

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

G-362
Balboa Ave

MICROFILMED

APR 16 1965

DIRECTIONS FOR USE OF TABLES

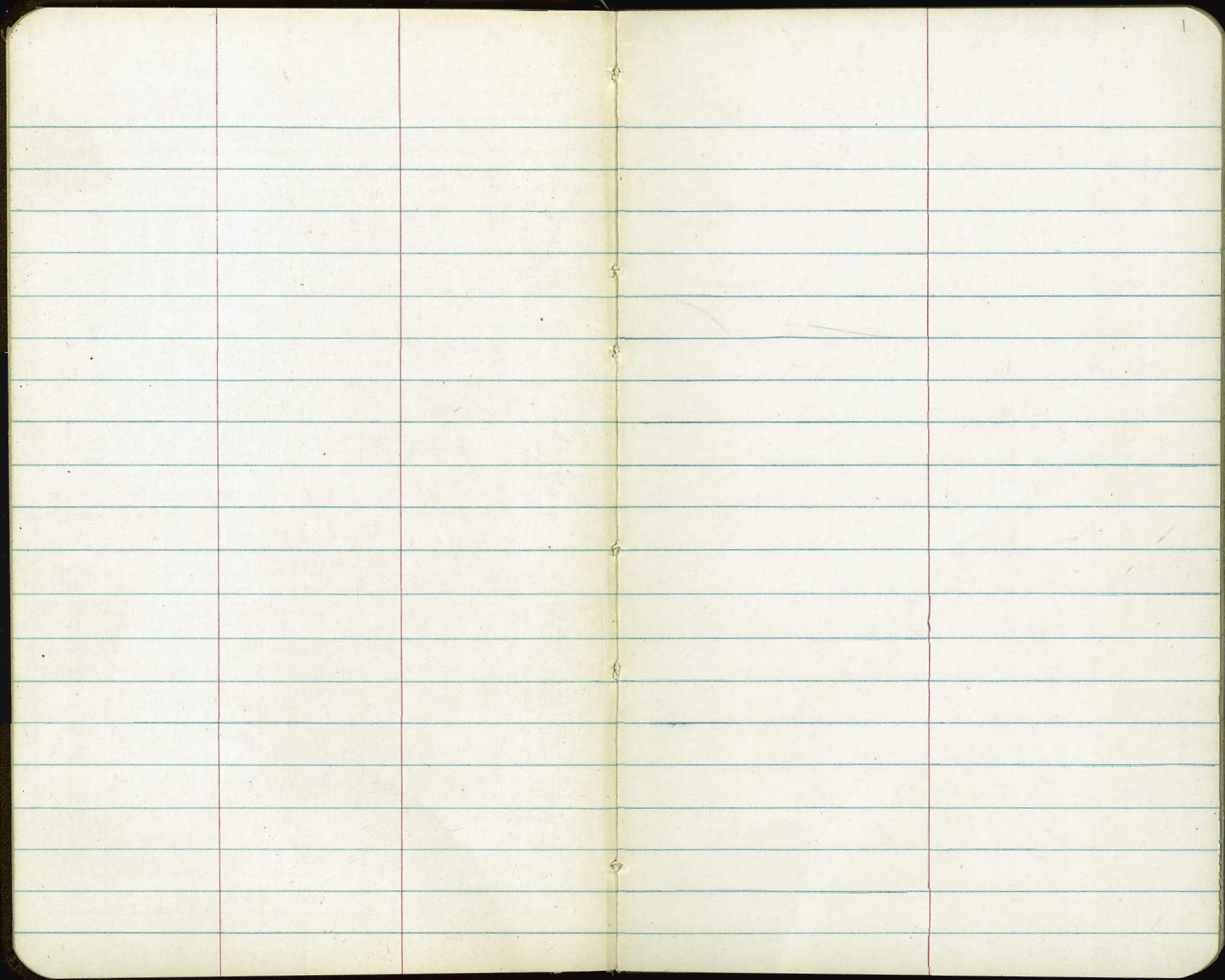
TABLE No. XIV

Distance of slope stake from side of shoulder
stake for any width roadway, slope 1 1/2 to 1.
If ground is nearly level, the cut or fill

IMPROVED TABLES
AND
INFORMATION

TABLE No. VII

To find tangent and external for curve of
any other degree, divide by degree of curve and
add constant found in column of corrections.
Degree of curve with a given length may be found
by dividing tangent (or external) by
tangent (or external) of 1 degree.
The distance from a point on the tangent to
the curve is very nearly the square of the tangent
length divided by four times the radius.



Curb Stakes - B-2 Curb in Center Island

Beg. at 15+09

w.o. 22104

2-23-56

7.0.

INDEXED

OCT 9 1956

2

Stakes Refer to gutter Line

North

South

15+09 = 1' Rad.	52.30	53.64 2.30	F 1.34	52.30	53.62 2.30	F 1.32
+19 = Avg.				53.08	54.13 3.08	F 1.05
+25	53.56	54.56 3.56	F 1.00	53.56	54.46 3.56	F 0.90
+50	55.64	56.02 5.64	F 0.38	55.64	55.92 64	F 0.28
+75	57.13	57.56 13	F 0.43	57.13	57.46 13	F 0.33
16 -	58.70	59.12 4.70	F 0.42	58.70	59.02 4.70	F 0.32
+25	60.51	60.70 51	F 0.19	60.51	60.60 51	F 0.09
+50	62.13	62.28 4.13	F 0.15	62.13	62.18 13	F 0.05
+75	64.12	63.84 4.12	C 0.28	64.09	63.76 4.12	C 0.33
17 -	65.51	65.38 51	C 0.13	65.54	65.35 54	C 0.19
+25	66.79	66.96 79	F 0.17	67.21	66.96 79	C 0.25
+50	68.65	68.58 65	C 0.07	68.35	68.58 35	F 0.23
+75	70.05	70.12 05	F 0.07	69.90	70.12 90	F 0.22
18 -	71.39	71.67 39	F 0.28	71.73	71.67 73	C 0.06
+25	72.28	73.24 28	F 0.96	73.36	73.24 36	C 0.12
+50	73.98	74.77 98	F 0.79	74.96	74.77 96	C 0.19
+75	75.87	76.27 87	F 0.40	76.09	76.27 09	F 0.18
19 -	77.59	77.73 59	F 0.14	77.56	77.73 56	F 0.17

T.P.

North

South

19 125	79.02	79.16 ₂	F 0.14
+50	80.24	80.53 ₂₄	F 0.29
+75	81.41	81.91 ₄₁	F 0.50
20 ~	82.71	83.24 ₂₇₁	F 0.53
+50	85.50	85.86 ₅₀	F 0.36
21 ~	88.07	88.48 ₀₇	F 0.41
+50	90.82	91.10 ₀₈₂	F 0.28
22 ~	93.53	93.72 ₅₃	F 0.19
+50 T.P.	96.00	96.34 ₀₀	F 0.34
23 ~	98.84	98.96 ₈₄	F 0.12
+20	99.79	100.01 ₉₇₉	F 0.22
+45	100.96	01.32 ₀₉₆	F 0.36
+70	02.29	02.63 ₂₉	F 0.34
24 -	04.11	04.26 ₁₁	F 0.15
+50	06.54	06.88 ₅₄	F 0.34
25 ~	09.53	09.50 ₅₃	C 0.03
+50	12.31	12.12 ₃₁	C 0.19
+60	12.26	12.58 ₂₆	F 0.32
+70 = i Rad.	12.10	13.15 ₂₁₀	F 1.05 ✓

79.17	79.16	C 0.01
80.41	80.53 ₄₁	F 0.12
81.74	81.91 ₇₄	F 0.17
82.90	83.24 ₂₉₀	F 0.34
85.49	85.86 ₄₉	F 0.37
88.13	88.48 ₁₃	F 0.35
90.82	91.10 ₀₈₂	F 0.28
93.55	93.72 ₅₅	F 0.17
96.45	96.34 ₄₅	C 0.11
98.73	98.96 ₇₃	F 0.23
99.81	100.01 ₉₈₁	F 0.20
101.05	01.41 ₁₀₅	F 0.36
02.29	02.69 ₂₉	F 0.40
04.11	04.26 ₁₁	F 0.15
06.54	06.88 ₅₄	F 0.34
09.53	09.50	C 0.03
12.31	12.12 ₃₁	C 0.19
12.10	13.17 ₂₁₀	F 1.07 ✓

Cont. on P. 5

Req. Stakes for "E" curb. - 3' N. of N. edge

New stakes - 3' S. of S. edge

4

Req.							
26 +50	16.20	16.28 ₂₀	F 0.08	15.73	16.28 _{5 13}	F 0.55	
+75	17.24	17.79 ₂₄	F 0.55	17.35	17.79 _{1 35}	F 0.44	
27 ~	18.03	19.29 _{8 63}	F 0.66	18.77	19.29 _{8 77}	F 0.52	
+25	19.02	20.77 ₀₂	F 0.75	20.38	20.77 ₃₈	F 0.39	
+50	21.51	22.25 _{1 51}	F 0.74	21.90	22.25 _{1 90}	F 0.35	
+75	22.92	23.73 _{2 92}	F 0.81	23.55	23.73 ₅₅	F 0.18	
28 -	24.45	25.20 _{4 45}	F 0.75	25.19	25.20 _{1 19}	F 0.01	
+25	26.02	26.70 ₀₂	F 0.68	26.68	26.70 ₆₈	F 0.02	
+50	27.45	28.26 _{1 45}	F 0.81	28.21	28.26 ₂₁	F 0.05	
+75	28.97	29.85 _{8 97}	F 0.88	29.59	29.85 ₅₉	F 0.26	
29 -	30.69	31.50 _{0 69}	F 0.81	31.30	31.50 ₃₀	F 0.20	
+25	32.44	33.20 _{2 44}	F 0.76	33.05	33.20 ₀₅	F 0.15	
+50	34.00	34.94 ₀₀	F 0.94	34.69	34.94 ₆₉	F 0.25	
+75	35.68	36.71 _{5 68}	F 1.03	36.55	36.71 ₅₅	F 0.16	
30 ~		38.50		38.48	38.50	F 0.02	
+25 = end.		40.27		40.27	40.27	Grade	

Cont. from P. 3. curb stakes - Center Island.
 stakes - 3' from gut. line (if Room)

		North				South			
26 + 6.5 = 2' Rad.		17.98	18.09	F 0.71		17.38	18.15	F 0.77	
27 + 10.60 = PS. Rt Lane		21.03	20.48 ³³	C 0.55		20.79	20.50 ⁷⁹	C 0.29	
+ 39.83 = PS. Lt Lane		22.02	22.01	C 0.01					
+ 50		22.55	22.54 ⁵⁵	C 0.01	Lip cut	22.72	22.47 ⁷²	C 0.25	
+ 75		23.75	23.85	C 0.10		24.26	23.76 ⁴²⁶	C 0.50	
28 ~		25.44	25.16 ⁴⁴	C 0.28	-53	C 0.81	25.13	25.06 ¹³	C 0.07
+ 25		26.74	26.49 ⁷⁴	C 0.25	-53	C 0.78	26.63	26.45 ⁶³	C 0.18
+ 50		28.07	27.88 ⁸⁰⁷	C 0.19	-54	C 0.73	27.86	27.85 ⁸⁶	C 0.01
+ 75		29.46	29.31 ⁴⁶	C 0.15	-55	C 0.70	29.26	29.31 ²⁶	F 0.05
29 ~		30.69	30.79 ⁶⁹	F 0.10	-56	C 0.46	30.95	30.79 ⁹⁵	C 0.16
+ 25		32.40	32.32 ⁴⁰	C 0.08	-57	C 0.65	32.54	32.32 ⁵⁴	C 0.22
+ 50		34.26	33.90 ⁴²⁶	C 0.36	-58	C 0.94	34.22	33.90 ⁴²²	C 0.32
+ 75		35.66	35.51 ⁶⁶	C 0.15	-58	C 0.73	36.04	35.51 ⁶⁰⁴	C 0.53
30 ~		37.21	37.19 ²¹	C 0.02	-59	C 0.61	37.37	37.19 ³⁷	C 0.18
+ 25		38.94	38.88 ⁹⁴	C 0.06	-60	C 0.66	39.02	38.88 ⁹⁰²	C 0.14
+ 50		40.54	40.58	F 0.04		C 0.56	40.75	40.58 ⁷⁵	C 0.17
+ 75		42.18	42.27 ¹⁸	F 0.09		C 0.51	42.31	42.27 ³¹	C 0.04
31 ~		43.83	43.87 ⁸³	F 0.14		C 0.46	43.85	43.97 ⁸⁵	F 0.12
+ 25		45.57	45.61 ⁵⁷	F 0.04	-60	C 0.56	45.59	45.61 ⁵⁹	F 0.02

		N.		Cut to Lip		S.	
31 +50	47.17	47.35 ₁₇	F0.18	-60 C0.42	47.27	47.35 ₂₇	F0.08
+75	48.92	49.04 _{8.92}	F0.12	C0.48	49.06	49.04	C0.02
32 ~	50.66	50.74 ₆₆	F0.08	C0.52	50.77	50.74 ₇₇	C0.03
+25	52.18	52.43 ₁₈	F0.25	C0.35	52.30	52.43 ₃₀	F0.13
+50	53.91	54.13 _{3.91}	F0.22	C0.38	53.86	54.13 ₈₆	F0.27
+75	55.63	55.82 ₆₃	F0.19	C0.41	55.61	55.82 ₆₁	F0.21
33 ~	57.20	57.52 ₂₀	F0.32	C0.28	57.16	57.52 ₁₆	F0.36
+25	58.93	59.21 _{8.93}	F0.28	C0.32	58.90	59.21 ₉₀	F0.31
+50	60.61	60.91 ₆₁	F0.30	C0.30	60.54	60.91 ₅₄	F0.37
+75	62.25	62.60 ₂₅	F0.35	-60 C0.25	62.26	62.60 ₂₆	F0.34
34 ~	64.26	64.30 ₂₆	F0.04	-59 C0.55	63.94	64.30 ₉₄	F0.36
+25	66.04	65.99 _{6.04}	C0.05	-59 C0.64	65.92	65.99 ₉₂	F0.07
+50	67.82	67.68 ₈₂	C0.14	-58 C0.72	67.58	67.67 ₅₈	F0.09
+75	69.25	69.38 ₂₅	F0.13	-57 C0.44	69.06	69.36 ₀₆	F0.30
35 ~	70.56	71.09 ₅₆	F0.53	-56 C0.03	70.37	71.04 ₃₇	F0.47
+25 <small>= Beg 2 BK</small>	72.37	72.80 ₃₇	F0.43	-55 C0.12	72.20	72.72 ₂₀	F0.52
+50	74.16	74.53 ₁₆	F0.37	-54 C0.17	73.88	74.40 ₈₈	F0.52
+75	75.90	76.25 ₉₀	F0.35	-54 C0.19	75.70	76.07 ₇₀	F0.37
36 ~	77.64	77.98 ₆₄	F0.34	-53 C0.19	77.29	77.76 ₂₉	F0.47
+25	79.16	79.70 ₁₆	F0.54	-53 F0.01	78.86	79.44 ₈₆	F0.58

BM - 199.13 = □ on Inlet. 39+25 - Rt.

BM. 229.38 - stab. - 43+85 - Rt.

BM. 236.42 = □ on Inlet - 44+75 - Rt.

N.

S

36+50 80.83 81.42₈₃ F0.59

80.44 81.13₄₄ F0.69

+75 82.48 83.13₂₄₈ F0.65

82.28 82.81₂₈ F0.53

37- 84.13 84.84₁₃ F0.71

83.87 84.63₃₈₇ F0.76

+25 85.81 86.47₅₈₁ F0.66

85.81 86.32₅₈₁ F0.51

#50 87.23 88.02₇₂₃ F0.79

Req. Level

88.02

38- 90.50 91.40₅₀ F0.90

91.40

+50 94.02 94.79₀₂ F0.77

94.79

39- 97.72 98.18₇₇₂ F0.46

98.18

+50 00.89 201.57₀₈₉ F0.68

01.57

40- 04.47 04.96₄₇ F0.49

04.96

+50 07.91 08.35₇₉₁ F0.44

08.35

41- 11.04 11.74₀₄ F0.70

11.74

+50 14.36 15.12₄₃₆ F0.76

15.12

42- 17.82 18.51₇₈₂ F0.69

18.51

+50 21.35 21.90₃₅ F0.55

21.90

43- 24.81 25.29₄₈₁ F0.48

25.29

+50 28.19 28.68₁₉ F0.49

28.68

44- 31.55 32.07₁₅₅ F0.52

32.07

+50 34.89 35.45₄₈₉ F0.56

35.45

242 22 = stub.

45+75 - Rt

N

45 ~	38.28	38.84 ₂₈	F0.56
+50	41.76	42.23 ₁₇₆	F0.47
46 P	45.10	45.62 ₁₀	F0.52
+50	48.43	49.01 ₈₄₃	F0.58
+75	49.96	50.70 ₉₉₆	F0.74
47 ~	51.71	52.39 ₇₁₁	F0.68
+25	53.54	54.08 ₃₅₄	F0.54
+50	56.25	55.78 ₂₅	F0.53
+75	56.91	57.47 ₆₉₁	F0.56
48 ~	58.62	59.17 ₈₆₂	F0.55
+25	60.52	60.86 ₅₂	F0.34
+50	62.21	62.55 ₂₁	F0.34
+75	64.02	64.25 ₀₂	F0.23
49 ~	65.70	65.95 ₇₀	F0.25
+25	67.55	67.65 ₅₅	F0.10
+50	69.12	69.35 ₁₂	F0.23
+75	70.24	71.04 ₂₄	F0.80
50 ~	72.06	72.73 ₀₆	F0.67
+25	74.57	74.42 ₅₇	C0.15

8

S

				38.84		
				42.23		
				45.62		
				49.01		
				50.70		
				51.73	52.39	F0.66
				53.55	54.08 ₃₅₅	F0.53 cut to Lip
				55.29	55.78 ₂₉	F0.49 C0.04
				56.88	57.47 ₆₈₈	F0.59 F0.05
				58.65	59.17 ₈₆₅	F0.52 C0.02
				60.53	60.86 ₅₃	F0.33 C0.22
				62.23	62.55 ₂₃	F0.32 C0.24
				63.93	64.25 ₃₉₃	F0.32 C0.24
				65.74	65.95 ₇₄	F0.21 C0.36
				67.57	67.65 ₅₇	F0.08 C0.49
				69.12	69.35 ₁₂	F0.23 C0.34
				70.21	71.04 ₂₁	F0.83 F0.26
				72.37	72.73 ₃₇	F0.36 C0.21
				74.38	74.42 ₃₈	F0.04 C0.53

Beg Cut to Lip - on S.

N

S.

Lip

50 +50	76.24	76.12 ²⁴ C 0.12	76.09 ⁻⁵⁷	76.12 ₀₉ F 0.03 C 0.54
+75	77.90	77.81 ⁹⁰ C 0.09	77.68	77.81 ₆₈ F 0.13 C 0.44
51 ~	79.41	79.50 ₇₁ F 0.09	79.34	79.50 ₃₄ F 0.16 C 0.41
+25	80.30	81.19 ₀₃₀ F 0.89	80.99	81.19 ₀₉₉ F 0.20 C 0.37
+50	82.77	82.89 ₇₇ F 0.12	82.66	82.89 ₆₆ F 0.23 C 0.34
+75	84.55	84.58 ₅₅ F 0.03	84.40	84.58 ₄₀ F 0.19 C 0.39
52 -	86.22	86.28 ₂₂ F 0.06	86.22	86.28 ₂₂ F 0.06 C 0.51
+25	87.71	87.97 ₇₁ F 0.26	87.75	87.97 ₇₅ F 0.22 C 0.35
+50	89.46	89.67 ₄₆ F 0.21	89.51	89.67 ₅₁ F 0.16 C 0.41
+75	91.35	91.36 F 0.01	91.39	91.36 C 0.03 C 0.60
53 -	93.02	93.02 G	93.15	93.02 ¹⁵ C 0.13 C 0.70
+25	94.90	94.58 ⁹⁰ C 0.32	94.71	94.58 ⁷¹ C 0.13 C 0.70
+50	96.25	96.06 ²⁵ C 0.19	96.16	96.06 ¹⁶ C 0.10 C 0.67
+75	97.65	97.45 ⁶⁵ C 0.20	97.41	97.45 ₄₁ F 0.04 C 0.53
54 ~	98.81	98.76 ⁸¹ C 0.05	98.66	98.76 ₆₆ F 0.10 C 0.47
+25	99.87	99.98 ₈₇ F 0.11	99.83	99.98 ₈₃ F 0.15 C 0.42
+50	00.86	3 01.11 ₀₈₆ F 0.25	00.74	01.11 ₇₄ F 0.37 C 0.20
+75	01.90	02.17 ₁₉₀ F 0.27	01.75 ⁵¹	02.17 ₁₅ F 0.42 C 0.15
55 ~	02.82	03.09 ₂₈₂ F 0.27	03.05	03.09 ₀₅ F 0.04 C 0.53

N.

55 +25'	03.84	04.00 ⁸⁴ F0.16
+50	04.71	04.79 ⁷¹ F0.08
+75'	05.53	05.51 ⁵³ C0.02
56 ~	06.24	06.13 ²⁴ C0.11
+25	06.70	06.68 C0.02
+50	07.63	07.15 ⁶³ C0.48
+75'	07.64	07.53 ⁶⁴ C0.11
57 ~	07.90	07.83 ⁹⁰ C0.07
5 +25'	07.91	08.04 ⁹¹ F0.13
Lt. Lane +39.35 = P.T.	07.51	08.12 ⁵¹ F0.61
+50	07.52	08.18 ⁵² F0.66
+75'	07.42	08.24 ⁴² F0.82
58 ~	07.62	08.20 ⁶² F0.58
+25	07.35	08.15 ³⁵ F0.80
+50	07.34	08.02 ³⁴ F0.68
+75	07.36	07.86 ³⁶ F0.50
59 ~	07.38	07.71 ³⁸ F0.33
+25	07.26	07.55 ²⁶ F0.29

see other side

S.

			-51		
			03.81	04.00	F0.19 C0.38
			-56	2.81	
			04.76	04.79	F0.03 C0.53
			-55	76	
			05.63	05.51 ⁶³	C0.17 C0.72
			-54	44	
			06.44	06.13	C0.31 C0.85
			-54	79	
			06.79	06.68	C0.11 C0.65
			-53	22	
End Lip Cut.			07.22	07.15 ²²	C0.07 C0.60
56 +75'					
Beg. Curve			07.48	07.54 ⁴⁸	F0.06
+87.50			07.59	07.71 ⁵⁹	F0.12
57 ~			07.80	07.86 ⁸⁰	F0.06
Rt. Lane +15.89 = P.T.			07.64	08.02 ⁶⁴	F0.38

Cont

North					
59 +36.74 = PC. on			07.01	07.49 ⁰¹	F0.48
+46.74 = 1 st Rad.			06.79	07.42 ⁷⁹	F0.63

Beg. Stakes for "H" Type Curb. 50+00

11

North

South

50+00	C0.04	74.8 ⁸⁶ ₂	74.86	74.6 ⁸⁶ ₅	C0.21	F0.05	70.98	70.93	70.8 ⁹³ ₁	C0.12
+25	C0.24	76.5 ⁷⁵ ₁	76.75	76.3 ⁷⁵ ₄	C0.41	C0.31	72.6 ⁹⁸ ₇	72.98	72.5 ⁹⁸ ₀	C0.48
+50	C0.16	78.2 ³⁷ ₁	78.37	78.0 ³⁷ ₄	C0.33	C0.20	74.5 ⁵⁷ ₇	74.57	74.2 ⁵⁷ ₀	C0.37
+75	C0.08	79.9 ⁹⁸ ₀	79.98	79.7 ⁹⁸ ₃	C0.25	C0.23	76.0 ²⁹ ₆	76.29	75.8 ²⁹ ₉	C0.40
51~	F0.11	81.5 ⁴⁸ ₉	81.48	81.4 ⁴⁸ ₂	C0.06	C0.27	77.7 ⁰² ₅	78.02	77.5 ⁰² ₈	C0.44
+25	C0.03	83.2 ⁴⁸ ₈	83.31	83.1 ³¹ ₁	C0.20	C0.15	79.4 ⁵⁹ ₄	79.59	79.2 ⁵⁹ ₇	C0.32
+50	F0.06	84.9 ⁹² ₈	84.92	84.8 ⁹² ₁	C0.11	C0.06	81.1 ²⁰ ₄	81.20	80.9 ²⁰ ₇	C0.23
+75	F0.32	86.6 ³⁵ ₇	86.35	86.5 ³⁵ ₀	F0.15	F0.15	82.8 ⁶⁸ ₃	82.68	82.6 ⁶⁸ ₆	C0.02
52~	F0.13	88.3 ²⁴ ₇	88.24	88.2 ²⁴ ₀	C0.04	F0.19	84.5 ³⁴ ₃	84.34	84.3 ³⁴ ₆	F0.02
+25	F0.08	90.0 ⁹⁸ ₆	89.98	89.8 ⁹⁸ ₉	C0.09	F0.02	86.2 ²⁰ ₂	86.20	86.0 ²⁰ ₅	C0.15
+50	F0.26	91.7 ⁵⁰ ₆	91.50	91.5 ⁵⁰ ₉	F0.09	C0.08	87.9 ⁰⁰ ₂	88.00	87.7 ⁰⁰ ₅	C0.25
+75	F0.31	93.4 ¹⁴ ₅	93.14	93.2 ¹⁴ ₈	F0.14	C0.22	89.6 ⁸³ ₁	89.83	89.4 ⁸³ ₄	C0.39
53~	F0.24	95.1 ⁴⁸ ₁	94.87	94.9 ⁴⁸ ₄	F0.07	C0.17	91.2 ⁴⁴ ₇	91.44	91.1 ⁴⁴ ₀	C0.34
+25	F0.22	96.6 ⁴⁵ ₇	96.45	96.5 ⁴⁵ ₀	F0.05	C0.17	92.8 ⁰⁰ ₃	93.00	92.6 ⁰⁰ ₆	C0.34
+50	F0.15	98.1 ⁸⁰ ₅	98.00	97.9 ⁸⁰ ₈	C0.02	C0.11	94.3 ⁴² ₁	94.42	94.1 ⁴² ₄	C0.28
+75	F0.13	99.5 ⁴¹ ₄	99.41	99.3 ⁴¹ ₇	C0.04	C0.24	95.7 ⁹⁴ ₀	95.94	95.5 ⁹⁴ ₃	C0.41
54~	F0.07	00.8 ⁷⁸ ₅	00.78	00.6 ⁷⁸ ₈	C0.10	C0.14	97.0 ¹⁵ ₁	97.15	96.8 ¹⁵ ₄	C0.31
+25	F0.09	02.0 ⁹⁸ ₇	01.98	01.9 ⁹⁸ ₀	C0.08	F0.02	98.2 ²¹ ₃	98.21	98.0 ²¹ ₆	C0.15

N

S.

54+50	F0.15	03.29 ₀₀	03.05 ⁰⁵	03.03 ⁰⁵	C0.02	C0.11	99.36 ⁴⁷	99.47	99.19 ⁴⁷	C0.28
+75'	F0.24	04.26 ₀₂	04.02 ⁹⁶	04.09 ₀₂	F0.07	C0.05	00.45 ⁵⁰	00.50	300.28 ⁵⁰	C0.22
55~	F0.23	05.19 ₄₉₀	04.99 ⁹⁶	05.02 ₄₉₉	F0.03	C0.09	01.45 ⁵⁴	01.54	01.28 ^{54 #11}	C0.26
+25'	F0.13	05.97 ₈₄	05.84	05.80	C0.04	C0.04	02.51	02.55	02.34 ^{55 +09}	C0.21
+50	C0.05	06.61	06.66	06.44 ⁶⁶	C0.22	F0.05	03.49	03.44	03.32 ^{44 +08}	C0.12
+75'	C0.29	07.10 ³⁹	07.39	06.93 ⁷³⁹	C0.46	C0.13	04.43 ⁵⁶	04.56	04.26 ^{56 +08}	C0.30
56~	C0.12	07.53 ⁶⁵	07.65	07.36 ⁶⁵	C0.29	C0.04	05.23	05.27	05.06 ^{27 +07}	C0.21
+25'	F0.21	07.86 ₆₅	07.65	07.69 ₆₈	F0.04	F0.03	05.89	05.86	05.72 ^{86 +08}	C0.14
+50	F0.18	08.11 ₇₉₃	07.93	07.94	F0.01	F0.05	06.43	06.38	06.26 ^{39 +08}	C0.12
+75'	F0.24	08.29 ₀₅	08.05	08.12 ₀₅	F0.07	F0.07	06.86 ₇₉	06.79	06.69 ^{79 +08}	C0.10
57~	F0.17	08.39 ₂₀	08.22	08.22	G	C0.17	07.17 ³⁴	07.34	07.00 ^{34 +08}	C0.34
+25'	C0.06	08.44 ₅₀	08.50	08.27 ⁵⁰	C0.23	F0.07	07.38	07.31	07.21 ^{31 +08}	C0.10
+50	C0.23	08.42 ⁶⁵	08.65	08.25 ⁶⁵	C0.40	F0.07	07.50	07.43	07.33 ^{43 +07}	C0.10
+75'	C0.27	08.35 ⁶²	08.62	08.18 ⁶²	C0.44	F0.20	07.61	07.41	07.44 ^{41 +07}	F0.03
58~	F0.03	08.25	08.22	08.08 ²²	C0.14	F0.38	07.57 ₁₉	07.19	07.40 ^{41 +07}	F0.21
+22.74 = PC. -4 Rad.	F0.38	08.17 ₇₉₉	07.79	08.00 ₇₉₉	F0.21	F0.52	07.52	07.00	07.35	F0.35
EC. =	F0.43	08.22 ₇₇₉	07.79	08.05 ₇₇₉	F0.26	F0.57	07.57	07.00	07.40 ₀	F0.40
+6' = Prop.	F0.39	08.34 ₇₉₅	07.95	08.17 ₇₉₅	F0.22	F0.44	07.69 ₂₅	07.25	07.52 ₂₅	F0.27

Beq. Stakes for Island Curb in
South of Balboa.

Clairmont Dr.

BM = 307.22
Disk - 58 + 5674 ft.

13

West.

East

Cut to S.	03.78	04.14 _{3 78}	F 0.36				
95 + 75 = 5' Rad.	03.78	04.18 _{3 78}	F 0.40	03.78	04.12 _{3 18}	F 0.34	
96 ~ 3' Bk.	03.86	04.38 _{3 86}	F 0.52	03.86	04.22 _{3 82}	F 0.40	
+20	04.01	04.55 ₀₁	F 0.54	+25	03.61	04.45 _{3 61}	F 0.84
+50	04.30	04.80 ₃₀	F 0.50		04.24	04.68 ₂₄	F 0.44
+75	04.51	05.01 ₅₁	F 0.50	+65	04.43	04.84 ₄₃	F 0.41
				+80	04.67	05.00 ₆₇	F 0.33
				+95	04.69	05.16 ₆₉	F 0.47
97 + 10 - Beq. 2' Bk	04.80	05.30 _{4 80}	F 0.50	04.80	05.32 _{4 80}	F 0.52	
+25	04.91	05.42 _{4 91}	F 0.51	04.91	05.44 _{4 91}	F 0.53	
+50	05.10	05.61 ₁₀	F 0.51	05.10	05.63 ₁₀	F 0.53	
+75	05.26	05.73 ₂₆	F 0.47	05.26	05.81 ₂₆	F 0.55	
98 ~	05.46	05.96 ₄₆	F 0.50	05.46	06.00 _{5 46}	F 0.54	
+25	05.71	06.20 _{5 71}	F 0.49	05.71	06.23 _{5 71}	F 0.52	
+50	05.93	06.45 _{5 93}	F 0.52	05.93	06.47 _{5 93}	F 0.54	
+75	06.13	06.62 ₁₃	F 0.49	06.13	06.66 ₁₃	F 0.53	
99 -	06.30	06.80 ₃₀	F 0.50	06.30	06.85 ₃₀	F 0.55	
+25	06.48	07.07 ₄₈	F 0.54	06.48	07.05 _{6 48}	F 0.57	
+39 - 2' Bk.	06.64	07.14 ₆₄	F 0.50				
+49 = 1' Rad.	06.71	07.24 ₇₁	F 0.53	Cont. on P. 14	06.71	07.25 _{6 71}	F 0.54

E Island - North.

		West		East
100+51 - 1' Rod.	07.58	08.14 7.58	Fo. 56 ✓ = level	
+61				07.72 08.22 Fo. 50 7.72
+80 - End.	07.91	08.45 7.91	Fo. 54	07.91 08.41 Fo. 50 7.91

Stakes for outside of 24' Lanes - 9" Thick - Stakes 2' Bk.

15

North = 24' Lt. of Base Line

South = 24' Rt. of Base

Top of Pavement Grade - 24' Lt. + Rt.

17~	64.20	64.37 ₂₀	F 0.17	63.60	64.37 ₃₆₀	F 0.77
+50	67.34	67.53 ₃₄	F 0.19	66.74	67.53 ₆₇₄	F 0.79
18~ = B.V.C.	70.53	70.69 ₅₃	F 0.16	70.38	70.69 ₃₈	F 0.31
+25	72.21	72.26 ₂₁	F 0.05	71.95	72.26 ₉₅	F 0.31
+50	73.81	73.79 ₈₁	C 0.02	73.44	73.79 ₄₄	F 0.35
+75	74.94	75.29 ₉₄	F 0.35	74.98	75.29 ₉₈	F 0.31
19~	76.56	76.75 ₅₆	F 0.19	76.43	76.75 ₄₃	F 0.32
+25	77.98	78.18 ₉₈	F 0.20	77.85	78.18 ₈₅	F 0.33
+50	79.33	79.57 ₃₃	F 0.24	79.26	79.57 ₂₆	F 0.31
+75	80.64	80.93 ₆₄	F 0.29	80.66	80.93 ₆₆	F 0.27
20~ = E.V.C.	82.02	82.26 ₀₂	F 0.24	82.02	82.26 ₀₂	F 0.24
+50	84.74	84.88 ₇₄	F 0.14	84.41	84.88 ₄₁	F 0.47
21~	87.17	87.50 ₁₇	F 0.33	87.17	87.50 ₁₇	F 0.33
+50	89.68	90.12 ₆₈	F 0.44	89.87	90.12 ₈₇	F 0.25
22~	92.51	92.74 ₅₁	F 0.23	92.38	92.74 ₃₈	F 0.36
+50	94.80	95.36 ₈₀	F 0.56	95.16	95.36 ₁₆	F 0.20
23~	97.34	97.98 ₃₄	F 0.64	97.90	97.98 ₉₀	F 0.08
+50	100.00	100.60 ₀₀	F 0.60	100.33	100.60 ₃₃	F 0.27

North

South

24~	02.55	03.22	F0.67
+50	04.95	05.84	F0.89
25~		08.46	
+50		11.08	
26~		13.70	
+50		16.32	
27~		18.94	
+25	19.61	20.25	F0.64
+50	20.93	21.56	F0.63
+75	22.30	22.83	F0.53
28~	23.45	24.06	F0.61
+25	24.51	25.27	F0.76
+50	25.73	26.50	F0.77
+75	27.57	27.77	F0.20
29~	28.91	29.08	F0.17
+25	30.24	30.44	F0.20
+50	31.66	31.86	F0.20
+75	33.14	33.31	F0.17
30~	34.63	34.88	F0.25

Meet E. curb.

02.78	03.22	F0.44
05.56	05.84	F0.28
08.27	08.46	F0.19
10.94	11.08	F0.14
13.99	13.70	C0.29
16.19	16.41	F0.22
	19.30	

North

South

End. E. curb.

30+25	36.13	36.49 ₁₃	F0.36				
+50	37.61	38.16 ₇₆	F0.55	41.90	42.00 ₉₀	F0.10	
+75	39.31	39.86 ₃₁	F0.55	43.72	43.70	C0.02	
31~	41.01	41.55 ₀₁	F0.54	45.43	45.39 ₄₃	C0.04	
+25	42.74	43.25 ₂₇	F0.51	47.06	47.09	F0.03	
+50	44.43	44.93 ₄₃	F0.50	48.65	48.77 ₆₅	F0.12	
+75	46.21	46.63 ₂₁	F0.42	50.27	50.47 ₂₇	F0.20	
32-	47.85	48.32 ₈₅	F0.47	52.15	52.16	F0.01	
+25	49.70	50.02 ₇₀	F0.32	53.77	53.86 ₇₇	F0.09	
+50	51.41	51.71 ₄₁	F0.30	55.49	55.55 ₄₉	F0.06	
+75	52.33	53.41 ₂₃	F1.08	57.01	57.25 ₀₁	F0.24	
33-	54.73	55.10 ₄₇	F0.37	58.79	58.94 ₇₉	F0.15	
+25	56.40	56.80 ₄₀	F0.40	60.47	60.64 ₄₇	F0.17	
+50	58.01	58.49 ₀₁	F0.48	62.21	62.33 ₂₁	F0.12	
+75	59.61	60.18 ₆₁	F0.57	63.93	64.02 ₉₃	F0.09	
34~	61.41	61.92 ₄₁	F0.51	65.72	65.68 ₇₂	C0.04	
+25	63.24	63.69 ₂₄	F0.45	67.10	67.29 ₁₀	F0.19	
+50	65.06	65.50 ₀₆	F0.44	68.58	68.85 ₅₈	F0.27	
+75	67.00	67.36 ₀₀	F0.36	70.38	70.38	Gr.	

North

South

35 ~	68.98	69.24 ₉₈	F0.26
+25	70.82	71.11 ₈₂	F0.29
+50	72.62	73.01 ₆₂	F0.39
+75	74.52	74.90 ₅₂	F0.38
36 ~	76.43	76.78 ₄₃	F0.35
+25	78.35	78.62 ₃₅	F0.27
+50	79.95	80.41 ₉₅	F0.46
+75	81.59	82.15 ₅₉	F0.56
37 ~	83.26	83.86 ₂₆	F0.60
+25	85.06	85.49 ₀₆	F0.43
+50	86.55	87.04 ₅₅	F0.49
38 ~	89.84	90.42 ₈₄	F0.58
+50	93.19	93.81 ₁₉	F0.62
39 ~	96.73	97.20 ₇₃	F0.47
+50	00.13	200.59 ₁₃	F0.46
40 ~	03.82	03.98 ₈₂	F0.16
+50	07.09	07.37 ₀₉	F0.28
41 ~	10.18	10.76 ₁₈	F0.58
+50	13.55	14.14 ₅₅	F0.59

71.79	71.89	F0.10
73.35	73.41 ₃₅	F0.06
74.78	74.92 ₇₈	F0.14
76.32	76.42 ₃₂	F0.10
77.83	77.95 ₈₃	F0.12
79.16	79.46 ₁₆	F0.30
80.71	80.98 ₇₁	F0.27
82.30	82.50 ₃₀	F0.20
83.87	84.15 ₈₇	F0.28
85.39	85.67 ₃₉	F0.28
86.86	87.23 ₈₆	F0.37
89.94	90.44 ₉₄	F0.50
93.40	93.81 ₄₀	F0.41
96.75	97.20 ₇₅	F0.45
00.17	00.59 ₁₇	F0.42
03.74	03.98 ₇₄	F0.24
07.23	07.37 ₂₃	F0.14
10.37	10.76 ₃₇	F0.39
13.71	14.14 ₇₁	F0.43

		North		South	
42~	17.21	17.53 ₂₁	F0.32	16.99	17.53 F0.54
+50	20.58	20.92 ₅₈	F0.34	20.59	20.92 ₅₉ F0.33
43~	23.89	24.31 ₈₉	F0.42	23.90	24.31 ₉₀ F0.41
+50	27.05	27.70 ₀₅	F0.65	27.15	27.70 ₁₅ F0.55
44~	30.14	31.09 ₁₄	F0.95	30.53	31.09 ₅₃ F0.56
+50	33.90	34.47 ₉₀	F0.57	34.03	34.47 ₀₃ F0.44
45~	37.44	37.86 ₄₄	F0.42	37.77	37.86 ₇₇ F0.09
+50	40.95	41.25 ₉₅	F0.30	40.99	41.25 ₉₉ F0.26
46~	44.38	44.66 ₃₈	F0.28	44.12	44.64 ₁₂ F0.52
+50 - T.P.	48.05	48.22 ₀₅	F0.17	47.47	48.03 ₄₇ F0.56
+75	49.94	50.06 ₉₄	F0.12	49.36	49.72 ₃₆ F0.36
47~	51.84	51.92 ₈₄	F0.08	51.01	51.41 ₀₁ F0.40
+25	53.62	53.78 ₆₂	F0.16	52.55	53.07 ₅₅ F0.52
+50	55.49	55.64 ₄₉	F0.15	54.13	54.70 ₁₃ F0.57
+75	57.41	57.50 ₄₁	F0.09	55.79	56.27 ₇₉ F0.48
48~	59.19	59.37 ₁₉	F0.18	57.54	57.82 ₅₄ F0.28
+25	61.11	61.22 ₁₁	F0.11	58.98	59.34 ₉₈ F0.36
+50	63.01	63.08 ₀₁	F0.07	60.35	60.87 ₃₅ F0.52
+75	64.90	64.94	F0.04	61.94	62.44 ₉₄ F0.50
49~	66.59	66.76 ₅₉	F0.17	63.58	64.06 ₅₈ F0.48

North

49+25'	68.45	68.55 ₄₈	F 0.10
+50	70.28	70.29	F 0.01
+75'	72.11	71.98 ²	C 0.13
50 - = Beg. "H" curbs	74.15	gut.	

South

65.13	65.72 ₁₃	F 0.59
67.02	67.41 ₀₂	F 0.39
68.22	69.10 ₈₂₂	F 0.88
	70.31	gut.

Morena approach - Slope Stakes.

5-2-56 7.0

Stake Elev. at Hinge Lt. Lane Sta. Rt. Lane Sta. Elev. at Hinge Stake

$\frac{-0.4}{5}$

$\frac{53.9}{c1.1}$
11 out. 52.8
38

22+50

B.C. 22+40.06

$\frac{+0.4}{5}$

$\frac{53.8}{F2.3}$
34 out. 56.1
38

Set 22 ~
E.C. = 21+90.06

21+95.15 ahead
21+98.10 = E.C.

53.9
36

$\frac{65.3}{c11.4}$
114 out. $\frac{+0.6}{5}$

$\frac{55.9}{F3.0}$
45 out.

58.9
36

+50

55.0
34

$\frac{67.5}{c12.5}$
125 out. $\frac{+0.4}{5}$

$\frac{+2.5}{5}$

$\frac{58.0}{F2.8}$
42 out.

60.8
33

21 ~

56.2
33

$\frac{67.6}{c11.4}$
114 out. $\frac{+0.1}{5}$

$\frac{-0.6}{5}$

$\frac{60.7}{F1.1}$
16 out.

61.8
31

+50

57.4
30.4

$\frac{61.5}{c4.1}$
41 out. $\frac{+0.5}{5}$

$\frac{+0.6}{5}$

$\frac{63.9}{c1.6}$
16 out.

62.3
25

20 ~ *

58.9
27.8

$\frac{60.7}{c1.8}$
18 out. $\frac{+0.5}{5}$

$\frac{-0.4}{5}$

$\frac{64.3}{c2.6}$
26 out.

61.7 - 62.4
23

19+65.87 = B.C.

19+57.24 = B.C.

60.2
25.3

$\frac{61.1}{c0.9}$
09 out. $\frac{+0.1}{5}$

$\frac{+0.4}{5}$

$\frac{62.5}{c1.1}$
23 out.

62.5
23

19+31.34

60.8
24

$\frac{61.4}{c0.6}$
06 out. $\frac{+0.4}{5}$

Stake Island curb. Morena + Balboa.

5-17-56

w.o.

22106

7.0.

Island # 1 = wly.

Island # 2 = Center.

1' Rad - S. end.				22+68.13 - M = 1 Rad. E.	51.37	52.33	F 0.96	+02
W.	48.61	49.47	F 0.86		51.37	52.26	F 0.89	-10
E.	48.61	49.59	F 0.98	22+83.24 - W.	51.13	51.80	F 0.67	-04
23+50 - Swos.	47.55	48.76	F 1.21	23~	50.37	51.16	F 0.79	-05
+75	46.85	47.99	F 1.14	+25	49.31	50.42	F 1.11	-06
24~	46.76	47.41	F 0.65	+50	48.93	50.12	F 1.19	-06
+07.26 = 1 Rad. - S.	46.71	47.26	F 0.55	+75	49.25	50.30	F 1.05	-06
13+89.92 - N.	46.71	47.34	F 0.63	+91.83 = 2 Rad. - W.	49.58	50.64	F 1.06	+03
14+00 - B.	46.99	47.77	F 0.78	E	49.58	50.84	F 1.26	+04
+25	47.45	48.85	F 1.40	23+75 - E.	49.45	50.80	F 1.35	+06
+32 = 1 Rad. - N.	47.90	49.17	F 1.27	+50	49.43	50.75	F 1.32	+06
23+94.83 M. E	47.90	49.20	F 1.30	+25	49.77	50.99	F 1.22	+06
+75	47.64	49.12	F 1.48	23~	50.36	51.47	F 1.11	+05
+50	47.76	49.26	F 1.50					

Island # 3 - Ely.

= 1' Rad.

23+61.77 SE OC - E.	50.54	51.79 0 56	F 1.23 ⁻⁰²
W.	50.54	51.74 0 56	F 1.18 ⁻⁰⁷
+75 - W.	50.69	51.69 0 69	F 1.00 ⁻⁰⁵
+94.28 = 1' Rad. W.	50.73	51.88 0 73	F 1.15 ⁻⁰²
N.	50.73	51.95 0 73	F 1.22 ⁺⁰²
15 ~ (B)	51.29	52.50 1 29	F 1.21 ⁺⁰²
+25	52.50	53.92 2 50	F 1.42 ⁺⁰²
+51.63 = 1' Rad. - N.	54.10	55.41 4 10	F 1.31 ⁺⁰²
- S	54.10	55.49 4 10	F 1.39 ⁻⁰⁶
24+25 - SE OC.	53.65	54.95 3 65	F 1.30 ⁻⁰⁷
24 ~	52.19	53.26 2 19	F 1.07 ⁻⁰⁸
+75	50.30	52.15 50.30	F 1.85 ⁻⁰⁴

Center Island - Balboa - 14+25 - W.

1' Rad.

14+25 - N	47.72	49.58 7 72	F 1.86 ⁻⁰²
S.	47.72	49.57 7 72	F 1.85 ⁻⁰²
+12.8 - S.	47.19	48.99 7 19	F 1.80 ⁻⁰²
14 ~ S.	46.67	48.45 6 67	F 1.78 ⁻⁰²
N.	46.67	48.49 6 67	F 1.82 ⁻⁰²

Beq. Stakes - "H" Curb. - Morena

From Lt. Lane ±

+25		+14	47.81	48.23 ⁸¹	F0.42	at PCC	48.96
23-	23' on S.W. OC.	+12	49.04 [✓]	49.59 ⁰⁴	F0.55		50.08
+75	35	+08	50.15 [✓]	51.04 ¹⁵	F0.89	50.81	51.56 ⁷⁵
+50	35	+04	52.95 [✓]	52.65 ⁹⁵	C0.30	51.89	52.64 ⁷⁵
+25	35	+01	54.64	54.35 ⁶⁴	C0.29	52.99	53.74 ⁷⁵
22~	34.89	-03	55.98	56.00 ⁹⁸	F0.02	54.07 [✓]	54.82 ⁷⁵
+75	33.91	-06	57.05 [✓]	57.49 ⁰⁵	F0.44	55.09 [✓]	55.84 ⁷⁵
+50	32.73	-09	58.49	58.79 ⁴⁹	F0.30	56.01 [✓]	56.76 ⁷⁵
+25	31.48	-11	59.70	59.86 ⁷⁰	F0.16	56.81 [✓]	57.56 ⁷⁵
21~	30.15	-13	60.54	60.68 ⁵⁴	F0.14	57.55 [✓]	58.30 ⁷⁵
+75	28.76	-13	61.19	61.28 ¹⁹	F0.09	58.17 [✓]	58.92 ⁷⁵
+50	27.29	-13	61.68	61.71 ⁶⁸	F0.03	58.78 [✓]	59.45 ⁷⁵
+25	25.77	-13	62.06	62.03 ⁰⁶	C0.03		59.95 ⁷⁵ +0.77
20~	24.19	-04	62.25	62.20 ²⁵	C0.05		60.43 ⁷⁵ +0.49
+75	23.09	-03	62.60	62.34 ⁶⁰	C0.26	60.21	60.96 ⁷⁵ +0.27
+50	22	+02	62.85	62.43 ⁸⁵	C0.42		61.51 ⁷⁵ +0.20 From Gr
+25	23	+0.8	62.94	62.51 ⁹⁴	C0.43	on ±	62.04 ⁷⁵ +0.18
19+00	23	+0.8	62.80	62.55 ⁸⁰	C0.25	12' Lt.	62.36 ⁷⁵ +.11

± to stake
3' BK

Top of cb.

Dist from ±

± Lt. lane
Subgrade

Top
Grade

+25	+12	45.44	45.63 44	F 0.19
24 - = end cb. outs	+13	45.80	46.10 5.80	F 0.30
+75	+14	46.28	46.64 .28	F 0.36
23 +50	+14	46.88	47.38 U 88	F 0.50

Stakes - Rt Lane Morena - 19+00 N.

+72.47 = BC.	51.83 ₇₅	51.08		51.28	52.05 _{1.28}	F 0.77
+50	52.64 ₇₅	51.89	26'	51.45	52.80 _{1.45}	F 1.35
+25	53.64 ₇₅	52.89 [✓]	26'	51.80	53.62 _{1.80}	F 1.82
+95.15 ah.						
21+98.10 - BK.	54.86 ₇₅	54.11 [✓]	26'	52.86	54.46 _{2.86}	F 1.60
+75	55.74 ₇₅	54.99 [✓]	25.49	53.77	55.01 _{3.77}	F 1.24
+50	56.62 ₇₅	55.87 [✓]	24.33	54.55	55.62 _{4.55}	F 1.07
+25	57.42 ₇₅	56.67 [✓]	23.14	55.27	56.25 _{5.27}	F 0.98
21 ~	58.15 ₇₅	57.40 [✓]	21.93	56.19	56.89 _{6.19}	F 0.70
+75	58.79 ₇₅	58.04 [✓]	20.69	57.25	57.54 _{7.25}	F 0.29
+50	59.35 ₇₅	58.60 [✓]	19.44	57.97	58.19 _{7.97}	F 0.22
+25	59.88		18.17	58.90	58.86 _{8.90}	C 0.04
20 ~			16.89	59.25	59.57 _{9.25}	F 0.32
+75			15.61	59.89	60.28 _{9.89}	F 0.39
+50			14.36	60.43	60.96 _{10.43}	F 0.53
19+31.34 = BC			14'	61.06	61.42 _{11.06}	F 0.36

Sta. = Φ Rt. Lane

Φ Top

Subgrade

Dist. from Φ to Stake
2 BK. of Edge of Soil Cement.

Loc. of Water Line E. of R.R.

0+00 = \pm Balboa = Sta. 13+40 - Ang. 78° Rt.

0+35 - 13.6' Lt. = (end Pipe) Top 35.45 = Below 72"

0+23.2 - 11.6' Lt. = \pm 45° flat. Top 35.61 = Below 72"

0+18.5 - 11' Lt. = \pm 45° Down. Top 39.30

0+01.5 - 9.8' Lt. = \pm 12" Gate Top Stem 41.94

0+00 = \pm Balboa

- 0+06 - 9.4' Lt. = \pm 16" Bell-Red. Top 40.0

- 0+10 - 9' Lt. = \pm 16" x 16" Tee Top 40.1

- 0+35 - 9.2' Lt. = By duct. Top 39.5

- 0+64.4 - 8.3' Lt. = \pm 16" Bell-Red. Top 40.7

- 0+70.2 - 8.1' Lt. = \pm 12" Gate - Top Stem = 43.27

Top of Pipe 24.63

0+39.7 = \pm 66" R.C. STORM DRAIN

0+34.3 Top 24.36

Top of Tee 23.0

0+00 = 16" x 8" Tee 3+66.2 Balboa Ave.

Loc. of Water Line - Pasadena St.

LOCATIONS OF WATER LINE

BALBOA -

			1+50 - 25.2 Rt. = end	46.17
			1+24 - 24.9 Rt	43.99
			0+98.5 - 24' Rt. = E	42.12
12+50		38.7	Top stem	42.02
12~	11 Rt	38.3	0+67.9 - 21.3' Rt. = E Tee to FH.	40.29
11+78.5	10.5' Rt. = E 16" x 16" x 8" T	38.3	0+38.5 17.5' Rt = 8" T - Hyd	40.30 Top
11+42 -	9.3' Rt.	38.4	0+15.5 13.3 Rt = BEND	39.40 Top
11+00	8.5 Rt.	37.9		
10+50	7.7 Rt.	36.75	0+00 = E BALBOA + W. LINE SANTA FE	
9+85	7.1 Rt.	35.9		
9+00 -	7.1 Rt.	34.9		TOP OF STEM 39.76
8+24.5 -	7.3 Rt. = E 16" x 6" Tee	33.43	0-02.5 8.7 Rt = E 8" GATE	
7+95	7.8 Rt	32.7	E = w.l. Santa Fe	TOP OF "T" 38.3
7~	7.5 Rt	31.4		OF E BALBOA
6~	7' Rt	28.2		BEGIN AT 16" x 16" x 8" T 11+78.5 10.5' Rt
5+07	7' Rt = E 16" x 16" x 8" T	24.9		8" WATER LINE ON SANTA FE ST.
4+50		21.8		
4+15	10.2 Rt	22.0		
3+66.2	11.3 Rt = E 16" x 16" x 8" T	23.0		
3~	13.5 Rt	21.0	13+34 - 12.6' Rt. = E 16" Tee	Top 40.1
1+95	16.6 Rt = E 16" x 16" x 6" T	19.5 = Top	13+25.6 - 13.5 Rt = E 11" Bend.	40.0
1+23	19 Rt = E 16"	16.8 = Top	13+06 13.5 Rt	39.6 = Top

Stakes for Water Services - Balboa

stakes 5' Bk. of cb. face - on Line	out from \pm	Top of cb. Grade
1+18.5 - N.	39.22' 22.51	22.30 ⁵¹ C 0.21
1+51 N	" 23.90	23.05 ⁹⁰ C 0.85
2+06.5 N	" 25.31	24.67 ^{5.31} C 0.64
5+63.5 N	" 32.06	32.60 ₀₆ F 0.54
6+19.5 N.	" 33.60	33.83 ₆₀ F 0.23
6+54.5 N	" 34.91	34.59 ⁹¹ C 0.32
7+77.5 S	" 38.44	37.19 ^{8.44} C 1.25
7+87 N	" 38.04	37.26 ^{8.04} C 0.78
10+52.5 N	40.27' 45.07	40.51 ^{5.07} C 4.56

5-28-56 - 70

	From \pm	Top cb.
12+00 - S	41.10 ^{cb.}	48.31 ^{8.31} C 6.18

Grades for Relaying 8" U.C. Sewer
+ incasment - at Santa Fe + Balboa

Beq incasment - 5' south. of Conn.

0-22 = M.H	I.E. =	30.67	
0+00 = Conn.	47.12	38.59	C 8.53

0+10 = Φ 72" - Top = 38.40

0+26.2	47.19	38.86	C 8.33
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0+52.4	47.85	39.25	C 8.60
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0+72.4 =	47.98	41.42	C 6.56
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End shown on 3890-A-D = at 0+60

Stake H Curb - SE. Cor. Balboa + Pac. Hwy.
For Service Sta.

BM. = Sig Base	21.37		
3' Bk. of gutter line			
Total Δ = 98° 55'			
Meet Exist cb. at Hwy	18.83	- 18.11	gt.
15° - 79° 08'	18.12	18.89	F 0.77
59° 21'	18.52	18.97	F 0.45
39° 34'	18.73	19.16	F 0.43
19° 47'	19.39	19.40	F 0.01
0° = E.C. = 0+57.47	19.72	19.73	F 0.01
0+75	20.06	20.35	F 0.29
1+00	20.61	21.21	F 0.60
+25 - 10' Bk.	21.67	22.07	F 0.40
+50 "	22.54	22.93	F 0.39
+75 "	23.31	23.75	F 0.44
+88 = Meet.	24.09		

Rough Grade Stakes - Balboa
Stakes - 45' out from \pm - Prop. Line - Top

- Pac. Hwy to Morena. 7-9-56 - 70
of slope (cut)

North

South

$\frac{42.20}{0+44.07} = P.C.$

20.9 20.80 C 0.1

1 ~ 22.2 22.1 C 0.1

+50 23.7 23.3 C 0.4

2 ~ 24.7 24.4 C 0.3

+50 25.9 25.6 C 0.3

3 ~ 26.8 26.8 G.

$3+37.83 = P.C.$ on 27.5 27.7 F 0.2

+50 ~~28.0~~

$4+40.81 = P.C.$ }
30.3 30.1 C 0.2

4 ~ 30.2 29.1^{0.2} C 1.1

Top cb. 29.19

+50 30.5 30.3^{0.5} C 0.2

29.8 30.3 F 0.5

5 ~ 31.2 31.4 F 0.2

30.9 31.5^{1.8} F 0.6

+50 32.1 32.5 F 0.4

32.6 32.7 F 0.1

6 ~ 33.1 33.6 F 0.5

33.7 33.9 F 0.2

+50 34.6 34.7 F 0.1

35.4 35.0 C 0.4

+80

7 ~ 36.4 35.8^{6.4} C 0.6

36.7 36.1^{6.7} C 0.6

+50 37.5 36.8^{7.5} C 0.7

37.7 37.0^{7.7} C 0.7

8 ~ 38.5 37.7^{8.5} C 0.8

38.9 37.9^{8.9} C 1.2

+50 41.3 38.4^{41.3} C 2.9

39.3 38.4^{9.3} C 0.9

	North				South		
9 ~	42.1	^{42.1} 38.9	C 3.2	41.0	^{41.0} 38.9	C 2.1	
+50	43.0	^{43.0} 39.5	C 3.5	42.1	^{2.5} 39.5	C 3.0	
10 ~	44.5	^{4.5} 40.1	C 4.4	43.3	^{3.3} 40.1	C 3.2	
+50	45.3	^{5.3} 40.7	C 4.6	43.9	^{3.9} 40.7	C 3.2	
11 ~	45.9	^{5.9} 41.3	C 4.6	44.8	^{4.8} 41.3	C 3.5	
+50.86 = 8' cb. Rad	46.9	^{6.9} 41.8	C 5.1	+50	^{5.9} 41.8	C 4.1	
12 ~				40.9	42.2	F 1.3	
				48.1	^{8.1} 42.2	C 5.9	

Curb Stakes - Balboa - From 0+00 - E.

7-19-56

70.

N.

Meet.

P.C.	19.59	19.83 ⁸⁹ F0.24
1/4	19.78	20.23 ⁷⁸ F0.45
1/2	20.17	20.35 ⁷⁹ F0.18
3/4	20.43	20.46 F0.03
E.C. = 0+42.20	20.71	20.60 C0.11
0+75		21.27 ⁹⁷
1 -	21.97	21.86 ⁷⁴ C0.11
+25	22.74	22.45 ⁷³ C0.29
+50	23.09	23.04 C0.05
+75	23.70	23.63 C0.07
2 -	24.44	24.22 ⁴⁴ C0.22
+25	25.25	24.81 ⁵²⁵ C0.44
+50	25.73	25.30 ⁷³ C0.43
+75	26.30	25.99 ⁶³⁰ C0.31
3 -	26.78	26.58 ⁷⁸ C0.20
+37.83 = P.C.	27.53	27.47 ⁵³ C0.06
1/3	27.71	27.74 F0.03

	N.				S.		
2/3	27.81	28.12 ¹² ₁₁	F0.31	got -28.31			
End	28.00	28.61	F0.61	4+04.29 = Meet.	29.18	29.03 ¹⁸	C0.15
				+25	29.36	29.55 ³⁶	F0.19
End.	30.36	30.40	F0.04	+50	30.01	30.10	F0.09
1/3	29.94	30.02 ¹⁴ ₁₄	F0.08	4+89.90	30.93	31.04 ¹⁴ ₁₃	F0.11
2/3	30.08	29.83 ¹⁷ ₁₇	C0.25	To Alley	30.93	31.20 ¹⁷ ₁₅	F0.27
EC. = 4+40.81	30.17	29.88 ¹⁷	C0.29	End.	30.91	31.38 ¹⁷ ₁₁	F0.47
+75	30.71	30.65 ²¹	C0.06	end.	32.01	32.08	F0.07
5 ~	31.30	31.20 ²	C0.10	To Alley	31.88	31.93	F0.05
+25	31.92	31.75 ¹²	C0.17	5+28.47 = PC.)	31.88	31.93	F0.05
+50	32.50	32.30	C0.20		32.36	32.44	F0.08
+75	32.87	32.85	C0.02		32.97	33.03	F0.06
6 ~	33.53	33.40	C0.13		33.77	33.62	C0.15
+25	34.12	33.95 ¹² ₄	C0.17		34.59	34.21 ⁵⁹	C0.38
+50	34.74	34.49 ⁷⁴	C0.25		34.90	34.77 ⁹⁰	C0.13
+75	35.17	35.03 ¹⁷	C0.14		35.40	35.32 ⁴⁰	C0.08
7 ~	35.72	35.55 ⁷²	C0.17		35.87	35.83	C0.04
+25	36.14	36.06	C0.08		36.46	36.31 ⁴⁶	C0.15
+50	36.66	36.56	C0.10		37.24	36.75 ⁷²⁴	C0.49

	N.				S.		
7+75	37.30	37.05 ⁵³	C0.25	37.33	37.15 ⁵³	C0.38	
8-	37.53	37.48 ⁸³	C0.05	37.83	37.51 ⁸³	C0.32	
+25	38.12	37.83 ⁸¹²	C0.29	CROSS ON VAULT 1 BK 39.39	37.83 ^{9.39}	C1.56	
+50	38.50	38.12 ⁵⁰	C0.38	38.49	38.12 ⁴⁹	C0.37	
+75	38.85	38.41 ⁸⁰	C0.44	38.74	38.41 ⁷⁴	C0.33	
9~	38.82	38.71 ⁸²	C0.11	38.92	38.71 ⁹²	C0.21	
+25	39.19	39.00	C0.19	39.08	39.00	C0.08	
+50	39.48	39.30 ⁺⁸	C0.18	39.14	39.30	F0.16	
+75	39.71	39.59 ⁷¹	C0.12	39.19	39.59 ¹⁴	F0.40	
10~	39.89	39.89	GRADE	39.84	39.89	F0.05	
+25	40.52	40.28 ⁵²	C0.24	40.03	40.28 ⁵³	F0.25	
+50	40.83	40.48 ⁸³	C0.35	40.47	40.48	F0.01	
+75	41.23	40.77 ¹²³	C0.46	41.07	40.77 ⁰⁷	C0.30	
11~	41.77	41.07 ⁷⁷	C0.70	41.39	41.07 ³⁹	C0.32	
+25	41.61	41.37 ¹⁶¹	C0.24	42.00	41.37 ²⁰⁰	C0.63	
+50.86 = P.C.	42.09	41.67 ²⁰⁹	C0.42	+50	41.66		
end.	45.70	42.15 ⁵⁷⁰	C3.55	C+32 N. ①	33.84	29.20	C4.64
				11+25 - P Sewer Lat ②	45.15	36.53	C8.62

Cont Next Page.

38
12

Rd

10+50

⁶⁵
40.48

+75

40.83 40⁸⁷.77

F 0.04

11~

41.30 41¹².07

C - 0.18

+25

41.81 41⁵¹.36

C 0.45

+50

41.57 41⁶⁶.66

F 0.15

+75

41.96 41.90

C 0.06

12~

42.54 42⁵⁷.13

C 0.41

+25

43.18 42⁵⁵.48

C 0.70

+50

43.40 42⁵⁰.95

C 0.45

+75

43.87 43⁸⁷.52

C 0.35

+92.48

44.42 43⁴².96

C 0.46

Curbs - N. side

N.E. Ret. Santa Fe

43.65 42³⁶⁵.10 C 1.55

P.C. = 11+95.5

42.57 42⁵⁷.03 C 0.54

12+25

42.65 42⁶⁵.53 C 0.12

+50

42.90 43²⁹⁰.03 F 0.13

+75

43.57 43⁵⁷.64 F 0.07

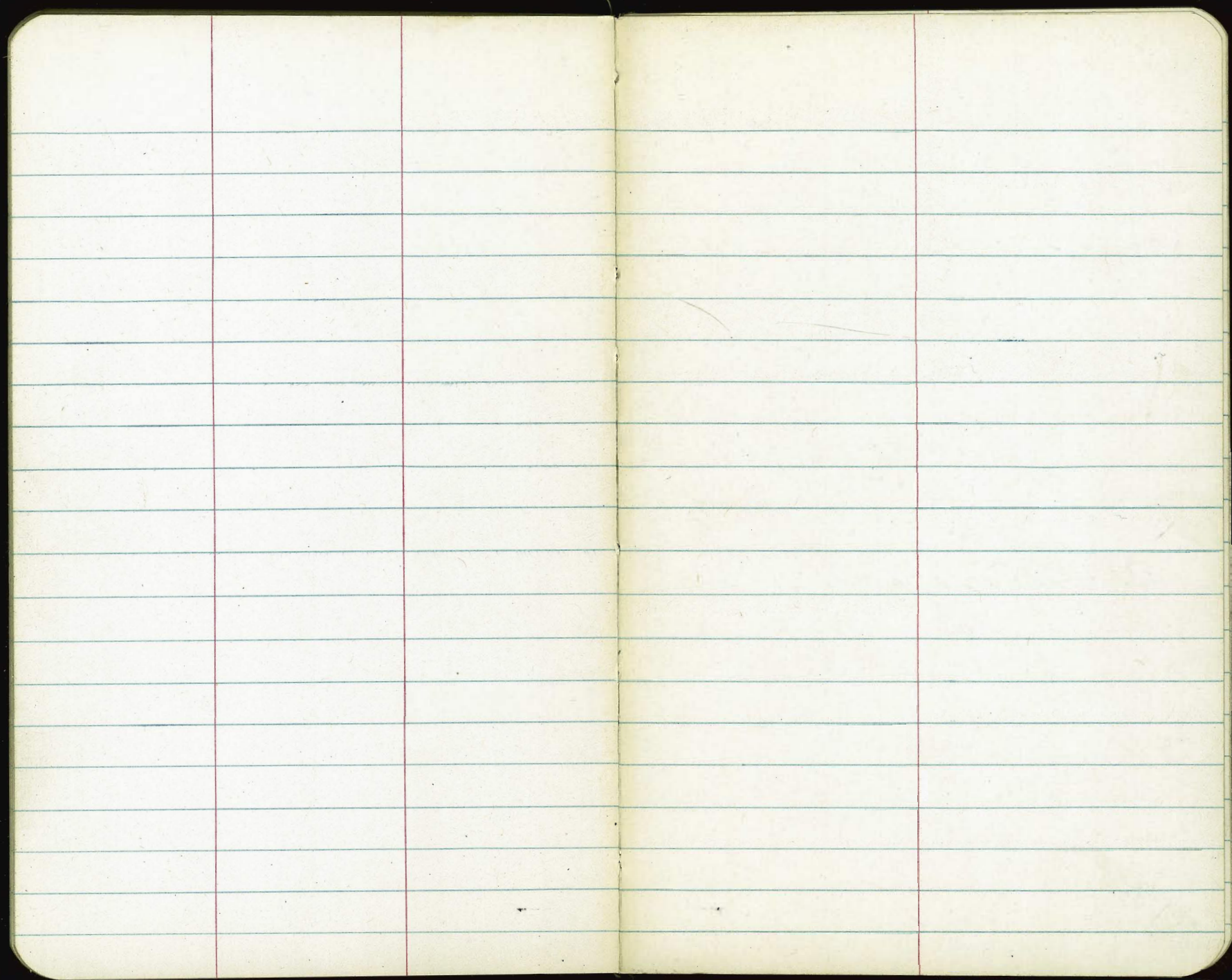
13~

45.15 44¹⁵.12 C 0.99

^{23.5}
+25 = Inlet

44.51 44⁵¹.85 F 0.34

Gutter Line = N.W. Cor.
of Box



Location of Strip of Conc. Base
 Pave to 6+80

	Dist. to gut N	width of strip	Dist. to gut S
0+50	31.0	17.0	20.0
1~	32.0	20.0	16.0
+50	31.5	19.0	17.5
2	32.0	17.0	19.0
+50	30.5	17.0	20.5
3~	28.5	17.5	22.0
+50	27.0	17.0	24.0
4~	24.5	19.5	25.0
+50	23.6	19.4	25.0
5~	24.2	15.8	28.0
+50	24.0	14.5	29.5
6~	24.1	15.4	28.5
+50	25.2	15.3	28.5
+54			28.0
+61.5	st		32.8
+77			32.8
84=end	24 Point		

Curb Stakes - \pm Island - 7+00 to E.
B-2 Curb.

End B-3				10+75-3.50	40.59	41.51	F 0.92
6+80 = Beg-B-2	35.39	36.15 _{5.39}	F 0.76	11 ~ 4'	40.80	41.80	F 1.00
7+00	35.27	36.56 _{5.27}	F 1.29	+25 - 4.50	40.80	42.10 _{0.80}	F 1.30
+12 = Brk. on N.	35.97	36.79 _{5.47}	F 0.82	+35 - 4.15-N	41.31	42.22 _{1.31}	F 0.91
+22 = 1' Rad.	36.13	36.98 _{.13}	F 0.85	3.15-S	41.31	42.24 _{1.31}	F 0.93
7+66 = 1' Rad.	36.99	37.73 _{6.74}	F 0.74	To N +44 - 1.88 N = 1' Rad.	41.30	42.35 _{1.30}	F 1.05
+76 = Brk. on S.	37.17	37.90 _{.17}	F 0.73	To S	41.30	42.37 _{1.36}	F 1.07
8 ~	37.44	38.24 _{1.44}	F 0.80				
+25	37.80	38.56 _{1.80}	F 0.76	10+75-3.50		41.51	
+50	37.80	38.85 _{1.80}	F 1.05	11 ~ 4'		41.80	
+75	38.36	39.14 _{8.36}	F 0.78	+25 4.50	41.37	42.10 _{1.37}	F 0.73
9 ~	38.71	39.44 _{8.71}	F 0.73	+35 4.15 N.	41.57	42.22 _{1.57}	F 0.65
+25	38.98	39.73 _{8.98}	F 0.75	3.15 S	41.57	42.24 _{1.57}	F 0.67
+50	39.14	40.03 _{9.14}	F 0.89	+44 1.88 N = 1' Rad	41.64	42.35 _{1.64}	F 0.91
+75 - 2' off.	39.45	40.32 _{1.45}	F 0.87		41.64	42.37	F 0.73
10 ~ 2.13	39.56	40.62 _{1.56}	F 1.06				
+25 - 2.50	39.96	40.92 _{1.96}	F 0.96	11 + 98 = 2 3/4" Rad \odot N			
+50 - 3'	40.24	41.21 _{0.24}	F 0.97		N 42.81	42.98 _{0.81}	F 0.17
					S 42.81	43.07 _{0.81}	F 0.21

12 ~ - 6°N

N
43.01

12 + 11 = 39.55

+ 25 = 6.5 N - 6'S

+ 50 = 7.0 N

+ 75 = 7.5 N

13 ~ - 8.0 N

+ 25 = 8.5 N

+ 50 = 9.0 N

+ 75 = 9.5 N

14 ~ - 7.95°N

+ 12.50

+ 25 - 2' N = 1' Rad.

42.70

42.74

43.21

43.89

44.69

45.51

46.14

47.07

48.78

43.40
2.70

43.88
2.74

44.44
3.21

45.09
3.89

45.81
4.69

46.61
5.51

47.49
6.14

48.49
7.07

49.58
8.78

F 0.71

F 1.14

F 1.23

F 1.20

F 1.12

F 1.10

F 1.35

F 1.42

F 0.80

PC.

4.55

S

43.13

42.96

43.52

44.02

44.86

45.40

45.73

46.66

47.37

48.04

48.78

43.21
1.3

43.41
2.71

43.88
3.2

44.45
0.2

45.09
4.86

45.81
4.0

46.61
3.73

47.49
6.0

48.45
7.37

48.99
0.4

49.57
8.78

F 0.08

F 0.45

F 0.36

F 0.43

F 0.23

F 0.41

F 0.88

F 0.83

F 1.08

F 0.95

F 0.79

Rough Grades - Santa Fe -

West.

East.

11 + 84.77 - Balboa - 0-30.83 - Santa Fe

8' Rad. on W. = cb. 46.8 ^{6.8} 42.2 C 4.6

8' Rad on E. 46.4 ^{cb. 6.4} 42.1 C 4.3

0 + 23.35

cb. to Balboa 46.4 ^{6.4} 42.0 C 4.4

47.9 ^{7.9} 42.3 C 5.6

+ 40

48.1 ^{8.1} 43.6 C 4.5

48.5 ^{8.5} 43.6 C 4.9

+ 60

47.9 ^{7.9} 45.2 C 2.7

48.6 ^{8.6} 45.2 C 3.4

+ 80

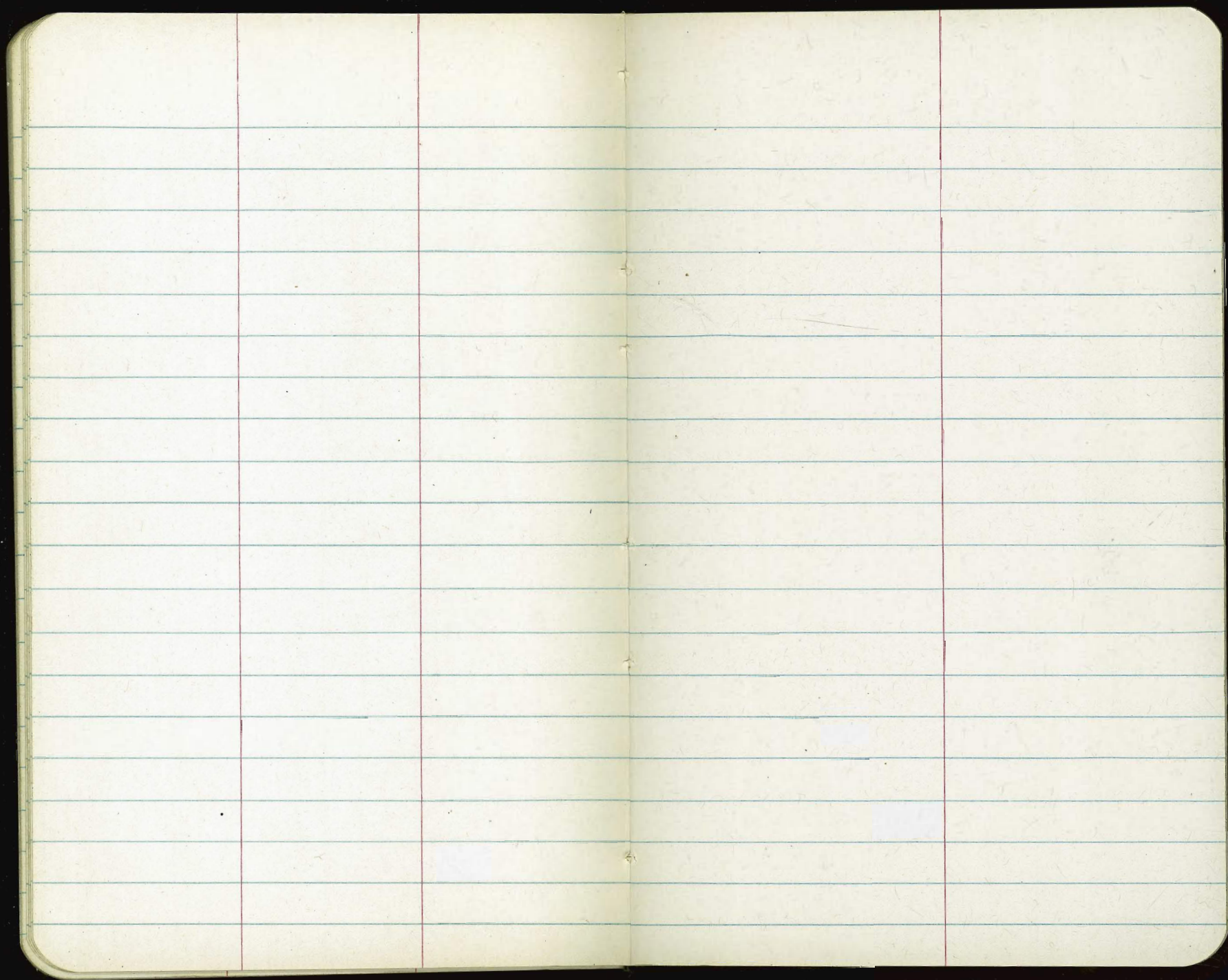
47.7 ^{7.7} 46.8 C 0.9

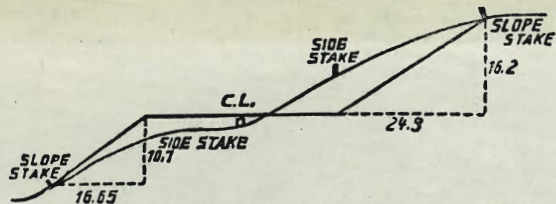
49.3 ^{9.3} 46.8 C 2.5

1 + 40 - on Prop.

51.7 51.6 C 0.1

50.7 ^{0.7} 51.6 F 0.9





DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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