

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.

MICROFILMED

APR 15 1965

Roberts

Cota  
Noor  
Morales  
10-14-53  
W.O.#31991

Grade Stakes Sewer Sunshine Gardens

2153-2154D  
FB 2206 pg 17

(5' offset upgrade  
every 50')

Castana - Escuela West.

This line moved 10' North, per H.Cole

Escuela - Castana to Nopal

6+12.41 MH #5  
Escuela  
Nopal

77.22  
68.45  
C 8.77

~~6+00~~

~~68.40~~

2+05 MH #3

7369  
68.28  
C 5.41

5+50

75.54  
68.20  
C 7.34

1+50

7318  
68.06  
C 5.12

5+00

74.63  
68.01  
C 6.62

1+00

7306  
67.86  
C 5.20

4+50

73.94  
67.82  
C 6.12

0+50

7317  
67.66  
C 5.51

4+00

73.64  
67.63  
C 6.01

0+00 MH #2  
3+55.00

Escuela  
Castana

7352  
67.46  
C 6.06  
C 6.01

3+55 MH #2

67.46

BN

78.13 spike SW Pole  
Nopal E Escuela

Sunshine  
Gardens

Naga / Escuela west

Easement Between Lots 109 & 110

7722 2

0+40 East DE

$$\begin{array}{r}
 84.55 \\
 \rightarrow 76.20 \\
 \hline
 C \quad 8.35
 \end{array}$$

0+80 West DE

$$\begin{array}{r}
 83.71 \\
 75.00 \\
 \hline
 C \quad 8.71
 \end{array}$$

2+04.83 DE

$$\begin{array}{r}
 7493 \\
 69.27 \\
 \hline
 C \quad 5.66
 \end{array}$$

0+40 west

$$\begin{array}{r}
 77.13 \\
 74.00 \\
 \hline
 C \quad 8.13
 \end{array}$$

1+44.83 MH #4

69.03

1+62.60 MH #11

$$\begin{array}{r}
 83.03 \\
 73.00 \\
 \hline
 C \quad 10.03
 \end{array}$$

1+00

$$\begin{array}{r}
 7494 \\
 68.85 \\
 \hline
 C \quad 6.09
 \end{array}$$

1+00

$$\begin{array}{r}
 77.00 \\
 71.47 \\
 \hline
 C \quad 5.53
 \end{array}$$

0+50

$$\begin{array}{r}
 7604 \\
 68.65 \\
 \hline
 C \quad 7.39
 \end{array}$$

0+50

$$\begin{array}{r}
 7530 \\
 70.25 \\
 \hline
 C \quad 5.05
 \end{array}$$

0+00 MH #5 Naga / Escuela

$$\begin{array}{r}
 68.45 \\
 \hline
 C \quad 8.77
 \end{array}$$

0+00 MH #4

$$\begin{array}{r}
 74.78 \\
 69.03 \\
 \hline
 C \quad 5.75
 \end{array}$$

Sunshine  
Gardens

Escuela - Nogal So. MH#10

Easement between Nogal & Cereza East of Escuela 3

cont'd Next Page

7+83.2 | MH#10 @

91.44  
81.94  
C 9.50

2+00

96.10  
90.94  
C 5.16

7+50

86.93  
79.32  
C 7.61

1+50

90.75  
87.34  
C 3.41

7+00

81.85  
75.37  
C 6.48

1+00

91.87  
85.54  
C 5.73

6+50

78.65  
71.42  
C 7.23

0+50

90.36  
83.74  
C 6.62

6+12.4 | MH#5 @

68.45  
C 8.77

0+00 MH#10

81.94  
C 9.50

Sunshine  
Gardens

Expenditure Cont'd

Nogal - Escuela to Haya

#

3+00

8948  
→ 84.05  
C 2.73

2+50

8718  
81.45  
C 5.73

2+00

8446  
78.85  
C 5.61

1+50

8200  
76.25  
C 5.75

1+00

8005  
73.65  
C 6.40

3+40 MH #9<sup>o</sup>

102.40  
94.18  
C 8.22

0+50

7859  
71.05  
C 7.54

3+00

99.82  
92.74  
C 7.08

0+00 MH #5

68.45  
C 8.77

Sunshine  
Gardens

Nogal - Haya to 49th

Nogal - Cont'd

5

6+43.23 MH #7

11378  
→ 108.85  
C 5.93

9+50

→ 12032  
11388  
C 6.44

6+00

11167  
104.74  
C 6.93

9+00

11940  
112.93  
C 6.47

5+50

10905  
100.91  
C 8.14

8+80.65 MH #8

11939  
112.56  
C 6.83 ✓

5+00

~~10608~~ 10601  
~~99.88~~ 9708  
C 9.00 C 8.93

8+50

11891  
111.98  
C 6.93

4+50

10127  
93.25  
C 8.04

8+00

11820  
111.03  
C 7.17 ✓

3+93.23

MH #6  
Nogal  
&  
Haya

9542  
88.90  
C 6.52

7+50

11761  
110.08  
C 7.53

3+50

9231  
86.65  
C 5.66

7+00

11617  
109.13  
C 7.04

Sunshine  
Gardens

Nogal Cont'd

Plantano - Exist MH to Castana  
Castana - Plantano East.

6

0+68 DE

7794  
67.08  
C 10.86

0+34

7971  
66.74  
C 12.97

↑  
0+00  
0+90 MH ~~1~~ / Castana  
Plantano

66.40  
C 13.34

10+15.65 DE.

12424  
115.12  
C 9.12

0+50

7496  
66.22  
C 8.74

10+00

12288  
114.83  
C 8.05

0+00 Exist  
MH

7416  
66.00 ~~sect~~  
C 8.16



Sunshine  
Gardens

Castana - Plantano to Escuela

✓ CEREZA M.H. #1A TO M.H. #12

7

90° 00.8'

7347  
67.46  
C 6.01

3+55 M.H. #2

7445  
67.24  
C 7.21

3+00

Note!  
1785.60  
11  
1+70-60 M.H. #12

105.62  
100.75  
C 4.87

7549  
67.04  
C 8.45

2+50

1+50

106.79  
100.67  
C 6.12

7612  
66.84  
C 9.28

2+00

1+00

110.49  
100.47  
C 10.02

7722  
66.64  
C 10.58

1+50

0+50

110.21  
100.27  
C 9.94

7974  
66.40  
C 13.34

0+90 M.H. #1

0+00 M.H. #1A

100.07

CEREZA M.H. #14 to M.H. #16

Sunshine  
Gardens

8

2+00

117.04  
108.31  
C 8.73

1+50

113.65  
106.71  
C 6.94

1+00

110.52  
105.11  
C 5.41

0+80 M.H. # 15

109.54  
104.47  
C 5.07

3+50 M.H. #16

121.15  
113.11  
C 8.04

0+50

108.70  
102.82  
C 5.88

3+00

121.38  
111.51  
C 9.87

M.H. #14 0+00

100.07

2+50

119.87  
109.91  
C 9.96

ESCUELA M.H.#10 TO M.H.#14

Sunshine  
Gardens

9+45.08 M.H.# 14

108.27  
100.07  
C 8.20

9+00

104.36  
95.02  
C 9.34

8+50

98.64  
89.42  
C 9.22

8+00

92.89  
83.82  
C 9.07

M.H.#10 7+83.21

81.94

Escuela - Cereza to Imperial

9

12+54.79 M.H.#17

12+00

11+50

11+00

10+50

10+00

9+45.08 M.H.#14

12134  
116.17  
C 5.17

12188  
113.33  
C 8.55

12231  
110.73  
C 11.58

12161  
108.13  
C 13.48

11903  
105.53  
C 13.50

11428  
102.93  
C 11.35

100.07

C 8.20

Sunshine  
S Gardens

Imperial - Escuda East

Easement Cereza south  
MH 12 to MH 13

16 + 14.79 MA #18 End

13642  
→ 131.29  
C 5.13

15 + 50

13394  
128.59  
C 5.37

0 + 40 DE on West

110.89  
106.20  
C 4.69

15 + 00

13195  
126.47  
C 5.48

0 + 00 to East & west  
||  
3 + 36.60 MA #13

114.87  
106.84  
C 8.83

14 + 50

129.78  
124.37  
C 5.41

3 + 00

112.50  
104.75  
C 7.75

14 + 00

127.75  
122.27  
C 5.48

2 + 50

111.45  
103.00  
C 8.45

13 + 50

12530  
120.17  
C 5.13

2 + 00

110.06  
101.25  
C 8.81

13 + 00

122.97  
118.07  
C 4.90

1785.60 MA #12  
||  
1770.60

100.75  
C 4.87

Note! Page 7

Sunshine  
Gardens

Easement Cont'd From Page 10

11

0780 DE on East

12090  
113.24  
C7.66

0740

11848  
109.64  
C8.84

0760 MH 13

106.04  
C8.83

Roberts  
Cota  
Moore  
Morales  
11-4-55

Grade

Stakes Alley Block 80, City Hts

1034/L  
FB2268 pg1

12

W.O.#32235

	33313	33332		33456	33477
	33273	33273		33431	33431
1+20	C0.40	C0.59	3+00	C0.25	C0.46
	33273	33340		33454	33460
	33246	33246		33405	33405
0+90	C0.27	C0.94	2+70	C0.49	C0.55
	33314	33294		33391	33434
	33220	33220		33378	33378
0+60EVC	C0.94	C0.74	2+40	C0.13	C0.56
	33228	33260		33408	33403
	33180	33180		33352	33352
0+40	C0.48	C0.80	2+10	C0.56	C0.51
	33217	33239		33394	33384
	33120	33120		33326	33326
0+20	C0.97	C1.19	1+80	C0.68	C0.58
	33050	33030		33363	33346
0+00				33299	33299
	33011	33070	1+50	C0.64	C0.47
0-12					
B.M		NWBP 330.55 Dwight & 41st			

			SL Landis	33129 329.50 C 1.79	329.80 ✓
4480 PVC	33669 335.90 C 0.79	33637 335.90 C 0.47	6400		
4450	33637 335.63 C 0.74	33624 335.63 C 0.61	* 5780	33572 331.80 C 3.92	336.24 331.90 C 4.34
4420	33590 335.37 C 0.53	33629 335.37 C 0.92	5760	33600 333.50 C 2.50	336.02 333.60 C 2.42
3490	33580 335.10 C 0.70	33582 335.10 C 0.72	5740	33627 334.60 C 1.67	336.29 334.70 C 1.59
3460	33529 334.84 C 0.45	33542 334.84 C 0.58	5720	33615 335.50 C 0.65	335.78 335.50 C 0.28
3430	33482 334.58 C 0.24	33569 334.58 C 1.11	5700	33607 335.90 C 0.17	336.21 335.90 C 0.31

Roberts  
Cota  
Moore  
Morales  
11-4-53  
WA# 31805

Grate Stakes Alley Block 55, City Hts.

10339L  
F.B. 2185 PJG

14

	32572	32508		33998	33949
1700	32520	32490		33879	33851
	C 0.52	C 0.18	2760	C 1.19	C 0.98

	32524 ↔ 32524	32550		33862	33713
0185	32480	32450		33715	33684
	C 0.44	C 1.00	2740 PVC	C 1.47	C 0.29

	32529	32561		33616	33441
0760	32516	32480		33450	33419
	C 0.19	C 0.81	2710	C 1.66	C 0.22

	32620	32606		33336	33192
0740	32588	32588		33185	33155
	F 0.32	C 0.18	1780	C 1.51	C 0.37

	32759	32770		33087	32
0720	32747	32749		32920	32891
	F 0.12	C 0.21	1750	C 1.67	32779
					F 1.12

	32838	32946		32655	32627
0700	32857			32620	32606
			1720 PVC	F 0.35	F 0.21

BM

NWBP  
34665 University of Wash.  
34724



3780	34423 34410 C 0.13	34415 34410 F 0.05	5140	34764 34727 C 0.27	34764 34728 C 0.36
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3760	34404 34361 C 0.43	34387 34357 C 0.30	5120 PK	34722 34700 C 0.22	34700 34696 F 0.04
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3740	34333 34298 C 0.35	34312 34290 C 0.22	4490	3 34640 34628 F 0.12	34661 34640 C 0.21
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3720	34280 34225 C 0.55	34231 34210 C 0.21	4460	34580 34351 F 0.29	34607 34586 C 0.27
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3700	34279 34134 C 1.45	34139 34113 C 0.26	4430	34536 34520 C 0.16	34520 34507 F 0.13
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2780	34204 34020 C 1.84	34182 33793 C 1.89	4400 EVC	34460 34458 F 0.02	34460 34439 F 0.21
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6700 S.L. University

346.42

346.55

5480

347.97  
346.97  
C 1.00

348.12  
347.04  
C 1.08

5460

348.05  
347.25  
C 0.80

348.05  
347.29  
C 0.76

Roberts  
Cota  
Moore  
Morales  
11-13-53  
W.O. # 62343

Grade Stakes For Sewer

In Wilton at Galveston

11022-L

No grades given on laterals.  
We only located them!

2+50

92.89  
84.39  
C 85.0 -

2+00

93.00  
84.19  
C 88.1 ✓

4+73 #MH3 DE.  
NEW LOCATION  
ADDED 50'

91.45  
85.28  
C 6.17

1+53 MH #2  
Plant Wrong

95.92  
84.00  
C 11.92 ✓

4+50

92.36  
85.19  
C 7.17 ✓

1+00

88.84  
79.19  
C 9.65 ✓

4+00

94.06  
84.99  
C 9.07 ✓

0+50

82.37  
74.66  
C 7.71 ✓

3+50

96.43  
84.79  
C 11.64 ✓

0+00 MH #1

76.94  
70.12  
C 6.82 ✓

3+00

74.68  
84.59  
C 10.09 ✓

BM

82.46 2xL SE Corner  
Galveston & Wilton

Roberts  
Cota  
Moore  
Morales  
11-27-52  
W.O.#31985

Rough Grades Redwood

Nile to Vancouver

FB2113  
10344A-L

3+19.88 W.L. Vancouver 300.50

300.00

18

1760

29900  
299.25  
FO.2

29911  
298.65  
C 0.4

3+00

30213  
300.70  
C 1.4

30115  
300.20  
C 1.0

2+80

30215  
300.83  
C 1.3

30130  
300.35  
C 1.0

1740 PK

29980  
298.60  
C 1.2

29901  
298.00  
C 1.0

2+60

30238  
300.90  
C 1.5

30115  
300.40  
C 0.8

1705

29909  
297.31  
C 1.8

29768  
296.64  
C 1.0

2+40

30205  
300.80  
C 1.3

30083  
300.25  
C 0.6

0+70

29743  
296.03  
C 1.4

29634  
295.27  
C 1.0

2+20

30155  
300.60  
C 1.0

30068  
300.00  
C 0.7

0+35

29632  
294.75  
C 1.5

29526  
293.90  
C 1.4

2+00

30136  
300.25  
C 1.1

30026  
299.65  
C 0.6

0+00

E.L. Nile

29347

292.53

1+80

30076  
299.80  
C 1.0

29980  
299.20  
C 0.6

BM

SUBT  
299.98 Vancouver  $\frac{1}{2}$  Redwood

Roberts  
12-1-53

Rough Grades Haller (No. of Redwood)  
10344L

19

4476.99

→ 308.50  
308.20  
F0.3

4459.99

308.36  
308.22  
GRADE

4430.04

308.09  
308.07  
GRADE

4400.10

308.50  
307.83  
C0.7

3475.18

308.95  
307.44  
C1.5

3460

End East  
Chon West

307.21

306.71  
305.65  
F1.1

3410

306.56  
305.77  
C0.6

Robert  
Cota  
Mount  
Nantes  
12-1-53  
W.O. #31985

## Curb Grades Redwood

Nile to Vancouver

10344A-L

FB2113 pg 44

				299.27
				298.99
				(0.28)
1425	298.05 297.85 F0.20	297.41 297.05 F0.36	EC Alloy Grade 299.59 298.41 F1.18	
				299.53
				297.13
				0.40
1400	297.13 296.82 F0.31	296.43 296.07 F0.36	P.L. Grade 146.994 299.73 299.60 F0.13	
				298.53
				298.22
				F0.31
0+75	296.22 295.84 F0.38	295.46 295.12 F0.34	P.L. Grade 174.994 299.13 298.92 F0.21	
				298.39
				298.06
				F0.33
0+50	295.30 294.95 F0.35	294.48 294.27 F0.21	EC Alloy Grade 298.99 298.59 F0.40	
				298.24
				298.06
				F0.18
0+25	294.37 294.18 F0.21	293.51 293.33 F0.18	St. Grade opp Red. Pt. 1446.94 Alloy Set. 298.84 298.59 F0.25	
				298.60
				298.00
				297.82
				F0.18
0+00 East Line Nile	298.47	292.53	1740 PVC 298.60 298.45 F0.15	
BM	299.98	SWBP Redwood & Vancouver		

2+80

→ 300.83 ←  
30055  
F0.28

→ 300.35 ←  
30015  
F0.20

2+60

300.90  
30058  
F0.32

300.40  
30002  
F0.38

2+40

300.80  
30041  
F0.39

300.25  
29989  
F0.36

2+20

300.60  
30025  
F0.35

300.00  
29973  
F0.27

2+00

300.25  
29994  
F0.31

29965  
29945  
F0.20

W. Line 300.50  
3+19.88 Vancouver

300.00

1+80

299.80  
29960  
F0.20

29944  
29920  
C0.24

St. Grade off. Rd.  
1772.74 Point

299.62  
29841  
F 1.21

29927  
29902  
C0.25

3+00 300.70  
30053  
F0.17

300.20  
29995  
F0.25

Roberts  
Cota  
Moore  
Morales  
12-21-53  
W.O. 21157

Grade stakes for Storm Drain  
off Ellison Place

5045-B FB-2261 pg 35

0+35.67 BRK

38236  
378.42  
C 3.94

0+32.19 BRK

38567  
379.62  
C 6.05

0+28.56 EC

38805  
380.17  
C 7.88

0+14.28 Midpoint

38852  
381.08  
C 7.44

1+46.34 Begin of  
conc. Apron

Grade by

Ridge will fit the Ground!

Inv. Fly Inlet

38711  
382.00  
C 5.11

Locally

Inv. Fly Inlet

38746  
382.86  
C 4.60

0+38.89 BRK

38010  
376.88  
C 3.22

BN

NWBP

389.59 Ellison E.V.M.V. 12r



Roberts  
Cota  
Moore  
Morales  
2-5-54

Rough Grade Stakes for Evergreen  
Newell to Poe  
10853L

96.71 Km NH

23

1780 PK

8157  
74.30  
C 7.3

4700

9583  
89.95  
C 5.9

1750

76.72  
69.54  
C 7.2

3750

9318  
87.70  
C 5.5

1700

6545  
61.69  
C 3.8

3700

8949  
85.45  
C 4.0

0750

61.17  
53.84  
C 7.3

2780 EVC

8748  
84.55  
C 2.9

0737.47 Ch. BC

5847  
57.88  
C 6.6

2760

8602  
83.42  
C 2.6

0700 Ely Line Nettell

5154  
47.85  
C 3.7

2720

8307  
79.78  
C 3.3

BM

40.67 SE Lot  
Newell &  
Evergreen

5705.06 &amp; Fee

105.8  
94.25  
C 11.5

4470

9955  
93.10  
C 6.4

4450

9780  
92.20  
C 5.6

Roberts

Grade Stakes For Water Line

Evergreen

Newell to Poe

25

3-11-37

Line from to Staff E.

4+50

913

88.20 ←

C 3.1

1+80 PIC

75.1

70.30

C 4.4

4+00

891

85.95

C 3.2

1+50

70.9

65.49

C 5.5

3+50

864

83.70

C 2.7

1+00

62.1

57.49

C 4.7

3+00

845

81.45

C 3.1

0+50

52.6

49.49

C 3.2

2+40 EVC

849

80.55

C 4.4

0+37.47

50.1

47.49

C 2.7

2+60

82.2

79.42

C 2.9

0+00 Newell

45.3

41.86

C 3.5

2+20

79.1

75.78

C 3.4

Poe  
Locust 200' towards Evergreen  
Water line

26

2+06END

463  
39.70  
C 6.6

1+56EVC

352  
28.70  
C 6.5

1+10

259  
21.01  
C 4.9

0+70

203  
15.53  
C 4.9

4+95END

941  
89.83  
C 4.3

0+30 PK

174  
12.00  
C 5.4

4+70

921  
89.10  
C 3.0

0+00 Locust

10.45

Roberts  
Cota  
Moore  
Morales  
2-15-54  
A.O. 32080

Grade Stakes Alley BR 9, City Hts Annex #1  
Landis to Wright man  
Between 45th & Highland

10801 L FB 2312-1

	34943			34935	
1+35	348.76	348.61		349.02	348.97
	C 0.67	348.37	2+85	C 0.33	348.20
		F 0.24			F 0.77
1+26.3 water Lt IN					
1+01.3 Sewer Lt 349.67 → 343.70 I.E. C 5.97	34960	34868			
1+10	348.71	348.55	2+60	348.97	348.91
	C 0.89	C 0.13		348.78	348.13
				F 0.19	F 0.78
0+85	34987	34918		34898	34951
	348.67	348.49	2+35	348.93	348.85
	C 1.20	C 0.69		C 0.05	C 0.66
0+60 BRK	35017	34875		34892	34929
	348.63	348.43	2+10	348.89	348.79
	C 1.54	C 0.32		C 0.03	C 0.50
0+30	35042	34914		34915 34960	34897
	348.47	348.16	1+85	349.34 348.84	348.73
	C 1.95	C 0.98		C 0.31 C 0.76	C 0.24
0+00	348.32	347.90		34911 34959	34908
N.W. Landis	✓		1+60	348.90 348.80	348.67
				C 0.31 C 0.79	C 0.41
BM		. NWBP 343.10 Landis @ 45th			

4+35	35000 349.43 C 0.55	349.85 349.33 348.85 F 0.48	5+60	35037 349.44 C 0.93	35019 349.24 C 0.95
4+10	34952 349.35 C 0.17	349.27 349.01 F 0.26	5+40	35020 349.63 C 0.57	34972 349.41 C 0.31
3+85	34944 349.25 C 0.19	349.21 348.85 F 0.36	5+20	35016 349.72 C 0.44	34962 349.50 C 0.12
3+60 BRK	34942 349.15 C 0.27	349.15 348.75 F 0.40	5+00 PKC	35050 349.72 C 0.78	34952 349.49 C 0.03
3+35	34934 349.10 C 0.24	349.09 348.08 F 1.01	4+85	34969 349.65 C 0.04	34956 349.45 C 0.11
3+10	349.06 348.97 F 0.09	349.03 348.35 F 0.68	4+60	35011 349.55 C 0.56	349.39 349.06 F 0.33

5796.56. S.L. Wrightson

348.93

348.73

5780

34976  
349.12  
C 0.64

35019  
~~348.98~~  
C 1.21

Roberts  
Cota  
Moore  
Morales  
2-24-54  
W.O.# 32324

Grade Stake for Curd

SAPPHIRE

Mission to Bayard

6804-2

30

6+90	101.54 10115 F0.39	100.84 10667 F0.17	
0+70	100.80 10056 F0.24	100.10 9990 F0.20	
0+50	99.95 9985 F0.10	99.25 9906 F0.19	
0+30	99.25 9921 F0.04	98.30 9800 F0.30	
0+10 BC PVL	98.90 9870 F0.20	97.70 9752 F0.18	
0+00 Mission Blvd. Exist. cbs.	98.24 ✓	97.42	
BM		NWBP 98.54 Mission & Sapphire	

	104.00 103.74 F0.26	103.30 103.08 F0.22
2+15		
1+90 EVC	103.76 103.32 F0.44	103.06 102.78 F0.28
1+70	103.52 10305 F0.47	102.82 102.55 F0.27
1+50	103.18 10283 F0.35	102.48 102.13 F0.36
1+30	102.73 102.23 F0.50	102.03 101.72 F0.31
1+10	102.19 101.80 F0.39	101.49 101.36 F0.13



3+42.8	105.31 104.78 F0.33	104.61 104.45 F0.16	4+82.8	108.00 107.88 F0.12	107.30 107.11 F0.19
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3+22.8	105.04 104.89 F0.15	104.34 104.15 F0.19	4+57.8	107.50 107.26 F0.24	106.80 106.59 F0.21
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3+02.8 PVC	104.82 104.71 F0.11	104.12 103.90 F0.22	4+32.8	107.00 106.72 F0.28	106.30 105.99 F0.31
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2+90	104.70 104.65 F0.05	104.00 103.57 F0.43	4+07.8	106.50 106.32 F0.18	105.80 105.66 F0.14
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2+65	104.47 104.37 F0.10	103.77 103.61 F0.16	3+82.8 EVC	106.00 105.91 F0.09	105.30 105.09 F0.21
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2+40	104.23 104.20 F0.03	103.53 103.36 F0.17	3+62.8	105.63 105.61 F0.02	104.73 104.66 F0.27
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6+07.8

111.72  
111.45  
F0.27111.02  
110.76  
F0.26

5+72.8 EVC

110.44  
110.31  
F0.13109.74  
109.64  
F0.10

5+52.8

109.75  
109.60  
F0.15109.05  
108.92  
F0.13

5+32.8

109.15  
109.01  
F0.14108.45  
108.36  
F0.09

5+12.8

108.63  
108.44  
F0.19107.93  
107.83  
F0.106+57.80 } Boyard (East)  
st. (Cbs) 113.50  
113.58112.40  
112.43

4+92.8 PVC

108.24  
108.19  
C0.05107.49  
107.33  
F0.166+42.80 CB  
BC113.00  
112.86  
F0.14112.30  
112.13  
F0.17

Roberts  
Cota  
Moore  
Morales  
2-25-54  
NO. #21212

Grade Stakes For Ditch, Wallace & Congress

33

5217B  
FB2074pg76

316  
1.82  
O+67.5 C 1.34

363  
1.97  
O+37.5 END CONC. C 1.66

369  
2.00  
O+32.5 BRK C 1.69

Top.  
Edge  
450 5.15  
352 352  
O+12.5 Nly Wallace F 0.98 F 1.63

470 4.90  
441 441  
O+00 E Wallace F 0.29 F 0.49

313  
1.67  
O+97.5 C 1.46  
cb 5.55  
541  
F 0.14

TRM

Top cb.  
5.55 cb RC, Ret  
Wallace &  
Congress

1+27.5 END  
275  
1.52  
C 1.23

Roberts  
Cota  
Moore  
Morales  
April 9, 1954  
W.D. # 32686

# Rough Grade Stakes Keating

Titus to Neale

10839L, 10840L & 10841L

1+10	1411 135.95 C 5.1	134.99 Grade	0+10 cb BC	134.6 132.50 C 2.1	1314 131.30 C 0.1
0+70 PVC	1431 135.40 C 7.7	134.58 130.4 F 4.2	0+00 EL Linnwood		
0+50	1420 134.80 C 7.2	134.00 130.1 F 3.9	♀ Linnwood		131.25 126.6 F 4.7
0+05 CB BC	137.6 133.45 C 4.2		Endcb 521 Linnwood	139.3 West 134.85 C 4.4	138.2 East 134.82 C 3.4
0+00 EL Titus		132.60 129.7 F 2.9	1+88.39 cb BC	135.2 133.68 C 1.5	134.9 133.7 C 1.2 132.25 130.8 F 1.5
♀ Titus		130.1 130.97 F 0.8	1+50 PVC	139.4 135.18 C 4.2	134.18 129.3 F 4.9

BM

131.35 5x3' 2dct Titus Keating NW corner

G. Guy

135.69  
F7.3 F9.0  
10.5 RP

2700.12 <sup>W.L.</sup> Pittsburgh

140.41

F12.0  
(19)

F13.6  
RP

End Cb  
on Guy

140.1  
West 136.75  
C 3.3

141.4  
East 138.15 Lt only  
C 3.2

179/12 Cb BC

1476  
141.20  
C 2.4

1790.10 Cb BC

135.96  
135.8  
F 0.2

134.96  
F 6.2 F 7.4  
(9.5) (RP)

1760

141.8  
140.58  
C 1.2

139.56  
F 7.4 F 9.2  
(11.5) RP

1760

135.35  
134.5  
F 0.9

134.35  
F 10.7 F 11.7  
(16) (RP)

1710

140.3  
139.33  
C 0.8

138.52  
137.9  
F 0.6

no slope

1710

135.0  
134.31  
C 0.7

133.31  
F 13.2 RP  
(18.5) F 14.4

0760

140.2  
138.48  
C 1.7

137.47  
131.3  
F 6.2

no slope

0760

136.1  
133.27  
C 2.8

132.27  
128.9  
F 3.4

0710 Cb BC

139.9  
137.43  
C 2.5

140.2  
137.4  
C 2.9

136.43  
F 9.3 F 10.2  
(19) RP

0700 EL Guy

1410  
1483  
147.65  
C 0.6

146.65  
F22.6 F24.1  
(34) RP

1675  
166.16  
0+09 cb BC  
C 1.3

0+70  
1466  
144.65  
C 2.0

143.65  
F15.7 F18.0  
(23.5) RP

E.L.  
0+00 Torrence

163.99  
1574  
F 6.6 STOP

0+30  
1446  
143.09  
C 1.5

142.09  
F16.1 F17.9  
(24.0) RP

164.7  
162.50  
Q Torrence C 2.4

160.77  
F14.5 F16.4  
(21.4) RP

0+09 cb BC  
1433  
142.67  
C 0.6

2+00.08 W.L. Torrence

157.55  
F19.4 F21.5  
(29) RP

0+00 E.L. Peterbaugh

141.46  
F15.9 F17.0  
(24) RP

1583  
157.63  
1+9/08 cb BC  
C 0.7

Q Peterbaugh  
1421  
141.93  
C 0.2

140.93  
F16.5 F18.8  
(24.2) RP

1750  
152.09  
1517  
F 0.4

157.09  
F21.3 F23.4  
(31.8) RP

	1919	
END Curb	189.60	189.10
2700.00 W.L. Neale	C 2.3	186.1
		F 3.0

	1902	
1780	188.20	187.20
	C 2.0	184.6
		F 2.6

	1882	
1750	184.34	182.34
	C 3.9	181.3
		F 2.0

	1800	
1700	177.89	176.89
	C 2.1	175.7
		F 1.2
		No 56px

	1740	
0750	171.44	170.44
	C 2.6	F 2.7 F 23.6
		325 RP

Roberts  
Moore  
Morales  
April 13, 1957  
W.O.# 31916

Rough Grade Stakes Udall  
Warrington Sly.

10000 L

0+95 Lt ① IN ~~96.53~~  
~~84.5~~  
~~120.3~~

1+70 Rt ⑥

~~96.53~~  
~~87.1~~  
~~94.3~~  
~~249~~  
C 6.94

0+70 Rt ④

~~96.53~~  
~~84.4~~  
~~121.3~~  
~~5.11~~  
C 7.02

1+70

~~96.53~~  
~~91.92~~  
~~4.61~~  
~~6.67~~  
F 2.06

~~96.53~~  
~~92.10~~  
~~4.43~~  
~~2.57~~  
C 1.86

0+50

~~96.53~~  
~~89.33~~  
~~7.20~~  
~~4.76~~  
C 2.44

~~96.53~~ 91.67  
~~88.71~~ 88.71  
~~7.82~~ 2.96  
~~4.86~~  
C 2.96

1+50

~~96.53~~  
~~91.72~~  
~~4.81~~  
~~6.74~~  
F 1.93

~~96.53~~  
~~91.81~~  
~~4.72~~  
~~3.09~~  
C 1.63

0+45 Lt ②

~~96.53~~  
~~84.2~~  
~~123.3~~  
~~4.91~~  
C 7.42

1+30

~~96.53~~  
~~91.38~~  
~~5.15~~  
~~6.31~~  
F 1.16

~~96.53~~  
~~91.36~~  
~~5.17~~  
~~3.50~~  
C 1.67

0+10 Rt ③

~~96.53~~  
~~82.3~~  
~~142.3~~  
~~7.16~~  
C 7.07

1+20 Rt ⑤

~~96.53~~  
~~86.1~~  
~~104.3~~  
~~3.78~~  
C 6.65

0+10 BC

~~96.53~~  
~~88.27~~  
~~8.26~~  
~~5.09~~  
C 3.17

~~96.53~~ 89.37  
~~87.34~~ 87.34  
~~9.17~~ C 2.02  
~~7.16~~  
C 2.03

1+10 PIC

~~96.53~~  
~~90.92~~  
~~5.61~~  
~~5.75~~  
F 0.14

~~96.53~~  
~~90.76~~  
~~5.77~~  
~~4.28~~  
C 1.49

BM 8.88 96.53 A Mon SW Cor, Udall Warrington 87.65

96.53 A



	9653	9653
2+705 E.H. Sing	91.28	91.54
	525	499
	536	

	9653	9653
2+30 EVC	91.77	92.04
	476	449
	654	272
	F 1.78	C 1.77

	9653	9653	9283
2+10	91.95	92.21	9221
	458	432	762
	656	289	
	F 1.98	C 1.63	

	9653	9653
1+90	92.00	92.23
	453	430
	641	274
	F 1.88	C 1.56

9653A

Roberts  
Cota.  
Moore  
Morales  
4-14-54  
NO # 52,000

Grade Sta Res For Water Line

Rhode Island  
Madison to Golden Gate

109652

2+75 END

40

1+30

34458  
336.31  
8.29  
5.57  
C 2.9

2+30

34458  
333.00 ←  
11.58  
7.88  
C 3.7  
34458  
334.19  
10.39  
7.23  
C 3.2

1+10

34458  
336.32  
8.26  
5.54  
C 2.7

2+24

water cut Lt

34458  
338.36 ch grade  
6.22  
5.77  
C 1.05

0+90

34458  
336.19  
8.39  
5.60  
C 2.8

1+99

water cut, Rt

34458  
ch. grade 337.09  
5.51  
5.22  
C 0.29

0+70 PVC

34458  
335.90  
8.68  
5.76  
C 2.9

1+90 EVC

34458  
335.32  
9.26  
6.28  
C 3.0

0+15. FH on Rt

ch grade 34458  
338.91  
5.67  
4.37  
C 1.3

1+70

34458  
335.20  
8.78  
6.01  
C 2.8

0+00 N2, Madison

34458  
337.59  
10.0  
6.45  
C 3.5

1+50

34458  
336.11  
8.47  
5.66

TBM

4.03

344.58

340.55 chinal +  
1+10 on Lt

C 2.8

Roberts  
Cota  
Moore  
Morales  
2-11-54  
W.O.# 32239

Slope Stakes Evergreen St.  
Newell to Poe

10853L

1750

77.66  
69.54  
8.12  
+2.2  
C10.2-27.3  
C10.4 (SRP)

6555  
69.42  
+2.97  
-6.1  
F10.0 P.L.  
No Slope

3700

2780 EVK

T.P.

12.44

77.66 X

0.33

65.22

1700

6555  
61.69  
3.86  
+8.2  
C12.1 (29.1)  
C14.7 (SRP)

6555  
61.28  
4.27  
12.3  
F8.6 P.L.  
no Slope

2760

1:1

1 1/2:1

0750

6555  
53.84  
11.71  
2.4  
C9.3-26.2  
C10.1 (SRP)

6555  
53.14  
12.41  
19.7  
F7.3  
no P.L. no slope

2720

T.P.  
BN

12.80  
12.14

65.55 X  
52.81 A

206

52.75  
40.67

0737.4706 EC

5335  
51.88  
1.47  
+9.1  
C10.6  
27.6 from Q  
5 SRP C11.2

5335  
51.70  
2.25  
2.6  
F0.3  
17 from Q  
F6.4 at P.L.  
no Slope

T.P. 11.64 89.01 X

1780 PVC

0700 EL Newell

BN

12.68

53.35 X

40.67 SELECT  
European Newell

41

89.01  
85.45  
3.56  
+1.2  
C4.8 (21.8)  
C6.2 SRP

89.01  
85.45 ←  
3.56  
18.9  
F15.2 (40.0)  
F16.5 (SRP)

89.01  
84.55  
4.46  
10  
C3.5 (20.5)  
C5.0 (SRP)

89.01  
84.55  
4.46  
18.6  
F14.1 - (38.3)  
F15.8 (SRP)

89.01  
83.42  
5.59  
2.6  
C3.0 - (20)  
C4.6 (SRP)

89.01  
83.42  
5.59  
19.6  
F14.0 (38.0)  
F15.4 (SRP)

89.01  
79.78  
9.23  
5.3  
C3.9 (21)  
C5.4 (SRP)

89.01  
79.78  
9.23  
18.2  
F9.0 - (30.5)  
F11.1 (SRP)

0.29 77.37  
77.66  
74.30  
3.36  
+6.2 (26.5)  
C9.6 (SRP)  
C9.8 (SRP)

77.66  
74.30  
3.36  
9.7  
F.63 - (26.5)  
F7.8 (SRP)

5+05.66 & Poe

(26)

9838  
→ 94.25  
4.13  
128  
C16.9 (40.9)  
C18.2 (5RP)

9838  
94.25  
4.13  
130  
F8.9 (37.4)  
F10.9 (5RP)

4+70 G W2 Poe

(15)

9838  
93.10  
5.28  
+57  
C11.0 (28)  
C12.2 (5RP)

9838  
93.10  
5.28  
F0.7 (18.0)  
F2.3 (5RP)

4+50

9838  
92.20  
6.18  
+34  
C9.6 - (26.6)  
C11.2 (5RP)

9838  
92.20  
6.18  
142  
F8.0 - (28.2)  
F8.9 (4RP)

4+00

9838  
89.95  
3.43  
01  
C8.3 (25.3)  
C9.9 (5RP)

9838  
89.95  
3.43  
170  
F8.6 (29.9)  
F10.3 (5RP)

T.P.

1100 98.38 \* 163 87.33

3+50

89 01  
87.70  
1.31  
156  
C6.9 (23.9)  
C8.2 (5RP)

89 01  
87.70  
1.31  
108  
F9.5 (31.1)  
F11.7 (5RP)

89.01 X

Roberts  
Cota  
Moore  
Moculez  
4-1954  
W.O. 32239

Curp Stokes Poo Street

Locust Nly.

10852-2

0+90  
2758  
21.99  
5.59  
6.28  
F0.69  
2758  
22.47  
5.09  
4.85  
C0.24

0+70  
2758  
19.53  
8.05  
8.33  
F0.28  
2758  
20.30  
7.28  
7.02  
C0.26

0+50  
2758  
17.63  
9.75  
8.96  
C0.99  
17.63  
16.55  
F1.08  
2758  
18.13  
9.45  
8.56  
C0.89

0+30PK  
2758  
16.27  
11.31  
10.93  
C0.38  
16.27  
15.85  
F0.42  
2758  
16.77  
10.81  
9.78  
C1.03

0+256PK  
2758  
16.06  
11.58  
11.24  
C0.34  
16.06  
15.20  
F0.80  
2758  
16.50  
11.08  
10.05  
C1.03

#1  
2758  
14.45  
15.18  
15.13  
C0.23  
2758  
15.70  
11.85  
11.25  
C0.63

0+00 Nylime Locust  
2758  
14.45  
15.18  
15.13  
C0.23  
2758  
15.70  
11.85  
11.25  
C0.63

2+00 END Paving  
47.96  
43.70  
4.26  
4.45  
F0.19  
44.94  
47.20  
44.20  
3.76  
3.26  
C0.50

T.P. 8.81 47.96K  
1+75  
40.39  
38.20  
2.19  
1.21  
C0.98  
1.24 37.15  
40.39  
38.70  
1.69  
1.07 39.30  
C0.62

1+50 ETC  
40.39  
32.70  
7.69  
4.60  
C3.09  
40.39  
33.20  
7.19  
5.74  
C1.45

1+30  
40.39  
28.58  
11.81  
7.82  
C1.99  
40.39  
29.08  
11.31  
10.13  
C1.18

T.P. 12.71 40.39K  
1+10  
2758  
25.01  
2.57  
2.11  
C0.46  
0.17 27.41  
2758  
25.51  
2.07  
1.99  
C0.08

T.B.M. 12.87 27.58K 14.71 PK 0+00 E

Roberts  
Cota  
Moore  
Mosalez  
1-22-51  
WPT#23679

Grade Stakes Alley from 55th to  
Campfile St.; between Montezuma Dr.  
and Mary Lane Dr.  
Profile 533A

457.90

458.94 #4

LT.

RT

1+20	45714 456.27 C 0.87	45867 456.27 C 2.40	3+60	45744 456.93 C 0.51	45801 456.93 C 1.08
0+80 EKC	45717 456.16 C 1.01	45719 456.16 C 1.03	3+20	45732 456.82 C 0.50	45857 456.82 C 1.75
0+60	45793 455.85 C 1.08	45719 455.86 C 1.28	2+80	45784 456.71 C 1.13	45812 456.71 C 1.41
1+40	45730 455.03 C 1.27	45717 455.13 C 1.04	2+40	45789 456.60 C 1.29	45722 456.60 C 0.62
0+20	45536 453.71 C 1.65	45721 453.93 C 2.28	2+00	45752 456.49 C 1.07	45848 456.49 C 1.99
0+00 E.L. 55th	45187		1+60	45769 456.38 C 1.31	45808 456.38 C 1.70

TBN

PR No. 1 0+00  
45794 @ Alley E. Line  
55th

changed  
see pg 56

LT.

RT.

LT.

5+60

45721  
457.46  
F0.25

45820  
457.46  
C0.74

7+40

45760  
456.88  
C0.72

45844  
456.88  
C1.56

5+40 PVC

45715  
457.43  
F0.28

45705  
457.43  
F0.38

7+00 ✓

45755  
457.05  
C0.50

45851  
457.05  
C1.46

5+20

45713  
457.37  
F0.24

45778  
457.37  
C0.41

6+60

45742  
457.21  
C0.21

45838  
457.21  
C1.17

4+80

45703  
457.26  
F0.23

45792  
457.26  
C0.66

6+20 PVC

45771  
457.38  
C0.33

45821  
457.38  
C0.83

4+40

45696  
457.15  
F0.19

45763  
457.15  
C0.48

6+00

45771  
457.44  
C0.27

45722  
457.44  
F0.22

4+00

45695  
457.04  
F0.09

45727  
457.04  
C0.23

5+80

45767  
457.47  
C0.20

45755  
457.47  
C1.08

9+80	45700 455.91 C 1.09	45703 455.91 C 1.12	12+00	45529 455/29 45479 454.85 C 0.50 C 0.44	45662 456/62 45485 454.79 C 1.77 C 1.83
9+40	45761 456.07 C 1.54	45752 456.07 C 1.45	11+80 PVC	45531 455.10 C 0.21	45666 455.10 C 1.56
9+00	45763 456.23 C 1.40	45840 456.23 C 2.17	11+40	45575 455.26 C 0.79	45691 455.26 C 1.65
8+60	45782 456.40 C 1.42	45838 456.40 C 1.98	11+00	45604 455.42 C 0.62	45667 455.42 C 1.25
8+20	45738 456.56 C 0.82	45829 456.56 C 1.73	10+60	45634 455.58 C 0.76	45744 455.58 C 1.86
7+80	45773 456.72 C 1.01	45820 456.72 C 1.48	10+20	45653 455.75 C 0.78	45654 455.75 C 0.79



12+66.70<sup>W.L.</sup>  
Campanile

450.70  
450.39

450.39  
450.77

12+60 EVC

452.44 452.44  
451.04 451.33  
C 1.70 C 1.11

452.87  
451.04  
C 1.83

452.87  
451.33  
C 1.54

12+40

454.44 454.44  
452.98 453.18  
C 1.46 C 1.26

454.80  
452.98  
C 1.82

454.80  
453.18  
C 1.62

12+20

455.11 455.11  
454.02 454.14  
C 1.09 C 0.97

455.05  
454.02  
C 1.03

455.05  
454.14  
C 0.91

Roberts  
Moore  
Moralez  
4-26-54  
W.O.#32181

Curb Grades 33<sup>rd</sup> St  
Grape to Fir  
108342

1+20	265.39 265.26 C 0.13		2+40	255.57 254.88 C 0.69
------	----------------------------	--	------	----------------------------

1+00	265.91 IN		2+20	257.39 257.17 F 0.22
------	--------------	--	------	----------------------------

0+80	266.23 IN	IN	2+00	259.57 259.55 F 0.02
------	--------------	----	------	----------------------------

0+60	266.30 IN		1+80	261.51 261.46 C 0.05
------	--------------	--	------	----------------------------

0+40PVC	265.86 266.05 F 0.19		1+60	263.03 262.82 F 0.21
---------	----------------------------	--	------	----------------------------

0+00 S.L. Grape	266.27 265.17		1+40	264.30 263.91 F 0.39
-----------------------	------------------	--	------	----------------------------

BM

266.02 1<sup>st</sup> SW. corner Grape 33<sup>rd</sup> St

3100.14<sup>nl.</sup> Fir

24843  
248.40  
C0.03

24929  
249.00  
C0.29

2180

250.32  
250.50  
F0.02

25083  
250.89  
OK

← 2186 on Rt

2460

25268  
252.42  
C0.26

Roberts  
Moore  
Morales  
NO. #32000  
4-28-54

Curb Grades Rhode Island  
Madison to Golden Gate

10805L

50

1+10	340.24 339.44 F 0.80	340.32 339.56 F 0.76	2+40	337.90 339.59 F 0.31	337.90 337.81 F 0.09
0+90	340.06 339.74 F 0.32	340.19 339.37 F 0.82	2+15	338.61 338.54 F 0.07	338.61 338.34 F 0.27
0+70 PVC	339.71 339.55 F 0.16	339.90 339.36 F 0.54	1+90 EIC	339.32 338.93 F 0.39	339.32 339.03 F 0.29
30+40	339.20 339.06 C 0.14	339.35 338.97 F 0.38	1+70	339.80 339.19 F 0.61	339.80 339.31 F 0.49
20+10.49 <sup>EC</sup> RT	338.43 338.42 F 0.01	338.82 338.22 F 0.60	1+50	340.11 339.69 F 0.42	340.13 339.57 F 0.56
90+00 NL. Madison	338.20 338.19	338.68 338.00 F 0.68	1+30	340.25 339.62 F 0.63	340.31 339.70 F 0.61

2+75<sup>END</sup>  
CB336.90  
336.85  
F0.05337.00  
336.98  
F0.022+70<sup>LD</sup>  
BC337.05  
336.90  
F0.15337.14  
337.10  
C0.04

2+65 BRK

337.20  
337.06  
F0.14337.20  
337.26  
C0.06

Roberts  
Cota  
Moore  
Moraletz  
May 4, 1954  
W.O. 31849

~~RCURP~~ Grate Linda Rosa Ave  
Colima to Forward

11019 2 110202 FB 2122 pg 52

	15906		15604
2+01.97	158.91		155.15
	C 0.15	3+43.09	C 0.39

	16044		15630
1+51.97	160.28		155.93
	C 0.16	3+23.09	C 0.37

	16186		15665
1+01.97 BRK	161.65		156.29
	C 0.21	3+03.19	C 0.36

	16275		15703
0+61.97 BRK	162.70		156.72
	F 0.05	2+83.09	C 0.31

	16357		15753
0+30.96	16344		157.22
	F 0.13	2+63.09 PK	C 0.31

	16440		15775
D+00 <sup>cb EC</sup> at Colima on Linda	16436		15754
	F 0.04	2+51.97	C 0.21

	16484		
mid. Farm	16430		
BM	C 0.5		

NECT  
14752 Colima & Teft

2+13 Lane ②

155.78  
153.08  
C 2.65

1+94.65

155.90  
153.86  
C 0.04CBC Midway  
5+13.17 ENST.154.65  
154.64

1+74.65 PIC

155.69  
155.60  
F 0.09

4+83.09

155.00  
154.80  
C 0.20

1+50

155.51  
155.45  
C 0.06

4+33.09

155.05  
155.06  
F 0.05

1+00

155.10  
154.95  
F 0.15

3+83.09 EYL

155.39  
155.30  
C 0.09

0+50

155.10  
154.75  
C 0.35

3+63.09

155.62  
155.44  
C 0.18CBC  
0+00 Midway154.49  
154.40  
C 0.09

Midpoint

154.20  
154.16  
F 0.04

3+74.65 PVC

15937  
15917  
C 0.20

3+34.65 IN

158.37

3+03 wat lat

157.65  
157.62  
C 0.01

2+94.65 Lt

157.63  
157.57  
C 0.06

2+93 inner ① Lt

157.50  
154.22  
C 3.28

2+54.65 EVC

156.77  
156.75  
F 0.02

2+34.65

156.48  
156.40  
C 0.08

2+23 wat lat Lt

156.17  
156.25  
F 0.08

2+14.65

156.19  
156.10  
C 0.09

5+14.65

165.71  
165.60  
F 0.11

4+94.65 PVC IN

164.69

4+54.65 EVC IN

162.53

4+34.65 IN

161.25

4+14.65

160.59  
160.36  
C 0.23

3+94.65

159.84  
159.67  
C 0.17



166.00 Set Linda Rosa  
(aly 3' 8" Forward)

55

Midpoint

166.40  
166.70  
C0.30

6403.14<sup>cb</sup>  
BC Forward

166.53  
166.47  
C0.06

579465 EVC

166.71  
166.64  
C0.07

577465

167.06  
166.88  
C0.18

575465

166.85  
166.81  
C0.04

573465

166.42  
166.35  
F0.07

Roberts  
Cota  
Moore  
Morales  
5-12-54  
W.O.#23679

Grade Changes Alley Campanile Manor #2

56

See pg. 44

6+40	45768 45769 F0.01	45839 45769 C0.70	8+20	45738 45713 C0.25	45829 45713 C1.16
6+20 PVC	45771 45765 C0.06	45821 45765 C0.56	7+80	45773 45729 C0.44	45820 45729 C0.91
6+00	45771 45760 C0.11	45722 45760 F0.38	7+40	45760 45745 C0.15	45844 45745 C0.99
5+80	45767 45754 C0.13	45755 45754 C0.01	7+00 EVC	45755 45760 F0.05	45851 45760 C0.91
5+60	45721 45749 F0.28	45820 45749 C0.71	6+80	45751 45768 F0.11	45833 45768 C0.65
5+40	45715 No change 45743 F0.28	45705 45743 no change F0.38	6+60	45742 45769 F0.27	45838 45769 C0.69

10+60	456.34 456.19 C 0.15	457.44 456.19 C 1.25	12+40	454.44 452.86 C 1.58	454.80 452.86 C 1.94
10+20	456.53 456.35 C 0.18	456.54 456.35 C 0.19	12+20	455.11 454.39 C 0.72	455.05 455.39 F 0.34
9+80	457.00 456.51 C 0.49	457.03 456.51 C 0.52	12+00	455.29 455.35 F 0.06	456.62 455.35 C 1.27
9+40	457.61 456.66 C 0.95	457.52 456.66 C 0.86	11+80 P/C	455.31 455.72 F 0.41	456.66 455.72 C 0.94
9+00	457.63 456.82 C 0.81	458.40 456.82 C 1.58	11+40	455.75 455.88 F 0.13	456.91 455.88 C 1.03
8+60	457.82 456.98 C 0.84	458.32 456.98 C 1.34	11+00	456.04 456.03 C 0.01	456.67 456.03 C 0.64

w.l.  
12+66.70 Campanile

450.39  
450.37

450.70  
450.77

12+60 EVC

~~452.44~~  
No change 451.04  
C1.40

452.87  
451.33 No change  
C1.54

Roberts  
Cota  
Moore  
Moralpe  
5-13-54  
W.O.#31916

Curb Stakes Udall Street  
Warrington sly to exist Point.

59

10000L

2470.5 <sup>Exist</sup> <sub>Per. & dis.</sub> → 91.28

91.54 ←

1+10 PVC

9110  
90.92  
C 0.18

9092  
90.76  
C 0.16

2+30 FVC

9191  
91.77  
C 0.14

9234  
92.04  
C 0.30

0+85

9039  
90.25  
C 0.14

9025  
89.90  
C 0.35

2+10

9220  
91.95  
C 0.25

92.21  
92.03  
F 0.18

0+60

89.59  
89.55  
F 0.04

8930  
89.05  
C 0.25

1+90

9212  
92.00  
C 0.12

92.23  
91.94  
F 0.29

0+35

88.93  
88.55  
F 0.38

8852  
88.19  
C 0.33

1+70

91.92  
91.80  
F 0.12

~~91~~  
92.10  
91.70  
F 0.40

0+10 BC

88.27  
88.05  
F 0.22

8800  
87.34  
C 0.66

1+50

~~91~~  
91.72  
91.65  
F 0.07

91.81  
91.79  
F 0.02

0+00 End Curb

88.80  
87.90  
F 0.10

88.25  
86.95  
C 1.30

1+30

91.38  
91.30  
F 0.07

91.36  
91.07  
F 0.29

BM

Man SW Corner  
8765 Warrington & Udall

Roberts  
 55-17-54  
 NW 1/4 32243

Grade Stakes Alley Bk. 43, City Heights,  
 Univ. Ave. to Polk  
 Between Marlborough & 42nd  
 FB 1787951 107516

	35754	35713		35821	35808
1+15	356.80	357.11		357.22	357.59
	C 0.74	C 0.02	2+65	C 0.99	C 0.49

	35761	35748		35808	35896
0+90EVC	356.73	357.03		357.15	357.51
	C 0.88	C 0.45	2+40	C 0.93	C 1.45

	35740	35748		35810	35857
0+70	356.59	356.89		357.08	357.43
	C 0.81	C 0.59	2+15	C 1.02	C 1.14

	356.29	357.16		357.81	35811
0+50	356.05	356.59		357.01	357.35
	F 0.27	C 0.57	1+90	C 0.80	C 0.76

	356.66	35725		357.66	35757
0+30VC	355.84	356.14		356.94	357.27
	C 0.82	C 1.41	1+65	C 0.72	C 0.30

	355.06	355.34		35760	35733
0+00	cb 355.06			356.87	357.19
			1+40	C 0.73	C 0.14

BM  
 NW 1/4  
 358.25 Univ. Ave. to Van Dyke

4+15	35960 35765 C 1.95	35862 35807 C 0.55	5+60 BRK	35859 35808 C 0.51	35902 35853 C 0.49
3+90	35889 35758 C 1.31	35878 35797 C 0.79	5+40	35838 35802 C 0.36	35874 35847 C 0.27
3+65	35857 35750 C 1.07	35864 35791 C 0.73	5+15	35885 35794 C 0.91	35804 35839 F 0.35
3+40	35859 35743 C 1.16	35930 35783 C 1.47	4+90	35821 35787 C 0.34	35862 35831 C 0.31
3+15	35985 35736 C 2.49	35898 35775 C 1.23	4+65	35812 35780 C 0.32	35855 35823 C 0.32
2+90	35859 35729 C 1.30	35859 35767 C 0.92	4+40	35814 35772 C 0.42	35931 35815 C 1.16

579981 PK (35816) 358.04

358.43

5780

35816  
358.06  
C010

35862  
358.48  
C014



Roberts  
5-17-54  
x.0. 32086

Stakes For Water Line Heating  
Potterbaugh to Meade

0+70

1454  
139.8  
C 5.6

0+50

170.6  
166.5  
C 4.1

0+30

1434  
138.2  
C 5.2

0+00 E. line Terrace

164.4  
160.1  
C 4.3

off.  
0+09 cbx East Side Potterbaugh

1425  
138.0  
C 4.5

2+25 E. Terrace

160.4  
156.9  
C 3.5

E. Potterbaugh x34

1410  
137.0  
C 4.0

2+00

158.1  
153.7  
C 4.4

2+15.12 "TEE"

off.  
1+91.12 cb bc west side Potterbaugh

1409  
136.3  
C 4.6

1+50

151.7  
147.1  
C 4.6

1+90.12 Fire Hyd.

Top cb 1409  
140.20  
1412 C 0.7  
14020  
C 1.0

1+10

147.8  
142.8  
C 5.0

## Titus to Putterbaugh

64

Continued →

2+05.39 F. Hyd. db

1318  
131.37  
C 0.4

2+00.39

1325  
127.6  
C 4.9

1450

1341  
130.3  
C 3.8

1710

1347  
131.1  
C 3.6

2+00 W. Line Xeale

1893  
185.2  
C 4.1

1480

1865  
183.3  
C 3.2

0770

1345  
130.7  
C 3.8

1450

1831  
179.4  
C 3.7

0750

1343  
130.1  
C 4.2

1400

1770  
173.0  
C 4.0

0700 E. Line Titus

1326  
128.9  
C 3.7

2+00,10

1350  
131.5  
C 3.7

See Page 63

1+60

1339  
130.5  
C 3.4

1+60

1403  
135.7  
C 4.6

1+10

1330  
129.4  
C 3.6

1+10

1389  
134.6  
C 4.3

0+60

1326  
128.7  
C 4.2

0+60

1380  
133.6  
C 4.4

0+00

1317  
127.4  
C 4.3

0+00

1364  
132.3  
C 4.1

2+25,39 @ Linwood

1318  
127.4  
C 4.4

2+25,10 @ Guy

1357  
131.8  
C 3.9

Roberts

Water Laterals Keating

66

May 25, 1954

0+30 Rt

1444  
142.09  
C 1.3

0+00 Pittsburgh E. Line

1+30 Rt

1396  
138.94  
C 0.7

1+30 Rt

180.76  
1805  
F 0.2

0+70 Lt

138.69  
1377  
F 1.0

0+30 Rt

1681  
167.86  
C 0.2

0+30 Rt

1381  
136.85  
C 1.3

0+00 Torrence E. Line

0+00 Guy E Line

1+30

1506  
148.69  
C 1.9

Roberts  
Cota  
Moore  
Moraiz  
5-27-54  
NO. # 32230

Grade Stakes Alley BIK. 67, Park Villas  
Univ. to Wightman  
Between Pershing and Villa Terr.  
110152

0+65

32307  
322.68  
C 0.39

32301  
322.93  
C 0.08

1+20

323.39  
322.99  
F 0.40

323.64  
323.42  
F 0.22

0+50

32404  
324.04  
GRADE

324.29  
324.27  
F 0.02

1+10

323.02  
322.84  
F 0.68

323.27  
323.26  
F 0.01

0+30

32765  
327.00  
C 0.65

32813  
326.74  
C 1.39

1+00

322.66  
322.29  
F 0.37

322.91  
322.82  
F 0.09

0+20

32784  
327.49  
C 0.35

32892  
327.66  
C 1.86

0+90

322.43  
322.14  
F 0.29

323.06  
322.68  
C 0.38

0+10

32780  
327.74  
C 0.06

32954  
327.98  
C 1.56

0+80

322.30  
322.11  
F 0.19

322.90  
322.55  
C 0.35

N.L.  
0+100 Wightman

327.75

328.20

0+73.12 = 04'00" Drain

BM

SWBP  
338.02 Wightman  $\frac{1}{2}$  Pershing

2+40

332 69  
332.50  
C 0.19

333 32  
332.70  
C 0.62

0+80

31942  
317.89  
C 1.53

2+30

33199  
331.60  
C 0.39

33249  
331.80  
C 0.69

0+60

31973  
317.99  
C 1.74

2+05

33019  
329.70  
C 0.49

33113  
329.90  
C 1.23

0+40

32012  
318.09  
C 2.03

1+80

32843  
327.81  
C 0.62

32880  
328.01  
C 0.79

0+20

32225  
318.19  
C 4.06

1+55

325  
325.91  
32535  
F 0.56

32784  
32611  
C 1.73

Drain 4 1/2 E. of L. Alley  
0+00

32358  
Grate 322.00  
C 1.58

32358  
Inv. 318.29  
C 5.29

1+30 EVC

32451  
324.02  
C 0.49

32422  
32422  
GRADE

S.L.  
2+50 University

333.35

333.85

cb. Line  
1440.67 Villa Terr.

317.57  
317.56

1420

31864  
317.69  
C095

1400

31877  
317.79  
C098

Roberts  
May 28, 54  
W.O. 32086

Grade Stakes Keating St. Storm Drain  
Keating & Linwood  
Pipe only  
10839L

70

0+75

11050  
105.82  
C 4.68



0+50 <sup>cut off</sup>  
Headwall

12113  
111.38  
C 9.75

0+25

12373  
116.94  
C 6.79

1754

88.25

0+42 = 0+00  
<sup>& pipe & inlet</sup>

13360  
122.50  
C 11.10

1750 <sup>cut off</sup>  
Headwall

91.54  
89.14  
~~87.24~~  
C 2.40

0+21

13166  
123.75  
C 7.91

1725

95.99  
94.70  
C 1.29

0+00 <sup>& Box & pipe</sup>  
Inlet

13213  
125.00  
C 7.13

1700 <sup>cut off</sup>  
Headwall

103.78  
100.26  
C 3.52

1000  
556  
9.17



Roberts  
Cota  
Moore  
Morales  
6-7-54  
W.O. 21119

Rough Grades Armstrong St.  
Baltic Sly.  
(School)  
11250 L

71

0780

360.17  
35942  
F 0.8

3750

35970  
356.84  
C 2.9

0760

360.31  
35804  
F 2.3

3700

36319  
357.47  
C 5.7

0740

360.39  
35851  
F 1.9

2750

36368  
358.09  
C 5.6

0720

360.39  
35786  
F 2.5

2700

36494  
358.72  
C 6.2

0700 E. on

Armstrong

360.34  
35783  
F 2.5

1750

36316  
35934  
C 3.8

cb BC on Baltic

360.40  
35874  
F 1.5

1700 EVU

36059  
35976  
C 0.6

BM

chisel + NW Corner.  
35967 Baltic & Armstrong

354.11 B.G. Hub  
 Chpc Red

5442.00 cb EC (B.P.C.) on Armstrong.  
 354.89  
 354.70  
 C 0.2  
 354.16  
 35.369  
 F 0.4

cb. Ret. at Prop. S. Side Future St.  
 355.04  
 355.05  
 GRADE  
 354.50  
 353.20  
 F 1.3

cb. Ret. at Prop. N. Side Future St.  
 356.32  
 355.65  
 C 0.7

4442.00 cb B.C. Future Str. on Radius  
 356.21  
 355.70  
 C 0.5  
 356.14

4400  
 356.50  
 356.22  
 C 0.3

Roberts  
Cota  
Moore  
Morales  
6-9-54  
MO.#20988

Grade Stakes Arizona Sanitary E. II  
Drainage Ditch

2115D

SEE GB. 303 PAGE 6 FB, 2214 pg 16

20 Not a Slope St.

24+25	236.74 236.12 C 0.62	238.62 236.12 C 2.5 10.0'	25+75	237.43 235.67 C 1.76	242.27 235.67 C 6.6 18.2'
24+60	236.95 236.20 C 0.75	246.80 236.20 C 4.6 14.2'	25+50	237.40 235.75 C 1.65	244.55 235.75 C 8.8 22.6'
23+75	237.73 236.27 C 1.46	244.37 236.27 C 8.1 21.2'	25+25	237.17 235.82 C 1.35	244.82 235.82 C 9.0 23.0'
23+50	238.46 236.35 C 2.11	246.05 236.35 C 9.7 24.4'	25+00	237.29 235.90 C 1.39	243.80 235.90 C 7.9 20.8'
23+25	239.04 236.42 C 2.62	246.12 236.42 C 9.7 24.4'	24+75	237.15 235.97 C 1.18	242.47 235.97 C 6.5 18.0'
23+00	239.12 236.50 C 2.62	245.00 236.50 C 8.5 22.0'	24+50	236.97 236.05 C 0.92	239.85 236.05 C 3.8 12.6'

26+00

237.60  
235.60  
C2.0  
90'

Robert  
Cota  
Moore  
Miralez  
6-10-54  
W.P.F.

Grade Stakes For Sewer in 800 Block  
on Rosecrans

76

1425  
10775  
10469  
C3.06

1400  
10674  
10375  
C2.99

0475  
10575  
10281  
C2.94

0450  
10480  
10188  
C2.92

0425  
10388  
10094  
C2.94

Dead End  
0400 Existing Sewer

100.00 Assumed

1475  
New P.E.

110.74  
106.56  
C3.58

1450

108.76  
105.63  
C3.13

Elev. 100 Assumed for Existing Dead End.

Roberts  
Cota  
Mance  
N. Calce  
6-10-54  
WP. 32239

Grade Station Fin. Curb, Evergreen  
Newell to Roe

	LT.	RT.		LT.	RT.
				7730	
0+50	5384 5381 F0.03	53.14 5304 F0.10	2+00	77.27 76.96 C0.03	F0.31
0+31.47 <sup>PC</sup> cb	<del>5188</del> 5188 GRADE F0.10	51.10 50.59 F0.51	1+80 PK	7441 7436 C0.11	74.30 74.20 F0.10
#4	5036 50.20 call	49.30 48.85 F0.45	1+50	6977 69.54 C0.23	69.60 69.41 C0.19
#3	4927 48.80 C0.47	47.70 47.22 F0.48	1+25	65.72 65.61 C0.11	65.66 65.34 C0.32
#2	<del>4840</del> 48.05 C0.35	<del>4922</del> 48.05 C0.17	1+00	61.69 61.67 F0.82	61.32 61.29 C0.04
#1 Begin Curb Newell	4847 47.85 C0.62	<del>5010</del> 47.85 C0.25	Exist. 0+75	57.76 57.62 F0.14	57.21 57.17 F0.04

SE, Ad doc  
40.67 Existing Newell

\* 2+70

184.04 G  
84.00  
F0.04

3+25

8659  
86.57  
C0.02

86.98  
86.57  
C0.41

4+70.06

cb BC

93.10  
92.89  
F0.21

93.10  
91.64  
F1.46

3+00

8546  
85.45  
C0.01

85.72  
85.45  
C0.27

4+50

92.50  
92.20  
C0.30

92.20  
90.70  
F1.50

2+80 EK

84.55  
84.45  
F0.10

84.59  
84.55  
C0.04

4+25

91.08  
91.07  
C0.01

91.07  
90.67  
F0.40

\*

2+60

83.42  
83.26  
F0.16

83.22  
83.37  
F0.05

4+00

89.95  
87.86  
F0.09

89.91  
89.95  
F0.04

2+40

91.83  
91.61  
F0.22

81.83  
81.56  
F0.27

3+75

82.87  
88.82  
C0.05

88.82  
88.74  
F0.08

2+20

79.78  
79.78  
GRADE

79.78  
79.53  
F0.25

3+50

87.74  
87.70  
C0.04

87.91  
87.70  
C0.21



End  
Stoical. Cb

9815  
9425  
C 3.90

9425  
9344  
F 0.81

Midpoint

9549  
9381  
C 1.68

9381  
9219  
F 1.62

PRL Cb.

9378  
9336  
C 0.42

9336  
9169  
F 1.67

Grade Stakes for Cb. Inlets  
Keating and Linwood -

80

10 B-2 Inlet

East End

131.31  
131.30  
00.01

West End

131.25  
131.00  
F0.25

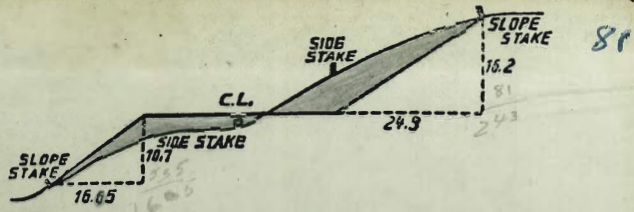
H - Inlet

East End

131.25  
130.82  
F0.43

West End

131.74  
131.23  
00.73



**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

THE NATIONAL BLANK BOOK COMPANY  
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