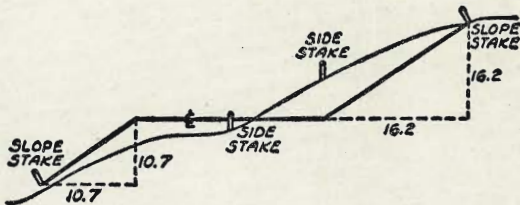






G-382



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 19 1965

DIRECTIONS FOR USE OF TABLES

TABLE No. XIV

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

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IMPROVED TABLES  
AND  
INFORMATION

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car tangent. It does not make the right and  
left column and top row. The number in the

TABLE No. VIII

To find tangent and Euclyd for curve of  
any other degree, divide by degree of curve and  
add correction found in column of correction.  
Degree of curve with a given  $T$  may be found  
by dividing tangent (or external) opposite  $T$  by  
given tangent (or external).  
The distance from a point on the tangent to  
the curve is very nearly the square of the tangent  
length divided by twice the radius.



Roberts  
Taylor  
Moore  
Mejer  
3-27-57  
NO# 21363

Grade Stakes for Storm Drain  
Rolando & Revillo  
4269 & 4270 D

Get  
35870  
357.13  
1+25.85 C.D. C 1.57

35870  
353.22 I.E.  
C 5.48

35804  
350.55  
C 7.49

1+23.35 EC

35791  
350.51  
C 7.40

1+01.49 Midpoint

35736  
350.15  
C 7.21

0+84 Lateral

3635  
354.7  
C 8.8

0+79.63 BC

35688  
349.80  
C 7.08

0+42

3624  
352.7  
C 9.7

0+40

35570  
349.16  
C 6.54

0+00 Exist Sewer  
6" VC

3606  
350.7  
C 9.9

0+00 Exist Storm Drain  
University Avenue

35561  
348.50  
C 7.11

BNA 357.75 Chisel Square NW cb. Ret BC Univ. & Rolando



♀ <del>Gut</del>	36535	36535	36525	36525
Lug	364.43	359.30 SE	356.46	354.41
3+75 Corn.	C 0.92	C 6.05	C 8.85	C 10.84

♀ Gut	36833	36833	♀ Gut	36898	368.98
Lt	36705	361.76 IE	Rt	36798	363.84 IE
	C 1.28	C 6.57		C 1.02	C 5.14

3+50

36483  
354.15  
C 10.68

4+98.34 C.O.

	36798	367.78	36798
Lt.	360.20	356.40 Rt	356.08
	C 7.78	C 11.58	C 11.90

3+00

36343  
353.40  
C 10.03

4+92.34 EC

36774  
356.00  
C 11.74

2+50

36187  
352.57  
C 9.30

Lt.  
4+70.08 Midpoint

36669  
355.70  
C 10.99

2+00

36032  
351.75  
C 8.57

4+47.83 EC

36717  
355.40  
C 11.77

1+50

35885  
350.94  
C 7.91

4+00

36583  
354.75 5  
C 11.08



			10+09.9 C.O.	371.70 362.95 C 8.75
7+69.14 BC	38133 359.73 C 21.60		9+67.05 BC. <sup>372.742</sup>	37303 362.41 C 10.62
7+50	38061 359.48 C 21.13		9+50	37420 362.17 C 12.03
7+00	37809 358.80 C 19.29		9+00	37825 361.50 C 16.75
6+50	37533 358.13 C 17.20		8+50	38083 360.82 C 20.01
6+00	37292 357.45 C 15.47		8+12.09 EC	38137 360.31 C 21.06
5+50	37039 356.78 C 13.61	<del>37039</del>	7+90.61 Midpoint <sub>10ft</sub>	38166 360.02 C 21.64



13+00

378.23  
371.75  
C 6.48

cb 379.33  
83  
Gut 378.50

12+50

376.57  
370.83  
C 5.74

14+50

381.96  
375.54  
C 6.42

12+00

375.50  
369.92  
C 5.58

14+00

380.77  
374.15  
C 6.62

11+58 BRK

374.52  
369.15  
C 5.37

W 379.44  
I.E. → 374.50  
C 4.94

E 378.53  
I.E. → 373.38  
C 5.15

11+42 BRK

373.97  
368.67  
C 5.30

W 379.44  
Gut → 378.36  
C 1.08

(0.88)  
(7)  
E 378.53  
Gut → ~~378.36~~  
F 0.03

11+00

373.10  
366.85  
C 6.25

13+42 C.O.

379.26  
W → 374.50  
C 4.76

379.26  
N → 372.54  
E → C 6.72

10+50

372.12  
364.69  
C 7.43

13+15.80 PRC

378.64  
372.06  
C 6.58



17+50

388.93  
383.89  
C 5.04

17+00

388.10  
382.50  
C 5.60

16+65.23 BC.

387.31  
381.53  
C 5.78

16+25.23 EC.

386.27  
380.41  
C 5.86

18+75

39351  
~~Lt. 391.44~~  
C 2.07

39553  
~~Rt. 391.44~~  
C 4.09

16+00

385.65  
379.71  
C 5.94

18+60 END  
PIPE

392.13  
386.94  
C 5.19

15+50

384.36  
378.32  
C 6.04

18+30

390.95  
386.10  
C 4.85

15+00

383.20  
376.93  
C 6.27

17+98.56 EC.

390.30  
385.23  
C 5.07



Roberts  
Kerer  
Morales  
Morales

Rough Grades Locust St.

Lowell to Macaulay

4-3-57

12793-L

W.O.P. 32211

1+56 <sup>30</sup> Cb Bc	20 18.00 C2.0	17.50 16.9 F0.6
--------------------------	---------------------	-----------------------

1+20	199 17.78 C2.1	177 17.28 C0.4
------	----------------------	----------------------

0+90	192 17.60 C1.6	179 17.10 C0.8
------	----------------------	----------------------

0+60	195 17.42 C2.1	179 16.92 C1.0
------	----------------------	----------------------

0+30	192 17.24 C2.0	175 16.74 C0.8
------	----------------------	----------------------

0+00 Cb Bc Lowell	186 17.06 C1.5	173 16.56 C0.7
----------------------	----------------------	----------------------

1+81.30 <sup>w.L.</sup> Macaulay	199 18.50 C1.4
----------------------------------	----------------------

1750  
170  
F0.5



Locust  
Keats to Lowell

1+ 55.85  
1+ 56 BC  
Lowell

184  
15.93  
C 2.5  
15

159  
15.43  
C 0.5

1+20

169  
15.17  
C 1.7

156  
14.67  
C 0.9

0+90

165  
14.52  
C 2.0

150  
14.02  
C 1.0

0+60

154  
13.86  
C 1.5

13.36  
12.9  
F 0.5

0+30

158  
13.21  
C 2.6

128  
12.71  
C 0.1

BC  
0+00 Keats

154  
12.55  
C 2.8

121  
12.05  
GRADE



Rorer  
Moore  
Durham  
W.O. #32211

Curb stakes  
Locust St

4-15-57 Lowell to Macaulay  
E

		17.59	
		<u>17.50</u>	
1 + 56 <sup>30</sup>	C6 BC	<u>18.00</u>	
		<u>17.97</u>	
		F 0.03	C009

		17.80	17.30
		<u>17.78</u>	<u>17.28</u>
1 + 20		C 0.02	C 0.02

		17.68	17.20
		<u>17.60</u>	<u>17.10</u>
0 + 90		C 0.08	C 0.10

Lowell (North)  
end cb 17.51  
#2 17.14  
C 0.37

Macaulay (West)  
end cb 18.86  
#3 18.59  
C 0.27

		17.45	16.96
		<u>17.42</u>	<u>16.92</u>
0 + 60		C 0.03	C 0.04

#1 17.27  
17.05  
C 0.22

18.85  
#2 18.28  
C 0.57

		17.34	16.74
		<u>17.24</u>	<u>16.66</u>
0 + 30		C 0.10	F 0.08

16.50  
#1 16.51  
C 0.01

17.72  
#1 17.44  
C 0.28

		17.12	16.73
		<u>17.06</u>	<u>16.56</u>
0 + 00		C 0.06	C 0.17

end cb 16.67  
#2 16.44  
C 0.23

17.33  
#2 17.20  
C 0.13

16.91  
#3 16.90  
end curb C 0.01  
South

East



Keats to Lowell

	15.94	15.52
Lowell	<u>15.93</u>	<u>15.43</u>
1+5585 BC	C0.01	C0.09

	15.25	14.74
1+20	<u>15.17</u>	<u>14.67</u>
	C0.08	C0.07

	14.59	14.09
0+90	<u>14.52</u>	<u>14.02</u>
	C0.07	C0.07

	13.96	13.37
0+60	<u>13.86</u>	<u>13.36</u>
	C0.10	C0.01

	13.21	12.71
0+30	<u>13.20</u>	<u>12.55</u>
	F0.01	F0.16

	12.55	12.05
0+00 BC Keat	<u>12.53</u>	<u>11.77</u>
	F0.02	F0.28

Keats (North) Lowell (West)

End cb meet	12.24	end cb #2	16.55
	<u>12.22</u> ✓	#2	<u>16.42</u>
			C0.13

#1	12.41	#1	16.15
	<u>12.33</u>		<u>16.11</u>
	C0.08		F0.04

Locast

#1	11.86	#1	15.68
	<u>11.70</u>		<u>15.60</u>
	C0.16		C0.08

End cb meet	11.40	#2	15.75
	<u>11.39</u>	end cb	<u>15.73</u>
	Fast		South
	F0.01 ✓		F0.02



Roberts  
Rover  
Moore  
Parkman  
4-11-57  
V.O. # 21602

Stake Drain Block 34,  
H.M. Higgins Add.

6489-B

10

1+12 East  
Drain

158.76 ← BM

155.79

0+88

163.57  
157.70  
← 5.87

0+64 ← Lt.

159.99  
156.64  
← 3.35

0+32

156.67  
155.22  
← 1.45

0+00

1.24' South  
of East Inlet  
at the Alley

155.75  
153.80  
← 1.95



Roberts  
Rover  
Morse  
Duckham  
4-17-57  
V.R.O. # 21602

Stake Drain Block 34,  
H.M. Higgins Add.

6489-B

10

1+12 <sup>East</sup>  
Drain

158.76 ← BM

0+88

163.57  
157.70  
C 5.87

0+64 <sup>1/2</sup> Lt.

159.99  
156.64  
C 3.35

0+32

156.67  
155.22  
C 1.45

0+00

1.24' South  
of East Inlet  
at the Alley

155.75  
153.80  
C 1.95

155.79



Roberts  
Royer  
Moore  
Morales  
4-26-57  
M.O.#32664

# Rough Grade Stakes

## Everts

Pac. Bch. Dr. to Oliver 3834-D

125  
11.82  
BC  
2+3963 Oliver  
C 0.7

143  
12.82  
C 1.5

116  
11.12  
2+00  
C 0.5

136  
12.12  
C 1.5

108  
10.25  
1+50  
C 0.5

125  
11.25  
C 1.2

96  
9.37  
1+00  
C 0.2

113  
10.37  
C 0.9

89  
8.50  
0+50  
C 0.4

109  
9.50  
C 1.4

85  
7.80  
BC  
0+10 Pac. Bch. Dr.  
C 0.7

100  
8.80  
C 1.2

NWBP 7.37 Pacific Beach Dr. E Everts

## Everts

Oliver to Reed 3834-D

162  
16.28  
2+00  
C 0.1

1740  
17.02  
C 0.38

152  
15.11  
1+45  
C 0.1

171  
16.07  
C 1.0

149  
14.77  
1+25  
C 0.1

168  
15.77  
C 1.0

148  
14.46  
1+00  
C 0.3

168  
15.46  
C 1.3

144  
13.84  
0+50  
C 0.6

159  
14.84  
C 1.1

137  
13.35  
BC  
0+10 Oliver  
C 0.3

156  
14.35  
C 1.2



Everts

12

Reed to Thomas 3835-D

	254	254
	24.15	24.50
2+30	C 1.2	C 0.9

	249	250
	24.30	24.39
1+90	C 0.6	C 0.6

	244	247
	23.62	23.62
1+50 PVC	C 0.8	C 1.1

	226	223
	22.15	22.15
1+00	C 0.4	C 0.1

	211	213
	20.68	20.68
0+50	C 0.4	C 0.6

	179
	17.55
2+60.10 <sup>BC</sup> Reed	C 0.3

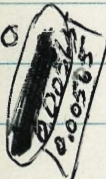
	183
	18.05
	C 0.2

	200
	19.50
0+10 <sup>BC</sup> Reed	C 0.5

	206
	19.50
	C 1.1



Everts 13  
 Thomas to Grand 3835-D

2700	27.26	313
	✓	28.19
		C 3.1

1745	26.95	27.95
------	-------	-------

1725	26.79	27.79
	26.5	✓
	F 0.3	

0+90 EVC	267	306
	26.36	27.36
	C 0.3	C 3.2

0+50	265	297
	25.57	26.48
	C 0.9	C 3.2

257  
 23.75  
 C 1.9  
 2+59.70 BC  
 Thomas

249  
 24.30  
 C 0.6

0+10 BC Thomas	256	287
	24.25	24.90
	C 1.3	C 3.8



SW 7' 2d  $\frac{1}{2}$  CT 27.69 Events  $\frac{1}{2}$  Grand

2+60.02 <sup>BC</sup>  
~~Grand~~

27.60  
✓

319  
28.45  
C 3.4



Roberts  
Rorer  
Moore  
Morales  
4-30-57  
W.O. # 62921

Grade Stakes for Drain  
Lot 48, Fairhaven Acres  
6401-B

15

1+50

244.30  
242.60  
C 1.70

3+00

260.25  
256.67  
C 3.58

1+25

242.37  
240.60  
C 1.77

2+75

256.49  
254.14  
C 2.35

1+00

240.63  
238.60  
C 2.03

2+50

256.01  
251.61  
C 4.40

0+67.48 BRK

238.41  
236.00  
C 2.41

2+21.28 EC

262.52  
248.70  
C 13.82

0+25

237.91  
235.50  
C 2.41

2+02.65 BC (BRK)

260.24  
246.81  
C 13.43

0+00

Auburn St.

235.20  
234.78  
F 0.42

1+75

250.92  
244.60  
C 6.32



3+65.39 Exist  
21" Culvert

263.28  
✓

26503

3+50

26323  
261.73  
C 1.50

3+25

26184  
259.20  
C 2.64



Roberts  
Kiler  
Alora  
Kardner  
5-1-57  
2017 32104

Rough Grades Orten St.  
Frankfort to Galveston  
13002-L

17

ch  
79.20

1440	670 66.18 C 0.8	671 66.14 C 1.0			
1420	650 64.83 C 0.2	656 64.83 C 0.8	3+09.75 <sup>W.L.</sup> Galveston	79.65	78.50
1400 EVC	638 63.58 C 0.2	647 63.58 C 1.1	2+87 BRK	800 71.50 C 2.5	77.00 764 F 0.6
0+58	618 61.04 C 0.8	629 61.04 C 1.9	2+335	759 73.31 C 2.6	735 72.99 C 0.5
0+16 BRK	598 58.50 C 1.3	617 58.50 C 3.2	1+80 EVC	702 69.13 C 1.1	699 68.99 C 0.9
0+00 E.L. Frankfort	57.82	57.70	1+60	686 67.61 C 1.0	679 67.53 C 0.4

SEBP 57.66 Frankfort  $\frac{1}{2}$  Orten



Roberts  
1-2-57  
W.O. 32864

Curb Grades Everts  
~~FEED TO THOMAS~~

3835-D

Red Pt	alleg	St.	alleg	St.			
1+20.85	22.84	22.76	22.84	22.76	2+00	2439	2454
	C0.07	C0.15	F0.09	F0.01		24.30	24.39
						C0.09	C0.15

			22.29			2417	2428
1+00	22.15		22.15		1+80	24.07	24.09
	21.98		C0.14			C0.10	C0.19
	F0.17						

	21.52		21.45			23.62	23.62
0+75	21.41		21.41		1+60 PVC	23.58	23.47
	C0.11		C0.04			F0.04	F0.15

			20.77			23.52	23.20
0+50	20.68		20.68		Red Pt	Alleg	St.
	20.65		C0.09		1+48.85	23.50	23.58
	F0.03					C0.02	F0.06
						F0.30	F0.38

	19.95		19.95			24.41	24.71
0+25	19.89		GRADE		END RET.	23.61	23.61
	F0.06					C0.80	C1.10

	19.58		19.58			23.39	23.06
0+10	19.50		19.50		END RET.	23.06	23.06
	19.49		C0.08			C0.33	GRADE
	F0.07		19.30				



EVERTS  
THOMAS TO GRAND

19

			27.02	27.91
			RAID Pt. Alley st.	Alley st.
			1+21.01 26.87	27.87 27.74
			C0.15 C0.28	C0.04 C0.17
			26.54	27.44
			26.36	27.36
			0+90 EK C0.18	C0.08
#1		24.20	26.20	
		24.15	26.04	27.02
		F0.05	C0.16	26.77
			0+70	F0.25
			25.66	26.66
			25.57	26.48
BL THOMAS	23.75	24.30	0+50	C0.18
2+59.70	23.75	23.98	C0.09	
	GRADE	F0.32		
			25.06	25.99
			24.95	25.74
2+40	24.12	24.50	0+30	C0.25
	24.15	24.24	C0.11	
	F0.03	F0.26		
			24.51	25.04
			24.25	24.90
2+20	24.33	24.60	BL THOMAS	C0.14
	24.33	24.53	0+10	
	GRADE	C0.07	C0.26	



2+25

27.41  
✓28.52  
28.29  
C0.23

2+00

27.26  
✓28.39  
28.18  
C0.21

1+75

27.12  
✓28.32  
28.08  
C0.24

26.89

28.16

RAD. FF  
1+49.01  
Alky 26.99  
St. 26.97  
F0.10 F0.08Alky 28.01  
St. 27.97  
C0.15 C0.19

MID

27.05  
26.73  
F0.3228.42  
28.11  
C0.31

END RET.

27.15  
26.50  
F0.6528.76  
✓BC GRAND  
2+60.0227.60  
✓28.66  
28.45  
C0.21

END RET.

27.19  
26.93  
F0.2628.50  
✓

2+50

27.55  
✓28.63  
28.39  
C0.24

MID

26.97  
26.99  
F0.0228.12  
28.01  
C0.11



Everts  
 Pac. Beh. Dr. to Oliver  
 3834D

1400	938 9.36 C0.02	1056 10.36 C0.20	1475	1078 10.67 C0.11	1183 11.67 C0.16
0+75	904 8.93 C0.11	1003 9.93 C0.10	1450	10.23 10.04 F0.19	1126 11.23 C0.03
0+50	849 8.49 GRADE	949 9.46 F0.03	Rad. Pt. Alley 1438.81 10.13 C0.07	1020 St 10.04 C0.16	11.02 Alley St 11.13 11.04 F0.11 F0.02
0+25	816 8.06 C0.10	906 9.01 F0.05	END RET	1081 10.39 C0.42	1224 11.39 C0.85
B.C. Pac. Beh. Dr. 0+10	802 7.80 C0.22	885 8.80 C0.05	END RET	10.01 9.70 F0.31	1183 11.04 C0.79
#1	786 7.75 C0.11		Rad Pt Alley 1410.81 9.78 F0.27	9.51 St 9.55 F0.04	10.73 Alley St 10.78 10.55 F0.05 C0.18







	16.96	17.52		
2+25	16.80	17.45		
	C0.16	C0.07		

	16.27	17.05		
2+00	16.10	17.02		
	F0.17	C0.03		

	15.90	16.59		
1+75	15.74	16.41		
	C0.16	F0.18		

	15.21	16.01		
Rad. Pt.	Alley	St	Alley	St
1+49.05	15.19	15.19	16.15	16.14
	C0.02	C0.02	F0.14	F0.13

	15.56	17.05	Bl Reed	
END CURB	15.51	16.47	2+60.10	17.55
	C0.05	C0.58		17.51
				F0.04
				18.05
				17.95
				F0.10

	15.17	16.70		
END CURB	14.96	16.17	2+50	17.38
	F0.21	C0.53		17.33
				C0.05
				17.88
				17.84
				F0.04



Roberts

Stake Storm Drain

24

5-7-57

Lot 17 1/2 BK 35 Fairmount Add.

Map # 21464

6428-B

0+59.71 END  
PIPE

32808  
325.11  
C 3.97

0+52.77R

32833  
325.28  
C 3.05

0+26.38

32891  
325.91  
C 3.00

0+00 EXIST  
DRAIN

32654



Roberts

5-757

UNC#31982

Stakes For Alley E/W 21,  
Fairmount Addition

3854-AD

25

1400 P/C

34601  
345.66  
C 0.35

34785  
345.66  
C 2.19

2+30 P/C

338.03  
337.81  
F 0.22

338.03  
337.45  
F 0.58

0+80 Water  
Lat.  
Left

345.11  
345.05  
F 0.06

34666  
345.11  
C 1.55

2+00 EVC

34314  
341.41  
C 1.73

341.41  
341.23  
F 0.18

0+60

344.55  
343.53  
F 1.02

34580  
344.55  
C 1.25

1+80

343.79  
342.34  
F 1.45

343.79  
343.53  
F 0.26

0+40

344.60  
343.99  
C 0.61

34424  
343.99  
C 0.25

1+60

344.79  
342.88  
F 1.91

34570  
344.79  
C 0.91

0+20 BRK

34434  
343.43  
C 0.91

34354  
343.43  
C 0.11

1+40

345.65  
343.33  
F 2.32

34668  
345.65  
C 1.03

0+00

University

343.18

343.21

1+20

345.94  
344.59  
F 1.35

34721  
345.94  
C 1.27

water  
1+30 Lat.  
Lt.

4 at +00 = 342.90



3+30 PVC

328.77  
328.64  
F 0.13

328.77  
328.16  
C 0.61

4+35

~~34000~~  
334.97  
C 5.03

336.13  
334.87  
C 1.26

3+15 <sup>Water</sup> Lat.  
Rt.

4+30 <sup>Water</sup> Lat.  
Lt

3+05

329.86  
328.83  
F 1.03

329.86  
329.44  
F 0.42

4+10 EVC

339.93  
331.34  
C 8.59

331.42  
331.30  
C 0.12

2+80 EVC

330.98  
330.95  
C 0.03

330.95  
330.62  
F 0.33

3+95

329.60  
328.97  
F 0.63

329.59  
328.32  
F 1.27

2+65

332.23  
332.23  
GRADE

332.80  
332.23  
C 0.57

3+80 <sup>Water</sup> Lat.  
Rt

328.87  
328.74  
C 0.13

328.74  
327.71  
F 1.03

2+50

335.21  
334.78  
C 0.43

334.86  
334.78  
C 0.08

3+70

328.80  
328.46  
C 0.34

328.46  
327.78  
F 0.68

2+40

336.71  
336.65  
C 0.06

336.65  
336.01  
F 0.64

3+50

328.61  
328.26  
C 0.35

328.26  
327.26  
F 1.00

3+45 <sup>Water</sup> Lat.  
Lt



5+45 ERK

34805  
34730  
C 0.7534752  
34700  
C 0.52

5+30

34787  
346.72  
C 1.1534682  
346.41  
C 0.41

5+15

34624  
345.68  
C 0.5634615  
345.40  
C 0.75

5+00

34508  
344.19  
C 0.89343.93  
34374  
F 0.19

4+85 FIC

34302  
342.24  
C 0.7834215  
342.02  
C 0.13

5799.77 FOLK St.

348.48

34795

4+60

33985  
338.60  
C 1.2533999  
338.44  
C 1.55

5780 ERK

34907  
348.11  
C 0.9634737  
347.81  
F 0.44



Roberts Grades for Storm Drain

5-8-57 Lot 16, BK 10 Kensington Park

W.O.# 21595

6493-B

30

33945

334.58

C 4.87

0+91 END

34728

339.62

C 7.66

0+66

34917

344.66

C 4.51

0+41

35490

349.70

C 5.20

0+16 BRK

35474

Gutter 353.72

C 1.02

West curb  
0+00 line Kensington Dr

35474

350.50 I.E.

C 4.24

BLI NW 4' CT. Alder & Kensington = 356.74



Roberts Curb Stakes Orten Street

5-9-57

Mkt# 32104

13002-L

1+00PK

63.58

6338

F0.20

6376

63.58

C0.18

1+80EVC

6933

69.13

C0.20

6914

68.99

C0.15

0+79

62.31

61.98

F0.33

6238

62.31

C0.07

1+68.87 Alley Street

68.02

68.28

C0.23

F0.03

Alley

67.73

C0.15

Street

68.18

F0.10

0+58

61.04

60.91

F0.13

61.04

61.00

F0.04

END RETURN

6940

68.18

C1.22

6883

68.09

C0.74

0+37

60.15

59.77

C0.38

5997

59.77

C0.20

END RETURN

6723

66.73

C0.50

6719

66.68

C0.51

0+16EVC

5867

58.50

C0.17

5856

58.50

C0.06

1+40.87 Alley Street

66.51

66.24

F0.06

C0.27

Alley

66.52

F0.03

Street

66.20

C0.29

0+04<sup>CB EC</sup> Frankfort

5814

57.99

C0.15

5800

57.90

C0.10

1+20

6494

64.83

C0.11

6519

64.83

C0.36



79.29

80.97  
1750  
347

20  
10 35

#3

~~|||||~~

79.00  
7848  
F 0.52

#2 (END Curb on Left)

80.75  
79.65  
C 1.10

78.65  
7818  
F 0.47

#1

78.87  
78.57  
C 0.30

78.10  
7786  
F 0.24

0 2 + 91.75 BCCb Right

~~|||||~~

77.37  
7737  
GRADE

0 2 + 86.75 BCCb Left

78.16  
77.50  
C 0.66

~~|||||~~

2+60.25 →

→ 2+60.25

75.83  
75.40  
C 0.43

75.34  
74.99  
C 0.35

0 2 + 33.5

73.51  
73.31  
C 0.20

73.14  
72.99  
C 0.15

→ 2+06.75

71.32  
71.22  
C 0.10

71.05  
70.99  
C 0.06

2+06.75 →



Roberts  
5-14-57  
W.O. 32630

Rough Grades 49th St.  
Univ. So. to D.E.  
3725 AD

31

1+20 Pvc

3287  
324.28  
C 4.4

3233  
322.75  
C 0.5

2+40 EVC

3238  
321.64  
C 2.2

320.14  
3198.  
F 0.3

0+80 wet. Lot ②  
on Rt.

//////

3218  
cb 321.43  
C 0.4

2+20

3255  
322.99  
C 2.5

321.49  
3205  
F 1.0

0+70

3228  
322.65  
C 0.1

321.09  
3203  
F 0.8

2+00

3266  
323.98  
C 2.6

322.48  
3219  
F 0.6

0+30 Wat. Lot ①  
on Rt

//////

cb 319.75  
3195  
F 0.3

1+80

3273  
324.60  
C 2.7

323.10  
3228  
F 0.3

0+20 BRK

3212  
321.01  
C 0.2

319.41  
3180  
F 1.4

1+60

3275  
324.86  
C 2.6

3237  
323.35  
F 0.3

0+00 University

320.35

318.74

1+40

3269  
324.76  
C 2.1

3231  
323.23  
F 0.1



\*3+40

3165  
313.49  
C 3.0

312.44  
311.7  
F 0.7

1+00

293.97  
287.97  
C 6.00

\*3+20

3179  
315.37  
C 2.5

3145  
313.98  
C 0.5

0+75

302.00  
292.35  
C 9.65

Same Point

3+99.96 END

309.51

309.51  
309.3  
F 0.2

0+50

306.73  
296.73  
C 10.00

3+74.9 Rad  
Cut De Sec

3141  
310.20  
C 3.9

309.95  
309.3  
F 0.7

0+30.03 EC

310.64  
300.24  
C 10.40

3+51.95 BC  
Cut De Sec

3155  
312.30  
C 3.2

311.52  
311.1  
F 0.4

0+6.21 BC

310.60  
304.41  
C 6.19

\*Note! (above)

3+00 PWC

3191  
317.02  
C 2.1

3159  
315.52  
C 0.4

Curb  
0+00 face  
Cut De Sec

	<del>310.93</del> (East)	<del>310.93</del>	(West)
Curb	309.50	309.50	309.50
0+00 face	C 1.73	C 5.43	309.18
Cut De Sec			F 0.32
	310.66 310.66		
East	309.50 309.50	West	309.50
	C 1.16 C 5.16		308.80
			F 0.70



1466 END

27814  
276.40  
C 1.34

1425

28731  
283.59  
C 3.72



Roberts  
3-23-57  
NO. 52722

Rough Grades Maple  
Montclair to Haller  
3876-D

1+40	274.2 2736 F0.6	<del>27418</del> <del>2731</del> F15.1	2754 27413 C1.3	2+51.6	270.7 270.0 F0.7	270.67 <del>2655</del> F15.2	2713 270.73 C0.6
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1+20 FVC	275.67 2750 F0.7	2767 275.60 C1.1	2+20 FVC	271.1 2705 F0.6	271.10 2705 F11.6	271.10 2708 F0.3	<del>271.43</del>
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0+80	278.94 2775 F1.4	2798 278.78 C1.0	2+00	271.5 2707 F0.8	271.46 2591 F112.4	271.43 2708 F0.6	<del>271.43</del>
------	------------------------	------------------------	------	-----------------------	--------------------------	------------------------	-------------------

0+40	282.20 2820 F0.2	2834 281.96 C1.4	1+80	272.1 2715 F0.6	272.07 2599 F12.2	2725 272.04 C0.5
------	------------------------	------------------------	------	-----------------------	-------------------------	------------------------

END 0+05 CURBS	285.06	284.74	1+70	272.5 2720 F0.5	272.53 2611 F11.4	2733 272.49 C0.8
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Montclair 0+00			1+50	273.6 2730 F0.6	273.59 2616 F7.8	2749 273.54 C1.4
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SWBP 286.46 Maple & Montclair



Maple Vancouver to Haller

0+67.4	2706 270.31 C0.3	270.31 2691 F1.2		2741 272.26 C1.8	2723 272.3 GRADE	<del>2731</del> <del>272.26</del> <del>C1.8</del>
0+36.2	2714 270.01 C1.4	2700 270.01 GRADE	2406.2			
0+05 EC <sup>Curbs</sup>	2718 269.70 C2.1	2709 269.70 C1.2	1470 PVC	2732 271.57 C1.6		271.57 271.5 F0.1
0+00 Vancouver			1450	2729 271.19 C1.7		271.19 270.8 F0.4
<del>M.H.G. &amp; Co</del>	26985 269.40 Finish Grade C0.45		1440	2727 271.06 C1.6		271.06 270.6 F0.5
3+14.60 BC <sup>Vancouver</sup>	2714 269.80 C1.6	2731 270.00 C3.1	1430 PVC	2725 270.92 C1.6		270.92 270.1 F0.8
2+83.2	270.24 2696 F0.6	2723 270.36 C1.9	0+98.6	2710 270.62 C0.4		270.62 2693 F1.3



Vancouver  
Maple to Kalmia  
3877-D

36

2+00 270.4 270.40  
2695 2577  
F0.9 F1.27

2709  
270.90  
GRADE

1+80 PVC 270.3 270.32  
2693 2645  
F1.0 F1.18

2711  
270.82  
C0.3

1+36.1 270.5 270.14  
270.1 2662  
C0.4 F0.9

2715  
270.57  
C1.0

Walker  
3+15.26 Bc

2755  
274.32  
C1.2

2743  
274.32  
GRADE

0+92.4

269.97  
2659  
F4.1

2719  
270.33  
C1.6

2+78.6

2751  
273.64  
C1.5

2735  
273.64  
F0.1

0+48.7

269.79  
2697  
F0.1

2726  
270.09  
C2.5

2+42.4

2746  
272.95  
C1.6

2730 272.95  
2729 GRADE  
F0.1

EL  
0+05 CURB

2708  
269.62  
C1.2

2729  
269.85  
C3.0

0+00 Maple



4+20	269.13 2687 F0.4	2721 269.63 C2.5	6+15 CBC Right	266.70
3+80	269.36 2693 F00.1	2728 269.9 C2.9	5+75.26 CBC Left	268.4 267.50 C1.1 2714 267.71 C3.7
3+40	269.59 2681 F1.5	2725 270.09 C2.4	5+60 EVC	2693 267.60 C1.7 2708 268.10 C2.7
3+00	269.82 2684 F1.4	2718 270.3 C1.5	5+30	268.32 2655 F2.8 2704 268.82 C1.6
2+60	270.6 270.1 C0.5 270.05 2632 F6.9	2715 270.55 C1.0	5+00 PXC	268.67 2661 F2.6 2707 269.17 C1.5
2+20 EVC	270.3 2698 F0.5 270.28 257 F13.6	2706 270.78 F0.2	4+60	268.90 2672 F1.7 2716 269.40 C2.2



Vancouver  
Maple North to D.E.

38

1+00 266.7 266.71 2711  
2661 266.61  
F0.6 F 3.3 C4.5

0+80 268.0 267.98 2719  
2673 267.88  
F0.7 F 1.6 C4.0

0+60 268.8 268.77 2724  
2682 268.67  
F0.6 F0.3 C3.7

0+40 PVC 269.1 269.11 2723  
2689 269.01  
F0.2 C3.3

0+05 <sup>BL</sup> 269.4 269.40 2720  
2693 C 2.1 269.30  
F0.1 C 2.7

0+00 Maple

2+00 Toe 254.00 2585  
2506 255.00  
F 3.4 C 3.5

1+80 PE 262.75 262.75  
EVL 2550 261.5  
F 7.8 F 1.3

1+55 263.10 2649  
2586 263.00  
F 4.5 C 1.9

1+20 265.0 265.00 2705  
2648 264.88  
F0.2 F 3.6 C 5.6



Haller  
Maple to the South

3878-D

39

1+00PK	2729 271.32 C 1.6	2716 271.32 C 0.3		
0+68.2	2739 272.34 C 1.6	2727 272.28 C 0.4		
0+36.6	2746 273.36 C 1.2	2734 273.24 C 0.2	1+80PE	2716 266.41 C 5.2 2680 266.41 C 1.6
0+05 <sup>BC</sup>	///	2744 274.20 C 0.2	1+60	2715 269.08 C 3.4 2691 268.08 C 1.0
0+00	2758 274.54 C 1.3	///	1+40	2724 269.45 C 2.9 2702 269.45 C 0.7
0-30 <sup>Maple</sup> Lt ONLY	2761 275.33 C 0.8	///	1+20	2724 270.53 C 1.9 2710 270.53 C 0.5



Holler  
Maple North to Pond End

1+39.15 END	2762 275.90 C 0.3	
0+44.15	2763 275.60 C 0.7	2769 276.30 C 0.6
0+67.27	2763 275.24 C 1.1	2770 276.55 C 0.4
0+29.21	2759 274.97 C 0.9	2766 276.10 C 0.5
0+05	2751 274.74 C 1.0	<del>1111</del>
0+00	<del>1111</del>	2761 275.77 C 0.3



Roberts Grade Stakes For Alley  
 Vale Way To Trojan  
 12918-L

no. 62935

#5  
 380.50  
 380.41  
 F0.09

#4  
 380.60  
 380.47  
 F0.13

#3  
 380.60  
 380.27  
 F0.33

#2  
 380.50  
 380.47  
 F0.03

#1  
 380.30  
 379.89  
 F0.41

# Exist cb  
 Vale Way 380.53

For curbs the curb grade is shown.

ON RIGHT  
 END RET. WALL 379.34  
 0+89.30 379.09  
 F0.25

0+65 <sup>↑</sup> Fav. 379.52  
 379.41  
 F0.11

0+39.84 EC CB 379.90  
 379.68  
 END CURB ON LEFT C0.32

#9 PRE 380.30  
 379.87  
 F0.43

#8 380.35  
 380.13  
 F0.22

#7 380.40  
 380.18  
 F0.22

#6 380.62  
 380.45  
 C0.17

#1

382.54  
 379.23  
 C 3.31

382.62  
 379.50  
 C 3.12

<sup>↑</sup> Fav. 382.36  
 379.75  
 C 2.61

BEGIN RET. WALL 381.69  
 END CURB ON RIGHT CB 380.44  
 0+14.30 EC Alley C 1.25

381.69  
 #1 B St. CB 380.85  
 C 0.84



2+25

37849  
378.51  
C 0.18

378.34  
37783  
F051

2+00

378.50  
37821  
F0.29

378.50  
37782  
F0.68

1+75

37927  
378.69  
C 0.58

378.67  
37773  
F094

1+50

378.88  
37826  
F0.62

37914  
378.83  
C0.31

1+25

379.07  
37852  
F0.55

37922  
379.00  
C0.22

2+120 Trojan 377.95

378.00

400

379.26  
37888  
F0.38

38177  
379.16  
C 2.61

2+46.02 BRK

37937  
378.08  
C 1.29

37842  
378.20  
C 0.22



Roberts

7-3-57

M.P. 32636

Curb Grades 49th Street

Univ. Ave. So. to D.E.

43

1+20 PVC	324.28 323.97 F 0.31	322.75 322.38 F 0.37	2+40 EVC	326.64 321.52 F 0.12	320.14 319.78 F 0.36
0+95	323.47 323.14 F 0.33	321.91 321.74 F 0.17	2+20	322.99 322.78 F 0.21	321.49 321.27 F 0.22
0+70	322.65 322.42 F 0.23	321.08 320.95 F 0.13	2+00	323.98 323.68 F 0.30	322.48 322.25 F 0.23
0+45	321.83 321.18 F 0.65	320.24 319.98 F 0.26	1+80	324.60 324.48 F 0.12	323.10 322.90 F 0.20
0+20 BRK	321.01 320.83 F 0.18	319.41 319.35 F 0.06	1+60	324.86 324.75 F 0.11	323.35 323.25 F 0.10
UNIV 0+00 Exist Curb	320.35 ✓	318.94	1+40	324.76 324.60 F 0.16	323.23 323.12 F 0.11



cul de Sac

309.50

44

PRC

31239  
311.58.  
C 0.81

31110  
310.91  
C 0.19

#6

309.60  
309.24  
F 0.36

3+51.95 BC

31282  
312.30  
C 0.52

311.52  
311.23  
F 0.29

#5

309.52  
309.04  
F 0.48

3+40

31372  
313.49  
C 0.23

312.44  
312.12  
F 0.32

#4

310.50  
309.58  
C 0.92

3+20

31547  
315.37  
C 0.10

313.98  
313.98  
GRADE

#3

31303  
309.80  
C 3.23

#9

310.54  
310.32  
C 0.22

3+00

31707  
317.02  
C 0.05

315.52  
315.19  
F 0.33

#2

31413  
310.17  
C 3.96

#8

309.90  
307.99  
F 1.91

2+70

3  
319.33  
319.51  
C 0.18

317.83  
317.55  
F 0.28

#1

31482  
310.75  
C 4.07

#7

chisel  
cross

309.72  
309.45  
F 0.27



Roberts  
7-8-57  
W.O. #30646

Curb Grades Orange Ave.  
Bridge to 54th

3556-D

0+27.35

EC ON ORANGE  
0+00

#3

#2

#1

EC ON 54TH

See GB 369 pg 64

45

1+54.7

1+34.7

1+14.7

0+94.7

0+74.7

0+54.7 PVC

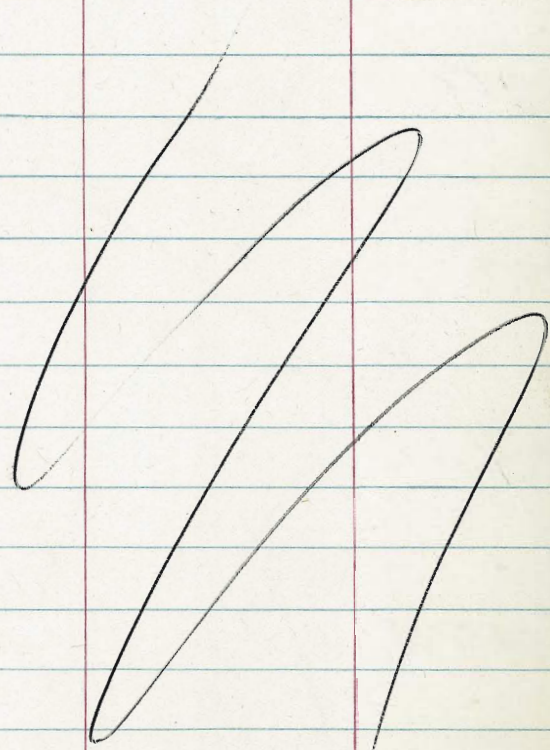


2+34.7

2+14.7

1+94.7

1+74.7



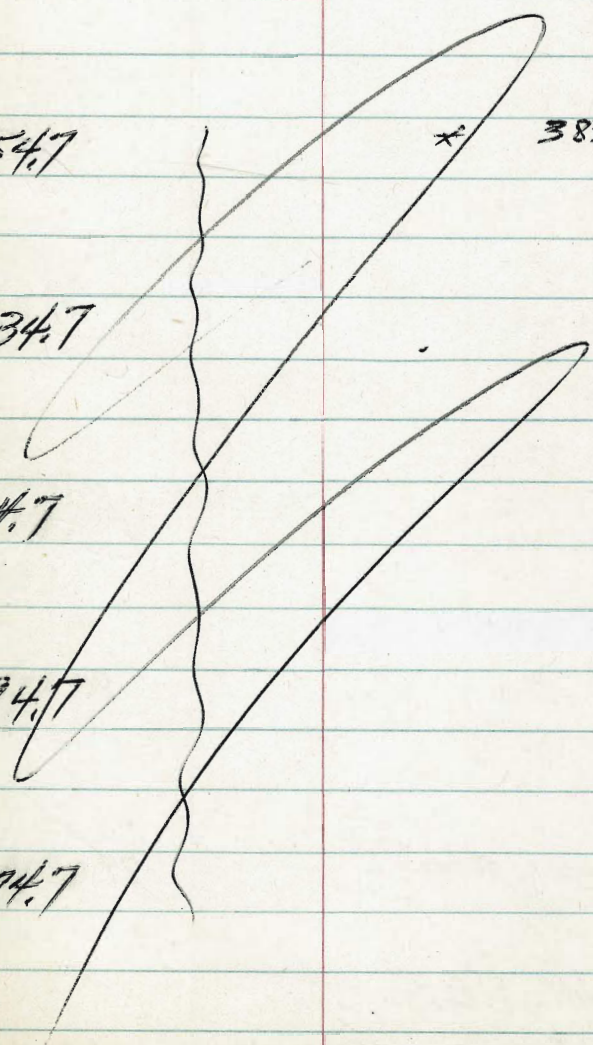
4+54.7

4+34.7

4+14.7

3+94.7

3+74.7



\* 383.55



Roberts Stakes For Lower  
7-16-57 Pardee & "K"  
W/O #32725 4080-L

47

1+30

87.07  
81.90  
C 5.17

2+75

92.28  
86.50  
C 5.78

1+05

86.90  
81.46  
C 5.44

2+50

90.96  
85.38  
C 5.58

0+80

86.70  
81.01  
C 5.69

2+25

89.56  
84.25  
C 5.31

0+55

86.53  
80.57  
C 5.96

~~W/O #32725~~ W/O #32725 Pardee & "K"  
2+04.28

88.81  
83.32  
C 5.49

0+30

86.35  
80.12  
C 6.23

1+80

87.81  
82.79  
C 5.02

0+05 W/O #1 Pardee & "L"

86.02  
79.68  
C 6.34

1+55

87.28  
82.35  
C 4.93

0+00 Exist. D.E.

BM 87.45 SWL DECT. Pardee & "K"



4+25

10565  
91.60  
C 14.05

5+86.73 D.E.

9959  
92.25  
C 7.34

4+00

10196  
91.50  
C 10.46

5+50

10425  
92.10  
C 12.15

(To East in Alley)

3+74.73 ~~11#3~~ RAlley ER 4  
 9948  
 90.99  
 C 8.49

9948  
 91.40  
 C 8.08

5+25

10524  
92.00  
C 13.24

3+50

9787  
89.88  
C 7.99

5+00

10622  
91.90  
C 14.32

3+25

9611  
88.75  
C 7.36

4+75

10777  
91.80  
C 15.97

3+00

9353  
87.63  
C 5.90

4+50

10753  
91.70  
C 15.83



H12 DE

106.18  
93.39  
C 12.79

0+84

104.86  
92.79  
C 12.07

0+56

102.52  
92.19  
C 10.33

0+28

99.90  
91.59  
C 8.31

0+00 N14#3

(To West in Alley)90.99  
C 8.49







35<sup>th</sup> to Pardee

51

74.05

74.09

9101  
9461  
7562  
7751

~~72,42 Disc & Franklin  
& 35<sup>th</sup>~~

~~73,44 Disc & Pardee  
& Franklin~~

~~92,62 Disc & 36<sup>th</sup>  
& Franklin~~

143.23 <sup>BC</sup> ~~St. 74.34~~ <sup>74.38</sup> ~~74.05~~ <sup>74.09</sup>  
C 0.04 GRADE 7386 7386  
F 0.19 F 0.23

1400 7483  
74.32  
C 0.61 74.10  
74.05  
F 0.65

0+80 7478  
74.21  
C 0.57 74.31  
74.06  
C 0.25

91.79 91.25  
0+60 P/C 7463  
74.01 74.15  
C 0.62 73.94  
C 0.21

2+34.49 <sup>36<sup>th</sup></sup> ~~BC~~ 9075 9066  
91.01 90.50  
F 0.26 C 0.16  
0+35 7408  
73.70 7374  
C 0.38 73.74  
GRADE

2+10 8837 8821 7348  
87.81 87.45 73.40  
C 0.56 C 0.76 C 0.08  
0+10 <sup>35<sup>th</sup></sup> ~~BC~~ // 73.55  
73.38  
F 0.17



1780

74.18  
7379  
F0.4073.68  
7304  
F0.64

1760

74.26  
7398  
F0.2873.77  
7312  
F0.65

1740

7436  
74.27  
C0.0973.94  
7327  
F0.67

1732.23 <sup>EL ST. 74.30 alley</sup> <sup>7434</sup> <sup>74.34</sup> <sup>ST. 73.99 alley</sup> <sup>74.04</sup>  
 C0.08 C0.04 7333 7333  
 F0.66 F0.71

END RETURN

7477  
74.50  
C0.2774.20  
7369  
F0.57

Pardee  
2+34.73 BC 73.75  
7371  
F0.04

73.20  
7302  
F0.18

END RETURN

7457  
74.54  
C0.0374.75  
7442  
F0.33

2+00 EVC 74.04  
7369  
F0.41

73.54  
7301  
F0.53



Francis to 35<sup>th</sup>

BC St. 66.15 alley 66.26 St. 65.85 alley 65.96  
 1+28.14 alley 6576 6576 6577 6577  
 F0.39 F0.50 F0.08 F0.19

2+20

7006  
 70.04  
 C0.02

7000  
 69.73  
 C0.27

1+15

65.72  
~~64.82~~  
 F0.90

65.42  
~~64.94~~  
 F0.48

1+95

6901  
 69.01  
 GRADE

6895  
 68.71  
 C0.24

0+95

64.82  
 6373  
 F1.09

64.55  
 6433  
 F0.22

1+70

6799  
 67.99  
 GRADE

6785  
 67.68  
 C0.17

0+75 PVC

63.76  
 6287  
 F0.89

63.60  
 6349  
 F0.11

1+47.14 alley

St. 67.04 alley 67.00 St. 66.74 alley 66.70  
 6689 6689  
 6696 6696 C0.15 C0.19  
 F0.18 F0.14

0+42.5

62.90  
 6158  
 F1.32

61.98  
 6187  
 F0.11

END RETURN

6815  
 67.16  
 C0.99

6810  
 66.86  
 C1.24

BC 0+10 Francis

6048  
 60.05  
 C0.43

6080  
 60.36  
 C0.44

END RETURN

6762  
 66.12  
 C1.10

6612  
 68.12  
 6586  
 C0.26

BM 58.90 SW 7'ld Disc Franklin & Francis



2+65.28<sup>BC</sup>  
35.44  
11

7201  
71.90  
C 0.11

7183  
71.61  
C 0.22

2+45

7115  
71.06  
C 0.09

7095  
70.76  
C 0.19



Roberts Curb Grades Haller Street  
7-19-57  
N.O.# 32722  
DE to DE  
3878-D

55

#5 EL

27640  
276.40  
GRADE

#11

27586  
275.82  
C0.04

#10

276.00  
275.44  
F0.56

#4

27641  
276.30  
C0.11

#9

27623  
276.15  
C0.08

#3

27632  
276.20  
C0.12

#8 BC.

27642  
276.30  
C0.12

#2 BC

27620  
276.10  
C0.10

#7

276.60  
276.36  
F0.24

#1 North line of slope extended

275.77  
275.75  
F0.02

#6

27664  
276.55  
C0.09



#17BC	27528 275.08 C0.20	#23	27455 274.44 C0.11
#16EC	27540 275.24 C0.16	#22	27463 274.56 C0.07
#15	<del>27532</del> <sup>32</sup> 27488 F0.44	#21	27470 274.67 C0.03
#14PRC	27540 27468 F0.72	#20BC of Return NW Corner Maple & 1st Ave	27483 274.78 C0.05
#13	27598 275.52 C0.46	#19	27512 274.97 C0.15
#12	27575 275.68 C0.07	#18	27521 275.02 C0.19



0+00	274.54 274.54 GRADE	0+05 BC on stiles	274.32 274.07 F0.25	1+40	269.45 269.42 F0.03	269.49 269.45 C0.04
		#3	274.40 274.34 F0.06	1+20	270.62 270.53 C0.09	270.65 270.53 C0.12
0-30	275.33 275.28 F0.05	#2	274.40 274.38 F0.02	1+00 PK	271.44 271.32 C0.12	271.44 271.32 C0.12
		#1	274.39 274.30 C0.09	0+75	272.13 272.09 F0.04	272.14 272.07 C0.07
		El on Maple	274.35 274.20 C0.15	0+50	272.99 272.93 C0.06	273.05 272.83 C0.22
		#24 El on Maple	274.36 274.32 C0.04	0+25	273.80 273.74 C0.06	273.59 273.55 F0.04



Vancouver  
Maple North to DE  
3877-D

			26911	26903
			269.11	269.01
			GRADE	C0.02

			26943	26965
			269.40	269.30
			C0.03	C0.35

			26952	26966
			269.50	269.40
			C0.02	C0.26

			26970	26970
			269.60	269.50
			C0.10	C0.20

				26970
1480 DE,	26684	26660	#1	269.70
	266.41	266.41		269.60
	C0.43	C0.19		C0.10

				26970
1460	268.08	26820	EC on Maple	269.80
	267.94	268.08		269.68
	F0.14	C0.12		F0.12
				F0.02



PRC #1	26400 263.62 C0.38	#11 263.48 26335 F0.13	#7	26284 262.80 C0.04	
1+30.5   BL Turnaround	26433 264.20 C0.13	26415 264.00 C0.15	#6	262.75 26260 F0.15	
1+20	265.00 26492 F0.08	26492 264.88 C0.04	#5	262.88 26286 F0.02	
1+00	26671 266.71 GRADE	26681 266.61 C0.20	#4	263.00 26297 F0.03	#10 26345 263.20 C0.25
0+80	26808 267.98 C0.10	26795 267.88 C0.07	#3	26347 263.10 C0.37	#9 26308 263.00 C0.08
0+60	268.77 26874 F0.03	26880 268.67 C0.13	#2	26365 263.25 C0.40	#8 26296 26290 C0.06



Vancouver  
Maple to Kalmia

0+34.16 0+38.16	26989 269.75 <del>269.75</del> C0.14	27003 270.03 <del>270.03</del> 269.50 F0.53	200	270.40 270.33 F0.07	270.90 270.50 <del>270.40</del>
0+05 BC 04 Vancouver	26994 269.62 C0.32	269.85 269.47 F0.38	480 P/c	270.32 270.16 F0.16	270.82 270.60 F0.22
#3	26975 269.57 C0.18	269.80 269.56 F0.24	1450.80 1+50.80	270.20 269.90 F0.30	270.67 270.29 F0.38
#2	26975 269.52 C0.23	269.80 269.68 F0.12	1421.64 1+27.67	270.09 269.96 <del>F0.03</del> F0.13	270.51 270.10 F0.41
#1	26978 269.65 C0.13	270.10 269.95 C0.15	0+92.48 0+92.48	269.97 269.75 F0.22	270.35 270.04 F0.31
C EC on Maple	26984 269.70 C0.14	270.00 269.80 F0.20	0+63.32 0+63.32	269.86 269.80 F0.06	270.19 269.82 F0.37



360  
~~3+60~~269.60  
269.47  
C0.13269.97  
269.90  
F0.07

5+30

268.32  
268.25  
F0.07268.82  
268.39  
F0.43332  
~~3+32~~269.68  
269.63  
C0.05270.13  
269.98  
F0.15

5+00 PVC

268.67  
268.45  
F0.22269.17  
268.90  
F0.27304  
~~3+04~~269.79  
269.56  
F0.23270.29  
270.00  
F0.29472  
~~4+72~~268.83  
268.77  
F0.06269.33  
269.13  
F0.20

2+76

269.95  
269.72  
F0.23270.45  
270.09  
F0.364+44  
~~4+44~~269.12  
268.99  
C0.13269.49  
269.21  
F0.28

2+48

270.11  
270.02  
F0.09270.61  
270.19  
F0.42

4+26

269.45  
269.15  
C0.30269.65  
269.47  
F0.18

6 2+20 PVC

270.32  
270.28  
C0.04270.78  
270.50  
F0.28

3+88

269.42  
269.31  
C0.11269.88  
269.81  
C0.07



Maple  
Montclair to Vancouver  
3876-D

62

				1+40	27440 274.18 C0.22	274.13 274.13 GRADE
#3 EXT	266.39			1+20 PVC	27567 275.67 GRADE	275.60 275.53 F0.07
#2	266.84 266.70 C0.14	26+15 cb BE	266.70 266.51 F0.19	0+91.25	278.02 277.92 F0.10	277.88 277.67 F0.21
#1	267.17 267.00 C0.17	6+00	267.10 267.00 F0.10	0+62.5	280.37 280.27 F0.10	280.16 279.95 F0.21
5+75.26 cb on Left	267.30 267.24 F0.06		267.71 267.63 F0.08	0+33.75	282.72 282.48 F0.24	282.44 282.33 F0.11
5+60 ENC	267.68 267.60 C0.08		268.10 268.00 F0.10	0+05 END Curb Montclair	285.06	284.74



2+00      27164  
 271.46      271.43  
 C 0.18      271.21  
                  F 0.22

1+80      27239  
 272.07      272.04  
 C 0.32      271.94  
                  F 0.10

3+1460 EC      269.80      270.00  
 269.10

1+7180<sup>BC</sup> RT      \* 27239      272.55  
 left 1+70      272.85      272.22      272.22  
 272.53      F 0.17      F 0.35  
 C 0.32

2+9125      27004      270.27  
                  270.12      270.27  
                  F 0.08      GRADE

END CURB RT      27310  
                  272.82  
                  C 0.28

2+675      27050      270.57  
                  270.45      270.55  
                  C 0.05      C 0.02

END CURB RT      27507  
                  273.87  
                  C 1.70

2+4375      27096      270.66  
                  270.77      270.82  
                  C 0.19      F 0.16

left 1+50      27385  
 273.59  
 C 0.26

1+4780<sup>BC</sup> RT      \* 27373      273.73  
 273.66      273.58  
 C 0.07      C 0.15

2+20 EVC      27125      271.10  
                  271.10      C 0.15

271.10      271.10  
 GRADE



Maple  
Vancouver to Haller

1+30 Pk

270.92  
27078  
F0.14

270.92  
27085  
F0.07

2+29.3

272.69  
27265  
F0.04

27272  
272.69  
C0.03

1+05

270.66  
27059  
F0.07

270.66  
27057  
F0.09

2+00.7

272.15  
27205  
F0.10

27218  
272.15  
C0.03

0+80

270.42  
27042  
GRADE

270.42  
27037  
F0.05

BC 271.61 alley 271.61  
27125  
1+72.3 Alley F0.36 F0.36

27161  
271.61  
GRADE GRADE

0+55

270.18  
26996  
F0.32

270.18  
27010  
F0.08

END RETURN

27357  
271.90  
C1.67

271.90  
27159  
F0.31

0+30

270.16  
26994  
F0.22

270.03  
269.94  
C0.09

END RETURN

27291  
271.52  
C1.39

271.52  
27080  
F0.72

0+05 ch  
BC  
Vancouver

269.70

269.70

BC 271.33 alley 271.33  
27117 27117  
1+48.13 Alley GRADE F0.16

27117 alley 271.33  
27113 27113  
F0.04 F0.20



3+15.26<sup>BC</sup>  
Haller

274.32

274.32

2+86.5

273.77  
273.63  
F0.14

273.77  
273.68  
F0.09

2+57.9

273.14  
273.23  
F0.09

273.23  
273.10  
F0.13



Roberts  
Korer  
Elmore  
Fullen  
7-24-57  
W.D.#21346

Grades For Storm Drain  
MIDWAY STREET,  
Linda Rosa to La Jolla  
See 4384-D 4385-D

1+00	7588 66.67 C9.21	3+59.08 EC	8542 75.80 C9.62
0+56.24 EC	7403 65.07 C8.96	3+19.98 BC.	8406 74.70 C9.36
0+40.24 BC	7342 64.48 C8.94	2+95.10 EC	8346 73.79 C9.67
0+28 EC	7233 64.04 C8.29	2+56 BC.	8236 72.36 C10.00
0+12 BC	7182 63.46 C8.36	2+00	7997 70.32 C9.65
Connect to 0+00 Exst. B-2 Cb Inlet	63.03 ✓	1+50	7792 68.49 C9.43

BM SWBP 70.28 La Jolla  $\frac{1}{2}$  Midway



6+50

9688  
86.41  
C 10.47

8+64EC

10487  
94.56  
C 10.31

6+00

9576  
84.59  
C 11.17

8+40BC

10396  
93.68  
C 10.28

5+50

9365  
82.76  
C 10.89

8+00

10254  
92.22  
C 10.32

5+00

9144  
80.94  
C 10.50

7+50

10070  
90.40  
C 10.30

4+50

8936  
79.11  
C 10.25

9980  
→ 94.30 ← 10015  
7+31.5 2" F Cleanout 1550 ← 93.63 ← 10015  
C 6.52 C 10.43

4+00

8723  
77.29  
C 9.94

6+95.5 Special Connection  
7" K "b. Inlet

9885  
88.07 ~~87.41~~  
C 10.78



10+17BC

10978  
100.14  
C 9.67

13+00

12018  
110.47 +10.55  
C 9.71

10+09EC

10887  
99.85  
C 9.02

12+50

11850  
108.64 +10.70  
C 9.86

9+85BC

10870  
98.97  
C 9.33

12+00

11668  
106.82 +10.70  
C 9.86

9+50

10798  
97.69  
C 10.29

11+50

11472  
104.99 +10.07  
C 9.73

8+96EC

10605  
95.72  
C 10.33

11+00

11293  
103.17 +10.57  
C 9.76

8+72BC

10515  
97.72  
C 10.43

10+41EC

11079  
101.02  
C 9.77



16+00

129.97  
122.10  
C 7.87

18+50

144.47  
137.32  
C 7.15

15+50

128.26  
120.60  
C 7.66

18+00

140.64  
133.82  
C 6.82

14+99 &amp; "F" Cleanout

125.70  
117.74  
C 7.96

125.70  
119.06  
C 6.64

17+50

136.88  
130.32  
C 6.56

14+50

124.34  
115.94  
C 8.40

17+00

133.23  
126.82  
C 6.41

14+00

122.51  
114.12  
C 8.39

16+64 BRK

131.55  
124.30  
C 7.25

13+50

121.06  
~~112.29 + 08.64~~  
C 8.77

16+48 BRK

130.92  
123.50  
C 7.42



1 0+23.50 BRK

15408  
147.64  
C 6.44

1 0+13.24 EC

15392  
147.13  
C 6.79

1 0+01.50 BC

15397  
147.05  
C 6.921 19+89.02 = 0+00  
E "G" Cleanup15399  
147.05  
C 6.94

153.71

cont'd on

Page 76

1 19+50

15190  
144.32  
C 7.58

1 19+00

14814  
140.82  
C 7.32

0+36.88 E 4' Inlet.

	15488	15488
GWT.	154.03	Inn. 148.57
	C 0.85	C 6.31



Roberts  
8-13-57  
W.O. #31056

Grade Stakes for East-West  
Alley Block 31, Normal Hts.

71

12939-L

1+15	38728 387.21 C 0.07	38730 387.21 C 0.09	2+15	38777 386.91 C 0.86	38817 386.91 C 1.26
0+90	38758 387.29 C 0.29	38729 387.29 GRADE	1+90	38788 386.99 C 0.89	38755 386.99 C 0.56
0+65	38828 387.36 C 0.92	38778 387.36 C 0.42	1+65	38780 387.66 C 0.74	38741 387.06 C 0.35
0+40 EVC	38819 387.44 C 0.75	38776 387.44 C 0.32	1+40.16 Alley	38748 387.14 C 0.34	38714 387.14 GRADE
0+20	38809 387.41 C 0.67	38747 387.41 C 0.06	1+32.66 Alley	38727 386.89 C 0.38	///
0+00 E.L. 32 <sup>nd</sup> "	387.16	387.22	1+25.16 Alley W.L.	38718 387.16 F 0.02	///

BM SEBP Adams & 32<sup>nd</sup> 385.79



2+6533 <sup>W.L.</sup> ~~Barney~~

386.24

386.12

2+60

386.94  
386.43  
C0.55

386.78  
386.35  
C0.43

2+50

387.40  
386.72  
C0.68

387.07  
386.75  
C0.32

2+40 PVC

387.82  
386.84  
C0.98

387.25  
386.84  
C0.41



Roberts  
8-19-57  
N.O.\*32756

Stake Alley Block 67  
W.P. Herbert's Subdivision.

73

13225-1

1+06

37790  
376.65  
C 1.30

37708  
376.39  
C 0.69

2+62

37792  
377.80  
C 0.12

37712  
377.56  
C 0.44

0+80 EVC

37767  
376.40  
C 1.27

37694  
376.20  
C 0.74

2+36

37793  
377.60  
C 0.33

37930  
377.37  
C 1.93

0+60

37741  
376.26  
C 1.15

37692  
376.07  
C 0.85

2+10

37776  
377.40  
C 0.36

37735  
377.17  
C 0.18

0+40

37670  
376.03  
C 0.67

37692  
375.88  
C 1.04

1+84

37747  
377.20  
C 0.27

37715  
376.98  
C 0.17

0+20

37647  
375.71  
C 0.76

37708  
375.62  
C 1.46

1+58

37780  
377.00  
C 0.80

37687  
376.78  
C 0.09

N.L.  
0+00 Meade

375.41

375.31

1+32

37728  
376.80  
C 0.48

37700  
376.29  
C 0.71

375.28

B.M. N.W.B.P. 374.38 Meade ~~3854~~



4+25	37921 378.60 C0.61	37894 378.35 C0.59	5+60 BRK	37937 378.16 C1.21	37854 377.91 C0.63
4+00 BRK	37890 378.70 C0.20	37845 378.21 F0.24	5+50	37910 378.20 C0.90	37852 377.95 C0.57
3+70	37912 378.55 C0.57	37830 378.18 F0.12	5+25	37921 378.28 C0.93	37832 378.03 C0.29
3+40 BRK	37892 378.40 C0.52	37808 378.15 F0.07	5+00	37910 378.36 C0.74	37839 378.11 C0.28
3+14	37861 378.20 C0.41	37795 37780 F0.15	4+75	37850 378.44 C0.06	378.19 378.10 F0.09
2+88	37871 378.00 C0.71	37776 37752 F0.24	4+50	37900 378.52 C0.48	37836 378.27 C0.09



S.L.  
6+01.16 Monroe

377.37 ✓

377.00

5780BRK

379.34

377.93

01.41

378.35

377.65

00.70



Roberts Grades For Drain in

76

8-28-57 Midway

W.O.# 21346

4385-D

20+89.45 EC

15507  
148.82  
C 6.25

0+50

12966  
119.19  
C 10.47

20+73.26 Mid

15496  
148.27  
C 6.69

0+16.90 E.C.

12598  
118.31  
C 7.67

20+57.08 BC

15460  
147.73  
C 6.87

~~0+04.50 BC~~

118.05

20+20.66 EC

15434  
147.37  
C 6.97

0+00 = 14+99 "F" Cleanout  
See Page 69

125.70  
→ 117.74 ←  
C 7.96

20+08.97 BC

15426  
147.25  
C 7.01

4386-D

19+89.02 8" C.O.

153.99  
→ 147.05 ←  
C 6.94

21+06.92 8" G Cleanout.

149.41

(See Page 70)



3+50

13677  
125.34  
C 11.43

6+14.21 EC

14107  
130.55  
C 10.52

3+00

13492  
124.31  
C 10.61

6+00.92 BC

14475  
130.27  
C 14.48

2+50

13353  
123.29  
10.24

5+50

14444  
129.44  
C 15.00

2+00

13230  
122.26  
C 10.64

5+00

13971  
128.41  
C 11.30

1+50

13135  
121.24  
C 10.11

4+50

14130  
127.39  
C 13.91

1+00

12920  
120.21  
C 9.00

4+00

13800  
126.36  
C 11.64



2+00

15016  
141.84  
C 8.32

1+50

14749  
139.21  
C 8.28

1+00

14477  
136.59  
C 8.18

~~1+00~~

0+50

14201  
133.96  
C 8.05

~~0+50~~

0+00

↑ 139.78  
131.34  
C 8.44

6+49.8

~~6+49.8~~

0+00 "F" Cleanout

To Cb Inlet  
139.78  
133.70  
C 6.08

139.78 139.78  
132.12 131.23  
C 7.66 C 8.55

2+50

140.64

4+50

4+00

3+67 BRK

3+50

3+00

163.93  
155.56  
C 8.37

160.57  
152.51  
C 8.06

158.18  
150.50  
C 7.68

156.98  
149.71  
C 7.27

154.99  
147.09  
C 7.90

152.88  
144.46  
C 8.42



5+22.2 "G" Cleanout.

160.03

5+12.3 EC

166.55  
159.43  
C 7.12

4+87.3 BC

166.23  
157.90  
C 7.33



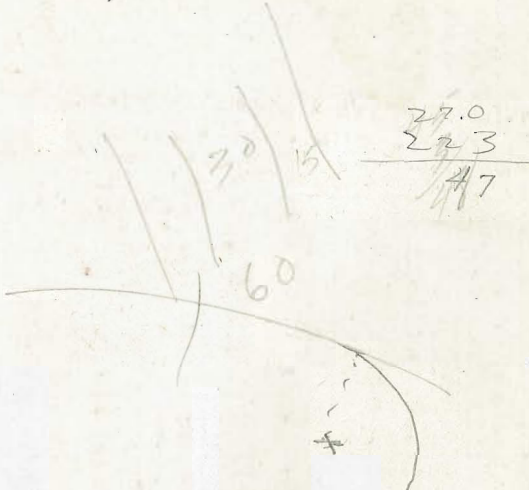
572.

5712.

4 + 87.



Mesembryanthemum



27.0  
22.3  
4.7

387.30  
47

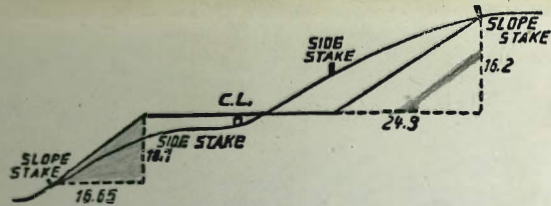
July 4

Aug 9

57

57

47



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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