

[Yellow tape strip]

#467

[Yellow tape strip]

INDEX
F.B. 467

Published by H. S. CROCKER COMPANY, Stationers, Drawing Materials, and Mathematical Instruments, San Francisco.

Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

MINUTES.	LKS.	MINUTES.	LKS.	MINUTES.	LKS.
1	2 $\frac{1}{2}$	21	49	41	95 $\frac{1}{2}$
2	4 $\frac{1}{2}$	22	51 $\frac{1}{2}$	42	98
3	7	23	53 $\frac{1}{2}$	43	100 $\frac{1}{2}$
4	9 $\frac{1}{2}$	24	56	44	102 $\frac{1}{2}$
5	11 $\frac{1}{2}$	25	58 $\frac{1}{2}$	45	105
6	14	26	60 $\frac{1}{2}$	46	107 $\frac{1}{2}$
7	16 $\frac{1}{2}$	27	63	47	109 $\frac{1}{2}$
8	18 $\frac{1}{2}$	28	65 $\frac{1}{2}$	48	112
9	21	29	67 $\frac{1}{2}$	49	114 $\frac{1}{2}$
10	23 $\frac{1}{2}$	30	70	50	116 $\frac{1}{2}$
11	25 $\frac{1}{2}$	31	72 $\frac{1}{2}$	51	119
12	28	32	74 $\frac{1}{2}$	52	121 $\frac{1}{2}$
13	30 $\frac{1}{2}$	33	77	53	123 $\frac{1}{2}$
14	32 $\frac{1}{2}$	34	79 $\frac{1}{2}$	54	126
15	35	35	81 $\frac{1}{2}$	55	128 $\frac{1}{2}$
16	37 $\frac{1}{2}$	36	84	56	130 $\frac{1}{2}$
17	39 $\frac{1}{2}$	37	86 $\frac{1}{2}$	57	133
18	42	38	88 $\frac{1}{2}$	58	135 $\frac{1}{2}$
19	44 $\frac{1}{2}$	39	91	59	137 $\frac{1}{2}$
20	46 $\frac{1}{2}$	40	93 $\frac{1}{2}$	60	140

TABLE MICROFILM SLOPES.

In the following table the first column shows the angle, the second the number of links to be added to a chain, the slopes, to make one chain, horizontal measurement.

ANGLE	COR. IN LINKS						
0		0		0		0	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07



LEVEL BOOK

No. 400 390



MANUFACTURED BY

A.S. Crocker Co.

SAN FRANCISCO
and
SACRAMENTO

Published
Materials, a

Table showing
running So

MINUTES.

1.....
2.....
3.....
4.....
5.....
6.....
7.....
8.....
9.....
10.....
11.....
12.....
13.....
14.....
15.....
16.....
17.....
18.....
19.....
20.....

T

In the follo
num
chain

ANGLE

°
4
5
6
7
8
9
10

Chemical
H. M. Thompson 5 hrs on
S. Ellis on June 26th
W. M. Wade

LEVEL BOOK

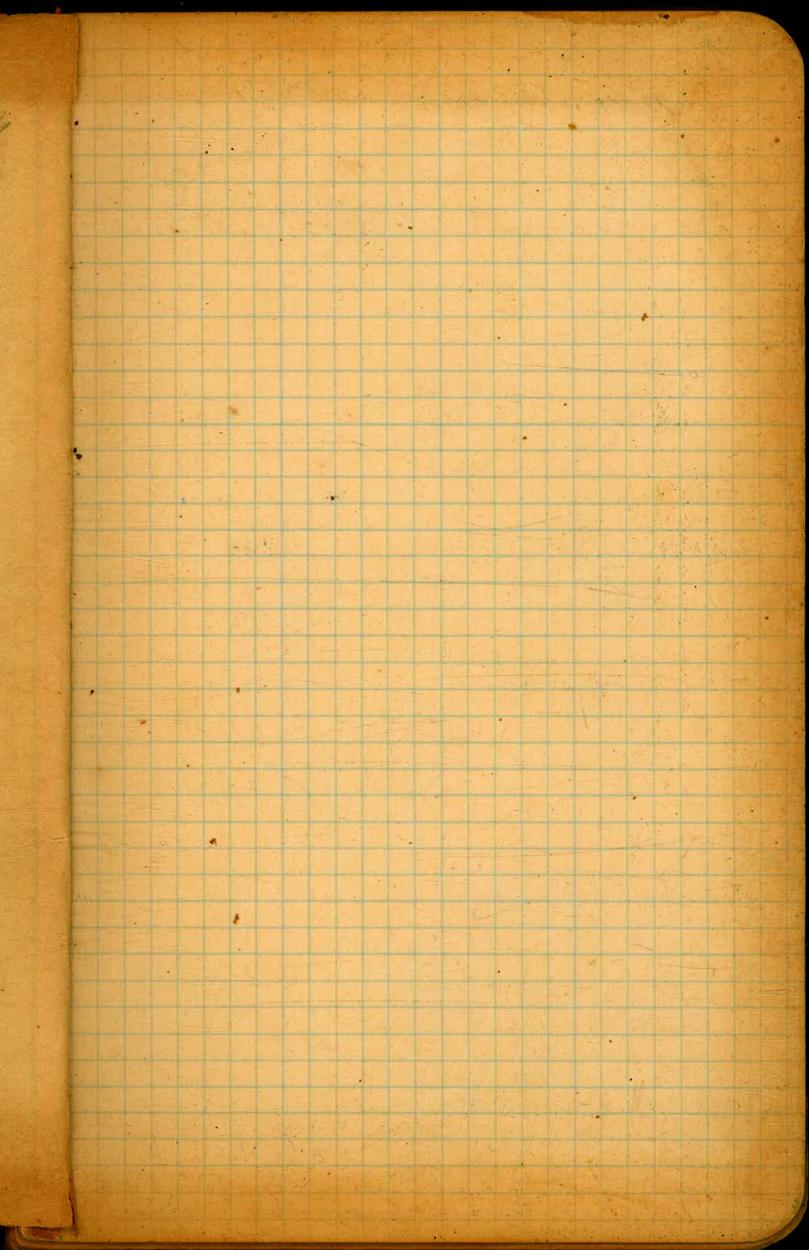
100



THE INSTITUTION

W. M. Wade

CONSTITUTED



097.5
-390.0

156.5
9 162.5
166.05

B.M. on E. St between 28 & 29th
184.69

East End Sewers 1
North of K St. 2

3.06
286
5.92

J.P.

K Street 28th west to alley

Sta.	H.I.	Rod	Ground
9+00	M.H. center 28 th	92.09	12.0 80.1
+25			11.6 80.5
+50			14.1 78.0
+75		9.2	82.9
1+00		5.9	86.2
+25		5.0	87.1
+50		3.3	88.8
+55.5	M.H. Center alley bet. 28 th & Langley	90.25	3.3 88.8
+75		2.3	89.8
2+00		1.0	91.1
+25		0.18	91.91
+50		104.18	11.9 92.8
+75		11.0	93.2
3+00		8.8	95.4
+18	(M.H.) center Langley	8.0	96.2
+25		7.1	97.1

POSTED

5.145%

5.761%

sec 16-3
sheet 20

bet. Langley & 27th June 7/09

Grade	cut			
75.00	5.1	76.28	77.57	79.28 B.M. 28 th
76.28	4.2	78.85	81.42	12.81 + L. 92.09
77.57	0.4	82.71	83.73	91.91 103.06 8.78 7.76 12.27 112.86
78.85	4.0	80.14	86.1	104.18 115.92
80.14	6.1	82.71	6.1	84.44 H.I. 1.55
81.42	5.7	83.00	5.8	82.89 T.P. 2.40
82.71	6.1	83.73	6.1	91.49 H.I.
83.00	5.8	84.67	6.4	91.91 T.P. 3.88
83.73	6.1	85.61	6.3	95.99 H.I.
84.67	6.4	86.55	5.8	
85.61	6.3	87.49	5.7	J.P.
86.55	5.8	88.43	7.0	
87.49	5.7	89.11	7.1	
88.43	7.0	89.37	7.7	

Childs
Barber
Langley

cont. from page 2.

June 8/09

Childs
Barber
Tayler

Sta.	H.I.	Rod	Ground	Grade	cut		
3 + 50	104.18	5.3	98.9	√ 90.31	8.6	90.81 10.81	101.15 = 11.1
+ 75		3.3	100.9	√ 91.25	9.7	90.31 10.84	2.23 98.92 75.73
4 + 00		1.12	103.06	√ 92.19	10.9	91.25 12.40	104.65 H.I. 1.59
+ 25	115.92	11.1	104.8	√ 93.13	11.7	92.19 12.46	73.13 11.52 103.06 J.P. 23.41
+ 50		10.45	105.47	√ 94.06	11.4	94.06 12.41	106.47 H.I.
+ 74.5	N.W. center alley bet. Tayler & 27 th	(98.85)	11.5	104.4	√ 95.00	95.00 11.44	J.P.

3.76 1/2

POSTED

Sta.	HI	Rod	Ground	Grade	cut				
K Street 28 th east to center Hill 4 up Hill 300'									
June 8/09									
Hilds Barber Taylor									
B.M. - 80.05									
8.25									
86.60									
84.04									
11.42									
95.46									
0+00	eleo St (85.50)	82.09	12.0	80.1	75.00	5.1	75.47	75.94	
							10.84	10.37	
							76.40	76.87	
							9.91	7.24	
+25			11.7	80.4	75.47	4.9			80.05
+50	b		11.0	81.1	75.94	5.2	77.24	77.81	18.78
							13.11	12.64	12.17
							78.73	79.20	
							11.72	11.25	
+75			10.5	81.6	76.40	5.2			91.39
									0.14
									91.53
									15.37
									86.14
									4.31
1+00			9.6	82.5	76.87	5.6	79.67	80.00	90.45
							10.78	10.45	
							81.58		9.07
							8.87		91.39
+25			8.7	83.4	77.24	6.1			1.34
+50			8.1	84.0	77.81	6.2	81.58	82.78	7.27
							11.16	9.96	
+75			6.4	85.7	78.28	7.4			
2+00			6.0	86.1	78.73	7.4			
+25			6.2	85.9	79.20	6.7			
+50			5.4	86.7	79.67	7.0			
+67.1	M.H. center Hill	5.81		86.28	80.00	6.3			eleo St = 84.00
+75		95.46	8.9	86.6	80.38	6.2			J.P.
3+00			8.6	86.9	81.58	5.3			
+25			8.6	86.9	82.78	4.1			
+50			7.7	87.8	83.98	3.8			

POSTED

Sta.	H.I.				
3475	9546	6.9	88.6	✓ 85.18	3.4
4700		5.2	90.3	86.38	3.9
+25		4.4	91.1	✓ 87.59	3.5
+50		2.5	93.0	88.80	4.2
+75 M.H.		3.0	95.6	✓ 90.00	5.6
5700	10958	10.7	98.9	93.00	5.9
+25		7.1	102.5	✓ 96.00	6.5
+50		4.3	105.3	99.00	6.3
+67.1 F.S.		0.1	109.5	✓ 101.0	8.5

86.28
 12.36
 141.98.64
 7.25
 91.39 = B.M. P.20

98.67
 0.48
 T.P. 98.16
 11.42
 141.109.58

91.39
 7.70
 99.09
 3.48
 95.61

92.09
 6.10
 92.99

85.18 87.59
 12.92 9.51
 90.00 96.00
 12.80 6.80
 101.0
 10.76

91.39
 4.71
 96.10 H.I.
 71.39
 11.41
 102.80
 2.42
 100.55 T.P.
 21.38
 111.76

POSTED

Alley bet. 27th and Langley from center K to F.S.

June 8/09
 Labilda Barber 6
 Taylor

Sta.	H.I.	Rod	Ground	Grade	cut		
0+00	center K Street	115.92	11.5	104.4	95.00	9.4	105.47
+25			8.6	107.3	98.16	9.1	104.5
+50			6.3	110.6	101.32	9.3	115.92
+75			2.00	113.92	104.48	9.4	118.69 J.P.
1+00		128.62	11.7	116.9	107.65	9.3	12.93
+25			9.1	119.5	110.81	8.7	128.62
+50			7.0	121.6	113.97	7.6	4.08
+75			4.0	124.6	117.13	7.5	129.54 J.P.
2+00			1.10	127.52	120.29	7.2	12.48
+25		POS 141.02	10.6	130.4	123.45	7.0	138.0
+50			8.6	132.4	126.61	5.8	11.73
+75			5.8	135.2	129.77	5.4	2.85
3+00			3.2	137.8	132.94	4.9	116.88
+25			0.20	140.82	136.10	4.7	61.6
+40	M.H.	152.80	10.6	142.2	138.00	4.2	123.04 N.I.
+50			9.9	142.9	138.52	4.4	1.41

12.667^{do}

340
 430
 12.46
 340
 900
 680
 2200
 2040
 1600
 1380
 200
 412.60
 3.16

105.47
 104.5
 115.92
 118.69 J.P.
 12.93
 128.62
 4.08
 129.54 J.P.
 12.48
 141.02
 11.73
 148.82
 152.80
 105.49 J.P.
 5.71
 117.73 N.I.
 3.81
 107.37
 7.51
 114.88 N.I.
 7.11392 J.P.
 5.81
 117.73 N.I.
 2.85
 116.88
 61.6
 123.04 N.I.
 1.41
 121.63
 9.25
 130.88 N.I.
 0.20
 130.44
 10.71
 141.15 N.I.
 144.92
 2.27
 151.19

Cont. from page 6

June 8/09 { Childs
Barber
Taylor

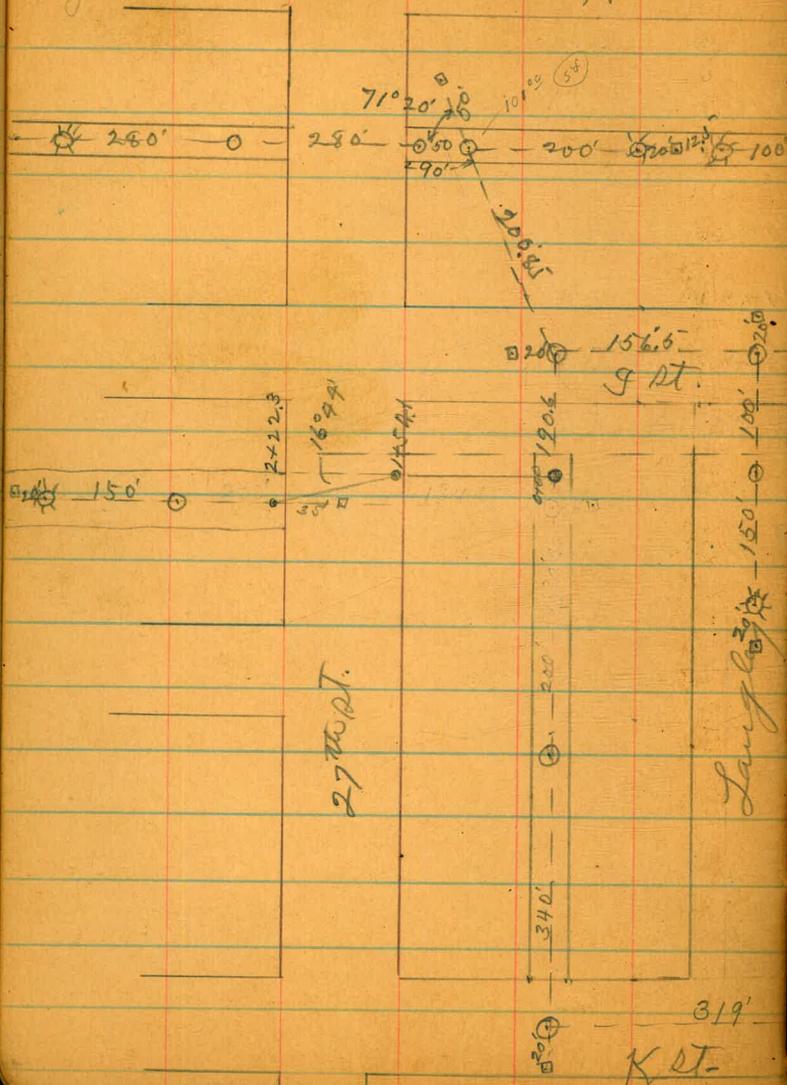
Sta.	H.I.	Rod	Ground	Grade	cut		
3+75	152.80	7.8	145.0	✓139.81	5.2		
4+00		5.6	147.2	✓141.10	6.1		
+25		4.4	148.4	✓142.40	6.0	139.81 71.38	151.9 H.I.
+50		3.3	149.5	✓143.69	5.8	141.10 10.09	142.40 8.79
+75 F.I.T.		2.5	150.3	✓145.00	5.3 →		
5+00		3.8	149.0	140.40	8.6	143.69 9.28	148.92 4.05 152.77
+25		4.71	148.09	140.77	7.3	145.00 7.97	J.P.
+40 F.I.		6.3	146.5	141.00	5.5		

POSTED

Childs
Barber
Taylor

June 8/09 @ 105° 45'

H St.

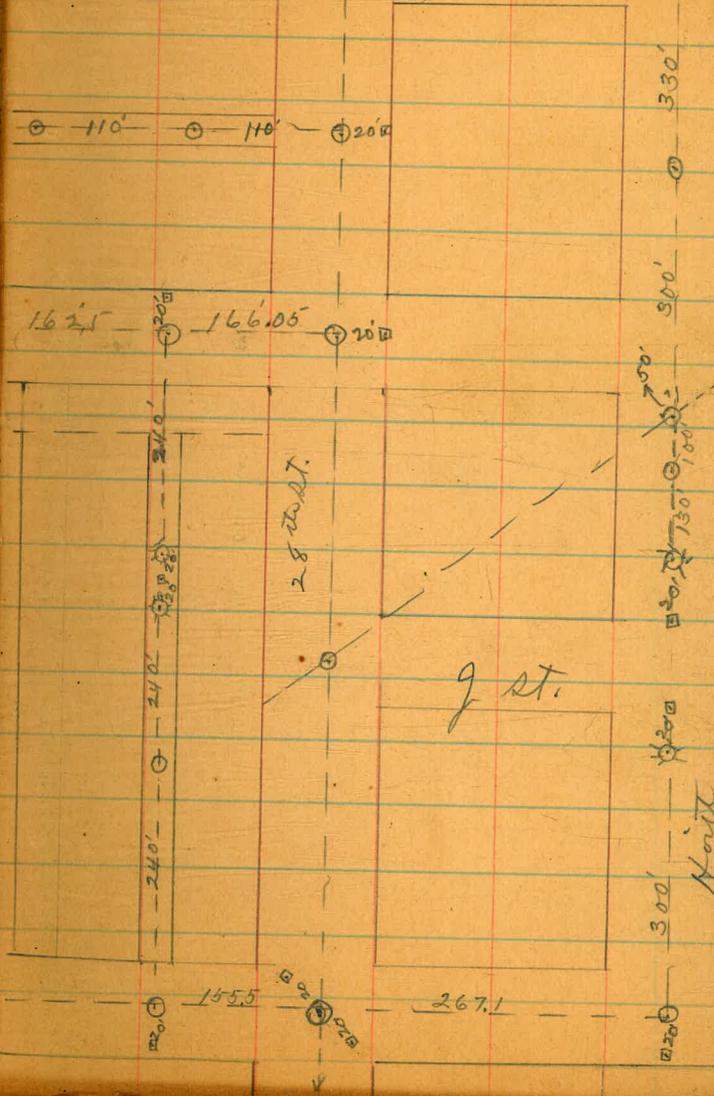


27th St.

Lang

222.3
161
237.3

8



28th St.

9th St.

North

4:

Alley bet. 28th & Langley from Sta.

Sta.	H.I.	Rod	Invent
0+00	center K. Street	103.46	14.7 88.8
+25			13.0 90.5
+50	b		12.3 91.2
+75			10.8 92.7
1+00			9.1 94.4
+25			7.7 95.8
+50	6.5 6.6	POSTED	5.6 97.9
+75			3.7 99.8
2+00			1.40 102.06
+25		113.54	9.7 103.8
+40 (M.H.)?			8.8 104.7
+50			8.2 105.3
+75			7.0 106.5
3+00			5.3 108.2
+25			3.6 109.9
+50	F.T.		2.9 110.6

center K to. F.T.

June 8/09

Lalibide Barber 9 Taylor

Grade	cut		
83.00	5.8		91.91
84.64	5.9	240/1,200	114.8
86.29	4.9	240/1,200	103.46
87.93	4.8	102.06	114.8
89.58	4.8	113.54	164
91.22	4.6	14.40	164
92.87	5.0	12.00	164
94.51	5.3	20.00	164
96.16	5.9	12.00	164
97.80	6.0	20.00	164
98.10	5.9	500	164
99.44	5.9	84.64	86.29
101.09	5.4	87.93	89.58
102.73	5.5	91.22	94.39
104.38	5.5	92.87	97.9
106.02	4.6	94.51	101.47

91.22 / 4.57 = 20.00
 92.87 / 5.0 = 18.57
 94.51 / 5.3 = 17.83
 96.16 / 5.9 = 16.30
 97.80 / 6.0 = 16.30
 99.44 / 5.9 = 16.85
 101.09 / 5.4 = 18.72
 102.73 / 5.5 = 18.68
 104.38 / 5.5 = 19.00
 106.02 / 4.6 = 23.05

91.91
 114.8
 103.46
 102.06
 114.8
 113.54
 14.40
 164
 12.00
 164
 20.00
 164
 12.00
 164
 20.00
 164
 500
 164
 84.64 86.29 87.93 94.39
 11.75 9.50 7.86 7.08
 94.39
 12.80
 113.06
 107.19
 10.33
 102.73
 113.06
 109.79
 7.04 3.27
 109.79

POSTED

June 8/09 { Childs
Barber
Taylor 10

Cont. from Page 9

Sta.	H.I.	Rfd	Ground	Grade cut
3+75	113.54	2.7	110.8	
4+00		4.0	109.5	
+25		4.1	109.4	
+50		5.79	107.75	
+75		7.7	105.8	
+80		8.4	105.1	

0.50/0

J.H.S.

J.P.

POSTED

Ist St. from inter. 28th West

L

		H.I.	Rod	Grad	Grade	Cut	
0+00	M.H. (78)	101.73	0.2	101.5	88.7	13.3	92.81 = B.M. 8.92 101.73 = H.I. 0.22 101.51 = T.P. 5.25 106.76 = H.I.
0+25			2.7	99.2	88.3	10.7	
0+50			4.9	96.8	88.4	8.4	
0+75			6.1	95.6	88.56	7.0	10.21 99.20 88.22 10.88
1+00			8.8	92.9	88.68	4.2	88.44 11.27 88.56 11.25
1+25	POSTED		7.4	94.3	88.80	5.5	88.44 11.27 88.56 11.25
1+50			6.1	95.6	88.90	6.7	88.80 10.81 89.00 10.81
1+66.05	M.H.alley (79)		4.22	97.51	89.0	8.5	89.83 12.86 90.45 11.74
1+75			3.2	98.5	89.22	9.3	91.06 11.13 91.68 10.57
2+00			1.2	100.5	89.83	10.7	93.0 10.92 93.89 10.03
2+25			0.8	100.9	90.45	10.5	24.0 10.52 10.51 465 106.1644 0.28 105.88
2+50			0.2	101.5	91.06	10.4	
2+75		106.76	4.5	102.3	91.68	10.6	
3+00			5.3	101.5	92.30	9.2	
3+25			5.9	100.7	92.91	7.8	
3+28.55	M.H. Langley St. (80)		6.2	100.52	93.0	7.5	
3+50			6.0	100.8	93.89	6.9	

POSTED

3475	10676	7.4	99.4	9493	4.5
4100		9.1	99.7	95.97	1.7
4125		6.4	100.4	97.00	3.4
4150		4.4	102.4	98.04	4.4
4175	11063	3.3	107.3	99.08	8.2
4185.05 P.H. Lacey (81)		0.00	110.63	99.5	11.1

10676 - 11.1
 4.36
 102.40.70
 8.23
 110.63 - 11.1

9389 9597
 12.27 10.19
 9804
 8.12

10107
 4.61
 10616.40

POSTED

Alley line bet. 1st and 2nd 28th

0+00 N.H. & I. St (79)	102.70	5.19	97.5
0+25		7.7	95.0
0+50		9.2	93.5
0+75		10.9	91.4
1+00		11.6	91.1
1+25		9.6	93.1
1+50		9.5	93.2
1+75		10.1	92.6
2+00 M.H.		7.6	95.1
2+25		4.0	98.7
2+50	110.97	7.3	103.7
2+75		6.0	105.0
3+00		4.1	106.9
3+25		2.5	108.5
3+50		1.0	110.0
3+75 F.T.		0.9	110.1

POSTED

1st Langley from I south
[B.M. Nail in Building 109.79]

✓89.00	8.5		
89.12	5.9	89.89	
✓89.25	4.3	89.25	
89.37	2.4	10.56	
✓89.50	1.6	89.75	
89.62	3.5	10.06	
✓89.75	3.5	89.87	90.00
89.87	2.7	8.26	8.13
✓90.00	5.1	92.44	
✓92.14	6.6	5.99	
94.28	9.4	96.42	98.56
✓96.42	8.6	11.27	9.13
✓98.56	8.3	100.78	102.84
✓100.70	7.8	11.71	9.57
102.84	7.2		105.0
105.0	5.1		7.41

POSTED

97.51 T.P.
5.19
102.70
4.04
98.66 T.P.
12.31
99.81 M.
110.97 = M.
1.18
109.79 = B.M.
Building Sta
3 + 10

T.P. 93.55
4.58
98.13 M.
0.20
97.93
98.6
107.69 M.
2.71
104.98
7.43
112.41 M.

Alley Line bet. Langley and 27 and "Sand L" St (south)

[B.M. on Pole 148.92 sta 2+40]

14

Sta	M.H.	Rod	Ground	Grade	Cut		
0+00	M.H. 2 "I" St. (81)	121.05	110.63	107.00	3.6		110.63 T.P. 10.42 121.05 = M.H.
0+25			117.4	111.39	6.0		0.89 120.16 T.P. 10.89 131.05 = M.H.
0+50		131.05	121.8	115.78	6.0		0.37 130.68 T.P. 9.79 140.47
0+75			125.5	120.17	5.3		0.20 140.27 10.77
1+00			129.8	124.56	5.2		151.04 2.12 148.92
1+25		140.47	134.1	128.95	5.4		
1+50			138.4	133.34	5.1		From page 11 105.88 13.18
1+70.8 M.H.			140.60	137.0	3.6		117.07 M.H. 0.54 118.53
1+75		151.04	141.2	137.35	3.6	115.78 9.86	7.11 125.64 M.H.
2+00			140.1	139.46	4.9	120.17 8.47	3.78 121.86 T.P.
2+25			144.1	141.58	5.5		125.64 6.01 125.59
2+30 (M.H. 16) ?			147.3	147.0	5.3		121.86 0.25 122.11 M.H.
2+50							T.P. 103.91 8.38 M.H. 112.29 9.90 12.99 125.59 12.55 138.14 M.H. 3.70 141.84 8.84 140.27 T.P. 149.14 M.H.
				115.78 6.33	111.39 10.72		
				128.95 9.19	137.00 12.11	141.58 7.53	

POSTED

Langley St from I (South)

	Ht.	Rod	End	Grade	cut					
0+90 MH (80)	108.58	8.06	100.52	93.0	7.5					100.52-T.P. 8.06 108.58-Ht 1.55 107.03-T.P. 13.06 120.09-Ht 0.34 119.75-T.P. 12.62 132.37-Ht 0.28 132.09
0+25		10.9	99.9	93.25	4.4					
0+50	b	12.9	95.7	93.50	2.2					
0+75		10.3	98.3	93.75	4.6					
1+00 MH.		9.2	99.4	94.0	5.4					
1+25	POS	3.0	105.6	99.5	6.1	93.50	94.00	95.75		10.51 T.P. 2.25 103.76-Ht 0.25 103.51 11.60 115.11 1.98 113.13 12.23 125.36 2.94 122.42 11.82 134.24-Ht
1+50		120.09	7.0	113.1	105.0	8.1	10.26	9.16	10.01	
1+75			2.5	117.6	110.5	7.1	99.50			
2+00		132.37	10.0	122.4	116.0	6.4	4.26			
2+25			3.6	128.8	121.5	7.3	110.50	116.00		
2+50 F.T.		0.28	132.09	127.0	5.1	14.86	9.36			
							121.50	127.00		
							12.74	7.24		

4425	17370	114	162.3
4450		✓ 9.2	164.5
4475		7.0	166.7
5400		3.2	170.5
5425	18430	104	173.9
54377 2746 F.T.		7.6	176.7

5377
 3873
 150

3873
 2223
 165

171.36

158.23	4.1	160.71	165.66
✓ 160.71	3.8	10.65	5.70
163.18	3.5	169.20	
✓ 165.66	4.8	✓ 1.96	
168.14	5.8		
169.40	7.3		

POSTED

Line up Canon from I St. and alley bet Langley & 27th St.
Main Line

Time	H.I.	Rod	Ground	Reading	Correction	BM	Calculation
0100 M.A. (81)	111.87	1.24	110.63	✓ 99.5	11.1	110.63	110.63
0125		2.8	109.1	✓ 99.68	9.4	111.87	111.87
0150	b	5.7	106.2	99.87	6.8	103.91	103.91
0175		8.0	103.9	✓ 100.06	3.8	103.91	103.91 = BM
1400	5	9.6	102.3	100.24	2.1	100.06	100.06
1425	POSTED	9.1	102.8	✓ 100.43	2.4	100.24	100.24
1450		7.0	104.9	100.62	4.3	100.43	100.43
1475		6.4	105.5	✓ 100.51	4.7	100.62	100.62
2100.85 M.A. (82) Alley, Bk 52		5.1	106.8	✓ 101.0	5.8	100.51	100.51
2125	111.40	5.4	106.0	101.44	4.5	101.0	101.0
2150		4.7	106.7	✓ 101.97	4.7	101.44	101.44
2175		4.1	107.3	102.46	4.8	101.97	101.97
3100	8	4.0	107.4	✓ 102.96	4.4	102.46	102.46
3125		4.1	107.3	103.45	3.8	102.96	102.96
3150		3.8	107.6	✓ 103.94	3.7	103.45	103.45
3175		2.8	108.6	104.44	4.2	103.94	103.94
4100		2.4	109.0	✓ 104.93	4.1	104.44	104.44

99.68
 + 10.58

 100.26
 100.06
 + 10.20

 110.26 = H.I.
 103.91 = BM
 6.35

 110.26 = H.I.
 103.91
 6.58

 110.49
 101.97
 8.52

 102.96
 103.94
 7.53

 104.93
 6.55

 104.93

	Alt.	Ground	Grade	Out	63375 KFO 11375	19	
4795	111.40	1.4	110.0	105.43	4.6	110.49 Alt. 1.42	
433.75 (1)	1.19	110.21	✓105.6	4.6	105.60 109.07 3.47	111.40 Alt. 1.19 T.P.	
4450	122.43	11.6	110.8	106.25	4.5	✓116.50 2.70 107.25	12.22 122.43 0.93
4795		8.7	113.7	✓107.25	6.4	9.2 112.61 2.40	121.50 = T.P. 6.03
5400		6.0	116.4	✓108.25	8.1	108.25 13.16 109.25	127.53 = Alt. 127.47 B.P.
5445	8"	3.0	119.4	✓109.25	10.1	12.16 112.57 8.34 110.25 11.16 2.27	127.82 Alt. 0.35
5450		1.4	121.0	✓110.25	10.7	117.01 119.01 2.00	127.49 1.32
5445		5.0	122.5	111.25	11.2	112.25 13.96	128.79 11.87 186.90
6100	122.53	3.3	124.2	✓112.25	11.9	113.76 11.95	2.31 119.21 Alt.
6125		1.3	126.2	113.25	12.9	114.01 11.70	
6+33.75 (10)		0.96	126.57	✓113.6	13.0	114.26 11.45 114.76	114.57 12.02
6+50 V		5.2	122.3	✓113.76	8.5	11.77	
6+75 V	8"	9.8	117.7	✓114.01	3.7	115.01 11.52	
7+00						114.51 4.70	
7+12.5 = Center Pier #1				✓114.26		114.39 4.82	
7+25 V = " " #2	3 1/2 ft 8" c. 1'			114.39			
7+50 V	129.82	11.2	116.6	114.96	11.8		
7+75		4.6	122.9	115.01	7.9		

8400	139.78	11.1	128.7
8+13.75 7.5 (45)		7.4	132.4
8+25	137.65	5.5	132.2
8+50		8.1	129.6
8+75		11.1	126.6
9+00	126.38	4.7	121.7
9+25		6.0	120.4
9+50		7.3	119.1
9+75		7.6	118.4
10+00		7.0	119.4
10+25		7.5	118.9
10+50		8.8	117.6
10+75		6.2	120.2
11+00		4.6	121.8
11+25		3.5	122.9
11+50	T.P.	2.02	124.36
11+75	135.86	9.3	126.6

B.M. COR. FENCE [127.47] 20

✓ 115.26	13.4	<u>115.26</u>	
		14.27	141.127.53
✓ 115.40	17.0	<u>115.26</u>	0.15
		14.49	127.38
115.51	16.7	<u>115.40</u>	12.90
		13.64	139.76
✓ 115.76	13.8		127.47
			1.26
			137.65
			13.64
✓ 115.76		<u>115.76</u>	128.73 = H.1
		12.97	129.01
✓ 116.01	10.6		1.37
			126.38
✓ 116.26	5.4	<u>116.01</u>	210.2
		12.72	124.36
		7.247	11.50
116.51	3.9	<u>116.26</u>	135.86
		11.97	
✓ 116.76	2.3		H.126.53
			27/ 127.47
			2.28
117.01	1.8	<u>116.76</u>	
		11.76	124.36
			2.46
✓ 117.26	2.1	<u>117.01</u>	H.129.75
		10.97	126.52
			127.47
			3.57
117.51	1.4	<u>117.26</u>	H.131.06
		8.26	
			118.76
✓ 117.76	F.02	<u>117.51</u>	7.46
		13.00	H.134.36
			7.40
118.01	2.2		H.137.76
✓ 118.26	3.5		
118.51	4.4		
✓ 118.76	5.6		
119.01	7.6		

POSTED

117.93.16	M.H. (44)	135.86	8.5	127.4
12+00			8.6	127.3
+25			7.2	128.7
+50			6.4	129.5
+75			6.8	129.1
13+00	8"		5.2	130.7
3+25			4.1	131.4
13+50			3.4	132.5
13+75			2.0	133.9
14+00	T.P.		1.02	134.84
14+25		143.17	7.9	135.3
14+50			4.8	136.4
14+75			6.2	137.0
15+00			6.2	137.0
15+25			5.9	137.3
15+50			4.5	138.7

✓119.2	3.2	124.2
✓124.27	3.0	124.52
✓124.52	4.2	124.77
✓124.77	4.7	125.02
✓125.02	4.1	125.27
✓125.27	5.4	125.52
✓125.52	6.3	125.77
✓125.77	6.7	126.02
✓126.02	7.9	126.27
✓126.27	8.5	126.52
✓126.52	8.8	126.77
✓126.77	9.6'	127.02
✓127.02	10.0	127.27
✓127.27	9.7	127.52
✓127.52	9.8	127.77
✓127.77	10.9	

135.86
 1.02
 134.84 = T.P.
 8.33
 143.17

124.86
 131.76

T.P. 134.84
 4.68
 141.39.52

SPK in P.C.
 F + 26.5 Sw.
 175.87

POSTED

From 50 15+19.2 run to a pt. E of E&W.
alley in BIK 35. a distance of 299. West from
W. line 27th St. thence parallel to 27th St.

to E alley in BIK 33.

22

15+43.72 M.H. (4)	143.00	3.3	139.7	128.00	11.7		TP 141.57 143 143.00 = 43.
16+00		3.4	139.6	✓ 128.57	11.0	128.57	141.57 0.40
16+25		3.8	139.2	✓ 129.12	10.1	13.70 129.12	141.97
16+50		4.8	138.2	✓ 129.67	8.5	12.85 130.22	141.57 0.31 141.88
16+75	POSTED	5.1	138.9	✓ 130.22	8.7	11.75 130.77	12.8 13.88
17+00		4.8	138.2	130.77	7.4	12.30 130.77	TP 140.83 2.24 141.74 3.57
17+25		4.2	138.8	131.32	7.5	11.20 132.97	
17+50	6"	3.6	139.4	✓ 131.87	7.5	10.10 134.07	
17+75		4.2	138.8	132.42	6.4	9.00 135.17	
18+00		4.2	138.8	✓ 132.97	5.8	7.90 136.77	
18+25		4.5	138.5	133.52	5.0	6.80	
18+50		3.2	139.8	✓ 134.07	5.7		
18+75		3.3	139.7	134.62	5.1		
19+00		3.3	139.7	✓ 135.17	4.5		POSTED
19+25		3.8	139.2	135.92	3.5		
19+50		3.7	139.3	✓ 136.27	3.0		
19+75				136.82			

1337.5

Out

21759.7

15482.65

2155.7
203
2362.7

23

19782.65 M.H. 38

143.00 2.6 140.4

137.0 3.4

137.00
6.07

20400

T.P.

2.17 140.83

137.96 3.0

112

20425

154.08 12.6 141.5

✓138.88 2.6

138.88
13.71

20450

11.5 142.5

140.00 2.5

141.12
11.47

20475

11.2 142.9

✓141.12 1.8

143.36
9.23

21400

8.0 146.1

142.24 3.9

145.60
6.99

21425

7.1 147.0

✓143.36 3.6

840
15.55
147.84
7.66

21450

6.2 147.9

144.48 3.4

150.08
13.82

21475

T.P. Ankr. 145.5

2.8 151.36

✓145.60 5.7

152.32
11.58

22400

1.9 152.7

146.72 6.0

154.60
7.65

22425

164.87 10.1 154.8

✓147.84 7.0

22450

10.1 154.8

148.96 5.8

22475

10.3 154.6

✓150.08 4.5

23400

9.2 155.7

✓151.20 4.5

23425

6.5 158.4

152.32 6.1

23450

5.5 159.4

153.44 6.0

23462.7 P.H.

20

5.1 159.8

154.60 5.2

POSTED

143.00 H.I.

21.7

140.83 = T.P.

13.25

154.08

1.55

152.53 T.P.

12.34

164.87 H.I.

143.07 H.I.

140.83

11.76

152.57 H.I.

1.23

151.36

T.P. 151.36

12.54

163.90 H.I.

154.65

7.60

161.25

157.20

11.05

154.60

7.65

157.20

11.05

154.60

7.65

157.20

11.05

154.60

7.65

157.20

11.05

154.60

7.65

157.20

11.05

154.60

7.65

157.20

11.05

154.60

7.65

157.20

11.05

154.60

7.65

157.20

11.05

154.60

7.65

157.20

11.05

154.60

7.65

Cont

T.P.M.H.
 178.54 164.87 = 14.1
 10.06 0.22
 188.60 164.65 = T.P.
 11.89
 176.04 = H.1
 16390M. 2.29
 173.75 = T.P.
 13.09
 186.84 = H.1
 0.88
 186.86
 12.56
 198.92
 0.57
 178.05 172.83
 7.56 12.30
 105.61 185.13
 4.54
 101.07

23+75	164.87	5.1	159.8	155.20	4.6		
				1.25			
24+00		4.5	160.4	✓156.45	4.0		
24+25		2.3	162.6	157.70	4.9	156.45	
						7.45	
24+50		1.7	163.2	✓158.95	4.2	158.95	
						4.95	
24+75	T.P.	0.22	164.65	✓160.20	4.4	160.20	
						3.70	
25+00	176.04	10.3	165.7	161.45	4.3	✓162.76	
						1.70	
25+25		12.4	163.6	✓162.70	0.9		
25+50 + 53 = 4 C St.	16380	8.0	168.0	163.95	4.0	165.20	
						12.64	
25+75		5.1	170.9	✓165.20	5.7	167.70	
						70.14	
26+00		3.6	172.4	166.45	6.0	171.45	
						6.39	
26+25		3.0	173.0	✓167.70	5.3	193.50	
						4.34	
26+50	T.P.	3.21	172.83	168.95	3.8		
26+75	185.13	10.5	174.6	✓170.20	4.4		
27+00		10.0	175.1	✓171.45	3.7		
				172.70			
27+43.9 = M.H. CENTER ALLEY	T.P.	6.59	178.54	✓173.50	5.0		
27+75	188.60	5.8	182.8	174.20	8.6		

POSTED

[Continued Page 41]

Alley between Hand I Sts and
From Manhole E.H.1 Rod Ground

0+00 M.H. (72)		121.00	
0+25	5	10.3	110.7
0+50		6.7	114.3
0+75	POSTED	3.3	117.7
1+00		135.57	12.5 123.1
1+25		7.3	128.3
1+50		1.7	133.9
1+75		147.29	11.5 135.4
2+00 F.T.		10.0	137.3

From M.H. (72) West

0+00		111.87	5.1 106.8
0+25 = B.M.	5	7.96	103.91
0+50 M.H. (73)		5.4	106.5
0+75		2.0	109.9
1+00		123.26	7.1 116.2

26th & 28th Sts.

Grade Cut

101.0	
104.87	5.8
108.95	5.5
112.62	5.1
116.50	6.6
120.37	7.9
124.25	9.6
128.12	7.7
132.0	5.3

111.07
9.93
121.00
4.89
116.31 = B.M.
124.81
1.30
122.92

111.87 = H.I.
0.80
111.07 = T.P.
12.19
123.26 = H.I.

107.50
8.76

102.91
6.35
110.26
1.67
108.59

111.2
119.71

102.0
8.26

107.00
12.71

104.87
7.51
112.62
12.45
120.37
104.5

107.10391
104.7
114.38 H.I.
9.53
113.85
11.22
125.07 H.I.
0.12
124.35
6.47
130.82 H.I.
2.46
128.36
16.73
145.29

128.12 132.00
12.17 8.29

H.S. Rod Ground Grade Cut

1425	123.26	2.6	120.7	V1170	3.7	117.00	119.71	
1450	135.57	8.1	127.5	1270	5.5	11.83	0.29	123.26
1475		1.1	134.5	V1270	7.5	127.00	119.42	0.05
2100	147.29	6.7	140.6	V1370	8.6	9.75	9.41	123.26
2125		1.8	145.5	V1370	8.5	127.00	128.83	12.36
2150	158.37	10.0	148.4	V1470	6.4	1.34	127.49	185.57
2175		4.1	154.3	1470	7.3	9.2	9.2	0.21
3100		1.0	157.4	V1570	5.4	13200	136.75	135.36
3125	169.05	8.5	160.6	1570	3.6	12.10	2.32	11.93
3150		8.2	160.9	V1570	2.9		134.43	147.29
3175		7.7	161.4	158.57	2.8		9.67	0.58
4100		6.4	162.7	V159.29	3.4		144.10	146.71
4125		5.1	164.0	160.00	4.0		3.58	11.66
4150		4.6	164.5	V160.77	3.8		7.14	158.87
4175		3.2	165.0	161.43	4.5		150.52	0.98
4775		1.4	167.7	V162.15	5.5		10.06	157.39
5100	177.96	7.2	170.8	162.86	7.9		187.00	11.56

	Ht. Rod Ground		Grade Cut				
5725	177.96	4.9	173.1	✓163.58	9.5	163.58	175.06
5750		4.6	173.4	✓164.29	9.1	11.48	1.67
5775		4.5	173.5	✓165.01	8.5	164.29	173.37
6100		5.2	172.8	✓165.74	7.1	10.77	4.22
6110 F.T.		5.0	173.0	✓166.0	7.0	165.01	177.59
						2 12.54	4.32
						166.00	173.27
						11.57	173.32

POSTED

Alley bet. G & H from M.H.

(45) West to 26th St.

	H.I.							
0 + 00	139.74	7.4	132.4	129.0	3.4	132.73	1.33	132.99
0 + 25 T.P.		0.89	138.89	✓ 132.73	6.2	7.59	12.65	151.67
0 + 50	150.47	7.1	143.4	136.45	7.0	140.17	7.0	138.89
0 + 75		4.4	146.1	✓ 140.17	5.9	147.62	11.50	11.58
1 + 00		1.3	149.2	143.90	5.3	147.71	127.47	150.47
1 + 25	162.08	9.8	152.3	✓ 147.62	4.7	7.26	12.85	1.03
1 + 50		7.8	154.3	151.35	2.9	162.52	140.32	129.44 T.P.
1 + 75		3.6	158.5	✓ 155.07	3.4	170.00	1.33	12.64
2 + 00 T.P.		0.23	161.85	158.80	3.0	3.76	138.99	162.08 M.H.
2 + 25	173.81	4.7	165.1	✓ 162.52	2.6	170.77	12.68	0.23
2 + 50		2.9	170.9	166.25	4.7	176.15	151.67	161.85 T.P.
2 + 75 M.H.	182.85	6.8	176.0	✓ 170.0	6.0	172.82	0.44	11.95
3 + 00		3.5	179.3	170.38	8.9	11.72	151.23	173.81
3 + 25		2.8	180.0	✓ 170.77	9.2		11.10	0.82
3 + 50		3.6	179.2	171.15	8.0		162.53	172.99 T.P.
3 + 75		5.0	177.8	171.54	6.3		0.34	9.86
4 + 05 F.F.		5.24	177.61	172.00	5.6		161.95	182.85 M.H.

POSTED

POSTED

139.78
0.89
138.89
11.58
150.47
1.03
129.44 T.P.
12.64
162.08 M.H.
0.23
161.85 T.P.
11.95
173.81
0.82
172.99 T.P.
9.86
182.85 M.H.
12.95
169.99 T.P.
2.24
170.89
10.90
160.59
160.59

Alley bet. 7" & 5" St and Main

Line 8 26th St BM, 26 + 4 = 175.87 Sta. L. P. R. 29

0400 M.H. (44)	131.63	4.3	127.3
0425		8.1	123.5
0450		8.9	122.7
0475		5.9	125.7
1400 M.H.		2.9	128.7
1425	143.82	10.4	133.4
1450		4.7	139.1
1475	156.16	11.1	145.1
1400		5.8	150.4
1425	168.20	11.1	157.1
1450		3.0	165.2
1470 FT.	179.53	9.44	170.09

POSTED

POSTED

✓119.2	8.1
✓120.2	3.3
✓121.2	1.5
✓122.2	3.5
✓123.2	5.5
129.35	4.0
✓125.50	3.6
141.65	3.5
✓147.80	2.6
153.95	3.2
160.10	5.1
165.0	5.1

170.09	124.36
11.80	7.27
181.89	131.63
0.98	0.75
180.91	130.88
5.63	12.94
186.54	143.82
10.66	0.54
175.86 ch.	143.28
131.76 M	12.88
0.87	156.16
130.89	0.82
1203	155.34
41142.92	12.86
0.63	168.20
143.20	11.10
12.78	167.10
M 155.27	0.82
154.45	12.43
12.14	179.53
166.59 M	0.47
137	179.06
165.22	8.85
5.91	167.91
M 171.13	10.82
6.13	177.09

Alley running N.S. - East of 26th St
 Intersecting inter. of alleys bet 'D' & 'E' St.

and East of 26th

0+00	M.H. (37)	17.595	9.1	166.8	✓162.60	4.2	163.40	165.97	3.83	30
0+25			8.7	167.2	✓162.86	4.2	6.20	169.60	0.97	
0+50			10.1	165.5	163.13	2.7	163.93	168.63	T.P.	
0+75	T.P.		10.22	165.77	✓163.40	2.4	✓5.67	177.20	8.57	164.65
1+00		17.822	12.8	165.2	163.66	1.7	164.45	175.99	11.34	
1+25			12.5	165.7	✓163.93	1.8	✓5.15	175.99	10.22	
1+50			11.7	166.5	164.19	2.3	164.94	165.77	12.45	
1+75			11.4	166.8	✓164.45	2.4	✓4.62	178.22	3.27	
2+00			11.1	167.1	164.72	2.4	165.52	166.04		
2+25			10.5	167.5	✓164.98	2.7	4.08	166.04	3.56	
2+50	POSTED		10.2	168.0	165.25	2.8	166.62	165.97		
2+75			9.8	168.4	✓165.52	2.9	10.54	165.97	3.39	
3+00			9.8	168.4	165.78	2.6	162.60	169.16		
3+25			9.6	168.6	✓166.04	2.6	6.56			
3+50			8.2	170.0	166.31	2.7	162.86			
3+75			7.7	170.5	166.57	3.9	6.38			
3+80	= M.H. Center Alley E & F.				✓166.62					

4+00	175.22	7.1	171.1	166.84	4.3				
+25		6.6	171.6	✓167.10	4.5	167.10		177.20	
+50		5.5	172.1	167.37	5.3 ✓	10.10			
+75	T.P.	5.00	173.22	✓167.63	5.6	167.63			
5+00		4.4	173.8	167.90	5.9 ✓	9.57			
5+25	181.20	6.4	174.8	✓168.16	6.6	168.16	168.70	8.50	T.P. 173.22
5+50		5.4	175.8	168.43	7.4	12.53	168.70		6.97
5+75		5.2	176.0	✓168.70	7.3	11.49	168.70		41.180.19
6+00		3.2	178.0	168.96	9.0 ✓	169.22 ✓			
6+25		3.0	178.2	✓169.22	9.0	10.97	169.22		
6+50		3.5	177.7	✓169.49	8.2	10.70	169.49		
6+75		2.6	178.6	✓169.75	8.9	10.44	170.02		
7+00	T.P.	1.68	179.52	✓170.02	9.5	10.19	170.28		
7+25	184.01	6.0	178.0	170.38	7.7	9.91	170.55		
7+50		6.8	177.2	✓170.55	6.6	9.64			
7+61	M.H.		177.2						
7+75		6.8	177.2	170.81	6.4				

T.P.	173.22
	2.97
	181.20
	1.68
	179.52
	4.48
	184.00
	3.10
	180.90

8+00 [Continued on Page (38) 171.08]

LINE IN ALLEY BETWEEN

0 + 00	M.H. (41)	143.17		139.7	
0 + 25	T.P.		1.60	141.57	
0 + 50		158.02	8.7	144.3	
0 + 75)		7.5	145.5	
1 + 00			6.4	146.4	
1 + 25			4.8	148.2	
1 + 50			3.6	149.4	
1 + 75			2.3	150.7	
2 + 00	T.P.		0.81	152.21	
2 + 25		164.15	9.7	154.4	
2 + 50	M.H.		8.7	155.4	
2 + 75			8.7	155.4	
3 + 00			6.4	157.9	
3 + 25			3.8	160.3	
3 + 50	T.P.		2.03	162.12	
3 + 75		172.94	10.4	161.5	

26th + 27th & D + F Sts

1360	3.7				
✓1375	4.1				
139.0	5.3				
✓1405	5.0				
1420	4.4	137.50			
✓1435	4.7	13.27			
1450	4.4	140.50			
✓1465	4.2	10.27			
1480	4.2	14350.			
✓1495	4.9	7.27			
1510	4.4	146.50			
✓1525	2.9	4.27			
1540	3.7	149.50			
✓1555	4.8	9.92			
1570	5.1	151.00			
158.5	3.0	8.42			
		15450			
		6.92			
		15700			
		11.43			
		15900			
		8.43			

143.17
 1.60
 141.57 T.P.
 11.45
 153.02
 0.81
 152.21 T.P.
 11.94
 164.15
 2.03
 162.12 T.P.
 10.42
 172.94
 141.57
 9.20
 150.77
 2.58
 148.19
 11.23
 159.42
 T.P. 162.12
 3.31
 165.43 M.H.

17294

4 + 0.0

9.9 163.0

4 + 25

161.5

4 + 50

7.5 165.4

4 + 75

5.0 167.9

5 + 0.0

T.P.

1.50 171.99

5 + 10

-0.7 173.0

✓160.0 3.00

160.00
5.43

165.43

✓163.0 2.4

163.00
2.43

171.49

1.91

173.40

166.60

6.80

164.5 3.4

166.0 5.6

✓166.6 6.4

POSTED

Alley between "C" & D St and 26th

229th St.

24

East from M.H. (34)

0100 M.H. (34)	174.85	159.80	154.60	5.20				
0123		12.6	162.2	157.72	4.5			
0150	5	8.9	165.9	161.22	4.7	POSTED		
0175		4.3	170.5	164.74	5.8			
1700	POSTED	0.53	174.32	168.22	6.1	154.60		
1725		187.35	9.9	177.4	5.7	9.30		
1750		6.7	180.9	175.22	5.7	161.22		
1775		2.5	184.8	178.72	6.1	168.22		
2100		199.00	11.4	127.6	5.4	175.22		
2125		7.9	191.1	185.77	5.3	182.22		
2150		5.5	193.5	189.27	4.2	189.27		
2475 FT.		0.97	198.05	193.00	5.0	193.00		

T.P. = 164.65
 10.20
 174.85
 0.53
 174.32
 13.03
 187.35
 1.25
 186.10
 12.90
 199.00
 198.03
 0.39
 163.51
 9.50
 H.H. 178.01
 1.02
 176.99
 9.80
 186.79 H.H.
 0.86
 180.93
 13.53
 193.96 H.H.
 0.43
 193.53
 6.29
 199.82 H.H.

West from M.H. (34)

0100 M.H. (34)		159.80	154.60	5.2			
0125	5	165.26	7.9	157.4	2.3		
0150		11.5	153.7	155.66	Fill 20		

155.13
 8.77
 155.66
 153.80
 1.86

Alley between 26th & 27th "D" and "E" st

9.77

26

East from M.H. 38

0+00	M.H. (38)	152.76	12.3	140.4
0+25			9.9	142.9
0+50	b		6.2	146.6
0+75			3.6	149.2
1+00		163.83	10.6	153.2
1+25			5.3	158.5

137.0	3.4
140.0	2.9
143.0	3.6
146.0	3.2
149.0	4.2
152.0	6.0

143.00
7.60

140.83
9.77
150.60
149
8.22
159.82 H.L.

T.P. 140.83

11.93

152.76

0.92

151.84 T.P.

11.92

163.83

0.36

163.47 T.P.

7.86

171.33

5.52

165.77

165.73

140.83 T.P.

11.92

152.82

3.52

149.30

9.77

159.25 H.L.

West from M.H. (38)

0+00	M.H. (38)	152.76	12.3	140.4
0+25	b		7.1	145.7
0+50			3.5	149.3
0+75	TED	163.83	10.6	153.2
1+00			5.9	157.9
1+25			1.1	162.7
1+51.85	M.H. (37)	171.33	4.5	166.8

137.00	3.4
141.21	4.5
145.42	3.9
149.63	3.6
153.84	4.1
158.05	4.6
162.60	4.2

141.21
77.61

149.63

9.62

153.84

5.41

POSTED

Alley between E and F - 26th

827th St.

37

West from M.H. (A)

0+00 M.H. (A)	148.77	4.00	139.8	128.0	11.8	
0+45		7.6	136.2	128.06	7.9	
0+50	b	12.0	131.8	✓128.53	3.3	
0+75 M.H.		11.5	132.3	✓128.8	3.5	
1+00	POSTED	8.6	135.2	✓132.32	2.9	
1+25		3.4	140.4	✓135.85	4.6	
1+50		154.52	8.5	146.0	139.37	6.6
1+75			5.7	148.8	✓142.90	5.9
2+00			3.4	151.1	146.42	4.7
2+25	T.P.	0.36	154.1	✓149.95	4.1	
2+50		165.39	8.5	156.9	153.47	3.4
2+75 F.T.		3.09	162.30	✓157.00	5.3	

12826	141.57 T.P.	141.57
13.81	0.00	2.20
	142.07	143.77
	1.72	2.77
12853	140.35	143.00 T.P.
18.54	12.54	11.52
	152.89	154.52
12880	1.03	0.36
13.27	151.86	154.16 T.P.
	8.88	11.23
132.32	160.74	165.39 = M.
9.75		
185.80		
6.22	157.00	
142.70	3.74	
9.99		
	149.95	
	10.79	

POSTED

Extended W to N & S alley

See Map

Alley E of 26th St. from 194 (37) south from page 31

H.I. 184.01

						<u>171.08</u>	180.19
						9.11	
8+00		184.01	6.7	1773	✓171.08	6.2	180.04
						<u>171.61</u>	5.23
						8.58	185.27
8+25	b		5.8	1782	171.34	6.9	
						<u>172.14</u>	
						8.05	
8+50			6.6	1774	✓171.61	5.8	
						<u>172.67</u>	
						172.66	
8+75			6.2	1778	171.87	5.9	
						<u>173.20</u>	
						172.87	
9+00			5.9	1781	✓172.14	6.1	
						<u>173.73</u>	
						173.84	
9+25			5.2	1788	172.40	6.4	
						<u>174.00</u>	
						174.27	
9+50			4.9	1791	✓172.67	6.4	
9+75			4.5	1795	172.93	6.6	
10+00	POST		4.0	1800	✓173.20	6.8	
10+25			3.9	1801	173.46	6.6	
10+50	T.P		3.97	180.04	173.73	6.7	
10+75	F.T.		4.4	179.6	174.0	5.6	

POSTED

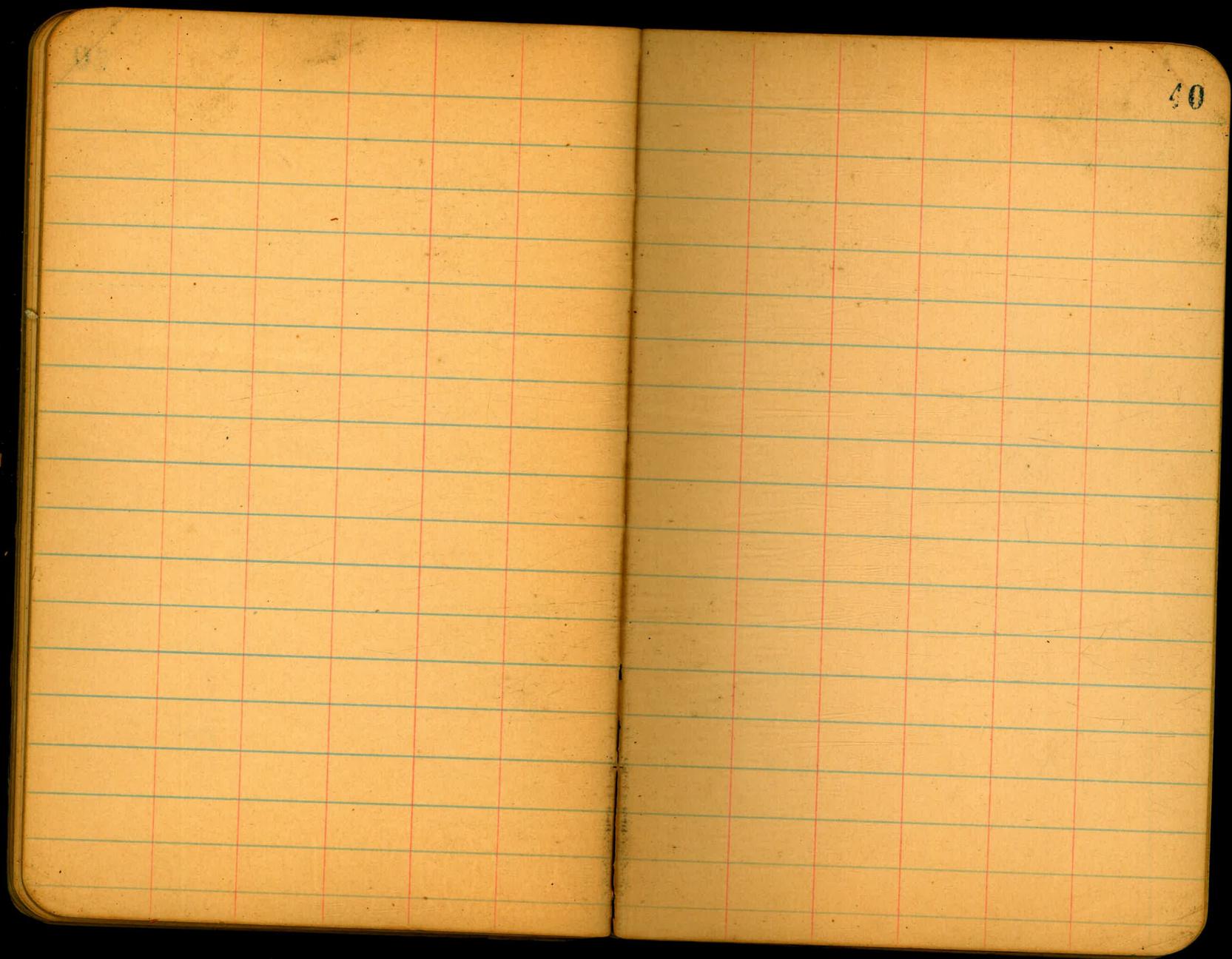
cut stakes set

Alley between B & C Riving East from M.H. Main Line (18) 39

0+00 M.H. (18)	185.13	6.59	178.54	173.50	5.04	175.27	185.13 H.I
0+25		6.0	179.1	$\sqrt{175.27}$	3.8	11.87	2.42
0+50		1.7	183.4	179.04	6.0	178.21	184.71
0+75)	1.6	183.5	$\sqrt{178.81}$	4.9	8.33	11.85
1+00 T.P.		0.42	184.7	180.59	4.1	182.36	196.56
1+25		11.0	185.6	$\sqrt{182.36}$	3.2	4.78	0.56
1+50		10.2	186.4	184.13	2.3	185.90	196.00
1+75		5.4	191.2	$\sqrt{186.90}$	5.3	189.44	1.89
2+00 POSTED		4.0	192.6	187.67	4.9	193.00	177.89
2+25		2.1	194.5	$\sqrt{189.44}$	5.0	7.87	
2+50 T.P.		0.56	196.0	191.21	4.8		
2+75 = H.H. E.T.	198.84	1.0	199.84	$\sqrt{193.00}$	4.8		

POSTED

POSTED



Main Line FRO

28+00	188.60	3.2	185.4
28+25		2.6	186.0
28+50		3.5	185.1
28+75		2.8	185.8
29+00 T.P.		3.64	184.92
29+25		5.0	183.6
29+50 ✓		8.1	180.5
29+66.8	Pier #1	186.44	764 178.80
29+78.8	" " 2		8.75 177.69
29+90.8	" " 3	6' 10" 6' 6.1"	10.05 176.39
30+02.8	" " 4		9.94 176.50
30+14.8	" " 5		7.46 178.98
30+25		6.1	182.5
30+34	M.H. Deep M.H.		180.00
30+50	200.08	4.0	196.1
30+74.8 = M.H. CENTER 26 th		3.8	196.3
31+00		3.7	196.4
31+25		3.7	196.4
31+50		3.5	196.6
31+75		3.5	196.6
32+00		3.4	196.7

B.M. 264 & B.
27 Nov 1969
A + 27 Dec 212.53

✓ 174.76	10.6	29+50 168	188.60 = H.I. 0.91 = T.P.
✓ 175.32	10.7	29+75 0225 18	188.19 = T.P. 11.89
✓ 175.88	9.2	3700	200.00
✓ 176.45	9.3	191.00	196.93
177.01	7.9	10.24 174.76 .02.25	43.1 201.2444
177.57	6.0	191.42 9.82	168 180.00 196.98
178.14	2.4	191.85 9.39	135.0 225.00 7.38
178.52	C 0.28	174.20 12.94	378.00 204.31
178.79	F 1.10	178.14	180.39
179.06	F 2.67	174.76 12.38	178.52 27 179.82
179.33	F 2.83	175.32	57 114
179.60	F 0.62	178.22	342
180.00	2.7	175.88 11.26	179.82 180.16
190.00	15.7	176.45 10.69	T.P. 184.92 1.52
✓ 191.00	3.3	177.01 10.13	H.T. 186.44
191.21	5.2	177.57 9.57	7.879 179.69 3.52 1.1
✓ 191.42	5.0	178.14 9.00	184.92 188.44 180.02 179.01 8.42 1.56
191.64	5.0		52.4 9
191.85	4.8		201.6
192.07	4.6		

32+25	200.05	3.3	196.8	✓192.28	4.5	205.61 - 8.76 196.85 - BM.	200.08 - A.I.	42
32+50		3.1	197.0	✓192.50	4.5	201.96 - 6.72	2.61 197.47 - T.P.	
32+75		2.7	197.4	✓192.71	4.7		8.14 205.61	
33+00 T.P.		2.61	197.47	✓192.92	4.6	192.28 - 8.96	20124 H	
33+25	205.61	7.2	198.1	✓193.14	5.3	192.71 - 8.58	204.31	
33+50		6.9	198.2	✓193.35	5.4	192.92 - 8.32	11.20 208.68 H	
33+75		6.4	199.2	✓193.57	5.6	193.85 - 10.96	17.25 192.819 H	
34+00		5.9	199.7	✓193.78	5.9	193.78 - 10.53	14.43	
34+25		5.4	200.2	✓193.99	6.2	193.99 - 10.32	208.68 H	
34+50.05 = M.H. Center Alley		4.7	200.7	✓194.25	6.6	195.60 - 13.28		
34+75		4.3	201.3	✓194.85	6.5	197.10 - 11.58		
35+00		4.0	201.6	✓195.60	6.0	198.60 - 10.08		
35+25		3.4	202.2	✓196.35	5.9	200.00 - 8.68		
35+50		2.9	202.7	✓197.10	5.6			
35+75		2.2	203.4	✓197.85	5.6			
36+00		1.9	203.7	✓198.60	5.1			
36+25		2.4	203.2	✓199.35	3.9			
36+45.05 = M.H. Center Awt.		1.4	204.2	✓200.0	4.2			

Alley between A and B - 26th and 27th

East from M.H.

0+00	M.H. 26th (8)	20561		194.25		205.61 - 14.365
0+25			4.5	206.1	194.25	3.65
0+50			5.9	199.7	194.56	201.96 = T.P.
1+00	POSTED		5.5	200.1	194.87	7.25
1+25			4.8	200.8	195.19	209.24
1+50			4.3	201.3	195.19	204.81
1+75	T.P.		4.2	201.4	195.81	2.92
2+00		209.24	3.65	201.96	195.19	195.81
2+25			6.9	202.3	195.50	11.26
2+50			6.4	202.8	195.81	207.57 H.
2+75			6.4	202.8	196.12	
3+00	M.H.		6.1	203.1	196.43	
3+25			5.9	203.3	196.43	196.42
3+50			5.5	203.7	196.75	17.14
4+00			5.1	204.1	197.06	
			4.3	204.9	197.37	197.06
			3.7	205.5	197.69	10.89
					198.00	
					198.25	
					198.50	
					198.75	
					199.00	

POSTED

stop at 100 ft

194.25
18.06

194.56
9.75

195.19
9.12

195.81
8.50

205.61 - 14.365
3.65
201.96 = T.P.
7.25
209.24

204.81
2.92
201.397

195.81
11.26
207.57 H.

196.42
17.14

197.06
10.89

197.69
9.88

198.00
9.57

198.25
9.37

198.75
8.87

4+25	209.24	2.6	2066	199.75	7.4	199.25 8.32	207.59
4+50		2.3	2069	199.50	7.4		
4+75		2.3	2069	199.75	7.2	199.75 7.82	
5+00		2.3	2069	200.00	6.9		
5+25		2.0	2072	200.75	7.0	7.52	
5+50		2.2	2070	200.50	6.5		
5+75 T.P.		2.24	20700	200.75	6.3	6.32	
6+00 DE F.T.		2.7	2065	201.0	5.5	6.59	

West from M.H.

0+00	205.61			194.25			205.61 2.02 203.59 11.33 214.92
0+25		4.6	2010	✓ 195.63	5.4	195.63 8.68	204.31 0.65 203.66 T.P. 346 207.12
0+50		6.1	199.5	197.01	2.5	198.39 5.92	
0+75		5.2	2004	198.39	2.0	201.15 3.16	
1+00		3.8	2018	199.77	2.0	202.53 4.59	
1+25 T.P.		2.02	203.59	✓ 201.15	2.4	204.95 2.37	
1+50	214.92	8.7	206.2	✓ 202.53	3.7		
1+90 = DE		3.6	211.3	✓ 204.75	6.6		

POSTED

A St. From 26th St East N.F.J. near 27th St

45

0400 M.H. 26 th St		204.2	200.0	4.2	
0425	212.42	7.9	204.5	✓ 200.25	4.2
0450		7.6	204.8	✓ 200.50	4.3
0475	b	7.3	205.1	✓ 200.75	4.4
1400		6.9	205.5	201.00	4.5
1425		6.6	205.8	✓ 201.25	4.5
1450		6.4	206.0	201.50	4.5
1475		6.0	206.4	✓ 201.75	4.7
2100		5.7	206.7	202.00	4.7
2125		5.4	207.0	✓ 202.25	4.7
2150		5.2	207.2	202.50	4.7
2175		4.9	207.5	✓ 202.75	4.8
3100 M.H.		4.6	207.8	✓ 203.0	4.8
3125		4.4	208.0	✓ 203.25	4.9
3150		4.0	208.4	203.50	4.9
3175		3.6	208.5	✓ 203.75	5.1
4200		3.4	209.0	204.00	5.00

37. NE 26th St
 37. 205.22

2.20
 212.42

205.22
 3.46
 208.68
 2.11
 206.43
 6.82
 213.25

POSTED

4+75	212.42	3.1	209.3	√204.75	5.1	204.75 9.00	213.25 H.
4+50		2.9	209.5	204.50	5.0		
4+75		2.5	209.9	√204.75	5.2	204.75 8.00	
5+00		2.2	210.2	205.00	5.2		
5+75		1.8	210.6	√205.25	5.3	205.25 8.00	
5+50		1.5	210.9	205.50	5.4		
5+75		1.2	211.2	√205.75	5.5	205.75 7.50	
6+00 F.T.		1.0	211.4	√206.0	5.4	206.0 7.25	

5. A. St. from N.H. & 26 West to F.T.

			ground	grade	
0+00		212.51	204.3	200	4.3
0+25	5		204.5	200.4	4.1
0+50			204.8	200.8	4.0
0+75	POSTED		205.5	201.2	4.3
1+00			205.8	201.6	4.2
1+25			206.4	202.0	4.4
1+50			207.0	202.4	4.6
1+75			207.8	202.8	5.0
2+00			208.4	203.2	5.2
2+25			208.9	203.6	5.3
2+50 F.T.			209.5	204.0	5.5

N.E. cor.
 26th & 2^d St.
 205.22817
 7.27
 212.5141
 205.221
 6.29
 211.51

200.40
 11.11
 201.20
 10.31
 202.00
 9.91
 202.80
 8.71
 203.60
 7.91
 204.00
 7.51

POSTED

V.A. St from 25th St. East to F.T.

150
30
180

11.11.20 PM
201.95 = 18

0+00 M.H.	208.01	6.6	201.4	194.70	6.7
0+25		6.9	201.1	195.39	5.7
0+50		6.3	201.7	196.08	5.6
0+75		5.9	202.1	196.78	5.3
1+00		5.4	202.6	197.47	5.1
1+25		4.9	203.1	198.16	4.9
1+50		4.0	204.0	198.86	5.1
1+75		3.4	204.6	199.55	5.0
2+00		2.8	205.2	200.24	5.0
2+25		1.9	206.1	200.94	5.2
2+50		1.4	206.6	201.63	5.0
2+75		0.6	207.4	202.32	5.1
3+00		0.1	207.9	203.03	4.9
3+25 F.T.	212.57	3.8	208.7	203.7	5.0

212.57
3.8
208.7

203.70

4.45

202.32

5.83

200.94

7.21

199.55

8.60

198.16

9.99

196.78

11.37

195.39

12.76

194.70

13.45

212.57

6.38

206.13

1.85

208.01

6.06

201.95

6.20

208.15

POSTED

POSTED

Alley bet. A. & B. from 25th St. east.
M.H. on 25th is 194.0 south from E of "A" St. and runs to E of alley at Sta 4+15 (F.T.)

10400 M.H.	208.89	10.2	198.7
0+25		10.6	198.3
0+50		9.7	109.2
0+75		9.3	199.6
1+00		8.2	200.7
1+25		7.3	201.6
1+50		6.4	202.5
1+75		4.7	204.2
2+00		4.2	204.7
2+25		3.2	205.7
2+50		2.2	206.7
2+75		1.7	207.3
3+00	216.66	8.5	208.2
3+25		7.7	209.0
3+50		6.7	210.0
3+75		5.3	211.4

POSTED

192.47	6.2	193.32
85		12.15
193.32	5.0	195.02
		10.40
194.17	5.0	196.72
		8.70
195.02	4.6	198.42
		7.00
195.87	4.8	200.12
		5.30
196.72	4.9	201.82
		3.60
197.57	4.9	203.52
		8.80
198.42	5.8	206.22
		6.10
199.27	5.4	203.52
		8.80
200.12	5.6	206.22
		6.10
200.97	5.7	203.52
		8.80
201.82	5.5	207.67
		8.80
202.67	5.5	207.67
		8.80
203.52	5.5	207.67
		8.80
204.37	5.6	207.67
		8.80
205.22	6.2	207.67

208.89
6.94
208.89
0.99
207.99
8.67
216.66
201.95
3.47
205.42
0.43
204.99
7.38
212.37
203.52
207.67

POSTED

87

1400

21666 39 212.7

1415 F.T.

41 212.5

2134

85
300

50

212.32

206.07 5.6
209.07?

206.41

5.91

206.41 6.1

D
 Allow between D & E and 24th to 25th

0100 M.H. & 24 th	18666	140	177.7	166.5	6.2	
0125		13.25	173.41	167.63	5.8	
0150		11.80	174.9	168.75	6.2	
0145		10.1	176.6	169.87	6.7	
1100	POSTED	8.6	178.1	171.00	7.1	
1145		7.6	179.1	172.12	7.0	
1150		6.6	180.1	173.25	6.9	
1145		5.9	180.8	174.37	6.4	
2100		5.0	181.7	175.50	6.2	
2125		3.9	182.8	176.62	6.2	
2150		2.8	183.9	177.75	6.2	
2145		1.21	184.6	178.87	5.7	
3100 M.H.		1.8	184.9	180.0	4.9	
3125		1.0	185.4	180.45	5.3	
3150	T.P.	0.59	186.07	180.90	5.2	
3145		193.70	72	186.5	181.35	5.2

1269

Oct. 6/09 (Childs Barber Taylor)

377.11
 2442.51

173.96	143.96
7.65	127.0
181.61	186.66
168.75	0.59
12.86	186.07
121.00	7.63
10.61	193.70
173.25	0.80
8.36	180.81 TR
175.50	10.43
6.11	191.24 TR
177.25	180.00
3.86	11.24
180.00	150.90
1.61	10.34

POSTED

4700	193.70	6.8	186.9	181.80	5.1	173.96
4725		6.4	187.3	182.25	5.1	191.24 Hz 181.50
4750		6.1	187.6	182.70	4.9	9.44 182.70
4775		5.5	188.2	183.15	5.1	8.54 183.60
5700		4.9	188.8	183.60	5.2	7.64 184.50
5725		4.3	189.4	184.05	5.4	6.74 184.97
5750		3.5	190.2	184.50	5.7	6.27
5775		3.3	190.4	184.95	5.4	

Alley between "C" and "D" from 24th East to 25th
H.I.

B.M.
511 on W-C-3
190.96

0100 M.H. & 39 th St.	188.82	6.1	177.7	171.5	6.2
0125		5.7	178.1	173.19	4.9
0150		3.3	180.5	174.88	5.6
0175 T.P.		1.02	182.50	176.57	6.2
1400	193.32	8.6	184.7	178.76	6.4
1425		7.9	185.4	179.95	5.4
1450		6.6	186.7	181.64	5.1
1470 V. Carr		5.3	188.0	183.00	
1475		4.6	188.7	183.12	4.9
1500		3.8	189.5	183.70	5.0
1525		3.1	190.2	184.27	5.2
1550		2.6	190.7	184.85	5.4
1575		2.0	191.3	185.42	5.3
1600 M.H.		1.6	191.7	186.00	5.3
1625		1.2	192.1	186.28	5.4
1650		0.76	192.56	186.55	5.6
1675 T.P.		1.4	192.6	186.81	5.7
1700	199.98	7.4	192.6	187.08	5.5

190.96 B.M. SW	173.96
8.35	179.86
199.31	183.82
10.57	1.02
188.74	182.80
1.13	10.52
190.29	193.32
174.88	0.76
178.26	192.56
12.03	7.42
181.64	199.96
8.65	
183.00	
7.29	
183.20	
6.59	
184.85	
5.44	
186.00	
4.29	
186.55	
3.74	
187.08	
3.21	

Oct. 6/59
 Leilids
 Barber
 Taylor
 978
 150.57
 376
 184.27
 174.88
 9.39
 198.56
 190.96
 8.35
 199.98 H.I.

POSTED

POSTED

4725

199.98 6.8 193.2

187.34 5.9 ✓

198.56 HI

54

189.00

199.98

9.56

9.00

190.96

190.94

8.67

199.63

186.81

12.82

187.34

12.29

187.87

17.76

189.94

10.69

4750

6.0 194.0

187.61 6.4

8.67 HI

199.98

4775

5.4 194.6

187.87 6.7

199.63

Oct 7/09

190.94

9.00

Barber

Taylor

9

5100

5.3 194.4

188.14 6.6 ✓

187.34

190.96

8.49

199.43 HI

188.44

11.31

5125

5.1 194.9

188.41 6.5

188.67

10.78

5150

5.3 194.7

188.67 5.9 ✓

189.94

10.69

5175

188.94

5180

F.T.

5.8 194.2

189.0 5.2

1873

I

29th St. Line from center 28 30' to 4' 5"

55

B.M. Pole = 92.81
3.56
96.37
B.M. 92.81
3.06
41.95.87

	H.I.	Rod	Grad	Grade	Cut	
0+00	96.37			82.00		
0+25		9.2	87.2	82.44	4.8	
0+50		8.4	88.0	82.98	5.0	82.98 12.89
0+75		8.8	88.6	83.42	5.2	
1+00		7.7	88.7	83.86	4.8	83.86 12.01
1+25		7.5	88.9	84.29	4.6	
1+50		6.4	90.0	84.73	5.3	84.73 11.14
1+75		5.5	90.9	85.17	5.7	
2+00		5.3	91.1	85.61	5.5	85.61 10.26
2+25		5.3	91.1	86.05	5.0	
2+50		5.2	91.2	86.49	4.7	86.49 9.38
2+75		4.9	91.5	86.93	4.6	
3+00		4.5	91.9	87.37	4.5	87.37 8.50
3+25		3.6	92.8	87.81	5.0	
3+50		3.2	93.1	88.25	4.8	88.25 7.62
3+75		3.1	93.3	88.69	4.6	

POSTED

POSTED

3+98.3	M.H. C. HATH ST (122)	96.87	3.7	92.7	✓ 89.0	3.7	89.00 13.78
4+25	T.P.		2.72	93.7	89.45	4.3	89.45 13.33
4+50		103.04	8.8	94.2	✓ 89.88	4.3	89.88 10.90
4+75			8.3	94.7	90.31	4.4	
5700			7.9	95.1	90.73	4.4	90.73 12.03
5725			7.6	95.4	91.16	4.2	
5+50			6.5	96.5	91.58	4.9	91.58 11.20
5+75			5.1	97.9	92.00	5.9	
6+00			5.9	97.1	92.43	4.7	92.43 10.35
6+25			6.2	96.8	92.86	3.9	
6+50			5.5	97.5	93.28	4.2	93.28 9.50
6+75			5.4	97.6	93.71	3.9	
7+00			4.8	98.2	94.13	4.1	94.13 8.65
7+25			3.1	99.9	94.56	5.3	
7+50			5.3	97.7	94.98	2.7	94.98 7.80
7+65.9	M.H. C. 29 th ST (121)		3.2	99.8	95.25	4.5	95.25 7.53

96.87
 2.72
 93.65
 9.39
 103.04
 95.87 H/L
 2.21
 93.66
 9.12 H/L
 102.78 H/L

POSTED

7775		103.04	4.9	98.1
8400			1.8	101.2
8425	T.P.		0.72	102.32
8450		¹¹⁵ 114.98	11.3	103.4
8475			9.4	105.6
9400			7.6	107.2
9425			4.9	110.7
9450			2.2	112.8
9466	M.H. since Hist (120)		1.2	113.8
9475	T.P.		0.38	114.60
10400		127.18	11.3	115.8
10425			9.0	118.1
10450			6.6	120.5
10475			4.9	122.7
11400			3.1	124.0
11425			2.9	124.2
11450			2.1	124.5

95.84	2.3	
97.46	3.7	97.46 5.32
99.09	3.2	
100.72	3.0	100.72 12.28
102.34	3.3	
103.96	3.4	103.96 9.04
105.59	4.5	
107.22	5.6	107.22 5.78
108.75	5.6	108.75 4.75
108.44	6.2	
108.97	6.8	108.97 12.78
109.50	8.6	109.50 12.55
110.02	10.5	110.02 11.72
110.56	11.6	11.19
111.09	12.9	13.42
111.62	14.6	12.89
112.15	14.8	12.36

103.04
0.72
102.32 T.P.
1.266
114.98
0.38
114.60
12.53
127.13

102.784
0.05
102.34
10.66
113.004
0.19
112.81
8.94
121.754
0.64
121.9175
3.40
124.5141

9.66

POSTED

114.75	127.13	1.9	125.2
124.00	T.P.	3.44	123.69
124.35.7	M.H. (63) alley bet G.H.	5.2	121.9
124.50	1331.0	10.4	122.7
124.75		11.5	121.6
134.00		11.2	121.9
134.25		9.7	123.4
134.50		7.4	123.7
134.75		8.5	124.6
144.00		11.7	121.4
144.25		15.3	117.8
144.50		15.3	117.8
144.75		14.7	119.4
154.00		12.9	120.2
154.25		11.2	121.9
154.50		9.8	123.3
154.75		6.0	127.1

112.68	12.5	112.68	13.09
113.21	10.5	113.21	14.56
114.00	7.9	114.00	13.77
114.22	8.5	114.22	13.55
114.62	7.0		
115.03	6.9	115.03	12.74
115.43	8.0	115.43	10.78
115.84	9.9	115.84	11.624
116.24	8.3	116.24	12.38
116.65	4.8	116.65	9.97
117.05	0.7	117.05	9.17
117.45	0.4	117.45	118.27
117.86	0.5	117.86	8.35
118.27	1.9	118.27	7.55
118.67	3.2		
119.07	4.2		
119.48	7.6		

128.69
9.41
133.10
124.51
5.36
119.15
8.62
129.99
123.69
2.73
126.62
132.17
17.95
12.69

20+00	T.P.	13640	8.43	127.97	✓ 123.945	4.0	$\frac{123.94}{13.00}$
20+21.55	M.H. (53)	129.0 138.99	10.8	128.7	124.2	4.5	$\frac{124.20}{12.70}$
20+50			8.8	130.7	✓ 125.04	5.2	$\frac{125.04}{11.90}$
20+75			9.2	129.8	125.79	4.0	
21+00			10.0	129.0	✓ 126.54	2.5	$\frac{126.54}{110.40}$
21+25			10.0	129.0	127.29	1.7	$\frac{128.04}{8.90}$
21+50			8.3	130.7	✓ 128.04	2.7	
21+75			6.3	132.7	128.98	3.9	$\frac{129.53}{7.41}$
22+00			5.1	133.9	✓ 129.53	4.4	$\frac{130.50}{6.44}$
22+25					130.27		
22+34	M.H. (52)		5.1	133.9	✓ 130.5	3.4	$\frac{131.06}{8.52}$
22+50			4.0	135.0	✓ 131.06	3.9	$\frac{132.81}{6.77}$
22+75			2.7	136.3	131.93	4.4	
23+00	T.P.		1.35	137.64	✓ 132.81	4.8	$\frac{134.66}{4.92}$
23+25		146.13	8.1	138.0	133.78	4.2	
23+50			8.2	137.9	✓ 134.66	3.2	
23+75			7.2	138.9	135.53	3.4	

898
127.97
136.72

136.40
8.93
127.97
11.02
138.99
1.35
137.64
8.49
146.13
T.P. 127.97
8.97
136.74

137.64
1.74
139.58

24+00	146.13	5.2	140.9	✓136.41	4.5	136.41	146.13 2.37 143.79 = T.P. 11.28
24+23.85 M.H. (50)		6.0	140.1	137.28	2.8	3.17	155.07 0.40
24+50		5.3	140.6	✓138.16	2.6	137.28 2.30	154.67 6.31 160.98
24+75		4.6	141.5	139.01	2.5	138.16 1.42	139.58
25+00		3.4	142.9	✓139.87	2.8	139.87	143.29 5.45
25+25 T.P.		2.34	143.79	140.74	3.0	9.37 141.61 7.63	2614 149.24 H. 222 190 143.80 137.28 6.52
25+50	155.07	10.4	144.7	✓141.61	3.0	143.34 5.90	
25+75		8.9	146.2	142.47	3.7	143.40 3.44	652 570 820 760 570 300
26+00		8.4	146.4	✓143.34	3.3	144.17 5.07	190 113.43 862
26+13.6 M.H. (49)		9.1	146.0	✓143.80	2.2		137.28 87
26+25		5.9	149.2	143.92	5.3	14 343 14 1372 243 41	138.17 56
26+50		4.2	150.9	✓144.17	6.7		139.01
26+75		2.8	152.3	144.43	7.9		154.67 287 157.54 H. 139.82 140.74 141.61
27+00		3.1	152.0	144.68	7.3	144.68 12.86	142.47 143.34 48 143.52
27+25 T.P.		0.40	154.67	✓144.93	9.8	144.93 12.61	
27+50	160.98	5.4	155.6	✓145.18	10.4	145.18 12.33	
27+75		7.5	153.5	✓145.44	8.1	145.44 12.90	

From Sta 28+11.2 run to a pt. 35° E. of \perp
 line to intersection E of diley in BIR 63

29th St. at N line "C" thence in straight
 E in Morse addn.

Station	H.L.							
28+00	160.98	8.7	152.3	145.69	6.6	145.80	160.98	
28+11.2 M.H. 27		9.28	151.70	145.80	5.9	11.79	0.78	
28+25	161.55	8.2	153.4	146.30	7.1	146.30	160.20 T.P.	
28+50		7.0	154.6	147.20	7.4	148.10	10.26	
28+75		6.4	155.2	148.10	7.1	9.49	17.046	
29+00	POSTED	5.1	156.5	149.00	7.5	149.90	1.79	
29+25		3.8	157.8	149.90	7.9	7.29	154.67 T.P.	
29+50		2.9	158.7	150.80	7.9	149.90	6.88	
29+75 T.P.		1.99	159.56	151.70	7.8	13.39	161.55	
30+00	167.75	7.5	160.3	152.60	7.7	151.70	1.99	
30+25		7.0	160.8	153.50	7.3	11.59	159.56	
30+38.85 M.H. ✓		7.35	160.40	154.00	6.4	153.50	3.73	
30+50		6.3	161.5	154.07	7.4	9.79	163.29	
30+75		5.8	162.0	154.24	7.8	154.00	159.33	
31+00		5.5	162.3	154.41	7.9	7.27	2.64	
31+25		6.4	161.4	154.59	6.8	154.24	47.161.94	
31+50 T.P.		8.42	159.33	154.74	4.6	9.05		
						154.57		
						8.72		POSTED

f2

31+95	167.25	9.3	158.4	154.91	3.5	$\frac{154.91}{8.35}$		159.33
32+00		9.2	158.5	155.08	3.4			11.32
32+25		9.6	158.1	155.25	2.9			170.65
32+50		9.4	158.3	155.42	2.9			1.00
32+62.6 N.H.		9.2	158.5	155.5	3.0			169.45
32+75	172.65	10.3	160.35	156.81	3.5	$\frac{166.19}{12.68}$		7.92
33+00		4.1	166.5	159.54	7.0	$\frac{166.32}{12.55}$		178.87
33+25 T.P.		1.20	169.45	162.37	7.1	$\frac{166.45}{12.42}$	156.81	163.29
33+50	174.18	2.8	171.4	165.00	6.4	$\frac{166.59}{12.28}$	12.64	159.33
33+59.1 N.H. (24) T.P.		1.82	172.36	166.0	6.4	$\frac{166.59}{12.28}$	162.27	10.12
33+70	182.81			166.06		$\frac{166.72}{12.15}$	166.00	169.45
33+95		10.6	172.2	166.19	6.0		9.46	6.01
34+00		7.4	175.4	166.34	9.1			175.46
34+45		6.5	176.3	166.45	9.9			155.5
34+70		7.1	175.7	166.59	9.1			2.64
34+95		6.3	176.5	166.72	9.8			

21

39+00	204.51		
39+25		6.6	192.9
39+50		7.1	199.4
39+75		9.3	195.2
40+00	194.18	6.8	187.4
40+25		17.2	177.0
40+50		8.4	185.8
40+75		4.3	192.9
40+841 M.H.		0.4	194.6
41+00		0.5	193.7
41+25		4.6	189.6
41+50		9.4	184.8
41+75		12.6	181.6

41+96 = Trestle E side

Trestle pipe = 14.3 higher than

Sta 41+75

41+7.6

389.41
190
20.941

65

40 500

192.03	
192.16	5.7
192.29	5.1
192.42	2.8
192.55	F 3.1
192.69	15.7
192.82	7.0
192.95	0.0
193.00	1.6

204.51
10.63
193.88
2.31
194.1841

194.00

POSTED

§

ALLEY Bet E & F from M.H. () West 66

0+00 M.H.	139.87	11.2	131.7	126.20	4.5		127.97
							11.90
0+25		9.1	130.8	128.95	1.8		167.60
							16.10
0+50	5	4.7	135.2	133.70	1.5	133.70	139.87
						3.22	0.33
0+75	151.38	9.7	141.7	138.45	3.3		15.50
							158.65 H.I.
1+00		4.3	149.1	143.20	3.9	143.20	11.87
						4.49	151.38
1+25	163.24	10.1	153.1	147.95	5.1		11.58
							147.87
1+40 M.H.		7.6	155.6	150.8	4.8	150.80	0.62
						7.85	747.69 H.I.
1+50		5.7	157.5	151.80	5.7	151.80	15.55
							135.14
1+75	POSTED	2.3	160.9	154.3	6.6		1.78
							136.92 H.I.
2+00	172.40	8.7	163.9	156.8	6.9	156.80	151.16 - T.P.
						70.80	11.13
2+25		6.5	165.9	159.3	6.6	159.30	172.40
						8.30	1.66
2+50		4.1	166.3	161.8	6.5		170.74
2+75 T.P.		1.66	170.74	164.3	6.4	164.30	9.83
						13.55	180.57
3+00	180.57	7.4	173.5	166.8	6.4		5.25
							5
3+25		4.9	175.7	169.3	6.4	169.30	1.3
						8.55	1.0
3+50		2.3	178.3	171.8	6.5		170.96 T.P.
							7.11
3+65 #F.T.		0.3		173.3		173.30	747.85 H.I.
						4.55	13.57

4 to 0 M.H.

X 180.57 0.75 179.82

174.20	
150.80	260
23.70	19
23.40	2.25

150.8
756.7
225
153.95
156.20
158.45
160.70
162.95
165.20
167.45
169.70
171.95
174.20

400
178
260

67

180.57
0.75
179.82
6.78
186.30
1.71
184.59

Alley between F and G
Sewer and

St. from 29th St. East
Drainage

68

0100 M.H.

0125	T.P.	13264	5.98	123.66
+37				
+49			13.5	119.1
+61				
+75				

POSTED

10.8 121.8

1720 M.H.

1400	T.P.	14248	11.23	131.20
------	------	-------	-------	--------

1425			6.7	135.9
------	--	--	-----	-------

1400	T.P.	15373	11.81	141.92
------	------	-------	-------	--------

1425			4.5	149.2
------	--	--	-----	-------

1450	T.P.	16535	12.16	153.19
------	------	-------	-------	--------

1475			8.0	157.4
------	--	--	-----	-------

2780			4.4	161.0
------	--	--	-----	-------

3400 M.H.

3425	line lowered		3.0	162.4
------	--------------	--	-----	-------

3450	See Book 908-65		1.7	163.7
------	-----------------	--	-----	-------

3475			0.7	164.7
------	--	--	-----	-------

4100 F.T.			0.4	165.0
-----------	--	--	-----	-------

12015

✓12027	3.4	12027
--------	-----	-------

✓12033		10.08
--------	--	-------

✓12039	F. 1.3	
--------	--------	--

120.45		
--------	--	--

✓120.53		120.33
---------	--	--------

		10.02
--	--	-------

	1.2	
--	-----	--

12075

✓12675	4.5	12675
--------	-----	-------

		11.88
--	--	-------

13175	4.0	120.52
-------	-----	--------

		9.82
--	--	------

✓13675	5.2	13675
--------	-----	-------

		1.88
--	--	------

✓14175	7.5	14175
--------	-----	-------

		16.39
--	--	-------

14675	6.5	
-------	-----	--

✓15175	5.7	15175
--------	-----	-------

		6.39
--	--	------

✓15675	4.3	15675
--------	-----	-------

		1.39
--	--	------

✓159.25	5.2	159.25
---------	-----	--------

		7.47
--	--	------

✓159.75	6.0	159.75
---------	-----	--------

		8.19
--	--	------

158.25	6.5	157.75
--------	-----	--------

		8.69
--	--	------

158.75	6.3	158.75
--------	-----	--------

		7.69
--	--	------

12027

10.08

12065

12015

120.33

10.02

1.2

12075

9.90

12675

11.88

120.52

9.82

13675

1.88

14175

16.39

14675

15175

6.39

15675

1.39

159.25

7.47

159.75

8.19

158.25

8.69

158.75

7.69

T.P. 15469

1066

M. 165.35

12.16

153.19

0.54

153.73

11.51

141.92

0.51

142.43

11.23

131.20

1.44

132.44

120.75

6.69

130.35

0.42

129.43

8.70

1138.63

15319

4.91

15814

15319

11.53

16649

116472

123.66

2.38

126.04

Sheet B-8

$$\begin{array}{r} 545 \\ 417 \\ \hline 138 \end{array}$$

$$5.83 \quad 100.00 \quad 94.17$$

$$4.55 \quad 100.00 \quad 95.45$$

5

10

~~56~~

49

10.5

34

7.0

Alley bet J and K St.
West of 27th St.

0+00 = M.H. about 5' S. of 27th St.

0+50

1+00

1+50

2+00

Grade

148.50

149.36

150.01

150.77

151.00

2.0 ✓

2.42 ✓

2.84 ✓

3.26 ✓

3.4

180" Coal

2' also cement

70

71

72

87

axum 8" to joint 75

ails

102	
169	
2300	1041
2082	220
2180	
2082	
<u>9800</u>	

4127.09

5.52

2209
191
<u>2209</u>
19881
<u>2209</u>
421919

4125

14380	
13725	
<u>655</u>	10
137010	4343
26000	86
<u>26000</u>	
3	

Lead Oxide 8" to joint 75

Oxide

6" 80 nails

3894.1
3790
104.1

4127.09

5.52

16900
2.21
171.21
5.52
176.73
182.25
187.77
4.23
192.00

102
169
2300 Vol. 1
2092
2180
2082
9800

2209

196

2209

19881

2209

421919

4125

14380

13728

652

520

2600

36000

3

100

4343

86

26000

3

6th Car 16776 July 23rd

good	bad	Unemployed	Total
677	30	91	798

74 good vs 1 bad 75
2 bag stoppers

J. Symons. 3359.1
J. Anderson 380
A. Kuehl 3739.1
J. McDaniels
Wm. Corbett
S. Rourke. 2 hrs.

176.18
2.22
173.96 - T.P.
8.47
182.43
2.62
179.81

135 2362.70 17.35
x 154.00 1982.65 .00
137.00 350.05 867.77
19.00

350.00 | 19.00000000 .05
19.00 | 25
1.25

206.47 137.8675
192.84 1.25 12.7
14.00 139.1175 .05
24.00 140.3675 .635
12.45 141.6175
130.50 142.8675
144.1175
145.3675

9.00 325 146.6175 113.39
16.50 52.77 147.8675 138.79
22.75 69.75 149.1175 163.4
57.50 150.3675 60
194.70 151.6175
69.75 152.8675
195.3975 154.1175
196.0850 155.8675
196.7775 155.8675
197.4700.1 156.0025
198.1625
198.8600
199.5525
200.2450.2
200.9375
201.6300
202.3225
203.0150.3
203.7075

15460
157
17.6 1380
15200 4763
48000 116
378000
12

6th Car 16776 July 23

good had Unemployed Total

677 30 91 798

74 good up had 75

2 bags stoppers

J. Symons. 3359.10

J. Anderson 386

H. Kuehl 3739.1

J. McDaniel

Wm. Corbett

S. Roche. 2 hrs.

176.14
 2.22
 173.96 - T.P.
 5.47
 182.43
 2.62
 179.81

7
 5
 5
 5
 5
 0
 5

463

135 2362.70 17.35
 x 156.00 1982.65 .00
 137.00 380.05 8675 777
 19.00

350.00 | 19.00000000 .05
 19.00

206.47 137.8675
 192.87 415 1.25
 14.00 139.1175
 12.45 84
 12.50 140.3675
 12.45 141.6175
 3.05 142.8675
 144.1175
 145.3675

9.00 325
 16.00 47.77
 25.00 69.75
 22.75
 194.90

194.90
 .6975
 195.3975
 196.0850
 196.7775
 197.4700.1
 198.1625
 198.8600
 199.5525
 200.2450.2
 200.9375
 201.6300
 202.3225
 203.0150.3
 203.7075

15460.
 127
 17.6
 15200
 248000
 2213

25
 .05
 1.25
 12.7
 .05
 .635
 463
 139
 138
 163
 60

175.50
158
195

2743.9
2362.7
381.2

381.2) 195.0000000000 (05115
19060 25

4400 25575
3812 10230
5880 12787.5-25
3812
20680
19060
1620

141421
24263
141421
838

1.2787
156.6291
24 157.9098
+25 159.1865
+50 160.4652 ✓
+75 161.7439 ✓
25 163.0226 ✓
+25 164.3013 ✓
+50 165.5800 ✓
+75 166.8587 ✓
26 168.1374 ✓
26+25 169.4161 ✓
+50 170.6948 ✓
+75 171.9735
27+00 173.2522
22454
175.4976

105115
123
15345
10230
5115
629145

105.50

75.0
62.7
123

75 5.0000
25
500
450
500
450

1066
25
5330
2132

78

01066
25
5330
2132

26650 128.0000
128.0000 4150
128.26650
128.53300
128.79950 200

26650
128.0
130.6650
133.330

157.0
128.8
28.20000 (74)
200
820
820
200

1141
25
705
282
3525

128.800
3.525
132.325 ✓
135.850 ✓
139.375 ✓
142.900 ✓
146.425 ✓
149.950
153.475 ✓
157.000

05115
43.9
46035
15345
20460
2245485

