Bean St. Amherst to S Park
29th " Dartmouth " " "
Dale " " " " "
Grove " Harvard to S. Line of S. Park

400

LEVEL

F.B. 128

128

Table showing the d[illegible]f latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes	Lks.	Minutes	Lks.	Minutes	Lks.
1	2⅓	21	49	41	95⅔
2	4⅔	22	51⅓	42	98
3	7	23	53⅔	43	100⅓
4	9⅓	24	56	44	102⅔
5	11⅔	25	58⅓	45	105
6	14	26	60⅔	46	107⅓
7	16⅓	27	63	47	109⅔
8	18⅔	28	65⅓	48	112
9	21	29	67⅔	49	114⅓
10	23⅓	30	70	50	116⅔
11	25⅔	31	72⅓	51	119
12	28	32	74⅔	52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

Return to City Engineers Office
City Hall, San Diego, Cal.

TABLE FOR RUNNING ON SLOPES.

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

MICROFILMED
DEC 7 1964

Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links
°		°		°		°	
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

128

Book No 128

name

Date

Cross Section of 3rd Nutm to Olive 30.32

Levels on 17 str from H to K 34.-35

Bean Park to Amherst 36-50

" 29th Str Park to Darlmouth 51.57

" Dale Str Dartmouth to Park 58-66

Grove " betw. Harvard & Park 67.-70

X-Sections - Alley Blk 98, S.D. L & T. Co Add 71-73

5/14/03 Levels for Road from the gate on the La Jolla Road to City Limits on Linda Vista Rd.

Primary
Milburn
Lambert

Sta.	+	o	−	Rod	Elev.
Spot on N. gate Post on La Jolla Road B.M. #26	0.33	119.87			119.54
O=44+61				6.0	113.87
T.P.	0.50	108.94	11.43		108.44
+50				4.0	104.9
1				6.1	102.8
+50				7.4	101.5
+80				9.4	99.5
2				17.0	91.9
+05				10.6	98.3
+50				9.3	99.6
+75				8.8	100.1
3				10.0	98.9
T.P.	0.77	97.95	11.76		97.18
+50				2.0	95.9
Plug +74				3.95	94.0
4				5.3	92.6
+50				8.1	89.8
	1.60		23.19		

Sta.	+	o	−	Rod	Elev.
5				11.3	86.6
T.P.	0.89	87.45	11.39		86.56
+50				4.6	82.8
6				7.7	79.7
+50				11.1	76.3
T.P.	0.99	76.54	11.90		75.55
7 Plug				3.60	72.9
+25				10.1	66.4
T.P.	0.43	65.03	11.94		64.60
+50				5.2	59.8
+62				7.6	57.4
8				9.8	55.2
3x4' Box +50				10.9	54.1
9				7.3	57.7
+50				7.6	57.4
10 Plug	1.28	55.95	10.36		54.67
+25				2.4	53.5
	3.59		45.59		

Sta.	+	⊙	−	Rod	Elev.
+50				3.9	52.0
11				7.4	48.5
T.P.	1.24	45.22	11.97		43.98
+50				2.5	42.7
12				4.3	40.9
+50				5.8	39.4
13				7.6	37.6
+50				9.1	36.1
14				12.0	33.2
T.P.	1.31	34.61	11.92		33.30
+50				3.4	31.2
15				4.8	29.8
+50				4.2	30.4
+75				5.3	29.3
16				8.6	26.0
T.P.	0.67	23.70	11.58		23.03
+44				7.0	16.7
	3.22		35.47		

Sta.	+	⊙	−	Rod	Elev.
+50				7.4	16.3
16+75 – 3'x4' Box					
17				7.6	16.1
+50				4.5	19.2
Plug +54				3.81	19.89
18				4.3	19.4
+50				4.5	19.2
19				5.7	18.0
+25				7.9	15.8
+50				10.4	13.3
T.P.	0.56	12.33	11.93		11.77
20				6.6	5.7
+50				10.3	2.0
21				10.6	1.7
+50				10.5	1.8
22				11.2	1.1
+50				11.3	1.0
T.P.	4.10	5.19	11.24		1.09
	4.66		23.17		

Sta.	+	o	−	Rod	Elev.
23				3.6	1.6
+50				3.5	1.7
24				3.2	2.0
+50				3.0	2.2
25				3.8	1.4
+50				3.5	1.7
26				3.4	1.8
+50				3.4	1.8
27				3.3	1.9
+50				3.0	2.2
28				2.9	2.3
+50				2.9	2.3
29				2.9	2.3
T. P.	10.65	13.05	2.79		2.40
+50				10.6	2.4
30				10.4	2.6
+50				10.0	3.0

Sta.	+	o	−	Rod	Elev.
31				10.1	2.9
+50				9.8	3.2
32				9.7	3.3
+50				8.2	4.8
33				4.9	8.1
+50				1.7	12.3
T. P.	11.55	23.52	1.08		11.97
34				8.3	15.2
+50				6.4	17.1
35				4.9	18.6
+50				3.7	19.8
36				2.2	21.3
+50				0.6	22.9
T. P.	6.73	29.41	0.84		22.68
37				5.2	24.2
Plug +50				4.05	25.36
38				3.5	25.9
		18.28	1.92		

Sta.	+	o	−	Rod	Elev.
+50				3.7	25.7
39				4.2	25.2
+50				5.2	24.2
40				6.1	23.3
+50				6.0	23.4
41				5.4	24.0
+50				4.1	25.3
42				3.0	26.4
+50				2.1	27.3
43 Plug	5.35	33.23	1.53		27.88
+50				5.8	27.4
44				5.5	27.7
+50				5.8	27.4
45				5.8	27.4
+50				6.0	27.2
46				6.1	27.1
+50				5.6	27.6

Sta.	+	o	−	Rod	Elev.
47				4.9	28.3
+50				4.1	29.1
48				3.7	29.5
+50				3.3	29.9
49				3.2	30.0
+50				2.6	30.6
50				1.7	31.5
T. P.	11.20	43.00	1.43		31.80
+50				10.0	33.00
51				8.0	35.0
+50				5.7	37.3
52				3.0	40.00
+50				0.2	42.8
T. P.	11.83	54.16	0.67		42.33
53				9.0	45.2
+50				7.0	47.2
54				4.8	49.4
	23.03		2.10		

5/19/03

Sta.	+	o	−	Rod	Elev.
+50				2.6	51.6
55				0.4	53.8
T. P.	11.68	64.80	1.04		53.12
+50				7.9	56.9
56				5.2	59.6
+50				3.2	61.6
57				1.8	63.0
T. P.	11.06	75.07	0.79		64.01
+50				10.0	65.1
58				8.2	66.9
+50				6.0	69.1
59				3.5	71.6
+50				0.8	74.3
T. P.	7.74	82.09	0.72		74.35
60				4.9	77.2
Plug +50 △				1.91	80.18
+75				2.2	79.9
	30.48		2.55		

Sta.	+	o	−	Rod	Elev.
61				8.9	73.2
T. P.	4.88	75.20	11.77		70.32
+30				8.6	66.6
+50				8.5	66.7
Bridge +58 Ditch				16.5	58.7
+66				9.1	66.1
+80				7.9	67.3
62				2.6	72.6
T. P. (Peg)	11.87	86.24	0.83		74.37 ✓
Plug +18 △				9.62	76.62
+50				8.0	78.2
63				3.6	82.6
T. P.	11.06	94.30	3.00		83.24
+25				10.8	83.5
+50				12.4	81.9
+75				12.6	81.7
64				13.8	80.5
	27.81		15.60		

Sta.	+	⊙	−	Rod	Elev.
+20				12.1	82.2
+50				7.0	87.3
+75				4.1	90.2
65				4.4	89.9
Plug +05 △	11.54	100.88	4.96		89.34
+30				10.1	90.8
+50				7.1	93.8
+75				2.4	98.5
66				0.8	100.1
T.P.	11.76	112.13	0.51		100.37
+50				8.1	104.0
67				7.6	104.5
+50				8.4	103.7
68				7.3	104.8
+50				2.7	109.4
T.P.	11.03	122.36	0.80		111.33
+75				10.2	112.2
	34.33		6.27		

Sta.	+	⊙	−	Rod	Elev.
69				6.0	116.4
Plug +20 △				4.91	117.45
+50				7.0	115.4
+85				13.40	109.0
70				13.00	109.4
+09				12.3	110.1
Ditch +12				21.0	101.4
+17				12.1	110.3
Plug +50 △				4.80	117.6
T.P.	11.80	133.72	0.44		121.92
71				11.3	122.4
+50				10.5	123.2
+75				10.6	123.1
72				7.7	126.0
+50				3.8	129.9
73 Plug △				4.49	129.23
T.P.	11.82	144.76	0.78		132.94
	23.62		1.22		

Sta.	+	⊥	−	Rod	Elev.
+50				12.7	132.1
74 Plug ⊙				9.16	135.2
+50				2.00	142.8
75 Plug ⊙	0.31	142.69	2.38		142.38
+35				14.5	128.2
+45 Ditch 10 deep					
+50				13.7	129.0
T. P.	11.76	154.03	0.42		142.27
76				9.4	144.6
+25				3.7	150.3
+50				1.2	152.8
Plug +98 △				2.18	151.85
77				2.2	151.8
T. P.	11.83	164.91	0.95		153.03
+50				10.4	154.5
78				7.8	157.1
+50				6.1	158.8
79				4.1	160.8
	23.90		3.75		

Sta.	+	⊥	−	Rod	Elev.
Plug +30 △	11.67	172.58	4.00		160.91
+50				8.4	164.2
+75				6.1	166.5
80				6.0	166.6
+15 △				6.8	165.8
T. P.	8.90	180.77	0.71		171.87
+50				7.0	173.8
+75				3.3	177.5
81				3.5	177.3
+50				9.4	171.4
82				9.0	171.8
+50				5.2	175.6
T. P.	11.60	191.20	1.17		179.60
83				9.9	181.3
+50				5.5	185.7
Plug +62 △				4.53	186.67
+90				13.60	177.60
	32.17		5.88		

Sta.	+	o	−	Rod	Elev.
+95 Ditch				21.0	170.2
84				13.8	177.9
Plug +33 △				4.87	186.33
+50				4.3	186.9
85				2.1	189.1
T. P.	11.67	202.23	0.64		190.56
+50				11.0	191.2
+75				7.8	194.4
86				6.6	195.6
+40				7.4	194.8
+50				6.1	196.1
+92				1.2	201.0
87				0.9	201.3
T. P.	10.78	211.54	1.47		200.76
+42 △				13.9	197.6
+50				12.5	199.0
88				6.7	204.8
	22.45		2.11		

Sta.	+	o	−	Rod	Elev.
+50				5.8	205.7
Plug +81 △				2.13	209.41
89				10.9	210.45
+06				15.0	196.5
T. P.	11.19	222.19	0.54		211.00
Plug +42 △				9.45	212.74
+50				7.8	214.4
90				4.7	217.5
Plug +41 △				6.73	215.46
+50				5.9	216.3
91				1.3	220.9
T. P.	11.72	233.09	0.82		221.37
+50				11.8	221.3
92				10.7	222.4
Plug +12 △				10.24	222.85
+50				6.8	226.3
93				4.5	228.6
	22.91		1.36		

Sta.	+	⊙	−	Rod	Elev.
+50				2.4	230.7
Plug +81 △				2.65	230.44
T. P.	12.00	244.05	1.04		232.05
94				11.7	232.8
+50				8.4	235.6
95				5.7	238.3
+50				2.7	241.3
Plug +58 △				2.34	241.71
+75				5.5	238.5
96				3.9	240.1
T. P.	11.95	255.33	0.67		243.38
+50				9.8	245.5
97				9.1	246.2
+50				6.1	249.2
T. P.	4.42	259.23	0.52		254.81
Plug +95 △				1.02	258.01
98				1.9	257.3
	28.37		2.23		

Sta	+	⊙	−	Rod	Elev.
+50				17.3	241.9
+55				18.5	240.7
99				2.8	256.4
T. P.	11.72	270.02	0.93		258.30
+50				8.2	261.8
Plug +90 △				9.43	260.59
100				8.3	261.7
+50				4.8	265.2
101				2.8	267.2
T. P.	11.92	281.22	0.72		269.30
+50				10.6	270.6
102				8.8	272.4
Plug +20 △				7.71	273.51
+50				6.0	275.2
+80				5.4	275.8
103				6.8	274.4
+25				10.8	270.4
	23.64		1.65		

Sta.	+	o	−	Rod	Elev.
+50				7.2	274.0
104				0.4	280.8
T. P.	11.69	292.17	0.74		280.48
+50				6.6	285.6
105				4.0	288.2
+50				1.6	290.6
T. P.	11.92	302.97	1.12		291.05
106 Plug △				10.85	292.12
+50				7.7	295.3
107				6.2	296.8
+50				3.9	299.1
108				1.3	301.7
T. P.	11.85	314.48	0.34		302.63
Plug +45 △				10.39	304.09
+50				10.1	304.4
109				5.4	309.1
+50				1.1	313.4
	35.46		2.20		

Sta.	+	o	−	Rod	Elev.
T. P.	10.36	324.20	0.64		313.84
Plug +65 △				9.95	314.25
110				5.5	318.7
+50				9.7	314.5
111				12.4	311.8
+50				3.4	320.8
T. P.	11.94	335.43	0.71		323.49
112				8.5	326.9
+50				4.7	330.7
+93 △				5.4	330.0
113 +25				1.0	334.4
T. P.	10.08	344.33	1.18		334.25
+50				8.6	335.7
+85 △				7.5	336.8
114				7.5	336.8
+50				3.7	340.6
Plug +65 △	11.54	351.18	4.69		339.64
	43.92		7.22		

Sta.	+	⊙	−	Rod	Elev.
115				12.9	338.3
+50				10.2	341.0
116				7.0	344.2
Plug +18 △				3.32	347.86
117				6.8	344.4
+50				11.0	340.2
+75				9.1	342.1
T. P.	10.07	361.07	0.18		351.00
118				9.4	351.7
+50				7.6	353.5
5/22/03 Plug +85 △	11.79	371.12	1.74		359.33 ✓
119				10.8	360.3
+50				9.3	361.8
120				8.3	362.8
+50				6.3	364.8
121				4.4	366.7
+50				3.4	367.7

Sta.	+	⊙	−	Rod	Elev.
T. P.	11.52	380.02	2.62		368.50
122				11.0	369.0
+50				8.3	371.7
123				5.0	375.0
T. P.	9.56	385.53	4.05		375.97
+50				7.6	377.9
124				5.9	379.6
+20 △				5.2	380.3
+50				5.1	380.4
125				6.5	379.0
+50				9.6	375.9
126				11.4	374.1
Plug +50 △				7.41	378.12
T. P.	11.83	394.19	3.17		382.36
N. Cor. Granite Mon. to P.L's 1296–1299–1311 B.M. and 1312				2.28	391.91
T. P.	11.83	394.19	11.83		382.36
127				14.90	379.3
	44.74		21.67		

Sta.	+	⊖	−	Rod	Elev.
+50				15.7	378.5
128				13.2	381.0
+50				13.2	381.0
129				12.7	381.5
+50				12.7	381.5
130				11.1	383.1
+50				9.4	385.8
131				8.1	386.1
Plug +45 △	9.86	397.39	6.66		387.53
132				9.6	387.8
+50				9.1	388.3
133				10.3	387.1
+50				9.3	388.1
134				7.6	389.8
+50				7.8	389.6
135				7.9	389.5
+50				6.6	390.8

Sta.	+	⊖	−	Rod	Elev.
136				5.4	392.0
+42 △				4.8	392.6
+50				4.5	392.9
T. P.	9.09	402.36	4.12		393.27
137				8.0	394.4
+50				7.2	395.2
138				6.3	396.1
+50				6.6	395.8
139				6.6	395.8
+50				6.5	395.9
140				7.7	394.7
+50				7.7	394.7
141				7.5	394.9
+50				8.5	393.9
142				9.0	393.4
+50				10.0	392.4
T. P.	9.83	402.92	9.27		393.09
	18.92		13.39		

Sta.	+	⊙	−	Rod	Elev.
143				10.7	392.2
+50				10.6	392.3
144				11.0	391.9
+50				11.0	391.9
145				10.6	392.3
+50				10.5	392.4
146				8.5	394.4
+50				7.5	395.4
147				5.7	397.2
+50				5.1	397.8
148				4.5	398.4
T. P.	7.87	406.87	3.92		399.00
+50				8.6	398.3
149				9.2	397.7
+50				10.4	396.5
150				9.5	397.4
+50				8.4	398.5

Sta.	+	⊙	−	Rod	Elev.
151				6.8	400.1
+50				4.8	402.1
T. P.	5.49	408.36	4.00		402.87
152				5.4	403.0
+50 △				5.7	402.7
153				6.1	402.3
+50				6.9	401.5
154				9.5	398.9
+50				11.6	396.8
T. P.	0.62	397.37	11.61		396.75
155				3.2	394.2
+50				6.3	391.1
156				9.3	388.1
+50				11.7	385.7
T. P.	0.81	386.27	11.91		385.46
157				2.6	383.7
+50				3.4	382.9
	6.92		27.52		

Sta.	+	o	−	Rod	Elev.
158				4.6	381.7
+50				4.9	381.4
159				5.4	380.9
+50				6.4	379.9
160				8.1	378.2
+50 △				9.4	376.9
161				11.7	374.6
T. P.	1.08	375.50	11.85		374.42
+50				3.1	372.4
162 Road				6.4	369.1
Spk in tel pole 25' left B.M. Sta. 162				3.16	372.34
+50				8.1	367.4
163				10.7	364.8
+50				12.3	363.2
T. P.	2.49	366.03	11.96		363.54
164				4.1	361.9
+50				5.2	360.8
	3.57		23.81		

Sta.	+	o	−	Rod	Elev.
165				4.5	361.5
+50				4.8	361.2
166				3.4	362.6
Plug +35 △				2.60	363.43
+50				4.2	361.8
167				4.6	361.4
+50				6.2	359.8
168				8.6	357.4
+50				9.3	356.7
169				10.0	356.0
+50				12.4	353.6
T. P.	0.81	355.57	11.27		354.76
170				3.7	351.9
+50				5.5	350.1
171				6.3	349.3
+50				8.6	347.0
172				11.0	344.6

Sta.	+	⊙	−	Rod	Elev.
+50				11.0	344.6
173				11.8	343.8
+50				10.0	345.6
T. P.	2.36	348.59	9.34		346.23
174				3.8	344.8
+50				3.6	345.0
175				3.6	345.0
+50				3.6	345.0
176				2.9	345.7
+50				4.8	343.8
177 Road				5.6	343.0
+50				5.3	343.3
178				5.2	343.4
+50				7.5	341.1
179				7.5	341.1
+50				8.1	340.5
180				7.8	340.8

Sta.	+	⊙	−	Rod	Elev.
+50				8.5	340.1
T. P.	2.83	343.88	7.54		341.05
181				2.9	341.0
Alg +35				1.73	342.15
+50				2.9	341.0
182				4.7	339.2
+50				5.4	338.5
183				7.1	336.8
+50				7.7	336.2
184				7.2	336.7
+50				7.2	336.7
185				7.6	336.3
+50				5.3	338.6
186				5.7	338.2
+50				6.1	337.8
T. P.	4.31	342.52	5.67		338.21
187				4.6	337.9
	7.14		13.21		

Sta.	+	⊙	−	Rod	Elev.
+50				4.4	338.1
188				4.3	338.2
+50				4.0	338.5
189				3.9	338.6
+50				4.3	338.2
190				4.1	338.4
+50				5.5	337.0
191				6.0	336.5
+50				7.7	334.8
192				5.8	336.7
+50				6.5	336.0
193				6.9	335.6
+50				7.4	335.1
T. P.	2.47	337.89	7.10		335.42
194				4.9	333.0
+50				4.5	333.4
195				5.1	332.8

Sta.	+	⊙	−	Rod	Elev.
+50				6.6	331.3
196				5.5	332.4
+50				5.9	332.0
197				5.7	332.2
+50				6.3	331.6
198				7.1	330.8
+50				7.5	330.4
199				7.9	330.0
+50				8.3	329.6
200				9.2	328.7
T. P.	4.37	334.07	8.19		329.70
+50				4.2	329.9
201				5.6	328.5
Plug +50				3.56	330.51
202				4.5	329.6
+50				5.9	328.2
203				6.1	328.0

Sta.	+	⊙	−	Rod	Elev.
+50				5.1	329.0
204				5.3	328.8
+50				4.1	330.0
205				4.6	329.5
+50				4.4	329.7
206				3.1	331.0
+50				3.1	331.0
207				2.6	331.5
Plug +35 △	9.64	342.43	1.28		332.79
+50				10.7	331.7
208				10.3	332.1
+50				10.0	332.4
209				9.1	333.3
+50				7.9	334.5
210				7.0	335.4
+50				6.3	336.1
211				4.1	338.3

Sta.	+	⊙	−	Rod	Elev.
+50				2.5	339.9
T.P.	10.27	351.58	1.12		341.31
212				9.1	342.5
+50				8.9	342.7
213				8.3	343.3
+50				7.7	343.9
Plug +90 △				6.08	345.50
214				6.7	344.9
+50				6.4	345.2
215				5.7	345.9
+50				5.3	346.3
216				4.7	346.9
+50				4.4	347.2
217				3.0	348.6
+50				3.6	348.0
218				3.3	348.3
+50				2.9	348.7

Sta.	+	o	−	Rod	Elev.
T. P.	7.83	356.56	2.85		348.73
219				7.7	348.9
+50				7.5	349.1
220				6.7	349.9
+50				7.3	349.3
221				7.5	349.1
+50				6.6	350.0
222				6.7	349.9
+50				6.3	350.3
223				5.6	351.0
+50				5.4	351.2
224				5.0	351.6
+50				3.8	352.8
225				3.4	353.2
+50				2.6	354.0
T. P.	2.09	356.91	1.74		354.82
226				2.8	354.1
	9.92		4.59		

Sta.	+	o	−	Rod	Elev.
+50				3.6	353.3
Plug +60				3.76	353.15
227				4.8	352.1
+50				5.0	351.9
228				5.9	351.0
+50				6.4	350.5
229				7.0	349.9
+50				6.8	350.1
230				5.7	351.2
+50				5.0	351.9
231				5.9	351.0
+50				6.7	350.2
232				7.1	349.8
T. P.	3.01	352.84	7.08		349.83
+50				3.7	349.1
233				4.5	348.3
+50				4.9	347.9

Sta.	+	⊙	−	Rod	Elev.
234				4.5	348.3
+50				4.9	347.9
235				4.6	348.2
+50				4.7	348.1
236				4.8	348.0
+50				4.5	348.3
237				4.6	348.2
+50				4.4	348.4
238				4.1	348.7
+50				3.8	349.0
239				3.3	349.5
T. P.	5.70	355.15	3.39		349.45
+50				5.7	349.4
240				4.3	350.8
Plug +05				4.10	351.05
+50				4.6	350.5
241				4.6	350.5

Sta.	+	⊙	−	Rod	Elev.
+50				4.4	350.7
242				5.4	349.7
+50				5.0	350.1
243				4.5	350.6
+50				3.4	351.7
244				3.2	351.9
+50				2.8	352.3
T. P.	8.40	361.38	2.17		352.98
245				7.9	353.5
+50				7.1	354.3
246				6.3	355.1
+50				5.5	355.9
247				5.0	356.4
+50				4.4	357.0
248				3.5	357.9
+50				2.6	358.8
T. P.	6.37	365.45	2.30		359.08
	14.77		4.47		

Sta.	+	⊙	−	Rod	Elev.
249				4.9	360.5
+50				3.5	361.9
Plug +70 △ 5/26/03	11.17	373.87	2.75		362.70
250				10.8	363.1
+50				9.8	364.1
251				8.7	365.2
+50				7.9	366.0
252				6.5	367.4
+50				4.5	369.4
253				3.0	370.9
T. P.	7.83	379.38	2.32		371.55
+50				7.2	372.2
254				5.9	373.5
+50				6.4	373.0
255				7.9	371.5
+50				4.9	374.5
T. P.	11.23	390.15	0.46		378.92
	30.23		5.53		

Sta.	+	⊙	−	Rod	Elev.
256				10.4	379.7
Plug +28 △				9.61	380.54
+50				9.2	380.9
257				9.0	381.1
+50				7.4	382.7
258				4.6	385.5
T. P.	11.10	399.48	1.77		388.38
+50				10.4	389.1
259				6.7	392.8
+50				4.6	394.9
260				2.9	396.6
Plug +45 △	11.25	409.59	1.14		398.34
+50				11.00	398.6
261				8.5	401.1
+45 △				4.9	404.7
+50				4.9	404.7
262				4.1	405.5
	22.35		2.91		

Sta.	+	⊙	−	Rod	Elev.
+50				0.5	409.1
T. P.	11.20	420.45	0.34		409.25
Plug +67 △				9.56	410.89
263				7.7	412.7
+50				5.1	415.3
264				3.7	416.7
+50				3.0	417.4
265				2.4	418.0
+50				2.3	418.1
Plug +66 △				2.38	418.1
266				2.5	417.9
+50				2.8	417.6
T. P.	1.56	419.68	2.33		418.12
267				2.2	417.5
+50				2.7	417.0
268				3.4	416.3
+50				4.2	415.5
	12.76		2.67		

Sta.	+	⊙	−	Rod	Elev.
269				5.1	414.6
+50				6.0	413.7
270				7.3	412.4
+50				8.3	411.4
271				9.8	409.9
Plug +30 △	0.79	409.61	10.86		408.82
+50				1.7	407.9
272				4.4	405.2
+50				4.0	405.6
273				6.5	403.1
+50				8.9	400.7
274				10.4	399.2
+50				11.1	398.5
275				12.1	397.5
T. P.	2.36	400.51	11.46		398.15
+50				4.1	396.4
276				4.4	396.1
	3.15		22.32		

Sta.	+	⊙	−	Rod	Elev.
+50				4.8	395.7
277				5.1	395.4
Plug +40 △				4.27	396.24
+50				4.3	396.2
278				5.5	395.0
+50				7.0	393.5
279				10.6	389.9
+50				12.4	388.1
T.P.	1.16	389.74	11.93		388.58
280				3.3	386.4
+50				4.4	385.3
281				5.3	384.4
+50				6.6	383.1
282				6.7	383.0
Plug +30 △				7.05	382.69
+50				7.8	381.9
283				8.2	381.5

Sta.	+	⊙	−	Rod	Elev.
+50				9.1	380.6
284				9.9	379.8
+50				10.3	379.4
285				10.9	378.8
T.P.	3.81	383.38	10.17		379.57
+50				4.9	378.5
286				5.2	378.2
+50				5.5	377.9
287				8.1	375.3
+50				10.1	373.3
288				8.0	375.4
Plug +35 △				2.78	380.60
+50				2.6	380.8
289				3.6	379.8
+50				6.3	377.1
290				7.9	375.5
+50				8.8	374.6

Sta.	+	⊙	−	Rod	Elev.
T. P.	2.85	377.82	8.41		374.97
291				4.7	373.1
+50				3.6	374.2
292				4.3	373.5
+50				4.7	373.1
293				4.9	372.9
+50				5.1	372.7
294				6.3	371.5
+50				6.9	370.9
295				7.9	369.9
+50				8.6	369.2
296				9.9	367.9
T. P.	8.90	377.82	8.90		368.92
+50				9.6	368.2
297				8.5	369.3
+50				6.7	371.1
298				5.2	372.6
	11.75		17.31		

Sta.	+	⊙	−	Rod	Elev.
+50				4.4	373.4
299 Plug △				4.70	373.1
+50				5.1	372.7
300				5.9	371.9
+50				6.3	371.5
301				7.5	370.3
T. P.	0.62	371.16	7.28		370.54
+50				3.3	367.9
302				4.9	366.3
+50				5.5	365.7
303				6.1	365.1
+50				7.4	363.8
304+03 △				9.1	362.1
B.M. Plug on City Line 100' N. Wly of Sta 304+03			7.64		365.52 ✓
			14.92		

5/29/03 Levels for Road from Boulevard Survey, and thence to Sta. 43+71 to Sta. 67+50 "Main Line" Sta. 45+26 = (60+50) "C" Line

Sta.	+	⊙	−	Rod	Elev.
B.M.	0.87	120.41			119.54
43+71				1.9	118.5
44				4.6	115.8
+50				5.1	115.3
45				11.8	108.6
+50				13.5	106.9
46				13.2	107.2
+03				13.2	107.2
ditch +07				20.7	99.7
+15				12.1	108.3
+50				10.1	110.3
47				9.4	111.0
+50				10.6	109.8
T.P.	1.12	109.80	11.73		108.68
48				3.9	105.9
+29 △				7.4	101.4
+50				9.0	100.8
	1.99		11.73		

Sta.	+	⊙	−	Rod	Elev.
49				8.7	101.1
+20				8.0	101.8
T.P.	1.67	100.03	11.44		98.36
+50				2.7	97.3
50				3.5	96.5
+30				1.2	98.8
+50				3.2	96.8
+85				4.7	95.3
51				7.1	92.9
+32				11.4	88.6
+50				11.3	88.7
52				10.0	90.0
Plug +22 △				8.70	91.3
+50				8.0	92.0
53				6.9	94.1
+50				11.6	88.4
T.P.	0.42	88.84	11.61		88.42
	2.09		23.05		

Sta.	+	⊙	−	Rod	Elev.
54				7.1	81.7
+50				11.1	77.7
55				9.5	79.3
+20				7.7	81.1
+50				8.1	80.7
+80				11.1	77.7
56				10.6	78.2
+25				9.7	79.1
Plug +48	0.91	78.08	11.67		77.17
57				0.3	77.8
+50				4.1	74.0
58				7.5	70.6
+50				8.5	69.6
59				8.2	69.9
+50				6.6	71.5
Plug +60				6.03	17.8
T. P.	4.97	73.25	9.80		68.28
	5.88		21.47		

Sta.	+	⊙	−	Rod	Elev.
60				7.6	65.7
+50				7.6	65.7
61				6.2	67.1
+50				3.0	70.3
+74				1.5	71.8
62				4.7	68.6
+50				10.8	62.5
63				9.1	64.2
T. P.	1.43	63.22	11.46		61.79
+50				2.5	60.7
64				8.3	54.9
+25				9.3	53.9
+50				8.9	54.3
65				4.0	59.2
+50				3.4	59.8
66				9.4	53.8
T. P.	2.16	53.82	11.56		51.66
	3.59		23.03		

Sta.	+	o	−	Rod	Elev.
+20				3.5	50.3
+50				4.4	49.4
67				3.6	50.2
Plug +50 △ =0				3.01	50.8
+50				4.5	49.3
1				6.1	47.7
+50				7.9	45.9
2				9.7	44.1
+50				12.0	41.8
T.P.	2.46	44.38	11.90		41.92
3				4.5	39.9
+50				6.6	37.8
4				6.7	37.7
+50				7.8	36.6
5				8.5	35.9
+50				8.0	36.4
6				7.4	37.0

Sta.	+	o	−	Rod	Elev.
+50				7.5	36.9
7				7.1	36.3
+50				6.2	38.2
8				6.2	38.2
+50				7.0	37.4
9				7.4	37.0
+50				6.0	38.4
10				5.7	38.7
T.P.	3.62	43.21	4.79		39.59
+50				4.6	38.6
11				6.0	37.2
+50				4.3	38.9
12				3.4	39.8
+50				3.9	39.3
Plug +78 △				4.46	38.75
13				6.9	36.3
+40				11.6	31.6

Sta.	+	o	−	Rod	Elev.
+41				13.3	29.9
+50				13.9	29.3
Brk +58				13.4	29.8
+60				11.7	31.5
14				10.6	32.6
+50				8.3	34.9
15				5.8	37.4
+50				4.4	38.8
16				6.5	36.7
T. P.	9.02	45.72	6.51		36.70
+50				11.3	34.4
17				10.4	35.3
+50				10.7	35.0
18				8.5	37.2
+50				7.6	38.1
19				8.3	37.4
+50				8.7	37.0

Sta.	+	o	−	Rod	Elev.
20				8.7	37.0
+50				7.7	38.0
21				6.9	38.8
+50				6.6	39.1
22				6.4	39.3
T. P.	10.83	50.94	5.61		40.11
+50				11.1	39.8
23				10.3	40.6
+50				9.6	41.3
24				9.6	41.3
+50				9.1	41.8
25				9.0	41.9
+50				7.9	43.0
26				7.2	43.7
+50				5.8	45.1
27 Bkg	11.87	58.17	4.64		46.30
+50				11.1	47.1
	22.70		10.25		

Sta.	+	⊖	−	Rod	Elev.
28				10.1	48.1
+50				9.0	49.2
29				8.1	50.1
+50				7.1	51.1
30				6.9	51.3
+50				7.0	51.2
31				5.7	52.5
+50				4.8	53.4
32				3.1	55.1
+50				1.8	56.4
T.P.	11.32	68.06	1.43		56.74
33				11.1	57.0
+50				10.8	57.3
34				10.0	58.1
+50				9.4	58.7
35				9.5	58.6
+50				10.0	58.1

Sta.	+	⊖	−	Rod	Elev.
36				10.7	
+50				10.1	
37				8.4	
+50				5.8	
38				2.2	
Plug +50	10.65	78.00	0.71		67.35
39				10.2	67.8
+50				9.6	68.4
40				9.0	69.0
+50				7.5	70.5
41				4.8	73.2
+50				4.1	73.9
42				7.3	70.7
+50				7.0	71.0
43				6.3	71.7
+50				4.3	73.7
44				2.8	75.2

Sta.	+	o	−	Rod	Elev.
T. P.	6.03	81.80	2.23		75.77
+50				5.6	76.2
+5				2.9	78.9
Elev. +36 = 60+50			1.56		80.24

8/10/03 Alverson
Fortner
McCuliffe

Cross Section of 3d St
From N. Line Nutmeg to S. Line Olive St

B.M.	+	H.I.	—	Rod	Elev.
	2.81	266.19			263.38

Cross Section from E side to W side

O.P.				7.70	258.5
" Curb				8.00	258.2
" 1/4				8.20	258.0
" Lt				8.5	257.7
" 1/4				8.8	257.4
" C				9.0	257.2
W. P. E. side 0+25 P				9.4	256.8
" C				7.3	258.9
" 1/4				7.7	258.5
" Lt				8.0	258.2
" 1/4				8.1	258.1
" C				8.5	257.7
W. P.				8.7	257.5

E. side 0+50 P		H.I. 266.19		Rod	Elev.
" C				6.5	259.7
" 1/4				6.7	259.5
" Lt				6.7	259.5
" 1/4				7.3	258.9
" C				7.7	258.5
W. P. E side 0+75 P				7.9	258.3
" C				8.0	258.2
" 1/4				6.0	260.2
" Lt				6.2	260.0
" 1/4				6.6	259.6
" C				6.9	259.3
W. P. E side 1+00 P				7.1	259.1
" C				7.4	258.8
" 1/4				7.5	258.7
				5.3	260.9
				6.1	260.1
				5.9	260.3

continued

	H.I. 266.19	Rod	Elev
1+00 Ct		6.2	260.0
" 1/4		6.5	259.7
" b		6.9	259.3
W.P. E side 1+25 P		7.1	259.1
" b		5.1	261.1
" 1/4		5.3	260.9
" bE		5.6	260.6
" 1/4		5.5	260.7
" b		6.1	260.1
W.P. E side 1+50 P		6.5	259.7
" b		4.1	262.1
" 1/4		5.1	261.1
" bt		5.3	260.9
" 1/4		5.2	261.0
" b		5.6	260.6
" W.P.		5.7	260.5
		6.1	260.1

	H.I. 266.19	Rod	Elev.
E side 1+75 P		3.7	262.5
b		3.9	262.3
1/4		3.9	262.3
bt		4.3	261.9
1/4		4.8	261.4
b		5.0	261.2
W.P. E side 2+00 P		5.5	260.7
b		3.4	262.8
1/4		3.5	262.7
bt		3.7	262.5
1/4		4.0	262.2
b		4.2	262.0
W.P. E side 2+25 P		4.7	261.5
b		5.0	261.2
1/4		2.6	263.6
		2.8	263.4
		3.3	262.9

continued

	H.I.	Rod	Elev.
	266.19		
2+25 1ft E of bt		3.6	262.6
bt		5.5	260.7
1/4		5.9	260.3
Top bank		6.42	259.77
W. P		6.1	260.1
E side 2+50 P		2.9	263.3
b		3.0	263.2
1/4		3.0	263.2
1ft E bt		3.3	262.9
E side 2+75 P		2.8	263.4
b		3.1	263.1
1/4		3.3	262.9
1ft E bt		3.4	262.8
E side S. Line Olive St P		2.5	263.7
b		3.0	263.2
1/4		3.1	263.1
1ft E bt		3.4	262.8

The last 75' is graded on W. side of St

10/8/03

Levels along center & 1/4 of 17th from Hat. to K st. {Anderson, McAuliffe, Lambert}

Sta	+	H.I.	−	ELv	Rod −	E 1/4. ELv	Rod −	Center ELv	Rod −	W 1/4 ELv
B.M.	6.82 H. st.	44.43		37.61						
0.					5.60	38.83	5.80	38.63	6.40	38.03
+50					5.30	39.13	5.70	38.73	6.30	38.13
1.					4.90	38.53	5.30	39.13	5.95	38.48
+50 ✓					4.50	39.93	4.80	39.63 ✓	5.60	38.83 ✓
2.					4.00	40.43	4.40	40.03	5.30	39.13
+50					3.90	40.53	4.20	40.23	5.10	39.33
3.					3.80	40.63	3.90	40.53	4.70	39.73
T.P. ⊙	7.54 I. st.	47.37	4.60	39.83						
+80 +					6.20	41.17	6.60	40.77	7.30	40.07
4+30 50					6.30	41.07	6.50	40.87	7.10	40.27
+80 100					5.70	41.67	5.90	41.47	6.90	40.47
5+30 150					5.40	41.97	5.70	41.67	6.60	40.77
+80 200					5.00	42.37	5.30	42.07	6.20	41.17
6+30 250					4.70	42.67	5.00	42.37	5.90	41.47
+80 300					4.60	42.77	5.07	42.30	5.70	41.67
	J. st.									

Levels on 17th st continued

Sta	+	H.I.	−	ELV.	Rod.	E ¼ ELV.	Rod.	Center ELV.	Rod.	W ¼ ELV.
		47.37								
7+60					4.60	42.77	5.00	42.37	5.70	41.60
8+10 +					4.70	42.67	5.00	42.37	5.90	41.47
+60 −					4.80	42.57	5.30	42.07	6.40	40.97
9+10 −					5.20	42.17	5.60	41.77	6.50	40.87
+60					5.60	41.77	5.70	41.67	6.65	40.72
10+10					5.70	41.67	5.90	41.47	6.90	40.47
+60					6.10	41.27	6.30	41.07	7.20	40.17
	N. side of K st.									
T.P. ⊙	5.26	46.35	6.28	41.09						
			5.86	40.49	Check	on B.M. S.W.		Spike in Elec pole		

Bean St.

440	215.71	211.21	
So Line of South Park,			
West Line	5.6	210.1	
C	5.8		209.9
1/4	6.0		209.7
Ct.	6.2		209.5
1/4	6.5		209.2
C	6.7		209.0
East L	7.1	208.6	
25' No of So Line			
E L	6.7		209.0
C	6.6		209.1
1/4	6.3		209.4
Ct.	6.0		209.7
1/4	5.8		209.9
C	5.5		210.2
W L.	5.1		210.6

10/20/04 Hutchison 7 + E

50' No of Park Line

West L	15.71	49	210.8
C		5.3	210.4
1/4		5.5	210.2
Ct.		5.8	209.9
1/4		6.2	209.5
C		6.5	209.2
East L		6.6	209.2
75' No of			
E L		6.7	209.0
C		6.1	209.6
1/4		5.6	210.1
Ct.		5.4	210.3
1/4		5.2	210.5
C		5.1	210.6
West L		4.7	211.0

100' No of

West L	215.71	4.6	211.1	
C		5.0		210.7
1/4		5.2		210.5
Ct.		5.8		209.9
1/4		6.1		209.6
—		6.2		209.5
E.L.		6.5	209.2	

125' No of

East L.	6.7	209.0
—	6.2	209.5
1/4	6.0	209.7
Ct.	5.8	209.9
4	5.3	210.4
—	4.8	210.9
W.L.	4.3	211.4

150' No of

W.L.	4.1	211.6	
—	4.9		210.8
4	5.1		210.6
Ct.	5.5		210.2
4	5.9		209.8
—	6.1		209.6
East L	6.3	209.4	

175' No of Park Line

E.L.	6.0	209.7
—	6.0	209.7
4	5.5	210.2
Ct.	5.1	210.6
4	4.4	211.3
—	4.5	211.2
West L.	4.1	211.6

200' No of P. L.

W L	215.71	3.8	211.9	
—		4.0		211.7
4		4.3		211.4
Ct.		4.8		210.9
4		5.1		210.6
—		5.5		210.2
East L		5.7	210.0	

225' No

E. L.		5.8		209.9
—		5.2		210.5
4		5.1		210.6
Ct.		4.7		211.0
4		4.2		211.5
—		4.1		211.6
West Line		3.5		212.2

250' No of

West L		3.5	212.2	
—		4.0		211.7
4		4.2		211.5
Ct.		4.7		211.0
4		4.9		210.8
—		5.3		210.4
East L.		5.2	210.5	

275' No of

East L		5.3		210.4
—		5.0		210.7
4		4.7		211.0
Ct.		4.5		211.2
4		4.2		211.5
—		3.9		211.8
West L.		3.3		212.4

Beam

(300) So Line of Howard

West Line	215.71	3.2	212.5	
—		3.9		211.8
4		3.9		211.8
Ct.		4.5		211.2
4		4.8		210.9
—		5.1		210.6
East Line		5.6	210.1	

So Curb Line of Howard

E.L.		5.7		210.0
—		5.4		210.3
4		5.1		210.6
Ct.		4.7		211.0
4		4.2		211.5
—		3.9		211.8
West Line		3.2		212.5
	4.71	217.47	2.95	212.76

So 1/4 of Howard

West Line	217.47	5.0	212.5
—		5.8	211.7
4		6.1	211.6
Ct.		6.6	210.9
4		7.1	210.4
—		7.3	210.2
E.L.		7.7	209.8

Center Line of Howard

East L.	7.8	209.7
—	7.5	210.0
4	7.1	210.4
Ct.	6.6	210.9
4	6.1	211.4
—	5.6	211.9
West Line	5.1	212.4

No ¼ of Harvard

West L.	217.47	5.1	212.4
—		5.6	211.9
4		5.9	211.6
Ct.		6.4	211.1
4		7.0	210.5
—		7.4	210.1
E L.		7.9	209.6

No Curb line of Harvard

East L	8.0	209.5
—	7.3	210.2
4	6.9	210.6
Ct.	6.3	211.2
4	5.9	211.6
—	5.4	212.1
West Line	5.1	212.4

North line of Harvard.

West L	217.47	4.6	212.9
—		5.1	212.4
4		5.9	211.6
Ct.		6.2	211.3
4		6.7	210.8
—		7.2	210.3
East Line		7.8	209.7

25' No of Harvard

E. L.	7.4	210.1
—	7.1	210.4
4	6.8	210.7
Ct.	6.2	211.3
4	5.8	211.7
—	5.1	212.4
West Line	4.6	212.9

Bean

50' No of Harvard

West L.	217.47	4.7	212.8
—		5.0	212.5
4		5.7	211.8
Ct.		6.0	211.5
4		6.6	210.9
—		7.0	210.5
East L		7.3	210.2

75' No of Harvard

East L	7.4	210.1
—	7.1	210.4
4	6.7	210.8
Ct.	6.2	211.3
4	5.8	211.7
—	5.0	212.5
W. L.	4.7	212.8

100' No of

W. L.	5.0	212.5
—	5.4	212.1
4	5.6	211.9
Ct.	6.3	211.2
4	6.6	210.9
—	7.3	210.2
East Line	7.5	210.0

125' No of

East L.	7.6	209.9
—	7.0	210.5
4	6.4	211.1
Ct.	5.9	211.6
4	5.4	212.1
—	5.3	212.2
West L.	4.8	212.7

150' No of Howard

West Line	217.4	4.2	213.3
—		4.8	212.7
4		5.2	212.3
Ct.		5.7	211.8
4		6.6	210.9
—		7.2	210.3
E.L.		7.7	209.8

175' No of

E.L.	7.9	209.6
—	7.4	210.1
4	6.8	210.7
Ct.	6.0	211.5
4	5.6	211.9
—	5.1	212.4
W.L.	4.7	212.8

200' No of Howard

West L.	4.7	212.8
—	5.4	212.1
4	6.0	211.5
Ct.	6.5	211.0
4	7.1	210.4
—	7.6	209.9
E.L.	8.2	209.3

225' No of

East L.	8.5	209.0
—	8.0	209.5
4	7.5	210.0
Ct.	7.0	210.5
4	6.6	210.9
—	6.1	211.4
West L.	5.7	211.8

250' No of Harvard

West Line	217.47	6.3	211.2	
–		6.5		211.0
4		7.0		210.5
Ct,		7.2		210.3
4		7.8		209.7
–		8.2		209.3
East L,		8.6	208.9	

275' No of

E L,		8.9		208.6
–		8.5		209.0
4		7.9		209.6
Ct,		7.5		210.0
4		7.2		210.3
–		6.9		210.6
West Line		6.5		211.0

(300) So Line of Dartmouth,

West Line	217.47	7.0	210.5	
–		7.2		210.3
4		7.4		210.1
Ct,		7.7		209.8
4		8.0		209.5
–		8.6		208.9
East Line		9.2	208.3	

No Line of Dartmouth

East L,		10.4	207.1	
–		10.0		207.5
4		9.3		208.2
Ct,		8.9		208.6
4		8.3		209.2
–		8.2		209.3
W Line		7.4	210.1	
	4.73	214.85	6.3 –	211.2 211.15

25' No of Dartmouth

West Line	215.85	5.7	210.1
—		6.4	209.4
4		6,7	209.1
Ct,		7,2	208.6
4		8,1	207.7
—		8,5	207.3
E, L,		9,1	206.7

50' No of Dart

East L		8,6	207.3
—		8,0	207.8
4		7,4	208.1
Ct.		7,0	208.8
4		6,7	209.1
—		6,3	209.5
West Line		5.5	210.4

75' No of Dartmouth

West Line		5,1	210.8
—		5,9	210.0
4		6,2	209.7
Ct,		6,8	209.1
4		7,4	208.5
—		7,7	208.2
East L		8,3	207.6

100' No of Dart

E L,		7.9	208.0
—		7,4	208.5
4		7,0	208.9
Ct,		6,7	209.2
4		6,1	209.8
—		6,0	209.9
West L		5.7	210.7

Beam 2.

125' N. of Dartmouth

West Line	210.85	5.2		210.7
—		5.8		210.1
4		5.8		210.1
Ct		6.5		209.4
4		6.8		209.1
—		7.3		208.6
East L		7.8		208.1

150' N. of

East L.		7.8	208.1	
—		7.2		208.7
4		6.7		209.2
Ct.		6.6		209.3
4		5.9		210.0
—		5.6		210.3
W L.		4.9	211.0	

175' N. of

West L.		5.2		210.7
—		5.6		210.3
4		5.9		210.0
Ct.		6.3		209.6
4		6.5		209.4
—		6.7		209.2
E L.		6.8		209.1

200' N. of

East L.		6.3	209.6	
—		6.0		209.9
4		5.7		210.2
Ct.		5.4		210.5
4		5.4		210.5
—		5.2		210.7
West L.		4.5	211.4	

225' No of Dartmouth

West L	215.85	3,6		212.3
—		4,5		211.4
4		4,6		211.3
Ct.		4,7		211.2
4		4,9		211.0
—		5,0		210.9
E,L,		5,2		210.7

250' No of

East L	4,5	211.4	
—	4,0		211.9
4	4,2		211.7
Ct.	4,1		211.8
4	4,0		211.9
—	4,0		211.9
West Line	3,9	212.0	

275' No of

West Line	215.85	3,2		212.7
—		3,5		212.4
4		3,4		212.5
Ct.		3,6		212.3
4		3,8		212.1
—		4,0		211.9
East Line		3,9		212.0

(300) So Line of Amherst,

East Line	3,1	212.8	
—	2,8		213.1
4	2,8		213.1
Ct.	2,9		213.0
4	3,0		212.9
—	2,8		213.1
West Line	2.4	213.5	
B.M.	1.36	214.49	Spk

2nd post West of S.W. Cor of Amherst + Bean Out

So Curb Line of Amherst.

West Line	215.85	2.1	213.8
—		2.3	213.6
4		2.6	213.3
Ct.		2.8	213.1
4		2.9	213.0
—		2.9	213.0
East Line		3.0	212.9

So 1/4 of Amherst

East Line		2.7	213.2
—		2.7	213.2
4		2.3	213.6
Ct.		2.3	213.6
4		2.1	213.8
—		2.0	213.9
West Line		1.4	214.5

Center Line of Amherst

West Line	215.85	1.0	214.9
—		1.3	214.6
4		1.4	214.5
Ct.		1.5	214.4
4		1.8	214.1
—		2.1	213.8
East L.		2.3	213.6

No 1/4 of Amherst

E. L.		2.0	213.9
—		1.6	214.3
4		1.3	214.6
Ct.		1.0	214.9
4		0.8	215.1
—		0.6	215.3
West Line		0.5	215.4

Bean Street 10/20/04
Hutchison
7 + E

Mo. Curb Line of Amherst

West Line		215.85	0,2		215.7
—			0,4		215.5
4			0,5		215.4
Ct.			0,8		215.1
1/4			1,1		214.8
—			1,4		214.5
East Line			1,6		214.3

Mo Line of Amherst

East Line			1,3	214.6	
—			0,9		215.0
4			0,5		215.4
Ct.			0,1		215.8
~~4~~	5,84	220.33	1.15	214.49	
1/4			4,1		216.2
—			4,1		216.2
West Line			4.1	216.2	

25' Mo of Amherst.

W. Line		220.33	3,6		217.7
C			3,6		217.7
1/4			3,7		217.6
Ct.			4,0		216.3
4			4,5		215.8
—			5,0		215.3
E.L.			5,4		214.9

50' Mo of Amherst

East L			5,1	215.2	
—			4,8		215.5
4			4,4		215.9
Ct.			4,1		216.2
4			3,9		216.4
—			3,5		216.8
West L			3,7	216.6	

75' No of Amherst,

West L	220.33	4.3		216.0
—		4.2		216.1
4		4.5		215.8
Ct.		4.8		215.5
4		4.8		215.5
—		4.8		215.5
East L		4.8		215.5

100' No of Amherst

East Line		4.8	215.5	
—		4.9		215.4
4		5.3		215.0
Ct.		5.6		214.7
4		5.4		214.9
—		5.5		214.8
West L		5.4	214.9	

125' No of

W. L.	220.33	6.2		214.1
—		6.0		214.3
4		5.9		214.4
Ct		5.5		214.8
4		5.6		214.7
—		5.5		214.8
East L.		5.1		215.2

150' No of Amherst

East L		4.9	215.4	
—		5.2		215.1
4		5.6		214.7
Ct.		6.0		214.3
4		6.2		214.1
—		6.5		213.8
West L.		6.8	213.5	

Bean St. Hutchison 7 + E } 10/21/04

175' No of Amherst

West L.		220.33	7.0		213.3
—			6.6		213.7
4			6.4		213.9
Ct.			6.1		214.2
4			5.9		214.4
—			5.6		214.7
East L.			5.1		215.2
(190') No Line of So Park.					
East L			5.4	214.9	
—			5.8		214.5
4			5.9		214.4
Ct.			6.0		214.3
4			6.2		214.1
—			6.4		213.9
West Line			6.8	213.5	
	6.63	225.26	17.0	218.63	

8.3
6.8
15

114.5
8.9
5.4
3.5

29th Street

No. Line of So Park (188.6 No. of Amherst)

West Line	225.26	4.6	220.7	
—		4.2		221.1
4		3.8		221.5
Ct.		3.0		222.3
4		2.4		222.9
—		1.7		223.6
East Line		1.0	224.3	

175' No. of Amherst.

East Line		1.0		224.3
—		1.4		223.9
4		2.2		223.1
Ct.		3.0		222.3
4		3.7		221.6
—		4.5		220.8
West Line		4.9		220.4

150' No. of Amherst.

West Line	225.26	6.0	219.3	
—		4.5		220.8
4		3.9		221.4
Ct.		3.1		222.2
4		2.4		222.9
—		1.6		223.7
East Line		1.2	224.0	

125 No. of Amherst

East Line	1.5	223.8
—	1.8	223.5
4	2.5	222.8
Ct.	3.5	221.8
4	4.3	221.0
—	5.2	220.1
W Line	6.0	219.3

29th

100' No of Amherst.

West Line	225.26	6.7	218.6	
—		5.8		219.5
4		5.0		220.3
Ct.		4.2		221.1
4		3.4		221.9
—		2.9		222.4
East Line		2.4	222.9	

75' No of Amherst

East Line		3.4		221.9
—		4.3		221.0
4		5.3		220.0
Ct.		5.7		219.6
4		6.1		219.2
—		6.9		218.4
West L.		7.5		217.8

50' No of Amherst.

West Line	225.26	8.3	217.0	
—		7.8		217.5
4		7.2		218.1
Ct.		6.5		218.8
4		5.6		219.7
—		4.7		220.6
East Line		3.8	221.5	

25' No of Amherst

East Line		4.4		220.9
—		5.3		220.0
4		6.2		219.1
Ct		7.2		218.1
4		7.9		217.4
—		8.4		216.9
West Line		8.9		216.4

No Line of Amherst.

West Line	225.26	9.5	215.8	
—		9.2		216.1
4		8.7		216.6
Ct.		7.9		217.4
4		6.9		218.4
—		5.9		219.4
East Line		4.9	220.4 ~~200~~	

No Curb Line of Amherst

East Line	5.4	219.9
—	6.6	218.7
4	7.3	218.0
Ct.	8.3	217.0
4	9.1	216.2
—	9.7	215.6
West Line	10.1	215.2

No 1/4 Line of Amherst.

West Line	10.6	214.7
—	10.3	215.0
4	9.7	215.6
Ct.	9.0	216.3
4	8.2	217.1
—	7.5	217.8
East Line	6.5	218.8

Center Line at Amherst.

East Line	7.6	217.7
—	8.4	216.9
4	9.1	216.2
Ct.	9.7	215.6
4	10.4	214.9
—	11.0	214.3
West Line	11.2	214.1

So 1/4 of Amherst.

West Line	225.26	12.0	213.3
—		11.6	213.7
4		11.2	214.1
Ct.		10.5	214.8
4		9.5	215.5
—		9.4	215.9
East Line		8.7	216.6

So Curb Line of

East L	9.8	215.5
—	10.1	215.2
4	10.7	214.6
Ct.	11.4	213.9
4	11.9	213.4
—	12.4	212.9
W.L.	12.8	212.5

So Line of Amherst.

West Line	225.26	13.2	212.0	
—		12.9		212.4
4		12.7		212.6
Ct.		12.5		212.8
4		12.1		213.2
—		11.5		213.8
East Line		11.2	214.0	
	0.53	214.41	11.38	213.88

25' ~~So of~~ Amherst

East L	1.6	212.8
—	2.2	212.2
4	2.4	212.0
Ct.	2.7	211.7
4	3.0	211.4
—	3.2	211.2
West Line	3.1	211.3

50' So of Amherst

W.L.	214.41	3.6	210.8	
—		3.8		210.6
4		3.7		210.7
Ct.		3.5		210.9
4		3.2		211.2
—		3.1		211.3
East L		2.9	211.5	

75' So of Amh

East L.	4.1	210.3
—	4.0	210.4
4	4.0	210.4
Ct.	4.0	210.4
4	4.2	210.2
—	4.4	210.0
W.L.	4.1	210.3

100' So of Amherst

W.L.	214.41	4.9	209.5	
—		4.9		209.5
4		4.8		209.6
Ct		4.8		209.6
4		4.8		209.6
—		4.9		209.5
East Line		5.1	209.3	

125' So of Amherst

East L.	6.6	207.8
—	6.0	208.4
4	5.7	208.7
Ct.	5.5	208.9
4	5.4	209.0
—	5.5	208.9
W L	5.4	209.0

150' So of Amherst

West Line	214.41	6.0	208.4	
—		6.0		208.4
4		6.9		208.5
Ct.		6.0		208.4
4		6.6		207.8
—		8.0		206.4
East Line		9.6	204.8	

175 So of Amh

East Line	11.7	202.7
9' West of East Line	12.6	201.8
—	10.7	203.7
4	9.1	205.3
Ct.	7.2	207.2
4	6.9	207.5
—	6.5	207.9
W.L.	6.4	208.0

200' So of Amherst

W.L.	214.41	7.6	206.8	
—		8.4		206.0
4		9.2		205.2
Ct.		10.6		203.8
4		12.1		202.3
18' East of Ct.		12.9		201.5
—		12.2		202.2
East Line		10.5	203.9	

225' So of

E.L.	9.5	204.9
—	11.2	203.2
4	13.2	201.2
Ct.	13.2	201.2
4	11.8	202.6
—	10.7	203.7
West L	9.9	204.5

250' So of Amherst

W.L.	214.41	12.5	201.9	
—		13.7		200.7
4		14.0		200.4
Ct.		13.6		200.8
4		11.6		202.8
—		9.6		204.8
East Line		7.7	206.7	

275' So of

East L		7.2		207.2
—		8.1		206.3
4		9.7		204.7
Ct.		11.7		202.7
4		13.6		200.8
—		14.2		200.2
W.L.		14.5		299.9

29th 10/21/04 Hutchison 7 + E

57

(300) No Line of Dartmouth

East Line	214.41	7.0	207.4	
—		7.7		206.7
4		8.6		205.8
Ct.		9.3		205.1
4		10.5		203.9
—		11.3		203.1
West Line		13.2		201.2
		8.7	205.7	
		−0.05		

Dale St. 12/27/04

Continued from Book 146.

4.26	225.59	.	221.33
5.63	225.60		219.97

So Line of Dartmouth

W.L.		9.9	215.7
—		9.7	215.9
4		9.5	216.1
Ct.		9.3	216.3
4		8.7	216.9
—		8.7	216.9
E.L.		7.8	217.8

25' So of Dartmouth

East L.		7.4	218.2
—		7.6	218.0
4		7.7	217.9
Ct.		8.0	217.6
4		8.3	217.3
—		8.6	217.0
W.L.		9.0	216.6

Hutchison
Evans
Lewis.

Copied in Record B P.188.

50' So of Dartmouth

W.L.	225.60	7.4	218.2
—		7.0	218.6
4		6.6	219.0
Ct.		6.3	219.3
4		6.1	219.5
—		6.0	219.6
E.L.		6.0	219.6

75' So of

East Line		4.5	221.1
—		4.7	220.9
4		4.8	220.8
Ct.		5.0	220.6
4		5.5	220.1
—		6.0	219.6
W.L.		6.5	219.1

90' South Dartmouth

W.L.	225.60	6.2	219.4
—		5.5	220.1
4		5.0	220.6
Ct.		4.5	221.1
4		4.2	221.4
—		4.0	221.6
E.L.		3.9	221.7

110' South

E.L.		3.4	222.2
—		3.5	222.1
4		3.8	221.8
Ct.		4.2	221.4
4		4.7	220.9
—		5.3	220.3
W.L.		5.9	219.7

130' South

W.L.	225.60	5.8	219.8
—		5.2	220.4
4		4.7	220.9
Ct.		4.3	221.3
4		4.0	221.6
—		3.5	222.1
E.L.		3.2	222.4

150' South

East Line		3.2	222.4
—		3.5	222.1
4		3.8	221.8
Ct.		4.4	221.2
4		5.0	220.6
—		5.4	220.2
W.L.		6.0	219.60

170' Soot Dartmouth

W.L.	225.0	6.2	219.4
—		5.5	220.1
4		5.0	220.6
Ct		4.4	221.2
4		4.2	221.4
—		3.8	221.8
East L.		3.6	222.0

190' Soot

E.L.		4.1	221.5
—		4.4	221.2
4		4.8	220.8
Ct		5.0	220.6
4		5.3	220.3
—		6.0	219.6
W.L.		6.6	219.0

210' Soot

W.L.	7.3	218.3
—	7.0	218.6
4	6.5	219.1
Ct.	6.2	219.4
4	5.9	219.7
—	5.5	220.1
East L	5.0	220.6

225' Soot

East Line	5.6	220.0
—	6.3	219.3
4	6.8	218.8
Ct	7.2	218.4
4	7.4	218.2
—	7.8	217.8
W.L	8.2	217.4

250 So of Dartmouth

West Line	225.60	10.1	215.5
—		9.4	216.2
+		8.8	216.8
Ct.		8.0	217.6
+		7.1	218.5
—		6.6	219.0
East L		6.0	219.6

275' So of

East L		6.2	219.4
—		7.0	218.6
+		8.1	217.5
Ct.		9.1	216.5
+		9.5	216.1
—		10.7	214.9
W.L.		11.7	213.9

300 No Line of Harvard

West Line	225.60	11.9	213.7
—		11.0	214.6
+		9.8	215.8
Ct.		8.8	216.8
+		7.6	219.0
—		6.7	218.9
East Line		5.9	219.7

No Curb Line of Harvard

E.L.		6.0	219.6
—		7.0	218.6
+		7.8	~~217.5~~ 217.8
Ct.		8.8	216.8
+		10.1	215.5
—		10.8	214.8
W.L.		12.0	213.6

Daly

No 1/4 Line of Harvard

W L	225.60	12.2	213.4
—		11,1	214.5
4		10,3	215.3
Ct.		9,1	216.5
4		8,2	217.4
—		7,2	218.4
E L.		6,3	219.3

Center Line of Harvard

E L.		6,6	219.0
—		7,6	218.0
4		8,5	217.1
Ct.		9,4	216.2
4		10,3	215.3
—		11,3	214.3
W L.		12,2	213.4

So 1/4 Line of Harvard

W. L.		12,4	213.2
—		11,5	214.1
4		10,5	215.1
Ct.		9,5	216.1
4		8,6	217.0
—		7,9	217.7
East L.		6,8	218.8

So Curt Line of Harv

E. L.		7,4	218.2
—		8,0	217.6
4		9,0	216.6
Ct.		9,8	215.8
4		10,8	214.8
—		11,6	214.0
W. L.		12,4	213.2

South Line of Howard

West Line	220.60	12,8	212.8
—		11,9	213.7
+		10,9	214.7
Ct.		10,0	215.6
+		9,2	216.4
—		8,7	216.9
East Line		8,0	217.6
1.12	218.74	7.98	217.62

25' South Howard

East L		1,2	217.5
—		2,4	216.3
+		3,2	215.5
Ct		4,0	214.7
+		4,9	213.8
—		5,8	212.9
W.L.		6.6	212.1

50' South How

W.L.	218.74	7,2	211.5
—		6,2	212.5
+		5,4	213.3
Ct.		4,5	214.2
+		3,8	214.9
—		2,8	215.9
East L.		1,9	216.8

75' South

E.L.		2,2	216.5
—		3,2	215.5
+		4,1	214.6
Ct		5,0	213.7
+		6,1	212.6
—		6,9	211.8
W L.		7.6	211.1

100' South Forward

West L.	218.74	8.2	210.5
—		7.1	211.6
+		6.3	212.4
Ct.		5.3	213.4
+		4.3	214.4
—		3.3	215.4
East L.		2.4	216.3

125' South

E.L.		2.2	216.5
—		3.4	215.3
+		4.5	214.2
Ct.		5.3	213.4
+		5.9	212.8
—		6.9	211.8
W.L.		7.7	211.0

150' South Forward

W.L.		7.5	211.2
—		6.7	212.0
+		6.0	212.7
Ct		5.2	213.5
+		4.6	214.1
—		3.8	214.9
East L.		2.6	216.1

175' South

East L.		3.0	215.7
—		4.1	214.6
+		4.9	213.8
Ct.		5.7	213.0
+		6.5	212.2
—		7.0	211.7
West L.		7.6	211.1

200 ~~175~~' South

W.L.	218.74	7.9	210.8
—		7.2	211.5
+		6.6	212.1
Ct.		5.8	212.9
+		5.0	213.7
—		4.5	214.2
East Line		3.5	215.2

225' South Harvard

East L.	4.2	214.5
—	5.1	213.6
+	5.8	212.9
Ct.	6.4	212.3
+	6.9	211.8
—	7.4	211.3
W.L.	7.8	210.9

250' South

W.L.	8.4	210.3
—	7.7	211.3
+	7.1	211.6
Ct.	6.6	212.1
+	6.0	212.7
—	5.3	213.4
E.L.	4.6	214.1

275 South

East L	4.9	213.8
—	5.4	213.3
+	6.1	212.6
Ct.	6.6	212.1
+	7.4	211.3
—	8.1	210.6
W.L.	8.5	210.2

Dale

(300) So Line of Ao Park

W. Line	218.74	9.2	209.5
—		8.5	210.2
4		8.0	210.7
Ct.		7.5	211.2
4		6.5	212.2
—		6.0	212.7
East Line		5.3	213.4
		9.10	209.64

Grove St.

Bet. Harvard + So Line of So. Park.

210	237.45		235.35

So Line of Harvard.

West L.		6.4	231.1
—		7.2	230.3
4		7.7	229.8
Ct		8.0	229.5
4		8.0	229.5
—		8.1	229.4
East Line		8.5	229.0

25' So of Harvard

E L		9.1	228.4
—		9.1	228.4
4		9.0	228.5
Ct.		8.7	228.8
4		8.5	229.0
—		7.9	229.6
West Line		7.1	230.4

1/2/05 Hutchison Surveying Running

50' So of

West L.	237.45	7.4	230.1
—		8.1	229.4
4		8.7	228.8
Ct.		9.1	228.4
4		9.3	228.2
—		9.5	228.0
E.L.		9.7	227.8

75' So of

E.L.		10.3	227.2
—		10.2	227.3
4		10.1	227.4
Ct		10.0	227.5
4		9.5	228.0
—		9.0	228.5
W.L.		8.2	229.3

100' Foot Haward

W.L.	237.45	8.2	229.3
—		8.9	228.6
4		10.0	227.5
Ct.		10.4	227.1
4		10.8	226.7
—		11.1	226.4
E.L.		11.1	226.4

125' Foot

E.L.		11.8	225.8
—		11.8	225.7
4		11.4	226.1
Ct.		11.0	226.5
4		10.2	227.3
—		9.2	228.3
W.L.		8.5	229.0

150' Foot

W.L.	237.45	8.5	229.0
—		9.7	227.8
4		10.5	227.0
Ct.		11.5	226.0
4		12.2	225.3
—		12.7	224.8
East L.		12.9	224.6
	5.11	230.13	12.43	225.02

175' Foot

East L.		7.3	222.8
—		6.3	223.8
4		5.8	224.3
Ct.		4.8	224.3
4		3.6	226.5
—		2.8	227.3
W.L.		1.5	228.6

200' So of Harvard

West Line	230.13	2.1	228.0
—		3.5	226.6
+		4.2	225.9
Ct.		5.6	224.5
+		6.2	223.9
—		7.2	222.9
East L.		8.5	221.6

225' So of

E L.		9.2	220.9
—		7.9	222.2
+		6.9	223.2
Ct.		6.4	223.7
+		5.2	224.9
—		4.1	226.0
W.L.		3.0	227.1

250' So of

W.L.	230.13	4.0	226.1
—		4.8	225.3
+		6.0	224.1
Ct		7.3	222.8
+		7.8	222.3
—		8.7	221.4
E.L.		9.7	220.4

275' So of

E.L.		11.4	218.7
—		9.6	220.5
+		8.7	221.4
Ct.		8.3	221.8
+		7.0	223.1
—		5.7	224.4
W.L.		4.3	225.8

(300') So Line of So Park

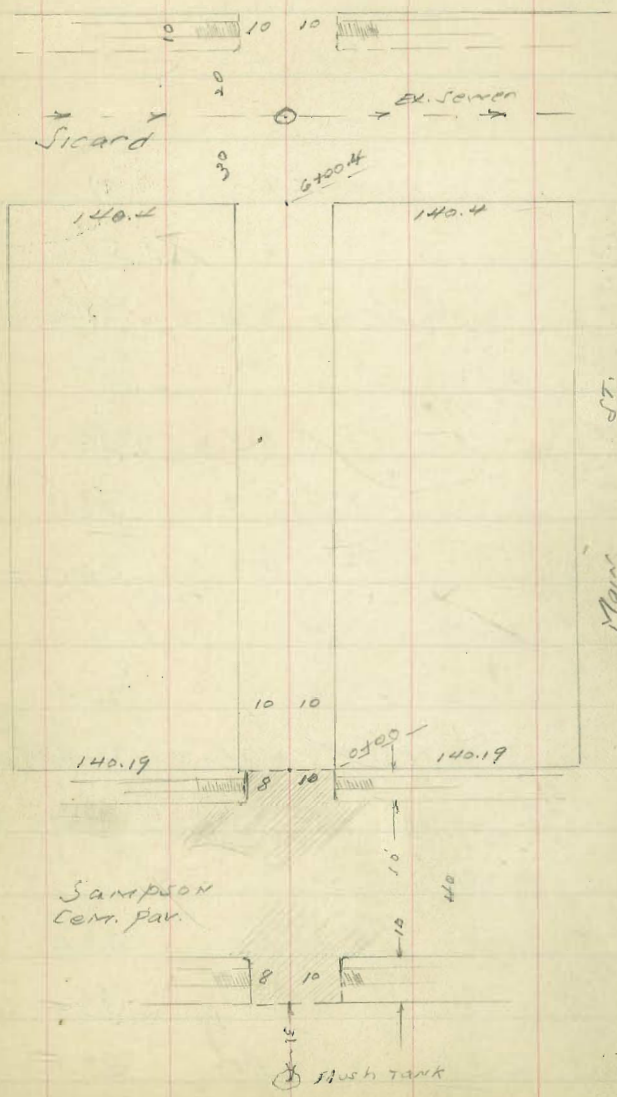
West Line	230.13	4,7	225,4
—		6,1	224.0
4		7,4	222,7
Ct.		8,8	221,3
4		10,1	219.0
—		11,2	218.9
East Line		12,9	217.2
1.95	230.25	1.83	228.30
		9,68	220.57

Xsec alley 20' wide
Blk 98 S.D.L.&T.Co. add.
Sampson to Sicard
Bet. Main & Newton

Moore
11/24/27

K.M.B.P.	8.23	38.22	29.99	Main Sampson
R.M. F.T.M.H. Sampson	31' W of W.L.	4.36	33.86	
E.L. Sampson = 0.0				
S c.b. alley		4.75	33.47	
S par.		4.75	33.47	
C "		4.83	33.39	
+ 0.8 "		4.47	33.75	
+ 0.8 top curb		4.47	33.75	
N ground		4.5	33.7	
	0 + 50			
N		5.6	32.6	
C		5.8	32.4	
S		6.3	31.9	
	1 + 00			
S		6.8	31.4	

Sewer levels for Mr Rhodes



38.22

	3+00				
N			6.1	32.1	
C			6.2	32.0	
S			6.0	32.2	
T.P.	5.14	36.02	7.34	30.88	
	3+30				
-4			3.9	32.1	
S			5.8	30.2	
C			6.0	30.0	
N			5.9	30.1	
+10	℄ double gar. 20' wide		5.4	30.6	floor dirt level
	3+50				
N			6.1	29.9	
C			6.3	29.7	
S			6.1	29.9	
+2			4.6	31.4	

38.22

C			6.9	31.3	
N			6.6	31.6	
	1+50				
N			6.3	31.9	
C			6.6	31.6	
S			6.6	31.6	
	2+00				
S			5.9	32.3	
C			5.9	32.3	
N			5.2	33.0	
	2+50				
N			4.6	33.6	
C			4.8	33.4	
S			5.0	33.2	
	2+75				
S			5.2	33.0	
C			5.2	33.0	
N			5.1	33.1	

4+00

N	4.1	31.9
S	6.0	30.0
C	6.4	29.6
N	6.1	29.9

4+50

N	5.8	30.2
C	6.1	29.9
S	6.5	29.5
+4	5.6	30.4

5+00

S	6.0	30.0
C	5.6	30.4
N	5.6	30.4

5+50

N	5.0	31.0
C	5.2	30.8
S	5.4	30.6

5+75

S	4.8	31.2
C	4.7	31.3
N	4.7	31.3

6+00.4 = wt Sicard

N	4.8	31.2
C	4.8	31.2
S	5.1	30.9

℄ Sicard

S.S.T. H. Rim	4.90	31.12	
" " F.L.	11.50	24.52	
S cb return on alley	4.50	31.50	E curb line of Sicard
N " " " "	4.02	31.98	
S.W. cb. Sicard Newton	1.10	34.92	
N.W. " Sicard Main	7.43	28.59	
SEBP Main + Sicard	8.50	27.50	27.48 / 0.02

1-20-22 Sewer Const
alley Blk 98 SDL + T Co.

		Prop. Grade	True Grade
0+00	℄ Sicard	24.77	
2+80	D.E.	26.31	26.20
3+30	M.H.		26.47
3+50			26.58
4+00			26.86
4+50			27.13
5+00			27.41
5+31			27.58

29.99 NW BP
7.78 N.G.
37.77

36.97 SW BP
2.00
38.97

Mark Sampson

Newton Sampson

74

26.20	26.47	26.58	26.86
12.77	12.50	12.39	12.11
	6.88	6.00	6.00
	C 5.62	C 6.39	C 6.11

27.13	27.41	27.58
11.84	11.56	11.39
6.73	7.50	7.43
C 5.11	C 4.06	C 3.96

Return to City Engineer's Office

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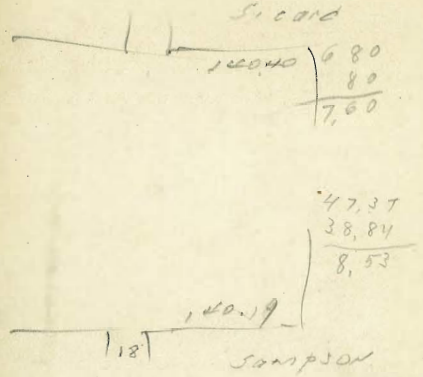

Return to City Engineers Office
City Hall, San Diego, Cal.

Return to City Engineers Office
City Hall, San Diego, Cal.

TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Degrees	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60 53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

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