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F.B. 135

135

TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Return to City Engineers Office
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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	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	76.88	63.94	50
40	76.60	[illegible]	76.32	64.61	[illegible]	[illegible]	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	[illegible]	67.56	73.43	67.88	47
43	73.14	68.20	[illegible]	68.52	[illegible]	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.		

MICROFILMED
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135
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Book no 135

date

name.

10/23/01 Cross Section of F St. from 8th to

{Ramsey
{William
{Kerr

B.M. on Hydrant Nozzle S.W. Cor. F and 9th

	+	−	⊖	
B.M.	1.46		51.72	50.26

East line 8th St.

S. line	6.96	44.76
Curb	7.20	44.52
1/4	7.30	44.42
C.	7.04	44.68
1/4	7.25	44.47
Gutter	7.50	44.22
Curb	6.71	45.01
N. line	6.45	45.27

5 ft E. of E line 8th

N. line	6.46	45.26
Curb	6.60	45.12
Gutter	7.42	44.30
1/4	6.80	44.92
C	6.60	45.12
1/4	7.10	44.62

50.26
1.46
51.72

2

Gutter	7.31	44.41
Curb	7.07	44.65
S. line	6.96	44.76

50 ft E. of E line 8th

S. line	5.73	45.99
Curb	6.11	45.61
Gutter	6.40	45.32
1/4	6.25	45.47
C	6.53	45.19
1/4	6.10	45.62
Gutter	6.20	45.52
Curb	5.45	46.27
N. line	5.47	46.25

100' E. of E line 8th

N. line	3.98	47.74
Curb	4.25	47.47
Gutter	5.00	46.72
1/4	4.53	47.19

C	4.14	47.58
¼	4.86	46.86
Gutter	5.25	46.47
Curb	4.97	46.75
S. line	4.53	47.19
158 E. of E line 8th		
S. line	3.5	48.22
Curb	3.82	47.90
Gutter	4.10	47.62
¼	3.70	48.02
C.	2.97	48.75
¼	3.25	48.47
Gutter	3.75	48.07
Curb	2.97	48.75
N. line	2.64	49.08
West line 9th St.		
N. line	1.47	50.25
Curb	1.77	49.95
Gutter	2.50	49.22

¼	2.10	49.62
C	1.92	49.80
¼	2.63	49.09
Gutter	2.85	48.87
Curb	2.70	49.02
S line	2.50	49.22
Curb West side 9th		
S. line	3.27	.45
Curb	2.90	48.82
¼	2.10	49.62
C	1.62	50.10
¼	1.75	49.97
Curb	2.13	49.59
N. line	2.00	49.72
Center 9th St.		
N. line	0.80	50.92
Curb	1.04	50.68
¼	1.04	50.68
C	1.20	50.52

¼	1.20	50.52
Curb	1.50	50.22
S. line	1.90	49.82
	51' E. of N. line 9th	
N. line	0.80	50.92
Curb	0.80	50.92
¼	0.90	50.82
Center	1.10	50.62
¼	1.10	50.62
Curb	1.25	50.47
S. line	1.67	50.05
	Curb, E. side 9th	
S. line	1.90	49.82
Curb	1.24	49.48
¼	2.04	49.68
Center	1.88	49.84
¼	1.87	49.85
Curb	1.85	49.87
N. line	1.46	50.26

	E. line 9th St.	
N. line	0.90	50.82
Curb	1.17	50.55
Gutter	1.57	50.15
¼	0.94	50.78
Center	0.96	50.76
¼	1.04	50.68
Gutter	1.60	50.12
Curb	1.17	50.55
S. line	0.90	50.82
	50' S of E. line 9th	
S. line	0.53	51.19
Curb	0.83	50.89
Gutter	1.13	50.59
¼	0.70	51.02
Center	0.33	51.39
¼	0.76	50.96
Gutter	0.90	50.82
Curb	0.53	51.19

(51.72)

N. line		0.24		51.48
T. P.	+6.26	-0.89	57.09	50.83

100' E. of E. line 9th

S. line	5.52	51.57
Curb	5.74	51.35
Gutter	5.87	51.22
¼	5.43	51.66
C	5.04	52.05
¼	5.57	51.52
Gutter	5.73	51.36
Curb	5.35	51.74
N. line	5.00	52.09

150' E. of E. line 9th

N. line	4.37	52.72
Curb	4.74	52.35
Gutter	5.25	51.84
¼	5.05	52.04
C	5.68	51.41
¼	5.37	51.72

51.72
0.89
50.83
6.26
57.09

Gutter	5.87	51.22
Curb	5.50	51.59
S. line	5.24	51.85

West line 10th Av.

S. line	4.87	52.22
Curb	5.10	51.99
Gutter	5.43	51.66
¼	5.96	51.13
Curb	4.35	52.74
¼	4.47	52.62
Gutter	4.35	52.74
Curb	4.05	53.04
N. line	3.80	53.29

Curb, West side 10th

N. line	4.10	52.99
Curb	4.37	52.72
¼	4.40	52.69
C	4.32	52.77
¼	4.76	52.33

Curb	5.80	51.29
S. line	5.90	51.19
	Center 102th St.	
N. line	3.53	53,56
Curb	3.71	53.38
¼	3.70	53.39
C	4.25	52.84
¼	4.25	52.74
Curb	4.90	52.19
S. line	5.10	51.99
	55' E. of N. line 102th	
N. line	2.95	53,14
Curb	3.77	53.32
¼	3.87	53.28
C	4.10	53,99
¼	4.47	52.62
Curb	4.85	52.24
S. line	5.17	51.92

	Curb E. side 102th	
S. line	5.90	51.19
Curb	5.67	51.42
¼	5.48	51.61
C	5.30	51.79
¼	5.00	52.09
Curb	4.88	52.21
N. line	4.60	52.49
	E. line 102th	
N. line	3.80	53.29
Curb	4.11	52.98
¼	4.03	53.06
C	4.23	52,86
¼	4.65	52,44
Curb	5.05	52,04
S. line	4.80	52.29
	50 E. of E. line 102th	
S. line	4.37	52.72
Curb	4.45	52.64
Gutter	4.81	52,29

¼	4.07	52.72
C	3.73	53.36
¼	3.67	53.42
Gutter	3.92	53.17
Curb	3.47	53.62
N. line	3.23	53.86
	100' E. of E. line 10th	
N. line	2.88	54.21
Curb	2.89	54.20
Gutter	3.36	53.73
¼	3.30	53.79
C	3.20	53.89
¼	3.90	53.19
Gutter	4.30	52.79
Curb	3.83	53.26
S. line	3.73	53.36
	150' E. of E. line 10th	
S. line	3.33	53.76
Curb	3.23	53.86

Gutter	3.63	53.46
¼	3.25	53.84
C	2.65	54.44
¼	2.67	54.42
Gutter	2.90	54.18
Curb	2.25	54.84
N. line	1.90	55.19
	N. line 11th St.	
N. line	1.27	55.82
Curb	1.57	55.52
Gutter	2.40	54.69
¼	2.05	55.04
C	2.02	55.07
¼	2.50	54.59
Gutter	3.00	54.09
Curb	2.57	54.52
S. line	2.30	54.79
	Curb, 99' S. of 11th	
S. line	3.00	54.09

			57.09	
Curb		3.24		53,85
1/4		2.50		54,59
C		2.04		55,05
1/4		2.00		55,09
Curb		2.22		54.87
N. line		2.00		55,09
	Center 11th St.			
N. line		0.95		56.14
Curb		1.50		55,59
1/4		1.30		55.79
C		1.45		55.64
1/4		1.80		55.29
Curb		2.17		54.92
S. line		2.35		54.74
	Curb, E. Side 11th			
S. line		2.27		54,82
Curb		2.10		54.99
1/4		1.33		55.76
C		0.90		56.19

				61.91
				3.33
				58.58 Nozzle Hyd.
				N.E. 11th & Fl. chk
1/4		0.87		56,22
Curb		1.13		55,96
N. line		0.80		56.29
T. P.	+5.55	-0.73	61.91	56.36
	E. line 11th St.			
N. line		4.57		57,34
Curb		4.90		57,01
Gutter		5.53		56,38
1/4		5.30		56,61
C		5.13		56.78
1/4		5.76		56.15
Gutter		6.55		55.36
Curb		6.37		55.54
S. line		6.05		55.86
	50' E. of E. line 11th St.			
S. line		5,37		56.54
Curb		5.53		56.38
Gutter		5.80		56.11
1/4		4.70		57.21

57.09
0.73
56.36
5.55
61.91

C	4.10	57.81
¼	4.30	57.61
Gutter	4.45	57.46
Curb	4.23	57.68
N. line	3.70	58.21
100' E. of E. line 11th		
N. line	3.20	58.71
Curb	3.60	58.31
Gutter	4.20	57.71
¼	3.67	58.24
C	3.75	58.16
¼	4.40	57.51
Gutter	5.35	56.56
Curb	4.67	57.24
S. line	4.43	57.48
150 E. of E. line 11th		
S. line	3.54	58.37
Curb	3.80	58.11
Gutter	4.31	57.54

¼	3.84	58.07
C	3.17	58.74
¼	3.35	58.56
Gutter	3.62	58.29
Curb	2.94	58.97
N. line	2.57	59.34
N. line 12th St.		
N. line	2.15	59.76
Curb	2.35	59.56
Gutter	2.75	59.16
¼	2.57	59.34
C	2.45	59.46
¼	3.03	58.88
Gutter	3.23	58.68
Curb	2.90	59.01
S. line	2.67	59.24
Curb N. side 12th		
S. line	3.32	58.59
Curb	3.25	58.66

¼	2.65	59.26
C	2.30	59.61
¼	2.46	59.45
Curb	2.90	59.01
N. line	2.65	59.26
	Center 12th St.	
N. line	1.90	60.01
Curb	2.04	59.87
¼	1.77	60.14
C	2.04	59.87
¼	2.00	59.91
Curb	2.30	59.61
S. line	2.40	59.51
	Curb, E. side, 12th	
S. line	2.75	59.16
Curb	2.52	59.39
¼	1.80	60.11
C	1.67	60.24
¼	1.90	60.01

			61.91	
Curb		2.13		59.78
N. line		1.70		60.21
		E. line 12th St.		
N. line		1.76		60.15
Curb		2.05		59.86
¼		1.90		60.01
C		1.60		60.31
¼		1.90		60.01
Curb		2.35		59.56
S. line		2.50		59.41
T.P.	+3.46	-2.69	62.68	59.22
		50' E. of E. line 12th		
S. line		2.33		60.35
Curb		2.87		59.81
¼		2.64		60.04
C		2.15		60.53
¼		2.53		60.15
Curb		2.93		59.75
N. line		2.12		60.56

	100' E of E line 12th		61.91 2.69 59.22 3.46 62.68
S. line	2.36	60.32	
Curb	2.71	59.97	
¼	2.40	60.28	
C	1.87	60.81	
¼	2.23	60.45	
Curb	28.4 24.5	59.84 60.23	
2'	2.00	60.68	
N. line	1.54	61.14	
	150' E. of E. line 12th		
N. line	1.80	60.88	
2	1.96	60.72	
Curb	2.76	59.92	
¼	2.02	60.66	
C	1.75	60.93	
¼	2.16	60.52	
Curb	2.46	60.22	
S. line	2.46	60.22	

165' E. of E. line 12th

S. line	2.43	60.25
Curb	2.60	60.08
¼	2.33	60.35
C	1.84	60.84
¼	2.37	60.31
Curb	3.08	59.60
4'	2.23	60.45
N. lin	0.97	61.71

W. line 13th St.

N. line	0.50	62.18
3'	0.37	62.31
4'	4.90	57.78
Curb	5.73	56.95
¼	5.70	56.98
C	5.50	57.18
¼	5.60	57.08
Curb	5.63	57.05
S. line	5.22	57.46

Curb, N. side 13th

S. line	6.30	56.38
Curb	6.37	56.31
¼	6.00	56.68
C	5.82	56.86
¼	5.95	56.73
Curb	6.30	56.38
N. line	6.07	56.61

Center 13th St.

N. line	6.15	56.53
Curb	6.43	56.25
¼	6.20	56.48
C	6.23	56.45
¼	6.25	56.43
Curb	6.25	56.43
S. line	6.10	56.58

Curb, S. side 13th

S. line	6.90	55.78
Curb	7.10	55.58

¼	6.67	56.01
C	6.63	56.05
¼	6.80	55.88
Curb	7.10	55.58
N. line	6.96	55.72
	E line 13th	
N. line	6.37	56.31
Curb	6.50	56.18
20'	7.07	55.61
¼	6.93	55.75
C	6.58	56.10
¼	6.70	55.98
Curb	7.00	55.68
S. line	6.27	56.41
	40' E. of E line 13th	
S. line	5.13	57.55
Curb	6.40	56.28
¼	5.87	56.81
C	5.60	57.08

¼	6.26	56.42
2'	7.05	55.63
Curb	5.90	56.78
N line	5.70	56.98
	50' E of E line 13th	
N line	5.77	56.91
Curb	6.22	56.46
2'	7.00	55.68
¼	6.37	56.31
C	5.73	56.95
¼	5.87	56.81
Curb	6.22	56.46
S. line	5.20	57.48
	100' E. of E. line 13th	
S line	7.53	55.15
Curb	8.15	54.53
¼	8.00	54.68
C	7.84	54.84
¼	7.84	54.84

			62.68	
Curb		8.70		53.98
N. line		8.27		55.41
T. P.	+2.03	-9.84	54.87	52.84
	150' E. of E. line 13th			
S. line		2.43		52.44
11'		2.80		52.07
Curb		3.55		51.32
1/4		2.73		52.14
C		2.58		52.29
1/4		2.50		52.37
Curb		2.90		51.97
3'		2.73		52.14
N. line		3.80		51.07
	W. line 14th			
N. line		4.95		49.92
Curb		5.53		49.34
1/4		5.04		49.83
C		4.80		50.07
1/4		5.04		49.83

54.87
3.36
Chk 51.51

62.68
9.84
52.84
2.03
54.87

Curb	5.20	49.67
S. line	4.60	50.27
	Curb, N. side 14th	
S. line	5.40	49.47
Curb	5.60	49.27
1/4	5.28	49.59
C	5.15	49.72
1/4	5.25	49.62
Curb	5.91	48.96
N. line	5.46	49.41
	Center 14th St.	
N. line	5.30	49.57
Curb	6.05	48.82
1/4	5.50	49.37
C	5.60	49.27
1/4	5.85	49.02
Curb	5.65	49.22
S. line	5.90	48.97

Curb, E. Side 14th

S. line		7.30		47.57
Curb		7.20		47.67
1/4		6.53		48.34
C		5.96		48.91
1/4		6.00		48.87
Curb		6.75		48.12
N. line		5.80		49.07
	E. line 14th St.			
N. line		6.40		48.47
Curb		7.13		47.74
1/4		6.80		48.07
C		6.60		48.27
1/4		7.07		47.80
2'		7.87		47.00
Curb		7.40		47.47
S. line		6.74		48.13
T. P.	1.55	-9.23	47.19	45.64
	50' E of E. line 14th			
S. line		1.70		45.49

54.87
9.23
45.64
1.55
47.19

2'		2.04		45.15
Curb		2.50		44.69
1/4		2.05		45.14
C		1.83		45.36
1/4		2.16		45.03
Curb		2.70		44.49
N. line		1.70		45.49
	100' E. of E. line 14th			
N. line		4.38		42.81
Curb		4.78		42.41
1/4		4.30		42.89
C		3.87		43.32
1/4		4.20		42.99
Curb		4.52		42.67
S. line		3.47		43.72
	150' E. of E. line 14th			
13'		8.9		38.29
9'		8.6		38.59
Dr. of Slope				
S. line		5.25		41.94

Curb	6.10	41.09
¼	5.65	41.54
C	5.47	41.72
¼	5.85	41.34
Curb	6.20	40.99
3'	5.53	41.66
N. line	5.16	42.03
175' E of E. line 14th		
20'	9.10 / 5.00	38.09 / 47.19
3' top of Slope	8.70 / 4.98	38.49 / 47.19
N. line	7.30	39.89
4'	6.13	41.06
Curb	6.57	40.62
¼	6.40	40.79
C	6.10	41.09
¼	6.17	41.02
Curb	6.60	40.59
N. line	5.96	41.23
7' top of Slope	8.7	38.49

47.19
7.15
40.04
3.95
43.99

20'	9.3	37.89
200' E of E. line 14th		
9' top of Slope	10.8	36.39
N. line	6.75	40.24
Curb	7.30	39.89
¼	6.80	40.39
C	6.60	40.59
¼	7.00	40.19
Curb	7.20	39.99
3'	6.60	40.59
4'	6.40	40.79
N. line	7.70	39.49
4' top of Slope	9.00	38.19
20'	9.15	38.04
T.P. +3.95 −7.15	43.99	40.04
250' E of E. line 14th		
20'	7.10	36.89
2' top of Slope	6.30	37.69
N. line	5.70	38.29

43.99

10'	4.17	39.82
Curb	4.60	39.39
4'	4.90	39.09
¼	4.87	39.12
C	4.53	39.46
¼	4.60	39.39
Curb	4.63	39.36
S. line	{4.73 Rock {7.40 Bank	39.26 36.59
20'	9.30	34.69

300' E. of E. line 14th

S. line	{4.97 {9.70 Rock Bank	39.02 34.29
Curb	4.85	39.14
4'	5.25	38.74
¼	4.82	39.17
C	4.90	39.09
¼	5.05	38.94
Curb	5.00	38.99
4'	4.33	39.66
5'	4.15	39.84
N. line	5.2	38.79

20'	6.85	37.14

350' E. of E. line 14th

N. line	3.80	40.19
10'	4.20	39.79
Curb	5.20	38.79
¼	5.07	38.92
C	4.90	39.09
¼	4.92	39.07
Curb	5.10	38.89
S. line	{5.20 Rock bank {8.00	38.79 35.99

Ft. line 15th St.

20'	12.00	31.99
13' toe of slope	11.20	32.79
S. line	5.90	38.09
3'	4.80	39.19
Curb	3.80	40.19
¼	3.90	40.09
C	4.00	39.99
¼	4.20	39.79

43.99

Curb		4.10		39.89
5'		3.55		40.44
N. line		4.10		39.89
	Curb, N. Side 15th			
N. line		3.55		40.44
Curb		3.33		40.66
¼		3.34		40.65
C		3.50		40.49
¼		3.45		40.54
Curb		3.20		40.79
3'		3.60		40.39
S. line		4.80		39.19
13'		10.50		33.49
20'		11.40		32.59
T.P.	+6.32	−3.57	46.74	40.42
	23' E of N. line 15th (N. Side Bridge)			
S. line		7.6		39.14
4'		6.25		40.49
Curb		6.24		40.48

43.99
3.57
40.42
6.32
46.74

¼		6.30	46.74	40.34
C		6.05		40.69
¼		6.30		40.44
Curb		6.30		40.44
N. line		6.30		40.44
	55' E of N. line 15th (E. Side - bridge			
N. line		6.23		40.51
Curb		6.10		40.64
¼		6.20		40.54
C		6.20		40.54
¼		6.35		40.39
Curb		6.45		40.39
3'		6.90		39.84
S. line		8.50		38.24
	Curb, E. Side 15th			
S. line		7.20		39.54
Curb		6.30		40.44
¼		6.13		40.61
C		6.25		40.49

¼	6.10	46.74	40.64
Curb	6.05		40.69
N. line	5.85		40.89
	E. line 15th St.		
N. line	5.73		41.01
Curb	5.70		41.04
¼	5.90		40.84
C	6.05		40.69
¼	5.93		40.81
Curb	6.20		40.54
N. line	6.55		40.19
	50' E of E. line 15th		
S. line	4.45		42.29
Curb	4.30		42.44
¼	4.10		42.64
C	4.40		42.34
¼	4.40		42.34
Curb	4.62		42.12
N. line	4.23		42.51

46.74

	100' E. of E. line 15th		
N. line	1.55		45.19
Curb	1.80		44.94
3'	2.50		44.24
¼	2.07		44.67
C	2.10		44.64
¼	2.00		44.74
Curb	2.40		44.34
S. line	2.43		44.31
T.P.	+10.54 −0.93	56.35	45.81
	150' E of E. line 15th		
S. line	9.30		47.05
5'	8.70		47.65
Curb	9.12		47.23
6'	9.47		46.88
¼	9.00		47.35
C	8.88		47.47
¼	8.78		47.57
Curb	9.40		46.95
4'	8.40		47.95

46.74 − 0.93 = 45.81
10.54
56.35

56.35

N. line	8.15	48.20
172' E. of E. line 15th		
N. line	7.04	49.31
3'	7.00	49.35
Curb	7.57	48.78
¼	7.45	48.90
C	7.60	48.75
¼	8.05	48.30
Curb	8.44	47.91
11	6.90	49.45
S. line	6.25	50.10
W. line 16th St.		
S. line	6.53	49.82
Curb	6.85	49.50
¼	6.55	49.80
C	5.67	50.68
¼	5.65	50.70
Curb	6.30	50.05
N. line	5.80	50.55

Curb, N. side 16th.

N. line	5.20	56.35	51.15
Curb	5.40		50.95
¼	5.00		51.35
C	5.00		51.35
¼	5.45		50.90
Curb	6.43		49.92
S. line	6.50		49.85
Center 16th St.			
S. line	4.83		51.52
Curb	4.30		52.05
¼	3.75		52.60
C	3.60		52.75
¼	3.25		53.10
Curb	3.30		53.05
N. line	3.43		52.92
Curb E. side 16th			
N. line	2.20		54.15
Curb	1.78		54.57
¼	1.98		54.37

10/21/21

39

			56.35	
C		2.40	56.35	53.95
¼		2.25		54.10
Curb		3.35		53.00
S. line		4.05		52.30
	E. line	16th		
S. line		2.80		53.55
7'		3.17		53.18
Curb		2.30		54.05
¼		1.75		54.60
C		1.54		54.81
¼		1.33		55.02
Curb		1.34		55.01
7'		1.47		54.88
N. line		1.00		55.35
T. P.	+10.46	−0.23	66.58	56.12
	25' E. of E. line 16th			
N. line		7.80		58.78
3'		8.80		57.78
Curb		9.40		57.18

40

				56.35
				10.23
				56.12
				10.46
				66.58
¼		9.55	66.58	57.03
C		10.04		56.54
¼		10.04		56.54
Curb		10.74		55.84
4'		10.88		55.70
S. line		9.18		57.40
	50' E. of S. line 16th			
S. line		5.95		60.63
4'		7.55		59.03
Curb		7.60		58.98
		8.25		58.33
¼		7.53		59.05
C		7.20		59.38
¼		6.70		59.88
Curb		6.60		59.98
2'		6.00		60.58
4'		6.20		60.38
N. line		5.10		61.48

75' E. of E. line 16th

N. line		1.60	66.58	64.98
3'		2.70		63.88
B		3.07		63.51
Curb		3.80		62.78
1/4		3.45		63.13
C		3.57		63.01
1/4		4.60		61.98
Curb		4.80		61.78
4'		4.00		62.58
S. line		2.60		63.98
T. P.	+11.81	-0.64	77.75	65.94

100' E. of E. line 16th

S. line		10.00		67.75
4'		11.40		66.35
Curb		12.10		65.65
1/4		12.00		65.75
C		11.30		66.45
1/4		11.43		66.32
Curb		11.00		66.75

66.58
0.64
65.94
11.81
77.75

4'	10.10	77.75	67.65
N. line	8.50		69.25

125' E. of E. line 16th

N. line	4.90		72.85
7'	7.40		70.35
B'	7.60		70.15
Curb	8.31		69.44
1/4	8.78		68.97
C	8.75		69.00
1/4	9.30		68.45
Curb	9.15 8.25		68.60 69.50
S. line	7.55		70.20

150' E. of E. line 16th

S. line	4.20		73.55
1'	5.30		72.45
Curb	6.10		71.65
1/4	6.10		71.65
C	6.15		71.60
1/4	6.15		71.60

Curb		5.70	77.75	72.05
2'		3.90		73.85
4'		3.43		74.32
N. line		2.00		75.75
T. P.	+6.44	−0.94	~~0~~ 83.25 83.25	76.81

175' E. of E. line 16th

N. line		5.00		78.25
4'		6.20		77.05
3'		6.80		76.45
Curb		8.10		75.15
¼		8.70		74.55
C		8.70		74.55
¼		9.15		74.10
Curb		9.00		74.25
1'		7.85		75.40
3'		7.44		75.81
S. line		6.40		76.85

77.75
.94
74.81
6.44
83.25

W. line 17th St.

S. line		4.00	83.25	79.25
4'		5.00		78.25
2'		5.30		77.95
Curb		6.70		76.55
¼		6.90		76.35
C		6.60		76.65
¼		6.50		76.75
Curb		6.55		76.70
3'		4.85		78.40
3'		4.40		78.85
N. line		3.10		80.15

Curb, W. side 17th

N. line		2.10		81.15
4'		3.50		79.75
3'		3.90		79.35
Curb		5.00		78.25
¼		5.53		77.72
C		5.63		77.62
¼		5.80		77.45

Curb	5.63	83.25	77.62
2	4.80		78.45
3'	4.23		79.02
S. line	3.63		79.62
Center 17th St.			
S. line	3.73		79.52
Curb	3.70		79.55
¼	4.00		79.25
C	4.60		78.65
¼	4.20		79.05
Curb	3.65		79.60
3'	2.75		80.50
7'	2.50		80.75
N. line	1.15		82.10
Curb, E. side 17th			
N. line	0.80		82.45
Curb	3.20		80.05
¼	3.57		79.68
C	3.87		79.38

¼	3.57	83.25	79.68
Curb	3.70		79.55
S. line	3.70		79.55
E. line 17th St.			
S. line	4.45		78.80
Curb	4.25		79.00
¼	3.80		79.45
C	4.10		79.15
¼	3.93		79.32
Curb	4.00		79.25
2'	3.61		79.64
3'	2.90		80.35
6'	2.60		80.65
N. line	1.20		82.05
50 E. of E. line 17th			
N. line	5.15		78.10
5'	5.83		77.42
4'	6.00		77.25
Curb	7.30		75.95

¼		6.94	83.25	77.31
C		7.15		76.10
¼		7.57		75.68
Curb		8.15		75.10
		7.73		75.52
5'		8.00		75.25
S. line		8.95		74.30
6' toe of slope		11.65		71.60
10'		12.4		70.85
T.P.	+3.11	-11.55	74.81	71.70
			74.81	
	100' E. of E. line 17th			
20'		9.8		65.01
5' toe slope		7.3		67.51
S. line		4.70		70.11
2'		3.70		71.11
1'		3.55		71.26
Curb		4.20		70.61
¼		2.75		72.06
C		2.40		72.41
¼		1.90		72.91

-0 83.25
71.55
71.70
3.11
-0 74.81
11.80
63.01
9.32
-0 72.33

Curb		2.00	74.81	72.81
2'		1.31		73.50
4'		1.25		73.56
N. line		0.40		74.41
	+50' E. of E. line 17th			
N. line		4.35		70.46
4'		5.10		69.71
3'		5.30		69.51
Curb		6.15		68.66
¼		6.25		68.56
C		6.60		68.71
¼		7.05		67.76
Curb		8.40		66.41
1'		7.83		66.98
1'		8.00		66.81
S. line		8.20		66.61
6' toe slope		11.40		63.41
20		13.20		61.61
T.P.	+9.32	-11.80	72.33	63.01

N. line 18th St.

20'	13.90	72.33	60.43
S. line	10.65		61.68
Curb	10.00		62.33
¼	8.85		63.48
C	7.77		64.56
¼	7.70		64.63
Curb	7.20		65.13
N. line	6.44		65.89

Curb, N. side 18th

N. line	6.73		67.60
Curb	7.60		64.73
¼	8.30		64.03
C	8.40		63.93
¼	9.40		62.93
Curb	10.40		61.93
S. line	11.00		61.33
20'	11.00		61.33

Center 18th St.

20'	14.0		58.33

5'	13.0	72.33	59.33
S. line	10.1		62.23
Curb	9.27		63.06
¼	8.80		63.53
C	8.47		63.86
¼	8.27		64.06
Curb	8.00		64.33
N. line	7.45		64.88

Curb S. side 18th

N. line	8.60		63.73
Curb	8.60		63.73
¼	8.57		63.76
C	8.80		63.53
¼	9.20		63.13
Curb	9.55		62.78
S. line	9.80		62.53
7'	12.70		59.63
2.0	13.40		58.93

E. line 18th St.

20'	13.30	72.33	59.03
6'	12.60		59.73
S. line	10.00		62.33
Curb	9.55		62.78
1/4	8.70		63.63
C	8.44		63.89
1/4	8.35		63.98
Curb	8.50		63.83
3'	8.15		64.18
N. line	8.70		63.63

50' E. of E. line 18th

N. line	6.50		65.83
4	5.50		66.83
1'	5.55		66.78
Curb	5.85		66.48
1/4	5.60		66.73
C	6.00		66.33
1/4	6.35		65.98
Curb	7.55		64.78

72.33
0.15
72.18
10.85
83.03

10'		7.00	72.33	65.33
2'		7.15		65.18
S. line		8.20		64.13
6'		10.00		62.33
20'		10.90		61.43

100' E. of E. line 18th

20'		6.30		66.03
5'		5.53		66.80
S. line		3.40		68.93
2'		2.90		69.43
Curb		3.80		68.53
1/4		2.70		69.63
C		2.45		69.88
1/4		2.20		70.13
Curb		2.50		69.83
4'		2.30		70.03
N. line		3.60		68.73
T. P.	+10.85	−0.15	83.03	72.18

150' E of E. line 18th

N. line	9.70	83.03	73.33
Curb	9.70		73.33
¼	9.40		73.63
C	9.44		73.59
¼	9.55		73.48
Curb	10.30		72.73
4'	9.70		73.33
2'	9.90		73.13
S. line	10.30		72.73

N. line 19th St.

S. line	5.70		77.33
Curb	6.00		77.03
¼	5.85		77.18
C	5.70		77.33
¼	5.90		77.13
Curb	6.50		76.53
N. line	6.44		76.59

Curb, N. side 19th

N. line	5.75		77.28

Curb	5.64	83.03	77.39
¼	4.80		78.23
C	4.80		78.23
¼	4.50		78.53
Curb	5.10		77.93
S. line	4.85		78.18

Center 19th St.

S. line	2.57		80.46
Curb	2.60		80.43
¼	2.60		80.43
C	3.00		80.03
¼	3.10		79.93
Curb	3.37		79.66
N. line	3.45		79.58

Curb, E. side 19th

N. line	2.65		80.38
Curb	2.40		80.63
¼	2.00		81.03
C	1.70		81.33

1/4		1.60	83.03	81.43
Curb		1.93		81.10
S. line		1.33		81.70
	E. line 19th St.			
S. line		0.35		82.68
5'		1.30		81.73
Curb		1.40		81.63
1/4		0.95		82.08
C		0.95		82.08
1/4		1.55		81.48
Curb		1.75		81.28
N. line		2.05		80.98
T. P.	+7.37	−0.61	89.83 89.83	82.42
	50' E. of E. line 19th			
N. line		4.40		85.43
Curb		4.95		84.88
1/4		4.50		85.33
C		3.85		85.98
1/4		4.10		85.73

			89.79		83.03
			5.24		0.61
		Top post N.E.	84.55	B.M.	82.42
		Cor. 19th and ¶	(84.59)		7.37
					89.79
Curb		4.60	89.83	85.23	84.59
					5.24
4'		4.10		85.73	89.83
					0.84
					88.99
S. line		3.30		86.53	10.91
					99.90
T. P.	+10.91	−0.84	99.90 99.90	88.99	
	100' E. of E. line 19th				
S. line		9.15		90.75	
Curb		9.80		90.10	
1/4		9.37		90.53	
C		9.65		90.25	
1/4		9.94		89.96	
Curb		{10.25 9.47		{89.75 90.57	
N. line		9.70		90.20	
	150' E. of E. line 19th				
N. line		5.30		94.60	
Curb		{5.40 5.85		{94.50 94.15	
1/4		5.53		94.37	
C		5.20		94.70	
1/4		5.10		94.80	

Curb		5.50	99.90	94.40
S. line		5.05		94.85
	W. line 20th St.			
S. line		1.80		98.10
Curb		2.05		97.85
¼		1.65		98.25
C		1.50		98.40
¼		1.80		98.10
3'		2.00		97.90
Curb		1.70		98.20
N. line		1.65		98.25
T.P.	+10.34	−0.49	109.75	99.41
	Curb, W. side 20th St.			
N. line		11.50	109.75	98.25
Curb		11.10		98.65
¼		10.40		99.35
C		10.13		99.62
¼		10.20		99.55
Curb		10.70		99.05

99.90
0.49
99.41
10.34
109.75

S. line	11.65	109.75	98.10
	Center 20th St.		
S. line	10.00		99.75
Curb	9.27		100.48
¼	8.93		100.82
C	8.77		100.98
¼	8.83		100.92
Curb	9.05		100.70
N. line	9.83		99.92
	Curb, E. side 20th		
N. line	9.50		100.25
Curb	8.65		101.10
¼	7.93		101.82
C	7.85		101.90
¼	8.05		101.70
Curb	8.90		100.85
S. line	9.50		100.25
	E. line 20th		
S. line	7.90		101.85

Curb		8.15	109.75	101.60
6'		8.40		101.35
¼		7.70		102.05
C		7.15		102.60
¼		7.40		102.35
Curb		7.50		102.25
N. line		7.33		102.42
	50' E. of E. line 20th			
N. line		3.15		106.60
Curb		3.45		106.30
1'		4.07		105.68
¼		3.37		106.38
C		3.35		106.40
¼		3.70		106.05
Curb		4.70		105.05
2'		4.00		105.75
S. line		4.10		105.65
T.P.	+11.52	−0.96	120.31	108.79

0.96
108.79
11.52
120.31

	100' E. of E. line 20th			
S. line	11.00	120.31	109.31	
2'	10.73		109.58	
Curb	11.15		109.16	
¼	9.95		110.36	
C	9.80		110.51	
¼	10.10		110.21	
4'	10.70		109.61	
Curb	10.10		110.21	
N. line	10.20		110.11	
	750' E. of E. line 20th			
N. line	6.55		113.76	
Curb	6.70		113.61	
¼	6.13		114.18	
C	5.65		114.66	
¼	5.90		114.41	
Curb	7.10		113.21	
2.5'	7.00		113.31	
	6.60		113.71	
S. line	6.70		113.61	

W. line 21st St.

S. line		2.45	120.31	117.86
2'		2.35 2.80		117.96 117.51
Curb		2.90		117.41
¼		2.27		118.04
C		2.22		118.09
¼		2.75		117.56
6'		3.2		117.11
Curb		2.70		117.61
N. line		2.50		117.81
	Curb, N. side 21st.			
N. line		2.40		117.91
Curb		2.50		117.81
¼		1.70		118.61
C		1.40		118.91
¼		1.30		119.01
Curb		2.00		118.31
S. line		1.20		118.11
T. P.	+11.56	−0.22	131.65	120.09

+131.31
0.22
120.09
11.56
+131.65

Center 21st St.

S. line	11.40	131.65	120.25
Curb	11.15		120.50
¼	11.00		120.65
C	11.00		120.65
¼	11.13		120.52
Curb	11.20		120.45
N. line	11.50		120.15
	Curb, E. side 21st.		
N. line	10.95		120.70
7'	11.13		120.52
Curb	10.60		121.05
¼	9.85		121.80
C	10.00		121.65
¼	10.13		121.52
Curb	10.83		120.82
S. line	11.27		120.38
	E. line 21st		
S. line	9.60		122.05
Curb	10.00		121.65

¼	9.85	131.65	121.80
C	9.50		122.15
¼	9.70		121.95
Curb	10.00		121.65
N. line	10.20		121.45
	50' E. of E. line 21st.		
N. line	4.60		127.05
3'	5.40		126.25
Curb	5.60		126.05
¼	5.10		126.55
C	5.10		126.55
¼	5.30		126.35
Curb	5.70		125.95
S. line	5.30		126.35
	100' E. of E. line 21st.		
S. line	0.85		130.80
2'	0.90		130.75
Curb	1.50		130.15
¼	0.70		130.95

~~130.65~~
0.35
131.30
11.53
142.83

C	0.45	131.65	131.20	
¼	0.64		131.01	
Curb	0.75		130.90	
N. line	0.00		131.65	
T.P.	+11.53	−0.35	142.83	131.30
	125' E. of E. line 21st			
N. line	8.60	142.83	134.23	
Curb	9.30		133.53	
2'	9.85		132.98	
¼	9.80		133.03	
C	9.40		133.43	
¼	9.85		132.98	
1'	10.45		132.38	
Curb	10.00		132.83	
S. line	9.80		133.03	
	150' E. of E. line 21st			
S. line	7.95		134.88	
2'	7.90		134.93	
Curb	8.20		134.63	

¼	7.55	142.83	135.28
C	7.20		135.63
¼	7.30		135.53
3'	7.95		134.88
Curb	7.30		135.53
N. line	6.70		136.13
	N. line 22nd St.		
N. line	4.30		138.53
Curb	4.35		138.48
4'	4.90		137.93
¼	4.60		138.23
C	4.60		138.23
¼	4.70		138.13
2'	4.90		137.93
Curb	4.40		138.43
S. line	4.30		138.53
	Curb, W. side 22nd		
S. line	4.90		137.93
Curb	4.85		137.98

¼	4.40	142.83	138.43
C	4.35		138.48
¼	4.70		138.13
Curb	5.05		137.78
N. line	4.85		137.98
	Center 22nd St.		
N. line	3.65		139.18
Curb	3.55		139.28
¼	3.50		139.33
C	3.60		139.23
¼	3.55		139.28
Curb	3.65		139.18
S. line	3.65		139.18
	Curb, E. side 22nd		
S. line	3.90		139.53
Curb	3.50		139.33
¼	3.40		139.43
C	3.30		139.53
¼	3.30		139.53

Curb		3.40	142.83	139.43
N. line		3.20		139.63
	E. line 22nd St.			
N. line		2.57		140.26
Curb		2.40		140.43
¼		2.73		140.13
C		2.77		140.06
¼		2.75		140.08
Curb		2.87		139.96
S. line		2.55		140.28
T.P.	+11.54	−0.41	153.96	142.42
	25' E of E. line 22nd			
S. line		9.50	153.96	144.46
7		10.40		143.56
Curb		10.30		143.66
¼		10.80		143.16
C		10.60		143.36
¼		10.35		143.61
4'		10.50		143.46
Curb		9.35		144.61

				153.96
				0.41
				142.42
				11.54
				153.96
6'		9.05	153.96	144.91
N. line		7.40		146.56
	50' E of E. line 22nd			
N. line		5.80		148.16
3'		6.40		147.56
Curb		6.80		147.16
5'		7.50		146.46
¼		7.00		146.96
C		7.00		146.96
¼		8.00		145.96
Curb		8.45		145.51
S. line		8.10		145.86
	100' E of E. line 22nd			
S. line		5.30		148.66
3'		5.40		148.56
Curb		5.90		148.06
¼		4.60		149.36
C		4.85		149.61
¼		4.50		149.46

5'		5.00	153.96	148.96
Curb		4.35		149.61
N. line		2.70		151.26
	150' E. of E. line 23rd			
N. line		0.20		153.76
5'		0.85		153.11
Curb		0.90		153.06
2'		1.90		152.06
¼		1.55		152.41
C		1.65		152.31
¼		1.73		152.23
Curb		3.30		150.66
3'		2.60		151.36
S. line		2.80		151.16
T.P.	+8.23	-1.33	160.86	152.63
	W. line 23rd St.			
N. line		4.50	160.86	156.36
Curb.		5.20		155.66

153.96
1.33
152.63
8.23
160.86

Curb			
2'	5.80	160.86	155.06
¼	5.80		155.06
C	5.90		154.96
¼	6.30		154.56
Curb	7.50		153.36
S. line	7.77		153.09
	Curb, N. side 23rd		
S. line	7.45		153.41
Curb	7.20		153.66
¼	6.20		154.66
C	5.60		155.26
¼	5.40		155.46
Curb	5.25		155.61
N. line	4.35		156.51
	Center 23rd St.		
N. line	3.90		156.96
Curb	4.40		156.46
¼	5.00		155.86
C	5.30		155.56

¼	5.65	160.86	155.21
Curb	6.47		154.39
S. line	7.10		153.76
Curb & Side 23rd			
S. line	7.35		153.51
Curb	6.80		154.06
¼	6.15		154.71
C	5.57		155.29
¼	5.05		155.81
Curb	4.43		156.43
N. line	3.80		157.06
E. line 23rd St.			
N. line	3.65		157.21
Curb	4.60		156.26
¼	5.04		155.82
C	5.40		155.46
¼	6.30		154.56
Curb	6.90		153.96

S. line	7.40	160.86	153.46
50' E. of E. line 23rd			
S. line	6.42		154.44
Curb	6.60		154.26
¼	5.60		155.26
C	4.95		155.91
¼	5.00		155.86
Curb	4.65		156.21
↑ 2'	4.30		156.56
N. line	3.57		157.29
100' E. of E. line 23rd			
N. line	3.65		157.21
Curb	3.95		156.91
↑ 3'	4.60		156.26
¼	4.50		156.36
C	4.50		156.36
¼	5.50		155.36
Curb	5.90		154.96
S. line	6.30		154.56

W. line 24th St.

S. line		5.05	160.86	155.81	
Curb		4.83		156.03	
1/4		4.80		156.06	
C		4.05		156.81	
1/4		4.10		156.76	
Curb		3.90		156.96	
N. line		3.40		157.46	
	+	−	9 H		
	11.22		156.56	145.34	B.M
T. P. Oct. 30/1901 Crowell Fortina Daley	11.82	1.22	167.16		

Curb W. side of 24th St.

S. line		10.80	167.16	156.36	
Curb		11.20		155.96	
1/4		10.80		156.36	
C		10.18		156.98	
1/4		10.20		156.96	
Curb		10.20		156.96	
N. line		9.50		157.66	

⊖160.86
2.46
158.40 B.M. Spk in
(158.35) Cor. fence Post. N.E.
24th and F.

Center of 24th St.

N. line	9.85	167.16 167.16	157.31	⊖160.86 7.43 153.43 0.39 ⊖153.82 8.47 145.35 Ch. On Nozzle Hydt. S.W. Cor 24th + G (145.34)
Curb	9.90		157.26	
℄ 1/4	9.90		157.26	
C	10.05		157.11	
1/4	10.65		156.51	
Curb	10.95		156.21	
S. line	10.56		156.60	145.34 11.22 156.56 1.22 155.34 11.82 167.16

Curb East side 24th

S. line	9.55	157.61	
Curb	10.58	156.58	
1/4	9.90	157.26	
C	9.55	157.61	
1/4	9.72	157.44	
Curb	9.55	157.61	
N. line	9.00	158.16	

East line 24th St.

167.16

N. line	8.88	167.16	158.28
Curb	8.55		158.61
¼	9.35		157.81
C	9.28		157.88
¼	9.80		157.36
Curb	10.10		157.06
S. line	9.92		157.22

50 ft. East of 24th St.

S. line	7.42		159.74
Curb	7.70		159.46
¼	7.17		159.99
C	6.58		160.58
¼	6.72		160.44
Curb	6.28		160.88
N. line	5.42		161.74

100 ft East of 24th St.

167.16

N. line		2.40		164.76
Curb		4.05		163.11
¼		3.70		163.46
C		3.75		163.41
¼		4.25		162.91
Curb		4.92		162.24
S. line		4.50		162.66

150 ft. East of 24th St.

S. line		1.65		165.41
Curb		2.12		165.04
¼		1.22		165.94
C		0.85		166.31
¼		0.73		166.43
Curb		1.25		165.91
N. line		6.0		167.16
+	11.01	0.39	177.78	166.77

167.16
0.39
166.77
11.01
177.78

200 ft. East of 24th St.

N. line	7.35	177.78	170.43
Curb	9.25		168.53
¼	8.70		169.08
C	8.90		168.88
¼	9.08		168.70
Curb	10.48		167.30
1'	10.00		167.78
S. line	9.8		167.98

250 ft. East of 24th St.

S. line	6.90		170.88
Curb	7.85		169.93
¼	6.80		170.98
C	6.00		171.78
¼	6.05		171.73
Curb	6.20		171.58
1'	5.75		172.03
N. line	4.78		173.00

300 ft. East of 24th

N. line	3.30	177.78	174.48
Curb	3.20		174.58
1'	4.20		173.58
¼	3.60		174.18
C	3.52		174.26
¼	4.25		173.53
Curb	4.90		172.88
S. line	4.46		173.38

350 ft. East of 24th St.

S. line	3.32		174.46
Curb	3.40		174.38
¼	2.88		174.90
C	2.65		175.13
¼	2.40		175.38
Curb	1.52		176.26
N. line	0.90		176.88

400 ft East of 24th St.

N. line		0.70	177.78	177.08
Curb		0.85		176.93
¼		1.27		176.66
C		1.45		176.33
¼		1.72		176.06
Curb		2.15		175.63
S. line		2.20		175.58
T. P.	8.42	1.72	184.48	176.06

450 ft. East of 24th St.

S. line		7.60	184.48	176.88
Curb		7.80		176.68
¼		7.75		177.23
C		7.00		177.48
¼		8.00		176.48

Cement Walk & Curb in Patterson

500' East of 24th St.

177.78
1.72
176.06
8.42
184.48

N. line	Walk & Curb	184.48	
Curb			
¼	7.10		177.38
C	5.90		178.58
¼	6.10		178.38
Curb	6.35		178.13
S. line	6.10		178.38

550 ft. East of 24th St.

S. line		4.52	179.96
Curb		5.15	179.33
¼		4.05	180.43
C		4.72	179.76
¼		5.50	178.98
Curb			
N. line	walked		

West line of 25th St.

N. line		184.48	
Curb			
¼	4.40		180.08
C	3.10		181.38
¼	2.82		181.66
Curb	2.60		181.88
S. line	1.90		182.58

Levels on center line of El Cajon av. commencing at the East line of Park Bou'd.

B.M. spikes in Tel. Pole N.E. Cor. Park Bd. + El Cajon				100.00
	1.60		101.60 ✓	+ 100.00
0 E. line		3.60		✓ 98.00
+50		7.70		✓ 93.90
T.P.	0.15	11.62	90.13 ✓	✓ 89.98
1		1.50		✓ 88.63
+50		5.30		✓ 84.83
2		7.90		✓ 82.23
+50		10.50		✓ 79.63
T.P.	2.46	11.90	80.69 ✓	✓ 78.23
3		3.30		✓ 77.39
+50		5.80		✓ 74.89
4		7.60		✓ 73.09
+50		8.50		✓ 72.19
5.		9.60		✓ 71.09
5 +50		10.90		✓ 69.79

May 10/02
d'Heme comt
Fortiner

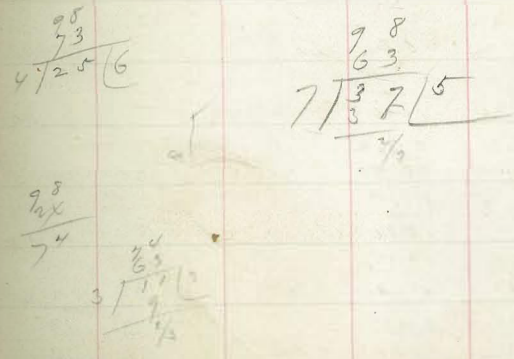
			80.69	
T.P.	2.19	11.63	71.25	✓ 69.06
6		3.70		✓ 67.55
+50		5.80		✓ 65.45
7		8.30		✓ 62.95

98
73
4) 25 (6

98
63
7) 37 (5
3
2/3

98
2x
74

44
63
3) 11 (2
9
2/3



Cross-sections on L "A" St. Road

Sta.	L	R	c ±	L	R
25+50	−18.2 / 37.0	−22.0 / 10.0	−22.6	−20.6 / 10.0	−25 / 38.0
26	−9.2 / 37.0	−13.7 / 10.0	−15.3	−16.3 / 10.0	−22.2 / 31.0
+50	−7.8 / 26.00	−10.0 / 10.0	−12.3	−13.7 / 10.0	−19.5 / 31.0
27	−8.9 / 27.0	−11.5 / 10.0	−13.7	−17.7 / 10.0	−27.1 / 35.0
+50	−8.6 / 24.0	−10.6 / 10.0	−14.1	−19.1 / 10.0	−24.0 / 38.0
28	−7.5 / 24.0	−12.8 / 10.0	−18.6	−21.6 / 10.0	−18.6 / 24.00
+50	−4.0 / 38.00	−20.7 / 10.0	−15.5	−11.5 / 10.00	−5.0 / 24.00
29	−9.5 / 18.00	−5.7 / 10.00	−1.7	0.0 / 10.0	
+50		+2.5 / 10.00	+3.4	+3.9 / 10.00	
30		+1.3 / 10.00	+2.3	+2.8 / 10.0	
44+50		+2.2 / 11.0	+0.5	−1.3 / 10.00	−2.5 / 12.0
45	+2.0 / 12.00	+1.5 / 10.00	+0.5	−1.8 / 10.0	−2.6 / 11.00
+50	+3.1 / 12.00	+2.5 / 10.00	+0.3	−2.3 / 10.00	−3.3 / 13.0
+83	+2.3 / 11.0	+1.9 / 10.0	−0.6	−3.6 / 10.0	−5.6 / 16.0
46	+3.2 / 11.00	+2.7 / 10.0	+0.2	−2.8 / 10.0	−4.1 / 14.0
+50	+5.1 / 12.0	+4.6 / 10.00	+0.3	−3.4 / 10.0	−4.5 / 14.0

Sta.	L	R	c ±	L	R
47	+6.3 / 13.0	+5.0 / 10.0	+1.3	−3.0 / 10.0	−4.4 / 14.5
+50	+6.8 / 13.0	+5.1 / 10.00	+1.4	−3.6 / 10.0	−4.2 / 14.5
48+03	+4.7 / 12.0	+4.8 / 10.00	+0.7	−2.7 / 10.0	−4.5 / 14.0
+50	+2.3 / 11.0	+2.0 / 10.0	−1.2	−4.7 / 10.0	−7.5 / 18.00
49	+4.2 / 12.0	+3.6 / 10.0	−0.4	−4.7 / 10.0	−7.5 / 18.0
+50	+4.4 / 12.0	+3.9 / 10.0	−0.1	−3.9 / 10.0	−6.0 / 16.0
50	+5.6 / 13.0	+4.8 / 10.0	+1.0	−2.6 / 10.0	−3.8 / 14.0
+50	+5.2 / 13.0	+4.5 / 10.0	+1.8	−1.0 / 10.0	−1.7 / 13.0
52+50	+6.2 / 13.0	+5.5 / 10.0	+3.2	+0.6 / 10.0	
53	+4.5 / 12.0	+3.9 / 10.0	+0.9	−1.7 / 10.0	−2.2 / 13.0
+50	+3.9 / 13.0	+3.1 / 10.0	−1.1	−6.1 / 10.0	12.0 / 19.0
+90	+3.3 / 12.0	+2.7 / 10.0	−0.9	−4.6 / 10.0	−5.6 / 17.0
54+50	Level.		−9.1		
+90	+6.6 / 13.0	+5.5 / 10.0	+1.2	−2.5 / 10.0	−3.2 / 13.0
55+35	+10.1 / 14.5	+8.6 / 10.0	+4.3	−0.7 / 10.0	−1.8 / 12.0
+50	+6.4 / 13.0	+5.2 / 10.0	+1.9	−2.2 / 10.0	−3.2 / 13.0

	L			R	
56	−0.6 / 12.0	−1.0 / 10.0	−2.7	−5.1 / 10.0	−6.6 / 17.0
+50	+1.0 / 11.0	+0.6 / 10.0	−2.4	−4.6 / 10.0	−6.7 / 17.0
57	+8.4 / 13.5	+6.9 / 10.0	+3.4	−0.8 / 10.0	−1.5 / 11.0
+50	+8.5 / 14.0	+7.4 / 10.0	+4.2	−0.6 / 10.0	−1.6 / 12.0
58	+6.0 / 13.0	+5.2 / 10.0	+2.7	−0.8 / 10.0	−2.8 / 12.0
+19	+6.2 / 13.0	+5.7 / 10.0	+2.2	−3.6 / 10.0	−5.6 / 15.0
+50		+0.2 / 10.0	−4.6	−9.2 / 10.0	12.2 / 23.0
+74	+6.4 / 13.0	+5.5 / 10.0	+3.0	+1.0 / 10.0	
59	+5.4 / 13.0	+5.0 / 10.0	+3.4	+1.4 / 10.0	+0.8 / 11.0
+50	+3.3 / 12.0	+2.8 / 10.0	+1.8	+0.9 / 10.0	+0.4 / 11.0
60	+4.7 / 12.0	+4.1 / 10.0	+1.8	+0.3 / 10.0	
+50	+5.5 / 13.0	+5.0 / 10.0	+3.0	+1.0 / 10.0	+0.5 / 11.0
+68	+6.0 / 13.0	+5.0 / 10.0	+2.0	0.0 / 10.0	
61	−3.5 / 12.0	−4.5 / 10.0	−5.6	−7.9 / 10.0	−8.6 / 15.0
62+17	−3.2 / 15.6	−5.8 / 10.0	−7.9	−9.3 / 10.0	−10.3 / 19.00
+50	+2.1 / 11.00	+0.8 / 10.0	−2.6	−6.0 / 10.0	−8.1 / 19.0
+90	+6.1 / 13.0	+5.1 / 10.0	+1.1	−2.4 / 10.0	−3.9 / 14.0
63+30	+8.5 / 14.0	+7.7 / 10.0	+4.7	+1.7 / 10.0	+0.7 / 11.0

	L			R	
+50		0.0 / 10.0	−2.1	−4.4 / 16.0	−6.4 / 16.0
+62	Level				
64	−1.0 / 16.00	−2.8 / 10.0	−6.8	−8.6 / 10.0	−9.6 / 23.0
+50	+8.4 / 14.0	+7.4 / 10.0	+3.6	−1.4 / 10.0	−2.4 / 12.0
+99	+6.8 / 13.0	+6.1 / 10.0	+2.8	−0.7 / 10.0	−1.7 / 11.0
65+21	+1.7 / 11.0	+1.2 / 10.0	−2.4	−5.0 / 10.0	−7.4 / 18.0
+50	+4.7 / 12.0	+3.0 / 10.0	+0.6	−2.7 / 10.0	−4.0 / 15.0
66	+4.4 / 12.0	+3.8 / 10.0	+0.3	−3.3 / 10.0	−4.1 / 15.0
+50	+5.0 / 12.0	+4.3 / 10.0	−0.5	−6.0 / 10.0	−9.0 / 19.0
+75	+3.6 / 12.0	+2.7 / 10.0	−2.6	−7.4 / 10.0	−N.0 / 21.0
67	+5.0 / 12.0	+4.2 / 10.0	−0.8	−5.9 / 10.0	−10.0 / 19.0
+50	+3.6 / 12.0	+3.0 / 10.0	+1.1	−0.6 / 10.0	0.0 / 11.0
68	+2.7 / 11.0	+2.6 / 10.0	+0.3	−1.7 / 10.0	−1.9 / 13.0
+50	+3.2 / 12.0	+2.9 / 10.0	+1.5	−0.5 / 10.0	−0.9 / 11.0
69	+3.1 / 12.0	+2.8 / 10.0	+1.3	−0.4 / 10.0	−0.6 / 11.0
+50	+3.3 / 12.0	+3.0 / 10.0	+1.6	−0.4 / 10.0	−0.7 / 11.0
70	+2.9 / 12.0	+2.7 / 10.0	+0.9	−2.1 / 10.0	−3.1 / 13.0

	L			R	
70 +50	+1.6 / 11.0	+1.3 / 10.0	+0.3	-2.7 / 10.0	-4.3 / 15.0
71	+3.2 / 12.0	+2.9 / 10.0	+1.4	0.0 / 10.0	
+50	+1.7 / 11.0	+1.5 / 10.0	+0.7	-0.6 / 10.0	-0.9 / 11.0
72	Level		-1.1		
+50	-6.0 / 18.0	-5.0 / 10.0	-4.4	-5.0 / 10.0	-6.0 / 18.0
+75	-6.0 / 18.0	-5.0 / 10.0	-4.3	-5.0 / 10.0	-6.0 / 18.0
73	Level		-9.3		
+15	"		-12.8		
+50	"		-4.8		
74	+4.3 / 12.0	+4.1 / 10.0	+3.0	+1.5 / 10.0	+1.3 / 11.0
+50	+5.4 / 13.0	+5.1 / 10.0	+4.1	+3.0 / 10.0	+2.7 / 12.0

7/16/02 Crowell Dennis

Cross-sections on K. 32nd and F. St. Road

Sta	L		C+−	R	
48,+20	−4.8 / 13.0	−4.3 / 10.0	−2.8	+1.7 / 10.0	+2.2 / 11.0
+50	−3.8 / 16.0	−3.4 / 10.0	+0.2	+5.7 / 10.0	+7.5 / 13.0
49	−4.1 / 15.0	−3.2 / 10.0	+0.5	+7.2 / 10.0	+9.0 / 14.0
+50	−2.4 / 13.0	−1.8 / 10.0	0.0	+2.8 / 10.0	+3.6 / 12.0
50	−1.4 / 12.0	−0.9 / 10.0	+1.1	+5.0 / 10.0	+6.9 / 13.0
+50	+1.2 / 12.0	+2.5 / 10.0	+4.3	+13.2 / 10.0	+16.2 / 16.0
51	−3.1 / 13.0	−2.4 / 10.0	+3.7	+11.1 / 10.0	+17.0 / 16.0
+14	−4.7 / 15.0	−3.7 / 10.0	+1.8	+8.8 / 10.0	+11.0 / 15.0
+50	−4.9 / 15.0	−3.2 / 10.0	+4.1	+10.9 / 10.0	+13.5 / 16.0
+58	out		+4.5		
52	−7.6 / 19.0	−6.6 / 10.0	−3.9	+1.4 / 10.0	+1.6 / 11.0
+50	−4.3 / 15.0	−3.9 / 10.0	−3.1	−2.1 / 10.0	−1.5 / 13.0
53	+0.9 / 11.0	+1.2 / 10.0	+2.2	+3.4 / 10.0	+3.5 / 12.0
+28	+2.5 / 12.0	+3.0 / 10.0	+4.1	+5.5 / 10.0	+6.2 / 13.0
+50		0.0 / 10.0	+1.6	+3.6 / 10.0	+4.6 / 12.0
54	−4.9 / 16.0	−4.6 / 10.0	−3.3	+0.5 / 10.0	+1.2 / 11.0

	L			R	
+50	−5.0 / 16.0	−4.4 / 10.0	−2.3	0.0 / 10.0	
55	−2.7 / 13.0	−2.0 / 10.0	−0.5	+1.2 / 10.0	+1.4 / 11.0
+50	−2.2 / 13.0	−2.0 / 10.0	−0.9	0.0 / 10.0	
56	−1.9 / 12.0	−1.7 / 10.0	−0.6	+0.8 / 10.0	+1.0 / 11.0
50	−1.1 / 12.0	−1.0 / 10.0	+0.3	+1.4 / 10.0	+1.6 / 11.0
57	−3.0 / 13.0	−2.1 / 10.0	+0.6	+2.9 / 10.0	+3.3 / 12.0
+50	−1.5 / 12.0	−1.3 / 10.0	−0.2	+1.2 / 10.0	+1.5 / 11.0
58	−3.5 / 15.0	−3.0 / 10.0	−1.5	0.0 / 10.0	
+50	−3.0 / 13.0	−2.8 / 10.0	−2.2	−3.0 / 10.0	−3.4 / 15.0
59	Level		−2.5		
+50	"		−1.9		
60	"		−1.4		
+50	"		−0.3		
61	+0.9 / 11.0	+1.0 / 10.0	+2.4	+3.7 / 10.0	+3.9 / 12.0
+50	+3.1 / 12.0	+3.4 / 10.0	+4.4	+5.2 / 10.0	+5.4 / 13.0
+65	Level		+4.1		
62	+2.0 / 11.0	+2.1 / 10.0	+2.4	+3.1 / 10.0	+3.4 / 12.0
+50		0.0 / 10.0	+0.2	+1.0 / 10.0	+1.1 / 11.0

63			0.0 / 10.0	+1.3	+2.8 / 10.0	+3.4 / 12.0
	+50	−1.4 / 12.0	−1.3 / 10.0	+2.9	Level	
	+62	−1.4 / 12.0	−1.3 / 10.0	+3.6	+4.2 / 10.0	+4.3 / 12.0

7/19/02 {Cowell Davis}

Cross-sections on Road from 5th and Univ. Ave. to "Old Town"

	L			R	
94+50	Level		+1.5 ~~+0.7~~		
95	0.0 / 12.0	−0.8 / 10.0	−3.4	−0.7 / 10.0	−0.4 / 12.0
+19	−2.7 / 18.0	−5.3 / 10.0	−3.3	0.0 / 10.0	
+36	−4.0 / 26.0	−11.6 / 10.0	−7.0	−5.0 / 10.0	−4.5 / 18.0
+59	out		−5.1		
+73	Level		−14.3	−7.1 / 10.0	−2.9 / 22.0
+87	−15.6 / 16.0	−11.0 / 10.0	−8.9	−10.0 / 10.0	−10.0 / 15.0
96	−10.4 / 22.0	−7.9 / 10.0	−6.2	Level	
+20	−3.4 / 14.0	−2.3 / 10.0	+0.2	+0.8 / 10.0	+1.0 / 12.0
+50	−2.1 / 13.0	−1.6 / 10.0	+0.4	+2.4 / 10.0	+3.2 / 13.0
+80	−5.4 / 15.0	−3.1 / 10.0	+1.6	+4.2 / 10.0	+4.5 / 12.0
97	−6.0 / 15.0	−3.3 / 10.0	+0.7	+4.0 / 10.0	+5.0 / 12.0
+50	−9.5 / 19.0	−5.5 / 10.0	−1.3	+2.1 / 10.0	+2.7 / 12.0
+60	−10.0 / 19.0	−5.7 / 10.0	−1.5	+2.3 / 10.0	+3.0 / 12.0
98	−9.1 / 19.0	−6.3 / 10.0	−3.2	+0.8 / 10.0	+1.4 / 12.0

98+50	-7.9 / 19.0	-5.5 / 10.0	-1.9	+2.5 / 10.0	+3.2 / 12.0
99	-4.0 / 18.0	-2.0 / 10.0	+2.3	+6.3 / 10.0	+7.7 / 13.0
+25		-0.0 / 10.0	+3.6	+7.3 / 10.0	+8.8 / 14.0
+50		0.0 / 10.0	+7.7	+5.9 / 10.0	+7.0 / 13.0
100	-8.6 / 17.0	-4.6 / 10.0	-0.6	+4.4 / 10.0	+5.6 / 13.0
+50	-6.0 / 15.0	-3.0 / 10.0	+0.3	+4.8 / 10.0	+5.9 / 13.0
+66	-6.5 / 16.0	-3.7 / 10.0	-0.1	+4.0 / 10.0	+4.9 / 12.0
101	-7.0 / 19.0	-5.5 / 10.0	-1.5	+2.0 / 10.0	+3.0 / 12.0
+50	-9.4 / 16.0	-4.4 / 10.0	-0.4	+4.8 / 10.0	+4.4 / 12.0
+65	-5.8 / 16.0	-3.3 / 10.0	-0.3	+3.8 / 10.0	+3.6 / 12.0
+85	-9.0 / 20.0	-6.7 / 10.0	-3.2	+1.3 / 10.0	+2.6 / 14.0
+91	-8.6 / 19.0	-5.6 / 10.0	-1.8	+2.0 / 10.0	+3.0 / 12.0
102 +09	-6.5 / 16.0	-3.7 / 10.0	+0.7	+3.2 / 10.0	+4.0 / 12.0
+50	-14.0 / 21.0	-7.0 / 10.0	+0.3	+6.0 / 10.0	+7.3 / 12.0
+89	-6.0 / 16.0	-3.8 / 10.0	+2.7	+7.7 / 10.0	+9.7 / 14.0
103	-5.0 / 15.0	-3.0 / 10.0	+2.2	+6.8 / 10.0	+8.7 / 14.0
+45	-13.0 / 22.0	-7.9 / 10.0	-1.7	+2.8 / 10.0	+4.0 / 12.0
+74	-5.5 / 16.0	-2.3 / 10.0	+1.9	+6.7 / 10.0	+9.0 / 14.0

104	-9.6 / 19.0	-6.6 / 10.00	-0.6	+4.5 / 10.0	+5.5 / 12.00
+03	-9.6 / 19.00	-6.5 / 10.00	-1.5	+3.5 / 10.0	+4.5 / 13.00
+18	-7.5 / 16.0	-4.0 / 10.0	+0.7	+5.6 / 10.0	+7.1 / 13.0
+50	-13.3 / 19.0	-6.3 / 10.0	+0.7	+6.8 / 10.0	+8.1 / 14.0
+85	-17.4 / 25.0	-10.3 / 10.0	-2.9	+4.5 / 10.0	+5.6 / 12.0
105	-19.0 / 25.00	-10.5 / 10.0	-2.3	+6.7 / 10.0	+7.8 / 13.0
+19	-20.0 / 25.0	-9.4 / 10.0	-0.1	+7.5 / 10.0	+10.5 / 14.0
+26	-9.5 / 16.0	-4.5 / 10.0	+2.6	+9.0 / 10.0	+10.8 / 15.0
+50	-5.5 / 15.0	-3.4 / 10.0	+1.2	+6.2 / 10.0	+7.7 / 13.0
106	-7.6 / 18.0	-5.0 / 10.0	-0.9	+4.0 / 10.0	+5.1 / 12.0
+30	-9.0 / 18.0	-5.5 / 10.0	+1.0	+7.5 / 10.0	+9.2 / 14.0
+50	-11.0 / 18.0	-5.7 / 10.0	-0.1	+6.5 / 10.0	+5.9 / 14.0
+67	-9.1 / 18.0	-5.1 / 10.0	-1.1	+4.5 / 10.0	+6.3 / 13.0
107	-3.2 / 14.0	-2.1 / 10.0	+1.3	+4.7 / 10.0	+6.1 / 13.0
+50	-15.0 / 37.0	-19.3 / 10.0 -7.2 / 8	-4.2	+3.2 / 10.0	+3.8 / 12.0
+70	-3.8 / 14.0	-2.3 / 10.0	+1.7	+4.8 / 10.0	+5.8 / 13.0
108	-3.0 / 13.0	-1.5 / 10.0	+1.0	+4.5 / 10.0	+5.6 / 13.0
+50	-8.0 / 16.0	-4.1 / 10.0	+0.5	+4.3 / 10.0	+4.8 / 13.0

108 + 65	−9.5 / 19.0	−6.4 / 10.0	−2.4	+1.2 / 10.0	+1.9 / 12.0
109 −	−6.1 / 16.0	−4.1 / 10.0	−0.5	+3.3 / 10.0	+4.0 / 12.0
+50	−4.1 / 14.0	−2.7 / 10.0	+0.6	+4.6 / 10.0	+5.6 / 13.0
+95	−7.3 / 17.0	−4.3 / 10.0	+1.2	+5.5 / 10.0	+6.5 / 13.0
110 + 07	−7.8 / 18.0	−4.8 / 10.0	−0.6	+4.4 / 10.0	+5.5 / 13.0
+50	−3.8 / 14.0	−2.2 / 10.0	+1.0	+4.4 / 10.0	+5.4 / 13.0
+68	−5.0 / 16.0	−3.9 / 10.0	−0.8	+3.0 / 10.0	+3.5 / 12.0
111	−5.4 / 16.0	−3.6 / 10.0	+0.6	+4.6 / 10.0	+6.0 / 13.0
+50	−2.2 / 13.0	−1.4 / 10.0	+1.8	+5.7 / 10.0	+6.9 / 13.0
112	−2.2 / 13.0	−1.3 / 10.0	+2.1	+5.8 / 10.0	+7.1 / 13.0
+50	−4.4 / 14.0	−2.2 / 10.0	+1.9	+5.9 / 10.0	+6.9 / 13.0
113	−3.7 / 14.0	−2.3 / 10.0	+2.0	+6.5 / 10.0	+8.5 / 14.0
+26	−8.9 / 19.0	−6.1 / 10.0	+0.9	+5.5 / 10.0	+6.5 / 13.0
+50	−3.2 / 14.0	−2.2 / 10.0	+0.8	+3.5 / 10.0	+4.3 / 13.0
+62	−3.3 / 14.0	−2.7 / 10.0	−0.7	+1.6 / 10.0	+2.0 / 12.0
+72	−8.5 / 19.0	−6.2 / 10.0	−3.5	−1.4 / 10.0	−1.0 / 13.00
+87	−19.0 / 37.0	−13.0 / 10.0	−11.1	−8.9 / 10.0	−6.7 / 23.0
+92	−21.0 / 35.0	−17.0 / 10.0	−15.9	−15.0 / 10.0	−13.0 / 32.0

+97	−20.0 / 28.00	−14.7 / 10.0	−11.7	−12.0 / 10.0	−9.5 / 28.0
114 + 22	−6.7 / 18.0	−4.7 / 10.0	−1.2	+1.2 / 10.0	+2.6 / 12.0
+50	+1.0 / 12.0	+1.5 / 10.0	+4.5	+7.5 / 10.0	+8.8 / 14.0
+85	−2.3 / 12.0	−0.4 / 10.0	+4.9	+8.3 / 10.0	+10.2 / 14.0
115	−2.5 / 13.0	−0.6 / 10.0	+4.5	+8.5 / 10.0	+10.3 / 14.0
+27	−6.1 / 15.0	−3.1 / 10.0	+1.9	+6.4 / 10.0	+7.6 / 13.0
+50	−3.4 / 13.0	−1.9 / 10.0	−2.0	+3.5 / 10.0	+2.5 / 12.0
116	−12.0 / 19.0	−6.6 / 10.0	−0.9	+4.4 / 10.0	+5.6 / 13.0
+42	−7.8 / 16.0	−3.8 / 10.0	+4.4	+8.8 / 10.0	+10.3 / 14.0
+50	−6.4 / 16.0	−3.4 / 10.0	+3.6	+8.1 / 10.0	+9.7 / 14.0
+57	−6.5 / 14.0	−3.6 / 10.0	+2.0	+7.5 / 10.0	+5.7 / 14.0
+75	−9.5 / 18.0	−5.5 / 10.0	+0.4	+5.1 / 10.0	+6.2 / 13.0
117	−14.6 / 24.0	−8.6 / 10.0	−5.3	−2.8 / 10.0	−2.3 / 14.0
+12	−19.0 / 26.0	−11.0 / 10.0	−7.3	−5.3 / 10.0	−3.3 / 17.0
+31	11.0 / 19.0	−6.4 / 10.0	−2.4	0.0 / 10.0	
+50	−4.0 / 15.0	−3.4 / 10.0	+0.3	+2.3 / 10.0	+3.2 / 12.0
118	−5.1 / 16.0	−4.3 / 10.0	−0.9	+2.6 / 10.0	+3.1 / 12.0
+25	−10.3 / 19.0	−6.3 / 10.0	−2.3	+2.0 / 10.0	+1.5 / 12.0

118 +50	−9.5 / 19.0	−5.9 / 10.0	−0.5	+4.6 / 10.0	+5.8 / 13.0
+71	−7.8 / 17.0	−4.6 / 10.0	+0.8	+4.8 / 10.0	+5.6 / 12.0
+85	−6.5 / 17.0	−5.4 / 10.0	−1.4	+3.8 / 10.0	+4.2 / 12.0
119	−5.0 / 15.0	−3.0 / 10.0	+1.4	+5.1 / 10.0	+5.7 / 13.0
+18	−4.3 / 14.0	−2.3 / 10.0	+2.2	+5.3 / 10.0	+6.1 / 13.0
+38	−5.6 / 16.0	−4.2 / 10.0	−1.0	+3.1 / 10.0	+3.8 / 12.0
+50	−6.8 / 15.0	−3.4 / 10.0	+0.9	+5.7 / 10.0	+7.1 / 13.0
+70	−3.0 / 13.0	−2.0 / 10.0	+3.3	+7.6 / 10.0	+9.1 / 14.0
+98	−2.1 / 12.0	−1.6 / 10.0	+1.3	+4.2 / 10.0	+5.4 / 12.0
120 +21	−7.4 / 18.0	−5.4 / 10.0	−3.4	−1.2 / 10.0	−0.9 / 12.0
+32	−13.6 / 27.0	−11.4 / 10.0	−9.4	−8.0 / 10.0	−6.0 / 22.0
+37	−10.3 / 23.0	−8.9 / 10.0	−6.6	−7.0 / 10.0	−4.0 / 16.0
+50	−10.3 / 22.0	−8.3 / 10.0	−3.6	0.0 / 10.0	
+66	−6.0 / 15.0	−3.6 / 10.0	−0.6	+4.3 / 10.0	+5.0 / 12.0
121	−4.2 / 15.0	−3.0 / 10.0	+1.4	+6.9 / 10.0	+7.6 / 14.0
+50	−2.3 / 12.0	−1.2 / 10.0	+5.7	+12.2 / 10.0	+13.2 / 16.0
+85	−3.8 / 13.0	−2.2 / 10.0	+2.6	+9.7 / 10.0	+11.7 / 15.0
122 +09	−5.7 / 13.0	−2.7 / 10.0	+3.1	+8.2 / 10.0	+9.2 / 14.0

+50	−7.3 / 18.0	−5.3 / 10.0	−1.7	+1.7 / 10.0	+2.5 / 13.0
123	−8.5 / 21.0	−6.8 / 10.0	−4.8	−2.8 / 10.0	−2.3 / 14.0
+23	−10.0 / 25.0	−6.9 / 10.0	−4.9	−3.5 / 10.0	−2.7 / 15.0
+50	−6.8 / 17.0	−4.8 / 10.0	−2.4	0.2 / 10.0	
124	−2.4 / 13.0	−1.4 / 10.0	+1.4	+4.3 / 10.0	+4.9 / 12.0
+50	−6.6 / 16.0	−4.3 / 10.0	+0.5	+4.7 / 10.0	+5.7 / 13.0
125	−8.0 / 18.0	−5.4 / 10.0	−0.4	+5.2 / 10.0	+7.0 / 15.0
+50	−5.3 / 16.0	−4.3 / 10.0	−1.7	+2.3 / 10.0	+3.0 / 12.0
+74	−6.6 / 16.0	−3.7 / 10.0	+0.9	+4.1 / 10.0	+4.9 / 12.0
126	−5.6 / 15.0	−3.0 / 10.0	+1.3	+7.0 / 10.0	+8.7 / 14.0
+40	−3.5 / 15.0	−3.0 / 10.0	+0.4	+3.0 / 10.0	+4.4 / 13.0
+58	−5.3 / 16.0	−4.3 / 10.0	−2.9	+1.3 / 10.0	+1.6 / 12.0
127	−2.1 / 13.0	−1.8 / 10.0	−0.8	+1.2 / 10.0	+1.8 / 12.0
+30	−2.7 / 13.0	−2.4 / 10.0	−1.1	+3.4 / 10.0	+4.6 / 12.0
+50	−4.3 / 14.0	−2.5 / 10.0	+0.1	+4.3 / 10.0	+4.9 / 12.0
128	−3.7 / 13.0	−2.4 / 10.0	+1.2	+5.5 / 10.0	+6.8 / 13.0
+50	−3.0 / 13.0	−2.0 / 10.0	+0.3	+3.9 / 10.0	+4.2 / 12.0
129		−0.0 / 10.0	−1.8	+1.4 / 10.0	+1.6 / 12.0

+41	−1.5 / 12.0	−1.4 / 10.0	+1.0	+2.6 / 10.0	+3.0 / 12.0
+50	−2.5 / 13.0	−1.9 / 10.0	−0.7	+2.0 / 10.0	+2.2 / 12.0
+58	−1.6 / 12.0	−1.3 / 10.0	+0.8	+2.0 / 10.0	+2.2 / 12.0
+82	−0.9 / 12.0	−0.6 / 10.0	+0.3	+1.2 / 10.0	+1.5 / 12.0

Cross Section Notes East Point Loma Road from Station 50 to Station 79+94.

	Left		C	Right	
50	+0.7 / 20.0	−1.1 / 10.0	−2.6	−4.0 / 10.0	−5.5 / 20.0
+50	+2.9 / 20.0	+1.7 / 10.0	−0.1	−1.4 / 10.0	−2.5 / 20.0
+70	+5.0 / 20.0	+3.4 / 10.0	+1.8	+0.5 / 10.0	−0.8 / 20.0
+90	−1.2 / 20.0	−3.1 / 10.0	−4.7	−6.6 / 10.0	−8.3 / 20.0
51	−1.3 / 20.0	−3.5 / 10.0	−5.4	−7.4 / 10.0	−9.5 / 20.0 − 11.1 / 30.0
+50	−2.1 / 20.0	−4.4 / 10.0	−6.5	−8.7 / 10.0	−11.3 / 20.0 − 14.1 / 30.0
+82	−2.8 / 20.0	−4.3 / 10.0	−6.8	−8.1 / 10.0	−8.1 / 10.0
+87	+4.4 / 20.0	+0.7 / 10.0	−2.0	−4.5 / 10.0	−7.0 / 20.0
52	+5.3 / 20.0	+1.4 / 10.0	−1.6	−4.1 / 10.0	−6.3 / 20.0
+50	0.0 / 20.0	−3.1 / 10.0	−5.4	−7.7 / 10.0	−10.0 / 20.0
+73	−3.5 / 20.0	−5.5 / 10.0	−8.5	−10.2 / 10.0 − 11.1 / 20.0 − 13.6 / 30.0	
+83	−4.2 / 30.0 − 5.5 / 20.0	−10.3 / 10.0	−11.0	−12.8 / 10.0	−13.9 / 20.0 − 15.1 / 30.0
+90	−3.7 / 20.0	−7.7 / 10.0	−6.4	−8.4 / 10.0	−10.4 / 20.0
53	−5.0 / 20.0	−3.5 / 10.0	−3.0	−3.7 / 10.0	−5.7 / 20.0
+33.2	+10.1 / 20.0	+8.1 / 10.0	+6.1	+4.1 / 10.0	+2.4 / 20.0

	Left		C	Right	
53 + 50	+9.7 / 20.0	+8.0 / 10.0	+ 6.0	+4.2 / 10.0	+2.7 / 20.0
+76	+2.7 / 20.0	+4.5 / 10.0	+ 2.5	+0.9 / 10.0	−1.0 / 20.0
54			− 4.1		
+0.3	−1.0 / 20.0	−2.7 / 10.0	− 4.1	−5.3 / 10.0	−6.3 / 20.0
+20	+3.8 / 20.0	+2.1 / 10.0	+ 0.8	−0.3 / 10.0	−1.8 / 20.0
+40	+6.0 / 20.0	+4.4 / 10.0	+ 3.1	+1.6 / 10.0	0.0 / 20.0
+50	+6.7 / 20.0	+4.7 / 10.0	+ 3.4	+2.0 / 10.0	+0.3 / 20.0
55	+2.2 / 20.0	+1.3 / 10.0	+ 0.3	−1.0 / 10.0	−2.0 / 20.0
+10		0.9 / 10.0	− 0.8	−1.7 / 10.0	−2.7 / 20.0
+50	+5.1 / 20.0	+3.6 / 10.0	+ 2.1	+1.1 / 10.0	+ 0.2 / 20.0
+80.5	+6.6 / 20.0	+5.6 / 10.0	+ 4.6	+3.8 / 10.0	+3.0 / 20.0
56	+8.9 / 20.0	+8.1 / 10.0	+ 7.4	+6.2 / 10.0	+ 5.2 / 20.0
+30.2	+12.7 / 20.0	+11.7 / 10.0	+ 10.7	+9.7 / 10.0	+8.5 / 20.0
+50	+14.2 / 20.0	+13.6 / 10.0	+ 12.6	+11.1 / 10.0	+9.6 / 20.0
+80.2	+14.7 / 20.0	+13.1 / 10.0	+ 11.6	+9.5 / 10.0	+7.4 / 20.0
57	+15.1 / 20.0	+13.3 / 10.0	+ 11.3	+9.2 / 10.0	+6.4 / 20.0
+50	+12.2 / 20.0	+10.2 / 10.0	+ 8.3	+6.7 / 10.0	+3.8 / 20.0
+60	+9.2 / 20.0	+8.0 / 10.0	+ 6.9	+3.9 / 10.0	+2.0 / 20.0

	Left		C	Right	
57 + 70	+6.2 / 20.0	+4.2 / 10.0	+ 2.2	+0.8 / 10.0	0.0 / 20.0
+82	+3.4 / 20.0	+1.4 / 10.0	− 0.4	−4.7 / 10.0	−4.7 / 20.0
+88	+0.7 / 20.0	−2.7 / 10.0	− 4.8	−6.4 / 10.0	− 7.4 / 20.0
58 + 27	−1.1 / 20.0	−3.4 / 10.0	− 5.5	−8.6 / 10.0	−11.8 / 20.0	−13.2 / 30.0
+33	+0.6 / 30.0	−6.4 / 20.0	−7.7 / 10.0	− 9.1	−10.6 / 10.0	−11.4 / 20.0	−12.9 / 30.0
+43	−6.2 / 20.0	−6.9 / 10.0	− 8.1	−9.1 / 10.0	−10.1 / 20.0	−11.1 / 30.0
+50	+1.9 / 20.0	−0.7 / 10.0	− 2.8	−4.7 / 10.0	−5.8 / 20.0
+80.2	+11.2 / 20.0	+8.9 / 10.0	+ 6.9	+4.3 / 10.0	+2.6 / 20.0
59	+9.8 / 20.0	+7.8 / 10.0	+ 5.8	+3.8 / 10.0	+1.8 / 20.0
+50	+4.7 / 20.0	+2.7 / 10.0	+ 1.5	0.0 / 10.0	
60	+4.0 / 20.0	+2.6 / 10.0	+ 0.9	−0.6 / 10.0	−2.6 / 20.0
+50	+2.9 / 20.0	+1.4 / 10.0	− 0.1	−2.0 / 10.0	−3.7 / 20.0
+60		0.8 / 10.0	− 1.8	−3.6 / 10.0	−5.9 / 20.0
+88	+4.5 / 20.0	+2.9 / 10.0	+ 1.4	0.0 / 10.0	
61	+5.6 / 20.0	+3.6 / 10.0	+ 1.5	0.0 / 10.0	
+11.8	+5.6 / 20.0	+3.6 / 10.0	+ 1.6	−0.3 / 10.0	−2.3 / 20.0
+50	+6.5 / 20.0	+4.4 / 10.0	+ 2.1	−0.3 / 10.0	−1.4 / 20.0
62	+4.7 / 20.0	+4.7 / 10.0	+ 2.5	+0.5 / 10.0	−1.5 / 20.0

	Left		C	Right	
62 +37.5	+6.4 / 20.0	+4.4 / 10.0	+2.2	0.0 / 10.0	
+50	+7.5 / 20.0	+5.5 / 10.0	+3.0	+0.8 / 10.0	−1.4 / 20.0
63	+8.4 / 20.0	+6.7 / 10.0	+5.2	+3.7 / 10.0	+2.0 / 20.0
+26	+10.0 / 20.0	+6.8 / 10.0	+7.5	+5.7 / 10.0	+3.5 / 20.0
+50	+8.4 / 20.0	+6.9 / 10.0	+5.6	+4.5 / 10.0	+3.2 / 20.0
+75	+7.6 / 20.0	+5.3 / 10.0	+2.5	0.0 / 10.0	
64	+7.0 / 10.0	+5.3 / 10.0	+2.1	−1.1 / 10.0	−4.1 / 20.0
+23	+6.4 / 20.0	+3.7 / 10.0	+1.2	−1.7 / 10.0	−4.7 / 20.0
+50	+6.4 / 20.0	+4.0 / 10.0	+1.7	−0.4 / 10.0	−2.4 / 20.0
+75	+1.0 / 20.0	−1.3 / 10.0	−3.4	−5.5 / 10.0	−8.0 / 20.0
65	+4.9 / 20.0	+2.0 / 10.0	−0.3	−3.0 / 10.0	−5.6 / 20.0
+30	+6.8 / 20.0	+5.0 / 10.0	+2.4	−0.3 / 10.0	−2.8 / 20.0
+50	+4.4 / 20.0	+2.7 / 10.0	+0.5	−1.4 / 10.0	−3.1 / 20.0
66	+4.6 / 20.0	+2.8 / 10.0	+1.3	0.0 / 10.0	
+32.5	+4.7 / 20.0	+2.8 / 10.0	+0.9	−1.5 / 10.0	−3.8 / 20.0
+50	+5.3 / 20.0	+3.0 / 10.0	+0.3	−2.3 / 10.0	−4.6 / 20.0
+70	+4.0 / 10.0	+2.4 / 10.0	+0.6	−0.6 / 10.0	−3.1 / 20.0

	Left		C	Right	
66 +92	+3.6 / 20.0	+0.9 / 10.0	−2.0	−4.3 / 10.0	−6.6 / 20.0
67	+5.1 / 20.0	+3.1 / 10.0	0.0	−3.3 / 10.0	−5.1 / 20.0
+20	+8.2 / 20.0	+5.5 / 10.0	+2.8	0.0 / 10.0	
+50	+10.4 / 20.0	+6.8 / 10.0	+2.8	3.0 / 10.0	
68	+15.1 / 20.0	+12.5 / 10.0	+9.5	+6.6 / 10.0	+3.8 / 20.0
+08.5	+15.6 / 20.0	+12.8 / 10.0	+9.6	+7.1 / 10.0	+4.2 / 20.0
+33	+10.9 / 20.0	+8.4 / 10.0	+5.8	+3.8 / 10.0	+1.8 / 20.0
+50	+0.0 / 20.0	−1.6 / 10.0	−3.5	−4.8 / 10.0	−5.8 / 20.0
+72	−5.0 / 30.0	−6.7 / 20.0	−8.9 / 10.0	−10.9	−12.8 / 10.0	−14.5 / 20.0	−17.0 / 30.0
69	+0.5 / 20.0	−0.8 / 10.0	−3.0	−5.2 / 10.0	−7.7 / 20.0
+35	+8.2 / 20.0	+5.5 / 10.0	+3.1	+0.3 / 10.0	−2.3 / 20.0
+50	+8.8 / 20.0	+6.0 / 10.0	+1.4	−1.6 / 10.0	−3.8 / 20.0
+75	+4.3 / 20.0	+1.83 / 10.0	−0.9	−2.7 / 10.0	−4.9 / 20.0
70	+3.4 / 20.0	+1.3 / 10.0	+0.2	−1.8 / 10.0	−3.6 / 20.0
+42	+3.8 / 20.0	+1.8 / 10.0	−0.5	−2.5 / 10.0	−4.9 / 20.0
+50	+1.0 / 20.0	−0.2 / 10.0	−2.1	−4.6 / 10.0	−6.9 / 20.0
+76	−4.4 / 30.0	−5.8 / 20.0	−7.3 / 10.0	−9.1	−10.4 / 10.0	−11.6 / 20.0	−13.6 / 30.0
+86	−3.8 / 30.0	−5.8 / 20.0	−8.1 / 10.0	−10.1	−11.4 / 10.0	−12.6 / 20.0	−14.4 / 30.0

	Left		C	Right		
71	$-\frac{2.7}{20.0}$	$-\frac{5.0}{10.0}$	-7.6	$-\frac{10.6}{10.0}$	$-\frac{12.7}{20.0}$	$-\frac{14.2}{30.0}$
+50	$+\frac{8.2}{20.0}$	$+\frac{5.8}{10.0}$	+3.1	$+\frac{1.4}{10.0}$	$-\frac{1.0}{20.0}$	
+56	$+\frac{8.8}{20.0}$	$+\frac{6.2}{10.0}$	+3.7	$+\frac{1.2}{10.0}$	$-\frac{1.5}{20.0}$	
72	$+\frac{9.8}{20.0}$	$+\frac{7.2}{10.0}$	+4.9	$+\frac{2.5}{10.0}$	$\frac{0.0}{20.0}$	
+50	$+\frac{9.1}{20.0}$	$+\frac{6.5}{10.0}$	+4.0	$+\frac{1.6}{10.0}$	$-\frac{0.8}{20.0}$	
73	$+\frac{5.6}{20.0}$	$+\frac{2.8}{10.0}$	+0.3	$-\frac{1.7}{10.0}$	$-\frac{3.8}{20.0}$	
+35	$+\frac{3.3}{20.0}$	$+\frac{1.5}{10.0}$	-0.8	$-\frac{3.2}{10.0}$	$-\frac{5.4}{20.0}$	
+50	$+\frac{2.2}{20.0}$	$-\frac{.06}{10.0}$	-3.3	$-\frac{5.3}{10.0}$	$-\frac{7.7}{20.0}$	
+76	$-\frac{7.3}{30.0}$	$-\frac{10.3}{20.0}$ $-\frac{12.3}{10.0}$	-13.7	$-\frac{15.3}{10.0}$	$-\frac{16.8}{20.0}$	$-\frac{17.9}{30.0}$
74	$-\frac{2.0}{20.0}$	$-\frac{4.2}{10.0}$	-5.9	$-\frac{8.5}{10.0}$	$-\frac{10.5}{20.0}$	
+50	$+\frac{5.5}{20.0}$	$+\frac{3.0}{}$	+0.6	$-\frac{2.3}{10.0}$	$-\frac{5.2}{20.0}$	
75	$+\frac{5.3}{20.0}$	$+\frac{2.4}{10.0}$	-0.1	$-\frac{2.5}{10.0}$	$-\frac{4.5}{20.0}$	
+50	$+\frac{4.4}{20.0}$	$+\frac{1.9}{10.0}$	-0.6	$-\frac{2.9}{10.0}$	$-\frac{5.1}{20.0}$	
76	$+\frac{3.4}{20.0}$	$+\frac{0.9}{10.0}$	-1.2	$-\frac{3.2}{10.0}$	$-\frac{5.5}{20.0}$	
+50	$+\frac{2.4}{20.0}$	$+\frac{0.7}{10.0}$	-0.9	$-\frac{2.4}{10.0}$	$-\frac{3.1}{20.0}$	
77	$+\frac{2.5}{20.0}$	$+\frac{1.1}{10.0}$	0.0	$-\frac{1.2}{10.0}$	$-\frac{2.3}{20.0}$	
+50	$+\frac{3.0}{20.0}$	$+\frac{1.7}{10.0}$	+0.6	$-\frac{0.5}{10.0}$	$-\frac{2.1}{20.0}$	
78	$+\frac{4.1}{20.0}$	$+\frac{2.5}{10.0}$	+1.1	$-\frac{0.3}{10.0}$	$-\frac{1.8}{20.0}$	

	Left		C	Right	
78+50	$+\frac{5.4}{20.0}$	$+\frac{3.6}{10.0}$	+1.8	$-\frac{0.1}{10.0}$	$-\frac{3.7}{20.0}$
+75	$+\frac{5.2}{10.0}$	$+\frac{3.7}{10.0}$	+1.7	$-\frac{1.1}{10.0}$	$-\frac{3.5}{20.0}$
79	$+\frac{2.9}{20.0}$	$+\frac{1.3}{10.0}$	-1.0	$-\frac{3.1}{10.0}$	$-\frac{5.5}{20.0}$
+20	$+\frac{0.5}{20.0}$	$-\frac{1.0}{10.0}$	-2.7	$-\frac{4.7}{10.0}$	$-\frac{7.1}{20.0}$
+50	$+\frac{1.8}{10.0}$	$-\frac{0.1}{10.0}$	-2.1	$-\frac{4.0}{10.0}$	$-\frac{5.9}{20.0}$
+65	$+\frac{3.2}{20.0}$	$+\frac{2.1}{10.0}$	-0.1	$-\frac{1.0}{10.0}$	$-\frac{1.8}{20.0}$
+94.5	$+\frac{3.8}{20.0}$	$+\frac{2.4}{10.0}$	+0.4	$-\frac{0.2}{10.}$	

Forkner } aug. 6/02.
Davis }

Cross Section Notes West Point Loma

Road from Station 77 to Station 120

	Left		C	Right	
77	-5.4 / 20.0	-4.2 / 10.0	-2.7	-1.2 / 10.0	0.0 / 20.0
+50	-2.7 / 20.0	-1.5 / 10.0	-0.2	+1.6 / 10.0	+2.9 / 20.0
78		0.0 / 10.0	+1.7	+3.0 / 10.0	+4.2 / 20.0
+28.3	-0.4 / 20.0	+2.4 / 10.0	+4.7	+7.7 / 10.0	+9.4 / 20.0
+50	-0.3 / 20.0	+0.9 / 10.0	+2.4	+4.1 / 10.0	+6.5 / 20.0
79	-0.7 / 20.0	+0.3 / 10.0	+1.2	+2.3 / 10.0	+3.8 / 20.0
+20	0.0 / 20.0	+1.7 / 10.0	+3.1	+4.3 / 10.0	+5.4 / 20.0
+50	+0.7 / 20.0	+2.1 / 10.0	+3.3	+4.6 / 10.0	+5.8 / 20.0
+88	0.0 / 20.0	+1.2 / 10.0	+2.6	+4.3 / 10.0	+5.8 / 20.0
80	-0.3 / 20.0	+1.2 / 10.0	+2.4	+4.1 / 10.0	+5.4 / 20.0
+25	+1.0 / 20.0	+2.0 / 10.0	+2.0	+2.8 / 10.0	+3.8 / 20.0
+41			+5.0		
+50	+2.4 / 20.0	+3.2 / 10.0	+4.6	+5.7 / 10.0	+6.6 / 20.0
81	+1.0 / 20.0	+2.4 / 10.0	+3.0	+3.0 / 10.0	+4.3 / 20.0
+50	-1.5 / 20.0	-0.5 / 10.0	+0.8	+2.8 / 10.0	+4.5 / 20.0

	Left		C	Right	
81+81	-1.3 / 20.0	+0.7 / 10.0	+2.4	+2.9 / 10.0	+3.3 / 20.0
82	0.0 / 20.0	+1.3 / 10.0	+1.8	+1.8 / 10.0	+1.8 / 20.0
+50	1.4 / 10.0	-1.4 / 10.0	-1.4	-1.4 / 10.0	-1.2 / 20.0
+75			-1.8		
83	-1.8 / 20.0	-0.9 / 10.0	+0.1	+1.1 / 10.0	+2.1 / 20.0
+50	+3.4 / 20.0	+4.2 / 10.0	+5.2	+6.2 / 10.0	+7.0 / 20.0
+86	+9.5 / 20.0	+9.5 / 10.0	+9.5	+9.5 / 10.0	+9.5 / 10.0
84	+9.3 / 20.0	+8.8 / 10.0	+8.8	+8.8 / 10.0	+8.9 / 10.0
+50	+4.2 / 20.0	+3.1 / 10.0	+2.5	+1.6 / 10.0	+1.6 / 20.0
+72.8		0.0 / 10.0	-0.7	-1.3 / 10.0	-1.5 / 20.0
85	+3.3 / 20.0	+1.2 / 10.0	-0.9	-3.0 / 10.0	-5.0 / 20.0
+50	+2.8 / 20.0	+1.0 / 10.0	-1.4	-3.8 / 10.0	-6.3 / 20.0
86	+2.5 / 20.0	+0.9 / 10.0	-1.0	-2.7 / 10.0	-5.1 / 20.0
+50	+2.6 / 20.0	+1.1 / 10.0	-0.8	-2.8 / 10.0	-3.4 / 20.0
87+04.2	+1.5 / 20.0	+0.3 / 10.0	-1.1	-2.4 / 10.0	-4.5 / 20.0
+50	+2.0 / 20.0	+0.7 / 10.0	-0.4	-1.9 / 10.0	-3.4 / 20.0
+79.2	+3.1 / 20.0	+1.4 / 10.0	-0.4	-1.7 / 10.0	-3.7 / 20.0
88	+2.5 / 20.0	+1.2 / 10.0	-0.4	-1.9 / 10.0	-3.5 / 20.0

	Left		C	Right	
88 +50	+2.4 / 20.0	+1.7 / 10.0	+0.2	−0.8 / 10.0	−2.0 / 20.0
+84.5	3.8 / 20.0	+2.5 / 10.0	+1.0	0.0 / 10.0	
89	+3.4 / 20.0	+1.6 / 10.0	−0.1	−1.5 / 10.0	−2.8 / 20.0
+50	+3.5 / 20.0	+2.0 / 10.0	+0.5	−1.0 / 10.0	−2.0 / 20.0
90	+3.8 / 20.0	+2.1 / 10.0	+0.6	−0.9 / 10.0	−1.9 / 20.0
+50	+3.6 / 20.0	+2.1 / 10.0	+0.8	−0.5 / 10.0	−1.9 / 20.0
91		0.0 / 10.0	−1.4	−2.3 / 10.0	−3.4 / 20.0
+31	−6.5 / 20.0	−4.9 / 10.0	−2.9	−2.9 / 10.0	−2.9 / 20.0
+50	−7.0 / 30.0	−8.0 / 20.0	−8.4 / 10.0 −6.8	−6.8 / 10.0	−6.8 / 20.0
+90	−9.0 / 30.0	−10.0 / 20.0	−10.8 / 10.0 −12.1	−12.8 / 10.0 −12.8 / 20.0	−12.8 / 30.0
92			−9.1		
+17	+4.0 / 20.0	+1.9 / 10.0	−2.0	−5.5 / 10.0	−8.5 / 20.0
+25	+4.0 / 20.0	+1.7 / 10.0	−0.2	−3.0 / 10.0	−7.0 / 20.0
+50	+4.0 / 20.0	+3.1 / 10.0	+1.9	0.0 / 10.0	
93	+3.0 / 20.0	+1.5 / 10.0	+0.3	0.0 / 10.0	
+50	+1.7 / 20.0	+0.5 / 10.0	−0.7	−1.7 / 10.0	−2.7 / 20.0
94	+2.1 / 20.0	+0.6 / 10.0	−0.1	−1.2 / 10.0	−2.4 / 20.0
+26		0.0 / 10.0	−1.3	−2.5 / 10.0	−4.0 / 20.0

	Left		C	Right	
94 +35.5	+2.5 / 20.0	+1.0 / 10.0	−0.4	−2.0 / 10.0	−3.0 / 20.0
+50	+3.5 / 20.0	+2.0 / 10.0	+0.8	−1.0 / 10.0	−2.5 / 20.0
95	+4.1 / 20.0	+2.9 / 10.0	+1.7	0.0 / 10.0	
+50	+2.0 / 20.0	+0.5 / 10.0	−1.0	−2.5 / 10.0	−3.6 / 20.0
+67.3	+0.6 / 20.0	−0.7 / 10.0	−1.7	−3.0 / 10.0	−4.5 / 20.0
96		0.0 / 10.0	−0.4	−1.4 / 10.0	−3.0 / 20.0
+50	+3.5 / 20.0	+2.0 / 10.0	+1.1	0.0 / 10.0	
+70	+3.2 / 20.0	+2.0 / 10.0	+1.4	0.0 / 10.0	
97	+2.8 / 20.0	+0.8 / 10.0	−0.2	−1.2 / 10.0	−2.0 / 20.0
+15	+3.0 / 20.0	+0.5 / 10.0	−0.9	−1.9 / 10.0	−1.9 / 20.0
+40	+2.5 / 20.0	+1.1 / 10.0	−0.3	−2.0 / 10.0	−3.0 / 20.0
+50	+2.8 / 20.0	+1.0 / 10.0	−0.5	−2.0 / 10.0	−3.5 / 20.0
98	+5.5 / 20.0	+3.0 / 10.0	+1.0	−1.2 / 10.0	−3.2 / 20.0
+50	+2.0 / 20.0	+1.5 / 10.0	0.0	−2.0 / 10.0	−4.4 / 20.0
99	+1.1 / 20.0	−0.5 / 10.0	−2.0	−3.4 / 10.0	−4.8 / 20.0
+50	+2.6 / 20.0	+0.6 / 10.0	−0.6	−2.1 / 10.0	−3.9 / 20.0
+85.6	+2.1 / 20.0	+0.9 / 10.0	−0.7	−2.2 / 10.0	−3.7 / 20.0
100	+3.1 / 20.0	+1.6 / 10.0	0.0	−2.0 / 10.0	−3.9 / 20.0

	Left		C	Right	
100 +50	+2.7 / 20.0	+0.7 / 10.0	−0.3	−2.0 / 10.0	−3.5 / 20.0
101	+2.4 / 20.0	+0.8 / 10.0	−0.8	−2.6 / 10.0	−4.1 / 20.0
+50	+3.4 / 20.0	+1.9 / 10.0	+0.4	−1.0 / 10.0	−2.5 / 20.0
102	+2.0 / 20.0	+1.0 / 10.0	0.0	−1.0 / 10.0	−2.1 / 20.0
+50	+1.6 / 20.0	+0.6 / 10.0	−0.5	−1.6 / 10.0	−3.1 / 20.0
+72	+2.4 / 20.0	+1.2 / 10.0	−0.3	−1.0 / 10.0	−2.2 / 20.0
103	+1.2 / 20.0	+0.7 / 10.0	−0.5	−1.8 / 10.0	−2.8 / 20.0
+50	+1.0 / 20.0	+0.6 / 10.0	−0.4	−1.3 / 10.0	−2.4 / 20.0
104	+1.4 / 20.0	+0.5 / 10.0	−0.5	−1.4 / 10.0	−1.7 / 20.0
+43	+1.5 / 20.0	+0.8 / 10.0	+0.1	0.0 / 10.0	
+63	+2.0 / 20.0	+1.5 / 10.0	+1.0	+0.3 / 10.0	0.0 / 20.0
105	+1.0 / 20.0	+0.4 / 10.0	−0.2	−0.2 / 10.0	−0.2 / 10.0
+50	+1.5 / 20.0	+0.6 / 10.0	−0.2	−1.0 / 10.0	−2.0 / 20.0
106	+2.5 / 20.0	+1.5 / 10.0	+0.2	−0.8 / 10.0	−1.4 / 20.0
+50	+2.1 / 20.0	+1.8 / 10.0	+1.1	−0.4 / 10.0	−2.0 / 20.0
+74	+2.0 / 20.0	+1.3 / 10.0	+0.3	0.0 / 10.0	
107	+2.6 / 20.0	+0.4 / 10.0	−0.2	−1.6 / 10.0	−2.7 / 20.0
+50		0.0 / 10.0	−0.6	−1.5 / 10.0	−2.7 / 20.0

	Left		C	Right	
108	+2.0 / 20.0	+0.8 / 10.0	0.0	−1.1 / 10.0	−2.1 / 20.0
+50	+2.4 / 20.0	+1.2 / 10.0	+0.1	−1.0 / 10.0	−2.2 / 20.0
109	+1.6 / 20.0	+0.4 / 10.0	−0.8	−2.0 / 10.0	−3.3 / 20.0
+39.5	+1.6 / 20.0	+0.9 / 10.0	0.0	−0.8 / 10.0	−2.0 / 20.0
+50	+1.8 / 20.0	+0.7 / 10.0	0.0	−0.6 / 10.0	−2.5 / 20.0
110		0.0 / 10.0	−0.6	−1.2 / 10.0	−2.0 / 20.0
+50	+1.3 / 20.0	+0.3 / 10.0	−0.5	−1.3 / 10.0	−2.5 / 20.0
111	+1.4 / 20.0	+0.4 / 10.0	−0.6	−1.5 / 10.0	−2.5 / 20.0
+50	+1.6 / 20.0	+0.7 / 10.0	−0.4	−1.2 / 10.0	−2.4 / 20.0
112		0.0 / 10.0	−0.7	−1.3 / 10.0	−2.0 / 20.0
+50	0.0 / 20.0	−0.3 / 10.0	−0.8	−1.4 / 10.0	−2.0 / 20.0
113	−1.4 / 20.0	−1.4 / 10.0	−1.4	−1.4 / 10.0	−1.4 / 20.0
+50	0.0 / 20.0	−1.0 / 10.0	−1.9	−1.9 / 10.0	−1.9 / 20.0
114 +01.7	−0.6 / 10.0	−1.6 / 10.0	−1.8	−1.3 / 10.0	−1.3 / 10.0
+50	−3.1 / 20.0	−2.1 / 10.0	−1.4	−0.4 / 10.0	+0.5 / 20.0
115	−2.0 / 20.0	−1.6 / 10.0	−1.0	−0.3 / 10.0	+0.8 / 20.0
+50	−2.5 / 20.0	−1.8 / 10.0	−0.8	0.0 / 10.0	
116	−2.0 / 20.0	−1.9 / 10.0	−1.3	−0.7 / 10.0	0.0 / 20.0

(7)

	Left		C	Right	
116 +50	$\frac{-1.5}{20.0}$	$\frac{-1.0}{10.0}$	−0.7	$\frac{0.0}{10.0}$	
117	$\frac{-2.0}{20.0}$	$\frac{-1.6}{10.0}$	−0.9	$\frac{0.0}{10.0}$	
+50		$\frac{0.0}{10.0}$	+0.6	$\frac{+1.2}{10.0}$	$\frac{+2.0}{20.0}$
118	$\frac{-1.5}{20.0}$	$\frac{-0.7}{10.0}$	+0.1	$\frac{+0.8}{10.0}$	$\frac{+1.4}{20.0}$
+50	$\frac{-1.6}{20.0}$	$\frac{-1.4}{10.0}$	−1.0	$\frac{0.0}{10.0}$	
119	$\frac{+0.7}{20.0}$	$\frac{+0.7}{10.0}$	+0.7	$\frac{+0.7}{10.0}$	$\frac{+0.7}{20.0}$
+32	$\frac{-2.2}{10.0}$	$\frac{-2.2}{10.0}$	−2.2	$\frac{-1.0}{10.0}$	$\frac{0.0}{20.0}$
+50	$\frac{-1.4}{10.0}$	$\frac{-1.4}{10.0}$	−1.4	$\frac{-0.6}{10.0}$	$\frac{0.0}{20.0}$
120	$\frac{-2.0}{20.0}$	$\frac{-1.3}{10.0}$	−0.8	$\frac{-0.4}{10.0}$	$\frac{+0.4}{20.0}$

Left	C	Right

Levels for Sewers in blocks 77 and 78 - of Seaman and Choatels Add. and to connect same with 9th Ward sewer system.

B.M. Nozzle of Hydrant at 30th and M. streets. = 76.57#

9/5/02 Levels in alley bet 29th + 30th L + M. + M - N. St

Alley in Block #78

Sta	+	−	D.H	Rod	Elev
	0.75		77.32		76.57 = B.M.
E. line 29				4.00	73.3
+50				4.40	72.9
100				4.75	72.6
+50				5.55	71.8
2				5.75	71.6
+50				5.70	71.6
3				5.75	71.6
+50				6.10	71.2
4				5.80	71.5
+50				5.27	72.1
5				5.22	72.1
+50				4.78	72.5
W. line 30th				4.52	72.8
C. of 30th		30th St		4.30	73.0
+50				3.92	73.4
1				3.32	74.0

and on 30th St. to connection with alley south of N. St.

Sta	+	−	D.H.	Rod	Elev
+50				2.32	75.0
0	4.24	1.78	79.78		75.54
2				4.80	75.0
+50				4.60	75.2
3				4.55	75.2
+50				5.00	74.8
4				6.35	73.4
+50				7.30	72.5
5				8.00	71.8
+50				7.82	72.0
R.R. Cuyamaca				6.32	73.5
R.R. Belt Motor				5.80	74.0
6				8.50	71.3
+50				8.20	71.6
7				7.90	71.9
+50				7.00	72.8

alley in Block # 79
29th to 30th

Sta	+	−	B.H.	Rod	Elev.
E. line 29th			79.78	7.30	72.5
+50				7.20	72.6
1				7.50	72.3
+50				7.65	72.1
2				7.60	72.2
+50				7.50	72.3
3				6.85	72.9
+50				6.32	73.5
4				5.78	74.0
+50				5.45	74.3
5				5.60	74.2
+50				5.35	74.4
6				5.72	74.1
C. of 30th				6.07	73.7

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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	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

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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.

Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links
o		o		o		o	
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