1638

LIETZ

LEVEL 3003

No. 772

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	32.79	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.		

Published by the A. LIETZ Co., San Francisco, Cal.

MADE IN U. S. A.

MICROFILMED
DEC 26 1961

Quality Evidenced Since 1882.

Standard Tripod Connection

LIETZ STANDARD ENGINEERS' TRANSIT

With U Shaped Standards

No. 5E with 6¼" limb. No. 11E with 5" limb.

Furnished with either Internal or External Focusing Telescope.

1638

CITY ENGINEER

TABLE OF STADIA REDUCTIONS

For a Constant of 100.

ROD VERTICAL.

Min.	0°		1°		2°		3°	
	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff Elev.	Hor Dist.	Diff. Elev.
0'	100.00	.00	99.97	1.74	99.88	3.49	99.73	5.23
2	100.00	.06	99.97	1.80	99.87	3 55	99.72	5.28
4	100.00	.12	99.97	1.86	99.87	3.60	99.71	5.34
6	100.00	.17	99.96	1.92	99.87	3.66	99.71	5.40
8	100.00	.23	99.96	1.98	99.86	3.72	99.70	5.46
10	100.00	.29	99.96	2.04	99.86	3.78	99.69	5.52
12	100.00	.35	99.96	2.09	99.85	3.84	99.69	5.57
14	100.00	.41	99.95	2.15	99.85	3.90	99.68	5.63
16	100.00	.47	99.95	2.21	99.84	3.95	99.68	5.69
18	100.00	.52	99.95	2.27	99.84	4.01	99.67	5.75
20	100.00	.58	99.95	2.33	99.83	4.07	99.66	5.80
22	100.00	.64	99.94	2.38	99.83	4.13	99.66	5.86
24	100.00	.70	99.94	2.44	99.82	4.18	99.65	5.92
26	99.99	.76	99.94	2.50	99.82	4.24	99.64	5.98
28	99.99	.81	99.93	2.56	99.81	4.30	99.63	6.04
30	99.99	.87	99.93	2.62	99.81	4.36	99.63	6.09
32	99.99	.93	99.93	2.67	99.80	4.42	99.62	6.15
34	99.99	.99	99.93	2.73	99.80	4.48	99.62	6.21
36	99.99	1.05	99.92	2.79	99.79	4.53	99.61	6.27
38	99.99	1.11	99.92	2.85	99.79	4.59	99.60	6.33
40	99.99	1.16	99.92	2.91	99.78	4.65	99.59	6.38
42	99.99	1.22	99.91	2.97	99.78	4.71	99.59	6.44
44	99.98	1.28	99.91	3.02	99.77	4.76	99.58	6.50
46	99.98	1.34	99.90	3.08	99.77	4.82	99.57	6.56
48	99.98	1.40	99.90	3.14	99.76	4.88	99.56	6.61
50	99.98	1.45	99.90	3.20	99.76	4.94	99.56	6.67
52	99.98	1.51	99.89	3.26	99.75	4.99	99.55	6.73
54	99.98	1.57	99.89	3.31	99.74	5.05	99.54	6.78
56	99.97	1.63	99.89	3.37	99.74	5:11	99.53	6.84
58	99.97	1.69	99.88	3.43	99.73	5.17	99.52	6.90
60	99.97	1.74	99.88	3.49	99.73	5.23	99.51	6.96
c= .75	.75	.01	.75	.02	.75	.03	.75	.05
c=1.15	1.15	.01	1.15	.03	1.15	.05	1.15	.07
c=1.90	1.90	.02	1.90	.05	1.90	.08	1.90	.12

Min.	4°		5°		6°		7°	
	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff. Elev.	Hor. Dist	Diff. Elev.	Hor Dist.	Diff. Elev.
0'	99.51	6.96	99.24	8.68	98.91	10.40	98.51	12.10
2	99.51	7.02	99.23	8.74	98.90	10.45	98.50	12.15
4	99.50	7.07	99.22	8.80	98.88	10.51	98.48	12.21
6	99.49	7.13	99.21	8.85	98.87	10.57	98.47	12.26
8	99.48	7.19	99.20	8.91	98.86	10.62	98.46	12.32
10	99.47	7.25	99.19	8.97	98.85	10.68	98.44	12.38
12	99.46	7.30	99.18	9.03	98.83	10.74	98.43	12.43
14	99.46	7.36	99.17	9.08	98.82	10.79	98.41	12.49
16	99.45	7.42	99.16	9.14	98.81	10.85	98.40	12.55
18	99.44	7.48	99.15	9.20	98.80	10.91	98.39	12.60
20	99.43	7.53	99.14	9.25	98.78	10.96	98.37	12.66
22	99.42	7.59	99.13	9.31	98.77	11.02	98.36	12.72
24	99.41	7.65	99.11	9.37	98.76	11.08	98.34	12.77
26	99.40	7.71	99.10	9.43	98.74	11.13	98.33	12.83
28	99.39	7.76	99.09	9.48	98.73	11.19	98.31	12.88
30	99.38	7.82	99.08	9.54	98.72	11.25	98.29	12.94
32	99.38	7.88	99.07	9.60	98.71	11.30	98.28	13.00
34	99.37	7.94	99.06	9.65	98.69	11.36	98.27	13.05
36	99.36	7.99	99.05	9.71	98.68	11.42	98.25	13.11
38	99.35	8.05	99.04	9.77	98.67	11.47	98.24	13.17
40	99.34	8.11	99.03	9.83	98.65	11.53	98.22	13.22
42	99.33	8.17	99.01	9.88	98.64	11.59	98.20	13.28
44	99.32	8.22	99.00	9.94	98.63	11.64	98.19	13.33
46	99.31	8.28	98.99	10.00	98.61	11.70	98.17	13.39
48	99.30	8.34	98.98	10.05	98.60	11.76	98.16	13.45
50	99.29	8.40	98.97	10.11	98.58	11.81	98.14	13.50
52	99.28	8.45	98.96	10.17	98.57	11.87	98.13	13.56
54	99.27	8.51	98.94	10.22	98.56	11.93	98.11	13.61
56	99.26	8.57	98.93	10.28	98.54	11.98	98.10	13.67
58	99.25	8.63	98.92	10.34	98.53	12.04	98.08	13.73
60	99.24	8.68	98.91	10.40	98.51	12.10	98.06	13.78
c= .75	.75	.06	.75	.07	.75	.08	.74	.10
c=1.15	1.15	.09	1.14	.11	1.14	.13	1.14	.15
c=1.90	1.89	.15	1.89	.18	1.89	.21	1.88	.25

Published by the A. LIETZ Co., San Francisco, Cal.

Table of Stadia Reductions.—Continued.

Min.	24°		25°		26°		27°	
	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff Elev.	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff. Elev.
0'	83.46	37.16	82.14	38.30	80.78	39.40	79.39	40.45
2	83.41	37.20	82.09	38.34	80 74	39.44	79.34	40.49
4	83.37	37.23	82.05	38.38	80.69	39.47	79.30	40.52
6	83.33	37.27	82.01	38.41	80.65	39.51	79.25	40.55
8	83.28	37.31	81.96	38 45	80 60	39.54	79.20	40.59
10	83.24	37.35	81.92	38.49	80 55	39.58	79.15	40.62
12	83.20	37.39	81.87	38.53	80.51	39.61	79.11	40.66
14	83.15	37.43	81.83	38.56	80.46	39.65	79.06	40.69
16	83.11	37.47	81.78	38.60	80.41	39.69	79.01	40.72
18	83.07	37.51	81.74	38.64	80.37	39.72	78.96	40.76
20	83.02	37.54	81.69	38.67	80.32	35.76	78 92	40.79
22	82.98	37.58	81.65	38.71	80.28	39.79	78.87	40.82
24	82.93	37.62	81.60	38 75	80.23	39.83	78.82	40.86
26	82.89	37.66	81.56	38.78	80.18	39.86	78.77	40.89
28	82.85	37.70	81.51	38.82	80.14	39.90	78.73	40.92
30	82.80	37 74	81.47	38 86	80.09	39.93	78.68	40.96
32	82.76	37.77	81.42	38.89	80 04	39.97	78.63	40.99
34	82.72	37.81	81.38	38.93	80.00	40.00	78.58	41.02
36	82.67	37.85	81 33	38.97	79.95	40.04	78.54	41 06
38	82.63	37.89	81 28	39.00	79.90	40.07	78.49	41.09
40	82.58	37.93	81 24	39 04	79.86	40.11	78 44	41.12
42	82 54	37.96	81.19	39 08	79 81	40.14	78.39	41.16
44	82.49	38.00	81.15	39 11	79.76	40.18	78.34	41.19
46	82 45	38.04	81.10	39.15	79 72	40.21	78.30	41.22
48	82 41	38 08	81 06	39.18	79.67	40.24	78.25	41.26
50	82.36	38 11	81 01	39.22	79.62	40.28	78 20	41.29
52	82.32	38.15	80 97	39.26	79.58	40.31	78 15	41.32
54	82.27	38.19	80.92	39.29	79.53	40 35	78.10	41.35
56	82.23	38.23	80.87	39.33	79.48	40.38	78 06	41.39
58	82.18	38.26	80.83	39.36	79.44	40.42	78.01	41.42
60	82 14	38.30	80.78	39.40	79 39	40.45	77 96	41 45
c= .75	68	31	.68	32	67	.33	.66	.35
c=1.15	1.05	48	1.04	50	1.03	51	1 02	.53
c=1 90	1.73	79	1.72	82	1.70	85	1 69	.88

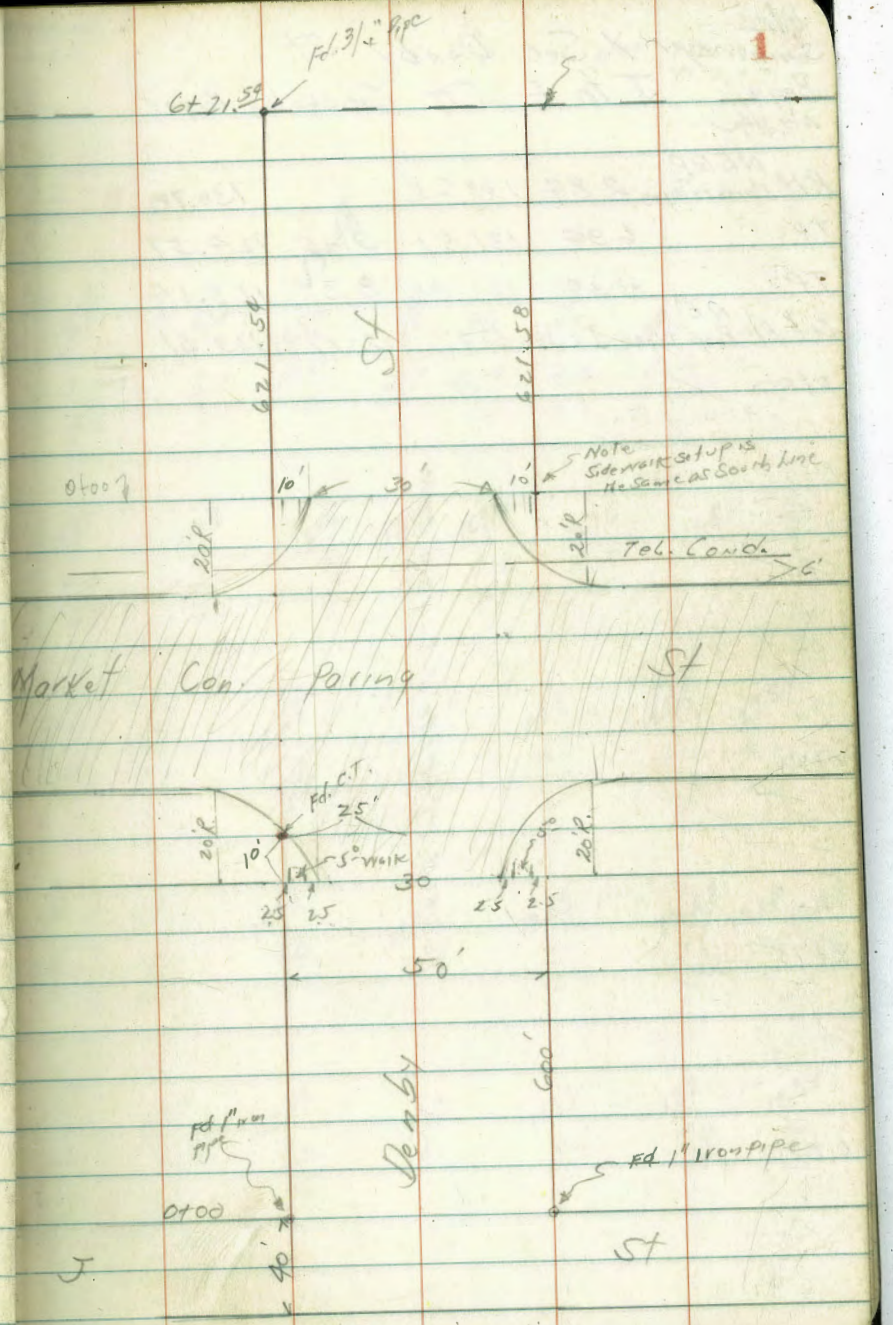
Min.	28°		29°		30°	
	Hor. Dist	Diff. Elev.	Hor. Dist	Diff Elev.	Hor. Dist.	Diff. Elev.
0'	77 96	41 45	76.50	42 40	75.00	43 30
2	77.91	41.48	76.45	42.43	74.95	43.33
4	77.86	41 52	76.40	42.46	74.90	43.36
6	77.81	41.55	76 35	42.49	74.85	43 39
8	77.77	41 58	76.30	42.53	74 80	43.42
10	77.72	41.61	76.25	42.56	74.75	43.45
12	77.67	41.65	76.20	42.59	74.70	43.47
14	77.62	41.68	76.15	42.62	74.65	43.50
16	77.57	41.71	76.10	42.65	74.60	43 53
18	77.52	41.74	76.05	42 68	74.55	43 56
20	77.48	41.77	76.00	42.71	74.49	43.50
22	77.42	41.81	75.95	42 74	74.44	43 62
24	77.38	41.84	75.90	42.77	74.39	43 65
26	77.33	41.87	75.85	42.80	74.34	43.67
28	77.28	41.90	75.80	42.83	74.29	43 70
30	77.23	41.93	75.75	42.86	74.24	43 73
32	77.18	41 97	75.70	42.89	74.19	43.76
34	77.13	42 00	75.65	42.92	74.14	43 79
36	77.09	42.03	75.60	42.95	74.09	43.82
38	77.04	42.06	75.55	42 98	74.04	43 84
40	76.99	42.09	75.50	43.01	73.99	43.87
42	76.94	42.12	75 45	43 04	73.93	43 90
44	76.89	42.15	75.40	43 07	73 88	43.93
46	76.84	42.19	75.35	43.10	73 83	43 95
48	76.79	42 22	75.30	43.13	73.78	43.98
50	76.74	42.25	75 25	43.16	73.73	44 01
52	76.69	42.28	75 20	43.18	73.68	44 04
54	76.64	42.31	75.15	43.21	73.33	44 07
56	76.59	42.34	75.10	43.24	73.58	44 09
58	76.55	42.37	75.05	43 27	73.52	44.12
60	76.50	42.40	75.00	43 30	73.47	44.15
c= .75	.66	.36	.65	.37	.65	38
c=1.15	1 01	55	1.00	.57	0.99	.58
c=1.90	1.67	91	1.65	.94	1 64	.95

Published by the A. Lietz Co, San Francisco, Cal.

X. Sec DENBY St. 1- 13
1- - J. St 14. 30
1- - Morrison St. Market ET 31 - 35
1- - 42ND 36 40
Mission Valley Rd. Ext #1

Bliss
Sommermyer
Begg
5/4/92
Finished

Sketch of Denby St from the North Line of J. to 62/54 North of the North Line of Market.



Bliss
Sommermyer X Sec. Denby St.
Begg J. to F. Sts See Sketch Page 1
4/27/42

BM N.E.B.P. Market & Toyne	2.84	133.62		130.78	OUT
TP	6.94	131.51	9.05	124.57	
TP	8.34	131.48	8.37	123.14	
Set BM N.E. Prop pipe J. & Denby			2.17	129.31	

Reduced & Plotted 5-6-42 CBH

0+00							
0+25							
0+50							
0+75							
0+90							

Indexed C.S.K.

2

	L		℄			Rt	
			131.48				
	127.6 / 3.9 / 35	127.6 / 3.9 / 25	128.0 / 3.5 / 15	128.8 / 2.7	129.1 / 2.4 / 15	129.2 / 2.3 / 25	129.1 / 2.4 / 35
	127.1 / 4.4 / 35	127.2 / 4.3 / 25	127.2 / 4.3 / 15	127.7 / 3.8	127.6 / 3.9 / 15	127.6 / 3.9 / 25	128.0 / 3.5 / 35
	126.5 / 5.0 / 35	126.7 / 4.8 / 25	126.7 / 4.8 / 15	126.9 / 4.6	126.8 / 4.7 / 15	126.5 / 5.0 / 25	127.2 / 4.3 / 35
	124.8 / 6.7 / 35	124.9 / 6.6 / 25	125.1 / 6.4 / 15	124.7 / 6.8	124.5 / 7.0 / 15	124.3 / 7.2 / 25	124.0 / 7.5 / 30	124.4 / 7.1 / 35
	122.3 / 9.2 / 40	123.4 / 8.1 / 25	124.3 / 7.2 / 15	123.3 / 8.2	123.1 / 8.4 / 15	122.7 / 8.8 / 25	123.0 / 8.5 / 35

Station	⊼ 1314.8	Lt			¢		Rt		
1+00	121.1 10.4/40	122.1 9.4/25	122.6 8.9/15		122.2 9.3	122.1 9.4/15	122.0 9.5/25		122.4 9.1/40
1+25	120.3 11.2/40	118.8 12.7/25	118.4 13.1/23	118.6 12.9/15	119.5 12.0	120.0 11.5/15	120.4 11.1/23	121.5 10.0/25	122.5 9.0/40
1+40	117.6 13.9/50	117.5 14.0/38	118.1 13.4/25	118.7 12.8/15	119.3 12.2	120.1 11.4/15	120.2 11.3/25		120.9 10.6/50
1+55	118.1 13.4/50	118.5 13.0/25	119.0 12.5/15		119.8 11.7	120.0 11.5/15	120.5 11.0/25		120.9 10.6/50
1+80	122.9 8.6/40	121.9 9.6/25	121.1 10.4/15		120.3 11.2	120.3 11.2/15	120.5 11.0/25		121.2 10.3/50
2+00	126.1 5.4/40	123.7 7.8/25	122.9 8.6/15		121.5 10.0	120.8 10.7/15	120.3 11.2/25	120.4 11.1/40	121.4 10.1/50
2+15	126.5 5.0/40	125.0 6.5/25	123.9 7.6/22	123.6 7.9/15	122.4 9.1	122.0 9.5/15	121.2 10.3/25		121.0 10.5/50

131.48

	Lt			&		Rt	
2+95	126.9 4.6 35	126.1 5.4 25	125.4 6.1 23	125.4 6.1 15	124.7 6.8	124.7 6.8 15	123.5 8.0 25	123.4 9.1 50
2+75	126.2 5.8 35	126.3 5.2 25	126.6 4.9 15		126.7 4.8	126.0 5.5 15	125.6 5.9 19	125.1 6.4 22
3+00	127.6 3.9 40	127.6 3.9 25	127.1 4.4 15	127.2 4.3 10	128.0 3.5	128.1 3.4 15	126.7 4.8 23	126.8 4.7 25
3+20	127.3 4.2 40	128.1 3.4 25	127.9 3.6 15		128.1 3.4	128.4 3.1 15	128.0 3.5 20	127.7 3.8 25
3+35	128.1 3.6 40	128.4 3.1 25	128.3 3.2 15		127.7 3.8	128.1 3.4 15	128.3 3.2 25	128.5 3.0 40
3+50	127.9 3.6 35	127.7 3.8 25	127.7 3.8 15		127.9 3.6	128.4 3.1 15	128.4 3.1 25	128.7 2.8 35

		13148			
3+75					
4+00					
T.P.	471	131.34	4.85	126.63	
4+30					
4+50					
4+75					
5+00					

	Lt		℄		Rt	
	127.4 9.1 40	126.7 4.8 25	127.1 4.4 15	128.1 3.4	129.2 2.3 15	128.9 2.6 25	129.0 2.5 35
	123.0 8.5 50	124.9 6.5 25	126.0 5.5 15	127.5 4.0	128.4 3.1 15	128.5 3.0 25	129.6 1.9 35
131.34							
	120.4 10.9 50	122.2 9.1 25	123.8 7.5 15	125.5 5.8	126.3 5.0 15	127.4 3.9 25	128.9 2.4 35
	120.0 11.3 50	121.4 9.9 25	123.4 7.9 15	124.5 6.8	126.1 5.2 15	127.2 4.1 25	129.1 2.2 35
	119.6 11.7 50	121.8 9.5 25	122.1 9.2 15	123.5 7.8	125.0 6.3 15	126.5 4.8 25	128.1 3.2 35
	119.9 12.4 50	119.5 11.8 25	120.8 10.5 15	122.1 9.2	123.7 7.6 15	12.58 5.5 25	127.8 3.5 35

		$\bar{\pi}$ 131.34					L			℄		R			
5+10							118.0	118.5	119.9	121.8	122.9		124.7	127.5	
							13.3	12.8	11.4	9.5	8.4		6.6	3.8	
							50	25	15		15		25	35	
5+25							118.1	118.5	119.0	120.3	121.8	123.5	124.6	126.5	
							13.2	12.8	12.3	11.0	9.5	7.8	6.7	4.8	
							50	25	15		15	22	25	35	
5+40							118.3	118.7	118.6	119.4	122.5		121.3	123.2	
							13.0	12.6	12.7	11.9	8.8		10.0	7.1	
							50	25	15		15		25	35	
5+60							118.7	118.9	118.9	119.1	119.4		119.7	120.6	
							12.6	12.4	12.4	12.2	11.9		11.6	10.7	
							50	25	15		15		25	35	
5+70							120.9	117.5	120.8	119.7	119.7	119.6	120.0	120.6	
							10.4	13.8	10.5	11.6	11.6	11.7	11.3	10.7	
							45	35	25	15		15	25	40	
5+76							120.8	118.3	118.7	122.0	122.1	121.6	120.7	119.9	120.2	121.1
							10.5	13.0	12.6	9.3	9.2	9.7	10.6	11.4	11.1	10.2
							40	35	25	18	15		15	20	25	40

						L	℄	R	25 / 35 / 25
		131.34							
5+82.8	outletend 30" Drain				See sketch where	116.88 Flowline 144.6 / 21.5			
5+86	outlet end 30" Drain				See sketch	116.93 Flowline 144.1 / 25			
5+87						121.5 / 9.8 / 35	118.4 / 12.9 / 25	121.5 / 9.8 / 15	123.1 / 8.2 / 10	123.0 / 8.3	122.0 / 9.3 / 15	121.3 / 10.0 / 25	129.3 / 9.0 / 35
5+98						124.5 / 6.8 / 35	124.0 / 7.3 / 25	124.2 / 7.1 / 15	124.2 / 7.1	123.2 / 8.1 / 15	123.2 / 8.1 / 25	123.7 / 7.6 / 35	
6+00	So. Line of Market				See sketch	124.7 / 6.6 / 35	120.1 / 11.2 / 25	124.11 / 7.23 / 22.5	124.14 / 7.23 / 17.5	124.09 / 7.25 / 15	123.48 / 7.86 / 15	123.27 / 8.07	122.55 / 8.79 / 15 Cut	123.16 / 8.18 / 15 Top	123.22 / 8.12 / 17.5	123.33 / 8.01 / 22.5 Edwalk	123.4 / 7.9 / 25	123.6 / 7.7 / 35
6+20	S.Cb Line of Market				See in Gutter See Sketch	122.88 / 8.46 / 33	122.60 / 8.74 / 25	122.88 / 8.46 / 15	123.42 / 7.92	123.80 / 7.54 / 15	124.03 / 7.31 / 25	124.31 / 7.03 / 34	
TP	11.01	135.59	6.76	124.58									

π
135.59

0-20 N. Cobble of Market in Gutter

0+00 N Line of Market

T.P. 11.06 135.64 11.01 124.58

0+03

0+10

0+25

0+50

Low ℄ R East

124.68	124.45	124.23	123.92	123.62	123.48	123.49
10.91 / 30	11.12 / 25	11.36 / 15	11.67	11.97 / 15	12.1 / 25	12.10 / 33
127.8	126.4	124.85	124.25	124.15	123.73	124.31	1250	124.32	126.8	126.8
78 / 30	9.2 / 25	10.94 / 15	11.34 / 15	11.99	11.86 / 15	11.28 / 15	10.6 / 15	11.27 / 175	225	9.8 / 25	9.8 / 35

125.6 ↓

132.6	127.4	125.2	124.8	125.5	127.7	127.3	126.1
3.0 / 32	8.2 / 25	10.4 / 15	10.8	10.1 / 15	7.9 / 17	8.3 / 25	7.5 / 35
132.6	128.5	126.0	125.8	125.7	126.5	129.4	128.5	127.0
3.0 / 32	7.1 / 25	9.6 / 19	9.8 / 15	9.9	9.1 / 15	6.2 / 19	7.1 / 25	8.6 / 35
	128.2	127.9	127.5	128.5	129.3	131.3	131.3	130.8
	7.4 / 25	7.7 / 15	8.1	7.1 / 12	6.3 / 15	4.3 / 18	4.3 / 25	4.8 / 35
	130.3	129.9	130.1	130.6	132.6	132.7	132.6
	5.3 / 25	5.7 / 15	5.5	5.0 / 12	3.0 / 15	3.9 / 25	3.0 / 35

		↑ 135.64		
0+75				
0+85				
1+00				
TP.	9.31	144.73	0.22	135.42
1+25				
1+40				
1+70				

L ℄ R

132.8	132.5	132.6	132.8	133.4	134.0	134.0
2.8	3.1	3.0	2.8	2.2	1.6	1.6
25	15		10	15	25	30
133.6	133.4	133.1	134.3	134.2	133.8	133.9
2.0	2.2	2.5	1.3	1.9	1.8	1.7
25	15		5	15	25	30
135.6	134.6	134.3	134.3	134.8	134.9	134.9
0.0	1.0	1.3	1.3	0.8	0.7	0.7
30	25	15	25	15	25	30
			0			

144.73 ↓

136.9	136.3	135.9	135.8	136.1	136.1	135.0
7.8	8.4	8.8	8.9	8.5	8.6	9.7
30	25	15		15	25	35
137.9	137.1	136.7	136.7	137.5	137.5	137.5	136.4	135.6
6.8	7.5	8.0	8.0	7.2	7.2	7.2	8.3	9.1
30	25	15	4	2		15	25	35
138.1	138.5	138.1	138.2	138.7	138.3	138.0	137.9	136.9	136.7
6.0	6.2	6.6	6.5	6.0	6.4	6.7	6.8	7.8	8.0
30	25	25	3		7	15	21	25	30

π
194.73

L ℄ R

2+00	139.9	139.4	139.2	139.2	138.5	137.0	136.5
	9.8	5.3	5.5	5.5	6.2	7.7	8.2
	30	25	15		15	25	35
2+50	140.6	140.4	139.7	139.3	139.1	138.2	136.8	135.9
	9.1	9.3	5.0	5.4	5.6	6.5	7.9	8.8
	30	25	15		5	15	25	35
3+00	140.8	140.3	139.7	139.5	138.8	138.8	138.1	136.1	134.7
	3.9	4.4	5.0	5.2	5.9	5.9	6.6	8.6	10
	30	25	20	15		5	15	25	40
3+50	140.1	139.6	139.4	138.6	138.3	137.5	137.3	135.5	135.2	134.0
	9.5	5.1	5.3	6.1	6.4	7.2	7.4	9.2	9.5	10.7
	30	25	15		5	9	15	22	25	40
4+00	138.8	138.9	138.9	138.1	136.2	136.3	134.7	134.3
	5.9	5.8	5.8	6.6	8.5	8.4	10	10.4
	30	25	15		10	15	25	40

T
149.73

4720

4745

4765

4775

5700

L

138.1	138.0		138.6		137.8			
6.6	6.7		6.1		6.9			
30	25		15					
137.5	137.3	137.7	138.3		137.9			
7.2	7.4	7.0	6.4		6.8			
30	25	21	15					
136.7	136.6	137.6	138.1		138.1	137.6		
8.0	8.1	7.1	6.6		6.6	7.1		
30	25	21	15			7		
137.0	137.2	138.0	138.2		138.0	137.3		
7.7	7.5	6.7	6.5		6.7	7.4		
35	25	21	15			8		
138.7	138.4		138.3		137.9	137.6		
6.0	6.1		6.4		6.8	7.1		
30	25		15			10		

R

136.4	135.7			134.7			134.3	
8.3	9.0			10			10.4	
7	15			25			40	
136.9	136.8	137.2	137.1	135.9			134.6	
7.8	7.8	7.5	7.6	8.8			10.1	
10	15	15	18	25			40	
136.3	136.3	137.0	135.9				134.9	
8.9	8.4	7.7	8.8				9.8	
11	15	19	25				40	
136.3	135.5						135.2	
8.9	9.2						9.5	
11	25						40	
136.9	136.2						135.9	
7.8	8.5						8.8	
15	25						40	

π
144.73

L ¢ R

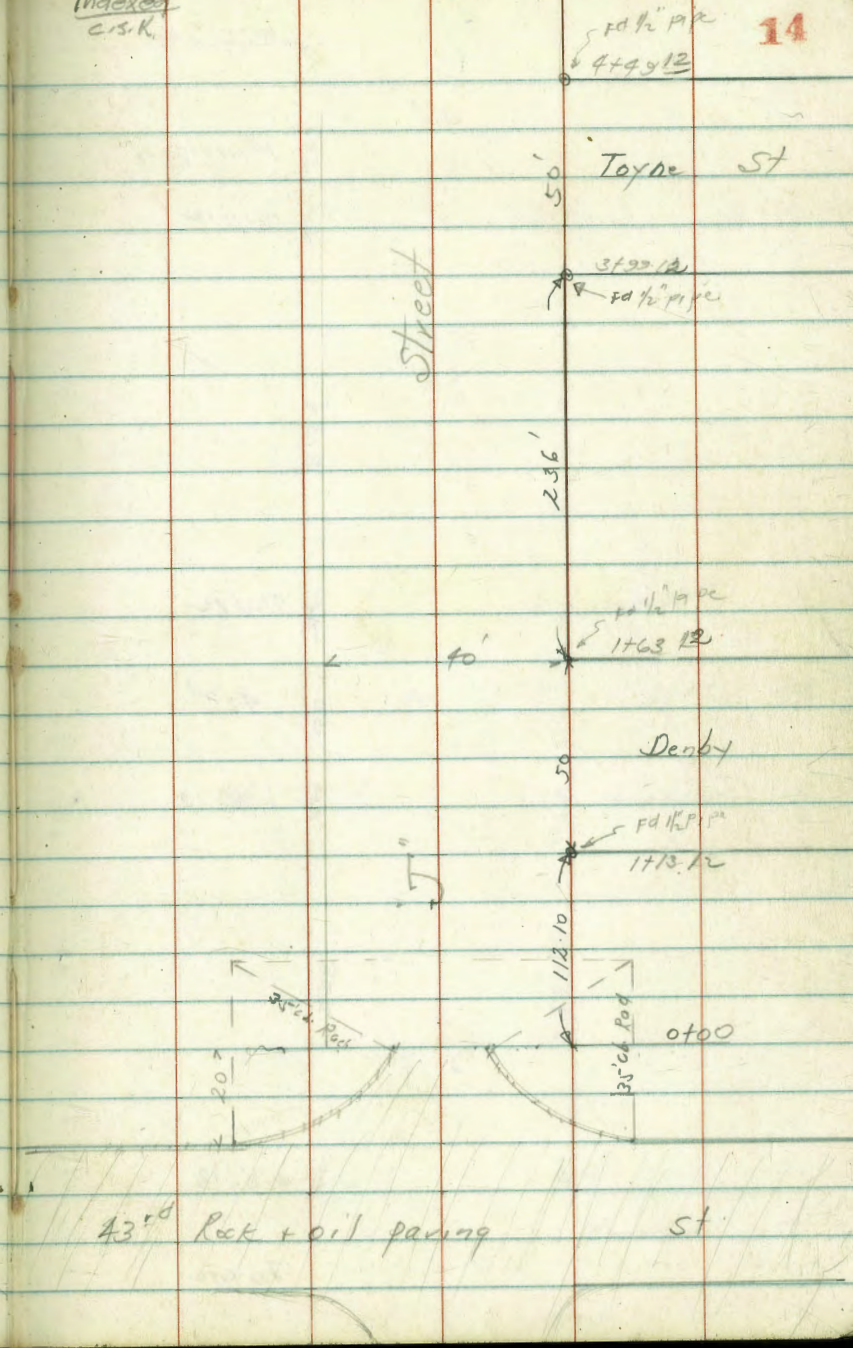
5+25	137.9	137.6	137.7	137.8	137.9	137.5	137.0						
	6.8	7.1	7.0	6.9	6.8	7.2	7.7						
	30	25	15		15	25	40						
5+40	138.4	137.8	137.7	137.5	138.0	137.4	136.6						
	6.3	6.9	7.0	7.2	6.7	7.3	8.1						
	30	25	15		15	25	40						
5+50	138.6	138.1	137.6	137.4	137.4	136.7	135.7						
	6.1	6.6	7.1	7.3	7.3	8.0	9.0						
	30	25	15		15	25	40						
5+85	137.5	137.3	137.1	136.3	136.1	135.5	134.6	134.0					
	7.2	7.4	7.6	8.4	8.6	9.2	10.1	10.7					
	30	25	15		10	15	25	40					
6+00	137.5	137.1	137.8	137.6	137.1	136.9	136.1	134.9	134.1				
	7.2	7.6	6.9	7.1	7.6	7.8	8.6	9.8	10.6				
	35	25	15	3		7	15	25	40				

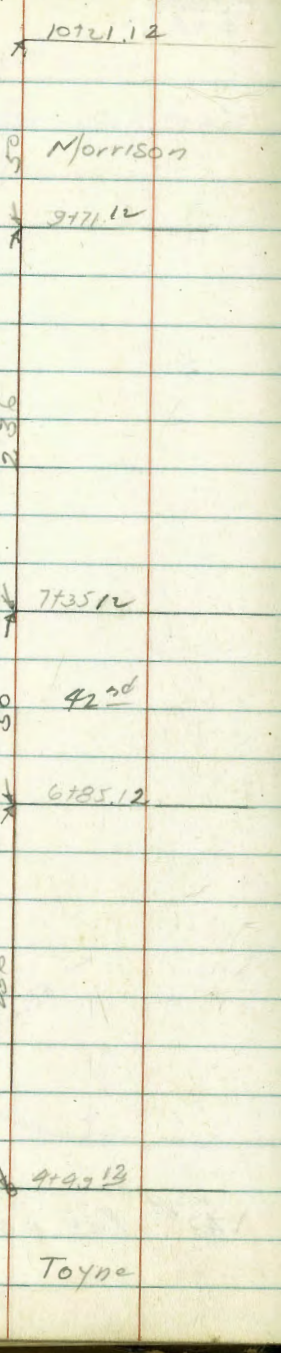
		$\bar{\pi}$ 144.73					L		℄		R		
6+12						137.2	137.4	137.7	137.1	136.5	135.0	133.9	
						75	73	70	7.6	82	97	108	
						35	25	15		15	25	40	
6+21.54						136.1	135.4	135.2	135.5	134.6	134.0	134.3	134.1
						86	93	95	92	101	107	104	106
						40	25	15		15	20	25	40
TP.	166	138.73	766	137.07									
Check Starting	BM.		7.94	130.79 ✓	NEBP Market & Toyos								

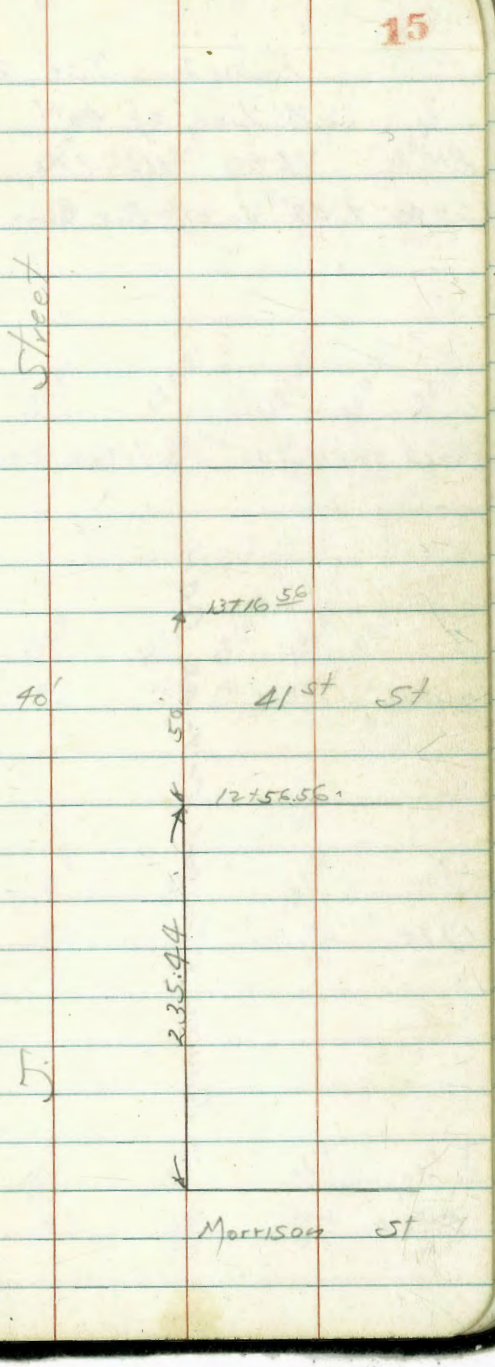
4/30/42
Bliss Notes
Sommer Meyer
Begg. Rod

X. Sec. J. St. ℄ of 43rd to the West Line of 41st For Levels see Page 16

Indexed
C.S.K.




10+21.12
40'
50
Morrison
9+71.12
St
236'
7+35.12
50
42nd
6+85.12
236
J.
4+49.12
Toyne


Street
13+16.56
40'
41st St
50
12+56.56
2,35.44
J.
Morrison St

X Sections J.st ℄ of 43rd to
W. Line of 41st

					40st		L		℄		R.			
BM.	680	136.11		129.31	N.E. Prop Pipe J + Dan by	134.15	133.08		132.74	132.43	132.11		131.77	130.61
0-40 ℄ 43rd on oil + Rock Paving						196	308		337	368	400		434	550
						55	20		10		10		20	55
						133.60	134.21	132.83		132.56	132.09	131.71	131.45	130.10	130.73
0-19 W Cb of 43rd oil + Rock Paving						251	190	328		355	402	440	466	601	538
						55	55	20		10		10	20	55	55
						133.4	133.3	133.30	132.7	132.1	131.7	131.3	131.49	131.50	131.5
0+00						27	28	281	34	40	44	48	462	461	46
						25	20	195	19	10		10	182	20	25
						133.8	133.4		132.4	131.8	131.7		131.5		131.7
0+15						23	27		37	43	44		46		44
						25	20		10		10		20		25
						132.7	132.5		132.1	131.8	135.1		131.7		131.3
0+30						34	36		40	43	10		44		48
						25	20		10		40		20		25

Reduced ▽ Plotted 5-7-42 Q.B.H.

			⊼ 136.11					L			℄			R		
0+50							131.0	131.1		131.3	131.1		131.2		131.2	131.4
							5.1	5.0		4.8	5.0		4.9		4.9	4.7
							25	20		10			10		20	25
0+80							131.6	131.0		130.3	130.4	130.5	130.9	130.9	130.2	130.2
							4.5	5.1		5.8	5.7	5.6	5.2	5.2	5.9	5.9
							25	20		10		5	10	15	20	25
1+00							130.3	129.8	130.0	129.6	129.3		129.4		129.1	129.1
							5.8	6.3	6.1	6.5	6.8		6.7		7.0	7.0
							25	20	13	10			10		20	25
1+13.12	⊼ Line of Den by						129.8	129.8		129.2	128.9		128.9		129.2	
							6.3	6.3		6.9	7.2		7.2		6.9	
							25	20		10			10		20	
1+38.12	℄ Den by						129.5	128.8		128.6	128.6		128.5		128.6	
							6.6	7.3		7.5	7.5		7.6		7.5	
							25	20		10			10		20	

		$\bar{x}$ 136.11				L				R		
1+63.12 W Line of Denby						128.0	128.1	127.8	128.1	127.9	128.0	127.6
1+66 G+L Pole 14.6 Rt of ctr P17 0008 ✓						8.1	8.0	8.3	8.0	8.2	8.1	8.5
						25	20	10		10	13	20
2+00						127.3	127.3	127.2	127.3	127.1	127.2	127.3
						8.8	8.8	8.9	8.8	9.0	8.9	8.8
						25	20	10		10	20	25
2+50						126.6	126.5	126.1	125.9	125.9	126.2	126.2
						9.5	9.6	10.0	10.2	10.2	9.9	9.9
						25	20	10		10	20	25
3+00						126.4	126.1	125.6	125.4	125.1	125.5	125.2
						9.7	10	10.5	10.7	11.0	10.6	10.9
						25	20	10		10	20	25
TP.	0.98	126.68	10.41	125.70								
Dbl Garage on North +19 22' Rt of ℄ Dirt Floor ✓			1.8	124.9								

		⊼ 126.68					L		℄		R	
3+45						125.6 1.1 25	125.4 1.3 20	125.1 1.6 10	124.7 2.0	124.6 2.1 10	124.8 1.9 20	124.8 1.9 25
3+75						124.7 2.0 25	124.6 2.1 20	124.3 2.4 10	124.0 2.7	124.1 2.6 10	124.6 2.1 20	124.6 2.1 25
3+99.10 E Line of Toyne						124.7 2.0 25	124.7 2.0 20	124.6 2.1 10	124.1 2.6	123.7 3.0 10	124.4 2.3 20	
4+20						124.3 2.4 25	124.7 2.0 20	124.6 2.1 10	124.0 2.7 5	123.6 3.1	123.4 3.3 10	123.4 3.3 20
124.10 ℄ Toyne						123.6 3.1 25	124.0 2.7 20	124.0 2.7 10	123.4 3.3	123.3 3.4 10	123.4 3.3 20	

Station	Remarks	⊼ 126.68		
4+34				
4+49.10	W. Line Toyne			
4+50	G+Lt Pole 14.5 Rt of ℄ ✓			
4+56				
4+70				
4+90	Dbl Garage on Lt 29.5 Lt of ℄ ✓	Dirt floor	5.1	121.6
5+00				

Station	L			℄	R			
4+34	123.1 / 3.6 / 25	123.1 / 3.6 / 20	123.1 / 3.6 / 10	123.2 / 3.5	123.2 / 3.5 / 10		123.3 / 3.4 / 20	
4+49.10	123.3 / 3.4 / 25	123.3 / 3.0 / 20	123.4 / 3.3 / 10	123.1 / 3.5	122.9 / 3.8 / 10	124.1 / 2.6 / 18	124.2 / 2.5 / 20	
4+56	123.2 / 3.5 / 25	123.2 / 3.5 / 20	123.1 / 3.6 / 10	122.8 / 3.9	122.7 / 4.0 / 10	124.0 / 2.7 / 17	123.9 / 2.8 / 20	123.8 / 2.9 / 25
4+70	122.8 / 3.9 / 25	122.6 / 4.1 / 20	122.6 / 4.1 / 10	122.6 / 4.1	122.5 / 4.2 / 10		122.4 / 4.3 / 20	122.4 / 4.3 / 25
5+00	121.5 / 5.2 / 25	121.7 / 5.0 / 20	121.9 / 4.8 / 10	122.4 / 4.3	122.6 / 4.1 / 10	122.7 / 4.0 / 12	121.8 / 4.9 / 20	121.7 / 5.0 / 25

π
126.68

	L			℄		R		
5+10	120.4 6.3 25	120.7 6.0 20	121.5 5.2 10	122.2 4.5		122.2 4.5 10	221.7 5.0 20	120.9 5.8 25
5+25	121.3 5.4 25	121.9 4.8 20	121.9 4.8 10	121.8 4.9		121.6 5.1 10	122.0 4.7 20	122.2 4.5 25
5+40	121.7 5.0 25	121.9 4.8 20	122.0 4.7 10	122.0 4.7	121.5 5.2 6	121.5 5.2 10	121.3 5.4 20	121.5 5.2 25
5+55	119.3 7.4 25	120.0 6.7 20	121.2 5.5 13	121.3 5.4 10	121.5 5.2	121.8 4.9 6	122.1 4.6 10	121.7 5.0 20	121.6 5.1 25
5+70	116.6 10.1 30	118.2 8.5 20	120.3 6.4 10	121.2 5.5 6	121.6 5.1	121.5 5.2 5	122.2 4.5 10	122.4 4.3 20	122.2 4.5 25

						L				℄			R.		
		π 126.68													
6+00						111.9	114.6	116.1	116.9	117.4	117.2	117.1	116.3	115.6	
						14.8	12.1	10.6	9.8	9.3	9.5	9.6	10.4	11.1	
						35	20	10	6		10	20	30	35	
6+15						110.5	110.3	111.9	114.1	114.2	115.4	115.4	115.1	114.6	112.7
						16.2	16.4	14.8	12.6	12.5	11.3	11.3	11.6	12.1	14.0
						35	30	20	16	10	5		10	20	35
T.P.	1.46	116.27	11.87	114.81											
6+37						109.3	109.5	109.5	110.1	110.4	111.3	111.5	111.2		
						7.0	6.8	6.8	6.2	5.9	5.0	4.8	5.1		
						40	20	18	10		10	20	40		
6+60						108.6	108.6	108.2	108.9	109.7	110.3	110.0	109.5	108.9	
						7.7	7.7	8.1	7.4	6.6	6.0	6.3	6.8	7.4	
						40	30	20	10		10	20	30	40	
6+77						107.6	108.3	108.2	108.2	108.2	108.2	108.2	108.1	108.4	
						8.7	8.0	8.1	8.1	8.1	8.1	8.1	8.2	7.9	
						40	30	20	10		10	20	30	40	

T
116.27

6+84 Grkt Pole 19.1 Rt of ℄ # p.17000S

6+85 10 East Line

6+94

7+02

7+10 10 ℄ 42nd

7+35 10

	L	℄	R
6+94	109.1 / 7.2 / 35	107.6 / 8.7 / 25	107.9 / 8.9 / 20
	108.3 / 9.0 / 10	108.1 / 9.2	108.4 / 7.9 / 10
	107.9 / 8.9 / 20	108.6 / 7.7 / 35	109.1 / 7.2 / 40
7+02	109.2 / 7.1 / 35	107.5 / 8.8 / 20	107.7 / 8.6 / 10
	107.7 / 8.6	108.3 / 8.0 / 10	108.1 / 8.2 / 20
	108.6 / 7.7 / 35		
7+10 10 ℄ 42nd	109.0 / 7.3 / 35	107.5 / 8.8 / 20	107.3 / 9.0 / 10
	107.3 / 9.0	107.5 / 8.8 / 10	107.2 / 9.1 / 20
	107.5 / 8.8 / 35		
7+35 10	108.5 / 7.8 / 35	107.3 / 9.0 / 20	107.4 / 8.9 / 10
	107.4 / 8.9 / 10	107.4 / 8.9 / 6	106.5 / 9.8 / 5
	107.3 / 9.0	107.4 / 8.9 / 10	107.3 / 9.0 / 20
	107.3 / 9.0 / 35		
	106.8 / 9.5 / 35	106.8 / 9.5 / 20	106.9 / 9.4 / 10
	106.7 / 9.6 / 6	104.7 / 12.1 / 2	104.2 / 12.1
	106.7 / 9.6 / 4	106.5 / 9.8 / 10	106.8 / 9.5 / 20
	106.8 / 9.5 / 35		

T
116.27

	L			C			R	
7+40	106.3	106.3	106.8	106.9	104.0	106.6	106.6	106.8	106.6
	10.0	10.0	9.5	9.9	12.3	9.7	9.7	9.5	9.7
	35	20	10	5		5	10	20	35
7+47	106.0	106.0	103.4	103.5	104.0		104.1	104.1	104.2	104.8
	10.3	10.3	12.9	12.8	12.3		12.2	12.2	12.1	11.5
	35	20	19	10			10	20	35	45
7+58	105.7	103.1	103.1	103.1	104.8	106.0	106.7	106.0	105.9
	10.6	13.2	13.2	13.2	11.5	10.3	9.6	10.3	10.4
	35	22	20	16	10		10	20	35
7+80	104.2	105.9	106.1	105.7	105.8	106.8	101.4	109.9
	12.1	10.4	10.2	10.6	10.5	9.5	8.9	6.4
	35	30	20	10		10	20	35
8+00	105.5	105.5	106.1	106.1	107.7	108.6	111.1
	10.8	10.8	10.2	10.2	8.6	7.7	5.2
	35	20	10		10	20	30

↑ 116.27

L & R

8+75

104.3	104.4	105.6	106.5	106.7	106.7	106.7	108.7	110.5	113.1
12.0	11.9	10.7	9.8	9.6	9.6	9.6	7.6	5.8	3.2
35	25	20	16	10		5	10	20	30

8+95

8+53 G+At Pole #P170005 ✓ 14' Rt of ℄

103.6	105.2	105.7	106.8	107.0	107.3	108.4	108.8	110.3	113.2
12.7	11.1	10.6	9.5	9.3	9.0	7.9	7.5	6.0	3.1
35	27	20	10		5	10	15	20	30

8+70

107.2	107.4	109.1	111.3	113.4
✓	8.9	6.8	5.0	2.9
	6	10	20	30

+88 · G+At DMan 145 Rt ℄ ✓

9+00

103.5	105.1	106.9	106.9	107.3	107.9	108.9	111.5	113.4
12.8	11.2	9.9	9.4	9.0	8.4	7.4	4.8	2.9
35	20	12	10		6	10	20	30

9+25

103.3	105.1	106.8	107.5	109.6	111.4	113.8
13.0	11.2	9.5	8.8	6.7	4.9	2.5
35	20	10		10	20	30

↑ 116.27

9+50

9+71 10 E Line of Morrison St

TP	3.05	118.46	0.86	115.41

+85

+96 Lo & N Morrison

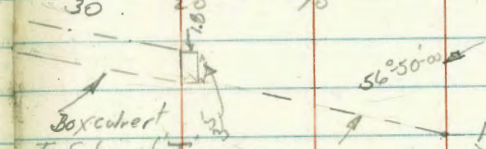
Lo +21 10 W Line of Morrison

+36 Tel Pole 13.5 Rt of ℄ # D33160T ✓

	L	℄	R
108.0	103.4	106.8	107.5	107.6	108.7	110.5	112.5	114.7
143	129	9.5	8.8	8.7	7.6	5.8	3.8	1.6
42	35	20	10		6	10	20	30
104.1	101.8	109.7	109.5	109.6	110.5	112.5	114.3	115.9
12.2	8.5	6.6	6.8	6.7	5.8	3.8	2.0	0.4
35	20	14	10		6	10	20	30
104.8	110.1	101.2	111.5	111.1	112.7	115.1	116.8	117.4
13.7	8.4	7.3	7.0	7.4	5.8	3.4	1.7	1.1
35	20	18	10		5	10	20	30
105.1	111.0	113.1	113.1	113.2	113.5	115.5	116.5	117.7
13.4	7.5	5.4	5.4	5.3	5.0	3.0	2.0	0.8
35	20	14	10		5	10	20	30
105.3	113.9	114.2	113.5	113.5	116.2	116.2	116.2	116.2
13.7	4.6	4.3	5.0	5.0	2.3	2.3	2.3	2.3
35	20	10		4	8	10	26	25

		π 118.46					L			℄			R			
10+40						107.5	111.6	114.0	114.0	113.5	114.7	115.9	116.1	116.3	116.3	
						11.0	6.9	4.5	4.5	5.0	3.8	2.6	2.4	2.2	2.2	
						35	20	13	10		6	8	10	20	25	
+55						107.5	109.3	111.3	112.6	102.8	113.0	113.8	115.2	115.1	115.5	
						11.0	9.2	7.2	5.9	5.7	5.5	4.7	3.3	3.4	3.0	
						35	22	20	17	10		5	10	20	25	
+28						106.5	110.5	111.9	111.9	112.2	113.3	114.3		115.2	115.2	
						12.0	8.0	6.6	6.6	6.3	5.2	4.2		3.3	3.3	
						35	20	14	10	5		10		20	25	
11+00						106.4	109.2	110.1	110.0	110.1	112.4		113.9	114.4		
						12.1	9.3	8.4	8.5	8.4	6.1		4.6	4.1		
						35	20	15	10		10		20	25		
+15						105.1	107.1	107.9	107.9	108.5	110.2	110.3	111.5	111.9		
						13.4	11.4	10.6	10.6	10.0	8.3	8.2	7.0	6.6		
						35	20	15	10		10	15	20	25		

		π 118.46				L		℄		R		
										+96 -145		
T.P.	4.60	110.48	12.58	105.88								
						103.0	103.6	104.1	103.4	103.8	103.7	103.7
11+46						7.5	6.9	6.4	7.1	6.7	6.8	6.8
						35	20	10		10	20	30
						101.8	102.3	102.4	101.9	101.9	102.0	102.0
+55	Eucalyptus Tree 12 Lt 1° Dia ✓					8.7	8.2	8.1	8.6	8.6	8.5	8.5
+65	" " " " " " ✓					30	20	10		10	20	30
+68	East Side of 3.5x1.88 or Produced to ℄ of J See 182 for flow ✓											
						101.4	101.9	101.7	101.5	101.5	101.9	102.3
+72						9.1	8.6	8.8	9.0	9.0	8.6	8.2
						30	20	10		10	20	30
+82	Rt L to 1½'x4' Box culvert 20' Rt Flow		11.05	99.41 ✓								
						101.5	101.5	99.5	99.5	100.9	101.7	
+80						9.0	9.0	11.0	11.0	9.6	8.8	
						30	21	20	16	10		
						101.6	102.3	102.9	102.2	102.1	102.2	103.5	105.1	106.2
+87						8.9	8.2	7.6	8.3	8.4	8.3	7.0	5.4	4.3
						30	20	11	10		7	10	20	25



		⊼ 110.48			
+96 . G+Lt + Tel Pole 14.5 Rt ✓					
12+00 East End Res. on Lt Floor		21.2 Lt ✓	7.57	102.91	
T.P.	9.18	113.24	6.42	104.06	Top axle
12+12 Two 12" Eucalyptus 12.9 Lt ✓					
+14 14.7 Rt G+Lt D.Man ✓					
+17.5 W. End Res. 21.2 Lt Floor ✓			10.33	102.91	
12+25					
12+26 Begin Row of oleanders 5' ctrs 5 ctrs 11.6 Lt ✓					
12+56.56 W Line 41st					
+58 End Row Oleanders south Lt 11.6 ✓					
+64 24" Eucalyptus 19 Lt to ctr ✓					
+65					

L ℄ Rt

101.5	102.0	102.7	103.2	103.1	105.6	108.1	109.3
9.0	8.5	7.8	7.3	6.8	4.9	2.4	1.2
30	20	10		7	10	20	25

101.6	101.8	101.9	102.7	103.6	104.8	105.6	108.4	109.4
11.6	11.4	11.3	10.5	9.6	8.4	7.6	4.8	3.8
30	20	14	10		8	10	20	25

100.8	101.2	101.5	102.3	103.5	103.6	104.4	105.4	108.0	109.2	110.5
12.4	12.0	11.7	10.9	9.7	9.6	8.8	7.8	5.2	4.0	2.7
30	20	15	10	8		8	10	15	20	25

99.6	100.1	100.8	101.3	103.0	104.0	104.3	105.1	109.6	111.3
13.6	13.1	12.4	11.9	10.2	9.2	8.9	8.1	3.6	1.9
30	25	20	16	10		7	10	20	25

		113.24			
12+86 56 & 41 St					
+93 8" Pepper Tree 20' Lt. & ctr ✓					
13+00					
13+16 56 W. line 41 St					
Set BM. 4 Nails in Eucalyptus 24' Lt 12+64	12.72	115.43	10.53	102.71	
TP	10.36	124.11	1.68	113.75	
TP	9.86	132.37	1.60	122.51	
TP	6.55	138.51	0.41	131.96	
check BM			7.70	130.81	N.E. BP Tapper Market
				130.78	
				0.03 error	

98.2	98.8	100.0	101.5	101.5	102.6		106.3		109.7	111.2
15.0	14.4	13.2	11.7	11.7	10.5		6.9		3.5	2.0
30	25	20	12	10			10		20	25

97.6	98.3	99.0	99.4		101.2	101.8	103.2	105.7	108.8	110.4
15.6	14.9	14.2	13.8		12.0	11.4	10.0	7.5	4.4	2.8
30	25	20	10			2 3	10		20	25

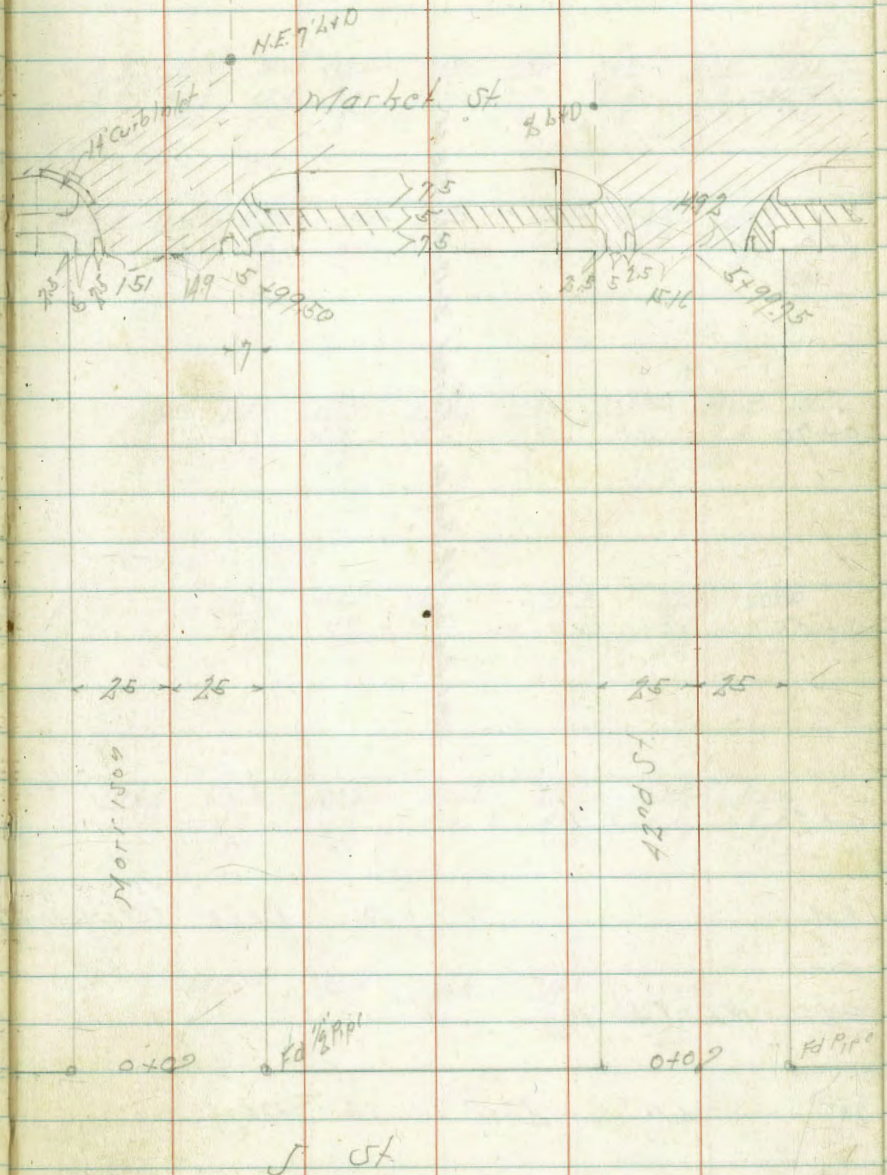
97.5		99.7	99.2	98.5	100.1		104.3		107.0	108.3
5.7		15.5	15	14.7	13.1		8.9		6.2	4.9
30		20	10	7			10		20	25

Cross Section Morrison St
SSt to Market

Indexed
C.S.K.

May 13-42
Sisson
H Moore

31



Morrison St.
SSt to Market

Notes Rod by RE Evans Started 5-18-42 CB HK

						Lt: W			Rt: E		
							℄				
1+25						1039 / 18.4 / 15	1076 / 15.3 / 25	1099 / 12.1 / 15	1131 / 9.2 / 8	1140 / 8.3	1146 / 7.7 / 5	1169 / 5.4 / 15	1175 / 4.8 / 25	1171 / 5.2 / 35
1+0						1066 / 15.7 / 45	1121 / 10.2 / 25	1147 / 7.6 / 15	1162 / 6.1 / 6	1165 / 5.8	1171 / 5.2 / 15	1175 / 4.8 / 25	1187 / 3.6 / 40	
0+70							1162 / 6.1 / 40	1180 / 4.3 / 25	1184 / 3.9 / 15	1190 / 3.3	1194 / 2.9 / 8	1200 / 2.3 / 15	1200 / 2.3 / 25	1187 / 3.6 / 40
0+45							1186 / 5.7 / 40	1191 / 2.9 / 25	1192 / 3.1 / 15	1185 / 4.8 / 8	1184 / 5.9	1186 / 3.7 / 15	1192 / 3.1 / 25	1187 / 3.4 / 35
0+20							1168 / 5.5 / 35	1175 / 4.8 / 25	1176 / 4.7 / 15	1177 / 4.6	1181 / 4.2 / 15	1175 / 4.8 / 25	1171 / 5.2 / 35	
BM			7.69	1146.3	HL Prop Pipe SSt x Morrison									
0+0 = HL SSt.							1161 / 6.2 / 25	1153 / 6.6 / 15	1166 / 5.7	1166 / 5.7 / 15		1146 / 7.7 / 25		
TP	6.16	122.32	11.53	116.16					122.32					
BM	2.30	127.69		125.39	NW BP Market + 12th St.									

Morrison St.

TP	9.55	125.65	6.22	116.10	on Rock 3+0.2
3+0					
2+70					
2+35					
2+0					
1+75					14.5 / 45
1+50					
		122.32			

Lt						Rt	
1073 / 1.50 / 45-Bottom	1103 / 12.0 / 38	111.7 / 10.6 / 25	112.4 / 9.9 / 15	115.7 / 6.6 / 4	116.1 / 6.2	117.7 / 4.6 / 15	118.2 / 4.1 / 22	119.8 / 2.5 / 25
1067 / 1.6 / 45-Bottom	1081 / 14.2 / 35	109.2 / 13.1 / 25	111.0 / 11.3 / 15	114.8 / 7.5 / 5	115.4 / 6.9	117.5 / 4.8 / 15	118.2 / 4.1 / 22	120.8 / 1.5 / 25
1094 / 12.9 / 45	1077 / 14.6 / 30	1053 / 17.0 / 25-Bottom	1102 / 12.1 / 15	115.4 / 1054 / 6.9 / 4	115.4 / 1054 / 6.9	117.9 / 1077 / 4.6 / 15	118.4 / 3.0 / 22	119.7 / 1.6 / 25
1070 / 15.2 / 45	1052 / 17.1 / 30-Bottom Gully	1075 / 14.8 / 25	1096 / 12.7 / 15	113.1 / 9.2 / 4	113.1 / 9.2	115.4 / 6.9 / 15	116.5 / 5.8 / 22	118.0 / 4.3 / 25
1095 / 17.8 / 35-Bottom	1071 / 15.2 / 25	1080 / 14.3 / 15	1088 / 14.1 / 10	1102 / 12.1 / 5	1102 / 12.1	112.8 / 9.5 / 15	113.2 / 9.1 / 25	114.0 / 8.3 / 40
1045 / 17.8 / 45-Bottom Gully	1068 / 15.5 / 25	1075 / 14.8 / 15	1091 / 13.2	1106 / 11.7 / 15	111.0 / 11.2 / 25	111.3 / 11.0 / 40		
				122.32				

								Lt.		℄		Rt		
5+03	17.5 Lt of ℄ = Wly Power Pole ✓													
5+0								113.8 11.9 45	117.0 8.7 25	118.1 7.6 15	118.3 7.4	118.8 6.9 15	119.5 6.2 22	120.9 4.8 25
4+70								113.5 12.2 45	115.8 9.9 25	117.2 8.5 15	118.2 7.5 7	118.6 7.1	119.2 6.5 15	119.8 5.9 22	121.6 4.1 25
4+35								110.9 14.8 45	113.7 12.0 25	116.6 9.1 15	117.6 8.1 7	118.0 7.7	119.7 6.0 15	120.0 5.7 22	122.1 3.6 25
4+0								110.6 15.1 45	110.6 15.1 35	113.9 11.8 25	116.8 8.9 15	118.8 6.9 7	119.5 6.2	120.6 5.1 15	120.7 5.0 21	122.6 3.1 25
3+70								110.0 15.7 40	113.0 12.7 25	115.4 10.3 15	117.9 7.8 7	118.8 6.9	119.9 5.8 15	120.1 5.6 21	122.6 3.1 25
3+35								110.2 16.6 45	112.0 13.7 25	113.9 11.8 15	116.9 8.8 5	117.4 8.3	118.9 6.8 15	119.4 6.3 22	120.6 5.1 25
		125.65										125.65			

Morrison St.

BM		0.28	125.37	NW B.P. Market & Main St 125.39
South Curb Line Market				
6+43.4 = L Returns				
5+99.50 = SL Market				
5+70				
5+35				
		125.65		

Lt.		Rt.
119.02 6.58 35-CL	118.21 7.44 35-Gutter	118.28 7.37 15
118.74 6.91	119.10 6.55 15	119.20 5.95 35-Gutter
120.31 5.34 35-CL		
118.94 6.71 20.9-CL	118.01 7.64 20.9-Gutter	
119.27 6.38 20.9-Gutter	118.50 5.75 20.9-CL	
119.1 6.6 25	119.02 6.63 15.1-CL	118.45 119.85 7.20 7.15-Gutter
119.10 6.55	119.15 6.50 14.9-Gutter	119.72 5.93 14.9-CL
119.9 5.8 25		
118.0 7.7 40	118.1 7.6 25	118.1 7.6 15
118.2 7.0	119.0 6.7 15	119.3 6.4 25
114.8 10.9 40	116.2 9.5 25	119.3 8.4 15
119.4 8.1	118.3 7.4 15	118.5 7.2 23
119.2 6.5 25		
	125.65	

Cross Section 42nd St. J St to Market St

May. 14. 42 - Sisson Moore Walter

Notes Red. 42nd from Plotted profile + 2.73 c BM 5-18-42

1+35						
1+16						
1+0						
0+70						
0+35						
BM		11.99	10798		N.E. Prop Pipe J St + 42nd St	
0+0 = N.L. J St.						
BM =	534	119.97	11463		N.E. Prop Pipe J St + Morris St. Page 52	

Indexed C.S.K.

Lt = W

Rt = E

1120 / 8.0 / 40	1100 / 10.0 / 25	109.2 / 10.8 / 15	109.3 / 10.7	108.5 / 10.5 / 15	108.2 / 10.8 / 25	108.8 / 10.2 / 50
1080 / 13.0 / 50	1084 / 11.6 / 25	1078 / 12.1 / 15	1070 / 13.0 / 35 Bot Ditch	1083 / 11.7 / 15	1077 / 112.7 / 12.3 / 25 Ditch	109.6 / 10.4 / 50
1022 / 12.3 / 45 Bottom Ditch	1028 / 12.1 / 25	1081 / 11.9 / 15	1075 / 12.5 / 7	1083 / 11.7 / 0.0	1090 / 11.0 / 15	1091 / 10.9 / 25	1093 / 10.7 / 35	1083 / 11.7 / 45 Bottom Ditch
1029 / 12.1 / 45	1072 / 12.3 / 25	1025 / 12.2 / 15	1082 / 11.8	1085 / 11.1 / 15	1082 / 11.3 / 25	1081 / 109 / 40
1054 / 14.6 / 50 Bottom Ditch	1068 / 13.1 / 35	1023 / 12.7 / 25	1025 / 12.5 / 15	1022 / 12.3	1077 / 12.8 / 7	1080 / 12.0 / 15	1078 / 11.2 / 25	1082 / 108 / 40
	1064 / 13.6 / 25	1069 / 13.1 / 15	1071 / 12.9	1071 / 12.9 / 10	1079 / 12.1 / 15	1080 / 12.0 / 25

11997

						Lt		℄		Rt	
3+0						1271 4.3 35	1274 4.0 25	1281 3.3 15	1280 3.4	1286 2.8 15	1286 2.8 25	1289 2.5 40
2+77.5 =	℄ 3.4' Conc Walk on Lt					126.90 4.50 35 on Walk	126.94 4.46 25 Fly 3.4 Conc Walk	1266 4.8 24	1271 4.3 15	1270 4.4	1276 3.8 15	127.7 3.7 25	1278 3.6 35
2+35						124.1 7.3 35	1243 7.1 25	1249 6.5 15	125.5 5.9	125.3 6.1 15	1251 6.3 25	125.6 5.8 35
2+15						123.2 7.7 35	123.80 7.6 25	1232 8.2 15	1234 8.0	122.4 9.0 15	120.8 10.6 25	121.2 10.2 40
2+0						1232 8.2 40	1231 8.3 28	1214 10.0 25	119.9 11.5 15	119.5 11.9	118.7 12.7 15	1180 13.4 25	117.8 13.6 40
									131.40				
TP	12.00	131.40	0.57	119.40									
1+70						1152 4.8 40	1140 6.0 25	1133 6.7 15	1129 7.1	1124 7.6 15	111.8 8.2 25	1121 7.9 50
		119.97							119.97				

42nd St.

					Lt.	℄	Rt.
					133.27	133.20	
					4.76	4.83	
4+92.5	= ℄ 7' Conc Drive on Lt				35 20 Drive	25 ℄ Hyd 2 Conc. Walk	
					133.0	133.0	
					138.0	138.0	133.1
4+70					5.0	5.0	4.9
					35	25	15
						℄	
					131.48	131.55	131.2
					6.55	6.48	6.8
4+34.7	= ℄ 30 Conc Walk on Lt				35 on Walk	24 ℄ Hyd 3 Conc. Walk	15
					130.2	130.0	129.5
					7.8	8.0	8.5
4+0					35	25	15
						138.03	
TP	8.28	138.03	1.65	129.75			
					129.0	129.2	129.0
					2.1	2.2	2.4
3+70					35	25	15
					127.5	128.4	128.4
					3.5	3.0	3.0
3+35					35	25	15
		131.40				131.40	

132.7	132.5	132.2	132.2	132.6		
5.8	5.5	5.8	5.8	5.4		
15	15	15	25	35		
131.5	131.4	131.2	130.7	130.4		
6.5	5.6	5.4	7.3	6.8		
15	15	25	25	35		
129.7	129.8	129.8	129.7	130.1		
7.9	8.3	7.9	7.3	6.8		
15	15	15	25	35		
129.0	129.0	129.6	129.7	130.4		
2.4	2.4	1.8	1.2	0.0		
15	15	15	25	35		
128.7	128.7	129.3	129.7	130.1		
2.7	2.7	2.1	1.7	1.3		
15	15	15	25	35		

		Lt			℄		Rt	
5+99.75 = S.L. Market St		129.7 8.3 25	129.48 8.55 15.16 =Cb	128.80 9.23 15.16 =Gutter	129.26 8.77	129.30 8.73 14.92 =Gutter	129.91 8.12 14.92 =Cb	130.3 7.7 25
5+97	16.9 Lt of ℄ = Wly Power Pole	132.6 5.4 35	131.9 6.1 25	130.7 7.3 15	129.2 8.8 6	129.6 8.4	129.1 8.9 12	130.8 7.2 15	130.9 7.1 20	133.1 4.9 25
5+80		133.0 5.0 35	132.8 5.2 25	132.8 5.2 15	131.4 6.6 5	131.2 6.8	131.8 6.2 10	131.8 5.2 15	133.6 4.4 25	133.2 4.8 35
5+65		132.8 5.2 35	132.7 5.3 25	132.9 5.1 15	132.2 5.8	132.9 5.1 11	133.4 4.6 15	133.3 4.7 25	133.5 4.5 35
5+35		132.2 5.8 35	132.4 5.6 25	132.7 5.3 15	132.7 5.3	133.4 4.6 15	133.8 4.2 25	133.7 4.3 35
5+0	16.5 Lt of ℄ = Wly Power + Tel Pole	133.2 4.8 35	133.1 4.9 25	133.4 4.6 15	133.1 4.9	133.1 4.9 15	133.1 4.9 25	133.0 5.0 35
	138.03				138.03			

42nd St.

						Lt.	℄	Rt.
BM			9.25	128.78	SW. B.P. Market + 42nd 128.76			
South Curb Line Market St.						128.80 / 128.30 / 9.23 / 35=Cb	128.18 / 9.85 / 35=Gutter	128.80 / 9.23 / 15
								129.19 / 8.84
								129.41 / 8.62 / 15
								129.83 / 129.33 / 8.20 / 35=Gutter
								130.40 / 7.63 / 35=Cb
6+13.89 = ℄ Returns						128.23 / 8.80 / 20.9=Cb	128.60 / 9.43 / 20.9=Gutter	
								129.41 / 8.62 / 20.9=Gutter
								130.14 / 7.89 / 20.9=Cb
		138.03						

Mission Valley Road Ext. "A" Line
East of College Ave. to El Cajon Blvd.

"C" Line 1669 Page 1-26

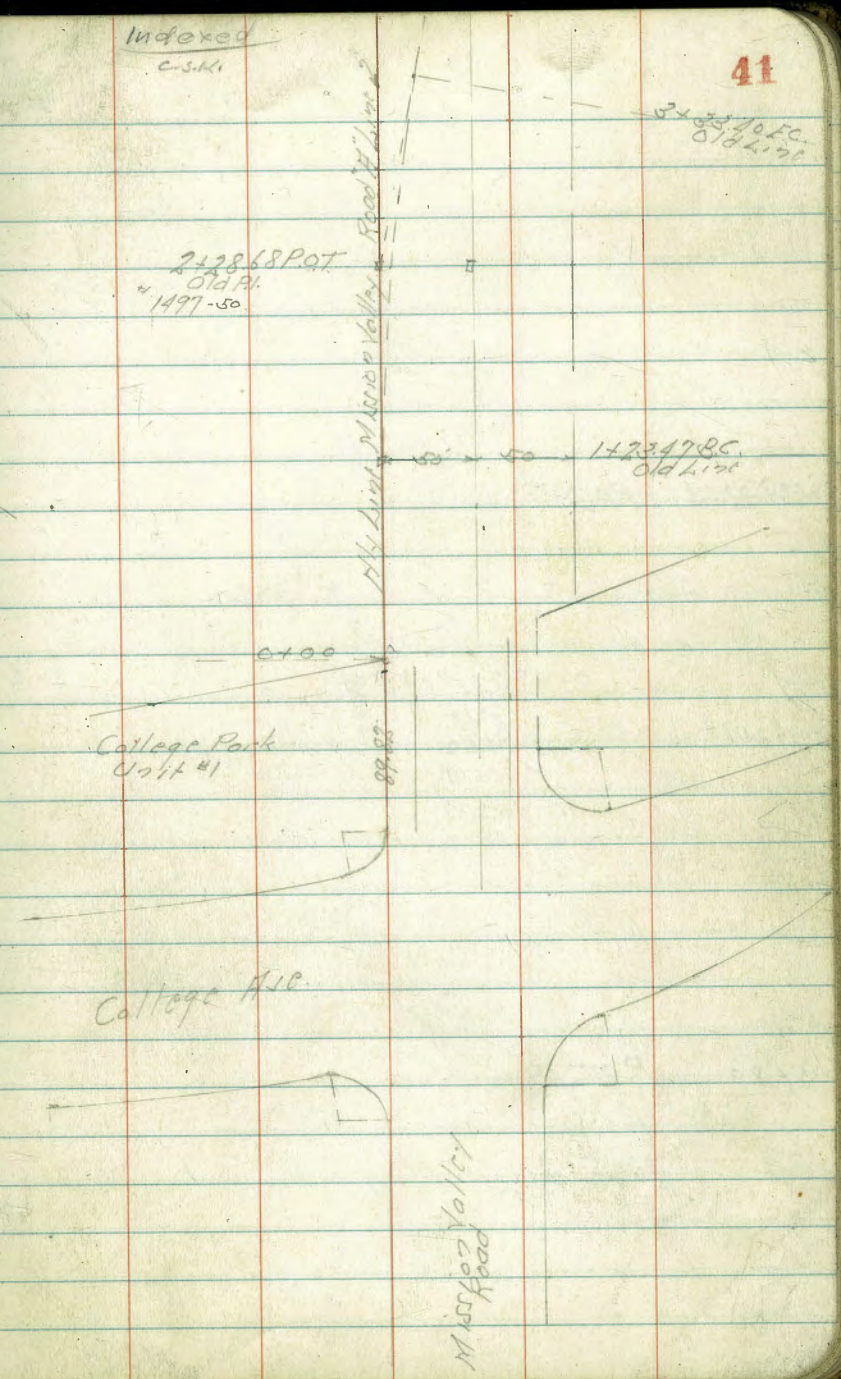
June 15th 1942
Sisson
Boxlin
Hazard

2+28.68 P.O.T.

0+00

See "C" line B 1669 P1

Indexed
C.S.K.

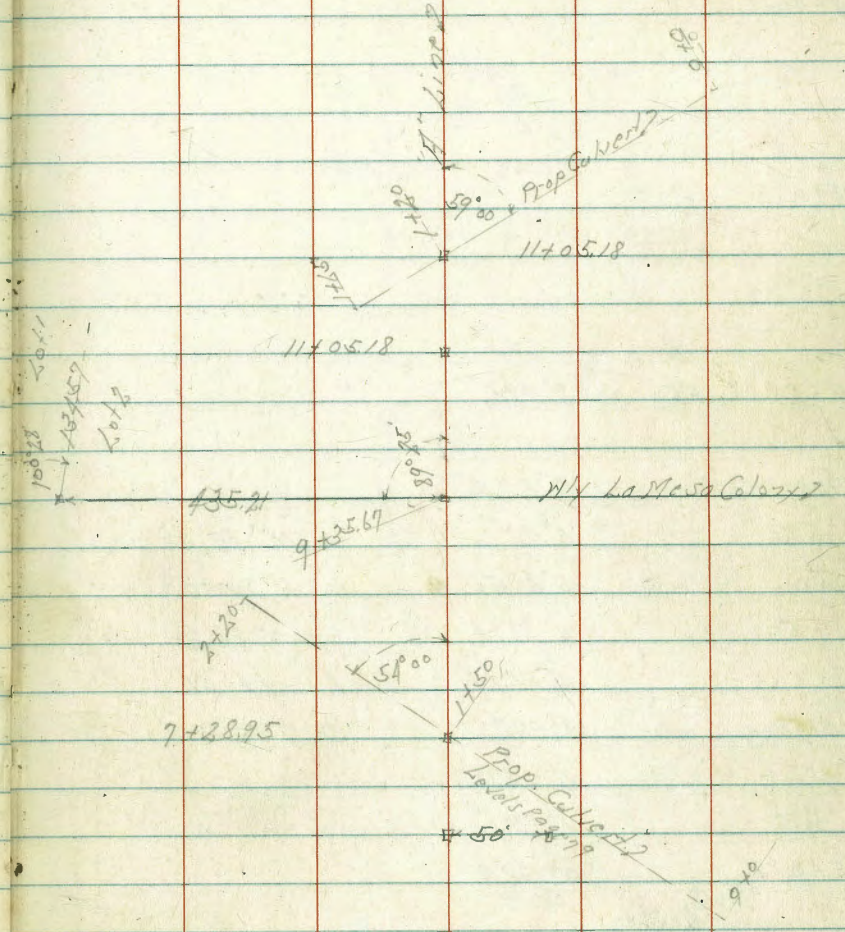


12+32.63 P.O.T.

9+37.77 New B.C.
Δ 12°12
NLR 1550
NT 165.65
L 330.03

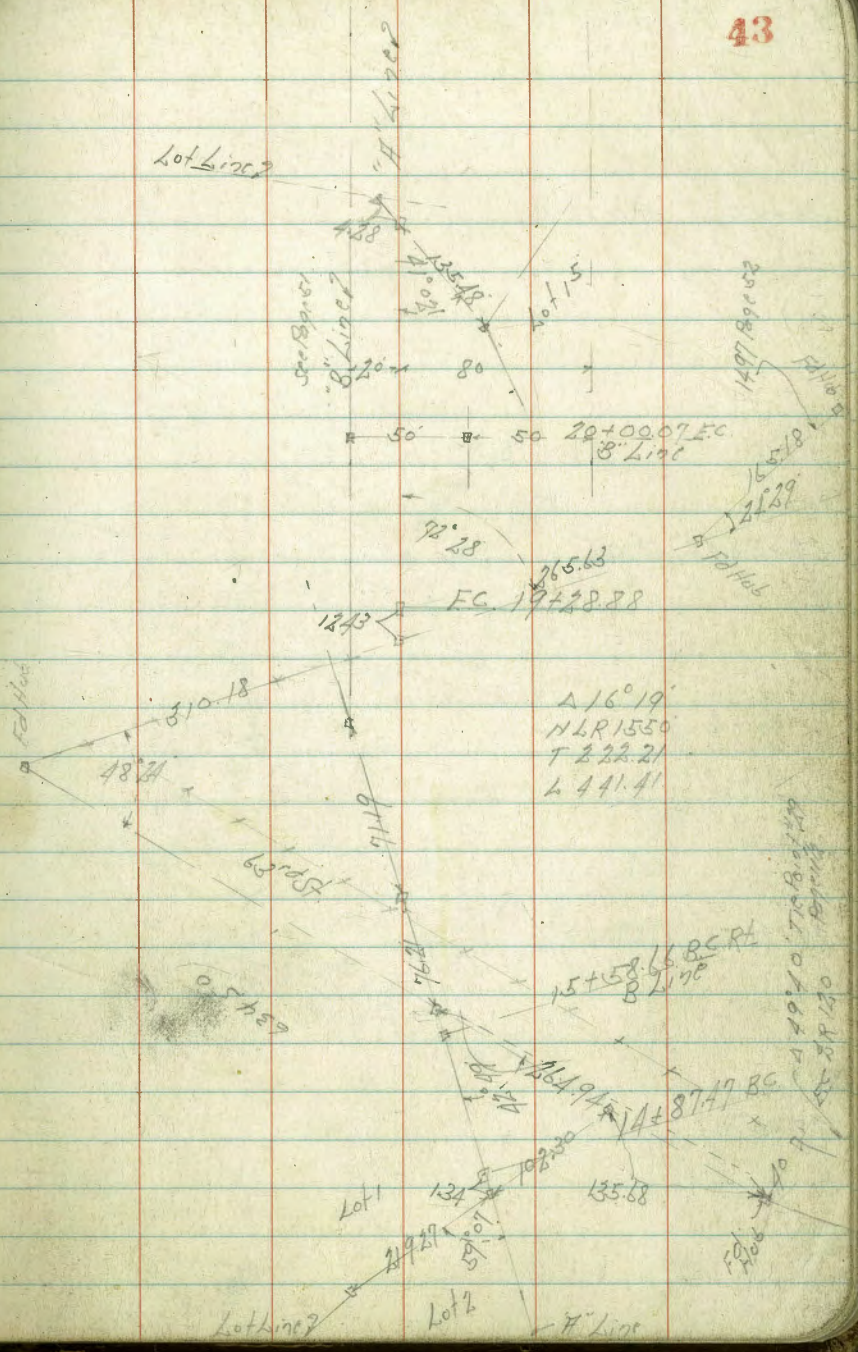
9+35.67

5+80 P.O.T.



Mission Valley Road Ext. "A" Line

24+19.33			
23+0	P.O.T.		
19+28.88	E.C.	8°09.5'	
19+0		7°37.4'	
+50		6°42'	Δ 16°19' Rt.
18+0		5°46.56'	N L R 1550.0
+50		4°51.12'	T 222.21
17+0		3°55.67'	L 441.41
+50		3°00.23'	D 1.1089
16+0		2°04.78'	
+50		1°09.34'	
15+0		0°13.9'	
14+87.47	B.C.R.		

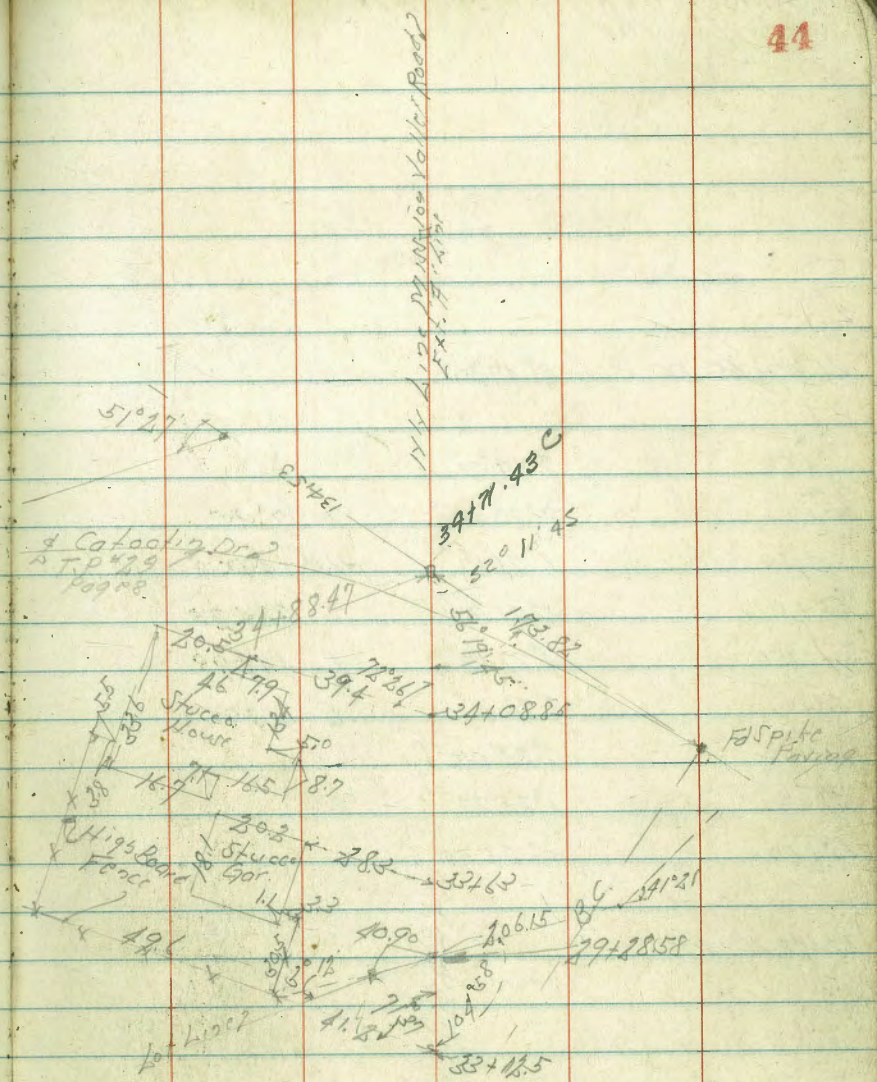


36+50 P.O.T.

34+88.47 P.O.T.

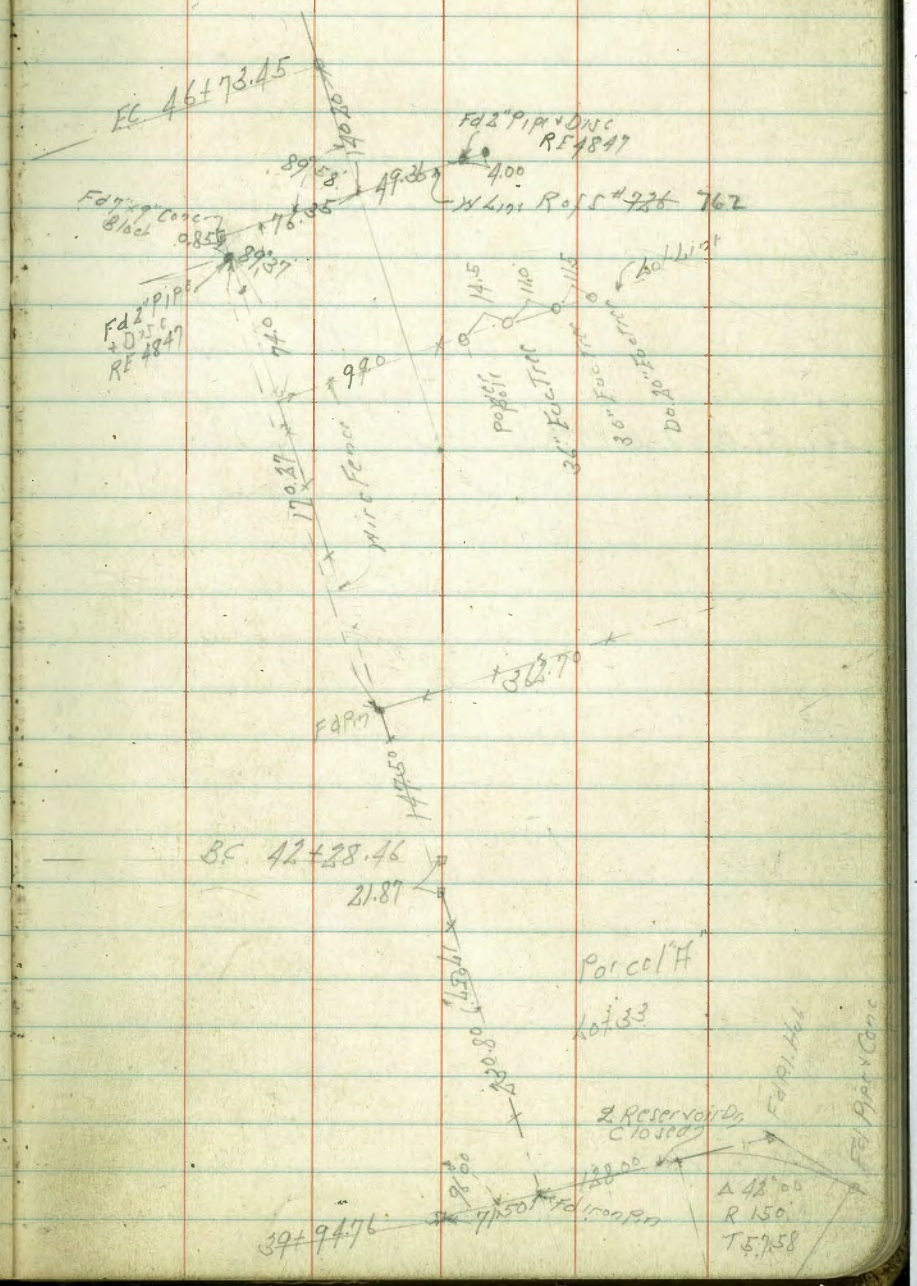
29+28.58

27+00 P.O.T.



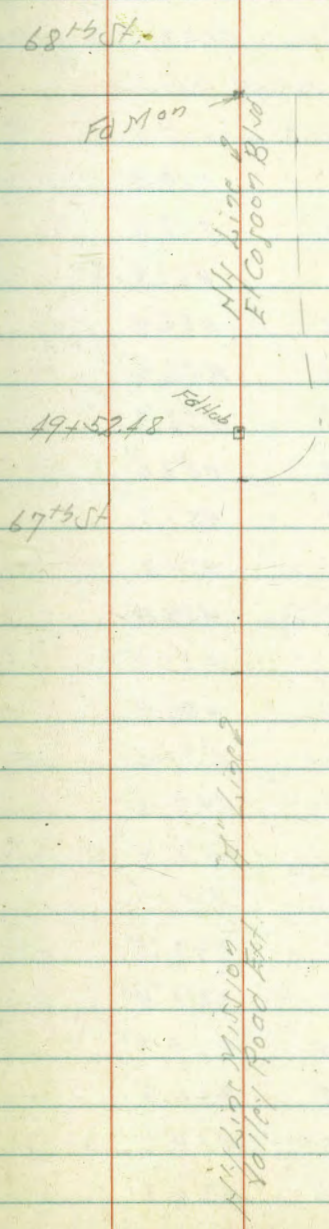
Mission Valley Road Ext.
"A" Line

46+73.45 E.C.	8°47.50"		
+50	8°19.71"		
46+0	7°20.44"	Δ	17°35
+50	6°21.17"	HSR	1450.0
45+0	5°21.90"	T	234.25
+50	4°22.63"	L	444.99
44+0	3°23.36"	D	1.1854
+50	2°24.09"		
43+0	1°24.82"		
42+50	0°25.55"		
42+28.46 B.C.			
39+94.76			



49+52.48 = E.L. 67th St.

47+12.48 P.O.T.



Mission Valley Road Ext. "A" Line
& Levels
North Line Stationing

BM	5.78	460.89		455.71	on EC. Hub 3+33.40 Old Line 1497.59
	0+0	to 1+25	Same as Old Line		
1+50			6.6	454.3	
2+0			5.4	455.5	
+50			4.1	456.8	
+75			5.5	455.4	
3+0			4.3	456.6	
+30			5.2	455.7	
+50			3.4	457.5	
+70			3.8	457.1	
4+0			6.6	454.3	
+50			6.5	454.4	
5+0			7.9	453.0	
+50			10.0	450.9	
TP	0.09	449.25	11.73	449.16	
+80			1.7	447.6	
6+0			5.4	443.9	
TP	0.19	438.06	11.38	437.87	
+50			5.6	432.5	
7+0			16.7	421.4	
+05			18.4	419.7	
+10			16.8	421.3	
+40			13.5	424.6	
8+0			1.3	436.8	

		438.06		July 2-42 Sisson N Moore Hazard	
TP	11.25	447.80	1.51	436.55	
8+50			5.7	442.1	
TP	10.74	457.80	0.74	447.06	
9+0			9.8	448.0	
+50			7.2	450.6	
10+0			4.5	453.3	
+50			4.6	453.2	
+80			6.5	451.3	
11+10			11.8	446.0	
+24			14.4	443.4	
+44			15.6	442.2	
+80			4.8	453.0	
TP	7.12	463.91	1.01	456.79	
12+0			5.6	458.3	
BM			4.03	459.88	on Hub 12+32.63 on N Line
+30			5.9	458.0	
+50			5.6	458.3	
13+0			4.8	459.1	
+20			6.1	457.8	
+40			5.0	458.9	
+55			6.6	457.3	
+75			5.1	458.8	
14+0			6.1	457.8	
+30			7.1	456.8	
+50			8.0	455.9	

		463.91			
14+87.47	BC. Rt		6.9	457.0	
15+0			8.0	455.9	
+30			9.6	454.3	
+50			7.7	456.2	
+75			7.5	456.4	
16+0			6.7	457.2	
+50			6.7	457.2	
TP	4.62	461.94	6.59	457.32	
17+0			5.1	456.8	
BM			5.58	456.36	on N.L. Pl. Hub 17+09.68
+50			5.0	456.9	
18+0			5.1	456.8	
+50			5.0	456.9	
19+0			4.5	457.4	
+28.88	E.C.		4.5	457.4	
+50			4.7	457.2	
20+0			5.5	456.4	
+50			6.7	455.2	
21+0			7.5	454.4	
+50			8.3	453.6	
22+0			8.7	453.2	
TP	1.22	454.88	8.28	453.66	
+50			3.0	451.9	
BM			5.49	449.39	on Stub 23+0 (on N.L.
23+0			7.4	447.5	

		454.88			
TP	1.46	444.34	12.00	442.88	
23+30			7.7	436.6	
+60			12.1	432.2	
24+0			10.7	433.6	
TP	9.95	453.80	0.49	443.85	
+50			11.8	442.0	
25+0			9.2	444.6	
+50			7.9	445.9	
26+0			5.3	448.5	
+50			4.0	449.8	
27+0			3.5	450.3	
BM			4.77	449.03	on Stub 27+0 Rot. N Line
+50			5.1	448.7	
28+0			8.4	445.4	
TP	5.39	448.03	11.16	442.64	
+50			6.5	441.5	
29+0			11.0	437.0	
+50			13.0	435.0	
+87 = N W'y Bldg			11.1	436.9	
30+0			9.6	441.4	
+50			4.4	443.6	
31+0			0.7	447.3	
TP	6.25	453.78	0.50	447.53	
+50			4.6	449.2	
32+0			4.0	449.8	

		453.78			
32+50			4.3	449.5	
33+0			4.7	449.1	
+50			4.3	449.5	
34+0			3.4	450.4	
+45 = Paving Catoctin Dr.			1.88	451.90	
35+0			2.6	451.2	
+50			3.1	450.7	
36+0			3.0	450.8	
+50			4.7	449.1	
TP	0.31	449.52	4.57	449.21	on Hub on Lt 36+18.93 old Line 449.36
37+0			7.8	441.7	
TP	0.05	438.00	11.57	437.95	
+50			5.8	432.2	
TP	0.01	425.82	12.19	425.81	
38+0			2.7	423.2	
+50			11.9	414.0	
TP	0.00	414.71	11.11	414.71	
+75			4.6	410.1	
+80			7.1	407.6	
39+0			11.2	403.5	
+15			13.0	401.7	
+50			14.7	400.0	
+56			15.1	399.6	
+66 = Bottom Gulch			17.5	397.2	
+76			15.7	399.0	

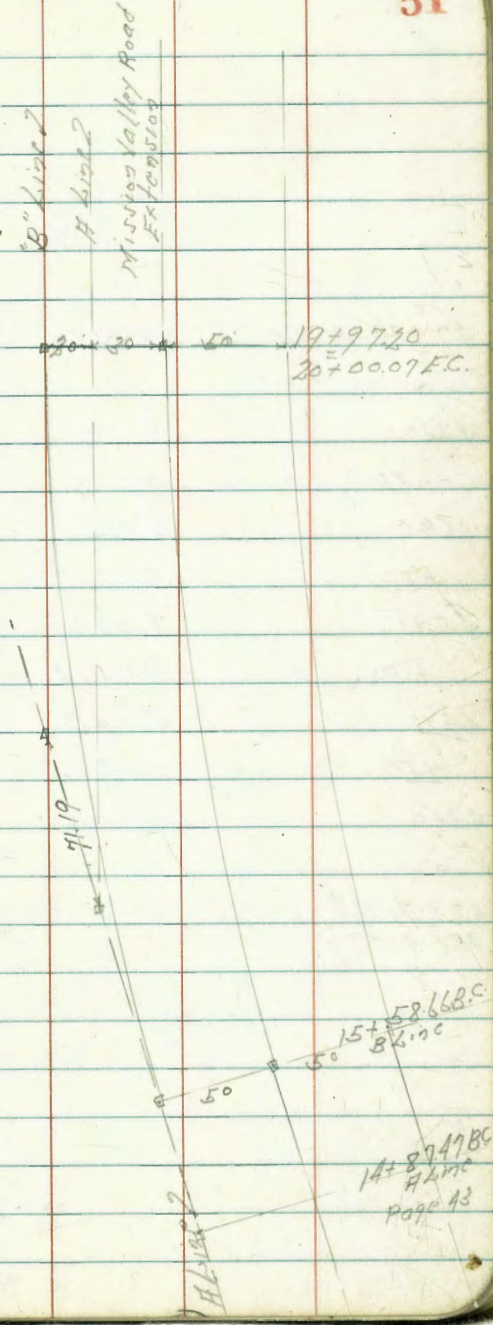
		414.71		Sul 21-42 Sisson Hazard Fox	
39+88			13.5	401.2	
40+0			11.1	403.6	
+50			1.2	413.5	
TP	10.91	425.39	0.23	414.48	
41+0			6.4	419.0	
TP	11.02	436.28	0.13	425.26	
+50			9.7	426.6	
42+0			0.5	435.8	
TP	12.24	448.51	0.01	436.27	
+28.46 BC Lt			6.97	441.54	on Z Stub
+50			3.9	444.6	
TP	7.26	455.71	0.06	448.45	
43+0			5.9	449.8	
+27 = Hly Sheds			4.6	451.1	
+60			4.0	451.7	
44+0			3.0	452.7	
+50			2.6	453.1	
TP	3.41	455.98	3.14	452.57	
45+0			3.0	453.0	
+50			3.5	452.5	
46+0			3.9	452.1	
+50			4.2	451.8	
+73.45 EC			4.6	451.4	
47+12			4.3	451.7	
+50			3.6	452.4	

		455.98			
48+0			3.5	452.5	
+50			2.4	453.6	
TP	5.72	459.63	2.07	453.91	
49+0	on Paving		6.0	453.6	
+52.48	" " E.L. 67		5.0	454.6	
BM			5.79	453.84	SW BP E1 Co 107 & 67 MSL 453.70

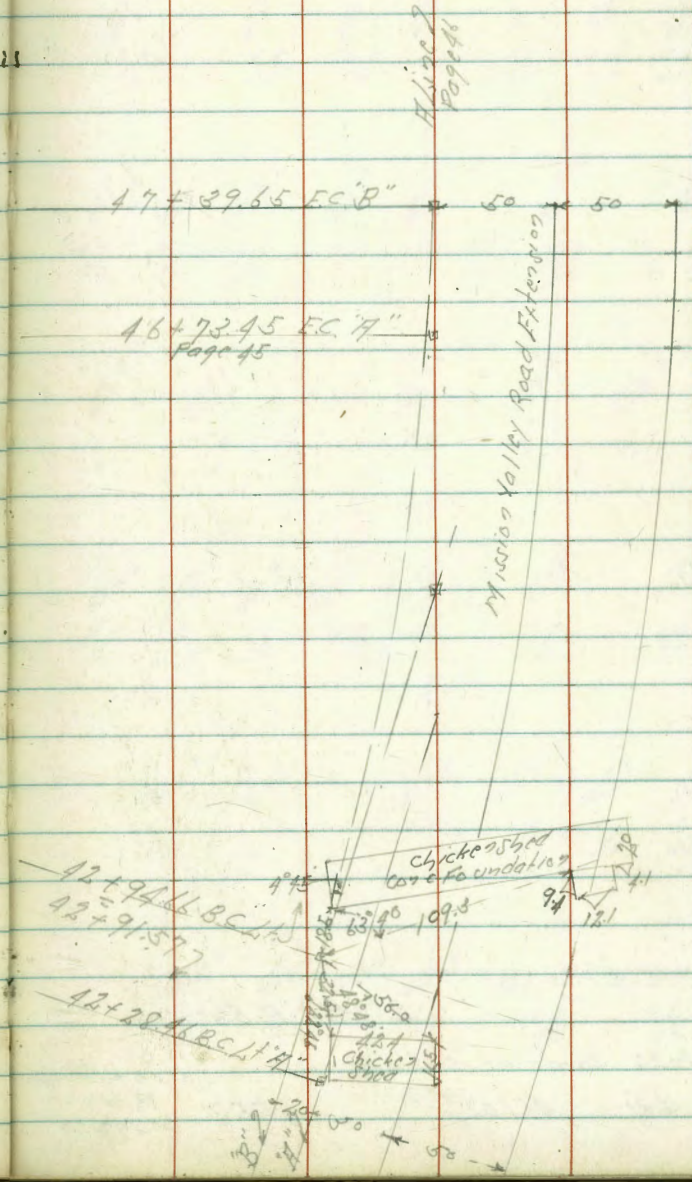
Mission Valley Road Extension "B" Line
From 14+87.47 to 67th St. + El Cajon Blvd.

April 10. 43
Sisson
Bliss
Bcgg

19+97.20			
20+00.07	E.C.	8° 09.50'	
+50		7° 13.96'	
19+0		6° 18.52'	Δ 16° 19' Rt
+50		5° 23.07'	H.L.R. 1550.0
18+0		4° 27.63'	T 222.21
+50		3° 32.18'	L 441.41
17+0		2° 36.74'	D 1.1089
+50		1° 41.29'	
16+0		0° 45.846'	
15+58.66	B.C. Rt.		



47+39.65	E.C.	8°47.50'		
47+0		8° 00.50'		
+50		7-01.22'	Δ	17°35'
46+0		6°01.95'	NLR	1450.0
+50		5°02.68'	T	224.25
45+0		4°03.41'	L	444.99
+50		3°04.14'	D	1.1854
44+0		2°04.87'		
+50		1°05.60'		
43+0		0°06.33'		
42+94.66	B.C. Lt			
42+91.57				



Cross Section Mission Valley Road Ext.
A Line 1+50 to 14+87.47
B Line 14+87.47 to 67th St + El Cajon Blvd.

April 12-43
Sisson
Bliss
Bogg

Lt. N | ℄ | Rt. S

2+60						455.8 5.2 50		455.5 5.5 25	455.6 5.4 10	456.9 4.1	457.2 3.8 15	455.6 5.4 25	455.6 5.4 35	457.8 3.2 45	457.7 3.3 50
2+40						455.3 5.7 50	457.2 3.8 35	458.1 2.9 25	455.8 5.2 10	455.7 5.3	455.3 5.7 25		455.0 6.0 50		
2+20						454.9 6.1 50	455.6 5.4 25			455.0 6.0	454.9 6.1 25	454.7 6.3 50			
2+0						454.6 6.4 50	455.4 5.6 25	456.4 4.6 20	457.2 3.8 10	456.0 5.0	454.8 6.2 10		455.0 6.0 25		455.9 5.1 50
1+80							454.7 6.3 50	454.6 6.4 25		454.4 6.6	454.5 6.5 15	455.8 5.2 25	457.3 3.7 35	456.5 4.5 50	
1+50				B. 1497 P 56			454.8 6.2 50	456.5 4.5 30	456.4 4.6 15	454.4 6.6	454.3 6.7 25	453.4 7.6 50			
0+0 to 1+25 Same as old Line															
BM	5.31	461.02		455.71	on old EC Hub 3+33.40 #1497-59					461.02					

EHB
5-26-43

							Lt		℄		Rt			
4+0							454.6 6.4 50	454.2 6.8 25	454.3 6.7	454.7 6.3 10	456.3 4.7 25	455.9 5.1 50		
3+75							454.6 6.4 50	453.9 7.1 25	454.7 6.3 10	456.4 4.6	456.9 4.1 15	456.1 4.9 25	455.0 6.0 35	454.6 6.4 50
3+50							454.0 7.0 50	454.6 6.4 25	455.2 5.8 15	457.5 3.5	457.6 3.4 10	455.9 5.1 25	455.3 5.7 30	455.7 5.3 50
3+30							457.2 3.8 50	456.7 4.3 40	454.9 6.1 25	455.6 5.4	455.6 5.4 25	455.8 5.2 40	457.7 3.3 50	
3+15							457.1 3.9 50	456.5 4.5 40	455.2 5.8 25	455.6 5.4 10	456.7 4.3	457.2 3.8 10	455.5 5.5 25	456.0 5.0 50
3+0							455.7 5.3 50	455.3 5.7 25	455.9 5.1 10	456.8 4.2	455.5 5.5 25	455.4 5.6 50		
2+85							455.3 5.7 50	455.3 5.7 25	455.5 5.5	455.5 5.5 25	456.6 4.4 50			
		461.02							461.02					

TP	0.23	444.48	11.54	444.25	OD Rock 35 N of NL 6+05
6+00					
5+75					
5+50					
5+00					
TP	2.58	455.79	7.81	453.21	
4+50					
4+25					
		461.02			

Lt. | ℄ | Rt

445.5	444.9	444.7	444.0	441.9	440.3	440.2
10.3 80	10.9 50	11.1 35	11.8	13.9 35	15.5 50	15.6 80
448.8	448.7	448.8	448.4	448.0	446.6	446.1
7.0 75	7.1 50	7.0 25	7.4	7.8 25	9.4 50	9.7 75
450.5	450.6	451.4	450.8	450.6	450.4	449.4
5.3 70	5.2 50	4.4 25	5.0	5.2 25	5.4 50	6.4 70
451.6	452.0	452.6	453.0	452.6	452.6	452.5
4.4 60	3.8 50	3.2 25	2.8	3.2 25	3.2 50	3.3 60
			455.79			
452.3	452.3	452.7	453.2	454.4	453.7	453.9	454.0
8.7 60	8.7 50	8.3 25	7.8 15	6.6	7.3 25	7.1 50	7.0 60
	452.0	454.6		454.8	454.0	454.3	
	9.0 50	6.4 25		6.2	7.0 25	6.7 50	
				461.02			

Mission Valley Road Ext.

							Lt.			℄			Rt		
T															
6	7+50				413.2 31.3 120	412.9 31.6 100	412.1 32.4 65 = Bot Gulch	416.7 27.8 50	421.0 23.5 25	421.2 23.3 20	425.5 19.0	433.1 11.4 25	436.7 7.8 50	439.0 5.5 80	
5	7+25						419.7 24.8 100	417.9 26.6 50	417.5 27.3 50	418.0 26.5 25	421.9 22.6	426.6 17.9 25	431.7 12.8 50	436.4 8.1 80	
5	7+0						427.2 17.3 100	425.1 19.4 50	423.1 21.4 25	421.9 22.6 15	421.1 23.4	421.7 22.8 5	426.2 18.3 25	432.0 12.5 50	436.5 8.0 80
5	6+75						431.5 13.0 100	432.1 12.4 50	430.5 14.0 25	426.5 18.0	425.5 19.0 25 = Bottom Gulch	431.7 12.8 50	437.9 6.6 80		
T															
4	6+50						437.2 7.3 80	438.3 6.2 50	435.6 8.9 25	433.7 10.8 15	432.6 11.9	431.2 13.3 25	432.3 12.2 50	430.8 13.7 62	436.6 7.9 80
3	6+25						441.0 3.5 80	441.7 2.8 50	440.7 3.8 25	438.8 5.7	436.7 7.8 25	436.4 8.1 50	436.9 7.6 80		
			444.48							444.48					

							Lt.			℄			Rt		
6	9+0						431.1 29.8 100	437.3 23.6 75	441.7 19.2 50	444.2 16.7 25	448.0 12.9	451.3 9.6 25	454.3 6.6 40	454.8 6.1 50	456.0 4.9 80
	TP	10.96	460.86	2.12	449.90						460.86				
5	8+80						430.6 21.4 100	434.5 17.5 75	438.5 13.5 50	442.0 10.0 25	447.1 4.9	450.3 1.7 25	452.7 +0.7 50	455.6 +3.6 80	
	TP	10.64	452.02	3.10	441.38						452.02				
5	8+50						423.6 20.9 100	428.8 15.7 75	436.0 8.5 50	440.3 4.2 25	442.2 2.3		445.9 +1.4 25	449.2 +4.7 50	453.2 +8.7 80
5	8+25						417.3 27.2 100	428.5 16.0 50	433.7 10.8 25	439.7 4.8	443.3 1.2 15	444.1 0.4 25	446.5 +2.0 50	451.0 +6.5 80	
4	8+0					411.2 33.3 120	414.2 30.3 100	423.6 20.9 50	431.0 13.5 25	436.8 7.7	438.2 6.3 15	440.7 3.8 25	443.5 1.0 50	448.0 +3.5 80	
	7+75					407.4 37.1 125	411.0 33.5 100	419.2 25.3 50	425.8 18.7 25	431.4 13.1	436.5 8.0 25	440.0 4.5 50	443.1 1.4 80		
			444.48								444.48				

	LT		RT	
10+50	428.9 6.0 / 100	435.1 25.8 / 75	442.1 18.8 / 50	447.9 5.0 / 25	453.2 2.7	455.1 5.8 / 25	457.7 3.3 / 50	457.7 3.5 / 80
10+25	430.5 30.4 / 100	439.1 21.8 / 75	443.3 17.6 / 50	449.4 11.5 / 25	453.9 2.0	455.7 5.2 / 25	458.5 2.4 / 50	458.7 3.3 / 65	467.4 3.5 / 80
10+0	431.7 29.2 / 100	437.8 20.1 / 75	444.1 16.8 / 50	449.1 11.8 / 25	453.4 7.5	456.0 4.9 / 25	456.9 4.0 / 50	458.8 3.1 / 65	458.9 3.0 / 80
9+75	432.6 28.3 / 100	440.6 20.3 / 70	443.5 17.4 / 50	448.8 12.1 / 25	450.9 10.0 / 15	452.3 8.6	455.7 5.2 / 25	457.3 3.6 / 50	459.0 1.9 / 65	458.7 3.7 / 80
9+50	432.6 28.3 / 100	440.5 20.4 / 70	442.4 18.5 / 50	446.8 14.1 / 25	450.6 10.3	453.8 7.1 / 25	456.3 4.6 / 50	457.8 3.1 / 80
9+25	432.2 28.7 / 100	440.3 20.6 / 15	442.6.8 15.1 / 25	449.8 11.1	452.6 8.3 / 25	456.1 4.8 / 50	457.7 3.3 / 80	

460.86

4424 / 50

460.86 ✓

Mission Valley Road Ext.

							Lt.			Rt	
7	TP	298	462.84	1.00	459.86	on Hub Rt. 12+82.63	456.7	456.0	454.6	456.5	456.4	456.2	455.3	453.8
							4.1 / 100	4.9 / 75	4.3 / 50	4.4 / 25	4.5	4.7 / 25	5.6 / 50	7.1 / 80
6	11+88						456.7	454.6	456.0	452.8	451.5	451.4	451.6	452.3
							5.2 / 100	5.6 / 75	4.9 / 50	8.1 / 25	9.4	9.5 / 25	9.2 / 50	8.6 / 80
5	11+50						451.0	449.0	447.6	445.3	443.7	445.4	449.4	453.4
							9.9 / 100	11.9 / 75	13.3 / 50	15.6 / 25	17.3	15.5 / 25	11.5 / 50	7.5 / 80
5	11+25						441.9	440.1	438.7	439.3	443.3	449.0	454.3	457.0	456.9
							19.0 / 100	20.8 / 75	22.2 / 50	21.6 / 25	17.6	11.9 / 25	6.6 / 50	3.9 / 70	4.0 / 80
4	11+0						433.8	434.9	435.3	440.6	448.3	454.5	457.3	457.4	457.3
							27.1 / 100	26.0 / 75	25.6 / 50	20.3 / 25	12.6	6.4 / 25	3.6 / 50	3.5 / 75	3.6 / 80
	10+75						426.6	431.7	438.0	445.5	451.7	455.6	457.3	458.0
							34.3 / 100	29.2 / 75	22.9 / 50	15.4 / 25	9.3	5.3 / 25	3.6 / 50	2.9 / 80
			460.86						460.86					

		Lt.				Rt		
7								
6	13+25	456.8	458.6	458.4	458.2	457.8	458.3	459.0
		6.0 / 60	4.2 / 50	4.4 / 25	4.6	5.0 / 25	4.5 / 50	3.8 / 60
5	13+0	457.6	458.0	457.7	457.9	458.9	458.9	460.5	459.1
		5.2 / 60	4.8 / 50	5.1 / 25	4.9 / 5	3.9	3.9 / 25	3.3 / 50	3.7 / 60
5	12+75	458.8	457.8	459.7	460.3	458.8	459.1	458.8	458.2	458.2
		4.0 / 60	5.0 / 50	3.1 / 35	2.5 / 25	4.0 / 10	3.7	4.0 / 25	4.6 / 50	4.6 / 60
5	12+50	457.6	458.0	457.7	458.2	459.0	458.1	457.7
		5.2 / 60	4.8 / 50	5.1 / 25	4.6	3.8 / 25	4.7 / 50	5.1 / 60
7								
4	12+25	457.8	459.3	458.3	457.4	458.0	457.9	457.7	457.5
		5.0 / 60	3.5 / 50	4.5 / 25	5.4 / 15	4.8	4.9 / 25	5.1 / 50	5.3 / 60
	12+10	457.2	457.4	457.1	459.0	458.6	457.2	456.9	458.2	458.1
		5.6 / 60	5.4 / 50	5.7 / 25	3.8	4.2 / 10	5.6 / 25	5.9 / 35	4.6 / 50	4.7 / 60
		462.84				462.84				

	Lt				Rt	
14+50	455.6 7.2 60	455.8 7.0 50	455.4 7.4 25	455.7 7.1 25	455.6 7.2 15	456.4 6.4 25	457.7 5.1 35	458.2 4.6 50	457.5 5.3 60
14+35	454.0 8.8 60	454.6 8.2 50	456.3 6.5 35	456.6 6.2 25	455.6 7.2 10	455.5 7.3 00	455.7 7.1 25	457.3 5.5 35	457.5 5.3 50	456.7 6.1 60
14+15	456.2 6.6 60	457.0 5.8 50	455.7 7.1 35	455.8 7.0 25	457.6 5.3 15	458.0 4.9	457.1 5.7 10	455.0 7.7 25	456.3 7.5 50	456.4 6.4 60
14+0	456.8 6.0 60	457.1 5.7 50	455.3 7.5 35	455.8 7.0 25	458.0 4.8 10	457.1 5.7	457.1 5.7 10	457.8 5.0 25	457.2 5.6 50	456.6 6.2 60
13+75	455.4 7.4 60	456.9 6.9 50	456.5 6.3 25	458.5 4.3 10	458.0 4.8	457.2 5.6 15	457.3 5.5 25	457.4 5.4 50	457.8 5.0 60
13+50	456.5 6.3 60	457.9 4.9 50	458.3 4.5 35	457.0 5.8 25	457.4 5.4	458.3 4.5 10	458.3 4.5 25	457.9 4.9 50	457.8 5.0 60

462.84

462.84

Mission Valley Road Ext.

	Lt		Rt	
15+58.66 = BC Rt =	457.4	456.3	456.6	456.3	455.8	455.7	455.9
	5.6/60	6.5/50	6.7/25	6.5	7.0/25	7.1/50	6.9/60
15+50	456.0	455.7	456.9	456.9	456.5	455.4	455.2	454.8	455.8
	6.8/60	7.1/50	6.9/25	6.9/25	6.3	7.4/10	7.6/25	8.0/50	7.0/60
15+25	456.2	455.5	455.2	454.5	454.2	454.6	454.8	456.6	456.6
	6.6/60	7.2/50	7.6/25	8.2/15	8.6	8.2/25	8.0/15	6.2/50	6.2/60
14+95	452.6	453.0	455.2	456.5	456.1	456.2	456.0	456.1
	10.2/60	9.8/50	7.6/25	6.5	6.7/10	6.6/25	6.8/50	6.7/60
14+75	453.0	454.7	454.9	456.3	457.2	457.6	457.6	456.0	456.0
	9.8/60	8.1/50	7.9/25	6.5/25	5.6	5.8/25	5.8/50	6.8/50	6.8/60
14+62	455.7	455.8	455.6	454.8	454.7	455.9	457.3	456.5	457.0	457.9	457.7
	7.1/60	7.0/50	7.2/40	8.0/25	8.1/25	6.9/10	5.5/00	6.3/25	5.8/25	4.9/50	5.1/60

462.84

462.84

18+00					
17+50					
TP	5.87	462.23	6.48	456.36	old P.I. Stub N.L.
17+00					
16+50					
16+00					
15+75					
		462.84			

Lt				Rt	
457.0	456.8	456.7	456.8	456.9	457.0	457.0
5.3 60	5.4 50	5.5 25	5.1	5.2 25	5.3 50	5.3 60
456.4	456.5	456.5	456.8	456.7	457.1	457.1
5.8 60	5.7 50	5.7 25	5.4	5.5 25	5.1 50	5.1 60
			462.23			
456.7	456.4	456.4	456.7	456.9	457.3	457.2
6.1 60	6.4 50	6.4 25	6.1	5.9 25	5.5 50	5.6 60
456.8	456.5	456.8	456.9	456.9	457.2	457.2
6.0 60	6.2 50	6.0 25	5.9	5.9 25	5.6 50	5.6 60
456.7	456.7	457.0	457.1	456.8	457.0	457.0
6.1 60	6.1 50	5.8 25	5.7	6.0 25	5.8 50	5.8 60
457.1	456.7	456.5	456.4	456.6	456.6	456.7
5.7 60	6.1 50	6.3 25	6.1	6.2 25	6.2 50	6.1 60
			462.84			

							L1		L		R1	
21+0						454.4 7.8 60	454.6 7.6 50	454.2 8.0 25	454.2 8.0	454.4 7.8 25	454.9 7.3 50	454.7 7.5 60
20+50						454.5 7.7 60	454.6 7.6 50	454.9 7.3 25	454.9 7.3	455.3 6.9 25	455.5 6.7 50	455.6 6.6 60
19+97.20 20+00.07	EC					455.5 6.7 60	455.6 6.6 50	455.8 6.4 25	456.15 6.08 07 Hub	456.5 5.7 25	456.5 5.7 50	456.7 5.5 60
19+50						456.4 5.8 60	456.6 5.6 50	456.8 5.4 25	457.1 5.1	457.2 5.0 25	457.7 4.5 50	457.8 4.4 60
19+0						457.6 4.6 60	457.5 4.7 50	457.8 4.4 25	457.7 4.5	457.4 4.8 25	457.3 4.9 50	457.3 4.9 60
18+50						457.5 4.7 60	457.3 4.9 50	457.1 5.1 25	457.2 5.0	456.9 5.3 25	456.9 5.3 50	457.1 5.1 60
		462.23							462.23			

Mission Valley Road Ext

Station					Lt	℄	Rt
23+50					440.3 (6.0/75), 442.0 (4.3/50), 441.8 (4.5/25), 440.0 (6.3/15)	436.6 (9.7)	434.0 (12.3/15), 433.5 (12.8/25), 433.9 (12.4/40), 435.1 (11.2/50), 440.4 (5.9/75)
23+30					444.0 (2.3/75), 444.7 (1.6/50), 445.7 (0.6/25), 445.5 (0.8/17)	441.4 (4.9)	437.8 (8.6/15), 436.0 (10.3/25), 435.1 (11.2/50), 434.8 (11.5/65), 436.5 (9.8/75)
TP	0.60	446.34 ✓	10.67	445.74 ✓		446.34	
23+0	P.O.T.				449.0 (7.1/60), 449.2 (7.2/50), 449.1 (7.3/25)	448.29 (8.12 on Hub)	447.3 (9.1/25), 443.5 (12.9/43), 441.3 (15.1/50), 437.7 (18.7/70)
22+50					452.4 (4.0/60), 452.5 (3.9/50), 452.7 (3.7/25)	452.6 (3.8)	452.1 (4.3/25), 451.0 (5.4/50), 451.2 (5.2/60)
TP	1.92	456.41 ✓	7.74	454.49 ✓		456.41	
22+0					454.1 (8.1/60), 454.6 (7.6/50), 454.5 (7.7/25)	454.1 (8.1)	453.2 (9.0/25), 452.4 (9.8/50), 452.2 (10.0/60)
21+50					455.5 (6.7/60), 454.6 (7.6/50), 454.2 (8.0/25)	453.6 (8.6)	453.3 (8.9/25), 453.2 (9.0/50), 453.2 (9.0/60)
		462.23				462.23 ✓	

25+0					
TP	9.49	452.59	2.24	444.10	
24+75					
24+50					
24+25					
24+0					
23+75					
		446.34			

Lt

439.8 439.5 440.7 441.6 442.5 445.2 448.1 448.8
13.8/75 14.1/50 13.9/25 12.0/25 11.1 8.1/25 4.5/50 4.8/60

435.2 433.5 437.8 441.4 443.9 447.2 447.8
11.1/75 10.8/50 8.1/25 4.9 2.4/25 +0.9/50 +1.5/60

438.1 431.9 434.9 439.1 442.9 447.1 448.2
18.2/100 14.4/50 11.4/25 7.2 3.4/25 +0.8/50 +1.9/60

438.7 428.5 429.1 431.6 433.8 439.2 444.9 446.1 448.2
17.6/100 17.8/75 17.2/50 14.7/25 12.5 7.1/25 1.4/43 0.2/50 +1.9/75

431.7 433.1 432.1 430.2 431.9 432.2 432.7 434.5 439.8 442.3
14.6/100 13.2/50 14.7/25 16.1/15 14.4/10 14.1 13.6/15 11.8/25 6.5/50 4.0/60

437.0 428.3 436.5 432.3 433.0 435.1 437.7 441.2 445.1
9.3/75 8.0/50 9.8/25 14.0 13.5/25 11.2/40 8.6/50 5.1/63 1.2/75

446.34

						Lt.			℄		Rt.	
27+50						445.4 5.5 60	445.7 5.2 50	446.7 4.2 25	447.9 3.0	449.1 1.8 25	449.8 1.1 50	450.0 0.9 60
TP	1.88	450.94 ✓	4.53	449.06 ✓	on stub 27+0 P.O.T. H Line of ℄ Line 449.03				450.94 ✓			
27+0						448.0 5.6 60	448.4 5.2 50	449.2 4.4 25	450.0 3.6	450.4 3.2 25	450.6 3.0 50	450.7 2.9 60
26+50						449.0 4.6 60	449.2 4.4 50	449.5 4.1 25	449.9 3.7	449.5 4.1 25	450.5 3.1 50	450.1 3.5 60
26+0						448.2 5.4 60	449.1 5.2 50	448.0 5.6 25	447.9 5.7	448.4 5.2 25	449.0 4.6 50	449.7 3.9 60
25+50						444.9 8.7 60	444.9 8.7 50	444.5 9.1 25	445.3 8.3	446.9 6.7 25	448.8 4.8 50	449.7 3.9 60
25+25						443.3 10.4 75	442.7 10.9 50	443.1 10.5 25	443.7 9.9	446.0 7.6 25	448.1 5.5 50	449.1 4.5 60
		453.59							453.59 ✓			

Mission Valley Road Ext.

						Lt		℄		Rt		
TP	12.75	451.41	4.75	438.66		436.9	436.4	436.1	435.5	436.1	436.7	437.1
29+75						6.5 / 80	7.0 / 50	7.3 / 25	7.9	7.3 / 25	6.7 / 50	6.3 / 70
						433.8	433.7	433.7	434.0	434.5	435.3	436.6	437.3
29+50						9.6 / 80	9.7 / 50	9.7 / 35	9.4 / 25	8.9	8.1 / 25	6.7 / 50	6.1 / 70
						432.0	433.1	433.5	434.6	436.1	437.6	438.3
29+25						11.4 / 80	10.3 / 50	9.9 / 25	8.8	7.3 / 25	5.8 / 50	5.1 / 70
						431.6	433.2	434.4	436.2	437.6	439.1	440.2
29+0						11.8 / 80	10.2 / 50	9.0 / 25	7.2	5.8 / 25	4.3 / 50	3.2 / 70
TP	2.96	443.41	10.49	440.45	on Stub ℄ B Line 28+50				443.41			
						434.8	436.6	438.4	439.9	441.7	443.1	443.9
28+50						16.1 / 75	14.3 / 50	12.5 / 25	11.0	9.2 / 25	7.8 / 50	7.0 / 60
						439.5	441.2	442.8	444.3	445.7	447.0	445.8
28+0						11.4 / 75	9.7 / 50	8.1 / 25	6.6	5.2 / 25	3.9 / 50	5.1 / 60
		450.94							450.94			

	Lt.		℄	Rt.	
	447.5	447.8	448.4	449.0	449.6	445.4	449.6
31+50	2.9 60	3.6 50	3.0 25	2.4	1.8 25	2.0 50	1.8 70
	447.2	447.7	447.7	447.9	447.7	447.6	447.4
31+0	4.2 70	3.7 50	3.7 25	3.5	3.7 25	3.8 50	4.0 70
	446.8	446.6	446.4	446.3	446.1	446.0	446.2
30+75	4.6 60	4.8 50	5.0 25	5.1	5.3 25	5.4 50	5.2 70
	445.2	445.0	444.6	444.4	443.9	443.4	443.8
30+50	6.2 60	6.4 50	6.8 25	7.0	7.5 25	8.0 50	7.6 70
	442.8	442.3	441.8	441.3	440.8	441.1	441.3
30+25	8.6 25	9.1 50	9.6 25	10.1	10.6 25	10.3 50	10.1 70
	439.5	439.2	438.5	438.1	438.5	438.7	439.5	438.7
30+0	11.9 25	12.2 50	12.9 25	13.2 50	12.9	12.7 25	11.9 50	12.7 70

451.41

451.41 ✓

						Lt.			℄			Rt.	
34+25		26.0' Rt of ℄ = Power + Tel Pole				451.2	451.2	451.1	451.1	451.5	451.6	651.9	651.9
						5.1 / 60	5.1 / 50 = Hl + Dirt Drive	5.2 / 25	5.2	4.8 / 25	4.7 / 40 = Hl + Pav	4.4 / 50	4.4 / 70 = Ely Pav
34+0						457.0	450.9	450.7	449.5	450.3	450.5	450.9	
						5.3 / 60	5.4 / 50 = Dirt Drive	5.6 / 25	5.8	6.0 / 25	5.8 / 50	5.4 / 70	
33+50						449.8	449.8	449.6	449.5	449.6	450.0	450.4	
						6.5 / 60	6.5 / 50	6.7 / 25	6.8	6.7 / 25	6.3 / 50	5.9 / 70	
TP	7.68	456.29 ✓	2.80	448.61 ✓					456.29				
33+0						448.6	448.5	448.4	448.6	449.0	449.4	449.8	
						2.8 / 60	2.9 / 50	3.0 / 25	2.8	2.4 / 25	2.0 / 50	1.6 / 70	
32+50						447.2	447.3	447.8	448.6	449.6	450.0	450.3	
						4.2 / 60	4.1 / 50	3.6 / 25	2.8	1.8 / 25	1.4 / 50	1.1 / 70	
32+0						446.8	447.1	448.2	449.2	449.8	450.0	450.1	
						4.6 / 60	4.3 / 50	3.2 / 25	2.2	1.6 / 25	1.4 / 50	1.3 / 70	
		451.41							451.41 ✓				

Mission Valley Road Ext.

						Lt.		℄		Rt.		
TP	0.49	446.37	10.41	445.88		450.2	450.1	449.7	449.2	449.0	449.2	449.1
36+50						6.1 / 60	6.2 / 50	6.6 / 25	7.1	7.3 / 25	7.1 / 50	7.2 / 70
BM			7.11	449.78	on Hub on 36+18.93 old Line Page 49	451.8	451.8	451.0	450.8	450.4	450.1	449.9
36+0						4.5 / 60	4.5 / 50	5.3 / 25	5.5	5.9 / 25	6.2 / 50	6.4 / 70
35+50						451.9	451.7	451.3	451.1	450.8	450.9	450.5
						4.4 / 60	4.6 / 50	5.0 / 25	5.2	5.5 / 25	5.4 / 50	5.8 / 70
35+0						451.7	451.9	451.4	451.3	451.2	451.1	451.2
						4.6 / 60	4.4 / 50	4.9 / 25	5.0	5.1 / 25	5.2 / 50	5.1 / 70
34+75						451.8	451.8	451.1	451.6		451.7	451.6	451.7
						4.6 / 60	4.6 / 50 = Fly Pav.	5.2 / 25	4.7		4.6 / 25	4.7 / 50	4.6 / 70
34+50						451.3	451.3	451.5	451.9	451.8	451.8	451.0	451.3	451.7
						5.0 / 60	5.0 / 50	4.8 / 25 = Fly Pav.	4.4 on Pav.	4.5 / 22 = Fly Pav.	4.5 / 30	5.3 / 45	5.0 / 50	4.6 / 70
		456.29							456.29			

						Lt.			℄			Rt		
TP	1.10	411.19	12.67	410.09	on Rock 38+77 20' Rt of ℄	411.5	411.6	411.6	411.7	410.1	409.3	407.5	408.2	409.8
38+75						11.3 / 100	11.2 / 75	11.2 / 50	11.1 / 25	12.7	13.5 / 25	15.3 / 50	14.6 / 70	13.0 / 100
38+50						416.1	416.0	415.7	414.9	414.7	414.2	413.6	414.3	415.5
						6.7 / 90	6.8 / 70	7.1 / 50	7.9 / 25	8.1	8.6 / 25	9.2 / 50	8.5 / 70	7.3 / 90
									422.76					
TP	1.33	422.76	12.92	421.43										
38+0						424.1	423.5	422.7	422.8	422.9		423.8		424.8
						10.3 / 80	10.9 / 50	11.7 / 25	11.6	11.5 / 25		10.6 / 50		9.6 / 80
									434.35					
TP	0.38	434.35	12.40	433.97										
37+50						434.1	433.3	432.7	432.7	432.5		432.2		433.7
						12.3 / 75	13.1 / 50	13.7 / 25	13.7	13.9 / 25		14.2 / 50		12.7 / 80
37+0						442.4	442.3	442.1	442.1	441.6		441.5		441.7
						4.0 / 60	4.1 / 50	4.3 / 25	4.3	4.8 / 25		4.9 / 50		4.7 / 70
36+75						447.1	446.9	447.1	446.2	445.5		446.2		446.7
						+0.7 / 60	+0.5 / 50	+0.7 / 25	0.2	0.9 / 25		0.2 / 50		+0.2 / 70
		446.37							446.37					

April 22-43

Sissot
Bliss
BC99

73

		Lt.			℄			Rt		
40+05	397.8 13.4 110	398.0 13.2 100	399.5 11.7 75	401.2 10.0 50	402.6 8.6 25	403.4 7.8	405.1 6.1 25	405.8 5.4 50	405.6 5.6 75	405.0 6.2 110
39+85		396.6 14.6 110	398.3 12.9 75	399.2 12.0 50	400.4 10.8 25	400.8 10.4	401.4 9.8 25	401.8 9.4 50	402.6 8.7 75	402.9 8.3 100
39+67		395.8 15.4 110	396.8 14.4 75	396.9 14.3 50	397.3 13.9 25	397.4 13.8	397.6 13.6 25 =Bot	399.5 11.7 50	400.7 10.5 75	401.4 9.8 100	401.4 9.8 110
39+50		396.8 14.4 110	396.8 14.4 100	397.3 13.9 75	398.3 12.9 50	399.2 12.0 25	399.9 11.3	400.1 11.1 25	400.4 10.8 50	399.6 11.6 75 =Bot Wash	399.5 11.7 100	399.7 11.5 110 =Bot Wash
39+25		401.1 10.1 100	401.5 9.7 75	399.8 11.4 50	400.0 11.2 25	400.8 10.4	401.4 9.8 25	401.9 9.3 50	402.4 8.8 75	402.4 8.8 100
39+0		404.8 6.4 100	405.4 5.8 75	407.3 3.9 50	407.6 3.6 25	407.0 4.2 15	404.0 7.2 0.0	403.3 7.9 25	403.5 7.7 50	403.6 7.6 75	405.3 5.9 100

411.19

411.19

TP	12.90	447.24	0.46	434.34	
41+50					
41+25					
TP	12.01	434.80	0.29	422.79	
41+0					
40+75					
40+55					
TP	12.36	423.08	0.47	410.72	
40+25					
		411.19			

Lt. 2 Rt.

427.2	427.8	427.3	428.2	426.7	426.3	425.7	424.7	423.7
7.6 100	7.8 75	7.5 50	6.6 25	8.1	8.5 25	9.1 50	10.1 75	11.1 100
423.3	422.8	423.7	422.6	422.8	422.5	421.8	420.9	420.1
11.5 100	12.0 75	12.1 50	12.2 25	12.0	12.3 25	12.0 50	12.9 75	13.7 100
				431.80				
419.1	419.2	419.5	419.0	419.5	419.1	418.1	417.6	416.7
4.0 100	3.9 75	3.6 50	4.1 25	3.6	4.0 25	5.0 50	5.5 75	6.4 100
417.5	416.3	416.8	416.0	417.1	415.7	415.4	414.7	414.2
5.6 100	6.8 75	6.3 50	7.1 25	6.6	7.4 25	7.7 50	8.4 75	8.9 100
412.7	413.6	414.2	414.8	414.5	413.5	413.6	412.8	412.5
10.4 100	9.5 75	8.9 50	8.5 25	8.6	9.6 25	9.5 50	10.3 75	10.6 100
				423.08				
404.9	406.6	408.1	408.7	410.5	408.2	409.3	409.2	408.6
6.3 100	4.6 75	3.1 50	2.5 25	0.7	3.0 25	1.9 50	2.0 75	2.6 100
				411.19				

						Lt		℄		Rt	
43+50						452.1 5.1/65	452.1 5.1/50	452.1 5.1/25	452.2 5.0	452.2 5.0/25	452.3 4.9/50	452.1 5.1/65
TP	5.00	457.18	3.62	452.18					457.18			
43+25						451.6 4.2/75	451.3 4.5/50	450.9 4.9/25	450.7 5.1	450.3 5.5/25	449.6 6.2/50	448.4 7.4/75
42+94.66 42+91.57	BC Lt					451.2 4.6/75	450.7 5.1/50	449.9 5.9/25	449.0 6.8	448.6 7.2/25	447.7 8.1/50	446.8 9.0/75
TP	9.36	455.80	0.80	446.44					455.80			
42+50						446.5 0.7/75	446.0 1.2/50	445.2 2.0/25	444.6 2.6	444.7 2.5/25	443.6 3.6/50	441.9 5.3/75
42+30						443.9 3.3/75	443.4 3.8/50	442.4 4.8/25	441.6 5.6	441.5 5.7/25	440.6 6.6/50	438.3 8.9/75
BM			5.81	441.43	on ℄ Stub 42+28.46 "A" Page 49 441.54							
42+0						438.0 9.2/100	437.9 9.3/75	437.5 9.7/50	437.3 9.9/25	436.2 11.0	435.4 11.8/25	434.4 12.8/50	433.0 14.2/75	431.2 16.0/100
		447.24							447.24			

46+70	16' Rt of Δ = 8" Diameter	
46+50	16' Rt of Δ = 6" Diameter	
46+0		
45+50		
45+0		
44+50		
44+0		
	457.18	

Lt		Δ		Rt	
450.0	450.0	450.5	451.4	451.7	451.9	452.0	451.9
7.2 / 60	7.2 / 60	6.7 / 55	5.8	5.5	5.4 / 55	5.2 / 60	5.3 / 65
450.0	450.4	451.1	451.9	452.2	452.4	452.4
7.2 / 65	6.8 / 60	6.1 / 55	5.2	5.0 / 55	4.8 / 60	4.8 / 60
450.9	451.3	452.0	452.3	452.5	452.5	452.3
6.3 / 65	5.9 / 60	5.2 / 55	4.9	4.7 / 55	4.7 / 60	4.9 / 65
452.2	452.0	452.2	452.8	453.0	452.9	453.0
5.0 / 65	5.2 / 60	5.0 / 55	4.4	4.2 / 55	4.3 / 60	4.2 / 65
452.0	452.2	452.7	452.9	453.0	453.2	453.0
5.2 / 65	5.0 / 60	4.5 / 55	4.3	4.2 / 55	4.0 / 60	4.2 / 65
452.0	452.3	452.6	452.6	452.8	452.7	452.5
5.2 / 65	4.9 / 60	4.6 / 55	4.6	4.4 / 55	4.5 / 60	4.7 / 65
			457.18 ✓			

49+12.48 = W Cb 67th St.					
49+0					
TP BM	5.87	459 462.56	4.62	453.69 ✓	SW BP El Cajon Blvd + 67th St. 453.70
48+60	10' Rt of ℄ = ℄ Power Tel Pole				
48+50					
48+39	4.5 Lt of ℄ = 18' Euc. Tree				
48+10					
47+99	13' Rt of ℄ = 12" olive Tree				
47+55	13.5 Rt of ℄ = 7" olive Tree				
47+39.65	EC.				
TP	5.98	458.31 ✓	4.85	452.33 ✓	
47+15	14' Rt of ℄ = 8" Olive Tree				
47+0					
46+92	15' Rt of ℄ = olive tree				
		457.18			

Garden No Tree on Pasing

	Lt		℄		Rt.	
452.3	452.4	452.56	453.09	453.72	454.19	453.89
7.3 / 60	7.2 / 50	7.00 / 48.4 = Hly Cb + Paving	6.47 / 25 on Pav	5.84 on Pav	5.37 / 25 on Pav	5.67 / 50 on Pav
452.6	452.7	453.2	453.33	453.41	454.07	453.88
7.0 / 60	6.9 / 50	6.4 / 25	6.23 / 25 = Hly Pav	6.15 on Pav	5.19 / 25 on Pav	5.68 / 50 on Pav
			459 ~~462~~.56			
452.8	452.8	452.7	453.0	453.4	453.51	452.89	453.43	453.60
5.5 / 60	5.5 / 50	5.6 / 25	5.3 / 5	4.9	4.80 / 15.2 = Cb Top	5.42 / 15.2 = Gut	4.88 / 25 on Pav	4.71 / 50 on Pav
452.7	452.5	452.5	452.3	452.6	452.0	451.45	453.17
5.6 / 60	5.8 / 50	5.8 / 25	6.0 / 5	5.6	5.2 / 20	5.86 / 28 = N Cb In Drive on Pav.	5.14 / 50 on Pav
451.0	451.1	451.6	451.6	452.0	451.8	452.1	452.14	451.45
7.3 / 60	7.2 / 50	6.6 / 25	6.7 / 5	6.3	6.5 / 25	6.2 / 50	6.17 / 60 = Top Cb El Cajon	6.86 / 60 = Gutter
			458.31				
750.1	750.0	451.0	451.1	451.7	451.4	451.6	451.8
7.1 / 60	7.2 / 50	6.2 / 25	6.1 / 5	5.5 / 0.0	5.8 / 25	5.6 / 50	5.4 / 65
			457.18				

49+81 = CL PBC on N CL Line

49+52.48 = E CL 49+45.4

49+42.48 = E CL 49+35.4

49+32.48 = E CL 49+25.4

462.56

Lt		Rt
455.0		
4.6		5.6
5.0		
455.2		
4.4		
2.5		
455.04		
4.52		
19-CL Top		
454.47		
5.09		
19-Gut Bot		
454.81		
4.05		
50 on Pav.		
454.73		
4.83		
25 on Pav.		
454.05		
5.51		
45-Sty Pav.		
453.1		
6.45		
1.60		
453.8		
5.58		
5.50		
454.58		
4.98		
25-8-CL		
454.00		
5.56		
25-8-Gut Bot		
454.40		
5.16		
50 on Pav.		
454.52		
5.04		
25 on Pav.		
453.57		
6.02		
50 on Pav.		
452.8		
5.18		
7.0		
453.2		
6.1		
5.0		
453.57		
5.99		
48-N Hwy CL		
452.93		
6.63		
48-Gut Bot		
453.78		
5.28		
25 on Pav.		
454.31		
5.25		
454.47		
5.09		
25 on Pav.		
453.73		
5.83		
50 on Pav.		
453.16		
6.41		
50 on Pav.		
453.53		
6.03		
25 on Pav.		
454.0		
5.54		
454.35		
5.21		
25 on Pav.		
453.85		
5.71		
50 on Pav.		
459		
462.56		

℄ Levels Proposed Culvert 7+28.95
Mission Valley Road Ext

See Sketch Page 42

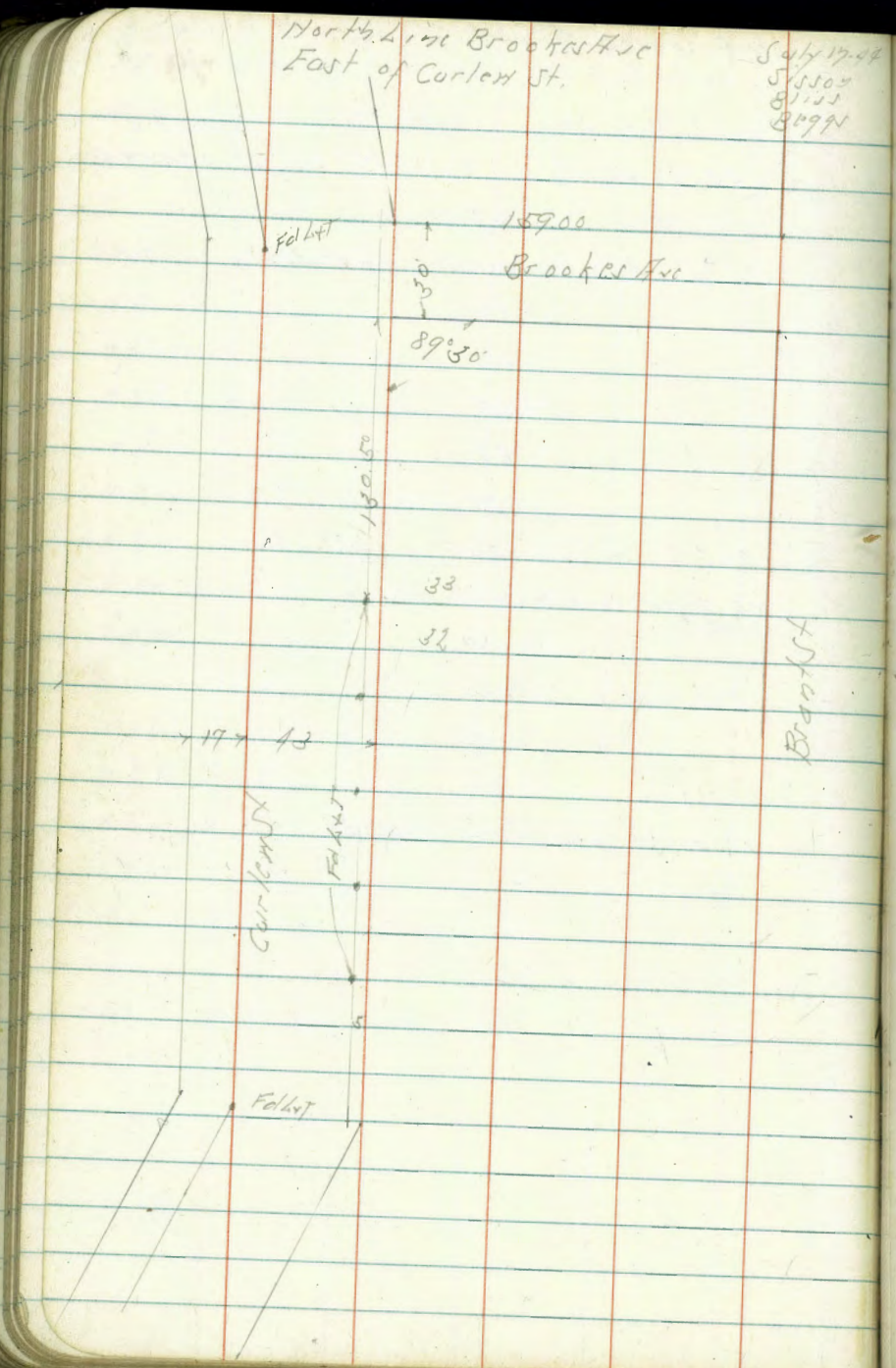
BM	1.14	445.39		444.25	on Rock 25' N of N.L. 6+05 P55
TP	0.63	433.07	12.95	432.44	
0+0	= Bottom Wash		+0.5		
+19	" "		2.4		
+50	" "		6.1		
+65	" "		9.5		
+80			9.8		
+80	4' Rt = Bot. Wash		11.0		
1+0			11.4		
1+0	10' Rt = Bot Wash		13.5		
+20			13.3		
TP	0.49	420.74	12.82	420.25	
+35			1.6		
+50	= N.L.		3.52		
+50	12' Rt = Bot Wash		6.1		
+80			6.0		
2+0			8.8		
+20			10.7		
+20	5' Rt = Bot Wash		12.0		

℄ Levels Proposed Culvert 11+05.18
Mission Valley Road Ext

See Sketch Page 42

BM	1.53	461.39		459.86	on Hub N.L. 12+32.63 P59
0+0			11.9		
TP	0.67	448.99	13.07	448.32	
+20			2.0		
+50			5.1		
+70			6.5		
+85			8.8		
1+08			12.9		
TP	2.02	438.66	12.35	436.64	
+20	= N.L. Mission Valley Rd 11+05.18		3.55		on Hub
+45			7.5		
+55			9.1		
+65			10.5		

Culverts Con't #1631 Page 66



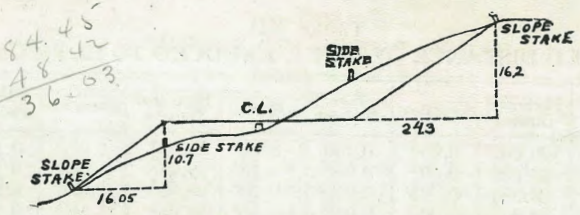
IMPROVED TABLES AND INFORMATION

HORIZONTAL STADIA CORRECTIONS

2°—00′	—	0.1	21°—00′	—	12.8	33°—00′	—	29.7
3°—00′	—	0.3	21°—30′	—	13.4	33°—15′	—	30.1
4°—00′	—	0.5	22°—00′	—	14.0	33°—30′	—	30.5
5°—00′	—	0.8	22°—30′	—	14.7	33°—45′	—	30.9
6°—00′	—	1.1	23°—00′	—	15.3	34°—00′	—	31.3
7°—00′	—	1.5	23°—30′	—	15.9	34°—15′	—	31.7
8°—00′	—	1.9	24°—00′	—	16.5	34°—30′	—	32.1
9°—00′	—	2.5	24°—30′	—	17.2	34°—45′	—	32.5
10°—00′	—	3.0	25°—00′	—	17.9	35°—00′	—	32.9
10°—30′	—	3.3	25°—30′	—	18.6	35°—15′	—	33.3
11°—00′	—	3.6	26°—00′	—	19.2	35°—30′	—	33.7
11°—30′	—	4.0	26°—30′	—	19.9	35°—45′	—	34.1
12°—00′	—	4.3	27°—00′	—	20.6	36°—00′	—	34.6
12°—30′	—	4.7	27°—30′	—	21.3	36°—15′	—	35.0
13°—00′	—	5.1	28°—00′	—	22.0	36°—30′	—	35.4
13°—30′	—	5.5	28°—30′	—	22.8	36°—45′	—	35.8
14°—00′	—	5.9	29°—00′	—	23.5	37°—00′	—	36.2
14°—30′	—	6.3	29°—30′	—	24.3	37°—15′	—	36.6
15°—00′	—	6.7	30°—00′	—	25.0	37°—30′	—	37.1
15°—30′	—	7.2	30°—15′	—	25.4	37°—45′	—	37.5
16°—00′	—	7.6	30°—30′	—	25.8	38°—00′	—	37.9
16°—30′	—	8.1	30°—45′	—	26.2	38°—15′	—	38.3
17°—00′	—	8.5	31°—00′	—	26.5	38°—30′	—	38.7
17°—30′	—	9.0	31°—15′	—	26.9	38°—45′	—	39.1
18°—00′	—	9.5	31°—30′	—	27.3	39°—00′	—	39.6
18°—30′	—	10.1	31°—45′	—	27.7	39°—15′	—	40.0
19°—00′	—	10.6	32°—00′	—	28.1	39°—30′	—	40.5
19°—30′	—	11.2	32°—15′	—	28.5			
20°—00′	—	11.7	32°—30′	—	28.9			
20°—30′	—	12.3	32°—45′	—	29.3			

Chains to Feet	
1	66
2	132
3	198
4	264
5	330
6	396
7	462
8	528
9	594
10	660

Feet to Chains	
100	1.515
200	3.030
300	4.545
400	6.060
500	7.575
600	9.090
700	10.606
800	12.121
900	13.636
1,000	15.151



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1½ TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0 00	0 15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1 65	1 80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3 45	3.60	3 75	3.90	4.05	4.20	4 35	2
3	4.50	4 65	4.80	4.95	5.10	5 25	5 40	5.55	5.70	5.85	3
4	6.00	6 15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7 50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9 00	9 15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10 65	10.80	10.95	11.10	11.25	11.40	11.55	11 70	11.85	7
8	12.00	12 15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13 50	13.65	13 80	13 95	14.10	14.25	14.40	14 55	14.70	14.85	9
10	15.00	15 15	15 30	15 45	15.60	15.75	15.90	16.05	16.20	16 35	10
11	16 50	16 65	16 80	16.95	17 10	17.25	17.40	17.55	17.70	17.85	11
12	18 00	18.15	18.30	18 45	18.60	18 75	18.90	19.05	19.20	19 35	12
13	19 50	19 65	19.80	19.95	20.10	20.25	20 40	20.55	20.70	20.85	13
14	21.00	21 15	21.30	21.45	21 60	21.75	21.90	22 05	22 20	22 35	14
15	22 50	22 65	22 80	22 95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24 15	24 30	24 45	24.60	24.75	24 90	25 05	25.20	25.35	16
17	25.50	25 65	25.80	25 95	26.10	26 25	26 40	26.55	26.70	26.85	17
18	27.00	27 15	27.30	27 45	27.60	27.75	27.90	28.05	28 20	28.35	18
19	28 50	28 65	28 80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30 00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31 50	31 65	31.80	31.95	32 10	32 25	32.40	32.55	32 70	32 85	21
22	33 00	33 15	33 30	33 45	33.60	33 75	33.90	34.05	34.20	34.35	22
23	34 50	34 65	34.80	34.95	35.10	35 25	35 40	35.55	35.70	35 85	23
24	36.00	36 15	36.30	36 45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37 80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39 00	39 15	39.30	39 45	39 60	39.75	39.90	40.05	40.20	40.35	26
27	40 50	40 65	40 80	40.95	41.10	41.25	41 40	41.55	41.70	41.85	27
28	42 00	42 15	42.30	42.45	42.60	42 75	42.90	43.05	43.20	43.35	28
29	43 50	43 65	43.80	43 95	44.10	44 25	44 40	44.55	44.70	44 85	29
30	45 00	45 15	45.30	45 45	45.60	45.75	45.90	46.05	46 20	46.35	30
31	46.50	46.65	46.80	46 95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48 00	48.15	48.30	48 45	48.60	48 75	48.90	49.05	49 20	49.35	32
33	49.50	49 65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51 00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52 50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54 00	54.15	54.30	54 45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55 50	55 65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57 45	57.60	57.75	57.90	58.05	58.20	58 35	38
39	58 50	58.65	58 80	58.95	59.10	59 25	59.40	59 55	59.70	59.85	39
40	60 00	60.15	60 30	60 45	60 60	60.75	60 90	61.05	61 20	61.35	40
41	61.50	61 65	61 80	61 95	62 10	62 25	62.40	62 55	62 70	62.85	41
42	63 00	63.15	63 30	63 45	63 60	63 75	63 90	64 05	64 20	64.35	42
43	64.50	64 65	64 80	64.95	65.10	65 25	65 40	65.55	65.70	65.85	43
44	66 00	66 15	66 30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67 50	67 65	67 80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69 00	69 15	69 30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70 65	70 80	70 95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72 15	72.30	72.45	72.60	72.75	72.90	73 05	73.20	73 35	48
49	73 50	73 65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

Computed by L. Leland Locke.

89.79
10.21

12 + 67.81
3 19.39
9 + 48.42 = B.C.
37.77
10.65

11.96
25
14.46

4 + 00
1 + 04.12
295.88
14.10
2 + 81.78

113.10
50
163.10
236
349.10
50
449.10
236
685.10
50
713.10
236
971.10
50
1021.10
236
1257.10

9.46
2.44
7.02

971.10
25
4.610

2.44

0° 0' 40" Rt = from ℄ to W.

2 + 28.68 = P.O.T.
1 + 90.75
0 + 37.93 = Hub.
10.65
0 + 48.58

Line Prod. from Mi. U. Rd.
Hits N. of B.C.

2 + 28.68
10.65
2 + 39.33

48.42
2.62
9 + 45.80 = Lot line
89° 25' - check

9 + 48.47 = our chain B.C.

15 + 07.02 = W.L.
63rd

23° 01' 30" = 21 + 89.79

243.70 = To Mon. S.W.

38° 36' 15"

Fing. check.