1642

LIETZ

LEVEL BOOK

No. 772

TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

MICROFILMED
DEC 8 1984

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100 00	0 44	100.00	0.87	99.99	1.31	89
1	99.98	1 75	99 98	2 18	99 97	2.62	99 95	3.05	88
2	99.94	3.49	99 92	3.93	99 91	4 36	99.88	4.80	87
3	99.86	5.23	99 84	5 67	99 81	6.10	99.79	6.54	86
4	99 76	6.98	99 73	7.41	99.69	7.85	99.66	8.28	85
5	99 62	8.72	99.58	9.15	99 54	9.58	99.50	10 02	84
6	99.45	10.45	99.41	10 89	99.36	11.32	99.31	11.75	83
7	99 25	12.19	99 20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16 50	98 56	16.93	80
10	98 48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98 16	19.08	98 08	19 51	97.99	19 94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21 64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24 62	96.81	25 04	96 70	25.46	75
15	96.59	25 88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27 98	95.88	28 40	95 76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30 07	95.24	30.49	72
18	95.11	30 90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93,97	34.20	93.82	34.61	93.67	35.02	93.51	35 43	69
21	93,36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38 67	67
23	92.05	39.07	91.88	39 47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89 69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87 67	48.10	61
29	87.46	48.48	87.25	48 86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52 99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60 53	79.34	60.88	79.07	61 22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

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

MADE IN
U. S. A.

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.

1642
CITY ENGINEER'S OFFICE

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	12.35
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

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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	42.83	74.55	43 56
20	77.48	41.77	76.00	42.71	74.49	43.59
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

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- Index.

Level Notes & B.M.s — Mission Valley - Op Texas Street Grade to 27th & Monroe Pg 1-7 (7-22-92 Sawyer)

Level Notes - BM at Federal Bldg to 27th & Market St via Market St. (Bliss - 10-6-92) 20-27

Level Notes - BM - 5th & Chr to Georgia St 20-21 Bridge. via University Ave. (2-25-93)

Level Notes. BM at Court House to 5th & University, 55-59 (2-20-93 Bliss)

Level Notes - From BM on Santa Fe Culvert 266 to Old Town BM. (Bliss 2-11-93) 65-66

Level Notes - Federal Bldg BM to Civic Center via - Court House BM 67-68

Level Notes - Tie between 3rd & Federal & 3rd & Market - 79

Sommemeyer
Begg
For 7/17/42

Bench Levels

M.V. Road + Texas to 47th + Monroe

7/17/42

1

B.M. #1				43.02	= B.M. #37 M.V. Sewer Levels F.B. # 1629 page # 6
T.P. #1	11.05	54.07	0.41	53.66	= N side ctr. rail of 1st wier in ditch
" #2	12.06	65.72	0.93	64.79	= High spot in conc. (painted red) E. End 3rd wier
" #3	11.36	76.15	0.72	75.43	= End rock in wall 20'± Rt. ℄ Texas
					=
Set B.M. #2	9.38	84.81	0.34	84.47	= 3 Nails in P. pole # P. 79945
T.P. #4	12.09	96.56	0.07	96.49	= 2 Nails in fence post (Marked in red)
T.P. #5	11.98	108.47	0.17 ~~0.16~~	108.30 ~~108.31~~	Rock
T.P. #6	12.60	120.90	0.82	120.08	= Inside Edge fence post (Marked in red.)
Set B.M. #3	7.77	127.85	0.58	127.27	= Square (□) cut in S. End C.B. head wall 13'± W. ℄ Texas
T.P. #7	12.79	140.06	0.27	139.79	Rock
T.P. #8	12.66	152.45	0.66	151.79	"
" #9	12.42	164.21	1.16	163.05	" NE
" #10	11.28	174.33	0.94	173.39	= NE. Edge Catch Basin grate
Set B.M. #4	8.36	181.75	6.16	175.59	= ■ cut into S. end catch basin 13'± W. ℄ Texas
T.P. #11	11.19	186.78	0.46	186.32	Rock
T.P. #12	12.63	198.95	0.55	198.40	"
T.P. #13	12.19	210.59	0.40	210.19	"
Set B.M. #5	12.60	222.79	0.62	222.17	■ cut - 1'± S. of N. End of catch basin head wall 13'± W. ℄ Texas
T.P. #14	11.50	233.67	0.72	232.95	Rock
T.P. #15	12.36	245.31	0.68	244.63	"
T.P. #16	12.53	257.16	1.13	256.03	

Bench Levels
Texas St. Grade

TP #16				256.03	✓
Set. B.M. # 6	8.92	264.95	1.29	263.66	□ cut. 1' N. of S. end head wall 13'± W. ℄ Texas
T.P. # 17	11.83	275.49	0.29	275.20	Rock.
T.P. # 18	11.68	286.88	0.06	286.82	Rock
Check B.M. B.M. # 7	10.45	297.27	0.94	296.33	= B.P. base of pier Adams ave. bridge 18'± W. ℄ Texas grade
T.P. # 19	13.06	309.39	0.33	309.06	rock
TP # 20	12.25	321.31	0.66	320.65	rock
T.P. 21	12.76	333.41	2.00	331.41	"
T.P. # 22	9.41	340.82	3.21	337.61	Back of curb at driveway 1½'± S. of N. end - ~~East~~ top of grade Curb of Texas
T.P. # 23	10.29	347.90	3.36	344.54	curb
Check BM = BM # 8	5.14	349.68	3.76	345.92	= Lead plug (B.P. gone) S.E. Texas & Madison
T.P. 24	9.86	355.78	0.47	355.31	curb
T.P. # 25	12.85	368.16	2.09	366.07	inside edge walk S.W. prop. Madison & Arizona
BM # 9	7.58	373.65	2.45	371.20	Top. Hydt. S.E. Cor. Madison & Arizona.
TP # 26	3.20	374.40	2.01	372.39	
T.P. # 27	4.70	377.09	5.29	371.80	
B.M. # 10	3.70	375.50	3.75	371.75	= Top. S.E. Fire Hyd. Arizona & Adams
T.P. 28	6.78	378.53	4.35	374.18	= Base of 6" N. end N.W. Return Arizona & Adams
TP # 29	9.41	383.59	2.70	380.89	✓

Bench Levels

T.P. #29				380.89	✓	
BM # 11	6.45	387.34	3.41	383.93		S.W. B.P. Oregon & Adams
T.P.	601	389.94	499	384.95		
BM #12	597	390.92	6.03	384.89		= S.E.B.P. IDAHO & ADAMS
BM #13	6.60	391.49	4.59	386.90		= N.E.B.P. Utah & Adams
T.P.	4.66	391.56	4.47	387.09		= S. End. S.W. Return Kansas & Adams (Back of curb)
BM # 14	5.72	392.81	3.54	389.27		= S.E.B.R 30th & Adams
T.P.	5.20	394.47	4.29	390.18		
BM # 15	5.44	395.62	4.48	391.14		B.P. S.E Boundary & Adams.
T.P.	3.78	394.92	666	388.26		
B.M. # 16	5.15	393.41	4.23	389.18		B.P. in Lamp base N.E. west Mt. View Drive & Adams
T.P.	3.26	392.44	4.80	387.64		
BM # 17	3.80	391.44	5.04	386.40		□ cut in Lamp base NW 32nd & Adams
BM # 18	4.05	390.45	5.62	384.83		□ cut in Lamp base S.W. Bancroft & Adams
T.P.	6.03	390.86	3.32	387.54		
BM # 19	5.03	392.57	4.03	388.54	✓	= B.P. Curb N.W. Fulton & Adams

Bench Levels

BM #19				388.54	✓
BM #20	5.56	394.10	4.57	389.53	= S.W.B.P. 34th & Adams
BM #21	6.02	395.55	4.18	391.37	= □ cut in back side of walk S.W. Return Hawley Blvd & Adams
BM #22	5.74	397.11	4.34	392.77	= S.E.B.P. Mansfield & Adams
BM #23	4.40	397.17	3.62	393.55	= Top. S.E. Fire Hydt 35th & Adams
B.M #24	2.18	395.73	5.33	390.40	= □ cut on inside edge walk S.E. Cor. Wilson & Adams
BM. #25	3.34	393.74	5.52	388.22	= □ cut on inside edge walk. S.E. Cor. 36th & Adams
BM #26	3.79	392.01	5.81	386.20	□ cut on inside edge walk S.E. cor Cherokee & Adams
T.P.	1.45	387.65	6.88	380.77	
BM #27	1.74	382.51	5.38	377.13	= Top. S.E. Fire Hydt. East Mt. View Drive & Adams
BM. #28	1.46	378.59	7.64	370.95	= S.E.B.P. 39th & Adams
BM #29	2.07	373.02	7.79	365.23	= Fire Hydt. 20' west. w. end. of S. side bridge
T.P.	0.50	365.73	7.80	357.93	
BM. #30	2.29	360.22	7.25	352.97	✓ = □ cut in ctr. outer edge S.W. curb return Terrace Drive & Adams (By light std. # 5116)

Bench Levels 7/29/42

B.M. #30				352.97	✓
B.M. #31	8.84	361.81	0.49	361.32	□ Cut. in inside main walk at S. edge library ground entrance walk. S.E. Kensington Dr + Adams
T.P.	5.30	366.62	3.24	363.38	
B.M. #32	6.70	370.08	3.66	366.42	□ cut in outer edge return (By light std) S.W. Cor. Madison & Kensington Dr.
T.P.	7.02	373.44	4.05	369.39	
T.P.	5.89	375.28	4.63	370.65	
B.M #33	4.65	375.30	6.19	369.11	□ out. Back side - west end of S.W. curb return 41st & Monroe
B.M #34	6.01	375.12	6.16	368.96	□ cut. west end of S.W. Return Marlborough & Monroe
B.M #35	4.72	373.68	4.78	368.90	= Letter "N" top of Fire Hydt. S. side monroe 30± East of East line 42nd
T.P.	0.24	369.14	7.90	361.24	
T.P.	6.75	367.99	3.06	364.93	
B.M. #36	4.84	369.77	5.38	364.39	= N.W.B.P. Copeland & Meade
T.P.	4.49	368.88	5.56	363.32	
B.M #37	5.28	368.60	2.43	366.17	= Top Fire Hydt. NE. Cor. Copeland & El Cajon
T.P.	1.62	367.79	5.84 ~~5.82~~	361.95	
T.P.	5.21	367.16	5.44	361.72	
B.M. 38	5.08	366.80	2.76	364.04	✓ = Fire Hydt. S.E. Cor. 42nd & Orange

Bench Levels

B.M. # 38				364.04	
T.P.	2.41	366.45	5.21	361.24	
B.M. # 39	4.96	366.20	5.39	360.81	= N.W.B.P. 43rd & Orange
BM # 40	3.63	364.44	5.81	358.63	= □ cut, inside edge walk. N.W. Cor. Orange & Fairmount
T.P.	5.02	363.65	5.44	358.21	
B.M. # 41	5.79	364.00	2.76	361.24	= Top. Fire Hydt. N.E. Cor. Polk & Fairmount
T.P.	3.06	364.30	4.58	359.72	
BM # 42	5.00	364.72	5.81	358.91	= S.W. B.P. Fairmount & Univ
BM # 43	3.43	362.34	5.84	356.50	= □ cut in curb by lamp Std. S.W. Cor. 44th & Univ
B.M. # 44	3.40	359.90	7.85	352.05	= N.W. B.P. Highland & Univ.
B.M. # 45	3.56	355.61	6.16	349.45	= N.W.B.P. 45th & Univ
B.M. # 46	7.30	356.75	3.04	353.71	= □ inside edge walk N.W. Return Chamouna & Univ
B.M. # 47	3.72	357.43	6.29	351.14	= N.W.B.P. 46 & Univ
BM # 48	1.62	352.76	9.77	342.99	= N.W.B.P. Manla & Univ

Bench Levels

BM#48				342.99	✓	
BM#49	3.84	346.83	5.45	341.38		= N.W.B.P. 47th & Univ
BM#50	4.29	345.67	5.13	340.54		= N.W. B.P. Euclid & Univ
T.P.	3.48	344.02	6.50	337.52		
BM#51	10.27	347.79	0.03	347.76		= Top Fire Hydt. N.E. cor. Polk & Euclid
T.P.	3.98	351.74	3.72	348.02		
BM#52	7.00	355.02	4.02	351.00		= N.W. B.P. Orange & Euclid
T.P.	3.44	354.44	6.35	348.09		
T.P.	2.35	350.44	6.14	344.30		
BM#53	6.31	350.61	3.48	347.13		= S.E. Bolt. Base of N.W. Traffic Signal El Cajon & Euclid
T.P.	5.90	353.03	2.34	350.69		
T.P.	10.12	360.81	5.87	354.94		
BM#54	3.88	358.82	3.05	355.77		= S.E. B.P. Monroe & Euclid
T.P.	1.08	356.85	12.55	344.30		
B.M.#55	1.53	345.83	7.60	338.23	✓✓	= S.E. B.P. 47th & Monroe

✓✓ 4/12/43

Check Levels From Main St & 30th St.
Main St. - Division - Highland - 43rd - Logan
To Imperial & 47th St.

B.M	5.460	46.490		41.030	N.W. B.P. Main & 30th 1652-49
	4.540	48.835	2.195	44.295	
	1.920	46.310	4.445	44.390	
B.M	0.375	38.975	7.710	38.600	S.W. Mon Main & 32nd 38.59
	0.627	27.800	11.802	27.173	
	0.758	18.495	10.063	17.737	
B.M.	1.058	11.303	8.250	10.245	Brass Rivet S.W. Curb of Bridge & Main
	5.568	11.201	5.670	5.633	
B.M Found	4.825	11.106	4.920	6.281	Chisel □ S.Cb Main W.L. Rigel
	4.713	10.409	5.410	5.696	
B.M	5.405	10.614	5.20	5.209	N.W. 7 L & 7 Main St. Sive
	4.945	11.249	4.310	6.304	
B.M			4.095	7.154	S.E. B.P. Main & Thor 7.05

July 3-1943
Sisson
Bliss T
Begg Rod

		11.249			
	4.625	14.826	1.048	10.201	S.E. Top Fire Hy. Main & Thor
	6.084	17.825	3.085	11.741	
B.M			4.260	13.565	S.E. B.P. Main & Una 13.46
B.M	5.612	19.469	3.968	13.857	Fd S.E. Chisel □ ℄ of Return Main & Una
	5.345	20.144	4.670	14.799	
B.M			5.20	14.944	S.E. B.P. Main & Vesta 14.89
B.M	4.160	19.494	4.760	15.384	Fd. S.E. Chisel □ Cent. of Return Main & Vesta
	3.425	16.294	6.625	12.869	
B.M	5.023	14.457	6.860	9.434	Fd S.E. Chisel □ Cent. of Return Main & Woden
	4.580	13.932	5.105	9.352	
	4.605	13.372	5.165	8.767	
	4.910	13.302	4.980	8.392	
B.M	11.05	20.087	4.265	9.037	N.W. B.P. Main & Division 8.98.

July 7-43.

		20.087			
	10.030	28.557	1.560	18.527	
	8.038	33.385	3.210	25.347	
	9.288	42.438	0.235	33.150	
	5.177	45.080	2.535	39.903	
BM	7.445	48.001	4.524	40.556	N.W. B.P. Anthony Dr. & Division
	7.962	53.298	2.665	45.336	
	6.915	59.949	0.264	53.034	
BM	9.302	66.704	2.547	57.402	N.W. B.P. Division & So. 41st St. 57.34
	9.103	75.540	0.267	66.437	
	1.330	75.025	1.845	73.695	N.E. 7 L.T. Division & Marine View
	0.120	63.415	11.730	63.295	
	1.170	52.659	11.926	51.489	
BM	2.185	45.080	9.764	42.895	N.W. B.P. Division & So. 42nd St. 42.84

July 12-1943
Sisson
Bliss
Begg Rd

		45.080			
	0.246	38.616	6.710	38.370	
	5.985	35.166	9.435	29.181	
BM	1.660	35.216	1.610	33.556	N.W. B.P. Division & Highland 33.46
	11.150	42.796	3.570	31.646	
	11.420	54.069	0.147	42.649	
BM	1.410	53.839	1.640	52.429	B.P. Sly Epsilon 0.5 E. N. Edge Pav. Highland 52.36
	8.334	58.168	4.005	49.834	
BM	12.205	68.841	1.532	56.636	N.W. B.P. in Conc. Head Wall Culv. Delta & 43rd 56.60
	12.285	80.734	0.392	68.449	
	9.265	88.724	1.275	79.459	
	6.922	93.881	1.765	86.959	
	4.218	95.179	2.920	90.961	

		95.179			S.W. Chisel II Sor. Endcb. Return Alpha + 43rd
BM set	2.187	92.346	5.02	90.159	
	1.390	83.314	10.422	81.924	
	2.010	81.374	3.950	79.364	
BM	1.290	73.734	8.930	72.444	N.W. B.P. Keeler + 43rd St. 72.47
	1.723	66.062	9.395	64.339	
	8.900	66.162	8.800	57.262	
	10.621	75.318	1.465	64.697	
	7.515	82.608	0.225	75.093	
	6.835	86.128	3.315	79.293	
	6.375	88.808	3.695	82.433	
BM	7.785	92.709	3.884	84.924	L+D ℄ Logan + 45th 85.03
	12.115	103.994	0.830	91.879	
	7.540	111.454	0.080	103.914	

		111.454			
	9.570	119.169	1.855	109.599	
BM	6.960	125.729	0.40	118.769	N.W. B.P. Logan + 47th
	6.762	129.161	3.33	122.399	
BM	3.315	129.041	3.435	125.726	S.W. B.P. T St + 47th 125.81
	2.730	124.371	7.40	121.641	
BM	3.02	119.411	7.98	116.391	S.W. B.P. Ocean View Blvd + 47th St 116.49
	2.980	115.186	7.205	112.206	
	4.720	114.076	5.83	109.356	
	6.190	116.011	4.255	109.821	
	5.270	117.779	3.502	112.509	
BM			5.730	112.049	S.E. B.P. Imperial + 47th St 112.235 1652-53

Re Check Levels From Division & 43rd St. to Imperial & 47th St.

BM	2.135	35.691		33.556	NW BP Division & Highland-43rd Page 9
	9.380	40.251	4.820	30.871	
	12.330	50.321	2.260	37.991	
	8.44	54.931	3.830	46.491	
BM	1.545	53.986	2.490	52.441	BP Stylobate 0.5 E of W Edge Ped (Highland) 43rd
	8.460	57.391	5.055	48.931	
BM	11.83	68.494	0.727	56.664	NW BP in Conc H.W. of Curb Delta & 43rd
	11.76	79.854	0.40	68.094	
	11.45	91.114	0.19	79.664	
	6.81	95.324	2.60	88.514	
BM	0.61	90.834	5.10	90.224	SW Chiseled S of End Ch Rd Alpha & 43rd
	3.13	84.014	9.95	80.884	
	2.496	81.360	5.15	78.864	

July 17-43
Sisson
Bliss A
Begg Rod
Stopped Delta & 43rd

Jan. 5-1944
Same Party

		81.36			
BM	1.725	74.205	8.88	72.48	NW BP Keeler & 43rd
	0.94	66.765	8.88	65.825	
	6.905	64.695	8.975	57.790	
	11.195	74.93	0.96	63.735	
	7.945	82.755	0.12	74.81	
	6.985	86.11	2.63	79.125	
	5.85	89.70	2.26	83.85	
BM	8.215	93.17	4.745	84.955	Δ 70 Iscd Logan & 45th St.
	11.91	104.435	0.645	92.525	
	7.97	112.13	0.275	104.16	
	9.00	119.165	1.965	110.165	
BM	6.925	125.745	0.345	118.82	NW BP Logan & 47th

		125.745			
	6.71	129.285	3.17	122.575	
BM	2.97	128.735	3.52	125.765	SW BP T & 47th St.
	3.83	124.935	7.13	121.605	
BM	2.40	118.83	8.505	116.430	SW BP Ocean View Blvd & 49th St
	3.26	114.44	7.65	111.18	
	6.41	114.96	5.89	108.55	
	5.875	117.385	3.45	111.51	
BM			5.285	112.10	SE BP Imperial & 49th St.

Check Levels From Market & 18th St Along 18th - Imperial - Ocean View Blvd

Levels Cont From Federal Bldg State & F St # 1642

BM	5.04	55.935		50.895	N.E.B.P. Market & 18th St 1652-51
B.M.	7.555	59.420	4.07	51.865	S.W.B.P. Island & 18th 51.90
BM	3.64	59.555	3.505	55.915	N.E.B.P. J St & 18th 55.90
BM	4.235	58.180	5.61	53.945	N.E.B.P. K St & 18th 53.96
BM	2.49	53.545	7.125	51.055	N.E.B.P. L St & 18th 51.04
BM	11.135	55.085	9.595	43.950	S.E.B.P. Imperial & 18th
	6.18	59.885	1.380	53.705	
BM	5.61	62.615	2.88	57.005	N.E.B.P. Imperial & 19th 56.97
BM	4.09	61.065	5.64	56.975	N.E.B.P. Imperial & 20th 57.03
BM	5.79	60.865	5.99	55.075	N.E.B.P. Imperial & 21st 55.03
BM	6.29	62.645	4.51	56.355	N.W. Lead Plug Imperial & 22nd 56.44
	3.52	60.685	5.48	57.165	
BM	5.305	60.29	5.70	54.985	N.E.B.P. Imperial & 24th 54.98

	Jan 6-1944 Sisson Bliss T Begg Rod.	Cloudy Cool 60.29			
	6.20	63.74	2.75	57.40	
BM	2.80	61.76	4.78	58.96	N.E.B.P. Imperial & 25th 58.94
	5.41	59.875	7.295	54.465	
	10.91	70.335	0.45	59.425	
	12.185	82.335	0.185	70.150	
BM	6.87	88.835	0.37	81.965	N.W.B.P. Ocean View & Dewey 81.94
	10.13	96.405	2.56	86.275	
BM	3.95	98.925	1.43	94.975	N.E.B.P. Ocean View & Evans 94.98
	5.075	97.920	6.08	92.845	
BM	5.415	96.365	6.97	90.95	N.W.B.P. Ocean View & Sampson 90.95
	5.22	95.38	6.205	90.160	
BM	7.47	98.53	4.32	91.06	N.E.B.P. Ocean View & 28th St 91.05

		98.53			
	4.785	103.255	0.06	98.47	
BM	2.835	100.30	5.79	97.465	N.E. B.P. Ocean View + 29th St 97.45
	1.33	96.11	5.52	94.78	
BM	0.65	88.635	8.125	87.985	N.W. B.P. Ocean View + 30th St 87.933 F.B. 1652-48
	0.19	77.155	11.67	76.965	
	0.895	66.130	11.92	65.235	
	0.465	55.380	11.215	54.915	
BM	4.675	53.250	6.805	48.575	N.W. B.P. Ocean View + 31st St 48.61
	7.035	59.675	0.61	52.64	
	0.86	59.955	0.58	59.095	
	0.12	48.505	11.57	48.385	
	3.26	40.48	11.285	37.220	
BM	2.69	38.85	4.32	36.16	S.W. Top F Hyd Ocean View + Bancroft 36.23

		38.85			
	1.05	28.35	11.55	27.30	
	2.71	19.935	11.125	17.225	
BM	4.56	21.645	2.85	17.085	S.E. Top F Hyd Ocean View + 33rd 17.22
	5.125	23.890	2.88	18.765	
BM			3.33	20.560	S.E. Chisel Cb. 6' E of F Hyd Ocean View + 34

Bliss Notes
Sommermyer
Hardin Rod
Begg Truck Driver
Oct 6, 1942 Short

Bench Level Circuit. Base BM N.W. Corner Federal Building State + F.

Base BM	0:11	23.63		23.52
BM #2	4.27	20.25	7.65	15.98
BM #3	3.06	16.56	6.75	13.50
TP #1	5.89	14.88	7.57	8.99
BM #4	6.09	16.97	4.00	10.88
BM #5	4.79	17.19	4.57	12.40
BM #6	4.26	16.16	5.29	11.90
BM #7	5.90	16.33	5.73	10.43
BM #8	7.91	19.40	4.84	11.49
BM #9	6.98	22.45	3.93	15.47
BM #10	6.76	27.40	1.81	20.64
BM #11	5.43	30.32	2.51	24.89

N.W. Corner Federal Bldg. State + F. U.S. C + G. = 29.64 Brass plate on wall N.W. Cor Bldg

S.W.B.P. State + F.

S.W.B.P. State + G.

N.W. 7" TK Market + State

S.W.B.P. Market + Union

S.W.B.P. Market + Front

S.W.B.P. Market + 1st Ave

S.W.B.P. " " 2nd Ave

S.W.B.P. " " 3rd "

S.W.B.P. " " 4th "

S.E.B.P. " " 5th "

S.E.B.P. " " 6th "

		30.32			
BM #12	6.68	33.65	3.30	27.02	N.W. B.P. 7th Ave + Market
TP. #2	6.74	36.88	3.50	30.14	N.E. 7° TK. Market + 8th Ave. BM on N.W. is out
BM #13	7.51	41.02	3.37	33.51	N.W. B.P. Market + 9th Ave
TP #3	8.03	46.61	2.44	38.58	S.E. 7° TK. " " 10th " BM on N.W. Destroyed
TP #4	7.56	52.09	2.08	44.53	S.E. 7° TK. " " 11th Ave " " " " Destroyed
BM #14	5.69	54.15	3.63	48.46	N.W. B.P. Marked + 12th "
BM #15	5.34	53.79	5.70	48.45	S.W. B.P. " " 13th Ave
Dec 11/42 BM #16	0.55	47.46	6.88	46.91	N.W. B.P. " " 14th "
TP #5	1.52	36.38	12.60	34.86	
Set BM #17	7.08	37.58	5.88	30.50	N.E. 7° TK. 15th Ave + Market. B.P. N.W. Destroyed
Set BM #18	5.855	41.385	2.085	35.53	S.W. 7° TK. 16th " " " N.E. B.P. Destroyed
BM #19	8.125	45.53	3.98	37.405	N.W. B.P. 17th Ave + Market

		⊼ 45.53 ✓				
TP	9.165	53.885	0.81	44.72		
BM # 20	8.40	59.295	2.99	50.895		N.E.B.P. 18th St + Market
T.P.	9.73	68.23	0.795	58.50		
BM # 21	9.52	76.805	0.9~~5~~4 5	67.285		N.W.B.P. 19th St + Market
TP ~	12.77	88.025	1.55	75.255		
T.P.	5.27	92.155	1.14	86.885		
BM # 22	12.30	102.21	2.245	89.91 89.94 Record.	corrected to U.S.BM	Marked 96.1 in White Paint U.S.BM High Spot ct + NE Return. 20th + Market S.W.B.P. Destroyed
BM # 23	9.22	111.08	0.38	101.86		N.W.B.P. 21st + Market
TP	6.37	116.815	0.635	110.445		
BM # 24	5.96	120.89	1.885	114.930		N.W.B.P. 22nd St + Market
TP	8.975	128.895	0.97	119.92		
B.M. # 25	11.20	139.13 ✓	0.965	127.93		N.W.B.P. 24th + Market

		T 139.13 ✓			
T.P.	12.60	151.195	6.535	138.595	
T.P.	7.945	158.455	0.685	150.510	
BM #26	0.85	157.75	1.555	156.90	NW BP 25th + Market
T.P.	0.13	147.45	10.43	147.32	
T.P.	13.07	158.90	1.62	145.83	
Set BM #27	7.90	161.46	5.34	153.56	Chiseled Square Approx ctr SW Return 26th + Market BP on SW Destroyed
T.P.	0.30	148.68	13.08	148.38	
T.P.	4.02	140.16	12.54	136.14	
Set BM #28	11.84	142.53	9.47	130.69	Chiseled Square Approx ctr NW Return 27th + Market. Mon on N.E. Seems to have been Destroyed
T.P.	3.37	145.73	0.17	142.36	
T.P.	0.10	133.11	12.72	133.01	
Set BM #29	12.14	140.52 ✓	4.73	128.38	Chiseled Square Approx. ctr of Bridge on North ch. 28th + Market

		⊼ 140.52	✓			
T.P.	2.53	134.27	8.78	131.74		
Set B.M #30	11.15	137.24	8.18	126.09		N.W. 7° TK. 29th + Market
T.P.	11.20	148.11	0.33	136.91		N.E. 7° TK Dodson + Market
BM #31	0.60	145.625	3.13	(144.950) 144.98 BM Line Corrected To This B.M.	True Elev City Datum 145.025	Elev Geol. Datum 151.195. U.S Geological Survey BM Standard Disk N.E. Cor 30th + Market
T.P.	0.61	133.61	12.625	133.00		
T.P.	0.19	122.42	11.38	122.23		
T.P.	0.86	111.91	11.37	111.05		
Set BM #32	0.19	104.07	8.03	103.88		N.W 7° TK 31st + Market B.P. S.W. Destroyed
T.P.	0.88	93.54	11.41	92.66		
BM #33	1.27	82.74	12.07	81.47	Record 83.23	S.W. B.P. 32nd + Market
T.P.	0.095	71.950	10.885	71.855		
T.P.	0.38	56.60	12.73	59.22		
			↓			

		59.60				
T.P.	0.09	48.29	11.40	48.20		
Set BM #34	9.22	49.29	8.22	40.07		S.E. B.P. 33rd + Market — BP on Top of Wall has been Destroyed
Set BM #35	11.50	59.41	1.38	47.91		Chiseled Square in cb. East End + South Side of Bridge Near 34th + Market
TP	12.335	71.535	0.21	59.20		
T.P.	9.77	81.225	0.08	71.455		
TP	8.785	88.53	1.48	79.745		
BM #36	12.34	98.19	2.68	85.85	Record 85.65	N.E. B.P. 35th + Market
T.P.	13.05	110.91	0.33	97.86		
TP	13.055	123.90	0.065	110.845		
BM #37	2.78	125.32	1.36	122.54	Record 122.26	NW B.P. 36th + Market
T.P.	2.45	120.66	7.11	118.21		
T.P.	9.125	127.375	2.41	118.25		

		π 127.375				
T.P.	12.245	139.47	0.15	127.225 127.525		
T.P.	7.02	146.06	0.43	139.04		
Set BM #38	5.63	148.76	2.93	143.13		Chiseled square in Granite Cb. S. Side Market East End opening I.O.O.F. cemetery Marked with yellow paint
Reset BM #39	0.29	140.45	8.60	140.16	Record 139.92	B.P. 1° East old city Bdry Line on S. Cb of Market ← old BM was Gone Replaced plug in original Hole.
T.P.	0.39	128.08	12.76	127.69		
T.P.	9.305	129.295	8.09	119.99		
BM #40	8.895	137.37	0.82	128.475	128.24 Record	N.E. B.P. 40th & Market
T.P.	0.22	132.32	5.27	132.10		
BM #41	0.14	125.78	6.68	125.64	125.39 Record	N.W.B.P. 41st & Market
T.P.	9.76	130.46	5.08	120.70		
BM #42	8.51	137.56	1.41	129.05	128.76 Record	S.W.B.P. 42nd & Market
BM #43	0.375	131.400	6.535	131.025	130.79 Record	N.E.B.P. Toyne & Market

		⊼ 131.40 ✓				
BM # 44	9.725	137.555	3.57	127.83	127.54 Record	S.E.B.P. 43rd + Market
T.P.	7.305	143.370	1.49	136.065		
BM # 45	9.46	150.78	2.05	141.32	141.05 Record	N.E.B.P. 44th + Market
T.P.	10.16	159.98	0.96	149.82		
BM # 46	6.06	165.22	0.82	159.16	158.85 Record	N.W.B.P. 45th + Market
T.P.	0.645	161.145	4.72	160.50		
T.P.	0.08	148.665	12.56	148.585		Nail in P. Pole P 1778.39 S. Side Market
T.P.	1.48	143.165	6.98	141.685		
Set BM			11.065	132.10	✓✓	B.P. in S. Cb. Market approx 100' West 47th St in cut section.

Feb-25-43 Bench Levels 5th + Univ. East

BM	2.67	292.65		289.98	N.W. BP 5th + Univ
BM	3.935	287.985	8.60	284.05	N.W. BP. 6th + Univ
TP.	6.130	289.655	4.460	283.525	
TP	4.510	288.690	5.475	284.180	
TP	7.345	289.530	6.505	282.185	
TP	6.510	293.960	2.08	287.450	
BM	7.160	296.985	4.135	289.825	S.W. BP Vermont + Univ
TP	6.705	300.510	3.180	293.805	
TP	6.740	304.255	2.995	297.515	
TP	7.950	308.370	3.835	300.420	
TP	5.670	308.470	5.570	302.800	
BM	8.210	312.22	4.460	304.01	N.W. BP Univ + Center
TP.	9.105	319.030	2.295	309.925	

		219.030	✓		
	3.615	320.075	2.570	316.460	
	3.425	314.360	9.140	310.935	
BM			3.870	310.490	✓✓

U.S.C.&G. $\frac{H.61}{1927}$ Standard Disk: Set in Retaining Wall of Bridge Carrying Georgia over Univ

4/17/43

Sisson Chief
Bliss-Notes & Bench Levels Co. Court House
Begg-Rod Front & A to 5th & Univ
Cloudy & Cool
2 Mile S.E. Wind
2/20/93

	1.065	37.216		36.151	
TP	6.03	37.103	6.143	31.073	
TP	5.70	40.108	2.695	34.408	
BM	5.90	41.396	4.612	35.496	Front & B
TP	6.864	43.780	4.48	36.916	
TP	7.632	48.18	3.232	40.548	
TP	10.852	58.472	0.56	47.62	
BM	6.47	61.93	3.012	55.460	N.W.B.P. 2nd & A
TP	5.922	65.078	2.774	59.156	
BM	9.80	70.218	4.66	60.418	N.W.B.P. 4th & A
TP	8.132	78.220	0.130	70.088	
BM	11.797	86.752	3.265	74.955	S.W.B.P. 4th & Ash

		86.75 ✓			
T.P.	9.200	95.628	0.324	86.428	
BM	11.165	103.158	3.635	91.993	S.W. BP. 4th r Beech
T.P.	10.910	113.561	0.507	102.651	
T.P.	9.168	122.074	0.655	112.906	
T.P	8.635	130.529	0.180	121.894	
T.P	9.445	139.894	0.080	130.449	
BM	12.655	150.494	2.055	137.839	
T.P	10.378	160.570	0.302	150.192	
T.P.	7.155	166.375	1.350	159.220	
BM	11.075	176.040	1.410	164.965	N.W. BP Fir + 4th
T.P	9.480	184.240	1.280	174.760	
BM	9.835	192.640	1.435	182.805	N.W. BP. Grape + 4th
	7.490	197.797 ✓	2.333	190.307	

		197.797 ✓				
BM.	11.805	207.700	2.502	195.295		N.W.B.P. 4th + Hawthorne
BM	11.550	216.922	1.728	205.372		N.W.B.P. 4th + Ivy
BM	9.200	224.067	2.055	214.867		N.W.B.P. 5th + Ivy
TP.	8.450	231.489	1.028	223.039		
BM	11.855	241.684	1.660	229.829		N.W.B.P. 5th + Juniper
BM	10.002	249.701	1.985	239.699		S.W.B.P. 5th + Kalmia
TP.	7.142	254.058	2.785	246.916		
B.M.			4.280	249.778	✓✓	N.W.B.P. 5th + Laurel

3/14/43

Sisson Chief
Bliss Notes + A
~~Begg~~ Rod
Feb 23-43

Bench Levels from USC+G BM in Bridge approach Laurel + Balboa Park to

1	BM 5th + Univ				
	5.005	255.342		250.337	
BM	6.650	258.559	3.433	251.909	N.W.B.P. 6th + Laurel
BM	6.770	262.204	3.125	255.434	S.W.B.P. 6th + Maple
TP	6.710	267.499	1.415	260.789	
BM	9.210	276.161	0.548	266.951	S.W.B.P. 6th + Olive
BM	7.280	282.551	0.890	275.271	N.W.B.P. 6th + Palm
TP	6.415	287.296	1.670	280.881	
TP	5.815	289.846	3.265	284.031	
TP	5.930	291.846	3.930	285.916	
TP	481	292.316	4.340	287.506	
BM	6.270	293.656	4.930	287.386	S.W.B.P. 6th + Thorn
BM	5.050	294.051	4.655	289.001	S.W.B.P. 6th + Upas

		294.051				
T.P.	1.360	286.786	8.625	285.426		
T.P.	2.350	279.331	9.805	276.981		
T.P.	11.360	286.931	3.760	275.571		
T.P.	7.370	292.501	1.800	285.131		
TP	4.800	291.832	5.469	287.032		
BM	3.900	290.157	5.575	286.257		N.W.B.P. 6th & Evans Place
T.P.	6.090	291.624	4.623	285.534		
T.P.	5.810	293.989	3.445	288.179		
TP	5.410	294.909	4.490	289.499		
BM			4.985	289.924	289.98	N.W.B.P. 5th & Univ. Reference to G. 61. 1927 Standard DISK NE Cor in B Bldg Coast & Geod.

Feb 11/43
Bliss - Notes + T
Begg - Rod

Bench Levels from M.P 266 SFRR
To old Town U.S.G.S. Datum
see F Books

BM	10.675	31.213 ✓		20.538	BM. Standard Disk. U.S.G.S. in Culvert Headwall approx 50' N of M.P 266 W. Side Track.
TP.	6.70	35.143	2.77	28.443	
TP	8.07	38.528	4.685	30.458	
T.P.	10.10	44.578	4.05	34.478	
T.P.	12.875	56.231	1.222	43.356	
T.P.	7.885	59.446	4.67	51.561	
TP.	9.73	66.506	2.67	56.776	
BM	9.715	75.795	0.426	66.080	B.P. N.W. Clayton + California
BM	7.65	80.87	2.575	73.22	B.P. N.E California + La Jolla Blvd.
BM	4.68	84.84	0.71	80.16	B.P. N.E Noell + La Jolla Blvd
BM	4.805	88.90	0.745	84.095	B.P. N.E Estudillo + La Jolla Blvd
BM	4.90	93.07	0.73	88.17	B.P. N.E Wright + La Jolla "
BM	1.61	93.78 ✓	0.90	92.17	B.P. N.E Bandini + " "

		93.78 ✓			
BM	0.565	86.645	7.70	86.08	N.E. Coots + La Jolla Blvd
TP	2.93	79.56	10.015	76.630	
BM	1.44	77.325	3.675	75.885	N.E.B.P. Witherby + La Jolla Blvd
T.P.	0.935	70.795	7.465	69.860	
TP	0.185	59.130	11.85	58.945	
BM	1.52	51.305	9.345	49.785	S.E.B.P. Ampudia + La Jolla Blvd.
BM	3.77	45.16	9.915	41.390	S.E.B.P. Arista + " " "
BM	5.49	43.50	7.15	38.01	S.W.B.P. Conde + San Diego Blvd.
B.M.	3.89	40.63	6.76	36.74	S.W. 7" Tack Harney + San Diego Blvd
BM	3.40	38.26	5.77	34.86	S.W. 7" Tack Twiggs + " " "
BM	2.235	30.670	9.825	28.435	S.W. 7" Tack Mason + " " "
BM			5.295	25.375 ✓	U.S.G.S. Datum Serial Number 19 W. Cb Line of Mason Granite Mon. 200' S.W. of S. Diego Blvd

Sisson Chief
Bliss Notes & K
Bega Rod
2/16/43
Clear & Fair
No Wind

B.M Levels Federal Bldg. State & F via County Court House to Civic Center

BM	0.133 ~~0.288~~	236.49 ~~23.324~~		23.576 ~~23.636~~	Standard Disk U.S.C & Geodedic Survey N.W. Cor. Federal Bldg #3 Set 1917
BM	135 ~~8.079~~	24.096	688 ~~7.848~~	15.961	S.W.B.P. State & F.
TP	7.335	27.461	3.97	20.126	
BM	6.10	30.066	3.495	23.966	S.W.B.P. Union & E
TP	6.635	33.161	3.54	26.526	
TP	7.50	37.291	3.37	29.791	
BM			1.14	45.761 36.351	4513 Record U.S.G.S Standard Disk County Court House on E Side Court House Annex Midway between C & D on Front St
	4.215	30.741		26.526	
	1.725	25.202	7.264	23.477	
BM	6.315	22.407	9.11	16.092	S.W.B.P. Broadway, Columbia
BM	1.525	19.268	4.664	17.743	East Step A & Navy Y.M.C.A Standard Disk #57-1926 C & G Survey

		✓ 19.268				
TP	3.77	16.258	6.78	12.488		
BM	6.30	15.69	6.868	9.390		SW B.P. Broadway + India
T.P	5.434	13.904	7.22	8.47		
	0.605	13.904	0.605	13.299		Standard Disk. U.S.C.&G. M.57 1926 - 200' +- Not Broadway W. Side Santa Fe RR. Depot.
T.P.	2.73	9.099	7.535	6.369		
BM.			4.435	4.664		N.W. B.P. Broadway + Pacific
T.P.	4.375	8.849	4.625	4.474		
T.P.	4.58	8.954	4.475	4.374		
TP	6.245	9.364	5.835	3.119		
TP.	5.42	10.72	4.064	5.300		
TP.	6.325	12.400	4.645	6.075		
BM			0.275 ~~0.0275~~	12.125	✓	Standard Disk U.S.G.S. S.E. Wing Civic Center H.2 18.28 above Sea Level
BM			0.25	12.15	✓	" " " " " " S.W. " " " H.5 Δ 18.299 Above Means Level

Bench Levels -

	10.785	44.295		33.51
			~~1.823~~	
BM	9.215	51.687	1.823	42.472
TP	7.925	58.357	1.255	50.432
	3.972	60.504	1.825	56.532
BM			3.302	57.202 ✓

Dec 23-42
Bliss & Notes.
Sommer & Myers
Begg. Rod.
Clear & cold.

Bench Level Line from 35th & Highway 94
To BM. at East End of Bridge of 39th & Market

BM	0.92	53.08		52.16	58.28 U.S.G.S. Datum
T.P.	2.31	47.74	7.65	45.43	
T.P.	4.34	51.31	0.77	46.97	
check BM #35			3.48	47.83	Record 47.91 = 0.08 error
T.P			2.7		

Chiseled Square in N.E. Return 35th & Highway 94. Painted with White Paint

BM #35 in Market St Level Circuit. Note See Page for check Level Circuit 30th & Market to 36th & Market.

ENGINEERING DEPARTMENT,
CITY OF SAN DIEGO,
CALIFORNIA.