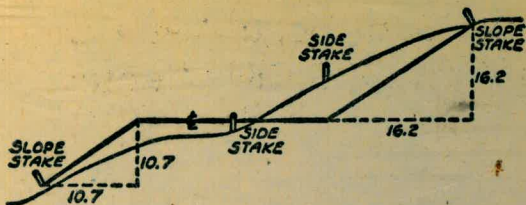


W 839

BRISTOL BOOK

Please Return to
 City of San Diego Water Dept.
 Room 903 Civic Center



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
 SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

MICROFILMED

JAN 10 1965

288.31
 .16
288.47
 .37
288.10

DIRECTIONS FOR USE OF TABLE
TABLE No. XIV

Distance of slope stake from side or shoulder
of road for any width roadway, slope 1% to 10%
If ground is nearly level, the cut or fill at the
stake is found by the above table. If ground is not
nearly level, the distance between
the side stake and slope stake is found by
this table. The distance between the side stake
and the slope stake is found by this table.
If the distance between the side stake and the
slope stake is not found in the table, the
distance may be found by the following method:
Find the distance between the side stake and the
slope stake for the slope and the distance between
the side stake and the slope stake for the
slope. Subtract the latter from the former and
divide the result by the difference between the
two slopes. Add the result to the distance
between the side stake and the slope stake for
the larger slope. If it does not make the right
adjustment necessary.

IMPROVED TABLES
AND
INFORMATION

TABLE No. XVII
To find Tangent and External for curve of
any other degree, divide by degree of curve and
add correction found in column of correction.
Degree of curve with a given T may be found
by dividing tangent (or external), opposite T by
given tangent (or external).
The distance from a point on the tangent to
the curve is very nearly the square of the tangent
length divided by twice the radius.

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.03	.06	.09	.13	.16	.19	.22	.25	.28	.31	.34	.38	.42	.46
15°	.04	.10	.14	.19	.24	.29	.34	.39	.45	.51	.53	.58	.63	.68
20°	.06	.13	.19	.26	.32	.39	.45	.51	.58	.65	.72	.79	.84	.90
25°	.08	.16	.24	.33	.40	.49	.58	.67	.75	.83	.90	.99	1.06	1.14
30°	.10	.19	.29	.39	.49	.59	.69	.79	.89	.99	1.09	1.20	1.29	1.39
35°	.11	.22	.34	.47	.58	.69	.79	.81	.92	1.04	1.29	1.42	1.54	1.66
40°	.13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	.15	.30	.44	.60	.76	.91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	.17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	.19	.38	.57	.76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	.21	.42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	.23	.46	.69	.93	1.16	1.40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	.25	.51	.76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	.30	.61	.91	1.22	1.53	1.84	2.15	2.46	2.78	3.10	3.44	3.78	4.12	4.46
85°	.33	.66	1.00	1.33	1.68	2.02	2.36	2.70	3.05	3.40	3.77	4.14	4.55	4.89
90°	.36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32
95°	.39	.79	1.19	1.55	2.00	2.40	2.80	3.20	3.61	4.02	4.40	4.98	5.38	5.83
100°	.43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	.51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4.76	5.31	5.86	6.43	7.01	7.60
120°	.62	1.25	1.93	2.52	3.16	3.81	4.45	5.11	5.77	6.44	7.12	7.80	8.50	9.22

FOR EXTERNALS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.029	.032	.035	.039	.043	.047	.051
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	.036	.046	.056	.065	.074	.083	.093	.106	.120	.127	.135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.771	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.286	.383	.480	.578	.678	.777	.877	.977	1.07	1.18	1.29	1.39
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.885	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

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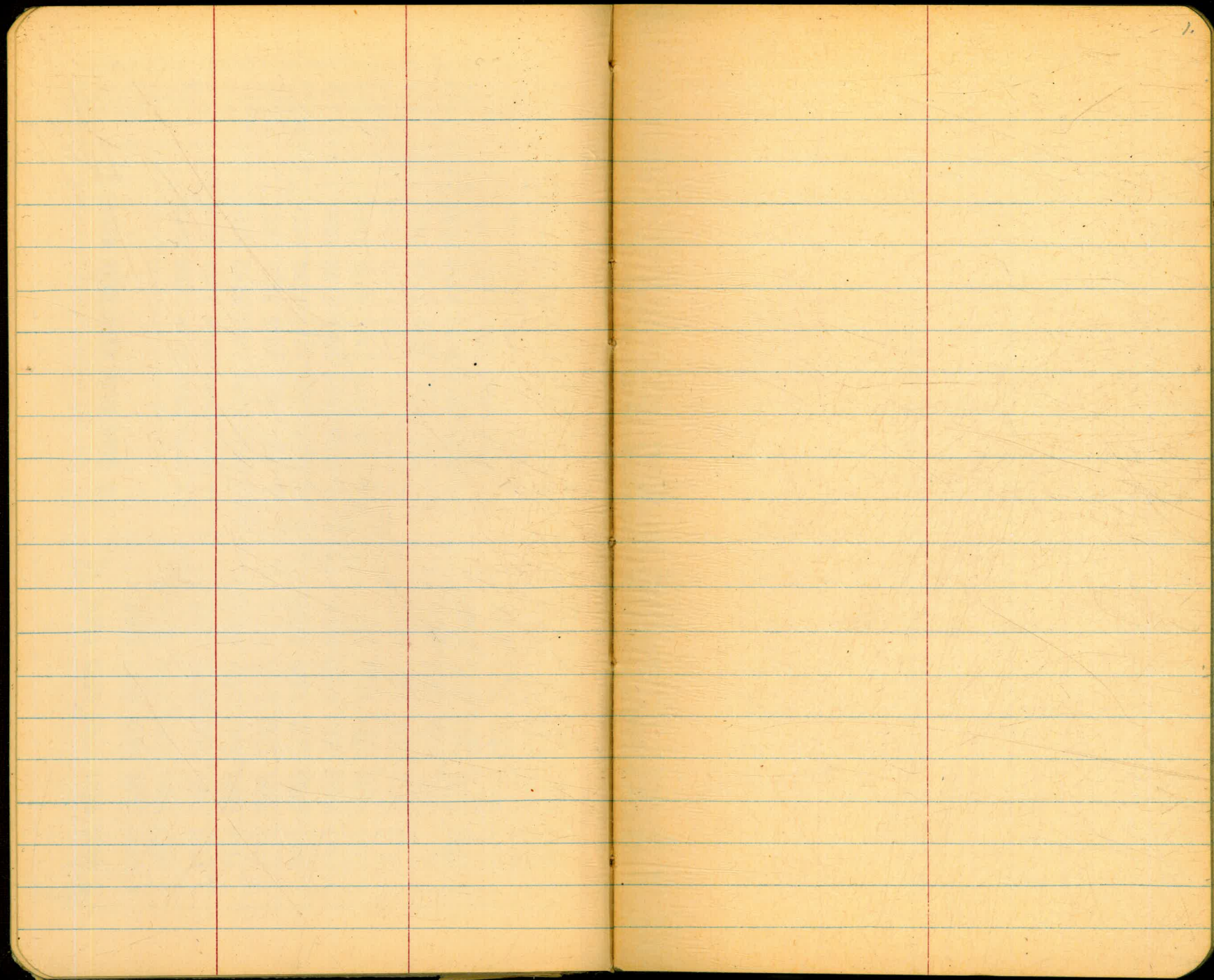
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alice



FELSPAR STREET
 NOYES ST. TO PENDLETON ST.
 CONSTRUCTION GRADES & STAKES
 FOR 6" A.C. MAIN.

Nov. 16, 1954

BRATTY
 SHORRY
 MARTELL
 ALEXANDER

2

BM.	7.90	69.96		62.02	N.W. C.P. Garnet & Noyes		
0+00	= N.W. Prop. line Noyes						
0+55	6" G.V. CITY	4.89	63.1	61.9	C32 - (NOT MARKED)	65.3 4.7 C	
0+90							
2+55	F.H. TER	5.56	64.40	60.6	C38	64.9 4.3 C	
⑤ F.H.		5.54	64.42	64.30	C012 C38		
1+00		5.83	64.13	60.9	C32	64.4 3.6 C	
1+50		6.85	63.11	59.8	C33	63.2 3.4 C	
2+00		8.07	61.89	58.7	Rev Grd 58.2 C37	61.8 3.2 C	
2+50		9.19	60.77	57.6	57.3 C35	61.0 3.0 C	
3+00		9.77	60.19	57.4	57.0 C32	60.7 2.9 C	
3+50		8.87	61.09	57.2	57.0 C41	60.8 3.2 C	
4+00		9.79	60.17	55.6	C46	60.3 4.7 C	
④ 4+50	0.27	59.90	10.33	59.63	54.2	C54	59.9 10.1 C
5+00		3.34	56.56	52.1	C45	58.3 3.2 C	
5+50		6.88	53.02	50.0	C30 Rev. Grd.	59.9 6.0 C	
6+00		9.42	50.48	48.0	47.4 C31	59.7 9.2 C	
6+25		9.76	50.14	47.0	46.0 C41		
6+50		7.73	52.17	47.0	46.0 C62	9.5 C	
6+65						7.5 C	
6+70	6" G.V.	6.90	53.0	47.0	46.0 C70	6.7 C	
6+70							
6+75	F.H. TER	6.63	53.27	47.0	46.0 C73	6.5 C	
⑤ F.H.		8.04	51.86	50.14	C122 to Flange C59 to ELL		

FELDSPAR ST.
(Cont'd)

11/7/54

3.

59.90

Rev. grid.

7+00		5.76	54.14	47.0	46.0	C81	55
7+50		5.88	54.02	47.0	46.0	C82	58
8+00		7.76	52.14	47.0	46.0	C61	77
8+50		11.27	48.63	47.0	45.5	C31	112
9+00		11.10	48.80	47.5	45.5	C33	109
9+50		9.86	50.04	47.7	46.0	C40	98
10+00		9.45	50.45	48.0	46.8	C37	94
FD 10+36.5	6.88	57.59	9.19	50.71			
10+50		6.46	51.13	48.2	47.5	C36	63
11+00		5.07	52.52	48.4		C41	49
11+50		5.32	52.27	48.4	48.8	C35	54
11+60	END WORK Bottom 6" CI.	6.08	51.51	48.4	48.9	C26	51.65 59.2 on part (Cont.)
12+40	BEGIN WORK	5.09	52.10	48.4	C37		5.32 on part (Cont.)
12+45	F.H. TEE	5.28	52.31	48.6	C37		5.13 on ac part
⑤ FH		5.33	52.26	50.6	C40	F034	
	Top curb	5.08	52.51				
TP	0.00	45.52	12.07	45.52			
CK BM	9.98	46.64	8.86	36.66 = 36.92		BP NW Cor Gannet & Pendleton	
CK BM	8.50	53.54	1.60	45.04 = 45.30		BP NW Cor " & Olney	
D	10.21	63.45	0.30	53.24			
CK BM			1.45	= 62.00 = 62.02		BP NW Cor. Gannet & Noyes	

FELDSPAR ST
(Cont'd.)

11/17/54

4

WATER METERS

Reading	Rate	Previous Reading	Current Reading	Usage	Notes	Address
P 1400 Ⓟ	0.80	62.93	64.13			
1+16 S		12	62.7	637	C00	4529-31 Noyes
1+47 S		1.9	63.0	632	F02	2111 Feldspar
1+47 N		1.0	63.9	640	F0L	2112 "
2+00 S		3.0	61.9	621	F03	2120 "
2+15 N		2.8	62.1	629	F08	2119 "
2+66 N		3.1	61.8	621	F03	2126-28 "
2+66 S		4.6	60.3	612	F09	2127-29 "
3+02 S		4.5	60.4	608	F04	2133 "
3+11 N		2.1	62.8	617	C11	2136 "
3+22 S		4.8	60.1	605	F04	2143 "
3+32 N			62.7	615	C12	
3+47 N	moved by Kayes	2.8	63.1	612	C12	2147-48 "
4+00 S		6.2	58.7	590	F03	2152 "
4+12 N		0.5	64.4	597	C17	2155 "
4+55 N		7.8	63.1	580	C56	
5+17 N	moved by Kayes		60.3	552	C51	2158-64 "
4+71 S		7.3	57.6	563	C13	2165 "
5+81 S			50.9	51.65	F08	4540
5+82 S	moved by Kayes	11.4	53.5	533	C03	4540-42 } OLNEY
5+82 S	added by Kayes		50.7	51.65	F10	4530
5+50 N		6.6	58.3	53.8	C15	2176 Feldspar
5+82 N	added by Kayes		58.2	52.75	C54	4516-18 Olney
CR PD 4450		5.27	59.66	59.63		

FELDSPAR ST
(Cont.d)

11/17/54

5

6+83 N	4.5990	2.1	57.8	512	C66	4605	Olaey	
7+33 S		6.1	53.8	503	C35	2211	Feldspar	
7+50 N		3.2	56.7	512	C53	2216	"	
8+05 S		8.0	51.9	505	C14	2219	"	
8+20 S		9.2	50.7	506	C01	2227	"	
8+28 N		8.6	51.3	517	F04	2229-30	"	
8+80 S		11.0	48.9	508	F25	2235	"	
8+92 N		9.7	50.2	519	F13	2236	"	
9+27 N		8.5	51.4	520	F06	2244	"	
9+27 S		11.0	48.9	510	F21	2245	"	
9+74 N		7.8	52.1	522	F01	2252	"	
9+74 S		9.9	50.0	511	F12	2251	"	
10+29 N		6.7	53.2	524	C08	2258	"	
10+36 S	6.88	57.59	9.19	50.71	513	F06	2259	"
10+78 S		6.2	51.4	515	F01	2267	"	
11+05 N		2.9	54.7	527	C20	2268	"	
11+22 S		4.8	52.8	518	C10	4540		
11+44 N		1.1	56.5	529	C36	4616		
11+60 N		3.0	54.6	530	C16	4616-18		

ALLEY BLK 60
SOUTH OF MADISON, EAST OF OHIO
CONSTRUCTION GRD.S & STAKES FOR
6" A.C. WATER MAIN.

Nov. 18, 1954

BEATTY
SHOREY
MARTELL
ALEXANDER

B.M. 7.63 393.03 386.00

SE. COR. MADISON & 30TH

CITY ENGRS.
(E.B. 586 pp. 8.)

gone

0+50	6" Tapping G.V. (CITY)		385.5		
0+55	3.67	393.03	4.27	389.36	385.5
1+00			3.6	389.4	385.5
1+50			3.9	389.1	385.0
2+00			4.7	388.3	384.6
2+50			4.9	388.1	384.3
3+00			5.0	388.0	384.0
3+50			5.4	387.6	383.7
4+00			5.5	387.5	383.5
4+50			5.5	387.5	383.5
4+57 ⁶⁰	6" TEE		5.4	387.6	383.5
5+00			5.6	387.4	383.5
5+50			5.5	387.5	383.5
5+54	2" B.O.		5.5	387.5	383.5
	& Conc. part	5+54	5.77	387.23	
	& Walton Place part	5+90		387.13	

C39 (not marked!)

C41

C41

C37

C38

C40

C39

383.5 C40

383.5 C40

383.5 C41

383.5 C39

383.5 C40

383.5 C40

389.43 Elev. part & pipe

4.20 389.43

389.34 3.6

389.34 389.34

389.17 3.6

388.80 4.23

388.34 4.71

387.98 5.05

387.72 5.31

387.43 5.60

387.43 5.60

387.28 5.75

387.00 6.03

387.40 5.63

387.30 5.90

ALLEY BLK 60
(Cont'd)

11/18/52

7.

Water Meters
393.03

0+81 E	3.6	389.4	389.3	CO1
1+60 E	4.0	389.0	388.8	CO2
1+90 E	4.5	388.5	388.7	FO2
2+21 E	4.7	388.3	388.2	CO1
2+93 E	4.9	388.1	387.8	CO3
3+25 E	5.3	387.7	387.6	CO1
4+00 E	5.3	387.7	387.3	CO4
4+22 E	5.5	387.5	387.2	CO3
4+96 W.	6.0	387.0	386.9	CO1
5+18 E	5.8	387.2	387.2	CO2
5+40 E	5.7	387.3	387.3	CO2

MAPLE ST, FAIRMOUNT to 44TH ST
 44TH ST, MAPLE to LAUREL ST
 Construction Stakes & Grades for
 WATER METERS.

Nov. 19, 1954

BEATTY
 SURELY
 MARTELL
 ALEXANDER

8.

W.O. 4624

BM 11.80 291.97 280.17

BP. NW. COR FAIRMOUNT & MAPLE

0+00 = Ely prop. line FAIRMOUNT

0+67.5 6.6 285.4 282.8 C26 4365 MAPLE

0+91.5 6.7 285.3 283.7 C16 4367 "

1+61.5 5.5 286.5 285.9 C06 4375 "

1+79 N 3.9 288.1 286.7 C14 4378 "

2+51.5 4.5 287.5 285.3 C22 4395 MAPLE

4P 5.61 287.09 10.49 281.48

0+00 = Sly prop. line MAPLE

1+04 W 6.0 281.1 279.1 C20 2578 44TH

1+82 W 6.1 281.0 279.0 C21 2566 "

2+13 W 5.2 281.9 278.8 C91 2562 "

2+84 W 4.1 283.0 278.3 C47 2554 "

3+21 W 4.0 283.1 278.1 C50 2550 2546 2548, 44TH

3+53 E 7.2 279.9 277.5 C26 2539 44TH

3+77 W 4.6 282.5 277.9 C46 2530 "

4+29 E 7.3 279.8 277.0 C28 2527 "

4+83 E 10.6 276.5 275.5 C12 2521 "

P 7.75 290.69 4.15 282.94

CK BM 10.52 280.17 = 280.17

NOGAL ST.
47TH To 49TH.
Construction Grades & Stakes
FOR 6" A.C. MAIN.

Nov. 22, 1954

BEATTY
SHREVE
MARTELL
ALEXANDER

7.

BM.							
	6.65	82.02		75.37			L & T @ Nogal 7' off Ely. prop line 47 TH ST.
0+40 ³⁶	6" Tapping G.V. City	6.68	75.34				6.58
0+50		6.58	75.44	70.6	C43		6.55
0+66	F.H. TEE	6.6	75.4	70.7	C47		6.5
	⑤ F.H.	7.0	75.0	75.7	F07, C43		
1+00		7.1	74.9	70.9	C40		7.0
1+25		7.1	74.9	71.0	C39		7.0
1+75		7.1	74.9	71.4	C35		7.1
2+25		6.6	75.4	71.8	C36		6.6
2+75		5.8	76.2	72.9	C33		5.5
3+00	6" x 6" CROSS.	5.2	76.8	73.5	C33	4.9	
3+25		4.0	78.0	74.0	C40		4.5
3+75		2.0	80.0	75.5	C45		2.5
4+25	13.14	94.97	0.19	81.83	77.0	C48	4.8
4+50		12.2	82.5	78.2	C46		12.6
5+00		9.8	85.2	80.7	C45		10.0
5+50		7.2	87.8	83.5	C43		7.5
6+00		0.9	90.1	86.3	C38		5.1
6+50		2.5	92.5	89.1	C34		2.0
6+65	6" G.V.	1.8	93.2	89.9	C33		
6+70	F.H. TEE	1.1	93.9	90.2	C37	1.0	0.8
	⑤ F.H.	1.3	93.7	93.7	C02 C35		
6+92.9	= X-PT. 0" 11' RT.						

11/22/54

10

NOGAL ST.
(Cont'd.)

④		94.97					
7+00	13.06	107.96	0.07 11.3	94.90 95.7	91.8	C39	11.0
7+50			5.4	102.6	95.3	C73	5.4
8+00			1.6	106.4	98.6	C76	1.6
⑤	12.75	120.52	0.19	107.77			
8+50			11.2	109.3	102.2	C71	11.2
9+00			8.6	111.9	105.6	C63	8.6
9+50			6.2	114.3	107.9	C67	6.2
10+00			4.4	116.1	110.2	C59	4.4
10+50			3.0	117.5	112.0	C55	3.0
11+00			2.3	118.2	113.8	C44	2.3
11+50			1.4	119.1	115.6	C35	1.4
11+88	6' GV.		1.2 0.8	119.4 119.7	115.6	C41 C38	
11+93	FH TEE		1.0	119.5	115.6	C39	
⑤	FH		1.1	119.4	120.8	F14 C38	
④	11.88	131.15	1.25	119.27			
12+00			11.9	119.3	115.6	C37	11.9
12+50			10.6	120.6	115.6	C50	10.6
13+00			7.8	123.4	119.5	C32	7.8
13+50			3.6	127.6	123.3	C43	3.6
13+60	2" B.O. Ass.		2.5	128.7	124.2	C45	2.5
CK P.M.			3.08	128.07 = 128.05		Comp. Mon. @ 49 th of Nogal	

NOGAL ST
(Cont'd.)

WATER METERS
82.02

11/22/54

11.

0+73 S		76	74.4	75.8	F08	4715 Nogal
1+13 N		73	74.7	76.0	F13	4712
1+93 N		75	74.5	76.6	F21	4716-20 Nogal
2+49 N		66	75.2	77.0	F16	212-14 - Esquela
3+35 N		34	78.6	77.9	C02	4744 Nogal
3+49 S		12	80.8	78.7	C21	4745
3+82 S		0.5	81.5	79.6	C19	4755
4+15 N		0.7	81.3	80.4	C09	4750
4+50 S	94.97	4.5	83.5	82.3	C13	4761
4+72 N		11.0	84.0	82.9	C11	4754
4+80 S		9.9	85.1	83.8	C13	4769
5+49 N		7.7	87.3	87.0	C03	4760
5+80 S		4.2	90.8	89.0	C13 C15	4785
6+07 S		3.4	91.6	90.8	C08	4791
6+11 N		4.5	90.5	90.4	C01	4774
6+45 N		3.1	91.9	92.4	F05	4786
6+63 S	107.96	12.9	95.1	93.7	C14	4795
8+63 N	120.52	8.9	111.6	107.3	C43	4830
9+23 N		7.5	113.0	110.8	C22	4840
9+95 N		4.3	116.2	113.9	C23	4850
10+50 N		3.1	117.4	115.9	C15	4860
11+39 N		1.8	118.7	118.9	F02	4870 Nogal
13+11 N	131.15	6.2	125.0	124.9	C01	206 49TH
13+62 S			128.4	126.0	C24	180 49TH

ALLEY BLK A
 NOR. OF MEADE E of 35TH
 CONSTRUCTION GRADES & STAKES
 FOR 6" A.C. MAIN

11/23/52

12

BM		393.12	386.81	NW BP 35 TH & Meade		
0+80	Existing G.V. (2"?)				87.8	
					53	
					88.8	
1+00	Ⓐ		3.9 389.2	385.2	C40	89
1+50	Ⓑ		2.6 390.5	386.4	C41	90.0
2+00	Ⓒ		2.5 390.6	386.6	C40	90.6
2+50	Ⓓ		2.0 391.1	386.8	C43	90.7
3+00	Ⓔ		1.9 391.2	387.0	C42	91.1
IP	582	397.12	1.80 391.32			91.5
3+50			5.7 391.4	387.2	C42	91.8
4+00			5.3 391.8	387.4	C44	91.8
4+50			5.4 391.7	387.7	C40	91.7
5+00			4.9 392.2	387.9	C43	92.0
5+50			4.8 392.3	388.1	C42	92.4
6+00			4.1 393.0	388.3	C47	92.9
6+50			4.5 392.6	388.5	C41	92.6
6+77			5.1 392.0			91.6
6+82	Existing G.V. 0.5 RT.					91.3
IP	2.11	393.18	6.07 391.07			58
ck BM			5.10 388.08 = 388.20		NW BP MEADE & WILSON	
ck BM			6.38 386.80 = 386.81		NW BP 35 TH & Meade	

ALLEY BLK A
(Cont'd.)

11/23/54

13

WATER METERS

393.12

1+47 E		2.7	390.4	390.0	C04
1+98 E		2.6	390.5	390.3	C02
2+32 E		2.5	390.6	390.4	C02
2+63 E		2.4	390.7	390.6	C01
2+88 E		2.2	390.9	390.7	C02
3+02 W		1.9	391.2	390.8	C04
3+32 E	397.14	5.8	391.3	390.9	C04
3+73 E		5.5	391.6	391.0	C06
3+80 W		5.5	391.6	391.1	C05
4+15 E		5.0	392.1	391.7	C08
4+58 E		5.6	391.5	391.5	C02
5+08 E		5.1	392.0	391.7	C03
5+53 E		4.7	392.0	391.9	C05
5+57 E		4.7	392.0	391.9	C05
6+18 E		4.2	392.7	392.2	C03
6+64 E		4.5	392.6	392.0	C06
6+71 W		4.8	392.3	391.9	C04

NO EXISTING METER

NO EXISTING METER

PARKING
LOT
OF
LIBRARY

ALLEY BLK 9
LA MESA COLONY
Construction Grades & Stakes
For WATER Meters

Nov. 24, 1954

BURTON
SHUREY
MARTELL
ALEXANDER

14

PT. 5468-B W.O. 46211

SWBP 69TH E El CAJON

BM	2.53	459.28	456.75	
0+48 S.			3.75 455.53	455.00 C053
D	9.11	463.46	4.93 454.35	
0+83 S.			8.4 455.1	455.25 F015
1+38 S			7.49 456.0	456.25 F025
1+59 N			6.88 456.58	457.0 F040
1+89 S			5.76 457.7	458.0 F03
2+06 S			4.32 459.14	459.25 F01
2+88 S.			4.25 459.21	459.65 F095
3+27 N			3.82 459.64	460.0 F035
3+31.5 N			3.80 459.66	460.0 F035
3+43 S.			4.07 459.4	459.9 F05
3+61 N.			3.88 459.58	460.10 F05
4+58 S.			3.11 460.35	460.45 F0L
P	5.13	459.48	9.11 454.35	
CK BM			2.72 456.76	

RIALTO ST.
 FAMOSA TO W. PT. LOMA BLVD.
 Constr Stakes & Grd's for
 WATER METERS

1/26/1954

15

TBM.							
TD	0.51	25.58		25.07			Top FH TEMECULA & W. PT. LOMA BLVD
	0.06	12.59	13.05	12.53			
0+77	F.H. (5)		2.58	10.01	06.0		C40
	(Existing FH 216 from St	Flange					
	8.84	5.00	07.55				
0+92	swly	20.19	1.24	11.35			
			6.9	12.3	08.5		C18
2+22	swly		1.0	19.2	15.7		C35
2+76	swly		0.4	19.8	16.7		C31
3+15	swly		0.4	19.8	17.1		C27
3+23	NEly		2.6	17.6	16.7		C09
3+65	swly		1.2	18.8	16.8		C20
TD	3.55	21.80	1.94	18.25			
3+96	swly		3.0	18.8	16.3		C25
4+25	swly		3.7	18.1	15.5		C26
4+55	swly		4.7	17.1	14.0		C31
5+05	swly		6.2	15.6	11.5		C41
TD	2.21	16.55	7.46	14.30			

CK TBM 6.59 09.96 = 09.91 Top FH Temecula & Camarous

FB 899
 pg 22

POPPY PLACE
MANZANITA TO MANZANITA

STAKES & GED'S FOR
WATER METERS (SET AT P.L.)

BM.	0.16	288.47	288.31
0-04 ELY			4.9 283.6 283.7
0+32 WLY			5.5 283.0 283.2
1+76 SLY			2.2 279.3 278.2
TP	4.50	282.55	10.42 278.05
2+14 SLY			4.6 278.0 277.9
2+39 SLY			5.5 277.1 277.8
2+67 ⁵ NLY			2.3 280.3 277.8
2+77 ⁵ SLY			6.0 276.6 277.6
3+27 NLY			2.8 279.8 277.6
3+57 NLY			3.2 279.4 277.5
4+34 SLY F.H. ⑤			8.6 274.0 275.6
			1.86 277.69 = 277.69

11/29/54
SHOREY
MARTEL
ALEXANDER

16

(DWG. NO 11191-L)

TOP F.H. VIOLET & MANZANITA F.B. 817-53 & F.B. 818-62

F0^L

F0^Z

C1^L

C0^L

F0^Z

C2^S

F1^B

C2^Z

C1^Z

F1^B

277.39 FLANGE

SEW. M.H. MANZANITA & POPPY F.B. 818-62

VIOLET STREET
 POPLAR TO SYCAMORE
 STR'S & GRD'S FOR
 WATER METERS (STRA' BK. OF CURB)

11/29/54
 SHOREY
 MARTEL
 ALEXANDER

17

	0.40	286.20		286.40
0+89 NLY			2.5	284.3 282.4
1+01 SLY			4.5	282.3 281.6
1+18 NLY			3.3	283.5 282.3
1+74 SLY			5.1	281.7 280.9
2+30 ^S SLY			5.5	281.3 280.2
2+50 ^S SLY			5.8	281.0 279.7
4+10 NLY			6.8	280.0 278.6
TP	0.25	280.26	6.77	280.01
4+57 SLY			1.6	278.7 277.4
4+67 NLY			1.0	279.3 277.8
4+82 ^S SLY			2.0	278.3 277.1

(Dwg. No 11193-1)

Top E.H.S.E. COR. VIOLET & POPLAR

C12	2571	VIOLET
C03	2576	
C13	4156	PEPPER
C08	2568	
C14	2564	
C14	2560	
C14	2547	
C13	2548	
C15	?	
C13	?	

CONT'D. ON PAGE 18

TP	7.39	287.00	0.65	279.61
CK BM.			0.59	286.71 = 286.40

VIOLET STREET
 SYCAMORE TO SLY TERMINUS
 STR'S & GR'S FOR
 WATER METERS (STKD ON BL)

280.26

DWG. NO 11194-L

SEE PAGE 17

0+50 SLY	5.7	274.6	274.2	C02	2540	Violet
1+15 SLY	7.0	273.3	272.9	C02	2536	
1+27 SLY	7.2	273.1	272.6	C02	2530	
1+76 SLY	8.1	272.2	271.5	C02		
1+76 NLY	8.5	271.8	271.5	C03	2525	
2+05 SLY	9.0	271.3	270.9	C02	2518	
2+21 NLY	9.5	270.8	270.6	C02	2519	
	10.8	269.5	269.5	C02	2510	} FOUR METERS IN TRENCH SET ON 30' PL. RADIUS
	10.7	269.6	269.3	C03	2502	
	10.6	269.7	269.4	C03	2507	
	10.0	270.3	269.9	C03	2511	

TUBEROSE STREET
 POPLAR TO TURNAROUND
 AT SLY. TERMINUS
 STR'S & GDS FOR
 WATER METERS (SET AT P.L.)

11/30/59
 SHOREY
 MARTEL
 ALEXANDER

17

(DWG. 11196 & 11197 2)

SPIKE IN P.P. SW. COR. PEPPER & TUBEROSE ST (E.B. 714-22)

BM	3.65	287.67	289.02			
0+36 ELY			0.7	286.8	286.6	C ₀ ² 4163 POPLAR
1+18 "			1.2	286.5	285.6	C ₀ ² 2627 TUBEROSE
1+50 "			1.1	286.6	285.4	C ₁ ³ 2621 "
1+87 "			1.5	286.2	284.7	C ₁ ³ 2615 "
2+29 "			3.3	284.4	284.4	C ₀ ² 2609 "
3+74 "			7.9	279.9	282.8	F ₂ ² 2559 & 2557
4+25 "			4.7	283.0	282.0	C ₁ ² 2557 "
4+72 "			4.9	282.8	281.4	C ₁ ⁴ 2547 "
5+15 "			6.2	281.5	281.0	C ₀ ⁵ 2543 "
5+16 "			6.2	281.5	281.0	C ₀ ⁵ " "
TP	1.97	283.48	6.16	281.51		
5+43 "			2.3	281.2	280.5	C ₀ ² 2537 "
5+91 "			2.5	281.0	279.7	C ₀ ² 2533 "
6+24 "			5.9	277.6	279.2	F ₁ ⁶ 2529 "
6+54 " F.H. ③			6.1	277.4	278.6	F ₁ ² FLANGE 277.46
6+67 "			6.0	277.5	278.4	F ₀ ² 2525 "
7+17 "			6.5	277.0	277.6	F ₀ ⁶ 2523 "
7+88 "			7.4	276.1	276.4	F ₀ ³ 2519 "
			8.4	275.1	274.2	C ₁ ²
			10.0	273.5	274.6	F ₁ ²
			7.98	275.50	≈ 275.50	

CK. B.M.

SPIKE IN P.P. SW. COR. TUBEROSE

2 METERS IN TURNAROUND
 SET AT 30' P.L. RADIUS
 TUBEROSE PLACK

PEPPER DRIVE
 VIOLET TO TUBEROSE
 Construction Stks. & Grids SET
 FOR CHECK ON WATER METS.

Dec. 1, 1954

BEATTY
 SHUREY
 MARTELL
 SUPERVISOR

20

Existing Mets are set at p.l.

2 BM.	0.45	286.83		286.38			Top. FH. VIOLET & Poplar SE Cor
		Exist. flag. 594		280.89			
0 CH	(5) FH		5.6	281.2	280.2		C10
1 1+44 Sly	7.08	289.42	4.49	282.34	281.7		C06 4165 Pepper Dr
1 1+64 Nly			5.8	283.6	282.5		C11 4166 " "
1 1+75 Sly			6.3	283.1			
			5.3	284.1	282.2		C19 C09 4167 " "
2 2+32 Sly			5.2	284.2	283.1		C11 4173 " "
3 2+53 Nly			4.3	285.1	283.8		C13 4176 " "
4 2+78 Sly			4.2	285.2	283.8		C14 4177 " "
4 3+01 Sly			3.7	285.7	284.2		C15 4181 " "
5 3+38 Sly			2.9	286.5	284.9		C17 4185 " "
5 3+60 Nly			2.7	286.7	285.5		C12 4186 " "
5 3+87 Nly			2.8	286.6	285.5		C11 4190 " "
3 3+90 Sly			3.1	286.3	285.0		C13 4191 " "
6 4+32 Nly			3.85	285.6	285.1		C05 4194 " "
6 4+62 Nly			4.9	284.5	284.4		C01 4198 " "
6 CK BM			5.46	283.96 = 284.02			Nail in pole SW Cor Pepper & Tuberose

PEPPER DRIVE
 VIOLET ST. To 39TH ST
 (2) GRDS & STRS FOR
 WATER METERS

Dec. 2 1954

21

BM	7.98	283.65		275.67		Spike in SW Cor Sycamore & Violet
			5.32	278.33		
0+74 (3) FH			4.92	278.73	278.02	COL. & Exist FH 233 from &
1+93 S			7.6	276.1	274.5	C16 ✓
1+93 S	2.74	277.09	9.20	274.35		4147 Pepper
2+50 S			2.3	274.8	272.6	C22 ✓
3+16 S			5.3	271.7	270.8	C09 ✓
3+60 N			7.6	269.5	269.0	COL ✓
3+65 S			7.0	270.1	269.8	C03 ✓
3+96 S			8.0	269.1	268.6	C05 ✓
4+27 N			8.0	269.1	268.0	C01 ✓
4+62 S			8.0	269.1	267.8	C13 ✓
4+96 N			9.0	268.1	266.5	C16 ✓
5+13 N			9.0	268.1	266.2	C19 ✓
P 5+71 N	2.55	268.70	10.99	266.15	265.1	C11 ✓
			Exist. Fg	3.66	265.04	
6+06 (3) FH			3.8	264.9	264.0	C09 ✓ & Exist FH 229 (cyclone fence on PL)
6+50 N			3.2	265.5	263.0	C05 ✓
CE TBM 1101 in pole			3.18	265.52 = 265.33		4102
6+68 S			3.4	265.3	263.5	C18 ✓
CE TBM	2.37	260.20	10.87	257.83 = 257.81		4103
10+18 N			3.4	256.8	256.1	C07 ✓
10+91 N			5.3	254.9	253.4	F0 F05
11+07 S			3.5	256.7	255.1	C16 ✓

PEPPER DR
(Cont'd.)

12/2/52

22.

260.20

11+75 N	51	255.1	254.3	C08	4030 Pepper
12+17 S	33	256.9	253.9	C30	4011 "
12+20 N	4.3	255.9	253.8	C21	4024 "
12+71 ⑤ FH	Ex flg. 5.98	254.22		C13	
	5.7	254.5	253.2	C13	
12+72 S	5.8	254.4	253.7	C12	4003 Pepper
12+76 N	6.0	254.2	253.2	C10	4002 "
12+95 S	6.8	253.4	253.0	C04	4005 "
13+12 N	7.9	252.3	252.8	F05	4016 "
13+80 ³³ N	10.9	249.3	252.1	F28	4008 Pepper
CK TBM Nail in pole	2.98	257.22	= 257.21		

39TH ST.
PEPPER DR. TO JUNIPER
② GRADES & STKS FOR
WATER METERS

TBM 1.50 258.71 257.21
4.44 254.73 8.42 250.29

FC = 14 + 79.56

14+82 E		3.0	251.7	251.5	C02	2499	39 TH
15+33 ⁵ E		2.1	252.6	251.0	C12	2431	"
16+12 E		2.7	252.0	250.9	C20	2421	"
16+59 E		4.4	250.3	249.7	C06	2411	"
17+06 E		6.2	248.5	247.8	C07	2403	"
18+95 E	1.34 243.00	5.4	237.6	238.1	F05	2325	"
19+73 E		7.3	235.7	234.6	C1L	2313	"

20+8825 BK Nail & Juniper

TD 13.15 255.55 0.60 242.40

ck TD 5.99 249.56 = 249.55

DEC. 3 1952

BEATTY
SURREY
MARTELL
ALEXANDER

23.

Nail in pole.

So. Cor. SW. 4008 Pepper Dr

DEC. 3, 1954

24

MANZANITA DRIVE
VIOLET TO WLY. TERMINUS
② GRD. S. & STRS FOR
WATER METERS

BM	5.74	289.26		283.52			
			3.15	286.11			
1+60 Nly. = (45' Ely. of EC)			4.1	285.2	284.7	C05	Manzanita
3+00 ⁶⁵ Nly. = 31' Nly. of BC			4.2	285.1	282.9	C22	"
3+62 Nly.			7.7	281.6	281.1	C05	1008 "
3+71 Sly			6.8	282.5	280.3	C22	1007 "
3+98 NWly			8.7	280.6	279.8	C08	
4+14 Sely			8.8	280.5	278.4	C21	
4+37 NWly			10.2	279.1	277.5	C16	3978 "
4+88 NWly			11.9	277.4	275.2	C22	3970 "
D	0.84	277.09	13.01	276.25			
5+86 NWly			5.0	272.1	272.1	C20	3958 "
6+64 Sely			9.9	267.2	265.6	C16	3945 "
6+81 NWly			9.1	268.0	265.5	C25	3944 "
D	0.64	264.60	13.13	263.96			
7+61 NWly			1.5	263.1	260.6	C25	3934 "
8+01 NWly			5.0	259.6	257.8	C18	3928 "
8+41 NWly			8.9	255.7	254.9	C08	3922 "
8+61 Sely			11.4	253.2	253.2	C20	? "
8+81 Nly			11.7	252.9	251.7	C12	? (New found)
9+08 NWly			13.7	250.9	249.8	C11	3910 "
9+09 } Sely	9.20	261.14	12.72	251.88		FO2	3907 "
9+10 } Sely			11.5	249.6	250.0	FO2	3901 "
			11.4	249.7	250.0	FO3	
CK			0.7	261.07 = 261.05			

DEC. 6, 1954
 BEATTY
 SURVEY
 MARSHALL
 ALEXANDER

ALLEY BLKS C & F

NOR. OF MEADE, EAST OF 36TH ST.
 CONSTRUCTION GRD.S. & 572.5 SET
 FOR 6" A.C. WATER MAIN.

BM.	5.77	392.58		386.81	NW. BD	35TH & MEADE
IP	7.05	391.79	2.25	388.13 = 388.20	NW. BD	WILSON & MEADE
			7.82	382.74		

0+80 6" GV. by City
 (Existing 2" GV. 22" RT & pipe)

Station	Offset	Groundline	Grade	Grade	Grade	Grade	
1+00		5.5	386.3	380.8	C55	3859 Groundline & pipe	
1+50		4.9	386.9	381.2	C57	54	
2+00		5.2	386.6	381.6	C50	53	
2+50		5.2	386.6	382.0	C46	54	
3+00		5.3	386.5	382.4	C41	52	
3+50		4.7	387.1	382.8	C43	47	
4+00		4.1	387.7	383.2	C45	45	
4+50		3.8	388.0	383.6	C44	41	
5+00		3.6	388.2	384.0	C42	36	
5+50		3.6	388.2	384.4	C38	33	
6+00		3.0	388.8	384.8	C40	28	
IP 6+50	4.72	393.60	2.91	388.88	384.6	C43	27
6+80	6" GV. by City		5.6	388.0		28	
OK BM			7.13	386.47 = 386.68	SE. DP. MONROE & CHEROKEE		
7+40	6" GV. by City		5.3	388.3		62	

ALLEY BLK. 5 C & F.
(Cont'd.)

12/6/52

25.

393.60

7+50		4.8	388.8	384.2	c46	52
8+00		3.9	389.7	384.4	c53	48
8+50		4.3	389.3	384.6	c47	41
9+00		4.1	389.5	384.8	c47	41
9+50		4.3	389.3	385.0	c43	46
10+00		4.8	388.8	385.2	c36	52
10+50		4.2	389.4	385.4	c40	47
11+00	5.82	395.22	4.20	389.4		
11+00		5.7	389.5	385.7	c38	41
11+50		5.7	389.5	385.9	c36	57
12+00		5.0	390.2	386.1	c41	53
12+50		4.9	390.3	386.3	c40	49
13+00		4.7	390.5	386.5	c40	48
13+25		4.2	391.0	386.6	c44 ✓	46
13+50		4.9	390.3	386.0	c43	54
13+84	Connect. to East of City	7.8	387.4			83
D	1.14	392.81	6.55	388.67		
			6.39	386.47 = 386.68		

ALLEY BLK. 5 C & F.

12/6/54

27.

(Cont'd)

WATER METERS

1+44 E.	391.79	5.0	386.8	385.6	C12
1+45 E.		4.9	386.9	385.6	C12
1+46 W.		5.6	386.2	385.6	C02
1+93 E		5.1	386.7	386.0	C07
2+04 W.		5.3	386.5	386.0	C05
2+26 E		5.3	386.5	386.2	C03
2+34 W		5.2	386.6	386.2	C04
2+51 E		5.1	386.7	386.4	C03
2+58 W		5.2	386.6	386.4	C02
2+77 E		5.2	386.6	386.6	C00
3+01 E		5.2	386.6	385.8	F02
3+42 W		4.4	387.4	387.1	C03
3+59 E		4.6	387.2	387.2	C00
3+99 W		4.0	387.8	387.6	C02
4+08 E		4.0	387.8	387.6	C02
4+34 W.		3.8	388.0	387.8	C02
4+53 E		3.8	388.0	387.9	C01
4+69 W		3.7	388.1	388.1	C02
5+04 E		3.5	388.3	388.3	C00
5+04 W		3.4	388.4	388.4	C00
5+09 W.		3.4	388.4	388.4	C00
5+14 E		3.5	388.3	388.4	F01
5+25 W.		3.2	388.6	388.7	F01

ALLEY BLK 3 C & F.

12/6/54

28.

(Cont'd)

WATER METERS

391.79

5+50 E	2.7	388.5	388.7	F02
5+79 W	2.8	389.0	389.0	C02
5+91 E	3.1	388.7	389.0	F03
6+16 E	2.9	388.7	389.2	F03
6+39 W	2.4	389.4	389.0	C04
6+39 E	2.9	388.9	388.8	C01
8+03 E	3.8	389.8	388.2	C16
8+38 W	4.0	389.6	388.5	C12
8+56 E	4.0	389.6	388.4	C12
8+59 E	4.2	389.4	388.4	C12
8+81 W	4.1	389.5	388.7	C08
9+15 E	4.4	389.2	388.7	C05
9+58 E	4.5	389.1	388.8	C03
9+67 W	4.2	389.4	389.0	C04
10+03 W	4.3	389.3	389.2	C01
10+14 E	4.6	389.0	389.1	F01
10+51 E	4.2	389.4	389.2	C02
10+61 W	4.4	389.2	389.4	F02
11+15 W	5.8	389.4	389.6	F02
11+17 E	5.8	389.4	389.5	F01
11+54 W	5.3	389.9	389.8	C01
11+63 E	5.0	389.8	389.7	C01
11+91 E	5.1	390.1	389.8	C03
12+09 W	5.3	389.9	390.0	F01
12+31 E	5.1	390.1	390.0	C01
12+58 W	4.6	390.6	390.2	C04
12+59 W	4.7	390.5	390.3	C02
12+65 E	4.6	390.6	390.1	C05
12+88 E	4.7	390.5	390.2	C03
12+93 W	4.7	390.5	390.4	C01
13+19 E	4.3	390.9	390.3	C06
13+34 W	4.7	390.5	390.4	C01
13+37 E	4.3	390.9	390.1	C08
13+62 W	5.8	389.4	389.3	C01

393.60

395.22

DEC 7 1952

BEATTY
SHOREY
MARTELL
ALEXANDER

29

ALLEY BLK. 39

No. of UNIVERSITY; East of 39th
 ③ Construction Strs & Grds for
 6" A.C. WATER

BM					NW B.P. 39th & University
	6.91	354.21		347.30	
0+80	6" Gr. by City		5.4	348.8	348.65 Elev. Ground line & pipe
1+00			5.2	349.0	348.8
1+50			4.8	349.4	349.2
2+00			4.2	350.0	349.6
TP	9.38	360.37	3.22	350.99	351.1
2+50			8.9	351.5	351.1
3+00			6.6	353.8	353.6
3+50			6.1	354.3	354.0
4+00			5.1	355.3	355.0
4+50			4.0	356.4	355.9
5+00			3.5	356.9	356.6
5+50			2.8	357.6	357.2
6+00			2.1	358.3	358.2
6+50			0.9	359.5	359.3
6+80	Existing 6" Gr. 1' L & 1/4	1.4	359.0		358.5
TP	6.39	364.50	2.26	358.11	358.2
OK TBM.			5.13	359.37 = 359.38	359.2

WATER METERS

0+81 1/2 E	354.2	5.4	348.8	348.8	C00
1+50 E		4.7	349.5	349.2	C03
1+78 E		4.4	349.8	349.4	C04

L.P. NW CO. Ret. Alley (F.B. 878.09.3)

ALLEY BLK 39
(Cont'd.)

12/7/52

39.

B	2+04 W	354.2	4.2	350.0	349.8	C02
	2+06 E		4.3	349.9	349.8	C01
0	2+46 E	360.37	9.1	351.3	350.8	C05
	2+61 W (0.75 BK)		8.2	352.2	351.1	C11
1	3+09 E		7.2	353.2	352.4	C08
	3+11 W		7.1	353.3	352.4	C09
1	3+58 E		6.0	354.4	352.5	C09
	3+58 W (1.0 BK)		6.1	354.3	353.5	C08
2	3+91 E		5.0	355.4	354.2	C12
7	4+07 W		4.7	355.7	354.6	C11
2	4+09 E		5.0	355.4	354.7	C07
	4+47 E		4.1	356.3	355.6	C02
3	4+58 W		4.1	356.3	355.9	C04
	4+84 E		3.6	356.8	356.4	C04
3	4+85 E		3.6	356.8	356.4	C04
	4+96 W		3.6	356.8	356.7	C01
	5+28 E		3.1	357.3	357.4	F01
	5+30 W (0.75 BK)		3.0	357.4	357.4	C00
	5+58 E		2.8	357.6	357.8	F02
	5+73 W		2.5	357.9	358.0	F01
	5+97 E		2.1	358.3	358.3	C00
	6+16 W (0.65 BK)		1.6	358.8	358.5	C03
7	6+25 W (0.75 BK)		1.3	359.1	358.5	C06
	6+26 W				358.5	
0	6+27 W (0.75 BK)		1.0	359.4	358.5	C09
1	6+47 E		0.9	359.5	358.7	C08

DEC 7, 1954

BEATTY
SIMPSON
MARTELL
ALEXANDER

31.

ALLEY BLK 197

NOR. OF UNIVERSITY, E. OF SWIFT

③ Construction Grds & Stks for
6" A.C. Main.

BM	7.38	366.20		358.82					
0+80	6" GV. by City		5.3	360.9					
1+00			4.3	361.9	357.2	C47			
1+50			2.5	363.7	358.8	C49			
HP	6.92	371.46	1.68	362.52					
2+00			7.1	364.4	360.0	C44			
2+50			5.8	365.7	360.6	C51			
3+00			4.3	367.2	361.3	C59			
3+50			4.9	366.6	362.0	C46			
4+00			4.2	367.3	362.7	C16			
4+50			3.1	368.4	363.4	C50			
5+00			2.8	368.7	364.1	C46			
HP	5.30	374.44	2.32	369.14					
5+50			5.5	368.9	364.8	C41			
6+00			4.7	369.7	365.3	C14			
6+50			3.8	370.6	365.8	C48			
6+80	6" GV. by City		4.5						
HP	1.37	368.00	7.81	366.63					
CK BM.			9.18	358.82 = 358.82					

NW. BR. University & Swift

360.7 Elev ground line
5.5 & of pipeSpoil
Embankment
not shown in Prelim

2+73 0.0 Area

2+75 52 37 39

2+82 53 34 37

2+80 46 34 37

2+89 52 52

3+00 0.0 Area

WATER METERS

0+83 W	EXIST MET	NOT SHOWN ON PLANS	5.6	360.6	361.6	C02
1+11 E			3.9	362.3	361.8	C05
1+15 W			3.9	362.3	361.8	C05
1+80 E			2.1	364.1	363.6	C05
1+85 W			2.0	364.2	363.4	C08

ALLEY BLK. 197

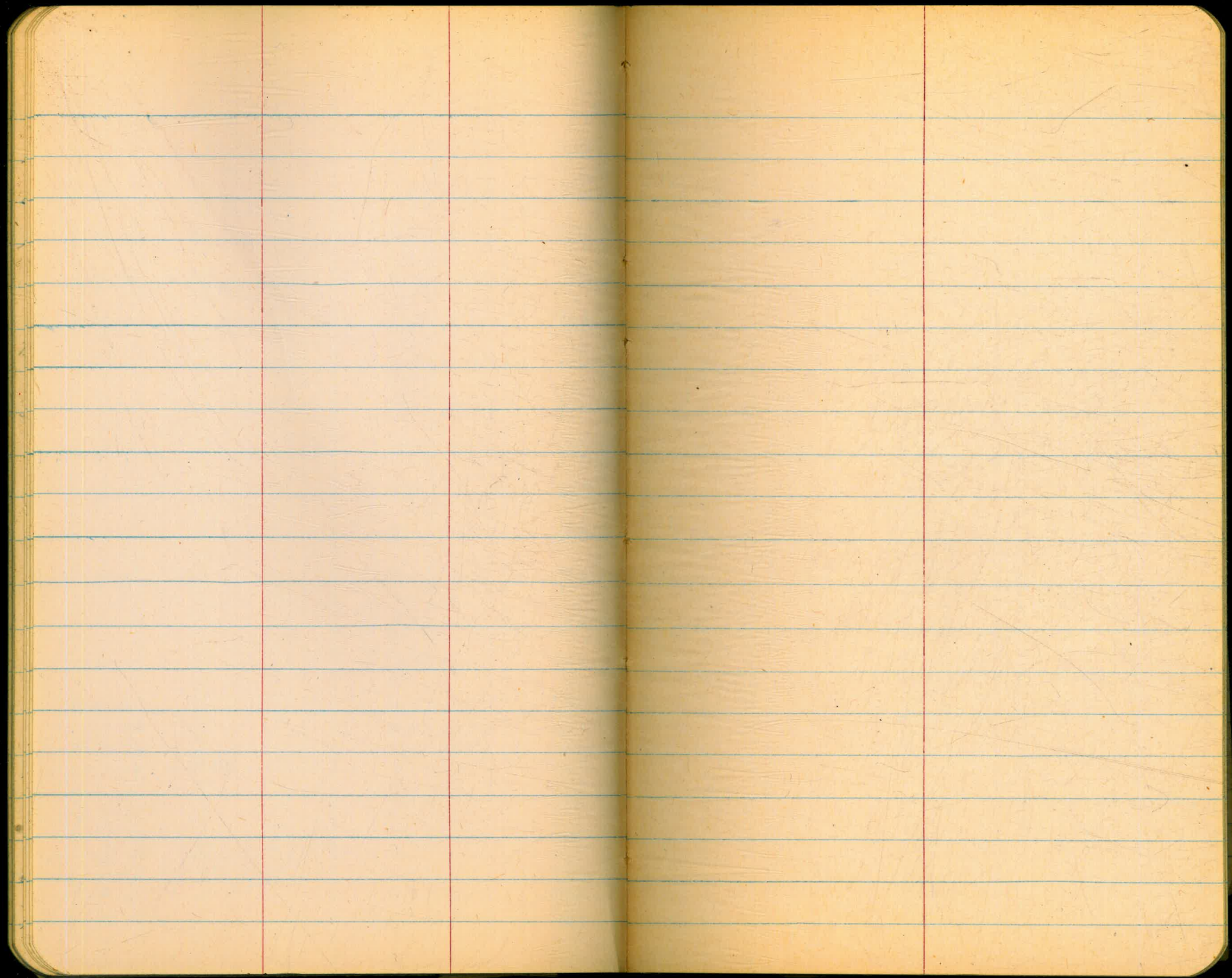
Cont'd

12/7/54

32

2+17 W	371.46	6.7	364.8	364.9	F01
2+22 E		6.5	365.0	364.2	C03
2+79 W		6.4	365.1	364.8	C03
2+89 E		5.4	366.1	365.1	C10
3+28 W		5.4	366.1	365.6	C03
3+33 E		4.8	366.7	365.8	C03
3+67 W (0.75 BK 54)		5.2	366.3	366.1	C03
3+73 E		4.9	366.6	366.4	C03
4+09 E		4.1	367.4	366.9	C05
4+17 W		4.3	367.2	366.9	C03
4+41 E		3.7	367.8	367.4	C04
4+65 W		3.5	368.0	367.6	C04
5+04 E		2.7	368.8	368.3	C05
5+09 W		2.7	368.8	368.3	C05
5+36 E		2.5	369.0	368.8	C03
5+47 W		2.4	369.1	368.8	C03
5+88 W (0.2 BK)	374.44	5.3	369.1	369.3	F03
6+00 E		4.7	369.7	369.7	C02
6+03 E		4.7	369.7	369.7	C02
6+06 W		4.9	369.5	369.8	F03
6+08 E		4.8	369.6	369.8	F02
6+09 W		4.8	369.6	369.8	F03
6+21 W		4.3	370.1	369.7	C04
6+54 E		4.3	370.1	369.8	C03

EXISTING METS
Not shown on
PLANS



1710-E - 1711E

1712W - 1715W

1778E - 1780E

179

277

277

277

278

372

373

376

376

470

471

474

474

570

570

574

574

579

670

674

6750

SPIKE IN POLE
S.W. COR. VIOLET &
SYCAMORE ST.

275.67



SPIKE IN FILE
S.W. COR. VIOLET &
SYCAMORE ST.

275.67

1+10 E	-	1+11 E
1+12 W	-	1+15 W
1+16 E		1+80 E
1+90 W		1+85 W
2+15 W		2+17 W
2+20 E		2+22 E
2+76 W		2+79 W
2+88 E		2+89 E
3+27 W		3+28 W
3+33 E		3+33 E
3+60 W		3+67 W
3+65 E		3+73 E
4+08 E		4+09 E
4+15 W		4+17 W
4+40 E		4+41 E
4+65 W		4+65 W
5+00 E		5+04 E
5+08 W		5+09 W
5+40 E		5+36 E
5+48 W		5+47 W
5+90 W		5+88 W
6+00 E		6+00 E
6+40 W		6+03 E
6+50 E		6+04 W
		6+05 E
		6+09 W
		6+41
		6+54

0+815 E	
1+50 E	
1+40 E	1+78 E
2+00 W	2+04 W
2+10 E	2+06 E
2+45 E	2+46 E
2+60 W	2+61 W
3+10 E	3+09 E
3+12 W	3+11 W
3+50 E	3+58 E
3+52 W	3+58 W
3+90 E	3+91 E
4+04 W	4+07 W
4+06 E	4+09 E
4+48 E	4+47 E
4+55 W	4+84 E
4+88 E	4+85 E
4+89 E	4+96 W
4+92 W	5+28 E
5+28 E	5+30 W
5+30 W	5+58 E
6+52 E	5+73
6+73 E	6+97
6+73 E	6+16
6+73 E	6+25
6+73 E	6+24
6+73 E	6+27
6+73 E	6+47

397.00
42

1+40 E	1+44 E
1+45 E	1+45 E
1+48 W	1+46 W
1+92 E	1+93 E
2+00 W	2+04 W
2+15 W	2+34 W
2+25 E	2+26 E
2+50 E	2+51 E
2+55 W	2+58 W
2+80 E	2+77 E
3+00 E	3+01 E
3+43 W	3+42 W
3+55 E	3+59 E
4+00 W	3+99 W
4+03 E	4+08 E
4+43 W	4+24 W
4+57 E	4+53 E
4+70 W	4+69 W
5+00 E	5+04 E
5+00 W	5+04 W
5+05 W	5+09 W
48 W	5+14 E
	5+45 W

23

5+51 E	5+50 E
5+75 W	5+79 W
5+90 E	5+91 E
6+18 E	6+16 E
6+38 W	6+39 W
6+40 E	6+39 E
8+00 E	8+03 E
8+40 W	8+38 W
8+50 E	8+56 E
8+52 E	8+59 E
8+75 W	8+81 W
9+20 E	9+15 E
9+50 E	9+58 E
9+58 W	9+67 W
10+00 W	10+03 W
10+09 E	10+14 E
10+48 E	10+51 E
10+54 W	10+61 W
11+03 W	11+15 W
11+10 E	11+17 E

20

11+50 W	11+54 W
11+58 E	11+63 E
11+85 E	11+94 E
12+00 W	12+09 W
12+25 E	12+31 E
12+50 W	12+58 W
12+52 W	12+59 W
12+58 E	12+65 E
12+92 E	12+88 E
12+92 W	12+92 W
13+70 E	13+19 E
13+25 W	13+34 W
13+25 E	13+37 E
13+52 W	13+62 W
13+75 W	13+91 W
13+76 W	

14
23
20
57
OR

3+62	- W	4006
3+71	E	4007
3+98	W	STIFF
4+14	E	STIFF out
4+37	W	3978
4+88	W	3970
5+86	W	3958
6+64	E	3945
6+81	W	3944
7+61	W	3934
8+01	W	3928
8+41	W	3922
8+61	E	?
8+81	W	NEW
9+08	W	3910
9+09	E	3907
9+10	E	3901

$$\begin{array}{r} 13+80 \overset{33}{=} \\ 1447954 \\ \hline 4533 \\ 587 \\ 5120 \\ \hline 9921 \end{array}$$

14+82	- E	2439
15+133	-	2431
16+12		2421
16+59		2411
17+06		2403
18+95		2325
19+73		2313

20+88²⁵ - PK MAIL

$$\begin{array}{r} 1447954 \\ 57828 \\ \hline 20+5772 \end{array}$$

~~6191~~⁹¹

10+18	N	4028
10+91	N	4036
11+07	S	4019
11+75	N	4030
12+17	S	4011
12+20	N	4024
12+71	S	FH
12+72	S	4003
12+76	N	4002
12+95	S	4005
13+17	N	4016
13+85	N	4008
	80E	

0+74-S-1 FH
 1+92 S 4149
 2+50 S 4141
 3+16 S 4133
 3+60 N 4134
 3+65 S 4127
 3+96⁵ N 4130
 4+27-N 4124
 4+62-S 4121
 4+96 N 4120
 5+13 N 4116
 5+71 N 4110
 6+46 S- FH
 6+50 N 4102
 6+68 S 4103

~~0+70~~

~~1+47 E~~
~~1+98 E~~
~~2+32 E~~
~~2+64 E~~
~~2+88 E~~
~~3+05 W~~
~~3+32 E~~
~~3+73 E~~
~~3+80 W~~
~~4+15 E~~
~~4+58 E~~
~~5+08 E~~
~~5+54 E~~
~~5+57 E~~
~~6+18 E~~
~~6+64 E~~
~~6+72 W~~

6+80

~~0+72~~
LINK

1+47 E
 1+98 E
 2+32 E
 2+63 E
 2+88 E
 3+02 W
 3+32 E
 3+73 E
 3+80 W
 4+15 E
 4+58 E
 5+08 E
 5+53 E
 5+57 E
 6+18 E
 6+64 E
 6+71 W

6+77 ENO

0+76 S-4715 - 0+73 S
 1+18 N 4712 - 1+13 N
 1+95 N 4716.20 1+93 N
 2+150 N -212-14 2+49 N
 3+25 N 4744 3+35 N
 3+52 S 4745 - 3+49 S
 3+88 S 4755 - 3+82 S
 4+20 N 4750 4+15 N
 4+52 S 4761 4+50 S
 4+75 N 4754 4+72 N
 4+85 S -4769 4+80 S
 5+40 N 4760 5+49 N

 4785 - 5+80 S
 4791 - 6+07 S
 6+18 N 4774 - 6+11 N

 6+45 N 4784 - 6+45 N
 4795 6+63 S
 8+65 N 4830 8+63 N
 9+25 N 4840 9+23 N
 10+00 N 4850 9+95 N
 10+48 N 4860 10+50 N
 11+45 N 4870 11+39 N
 2 N 204 13+11 N

FELDSPAR

1+00 S 4529-31 -	1+16 S
1+45 S 2111	1+47 N S
1+43 N. ? 2112	1+47 N
1+90 N. ? 2120	2+00 S
1+98 S. 2119	2+15 N
2+48 N. 2126-28	2+66 N
2+52 S. 2127-29	2+66 S
2+98 S. 2133	3+10 S
3+08 N. ? 2136	3+11 N
3+10 S. 2143	3+22 S
3+45 N. 2142-48	3+47 N
3+90 N. 2152	4+10 S
4+25 S. T.G. 2155	4+12 N
4+75 N. 2158-64	4+55 N
5+00 S. 2167 2165	4+77 S
5+40 S. 4540-42	5+38 S
5+50 N. 2176	5+50 N
7+00 N. 4665	6+83 N
7+20 S 2211	7+33 S
7+50 N 2216	7+50 N
7+70 S 2119	8+00 S
8+20 S 2227	8+70 S
8+25 N 2228-30	8+28 N

0+81 E

1+60 E

1+90 E

2+21 E

2+93 E

3+25 E

4+00 E

4+22 E

4+96 W

5+18 E

5+40 E

1-3-54 141 K-20

6542 To $\frac{1}{2}$ Cor 87°52 RT
from Cor to R-21

$$\begin{array}{r} 225' @ 6'16 = 2+23'65 \Delta \\ .006 \\ \hline 1350 \end{array}$$

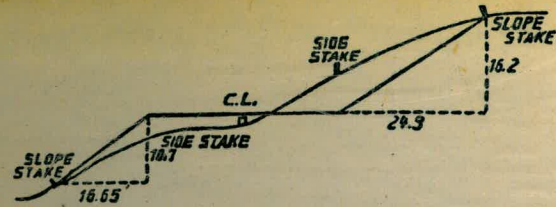
$$\begin{array}{r} 300' @ 3'17 = 299'54 5+23'17 \Delta \\ .0016 \\ \hline 4800 \end{array}$$

$$\begin{array}{r} 300' @ 2'00 = 299'25 8+22'42 \\ .0025 \\ \hline 7500 \end{array}$$

$$\begin{array}{r} 239.33 @ 3'37 = 238'85 10+61'27 \\ .002 \\ \hline 47866 \\ = R-21 \end{array}$$

S 81°30' E Mag 329

Please Return to
 City of San Diego Water Dept.
 Room 903 Civic Center



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/2 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	67.30	67.45	67.60	67.75	67.90	68.05	68.20	68.35	68.50	68.65	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

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