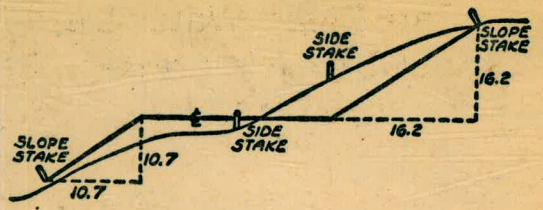

Distances from Side Stakes for Cross-Sectioning

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.

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	.70	.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	.711	.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	.985	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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INDEX

Groveland St.
Euclid St. to 54th
& Profile Proposed Waterline

Shorey
Martell
Alexander
10/5/53

6+40 = E/L San Jacinto

6+00 = ℄ San Jacinto

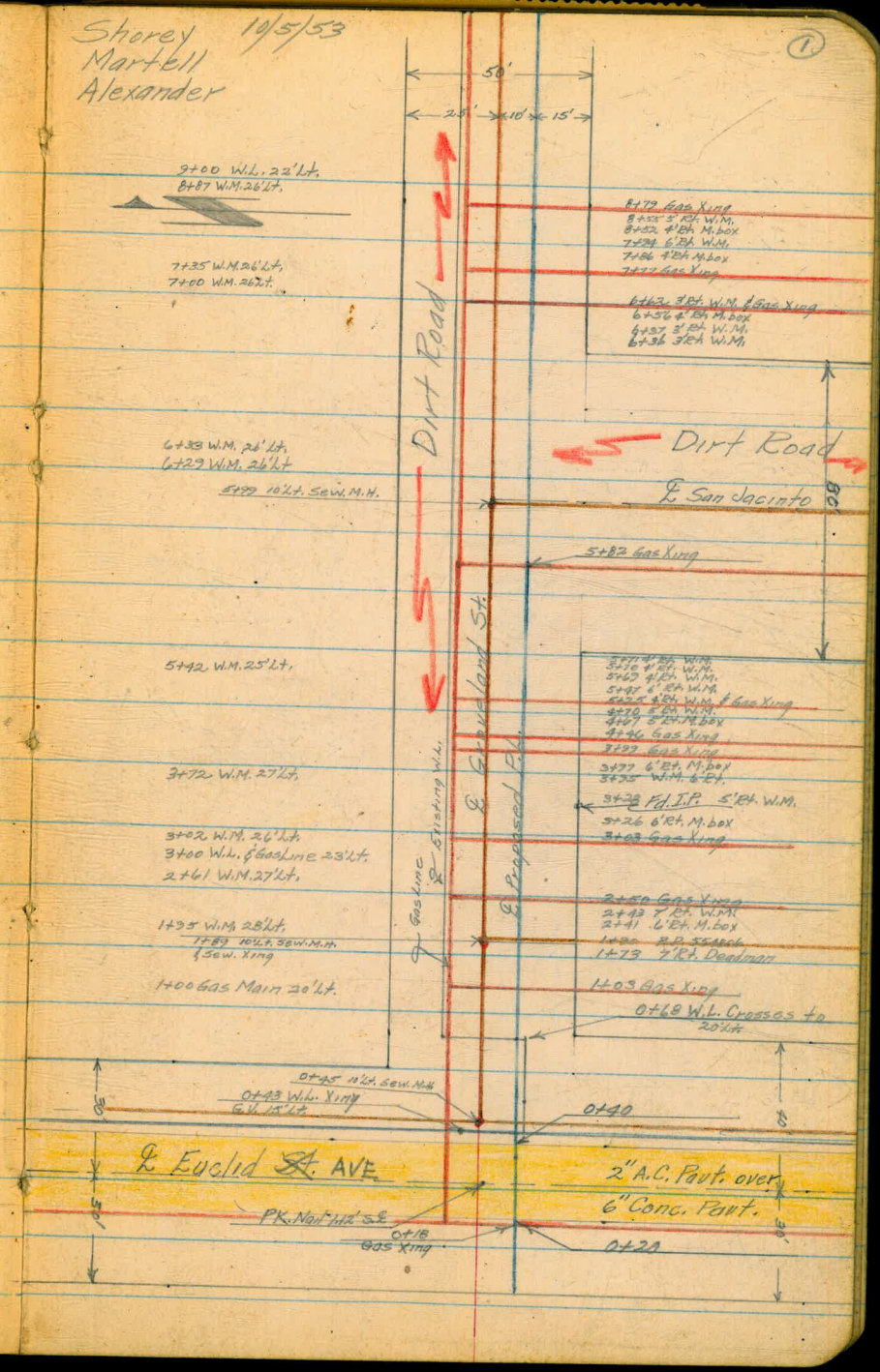
5+60 = W/L San Jacinto

0+70 = E/L Euclid St. S. of Groveland

0+60 = E/L Euclid St. N. of Groveland

0+30 = ℄ Euclid St

0+00 = W/L Euclid St.



Groveland St.
Euclid to 54th St.
& Profile Proposed Waterline

19+19 23 = E/L 54th St.

18+87 96 = & 54th St.

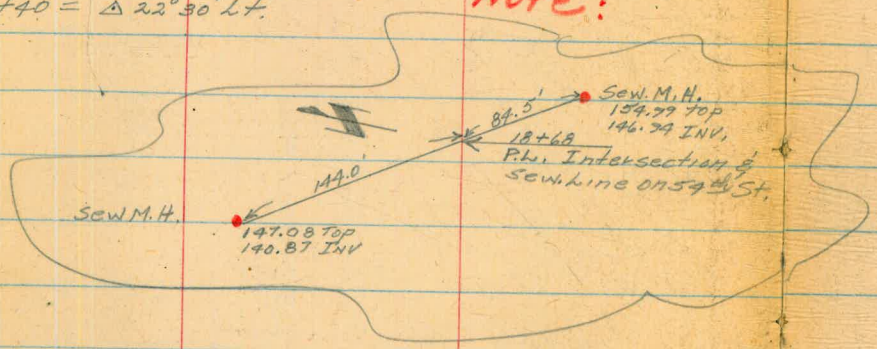
18+56 69 = W/L 54th St.

13+96 23 = Δ 22°30' Rt.

13+50 76 & 53rd St.

13+40 = Δ 22°30' Lt.

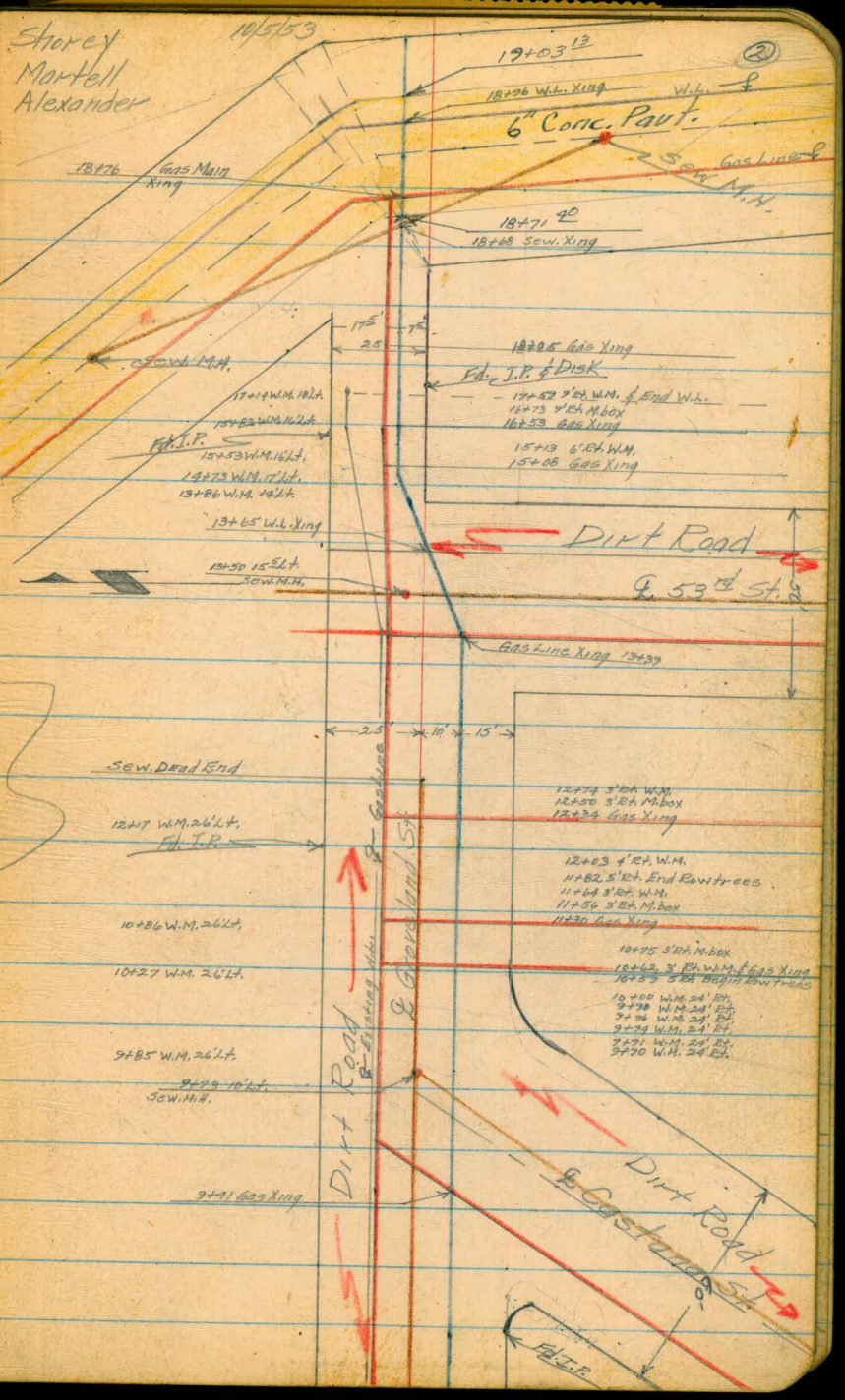
Note:



9+61 24 = & Castana St.

Shorey
Martell
Alexander

10/5/53



Groveland St.
Euclid to 54th St.
℄ Profile Proposed W.L.

Shorey 10/5/53
Martell
Alexander

(3)

B.M.	12.14	133.19	121.05	B.P.S.W. Cor. Bridge on 54th St. S. of Market F.B. 1632-28
TP	13.28	146.32	0.15 133.04	
TP	10.06	155.23	0.45 145.87	
TBM	2.35	149.06	2.22 146.71	Nail in P.P. 12+87 27' Lt.
TP	1.43	144.95	5.54 143.52	I.P. W. Cor. Lot @ 5225 Groveland St.
TP	4.03	142.25	6.73 138.22	
0+00			13.1 129.1	
0+15			9.7 132.5	
0+20			9.49 132.7	W. Edge A.C. Pav't
0+30			9.22 133.1	
0+40			15.74 Inv. 9.44 132.8	E. Edge A.C. Pav't
0+50			9.4 132.8	
0+45			9.51 132.68	Sew. M.H. So. Edge 10' Lt.
1+00			7.9 134.3	
1+50			6.2 136.0	
1+89			12.78 129.47 Inv. 4.78 137.47	Sew. M.H. S. Edge 10' Lt.
2+00			5.2 137.0	
2+50			4.7 137.5	
3+00			4.6 137.6	

Groveland St.
Euclid to 54th St.
& Profile Proposed Water Line

Shorey
Martell
Alexander

10/6/53

		142.25		
3+50			4.3	137.9
4+00			3.9	138.3
4+50			3.6	138.6
5+00			3.2	139.0
5+50			2.6	139.6
TP	7.56	147.98	1.83	140.42
6+00			7.6	140.4
5+39			12.38	135.00
			7.38	140.60
6+50			7.0	141.0
7+00			6.4	141.6
7+50			5.9	142.1
8+00			5.6	142.4
8+50			5.2	142.8
9+00			4.8	143.2
9+50			4.2	143.8
9+73			10.42	137.54
			4.52	143.46
10+00			4.0	144.0
10+50			3.9	144.1
11+00			3.3	144.7
11+50			2.8	145.2
12+00			3.4	145.6
12+50			1.7	146.3
TP	9.57	156.03	7.72	140.3
			1.52	146.46

Inv.
Sew. M.H. S. Edge 10' Lt.

Inv.
Sew. M.H. S. Edge 10' Lt.

Inv.
Sew. M.H. S. Edge 15^{5} Lt. @ 13+50

Groveland St.
Euclid to 54th St
℄ Profile Proposed W.L.

Shorey
Martell
Alexander

10/6/53

(5)

		156.03		
13+00			9.5	146.5
13+40			9.2	146.8
13+96 47			10.0	146.0
14+00			10.0	146.0
14+50			8.8	147.2
15+00			7.8	148.2
15+50			6.9	149.1
16+00			6.3	149.7
16+50			5.1	150.9
17+00			4.0	152.0
17+50			3.8	152.2
18+00			4.5	151.5
18+50			4.8	151.2
18+71 10			4.53	151.5
18+87 36			4.00	152.0
19+03 13			3.95	152.08
19+19 23			3.6	152.4
TP	1.23	151.61	5.65	150.38
TP	1.44	140.27	12.78	138.83
TP	1.68	129.98	11.97	128.30
Chi. B.M.			8.88	121.10 = 121.05

△ Pt. 22°30' Lt.

△ Pt. 22°30' Rt.

W. Edge Conc. Pav't
℄ 54th St.

E. Edge Conc. Pav't.
E/L 54th St.

B.P.S.W. Cor. Bridge on 54th St. S. of Market F.B. 1632-28

Federal Blvd.
Winnett to W/L Lot 198
& Profile Proposed P.L.

10+68 58 = End of Line @ W/L Lot 198

9+39 64 Δ 14°38' Lt.

6+69 22 Δ 6°30' Rt.

0+60 84 = W/L Winnett St.

0+30 42 = ℄ Winnett St.

0+00 = E/L Winnett St.

10/7/53

(6)

Shorey
Martell
Alexander

10+65 2" Blowoff on ℄
10+62 11' Lt. W.M.
10+40 18" Storm Drain
6" Conc. Head wall
10+25 0' Lt. M.box
10+23 0' Lt. M.box
10+18 End 1" A.C. Drive
9+83 Begin 1" A.C. Drive
9+73 4' Lt. M.box
9+50 3' Lt. W.L.
9+39 64 Δ 14°38' Lt.
9+37 64 2" W.L. 5' Lt.
8+00 2" W.L. on ℄
7+69 7' Lt. W.M.
6+69 22 Δ 6°30' Rt.
6+29 24" Storm Drain
6" Conc. Head wall
6+05 6' Lt. M.box
5+77 End 1" oil Drive
5+62 Begin 1" oil Drive
4+83 8' Lt. W.M.
4+32 10' Lt P.P. 300787H
4+17 4' Lt. 4"x4" Sign
2+37 5' Lt. Deadman Guy
2+07 P.P. 374978 5' Lt.
1+88 5' Lt. Deadman Guy
80° 2'
1+88 W.M. 50' Rt
0+86 W.M. 44' Rt.
0+39 Clean out box
2" A.C. Pavt.
60' ℄ Winnett St.
0+32 24" Storm Drain
0+27
0+12 12" Storm Drain 3' Lt.
0+28 W.M. 44' Rt.
0+18 9' Lt. 4"x4" Sign
0+14 Guard fence
0+13 2' Lt 2½ Steel Post

℄ Federal Blvd.
9" Conc. Pavt.
10' 20' 50'

Federal Blvd.

Winnett to 1068.58 W. to W/L Lt. 198
& Profile Proposed P.L.

B.M.	8.79 8.79 8.19	281.68 ~~333.19~~ ~~333.19~~	272.89 ~~324.40~~ Assumed ~~326.00~~ Assumed	
0+00			8.4	273.3
0+12				
0+16			8.5	273.2
0+39				
0+50			8.6	273.1
0+85			9.2	272.5
1+00			9.3	272.4
1+50			9.8	271.9
2+00			10.2	271.5
2+50			10.7	271.0
3+00			11.2	270.5
3+50			11.7	270.0
4+00			12.1	269.6
4+50			12.4	269.3
TP	3.56	273.77 ~~325.28~~	11.47	270.21 ~~321.72~~
5+00			5.0	268.8
TP TBM	8.43	276.70	5.50	268.27 ~~319.78~~
5+30			8.2	268.5
5+58			8.2	268.5
5+60			8.2	268.5

Shorey
Martell
Alexander

10/7/53

(7)

Lt. | ℄ = ℄ Fed. Blvd | Rt.

B.P. ℄ Winnett & S. Edge Pavt. on Federal Blvd. F.B. 1652-60
CT ℄ Federal Blvd. & Winnett St.

8.0 / 30' | 8.7 / 23' | 8.16 / 18' Edge Pavt. | 7.93 C | 8.43 / 18' Edge Pavt | 8.5 / 40'

9.21 / 23.5' Storm Drain Inv.

E. Edge A.C. Pavt. on Winnett

14.10 / 63' Inv. Storm Drain

8.72 / 18' Edge Pavt. | 8.43 C

W. Edge A.C. Pavt. on Winnett

30 / 30' | 9.3 / 24' | 9.21 / 18' Edge Pavt. | 8.81 C

2.8 / 30' | 9.7 / 24' | 9.70 / 18' Edge Pavt. | 9.23 C

2.3 / 30' | 10.3 / 23' | 10.13 / 18' Edge Pavt. | 9.71 C

5.2 / 30' | 10.9 / 24' | 10.52 / 18' Edge Pavt. | 10.12 C

7.7 / 30' | 11.1 / 23' | 11.01 / 18' Edge Pavt. | 10.63 C

8.8 / 30' | 11.6 / 23' | 11.51 / 18' Edge Pavt. | 11.02 C

8.1 / 30' | 12.0 / 23' | 11.92 / 18' Edge Pavt | 11.52 C

9.1 / 30' | 11.8 / 26' | 12.31 / 18' Edge Pavt | 11.93 C

1.0 / 30' | 4.6 / 23' | 4.76 / 18' Edge Pavt. | 4.42 C

Conc. Headwall for Drain @ 6+29

4.0 / 30' | 8.3 / 23' | 8.11 / 18' Edge Pavt | 7.74 C

4.8 / 30' Top Cutbank

7.6 / 30' Bott Cutbank

Federal Blvd

Winnett W. to W/L Lot 198

℄ Profile Proposed W.L.

276.70

6+00		8.6	268.1
6+29			
6+50		9.1	267.6
6+69 $\frac{22}{}$	△ 6°30' Rt.	9.4	267.3
7+00		9.5	267.2
7+50.		10.1	266.6
8+00		10.8	265.9
8+50.		11.2	265.5
9+00		11.7	265.0
9+04		11.63	Edge Pavt.
9+39 $\frac{64}{}$	△ 14°38' Lt.	11.79	On Pavt.
TBM	7.11 271.25	12.56	264.14
9+50		6.50	on Pavt. 264.7
9+79		6.61	On Pavt.
9+83		6.83	on Edge Pavt.
10+00		6.8	264.4
10+40			
10+50		7.3	263.9
10+68 $\frac{58}{}$	= End of Line	7.5	263.7
TP	8.04 273.20	6.09	265.16
Ch. B.M.		0.32	272.88 = 272.89

Shorey
Martell
Alexander

10/8/53

(8)

℄ = ℄ Federal Blvd

Lt			Rt.
7.7 / 30'	8.50 / 18' Edge Pavt.	8.22 C	
11.01 / 24' Inv. of Storm Drain			13.35 / 30' Inv. Storm Drain
6.6 / 30'	9.2 / 24'	8.20 / 18' Edge Pavt.	8.63 C
9.12 / 30'	9.2 / 23'	9.07 / 18' Edge Pavt.	8.88 C
2.8 / 30'	9.6 / 24'	9.38 / 18' Edge Pavt.	9.15 C
3.0 / 30'	10.1 / 24'	9.95 / 18' Edge Pavt.	9.53 C
5.0 / 30'	10.1 / 25'	10.51 / 18' Edge Pavt.	9.99 C
5.5 / 30'	11.6 / 25'	11.05 / 18' Edge Pavt.	10.96 C
8.9 / 30'	11.3 / 22'	11.61 / 19' Edge Pavt.	10.89 C
10.8 / 30'	11.23 / 23' Edge Pavt.		11.30 C

N.E. Cor. Culvert Headwall @ 10+36 24' Lt. of ℄ St.

4.3 / 30'	6.3 / 27'	6.54 / 22' Edge Pavt.	5.87 C
7.5 / 30' Top Cut bank.			
4.2 / 30' Bottom Cut bank			
		6.96 / 19' Edge Pavt.	6.90 C
10.47 / 24' Inv. Storm Drain			11.58 / 36' Inv. Storm Drain
+0.3 / 30'	7.3 / 22'	7.23 / 19' Edge Pavt.	6.80 C
+1.9 / 30'	7.6 / 23'	7.35 / 18' Edge Pavt.	7.02 C

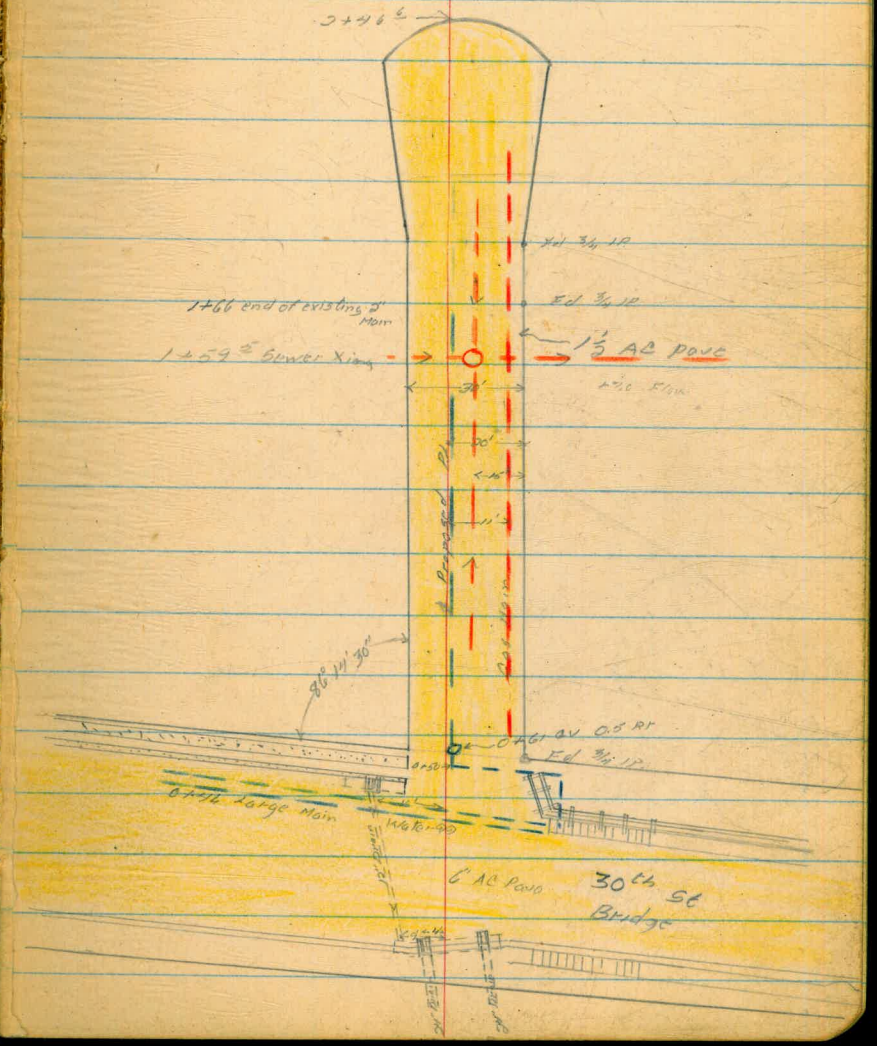
B.P. ℄ Winnett & S. Edge Pavt. on Federal Blvd. F.B. 1652-60

Maple Court
30th St to West Term

2+46 6	end of sidewalk
1+58 95	P.O.T.
0+60 13	P.O.T.
0+00	East Prop Line 30th

West
Williams
Yaron Fakos
Kemp

1-13-84



Proposed PL

Maple Court

128	300.24	298.96	
2.07	292.10	10.01	290.03
10.28	290.79	11.59	280.51
0+00		11.0	279.8
+12		10.54	280.3
+12 Lt		11.54	279.3
+12		12.50	273.3
+13		14.1	276.7
+47		13.7	277.1
+50		11.22	279.6
1+00		7.28	283.5
+50		4.32	286.5
+59 Lt		3.94	85 286.9
			+ 20 to Flow Line
2+00		2.82	288.0
+25		2.47	288.3
+46 Lt		2.24	288.6
11.01	301.02	0.78	290.01
		209	298.93 =

(10)

BM BP NW Cor Nutmeg + 29th

Turn on 3/4 IP prop cor 20' Rt 0+60 12"

on Sidewalk East prop Line 30" St

Top Ob

Outlet

Flow Line 4° Lt to 24" Conc Storm Drain

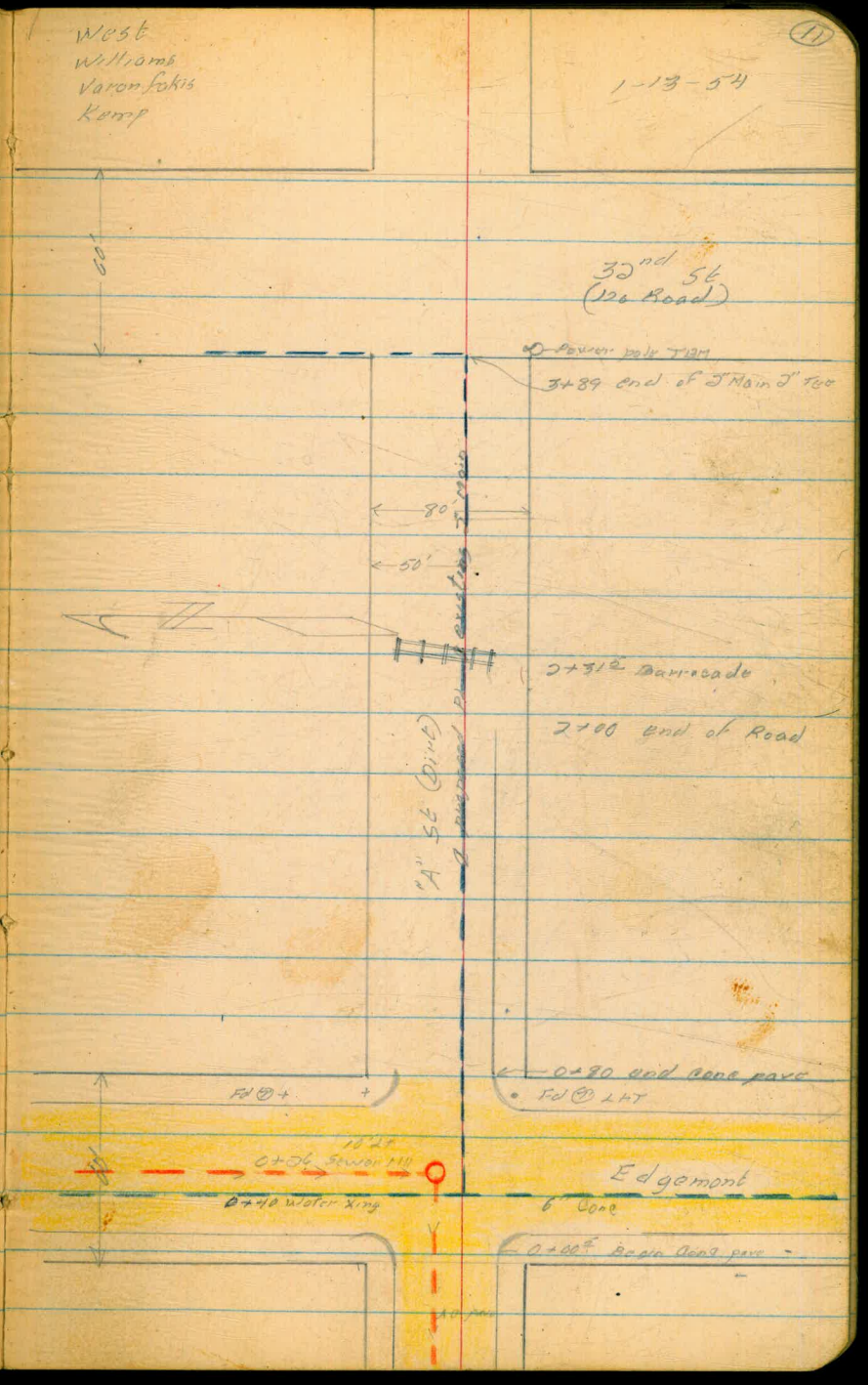
Flow Line 15" Storm Drain 10' Lt

Flow Line 18" " " 9° Lt

Top South edge Sewer MH

298.96

Mission
Valley



0+00 West Prop Line Edgemont

Profile "A" St.

Edgemont to 32nd

	7.21	242.28	235.07
	236	233.20	11.44 230.84
0+00		5.54	227.61
		227.90	224.10
+36		5.30	+38 to Flow line
+50		5.42	228.78
+80		5.26	227.94
1+00		5.2	228.00
+50		7.0	226.20
2+00		8.5	224.70
	0.17	220.42	12.95 220.25
+50		2.0	218.22
	0.19	207.55	13.06 207.36
3+00		5.1	202.45
	0.47	195.60	12.42 195.13
+50		7.7	187.90
	0.07	182.58	13.09 182.51
4+00		11.7	170.88
	0.21	169.92	12.87 169.71
+10		1.6	168.32

BM BP NW Cor 31st & A6b

West prop line edgemont

Top East rim Sanit MH 10' Rt

end demo pave

5.4 / 20' Lt — 2.2 / 20' Rt

7.0 / 20' Lt — 4.4 / 20 Rt

8.0 / 20' Lt — 2 / 6.4 / 20 Rt

12.6 / 20 Lt. — 12.4 / 20' Rt

	169.92		
4+46 89		146	155.32
440	173.40	0.92	169.00
1206	181.86	3.60	169.80
1238	194.16	0.08	181.78
1279	206.45	0.50	193.66
1183	218.18	0.10	206.35
1234	230.25	0.27	217.91
1235	241.35	1.25	229.00
375	240.33	4.77	236.58
		5.24	235.09

16.5 / 20 Ft

12.3 / 20' Ft

nail in power pole 25' Rt 4+00

= 235.07

Ash St

31st to Edgemont

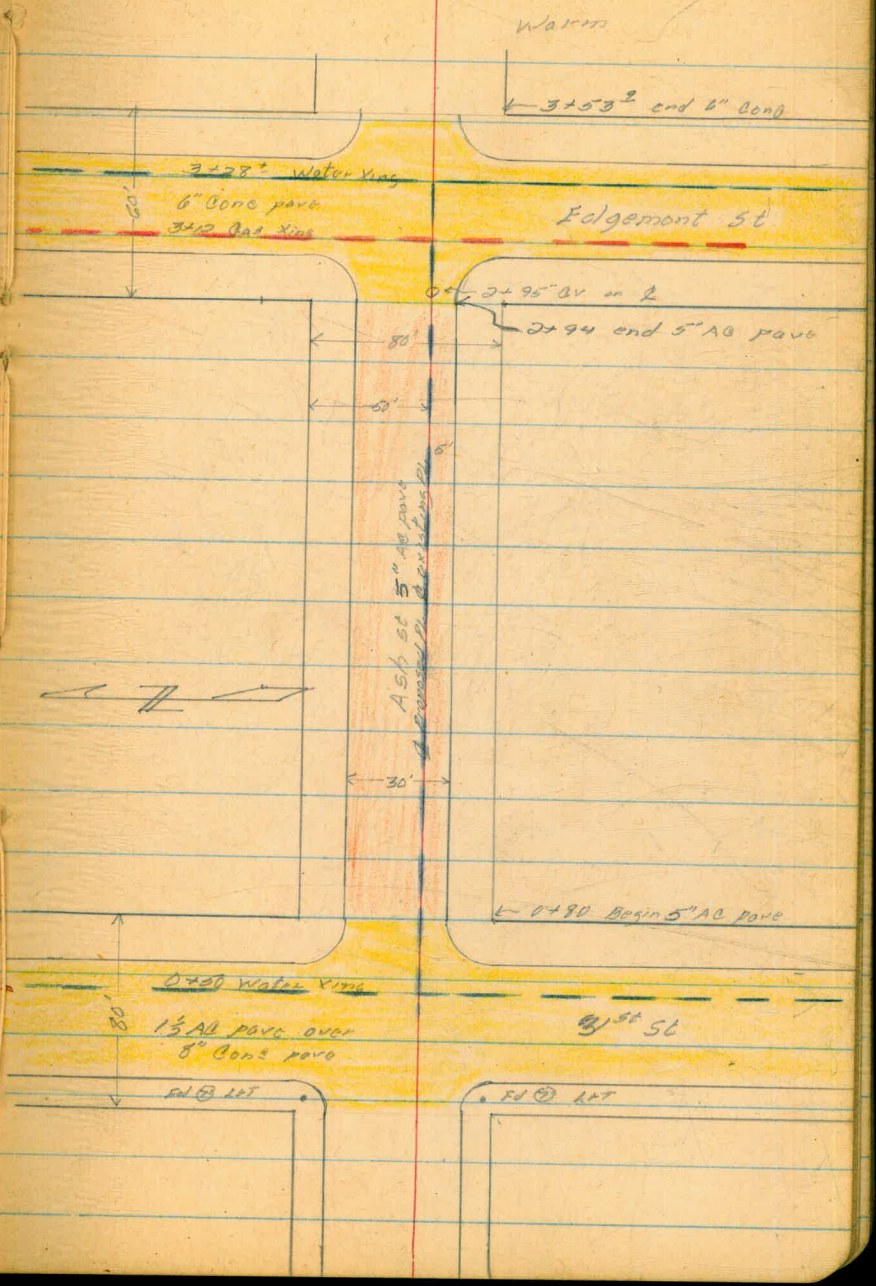
West
Williams
Varon Fakes

1-16-54
Warm

3+63.74 east prop line Edgemont

0+07 POT

0+00 West prop line 31st



Q Profile Ash St
31st to Edgemont

	6.66	341.71	2/2 335.07
0+00		7.06	2/2 334.65
+50		6.57	2/2 335.14
1+00		6.78	2/2 334.93
+50		6.43	2/2 335.28
2+00		5.93	2/2 335.78
+50		5.56	2/2 336.15
3+00		5.02	2/2 336.69
+50		5.76	2/2 335.95
+53.71		6.02	2/2 335.69

BM BP NW Cor. 31st & Ash

West Prop Line 31st

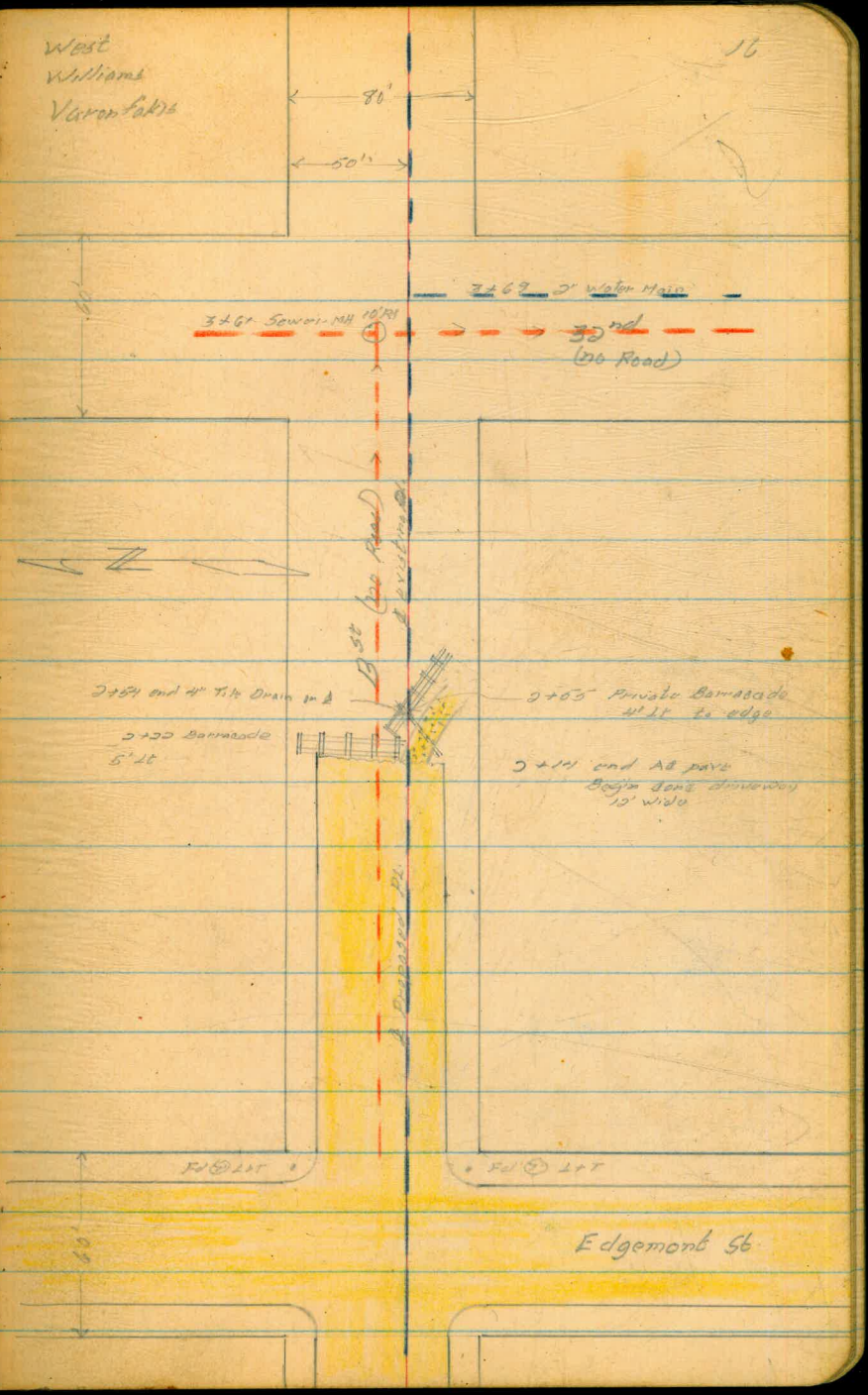
Edge Pave

"B" St Edgemont to 34th
Debin for 10" Main

4+30 POT

2+50 ∅ 0° 02' 45" Rt

0+00 east prop line edgemont St



RP's to B ST

℄ 2+50 ℄ R.P. = 90° (15') SOUTH
90° (32'±) NORTH

OFF BACK TAN 0+07 NAIL

℄ POT 4+30 R.P. = 90° (19') SOUTH
90° (40'±) SOUTH

OFF FORW TAN 10+08.07

℄ MON. 10+08.07 = 90° (20') SOUTH
90° (40'±) SOUTH
℄ PIPE 3' NORTH. MON.
OFF BACK TAN. ℄ NAIL 4+30

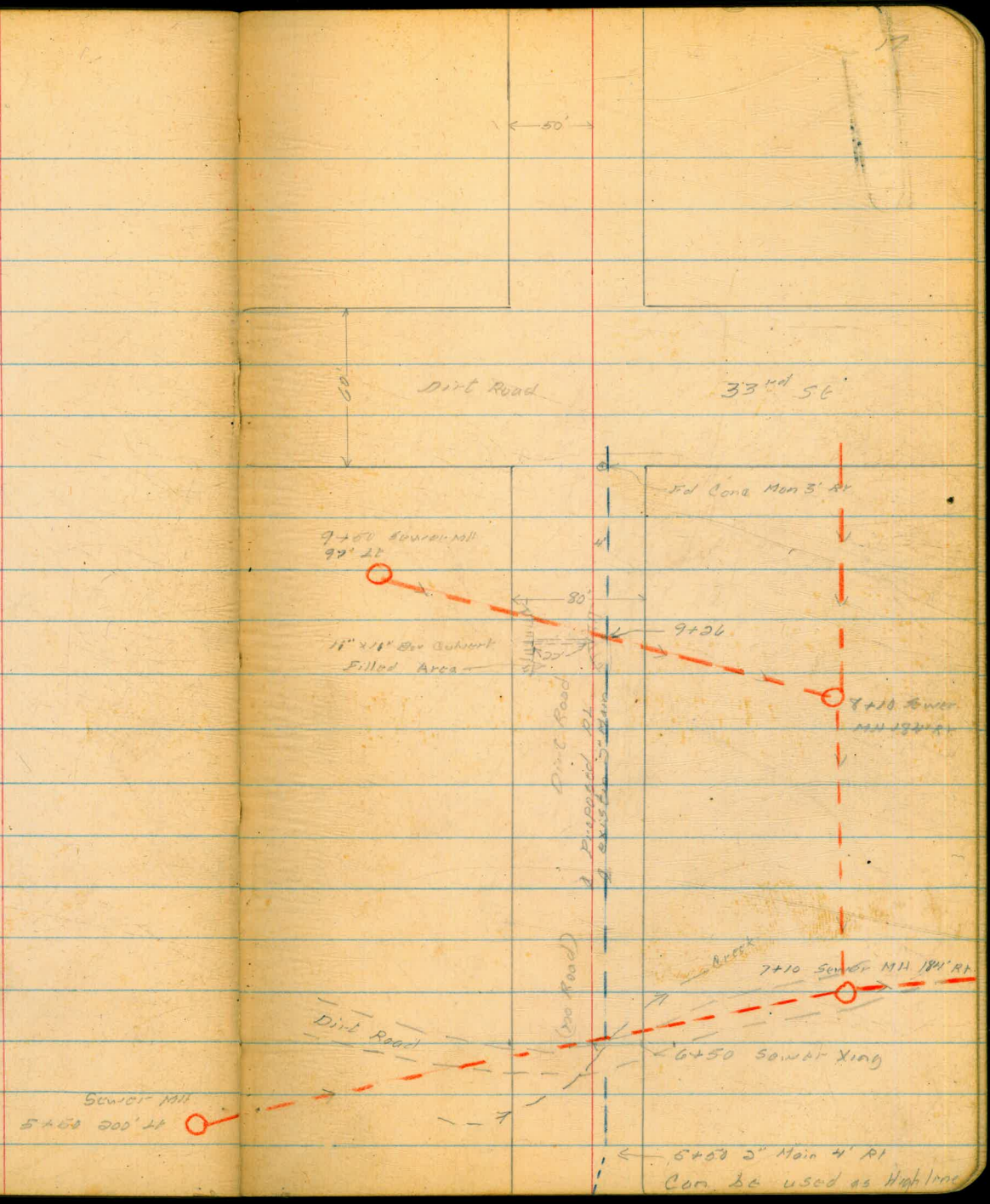
℄ 2X2 HUB 13+81.43 90° (20') SOUTH
℄ PIPE 3' NORTH 90° (40'±) SOUTH
OFF BACK TAN. MON. 10+08.07

B ST. ↑

BROADWAY
POT
℄ 4+50 = 90° (20') NORTH
90° (75'±) NORTH

OFF BACK POT

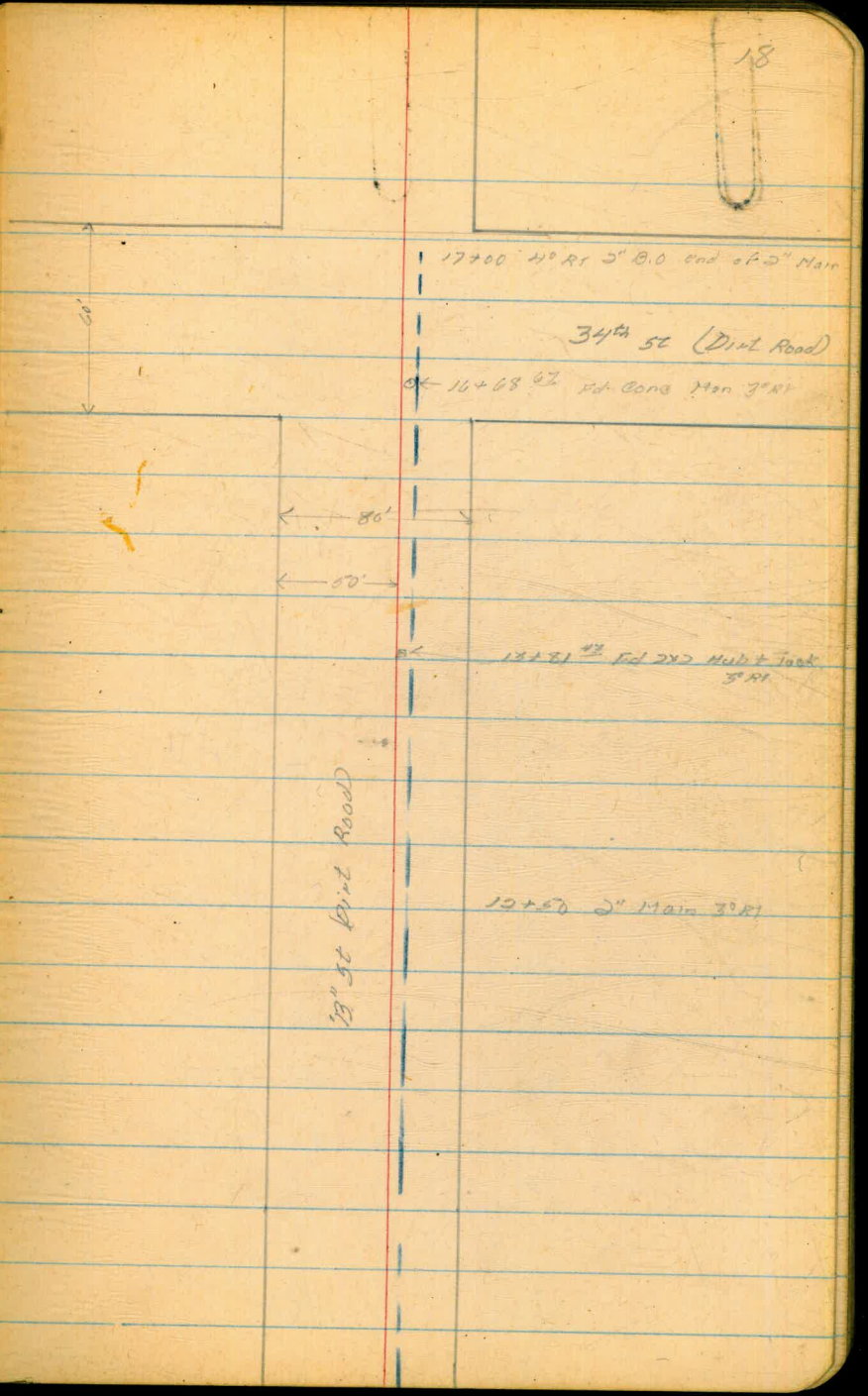
10+08 02 ROI Mon 3' Rt



17+11 67

16+68 67 POT

13+81 48 POT



"B" St ℄ Profile
Proposed P.I.

	0.49 228.39		227.90
	2.66 218.17	12.88	215.51
0+00		5.88	212.3
+50		5.58	212.6
1+00		6.13	212.0
+50		7.65	210.5
2+00		11.34	206.8
	0.21 205.66	12.72	205.45
+14		0.36	
2+29		1.04	
+50		3.8	201.9
+63		7.9	197.8
	0.02 192.88	12.80	192.86
3+00		8.1	184.8
	0.44 182.57	10.75	182.13
+50		1.4	181.2
+61		1.66	+ 9.7 to Flow
4+00		4.1	178.5

Turn on East rim Sewer MH ℄ A St Edgement

East prop Line edgement

0.31 / 25 Lt edge zone drive

0.79 / 9' Rt edge zone drive

1.76 / 10' Rt west edge zone drive

8.6 / 20 Lt

7.2 / 13 Lt

3.85 / 0 Rt east edge zone drive

4.42 / 10.3 Rt west " " "

9.4 / 20' Lt

6.1 / 9' Rt edge Barricade

4.8 / 24 Lt

7.8 / 8 Lt

7.8 / 20' Rt

Spike Turn on power pole S.W. cor 32nd & B St

1.3 / 25 Lt

2.2 / 25 Rt

Top South rim sewer MH 10' Lt

7.0 / 20' Lt

4.7 / 25' Rt

		182.57		
4+20			6.4	176.2
+30			11.1	171.5
	0.95	170.69	12.83	169.74
4+50			9.4	161.3
	0.28	158.52	12.46	158.24
	0.09	145.78	12.83	145.69
5+00			4.3	141.5
T.P.	0.45	133.20	13.03	132.75
5+50			5.1	128.1
T.P. 5+50	0.70	123.01	10.89	122.31
T.P.	3.04	120.57	5.48	117.53
6+00			0.8	119.8
+50			8.7	111.9
+73			10.8	109.8
7+00			6.8	113.8
+10			12.62	+5.5 to Flow
+12			2.9	117.7
	12.47	132.65	0.59	119.98
+27			8.7	124.0

12.2 / 16' Lt — 6.6 / 6' Lt — 7.4 / 25' Rt

13.1 / 11' Lt — 11.8 / 7' Lt — 7.9 / 7' Rt

Filled Area

14.5 / 25' Lt — 7.4 / 15' Rt — 4.0 / 25' Rt

5.2 / 25' — 4.5 / 20' Rt

5.6 / 20' Lt. — 5.4 / 15' Rt

200' Lt

M.H. EAST RIM +5.5 to Flow Line

1.3 / 20' Lt — 1.0 / 20' Rt

8.6 / 20' Lt — 9.5 / 13' Lt — 7.9 / 20' Rt

Bott of Creek

Bottom of Creek

5.6 / 20' Lt — 7.4 / 15' Rt — 12.8 Bott of Creek / 45' Rt

Top North Rim Sewer MH 184' Rt

Bottom of Small Local Fill

6.0 / 25' Lt — 11.0 / 8' Rt — 12.4 / 20' Rt

Top of Fill

	132.65		
7+50		6.1	126.6
8+00		2.2	130.5
	3.42	134.61	1.46	131.19
8+50		2.3	132.3
9+00		9.1	125.5
9+04		9.1	125.5
+50		3.78	+7.7 To Flow
	0.64	122.18	13.07	121.54
18+10			12.99	+4.6 To Flow line
	12.89	134.83	0.24	121.94
9+30			7.6	129.2
+50			3.6	131.2
	13.24	146.79	0.28	134.55
10+00			8.9	138.0
+50			1.9	145.0
	12.29	159.04	0.04	146.75
11+00			8.9	150.1

2

2.4 / 50' Lt — 8.8 / 20' Rt

0.2 / 40 Lt — 1.3 / 5' Rt — 2.2 / 30 Rt

2.5 / 40' Lt — 4.6 / 4' Lt — 3.7 / 16 Rt — 5.3 / 24 Rt

2.9 / 40 Lt — 4.6 / 8' Lt — 13.3 / 6 Rt — 14.6 / 16 Rt

in Ponded Area

Flow line 16"x 16" wood box culvert 1' Lt

Top South rim sewer MH 97' Lt

Top North rim sewer MH 184' Rt

4.0 / 12 Rt — 3.8 / 7 Lt — 8.6 / 15' Rt

4.2 / 40' Lt — 2.3 / 30 — 2.5 / 9' Lt — 3.9 / 20' Rt

9.9 / 40' Lt — 9.5 / 20 Rt

3.4 / 40' Lt — 2.1 / 20' Rt

9.7 / 40 Lt — 9.6 / 6' Lt — 8.9 / 5 Lt — 8.9 / 20' Rt

B St Cont

	109.04		
11+50		4.6	154.4
12+00		0.6	158.4
	12+42 171.36	0.10	158.94
+50		6.4	165.0
	1246 183.63	0.19	171.17
13+00		10.5	173.1
+50		6.6	177.0
14+00		3.8	179.8
+50		2.3	181.3
	572 188.53	0.82	182.81
15+00		7.2	181.3
+50		6.8	181.7
16+00		5.2	183.3
+50		8.3	180.2
17+00		10.5	173.0
+17 67		17.5	171.0
16+68 67	1418 178.31	11.70	176.83
	0.63 165.74	13.10	165.21
	0.22 153.05	12.91	152.83
	1.70 141.99	12.88	140.17
		3.73	138.16 =

West 1-18-54

22

		℄
	4.7 / 40' Lt	4.9 / 20' Rt
	0.0 / 40' Lt	1.6 / 20 Rt
	5.1 / 40 Lt	5.9 / 20 Rt
	9.3 / 40 Lt	11.0 / 20 Rt
	4.5 / 40' Lt	7.7 / 20 Rt
	1.5 / 40 Lt	4.8 / 20' Rt
+ 0.3 / 40 Lt		3.6 / 20 Rt
	5.0 / 40 Lt	8.4 / 20 Rt
	4.0 / 40 Lt	7.6 / 20 Rt
	3.4 / 40' Lt	6.3 / 20 Rt
5.7 / 40 Lt	6.0 / 33' Lt 7.0 / 31' Lt	9.1 / 20' Rt
	1.36 / 40 Lt	17.4 / 20' Rt

East prop. line 34th St

Twin on Pond Mon

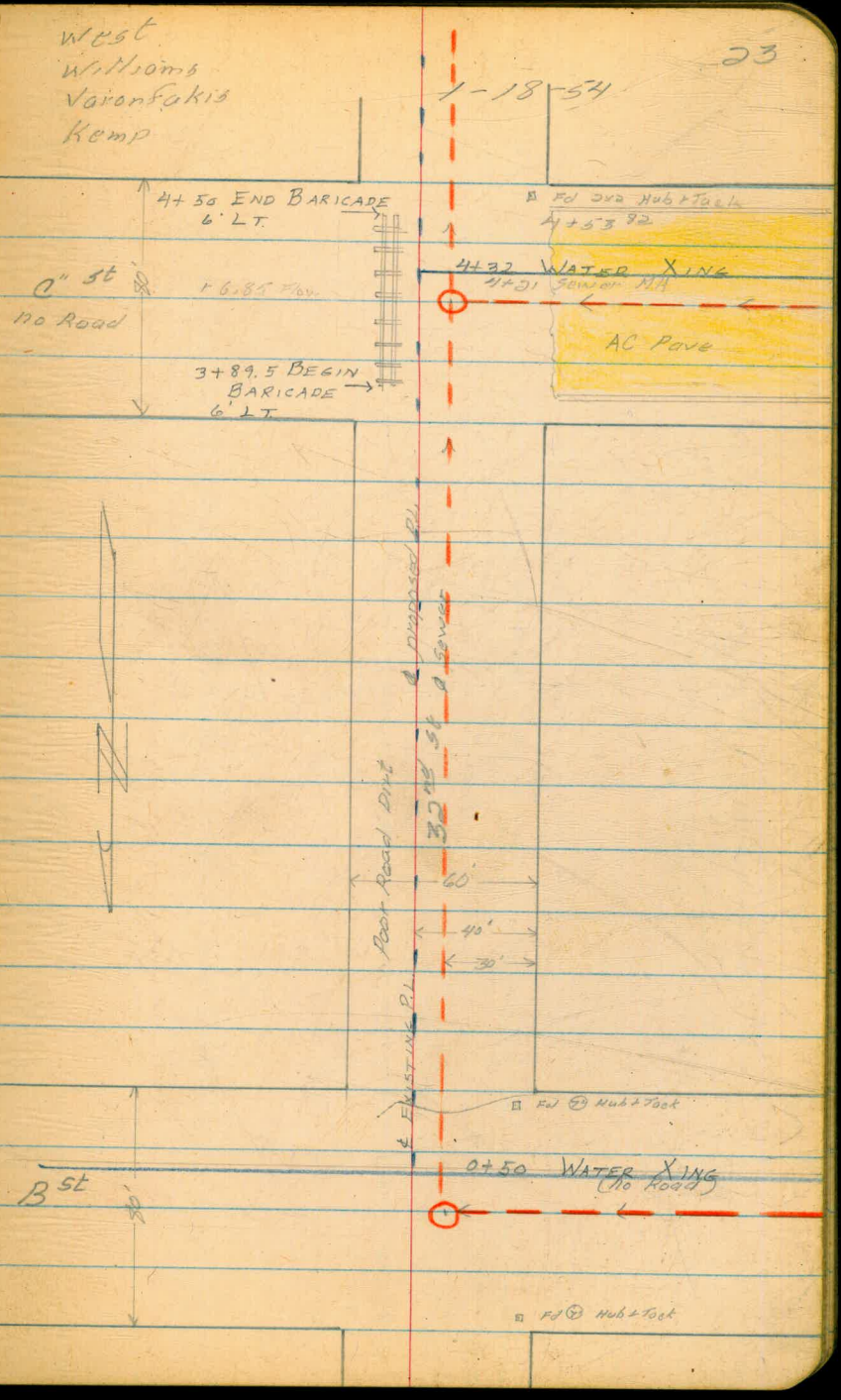
137.88 NE plug Mon 34th + A St

32nd St "B" St to Broadway

West
Williams
Varonfakis
Kemp

1-18-54

4+53.72 POT



0+50 32nd St = 3+70.20 B St

0+07 POT

0+00 North Prop Line B St

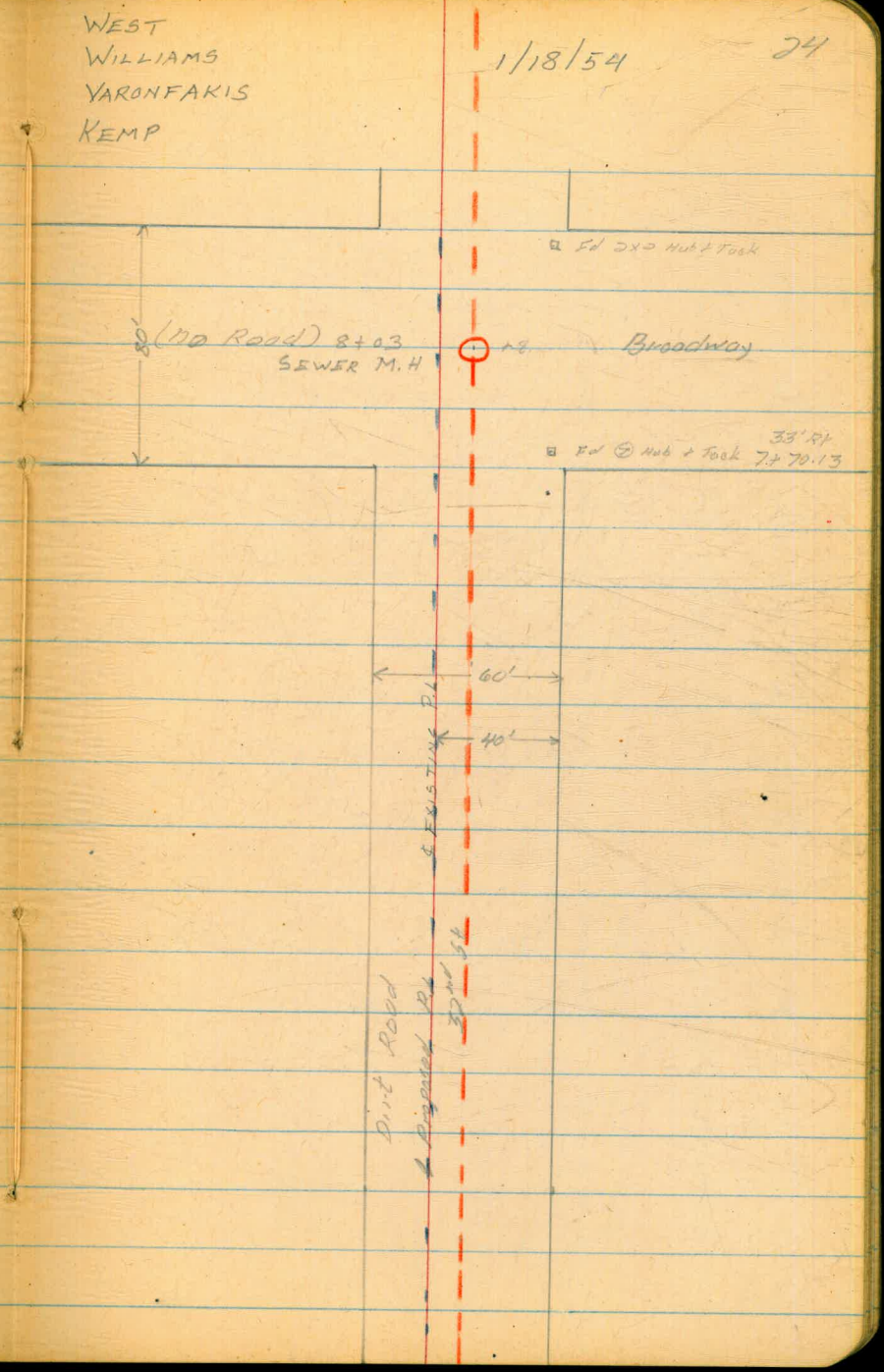
WEST
WILLIAMS
YARONFAKIS
KEMP

1/18/54

24

8+43 13 South prop. Line Broadway

8+08.08 32ND ST = 6+80.47 Bowy.



32 ND ST "B" ST TO BROADWAY
& PROFILE

STA	+	HI	-	EL.
B.M.	2.84	184.97		182.13
0+00			4.6	180.4
+50			4.8	180.2
1+00			5.1	179.9
+50			9.5	175.5
+61			9.9	175.1
2+00			15.5	169.5
+10			18.0	167.0
+50			13.7	171.3
3+00			13.5	171.5
+50			12.5	172.5
4+00			11.6	173.4
T.P.	0.55	174.41	11.11	173.86
4+21			0.56	
+50			0.9	173.5
5+00			2.7	171.7
+50			5.2	169.2
6+00			8.3	166.1
+50			11.4	163.0

WEST
WILLIAMS T
VARONFAKIS
KEMP ℄

1/22/54

25

SPIKE P.P. S.W. COR. 32 ND B ST.

7.3
10' LT.

7.2
10' LT.

6.1
7' LT.

17.4
10' LT.

13.9
10' RT.

10.6
10' RT.

12.0
3' RT.

SEWER M.H. 7.41 TO FLOW LINE

8.3
8' RT.

6.6
10' RT.

32ND ST "B" ST TO BROADWAY (CONT.)

STA	+	174.41	−	EL.	
T.P.	0.24	161.80	12.85	161.56	
7+00			2.0		159.0
+50			5.6		156.2
					152.5
8+00			9.3		~~162.5~~
+43.13			12.7		149.10
8+03					
T.B.M.	12.78	169.43	5.15	156.65	
T.P.	9.54	178.85	0.12	169.31	
T.P.	7.09	184.74	1.20	177.65	
CHECK TO T.B.M.			2.56	182.18 =	182.13

WEST
WILLIAMS &
VARONFAKIS
KEMP ℄

11/22/54

26

1.9 7' RT 0.0 10' RT
5.7 8' RT 4.4 10' RT
9.6 7' RT 7.9 10' RT

S. PROP. LINE BOWY.

E. RIM SEWER M.H. 9' RT. 13.35 TO FLOW LINE

Proposed P.L Broadway
33rd to 32nd

7+20.50 West Prop Line 32nd

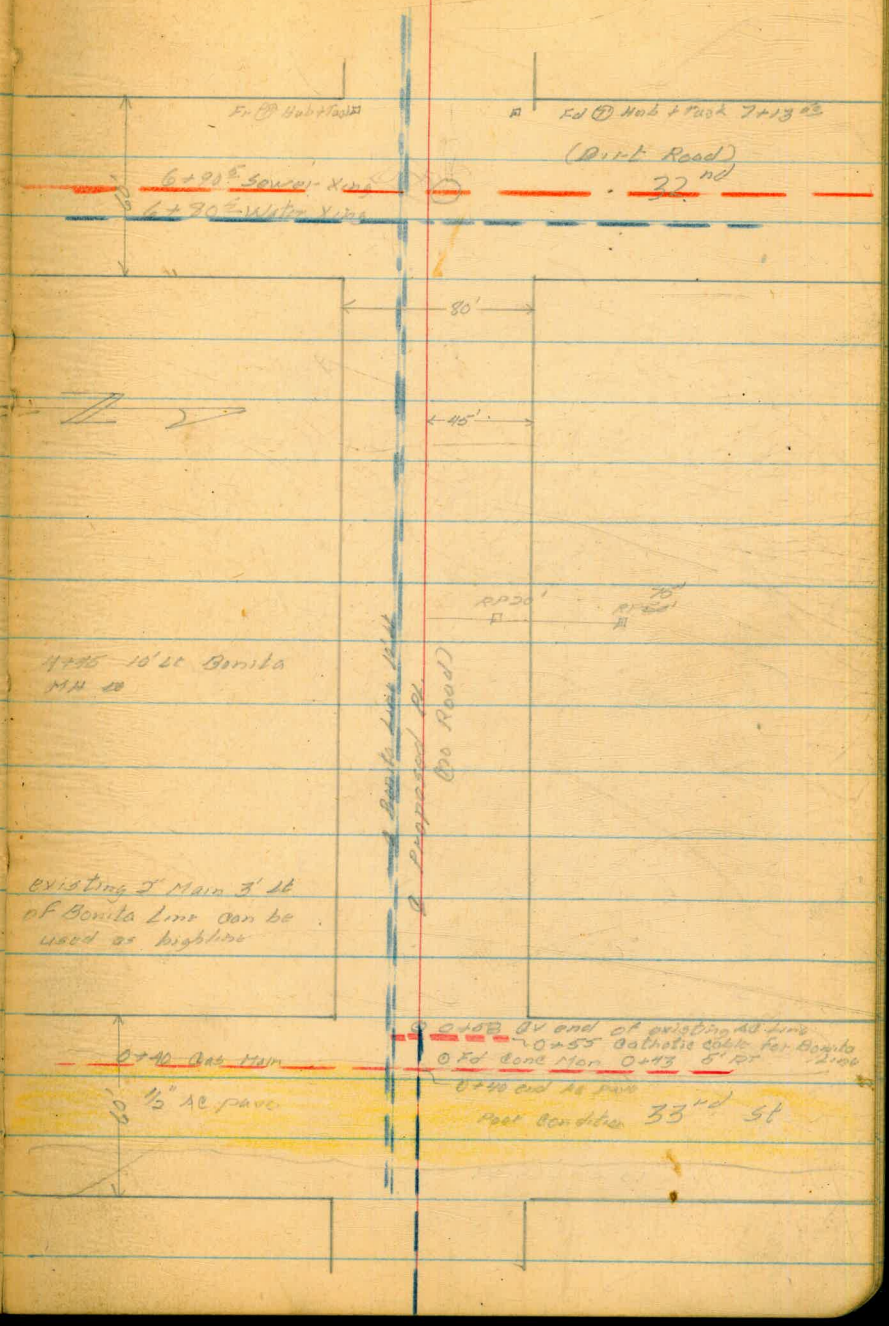
4+50 POT

3+08.86 POT

0+00 Tan = 7+97.14 33rd St

0+43 POT

0+00 East prop Line 33rd



Profile Broadway 33rd to 32nd

	128	107.83	106.55
0+00		0.6	106.23
+50		1.8	106.03
+64		1.7	106.13
1+00		10.9	96.93
+15		13.9	93.93
	7.06	101.83 13.06	94.77
+50		8.9	92.93
2+00	0	8.5	93.33
	12.43	113.86 0.70	101.43
+50		12.1	101.76
+74		3.6	110.26
	11.98	125.70 0.14	113.72
3+00		11.5	114.20
+50		4.5	121.20
	10.85	136.27 028	125 42
4+00		10.0	126.27
+50		7.2	129.07
5+00		6.0	130.27

West
Williams
Varonfakis
Kemp

1-22-54

38

NW QP Mon 33rd & Broadway

97.43	97.93
10.4 / 10 Lt	9.9 / 10 Rt
9.2 / 10 Lt	8.6 / 10 Rt
8.3 / 10 Lt	9.4 / 10 Rt
13.7 / 10 Lt	11.1 / 10 Rt
5.3 / 10 Lt	2.8 / 10 Rt
12.0 / 10 Lt	10.7 / 10 Rt
5.6 / 10 Lt	3.9 / 10 Rt
11.1 / 10 Lt	8.5 / 10 Rt
9.0 / 10 Lt	4.4 / 10 Rt
8.3 / 10 Lt	4.3 / 10 Rt

	136.27		125.42
5+50		10.8	125.47
6+00		1.9	134.37
12.71	148.67	0.31	135.96
+50		0.9	147.77
12.59	160.56	0.70	147.97
+60		10.6	149.96
+64		8.1	152.46
+88		9.0	151.56
+92		6.2	154.36
7+00		3.4	157.16
+20.50		+0.2	160.76
		4.06	156.50

11.8 / 10 Lt — 10.0 / 10 Rt

23 / 10 Lt — 7.2 / 5 Lt — 1.6 / 10 Rt

21 / 10' Lt — +0.5 / 10 Rt

Bottom of Road berm

Top 9.0 / 10 Lt — " 7.3 / 10 Rt

South edge road

4.6 / 10' Lt — 2.9 / 10 Rt

= 156.65 From page 36

Turn on sewer MH @ Broadway +32 Rt

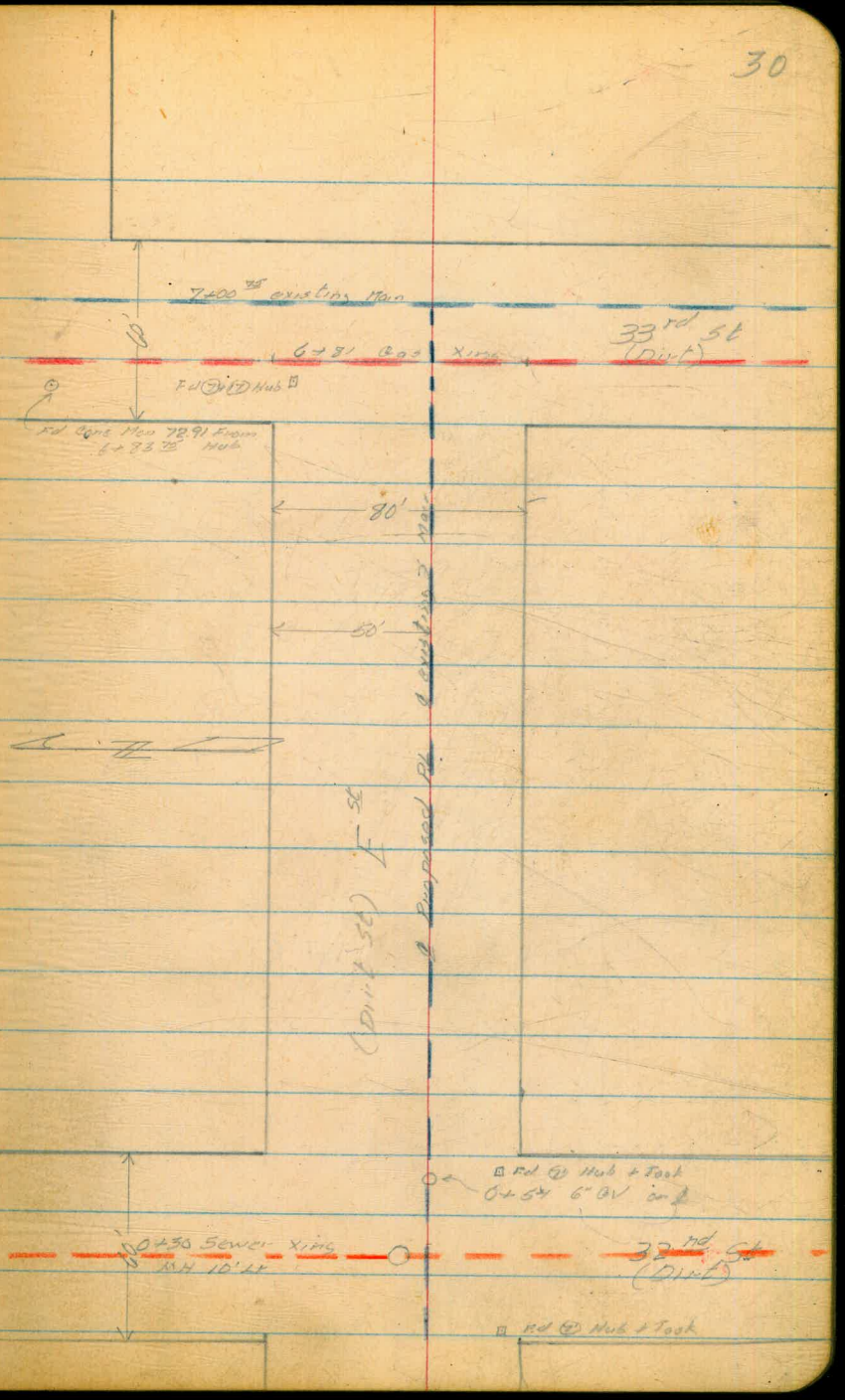
7+20.75 East prop line 33rd

7+00.75 = 11+11.25 33rd St
Tan (20) East prop line 33rd

3+50 P.O.T

+07 P.O.T

0+00 West prop line 32nd



℄ Profile E St 32nd to 33rd			5.0
	2.77	109.32	106.55
	2.57	100.08 11.81	97.51
	11.20	110.90 0.38	99.70
0+00		1.2	109.70
+25		1.5	109.40
+30		3.6	107.80 58.80 To Flow
+33		4.1	106.50
+50		7.0	103.90
1+00		13.0	97.90
	0.92	98.91 12.91	97.99
+50		5.6	93.31
2+00		7.6	91.31
+50		8.7	90.21
3+00		9.6	89.31
	5.33	91.90 12.34	86.57
+50		6.2	85.70
+78		6.8	85.10
4+00		10.7	81.20
+50		10.8	81.10
+86		11.5	80.40
5+00		5.9	86.00

West
Varonfakis
Kemp

Cold + wet

1-25-54

NW. Plug Mon 33rd Broadway

0.5 / 10 Lt	1.4 / 10 Rt
0.6 / 10 Lt	1.9 / 10 Rt
Top Rim Sewer-	MH 10' Lt
6.1 / 10 Lt	7.7 / 10 Rt
8.9 / 10 Lt	10.7 / 10 Rt
6.3 / 10 Lt	7.6 / 10 Rt
begin creek	bottom
end creek	bottom
6.3 / 10 Lt	6.3 / 10 Rt

		91.90		
	6.69	97.23	1.36	90.54
5+25			4.15	93.08
+50			2.6	94.63
6+00			3.8	93.43
+50			5.3	91.93
7+00 [75]	TOO		5.5	91.73
+20 [25]			5.7	91.53
	10.76	107.58	0.41	96.82
			1.00	106.58

$\frac{3.8}{10 Lt}$ $\frac{4.5}{10 Rt}$

East Prop Line 33rd

= 106.55

33rd st .. F st to Broadway

POT

4+11.15 Jpv = 7+00.75 E st

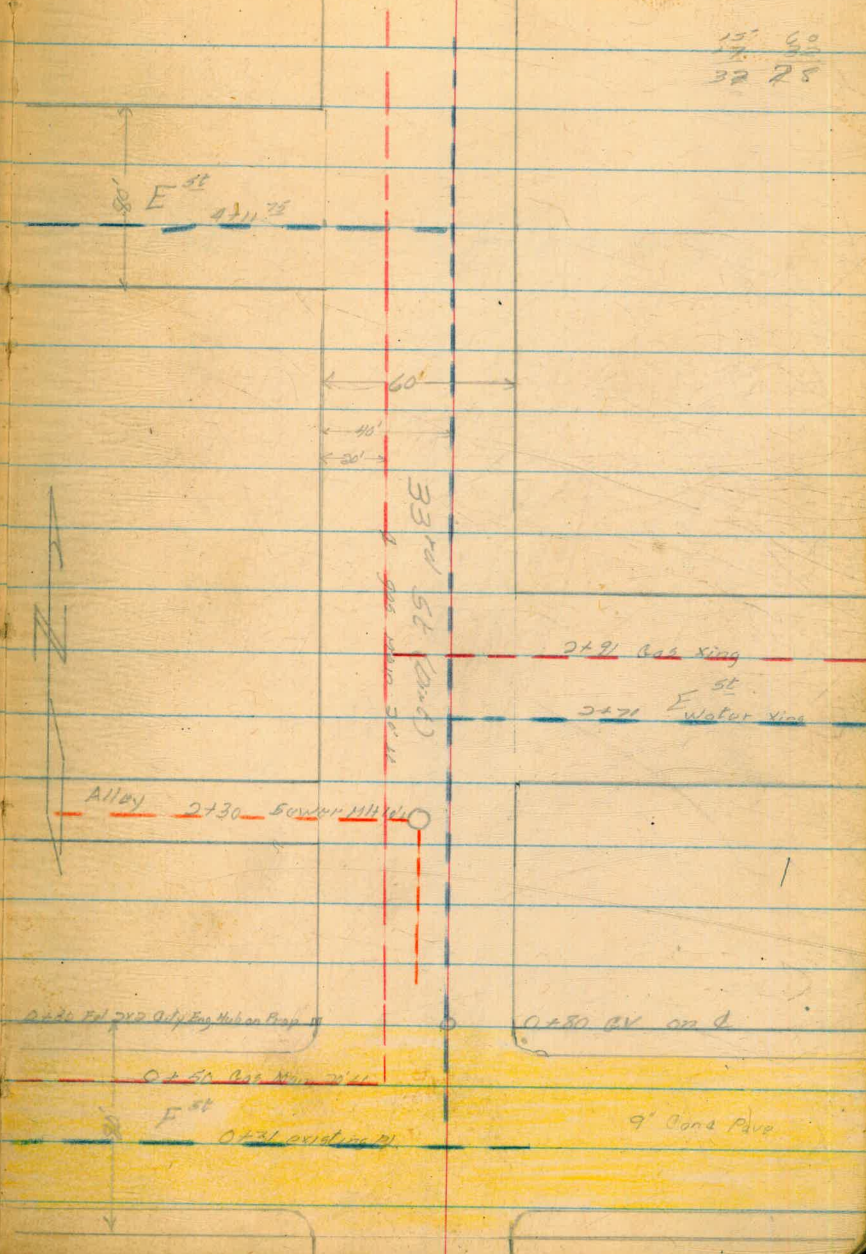
0+79± POT

0+00 South prop Line F st

West
Varenfalkn.
Kemp

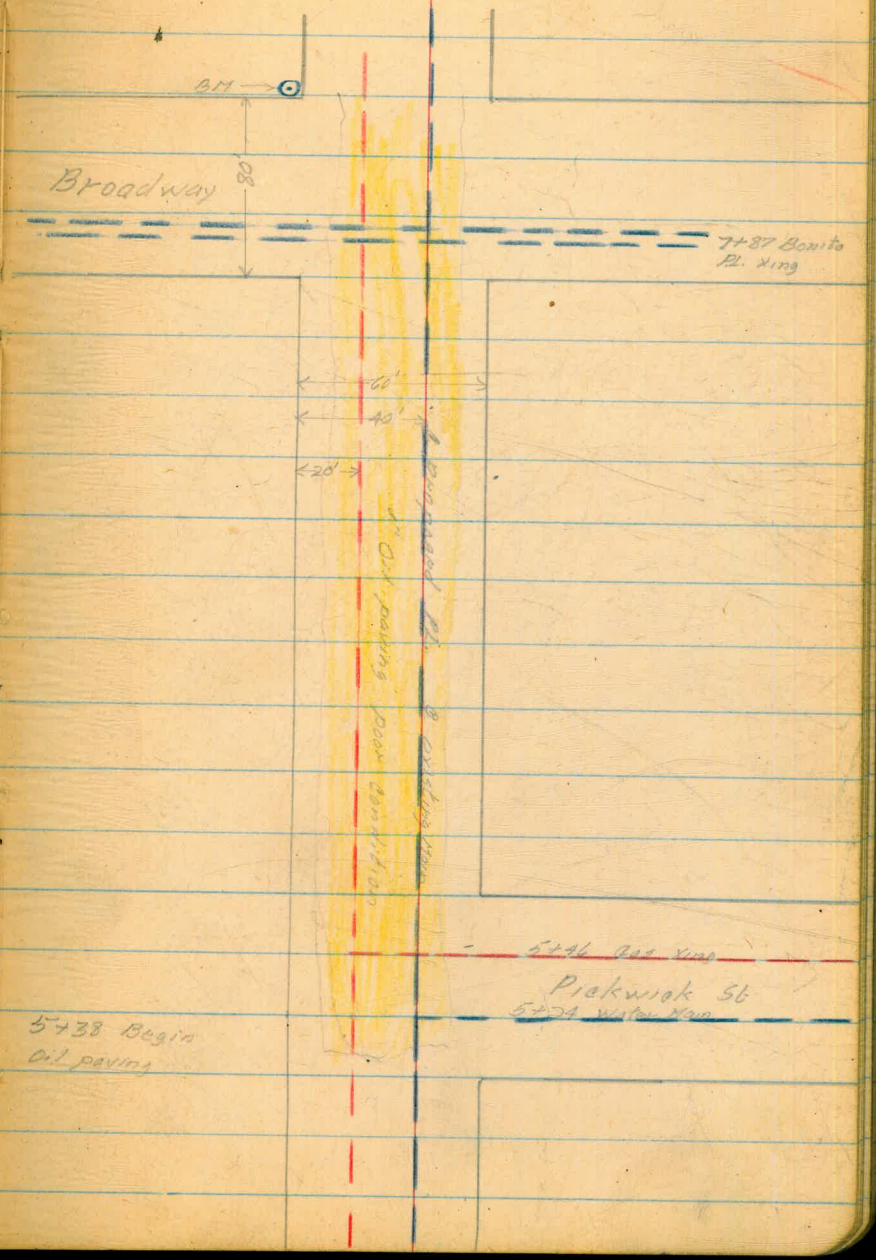
1-26-54

15 60
17
32 78



8+42.22 North prop line Broadway

7+97.14 POT Tie = 0+20 Broadway



℄ Profile 33rd St
E 1st to Broadway

West
Varonfakis
Kemp

	0.35	106.90	106.55
	3.33	96.20 13.03	93.87
0+00		11.6	84.6
+00½		11.50	84.7
+50		10.30	85.9
+79½		9.8	86.4
1+00		8.7	87.5
+50		7.0	89.2
2+00		6.4	89.8
+30		5.77	90.4 + 6.2 to Flow
+50		5.4	90.8
3+00		4.9	91.3
+50		5.0	91.2
4+00		4.54	91.8 ?
+11½ Tee		4.47	91.8 ?
+50		4.1	92.1
5+00		3.2	93.0
+38		2.5	93.7
+50		1.7	94.5
	11.75	10.49 0.46	95.74

BM NW Plug Mon 33rd + Broadway

South edge Cina paving

North edge paving

Top cast iron sewer MH. 10' Lt

Begin oil Paving poor condition

	107.99		
6+00		9.8	97.7
+50		5.7	101.8
7+00		4.1	103.4
+50		2.3	105.2
+97.13 Tee.		1.4	106.1
8+00		1.35	106.1
+12		0.60	106.9
		0.90	106.59 =

North prop line Broadway

106.55

34th St B St to Broadway

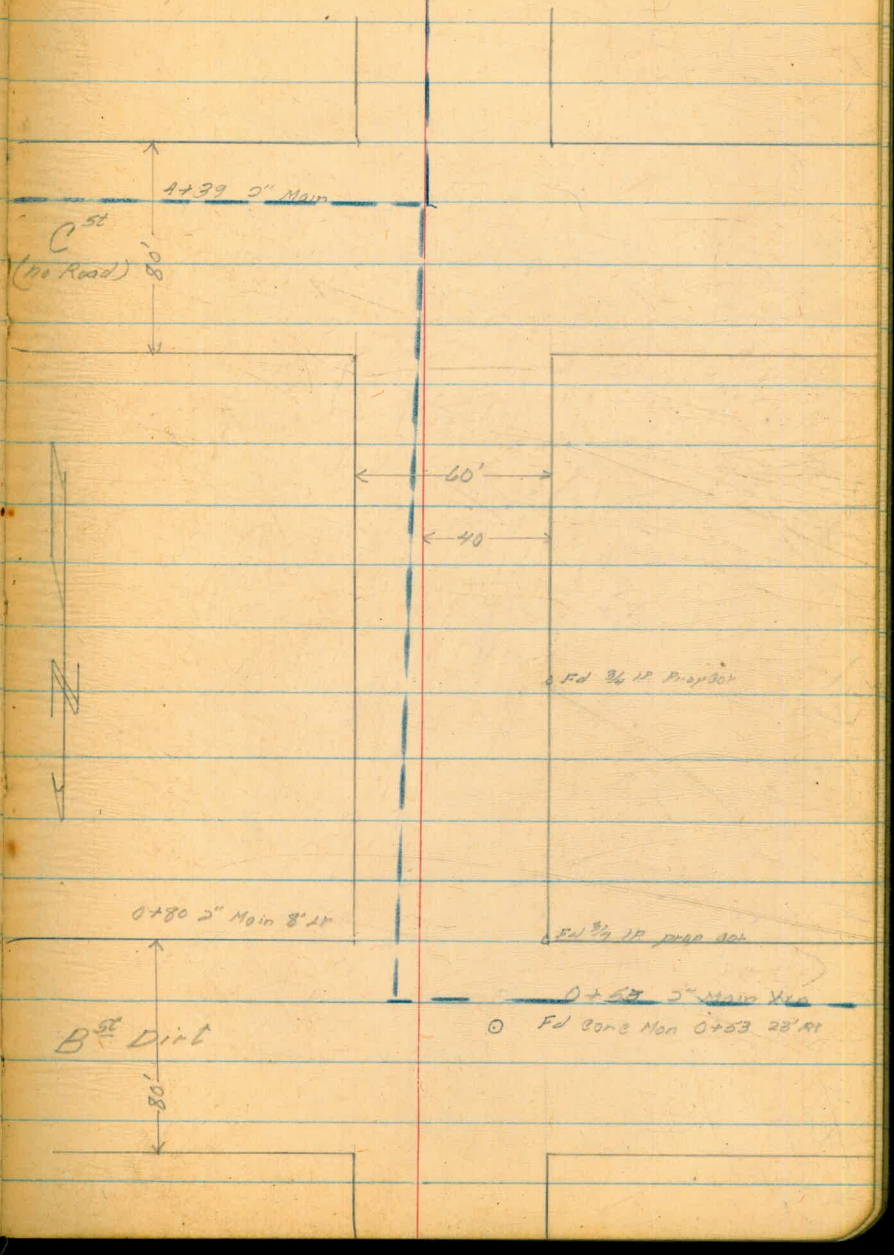
Note 3' should be taken from All Stations

0+53 P.O.T.

0+00 North prop line B St

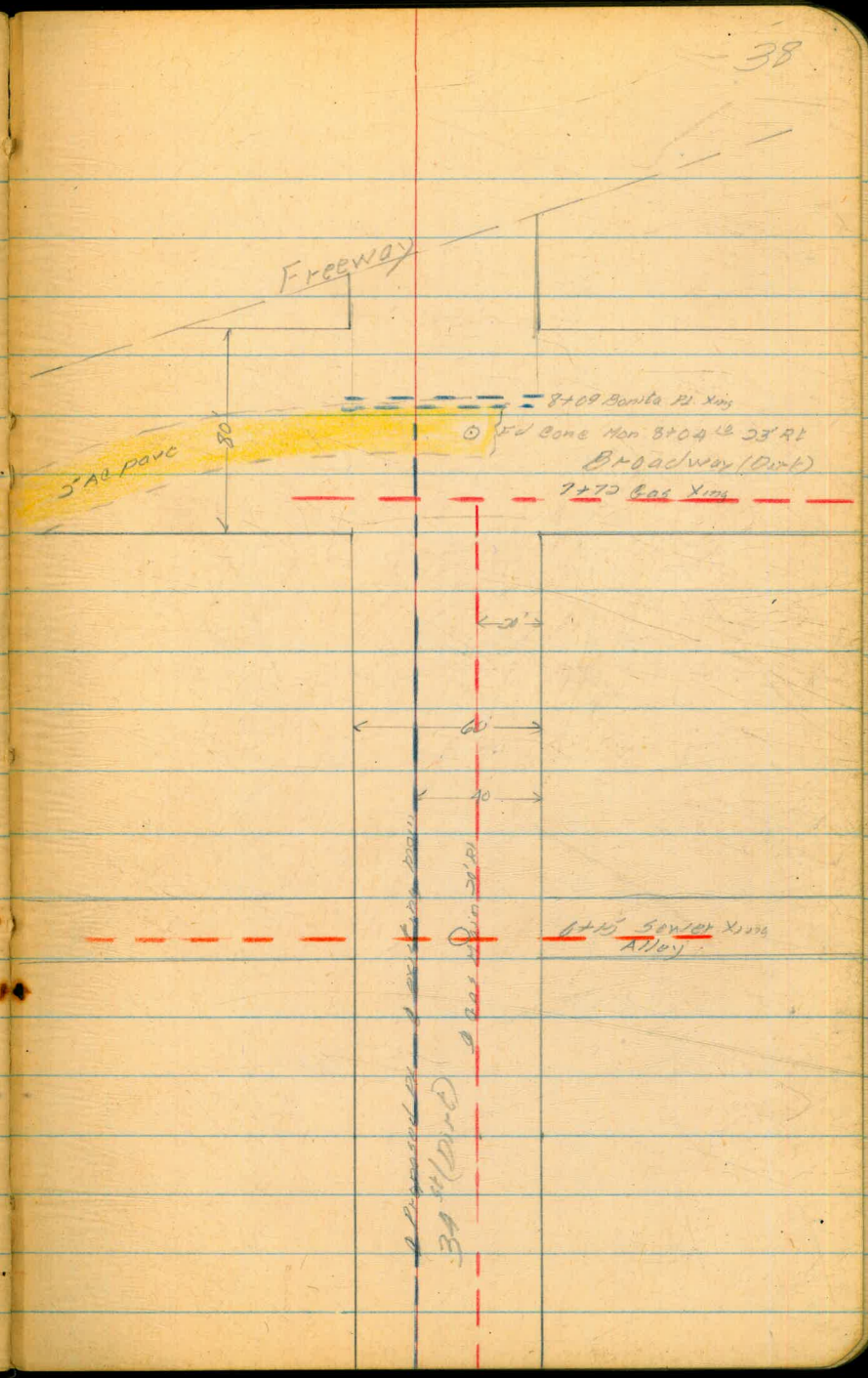
West
Williams
Varonfakos
Kemp

1-26-54



8+~~04~~ 12 South prop line Broadway

8+04 12 POT



1-27-54

℄ Profile 34th St
B St to Broadway

All Stations
Note 3' Should be Taken from

	134	177.89	176.55
0+00		0.0	177.9
+50		2.3	175.6
1+00		7.2	170.7
+50		12.7	165.2
	0.39	165.33	12.95	164.94
2+00		6.2	159.1
	0.21	153.33	12.21	153.12
+50		1.7	151.6
3+00		7.6	145.7
+50		13.0	140.3
	0.49	141.22	12.60	140.73
4+00		7.5	133.7
	0.29	128.96	12.55	128.67
+50		1.9	127.1
5+00		10.3	118.7
	0.15	116.39	13.02	115.94
+50		3.2	113.2
6+00		7.1	109.3

℄

Turn on Cond Mon B St

	2.8 / 16 Lt	+1.0 / 10 Rt
6.4 / 20 Lt	5.8 / 15 Lt	0.9 / 10 Rt
	11.7 / 20 Lt	5.3 / 10 Rt
	16.0 / 20 Lt	10.7 / 10 Rt
10.5 / 20' Lt	8.5 / 14 Lt	4.8 / 10 Rt
1.9 / 17 Lt	2.8 / 3' Lt	0.0 / 10 Rt
	6.8 / 15 Lt	8.3 / 6 Rt 7.0 / 10 Rt
	12.5 / 15 Lt	13.3 / 10 Rt
	6.1 / 20' Lt	9.7 / 11 Rt 8.7 / 15 Rt
	1.1 / 20' Lt	3.4 / 6 Rt 3.7 / 15 Rt

		116.39		
6+15			7.70	+4.8 to Flow
+50			10.9	105.5
	0.08	103.67	12.80	103.59
7+00			1.8	101.9
+50			4.3	99.4
+84			5.9	97.8
+87			7.8	95.9
8+00			7.8	95.9
+05			7.9	95.8
+44.10			10.5	
	9.50	108.65	4.52	99.15
			2.21	106.44 =

Top East min sewer MH 10' Rt

edge AC pave

South edge AC pave

South prop Line Broadway

106.55 N.W. Plug Man 33rd & Broadway

℄ Proposed ℄
Pickwick St. 34th to 35th

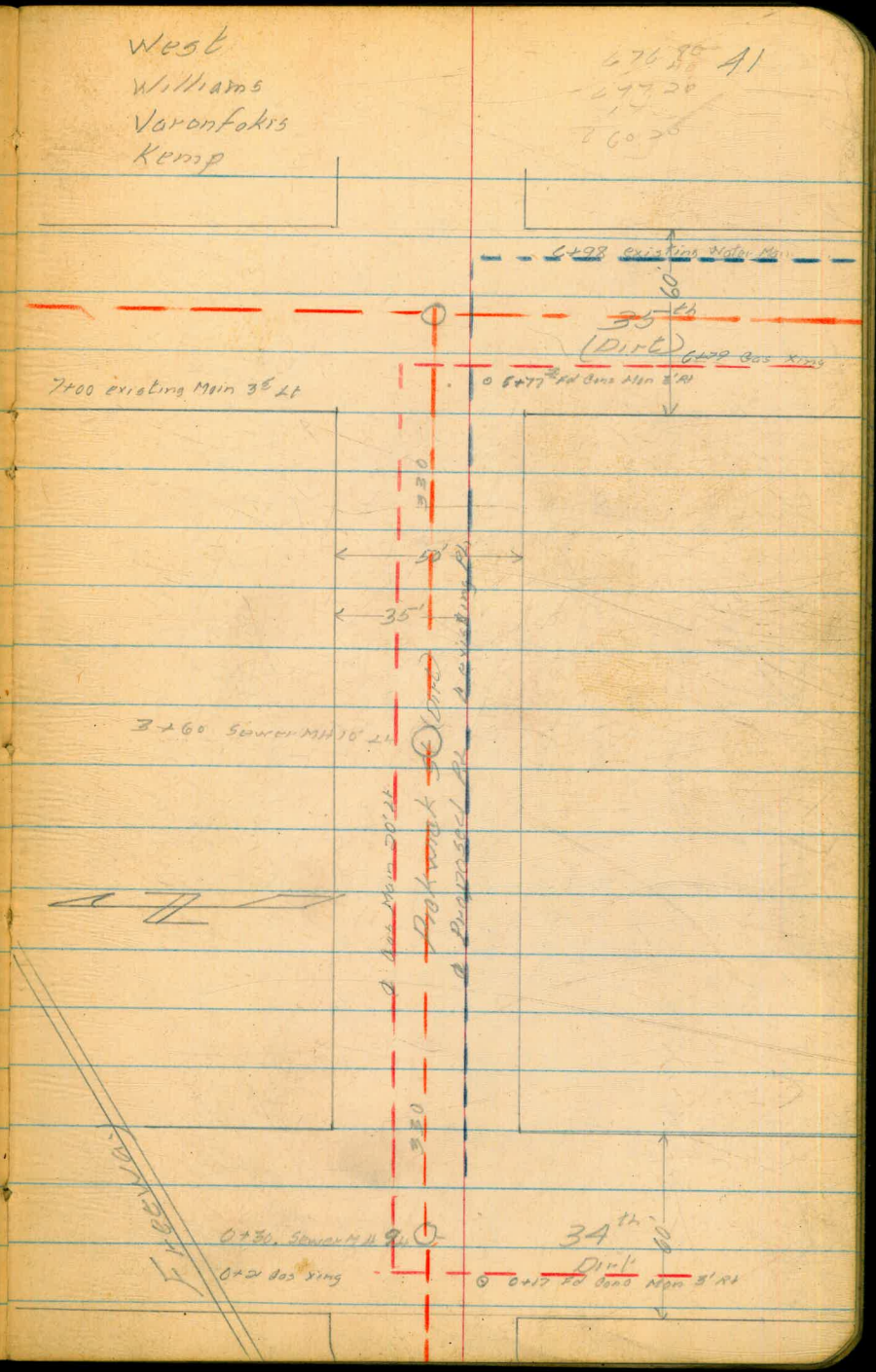
7+20 20 East Prop Line 35th

6+76 99 POT

0+17 POT

0+00 West prop line 34th St

West
Williams
Voran Fokis
Kemp



℄ Profile Proposed RL
Berwick 34th to 35th

1-27-54

016	99.41		99.25	NE mon 34th + Broadway
0.57	87.17	12.81	86.60	
0+00		9.3	77.9	
+30		9.28	71.29 6.6 To Flow Line	Top South rim sewer MH 9'Lt
+50		10.8	77.89 76.37	
0.46	75.22	12.41	74.76	
1+00		1.6	73.62	1.5 / 5 Rt
+50		3.8	71.42	3.6 / 6 Rt
2+00		5.6	69.62	5.2 / 3 Rt
+50		6.8	68.42	6.6 / 8 Rt
3+00		7.8	67.42	
+50		8.6	66.62 67.04	
+60		8.18	+ 5.7 Flow Line	Top South rim sewer MH 10' Lt
4+00		9.5	65.72	
+50		10.4	64.82	
0.70	64.52	11.40	63.82	
5+00		12	63.32	
+50		2.3	62.22	2.0 / 4' Rt; 3.2 / 9' Rt; 2.1 / 13 Rt
6+00		5.3	59.22	4.6 / 5 Rt; 5.4 / 8' R; 5.0 / 11 Rt
+50		10.2	54.32?	10.0 / 8 Rt; 9.0 / 15 Rt
+94		11.70	+6.3 To Top of 54" RC Sewer 52.8, 46.5	Top Rim Sewer MH 6° Lt

	64.52		
7+00		11.2	53.32
1+20 20		11.1	53.42
11.71	64.52	11.70	52.82
10.78	74.76	0.65	63.98
11.52	85.79	0.49	74.27
12.48	98.01	0.26	85.53
6.92	101.35	3.58	94.43
		2.08	99.27 = 99.25

East prop line 35th St

Turn on rim

Wurts
Halahan
Varonstakis

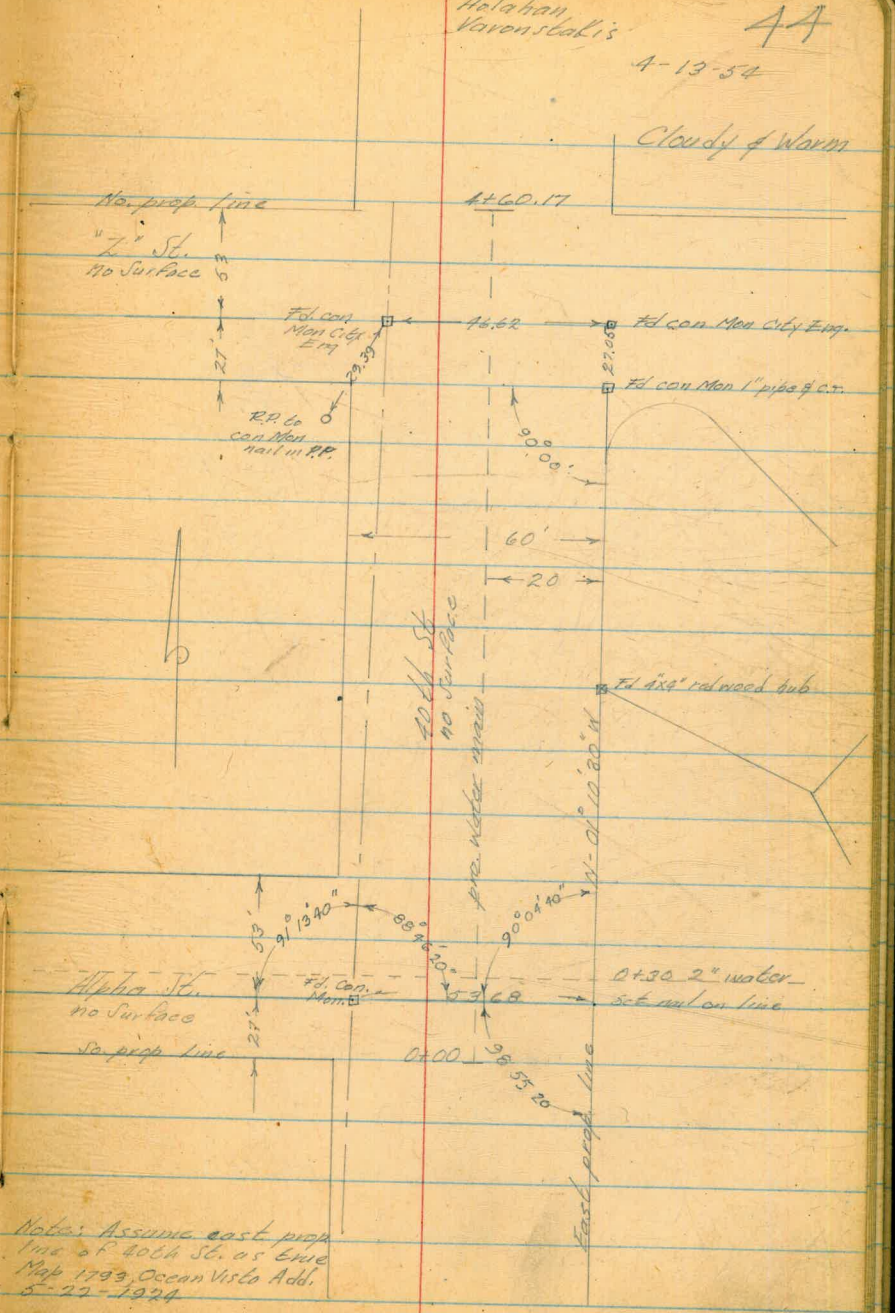
44

4-13-54

Cloudy & Warm

Profile of 40th St. Alpha to "Z" St.

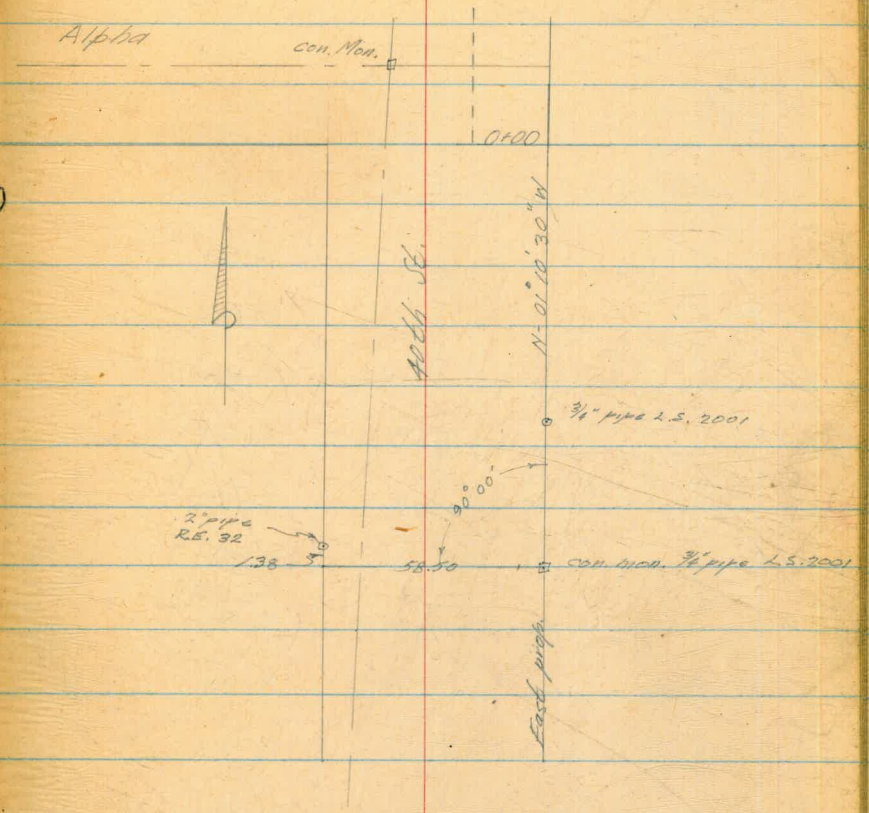
Sta	+	H.I.	−	Elev.	
				11.06	S.E. cor. 38th & Alpha - B.P.
	5.72	16.78			
T.P.			3.00	13.78 ✓	
	5.56	19.36			
T.P.			3.27	16.09 ✓	
	12.54	28.63			
			1.33	27.30 ✓	
	6.42	33.72			
			2.79	30.93 ✓	Con. Mon. Set T.BM. 40th & Alpha
	1.83	32.76 ✓			
			(Hand level)		
0+00			+2.5	35.26 ✓	
+50			3.9	28.86 ✓	
1+00			9.2	23.56 ✓	
+50			11.5	21.26 ✓	
2+00			12.8	19.96 ✓	
T.P.			12.88	19.88 ✓	
	3.56	23.44 ✓			



Note: Assume east prop. line of 40th St. as true Map 1793, Ocean Vista Add. 5-22-1924

Profile 40th St Alpha to "Z"

Sta.	+	H.I.	−	Elev.	
		23.44		19.14	I.E.
2+50			4.3	~~19.88~~ 18.94	
3+00			4.5	~~19.14~~ 18.84	
+50			4.6	~~18.94~~ 19.14	
4+00			4.3	~~18.84~~ 19.54	
+50			3.9	19.64	I.E.
4+60.17			3.8	End work	
			5.16	18.28	Set T.B.M. 11" pipe in Con. Mon 3+79.40
	7.45	25.73			
			0.40	25.33	
	2.59	27.92			
			12.20	15.72	
	3.84	19.56			
			5.04	14.52	
	3.85	18.37			
			7.31	11.06	
				11.06	B.M.



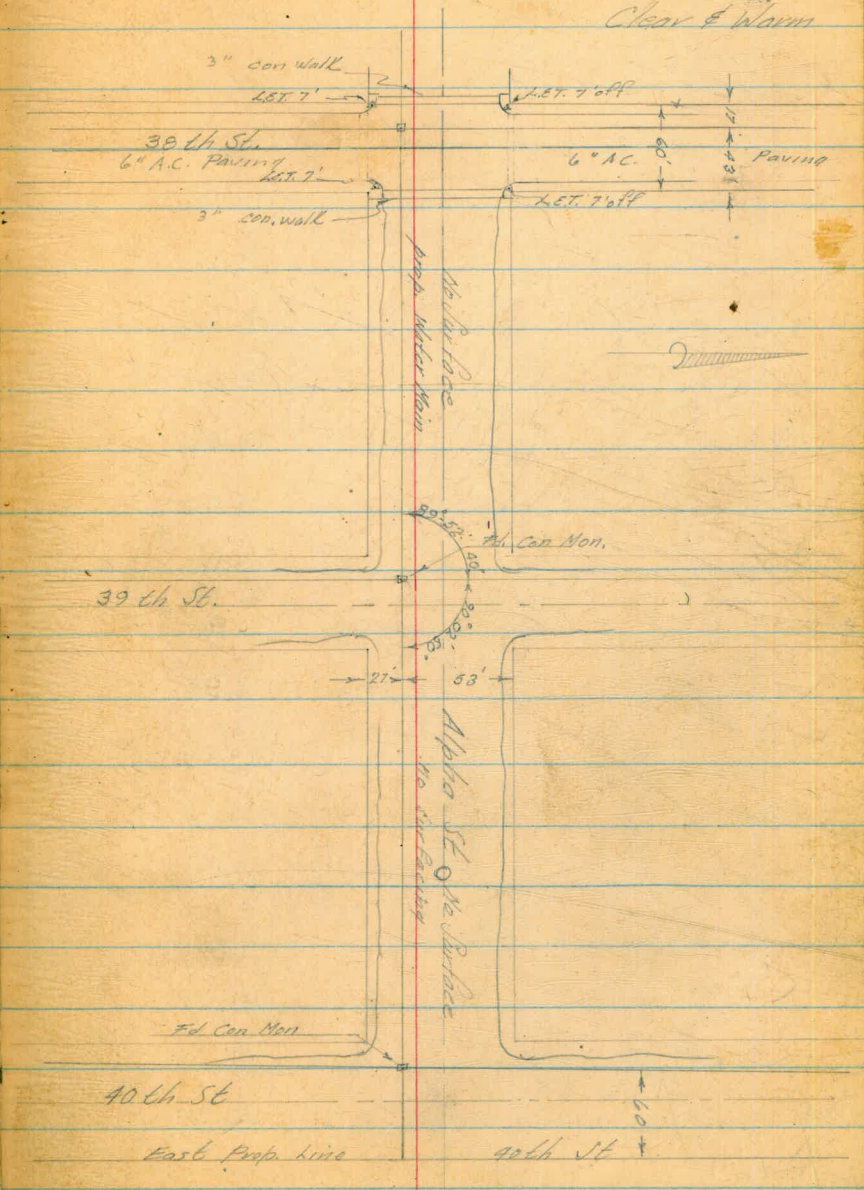
Wert
Varontakis
Holahan

4-15-54

Clear & Warm

Alpha St 38th to 40th Sts

Station	+	H.I.	−	Elev.	
				11.06	B.M., S.E. B.P. 38th Alpha
	5.72	16.78			
0+00			5.9	10.88	
+03			5.8	10.98	Edge con. walk W. 38th
+05			5.8	10.98	Edge con. walk W 38th
+09			6.0	10.78	Gutter W 38th St.
+50			6.0	10.78	
+52			6.1	10.68	Gutter E. 38th St.
+54			5.8	10.98	Edge con walk E 38th
+57			5.8	10.98	Edge con walk E 38th
1+00			5.9	10.88	
+50			5.5	11.28	
2+00			5.5	11.28	
+50			5.2	11.58	
3+00			4.8	11.98	
+50			4.2	12.58	
T.P.			4.16	12.62	
	7.14	19.76			



Alpha St 38th to 40th St.

Sta	+	H.I.	−	Elev.	
		19.76			
9+00			6.8	12.96	
+50			6.6	13.16	
5+00			6.3	13.46	
+50			6.3	13.46	
6+00			5.9	13.86	
+50			5.3	14.46	
		Flow	16.90	2.86	Sewer
+91		Rim	4.58	15.18	M.H.
7+00			4.8	14.96	
+50			4.8	14.96	
8+00			5.1	14.66	
+50			5.2	14.56	
T.P.			5.08	14.68	
	7.51	22.19			
9+00			7.4	14.79	
+50			7.3	14.89	
10+00			6.9	15.29	
			12.60	9.59	Sewer
10+41			6.40	15.79	M.H.

Alpha St. 38th to 40th

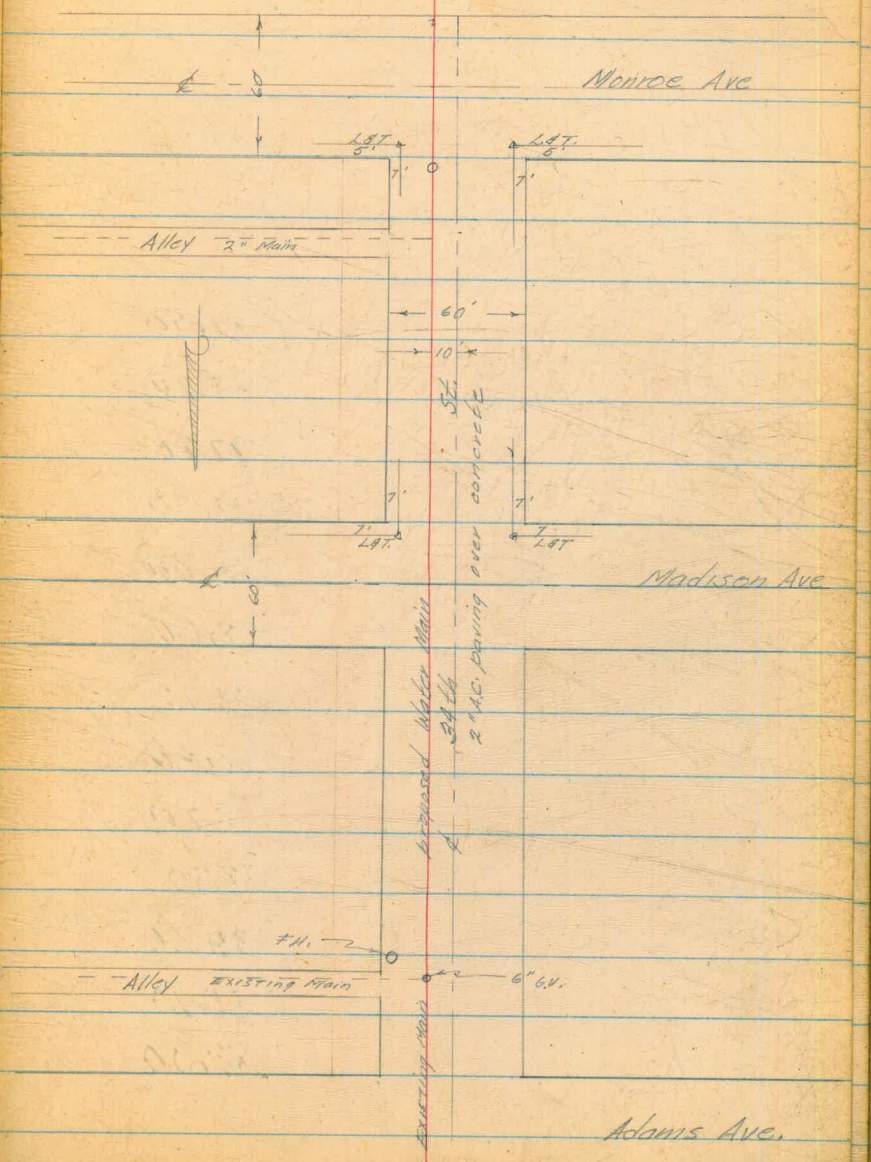
		22.19		
10+50			6.5	15.69
11+00			5.5	16.69
+50			4.7	17.49
T.P.			0.00	22.19
	12.20	34.39		
12+00			9.7	24.69
+50			5.2	29.19
13+00			3.3	31.09
13+28.79				Con Mon 40th Alpha
+38			2.7	31.69 Top edge road, W
+42			3.7	30.69 Toe edge road, W
+50			3.4	30.99
+63			3.8	30.59 Toe edge road, E
+64.			2.9	31.49 Top edge road, E
13+82.52			3.1	31.29 E. prop. line 40th End Work
			3.45	30.94 Con Mon 40th Alpha Elec.
				30.93

Wert
Varonfalis
Holahan

4-15-54

Profile 34th St. Alley No. of Monroe to Adams — clear & Warm

Sta.	+	H.I.	−	Elev.	
				388.71	St. Bk. 34th Monroe
	2.66	391.37			
			3.95	387.42	
	4.12	391.54			
0+00			4.8	386.74	So. prop. Line Monroe
+19			5.6	385.94	So. Gutter Monroe & Monroe
+27			5.1	386.44	
+45			5.7	385.84	No. Gutter
+50			5.6	385.94	
1+00			4.9	386.64	
+50			4.8	386.74	
+93			4.5	387.04	So. Alley Line
2+00			4.4	387.14	
2+08			4.4	387.14	No Alley Line
+50			4.4	387.14	
3+00			4.3	387.24	
+80			4.3	387.24	



Sta	+	H.I.	−	Elev.	
		391.54			
4+00			4.2	387.34	
T.P.			4.09	387.45	
	6.05	393.50			
+50			6.0	387.50	
5+00			5.8	387.70	
+50			5.7	387.80	
6+00			5.6	387.90	
+50			5.5	388.00	
7+00			5.5	388.00	
+13			5.4	388.10	So. Curb face Madison
7+49			5.1	388.40	No. Curb face Madison
8+00			4.8	388.70	
+50			4.7	388.80	
9+00			4.5	389.00	
+50			4.4	389.10	
10+00			4.5	389.00	

Sta.	+	H.I.	−	Elev.	
		393.50			
T.P.			4.47	389.03 ✓	
	5.27	394.30 ✓			
10+50			5.4	388.90 ✓	
11+00			5.4	388.90 ✓	
+50			5.2	389.10 ✓	
12+00			5.4	388.90 ✓	
+50			5.2	389.10 ✓	
13+00			5.0	389.30 ✓	
+50			4.9	389.40 ✓	
14+00			4.8	389.50 ✓	
+50			4.8	389.50 ✓	
+64			5.3	389.00 ✓	So. Gutter Adams Ave
T.P.			4.63	389.67 ✓	
	5.37	395.04 ✓			
			5.77	389.27 ✓	S.W. BP.
				389.25	Adam & 34th

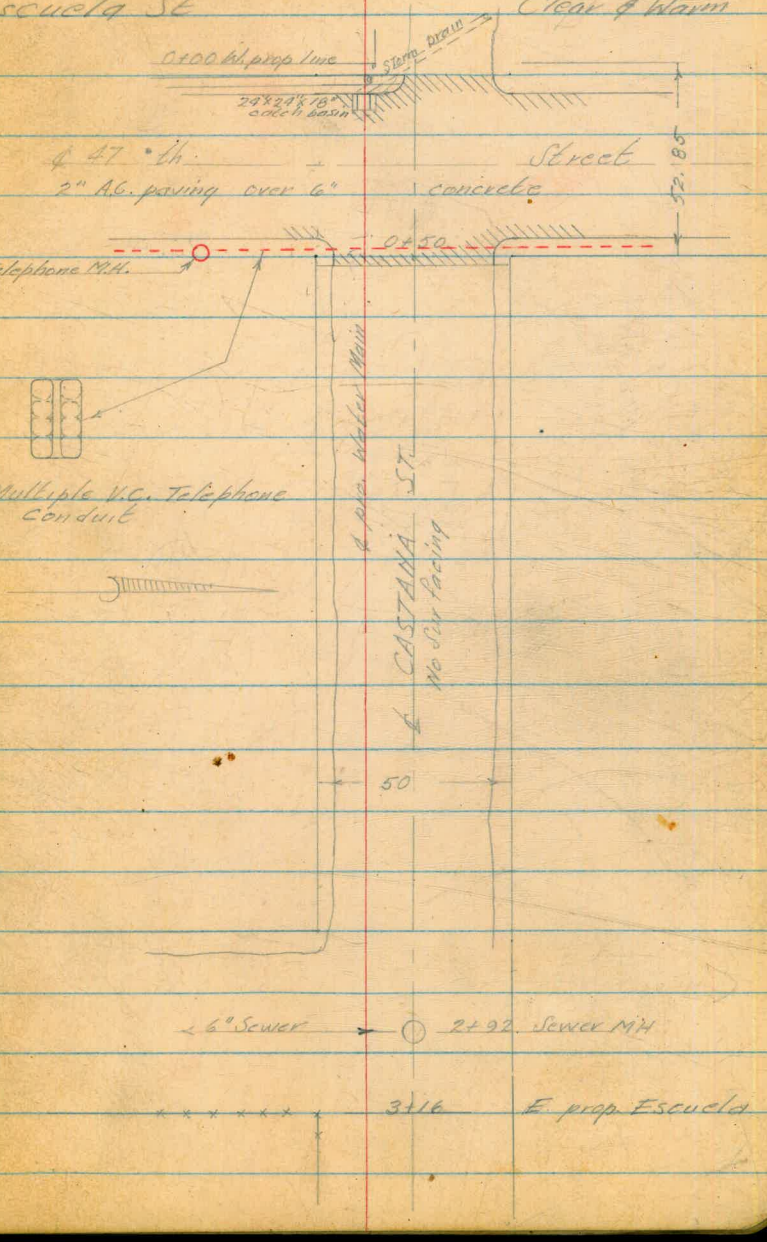
Wert
Varonfalkis
Holahan

4-16-54

Profile of Castana St. 47th to Escuela St

Clear & Warm

Sta.	+	H.I.	-	Elev.	
				75.37	℄ E.T. & Nogal 47th
	4.62	79.99			
					W. prop.
0+00			6.4	73.59	47th St.
1+07			4.8	75.19	W. edge Sidewalk
1+12			4.9	75.09	E. edge walk
1+15			5.0	74.99	Top W. Curb
1+16			5.4	74.59	West Gutter ℄ 47th
1+30			5.0	74.99	
1+42			5.4	74.59	E. Gutter
1+80			9.5	70.49	Top Tele. Conduit
1+82.8			5.7	74.29	E. edge pavement
2+00			6.5	73.49	
2+50			6.8	73.19	
3+00			6.8	73.19	
3+50			7.1	72.89	
		Flow	12.9	67.09	Sewer
3+92		Rim	6.3	73.69	M.H.



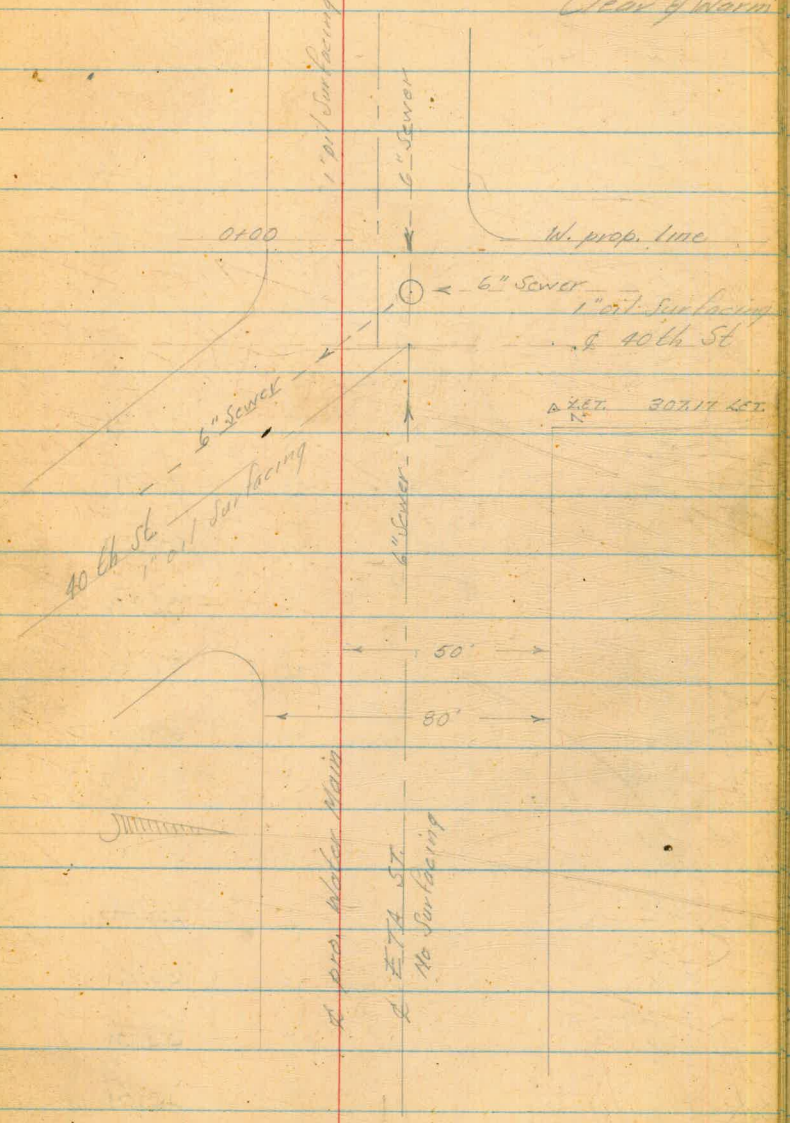
		79.99			
3+00			6.5	73.49	
+16			6.1	73.89	E. Fence Line Escuela
			5.06	74.93	
	5.02	79.95			
			4.59	75.36	
					L.E.T. 47th
				75.37	Nagal

Wert
Varon Falls
Holahan
4-19-54

Clear & Warm

Profile of Ela St 40th to 41st

Sta.	+	H.I.	−	Elev.	
				53.06	N.W Cor 40 Epsilon
	1.49	54.55			
T.P.			12.85	41.70	
	0.64	42.34			
0+00			7.4	34.94	W/L of 40th
		Flow	16.4	25.94	Sewer
+30		Rim	8.4	33.94	M.H.
+50			9.5	32.84	
+75			10.0	32.34	E. Gutter 40th
1+00			9.8	32.54	
+50			5.7	36.64	
T.P.			0.45	41.89	
	6.90	48.79			
P.O.T.					
2+00			5.5	43.29	
+50			3.2	45.59	
3+00			2.3	46.49	
3+50			3.9	44.89	
4+00			5.4	43.39	
P.O.T.					
+50			5.9	42.89	



Sta.	+	H.I.	−	Elev.	
		48.79		11.29	
4+75			7.5	41.29	
5+00			11.9	36.89	
T.P.			12.44	36.35	
	6.16	42.51			
5+25			9.6	32.91	
+50			12.8	29.71	
+70			14.0	28.51	
6+00			6.0	36.51	
+10			5.1	37.41	
+25			4.5	38.01	
+50			4.9	37.61	
+65			5.4	37.11	W. edge 41 St. St.
+69			6.6	35.91	W. Gutter 41 St.
+78			6.1	36.41	E. edge 41 St.
7+00			6.6	35.91	
7+20.95			9.2	33.31	E. prop line 41 St.

℄ E. 41 St. St. No Surfacing

℄ 41 St — Street No Surfacing

E. prop. — 7+20.95

	42.51			
		10.42	32.09	J&E TBM. P.P. SW. Cor. 456 - Elev.
10.93	42.52			
		0.47	42.05	
12.96	54.91			
		1.11	53.80	
5.40	59.20			
		6.12	53.08	
			53.06	BM.

71ST & 72nd ST.
GRDS & STKS FOR EXISTING F.H.S.
MOHAWK ST. 71ST to 72nd
GRDS. for Existing Mets

B.M.	11.97	485.02	473.05	B.P. SW Cor 71ST & EL CAJON	
0+00 = N'ly R/L EL CAJON @ 71ST					
1+30 E 24.5 RT. F.H. (Existing F.H. @ 21°)					
④ F.H.		3.8	481.2	481.4	F0 2
P	12.36	497.14	0.24	484.78	
0+00 = E'ly R/L 71ST @ Mohawk					
0+19 NOR W.M. (25.5 Ner)		2.9	494.2	491.8	C 2 4 — 7102 Mohawk.
1+07 NOR. W.M. (25.5 Ner)		2.0	495.1	492.9	C 2 2 — 7114 Mohawk
P	12.82	509.72	0.26	496.90	511.9
	11.81	521.00	0.53	509.19	
5+17 E. 24.5 RT. F.H. (Existing F.H. @ 21°)					7102 Mohawk
④ F.H.		9.0	511.0	511.9	F 0 9 — 7114 "
P	7.12	528.11	0.01	520.99	
P rim of MH	10.54	533.80	4.85	523.26	
0+00 = W'ly R/L 72nd @ Mohawk (25.5 N.)					
0+38 W					5012 72nd
0+00 = N'ly R/L El Cajon @ 72nd					
6+36 W WM.		3.3	530.5	527.9	C 2 6 — 7291 Saranac
6+78 W. 21.5 LT F.H. Existing F.H. (21.5)					
④ F.H.		1.7	532.1	529.7	C 2 4
P	0.23	521.07	12.96	520.84	
P	0.22	507.96	13.33	507.74	
P	0.52	495.48	13.00	494.96	

71ST & 72ND
(Cont'd)

0+00 = Nly ℄ El Cajon @ 72nd		495.08			
1+30 E FH 215 RT (Existing F.H. @ 215)		④	6.0	489.5	488.3
TP	19.4	484.08	13.34	482.14	
0+00 = Nly ℄ El Cajon @ 72nd					
1+70 E FH 215 LT Ex			6.6	487.5	478.3
CK. BM			3.62	480.46 =	480.46
TP	13.76	502.76		489.50	
0+00 = Nly ℄ 72nd St @ Mohawk					
0+38 Nly 25E Nly			2.5	500.3	499.6

6/14/54 58

C12

CO2

BP SW Cor 72nd & El Cajon.

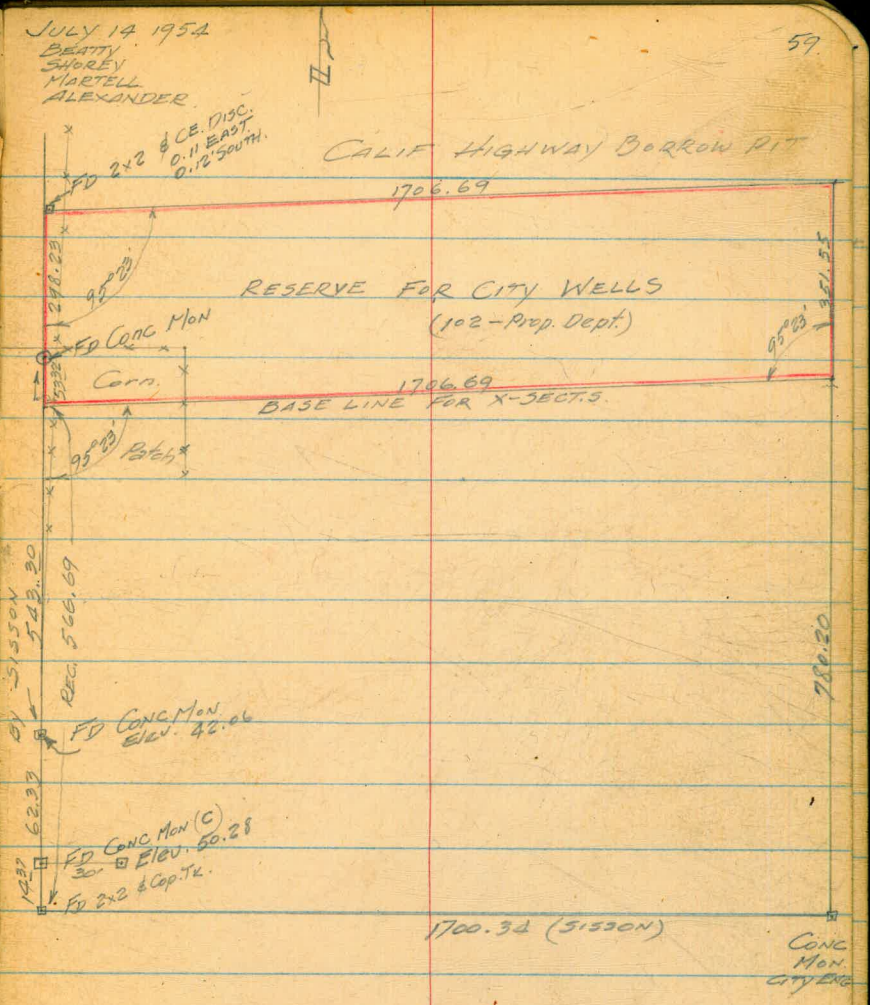
6/18/54

CO7 5012. 72nd

MISSION VALLEY
RESERVE FOR CITY WELLS
PARTITION of LOT 35 RANCHO MISSION

See Also FB. 2103 pg. 31 (City Engr.)

JULY 14 1954
BEATTY
SHOREY
MARTELL
ALEXANDER



AREA bounded in red flagged 4/1/57 Shorey & party

Mission Valley
Reserve for City Wells
Cross-Sections.

BM.	0.25	54.63		54.38
TP	1.66	50.44	5.85	48.78
			4.19	46.25
			8.38	42.06
Ck. City Engr TP			0.16	50.28 = 50.26
TP	5.18	50.25	5.37	45.07
0+00 = Wly Line			5.28	44.97
1+00			4.65	45.60
Well 92'N 1+67				
2+00 @ Fen.			4.23	46.02
Set TP	3.53	50.70	3.08	47.17
2+10			4.2	
2+75			4.6	
3+00			4.71	
4+00			4.27	

7/15/54
161

60.

BP on Spillway wall of Culv. (See FB. 2103 pg 32 City Engr.

NE Cor Nly Hdwll Cattle pass

Conc Mon.

Conc Mon. City Engr. FB. 2103-32

gink 0+40

BASE LINE
SN Line City Wells

Left (Nly)

44.6	45.2	45.6	45.0	45.6	45.4	45.1	
5.7	5.1	4.7	5.3	4.7	4.9	5.2	
351.6	300	275 @ Fen.	200	100	58.2 @ Fen	0	

43.7	45.4	44.7	44.2	45.6	45.3	45.8	45.7
6.6	4.9	5.6	6.1	4.7	5.0	4.5	4.6
350.	279	258	250	150	100	48.2 @ Fen.	0

32.7	32.5	44.8	45.3	45.4	45.9	46.1	
17.6	17.8	5.5	5.0	4.9	4.4	4.2	
350	304	278	200	100	38 @ Fen.	0	

NAIL IN TREE
50' LT 2+75

32.7	32.6	45.2	45.9	45.7	46.5		
18.0	18.1	5.5	4.8	5.0	4.2		
350	272	252	200	100	0		

32.0	31.9	42.5	45.5	45.5	45.7	46.0	46.0
18.7	18.8	8.2	5.2	5.2	5.0	4.7	4.7
350	294	283	282	252	200	100	0

32.0	31.9	42.6	45.6	45.7	46.0	46.0	
18.7	18.8	8.1	5.1	5.0	4.7	4.7	
350	309	294	282	200	100	0	

31.7	31.8	40.7	45.2	45.7	46.2	46.0	46.4
19.0	18.9	10.0	5.5	5.0	4.5	4.7	4.3
350	298	282	268	200	171	100	0

		50.70		
5+00			3.50	47.20
	Well 89' Nor 5+90			
5+88			3.92	46.78
6+00			3.92	46.78
Set TP	4.15	51.81	3.04	47.66
7+00			4.51	47.30
	Well 93' Nor. 7+17			
8+00			5.21	46.60
Set TP	5.45	52.03	5.23	46.58
9+00			4.23	47.80
Set TP	6.50	53.08	5.45	46.58
10+00			5.18	47.90
	Well @ 88' Nor. 10+17			
TP	5.18	53.63	4.63	48.45
11+00			5.17	48.46
TP	5.17	53.75	5.05	48.58
12+00			5.23	48.52
TP	3.05	53.50	3.30	50.45

LEFT. (NLY.)

31.5	31.7	40.7	43.6	45.5	45.9	46.3	47.2
19.2	19.0	10.0	7.1	5.2	4.8	4.4	3.5
350	282	265	263	254	254	100	0

31.7	31.7	39.7	44.2	45.7	46.4	47.0	46.8
19.0	19.0	11.0	6.5	5.0	4.3	3.7	3.9
350	292	280	259	200	100	58	0

39.2	39.1	39.7	44.2	45.7	46.4	47.0	46.8
11.5	11.6	11.0	6.5	5.0	4.3	3.7	3.9
350	300	280	260	200	100	58	0

43.0	45.1	45.3	46.1	47.0	46.8	47.3
8.8	6.7	6.5	5.7	4.8	5.0	4.5
350	340	300	265	200	100	0

45.4	45.4	46.6	46.8	46.6
6.4	6.4	5.2	5.0	5.2
350	300	200	100	0

45.6	46.3	47.2	47.3	47.8
6.4	5.7	4.8	4.7	4.2
350	300	200	100	0

46.8	47.4	47.7	48.5	47.9
6.3	5.7	5.4	4.6	5.2
350	300	200	100	0

BASE LINE

47.4	47.6	48.3	48.2	48.4
6.2	6.0	5.3	5.4	5.2
350	300	200	100	0

48.1	47.7	48.1	49.3	48.6
5.7	6.1	5.7	4.5	5.2
350	300	200	100	0

		53.50		
13+00			4.44	49.06
TP	3.48	53.93	3.05	50.45
13+36 (Top)			5.20	48.73
13+48 (Bott.)			13.0	40.9
13+75		(Aver)	13.1	40.8
TP	5.29	53.60	5.62	48.31
14+00			12.80	40.8
14+55 (Bott.)			10.5	43.1
14+65 (Top.)			5.63	48.0
15+00			4.82	48.78
TP	3.97	53.63	3.94	49.66
15+70 (Top)			3.65	49.98
WELL 15+82, 86' Nor. ℄				
15+87 Bott.			13.4	50.2

LEFT (N14)

47.8									
46.8	48.5	48.9	48.9	49.1					
5.7	5.0	4.6	4.6	4.4					
350	300	200	100	0					

Nail in Tree

July 19, 1952

48.2	48.0	49.1	48.4	48.6	51.5	51.7	49.1	48.7	
5.7	5.3	4.8	5.5	5.3	2.4	2.2	4.8	5.2	
350	300	200	100	86	66	53	41	0	
					Spoil Ridge				

47.8	47.6	48.9	48.6	48.9	40.9	
6.1	6.3	5.0	5.3	5.0	13.0	
350	300	200	100	29	0	

48.0	47.9	49.0	48.7	48.9	40.8	
5.9	6.0	4.9	5.2	5.0	13.1	
350	300	200	100	70	0	

47.9	48.1	48.9	48.7	48.7	40.8	
5.7	5.5	4.7	4.9	4.9	12.8	
350	300	200	100	63	0	

48.3	48.7	48.4	48.7	49.3	47.2	43.1
5.3	4.9	5.2	4.9	4.3	6.2	10.5
350	300	200	100	73	28	0

48.3	48.6	48.3	48.7	49.4	47.4	48.0
5.3	5.0	5.3	4.9	4.2	6.2	5.6
350	300	200	100	70	25	0

48.2	48.3	49.6	48.4	49.3	48.8	
5.4	5.3	4.0	5.2	4.3	4.8	
350	300	200	100	75	0	

48.9	49.2	50.2	50.1	46.8	49.2	50.0
4.7	4.4	3.4	3.5	6.8	4.2	3.6
350	300	200	170	100	53	0

				SDIO	46.6	48.1	40.2
				3.6	7.0	5.5	13.4
350	300	200	170	100	74	0

53.63

16+00	13.9	39.7	
16+30	13.0	40.6	
16+81 (Both) Rt & Lt to ℄	13.0		
16+95 (Top)	4.0		
17+00	3.77		⊥ to Ely Bdry Line
17+06	3.9		
17+06.69	6.9		
TBM Set	7.68	54.67	
ck BM	6.64	46.99	
	3.41	51.26	= 51.23

FB 2.103
Pg. 36

	48.8	49.2	50.0	48.2	46.3	40.2	39.7
	4.8	4.4	3.6	5.2	7.3	13.2	13.9
	350	300	200	110	100	38	0
	49.0	48.1	49.4	49.8	45.9	43.5	40.3	40.6
	4.6	5.5	4.2	3.8	7.7	10.1	13.3	13.0
	350	325	300	280	240	200	100	0
	49.3	48.0	49.4	49.7	46.1	43.6	40.3	40.6
	4.3	5.6	4.2	3.9	7.5	10.0	13.3	13.0
	350	322	300	282	252	200	100	0
49.6			49.9	48.0	48.3	49.0	49.6
4.0			3.7	5.6	5.3	4.6	4.0
350			200	135	100	50	0

49.6	49.9	46.3	48.5	49.0	50.3	47.9	50.1	50.2	48.5	50.1	49.8
4.0	3.7	7.3	5.1	4.6	3.3	5.7	3.5	3.4	5.1	3.5	3.8
350	329	309	300	290	200	135	100	75	65	50	0

49.6	49.9	46.3	48.6	49.0	50.0	48.1	46.5	50.3	49.7
4.0	3.7	7.3	5.0	4.6	3.6	5.5	7.1	3.3	3.9
350	330	310	300	290	200	135	100	40	0

49.6	49.9	46.3	48.6	49.0	50.0	48.2	45.5	46.8	46.7
4.0	3.7	7.3	5.0	4.6	3.6	5.6	8.1	6.8	6.9
350	330	310	300	290	200	135	100	50	0

on City Engr. Mon. 780' Sly 17+06.69

NOTES REDUCED
C.O.N. 9-6-1954

Eta St 40th to 41st
Stks for 6" AC

West
Williams
Varonfakis
Kallhofer

11/15/54

	0.65	53.71		53.06	BM NW Cor 40th & Episilon
	0.86	41.90	1267	41.04	
0+60			9.5	32.1 29.0	C3 4 Begin Work
1+00			9.7	32.2 28.9	C3 3
1+09	WMN		6.9	35.0 35.6	F0 6
+50			5.0	36.9 32.1	C4 8
+57	WMS		4.0	37.9 36.1	C1 8
+61	EM Tree		3.6	38.3 33.3	C5 0
+61			3.9	38.0 36.3	C1 1 (5) & EM
+66	MN		1.8	40.1 38.3	C1 8
	8.10	49.91	0.09	41.81	
2+00			6.4	43.5 35.5	C8 0
+07	MS		6.0	43.9 40.2	C3 1
+15	MN		4.7	45.2 41.5	C3 1
+39	MS		3.9	46.0 41.9	C4 1
+50			4.0	45.9 38.8	C7 1
+66	MN		2.3	47.6 43.4	C4 3
+67	MS		3.3	46.6 42.9	C3 1
3+00			3.3	46.6 39.1	C7 5

Eto Cont

	49.91			
3+06 MN		2.8	47.1	44.0
+50		5.3	44.6	39.4
4+00		6.8	43.1	37.7
+07 MS		7.3	42.6	41.2
+33 MS		7.5	42.4	40.1
+50		7.3	42.6	36.2
+77 MN		7.7	42.2	39.0
+98 MN		9.8	40.1	38.2
5+00		13.10	36.8	31.2
	3.12 40.38	12.60	37.26	
+02 MS		4.6	35.8	37.7
+25		7.4	33.0	28.8
+50		10.9	29.5	27.4
+75		10.6	29.8	27.4
+87.5' MN		6.4	34.0	34.8
6+00		4.5	35.9	27.2
+11 MS		5.6	34.8	33.5
+76 MN		2.7	37.7	33.8
+50		3.7	36.7	26.8
7+00		5.0	35.4	26.4
+25 FH Jeep		8.4	32.0	26.2
+25 ⓔ DH		8.7	31.7	29.7
		8.30	32.08 = 32.09	

C3 1

C5 2

C5 4

C1 4

C2 3

C6 4

C3 2

C1 9

C5 6

F1 9

C4 2

C2 1

C2 4

C8 1

C1 3

C3 9

C9 2

C9 0

C5 8

C2 0

FBM SW Cor 4 & E 1/4
32.09

37.7
+ 3.0
40.9
6.9
34.0

Nordica 42nd to 43rd
Stks for 6" AC

B.M. 6.41	30.40		23.99	
0+60		5.7	24.7	
+75		6.6	23.8	18.6
1+00		10.6	19.8	18.6
+31 M.N.		7.2	23.2	25.4
+50		7.0	23.4	20.4
2+00		5.1	25.3	21.3
+06 M.N.		3.2	27.2	26.4
49 M.N.		1.9	28.5	27.4
50		4.0	26.4	22.2
69 M.N.		+0.6	31.0	27.8
3+00		2.4	28.0	22.9
T.P. +12 M.S 7.65	36.71	1.34	29.06	27.7
+50		5.3	31.4	23.6
+56 M.S		5.0	31.7	29.8
4+00		5.5	31.2	24.4
4+00 M.N.		1.4	35.3	30.2
B.C. 34.30		7.2	29.5	24.5
+50		7.8	28.9	24.6

West T
Williams
Varon Fakis
Kellhofer

11/3/54

See FB 894 P 15

Top rim Sewer MH 10'2+ 0+27

BEGIN WORK

C5	2
C1	2
F2	2
C3	0
C4	0
C0	8
C1	1
C4	2
C3	2
C5	1
C1	4
C7	8
C1	9
C6	8
C5	1
C5	0
C4	3

	36.71				
4+75		8.3	28.4	24.7	C_3^{7}
E.C. 93.91		8.4	28.3	24.7	C_3^{6}
5+00		8.5	28.2	24.8	C_3^{4}
+04. M.N.		6.3	30.4	30.8	F_0^{4}
+44 M.N.		6.9	29.8	31.0	F_1^{2}
+50		8.6	28.1	24.9	C_3^{2}
6+00		7.8	28.9	25.0	C_3^{9}
T.P.	4.76	34.19	7.28	29.43	
+23			4.4	29.8	25.9	C_3^{9}
+23			4.7	29.5	30.8	F_1^{3}
CHECK T.B.M.			2.82	31.37=31.47	

C+60 Sewer 31.47

F.H. TEE SOUTH SIDE

(5') F.H.

RIM. SEWER M.H 6+60 ±

KEARNY MESA R.L.
AT MISSION VALLEY CROSSING
& Profile and Sections

BM	1.14	38.95		37.81
TP	4.82	32.97	10.80	28.15
5+04			0.0	33.0
5+18			1.6	31.4
5+50			3.5	29.5
5+93			4.0	29.0
6+00			+1.7	34.7
6+13			5.5	27.5
6+50			5.2	27.8
6+58			4.7	28.3
TP	11.50	39.83	4.64	28.33
6+66			7.9	31.9
7+00			8.9	30.9
7+19			10.7	29.1
			2.05	37.78
7+27			2.05	37.78
			9.0	30.8
CL BM			2.02	37.81 - 37.81
7+33			6.1	33.7
7+50			4.2	35.6
7+85			2.7	36.1

10/18/56
BEATTY
SMITH

68

Chis □ SW Cor B.O. Chamber 7+19

(Lt.-Wtn) (Rt.-Elv)

(Toe Hwy fill slope) +1.0 0.8
75 100

(at Hwy R/W fan) (Begin cut 0+35)

0.8 × 4.0 5.7 6.3 7.2
100 2 25 50 100

3.3 3.0 × 4.8 4.5
30 25 10 100
Wet

3.3 3.4 2.6 2.7 5.2 × 5.4 5.7
32 29 26 18 10 50 100
Wet

× 9.9 14.9 15.4 11.2 11.8
10 15 50 60 100

8.7 9.0 × 8.9 14.1 15.4 17.2
70 30 10 16 50 100

NOTE:-
7+00 - 11+00
Excavated area
on right in process
of being backfilled

9.0 3.9 3.2 6.1 × 4.5 10.8 12.8 12.2 15.2
70 58 28 24 6 7 16 50 100
Wet

7+75 — 3.7 3.7 7.5 8.0 12.0 14.6
× 6 8 50 70 100

		39.83		
8+00			1.4	38.4
TP	6.33	45.75	0.41	39.42
8+50			5.9	39.9
9+00			5.2	40.6
9+16			5.0	40.8
10+00			4.9	40.9
10+57	@ fence		5.6	40.2
10+60			6.3	39.5
11+00			6.4	39.4
11+50			6.7	39.1
12+00			10.0	35.8
TP	2.56	36.45	11.86	33.89
12+50			3.8	32.7
13+00			4.8	31.7
14+00			5.6	30.9
15+00			3.6	32.9
16+00			3.1	33.4
17+00			3.5	33.0
TP	7.60	40.93	3.12	33.33

LT. W/y

RT EN

+0.3 +0.4 1.7 — 7.5 8.0 14.6
7.0 27 22 — 12 80 100

8+05 — 1.4 — +0.2 6.6 5.6 14.5
76 90 115 135

4.2 — 7.2 18.5 19.0 14.0
60 — 75 90 110 120

18.5 18.5 8.0 4.2 — 6.0 18.0 18.0
100 89 74 61 — 40 60 100

18.5 12.0 11.8 4.8 — 5.0 15.5 15.7 8.0 14.0
— 85 75 55 44 — 4 25 35 50 100

4.7 15.3 15.3 16.0
10 25 50 100

20.0 19.5 6.6 — 1.9 16.0 16.2
100 58 38 — 32 57 100

lumpy 21.0 19.0 10.3 10.3 6.8 — 6.0 6.1 16.0 16.1
100 65 45 30 25 — 14 41 65 100

9.6 7.2 — 6.2 — level
100 50 — 100

20.0 16.8 10.6 9.6 — 6.7 6.2
100 65 20 8 — 15 100 — level

14.8 8.8 6.8 — +2.0 +2.0 — level
100 60 4 — 15 30

17.9 17.8 7.8 7.8 — +2.5 +2.0 — level
100 79 58 6 — 15 31

19.3 19.3 7.8 7.6 — +2.2 +2.4 9.6 11.0
100 75 58 10 — 17 41 55 100

19.5 19.3 7.7 7.6 — +2.6 +3.6 +3.5 13.1 13.5
100 70 25 20 — 19 30 40 59 100

19.3 19.1 8.7 8.6 — +3.7 +4.0 9.6 11.6
100 67 43 20 — 20 40 57 100

12.0 12.0 9.6 9.1 — +2.9 +2.6 13.4 13.6
100 60 34 20 — 19 22 67 100

		40.93		
17+85			7.7	33.2
18+00	BC.		10.4	30.5
18+18			3.4	37.5
18+41.81	EC.		4.8	36.1
18+61			4.7	36.2
18+62			7.8	33.1
18+73.06	BC		8.8	32.1
18+73	outlet ℄		9.40	31.50
	inlet ℄		6.60	34.30
18+83			4.5	36.4
19+15.03	EC.		4.0	36.9
20+00			3.5	37.4
℄		3.90	43.86	0.97 39.96
℄		1.41	43.22	2.03 41.83
ck BM				5.44 37.80 = 37.81

16.0/100 16.1/50 11.0/40 12.9/17 10.0/8 × 5.4 + 3.0 2.0 2.8/6.5 12.3/9.0 cut on ℄ 0.0 18+25

17.3/100 17.3/70 13.6/50 12.8/25 4.8/12 ×

16.5/100 14.0/47 4.3/30 ×

16.0/100 15.1/40 3.5/22 ×

(cut 0.0 20+50)

Mission Valley Sand Pit
(Reserve for City Wells)
(Fenton's Lease) Cross-Sections

Station	+BS	H.I.	-F.S	Elev.
TBM.	0.29	50.57		50.28
ck TBM.			8.48	42.09
TP	5.52	50.84	5.25	45.32
0+00			5.95	44.9
1+00			5.18	45.7
2+00			4.92	45.9
2+40			4.54	46.3
2+75			5.02	45.8
3+00			5.02	45.8
3+15				
3+30			5.1	45.7
4+00			4.0	46.8
5+00			3.8	47.0

April 29 1958
Beatty
Kehler

71.

(See pgs. 59-63 for Originals.)

→ To Left (N½)

SLY Base Line

Same as Orig.

44.1	45.1	45.4	45.5	45.6		
6.7	5.7	5.4	5.3	5.2		
350	300	200	97	0		
25.2	24.8	31.2	44.6	45.2	45.7	45.9
25.6	26.0	19.6	6.2	5.6	5.1	4.9
350	310	300 WE	270	200	100	0
24.8	24.8	31.2	45.0	45.4	45.8	46.3
26.0	26.0	19.6	5.8	5.4	5.0	4.5
350	315	300 WE	274	200	100	0
24.8	24.8	31.2	45.8	45.5	45.9	45.8
26.0	26.0	19.6	5.0	5.3	4.9	5.0
350	315	300 WE	282	200	100	0
22.2	29.2	31.2	45.7	45.5	46.1	45.8
28.6	21.6	19.6	5.1	5.3	4.7	5.0
350	306	302	284	200	100	0
	326	WE				

Duplicate this Section for 3+15

22.8	29.0	31.0	44.7	45.6	31.2		31.3	47.0	45.7
28.0	21.8	19.8	6.1	5.2	19.6		19.5	3.8	5.1
350	307	302	282	248	222		71	53	0
	325	WE			WE		WE		
21.8	25.8	31.1	45.5	40.6	37.5	31.7	31.8	46.8	46.8
29.0	25.0	19.7	7.3	10.2	13.3	19.1	19.0	4.0	4.0
350	310	295 WE	274	270	194	187 WE	63 WE	24	0
21.8	27.8	31.9	35.1	45.3	31.3		31.3	31.8	47.8	47.0
29.0	23.0	19.5	15.7	15.5	19.5		19.5	19.0	3.0	3.8
350	300	WE 260	245	225 (WE)	220	(WE) 110		50	35	0

Red. Hub

MISSION VALLEY SAND PIT
X-SECTS (Cont.d)

4/30/58

72

		30.84		
5+88			3.7	47.1
6+00			3.9	46.9
7+00			3.83	47.0
4 Box	1.02	48.16	3.70	47.14
8+00			1.1	47.1
8+50			3.8	44.4
8+75			9.1	39.1
4 Top Stk	8.99	43.91	13.24	34.92
9+00			11.1	32.8
9+87			11.3	32.6
10+00			4.78	39.1
11+00			2.93	41.0

23.2 27.8 31.2 34.0 33.7 31.3 22.8 31.3 47.0 47.1
27.6 23.0 19.6 16.8 17.1 19.5 280 19.5 38 37
350 262 257 242 225 220 165 112 38 0
290 WE WE WE

23.2 27.8 31.2 34.0 33.8 31.3 22.8 31.3 47.1 46.9
27.6 23.0 19.6 16.8 17.0 19.5 280 19.5 3.7 3.9
350 265 255 242 225 220 165 110 36 0
290 WE WE WE

23.3 27.8 31.3 31.3 27.8 31.3 31.8 46.6 47.0
27.5 23.0 19.5 19.5 28.0 19.5 19.0 4.2 3.8
350 275 270 225 180 140 84 69 0
300 WE WE WE

22.2 22.2 26.2 20.2 31.3 39.8 39.5 47.2 47.1
26.0 26.0 22.0 28.0 16.9 8.4 8.7 1.0 1.1
350 300 200 150 125 110 80 70 0
WE

18.7 18.7 21.2 21.2 31.2 41.4 42.1 44.8 44.4
29.5 29.5 27.0 27.0 17.0 6.8 6.1 3.4 3.8
350 300 200 159 117 105 86 83 0
WE

19.2 20.2 20.2 23.3 31.3 43.5 45.8 43.2 39.1
29.0 28.0 28.0 24.9 16.9 4.7 2.4 5.0 9.1
350 275 200 135 120 110 78 8 0
WE

17.7 19.9 22.9 30.8 46.3 46.1 33.5 33.4 33.4 37.8
26.2 24.0 21.0 13.1 +2.4 +2.2 10.4 10.5 10.5 11.1
~~300~~ 200 150 104 72 50 30 18 10 0
350 250 WE

17.7 19.9 22.9 30.9 43.4 44.5 35.3 32.6
26.2 24.0 20.0 13.0 0.5 +0.6 8.6 11.3
300 200 108 100 84 55 40 0
350 250 150 WE

17.7 21.4 24.4 30.9 42.0 43.6 44.1 35.8 35.3 39.1
26.2 225 19.5 13.0 1.9 0.3 +0.8 8.1 8.6 4.8
350 250 185 178 158 83 55 40 12 0
300 210 WE

REQ. 1WB.

16.9 19.9 24.9 30.9 35.5 30.9 30.9 46.4 45.9 41.4 41.0
27.0 24.0 19.0 13.0 8.4 13.0 13.0 +2.5 +2.0 2.5 2.9
300 225 190 183 175 165 84 67 43 31 0
350 275 WE WE WE

Mission Valley Sand Pit
X-Sects Cont'd

5-1-58

P 806	8.53	43.91 52.39	0.05	43.86
11+50			4.8	47.6
12+00			4.1	48.3
12+50			3.0	49.0
13+00			3.3	49.1
13+36			3.6	48.8
13+48			9.9	42.5
13+75			11.5	40.9
14+00			11.6	40.8
14+55			9.0	43.4

						16.9	19.9	26.9	30.9	39.4	48.4	47.6
						35.5	32.5	25.5	21.5	3.0	4.0	4.8
						300	200	125	110	70	35	0
						350	275	165	WE			
					16.6	26.6	30.6	31.8	31.4	38.7	49.6	46.5	48.3
					35.8	25.8	21.8	20.6	21.0	13.7	2.8	5.9	4.1
					300	190	180	175	162	155	135	5	0
					350	250	WE						
16.6	24.9	30.9	34.1	31.8	41.9	43.6	50.8	48.6	46.2	46.6	49.0	49.0
35.8	27.5	21.5	20.3	20.6	10.5	8.8	1.6	3.8	6.2	5.8	3.4	3.4
300	200	190	188	175	159	129	116	36	33	7	5	0
350	250	WE										
17.9	24.9	30.9	34.9	37.9	30.9	30.9	43.9	43.4	~~31.8~~ 30.8	~~31.8~~ 30.8	49.1	
34.5	27.5	21.5	17.5	14.5	21.5	21.5	8.5	9.0	21.6	21.6	3.3	
300	220	212	208	178	170	102	87	67	55	25	0	
350	270	WE			WE	WE			WE	WE		
17.9	25.8	30.8	34.4	34.4	30.8	30.8	38.4	38.6	30.8	30.8	46.8	
34.5	26.6	21.6	18.0	18.0	21.6	21.6	14.0	13.8	21.6	21.6	3.6	
325	285	270	236	207	202	97	84	61	53	27	0	
350	300	WE			WE	WE			WE	WE		
17.9	25.8	30.8	33.6	33.9	30.8	30.8	36.3	35.9	30.8	30.8	42.5	42.5
34.5	26.6	21.6	18.8	18.5	21.6	21.6	16.1	16.5	21.6	21.6	9.9	9.9
325	285	270	243	211	206	95	80	56	47	20	3	0
350	300	WE			WE	WE			WE	WE		
19.8	26.8	30.8	32.6	34.4	30.8	30.8	35.1	34.2	30.9	30.9	40.9	40.9
32.6	25.6	21.6	19.8	18.0	21.6	21.6	17.3	18.2	21.5	21.5	11.5	11.5
330	290	285	260	217	206	90	80	56	50	18	6	0
350	315	WE			WE	WE			WE	WE		
46.9	30.8	30.8	36.6	35.1	30.8	30.8	33.3	33.4	30.8	30.8	40.4	40.8
5.5	21.6	21.6	15.8	17.3	21.6	21.6	19.1	19.0	21.6	21.6	12.0	11.6
350	335	286	276	227	207	90	85	60	48	21	10	0
	WE	WE			WE	WE			WE	WE		
47.3	40.4	40.0	39.4	36.1	33.5	30.8	25.8	30.8	34.4	33.8	42.9	43.4
5.1	12.0	12.4	13.0	16.3	18.9	21.6	26.6	21.6	18.0	18.6	9.5	9.0
350	340	287	270	242	154	150	84	64	60	21	3	0
						WE	140	WE				

RED. WHB

Mission Valley Sand Pit
X-Sects (Cont'd)

14+65		52.39	4.3	48.1
15+00			3.5	48.9
15+70	P	3.21	53.30	2.30	50.09
15+87			12.6	40.7
16+00			13.4	39.9
16+30			12.6	40.7
16+81			12.1	41.2
16+95			4.6	48.7
17+00			3.7	49.6
17+06			5.8	47.5

	47.3	46.4	46.0	39.4	36.5	33.8	30.8	25.8	30.8	34.4	34.3	47.8	48.1	
	5.1	12.0	12.4	13.0	15.9	18.6	21.6	26.6	21.6	18.0	18.1	4.6	4.3	
	350	340	287	270	242	152	150 WE	84 140	64 WE	60	30	4	0	
48.3	44.4	42.0	47.1 ~~41.1~~	40.1	43.9	41.6	43.6	34.9	34.4	30.8	25.8	30.8	33.8	34.1	48.9	48.9
41	80	103	5.3	7.3	8.5	10.8	8.8	17.5	18.0	21.6	26.6	21.6	18.6	18.3	3.5	3.5
350	320	320	315	310	287	243	240	220	175	170 WE	83 150	63 WE	60	30	3	0
	30.8	48.8	48.8	33.8	30.8	28.8	30.8	50.1	50.1					
	22.5	4.5	4.5	19.5	22.5	24.5	22.5	3.2	3.2					
	350 WE	320	220	210	85 WE	71 81	65 WE	3	0					
	30.8	30.8	50.2	48.8	33.8	33.8	30.7	30.7	40.7	40.7				
	22.5	22.5	3.1	4.5	19.5	19.5	22.6	22.6	12.6	12.6				
	350 WE	317 WE	300	221	210	54	50 WE	20 WE	6	0				
	30.8	30.8	50.2	48.8	30.8	30.8	34.8	33.8	30.8	26.8	30.8	39.9	39.9	
	22.5	22.5	3.1	4.5	22.5	22.5	19.0	19.5	22.5	26.5	22.5	13.4	13.4	
	350 WE	320 WE	297	222	216 WE	213 WE	210	63	61 WE	20 55	15 WE	7	0	
	48.8	30.8	29.6	30.8	43.3	30.8	28.8	30.8	34.8	30.8	26.2	30.8	40.7	40.7
	4.5	22.5	23.7	22.5	10.0	22.5	24.5	22.5	18.5	22.5	27.1	22.5	12.6	12.6
	350	290 WE	244 285	239 WE	225	211 WE	139 208	136 WE	93 133	90 WE	22 82	14 WE	5	0
	49.1	49.2	30.8	31.2	26.2	30.8	40.8	41.2						
	4.2	4.1	22.5	22.1	27.1	22.5	12.5	12.1						
	350	290	275 WE	150 250	32	22 WE	5	0						
	49.2	49.0	30.8	27.8	30.8	42.3	48.7							
	4.1	4.3	22.5	25.5	22.5	11.0	4.6							
	350	320	135 275	30 130	23 WE	15	0							
	49.2	30.8	29.8	27.8	30.8	43.6	49.6							
	4.1	22.5	23.5	25.5	22.5	9.7	3.7							
	350	320 WE	135 235	30 130	25 WE	12	0							
	49.2	32.8	30.8	29.2	30.8	47.5	47.5							
	4.1	20.5	22.5	24.1	22.5	5.8	5.8							
	350	310	150 250	35 135	28 WE	8	0							

RED. WHB

5/1/58

Mission Valley Sand Pit
X-Sects Cont'd

		53.30			
P	2.92	52.77	3.45	49.85	
CK BM			1.47	51.30 = 51.26	Conc Mon City Engr's

See pg. 63.

Castana

0+40 Begin Work 71.0

0+62.5 69.2

0+65 FH

1+00 70.0

+50 69.7

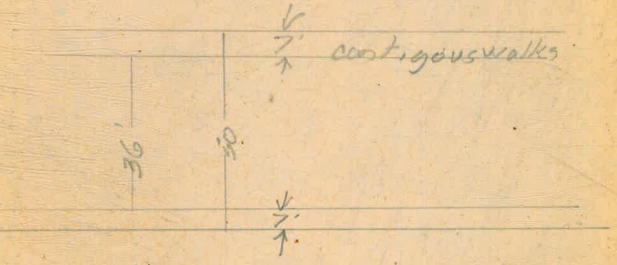
2+00 69.5

+50 69.4

3+00 69.8

+05 69.8

End of Work



PIPE
TAKE

46.25
534

ONING.

	.9	
0	1.35	0
0	2.85	1
0	4.35	2
0	5.85	3
0	7.35	4
0	8.85	5
0	10.35	6
0	11.85	7
0	13.35	8
0	14.85	9
	16.35	10
	17.85	11
	19.35	12
	20.85	13
	22.35	14
	23.85	15
	25.35	16
	26.85	17
	28.35	18
	29.85	19
	31.35	20
	32.85	21
	34.35	22
	35.85	23
	37.35	24
	38.85	25
	40.35	26
	41.85	27
	43.35	28
	44.85	29
	46.35	30
	47.85	31
	49.35	32
	50.85	33
	52.35	34
	53.85	35
	55.35	36
	56.85	37
	58.35	38
	59.85	39
	61.35	40
	62.85	41
	64.35	42
	65.85	43
	67.35	44
	68.85	45
	70.35	46
	71.85	47
	73.35	48
	74.85	49
	76.35	50

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

B.P.
273.20
272.88 6 Vermett & Fed. Blvd. So. Edge Part.
.31 F.B. 1652-60

50.56
18.5
32.1

50.6 H.I.

67.04
11.68
78.72
83
77.89

48.78
5.34
54.12
50.26
78.72
3.86
76.4

13.1
5.8
18.9
6.6
12.3

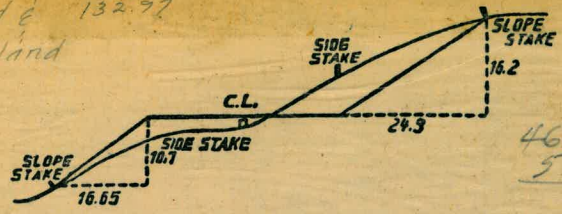
13.1
6.6
6.5

447

49.6

89 52 10
90 02 50
179 55 30"

Euclid & Groveland 132.97



46.25
5 35

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	71.20	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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