

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.

30th + Market
NE Cor USGS plus
144.95
30th + E
NW Cor BP 187.65

23 278 86
3 00.93
26 + 79.79
30
207 49.79

30th + F SW Cor
RR Sp. in Pole
167.32

33 + Market
SE BP Top Wall
40.70

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

11 + 56 = 950
8960
1812
7178

478.05
662.46
-08
662.46
479.46

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	.89	.99	1.09	1.20	1.31	1.42	1.54		
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	2.12	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		

INDEX

Page

Proposed Pl. G.st 30th to 32 1-5 ✓

" " Harding St 37th to 38 6-8 ✓

" " "Tst 37th to 38th 9-11 ✓

" " 2st 37th to 38th 12-14 ✓

" " Birchst Biegel to 36th 15-17 ✓

" " Raabacl ^{to Allegheny} Winchester 18-24 ✓

" " Sea Breeze ^{to Cumberland} Winchester 26-26 ✓

" " Jst 26th to 27th 27-29 ✓

" " 35th Jst to Lst 30-31 ✓

" " Jst 36th to 35th 32-34 ✓

" " 35th Jst to Lst ^{proble} ^{alice} ³⁵ ✓

" " Tompkins 35th to Francis 36th ^{alice} ✓

" " Francis Tompkins to K ✓

" " Kst Francis to 35th 38th ^{alice} ✓

Proposed Water, PARKER Pl. & EVERTS St, ^{FANUEL TO} PAC. BEACH DR 37-40 ✓

" " KENDALL ST, OLIVER to GRAND 41-45 ✓

LOCATION G.C.1 in BOSTON ST, 32nd Ely to TERMINUS 46 ✓

STAKES FOR 6" WATER TOMPKINS 35TH-FRANCIS ^{alice} ⁴⁸ ✓

TOOLEY ST, STRS & GRAD for 8" A.C. WATER 49-53 ✓

OVER

Proposed P.l.v. Drake St. Imperial to Imperial 56-58 ✓

Tompkins St & Francis St Cont'd from pp. 49 60-61 ✓

Jth St 36th to 35th, STKS & Grids 6" AC NAT 62 ✓

35th St Jth St Lth St " " " " " " 63-64 ✓

Drake St. Rev. & Profile

65
alice

Proposed Pl.
 3rd St. 30th to 32nd

	9.90	154.85		144.95
	9.75	162.80	1.80	153.05
	1.26	161.53	2.53	160.27
0+00			4.82	156.7
+50			4.02	157.5
+60			4.19	157.3
1+00			9.7	151.8
	1.86	150.84	12.55	148.98
+50			5.1	145.7
2+00			8.7	142.1
+50			9.9	140.9
3+00			10.5	140.3
+50			11.2	139.6
+90			11.28	133.9 +5.7 to Flow
4+00			11.9	138.9
+50			12.7	138.1
	2.82	140.84	12.82	138.02
5+00			3.6	137.2
+50			4.3	136.5
6+00			4.9	135.9

West
 Martell
 Varonakis

6 Nov 52

Warm

BM USGS Plug NE Cor 30th + Market

Top Fire Hyd NE Cor 30th + B

West Line of 30th St

east prop line 30th St
 end of heavy oil on 30th Begin 1/2" road oil

Top South edge sewer MH 10° LT

6.00
5.80
20

3

0+50		140.84	5.7	135.1
6+91			5.30	6.2 To Flow
7+00			5.50	129.3
+50			6.5	134.3
8+00			7.0	133.8
+50			10.8	130.0
+75	1.28	129.56	13.06	127.78
+75			3.5	126.1
9+00			7.8	121.8
+25			12.0	117.6
	1.66	119.62	12.60	116.96
+50			5.3	113.3
+75			9.5	109.1
	2.17	109.16	11.63	106.99
10+00			4.3	104.9
+50			10.3	98.9
	1.41	97.73	12.84	96.32
11+00			2.5	95.2
+34			4.50	84.2
+50			5.5	92.2

2nd

Top south edge sewer MH

Top south edge sewer MH 10^E Lt

12+00 97.73 9.5 88.2

+50 12.9 84.8

2.47 87.35 12.85 84.88

13+00 6.3 81.1

+24 7.60 79.8

+50 7.9 79.5

+81²⁷ 8.4 79.0

4.34 85.86 5.83 81.52

4.65 81.21 =

3

edge oil 32nd sk

edge oil east line 32nd

Top Fire Hyd S.E. Cor 32nd + G

81.21 BM SW BP 32nd + Market

7+21 ¹³

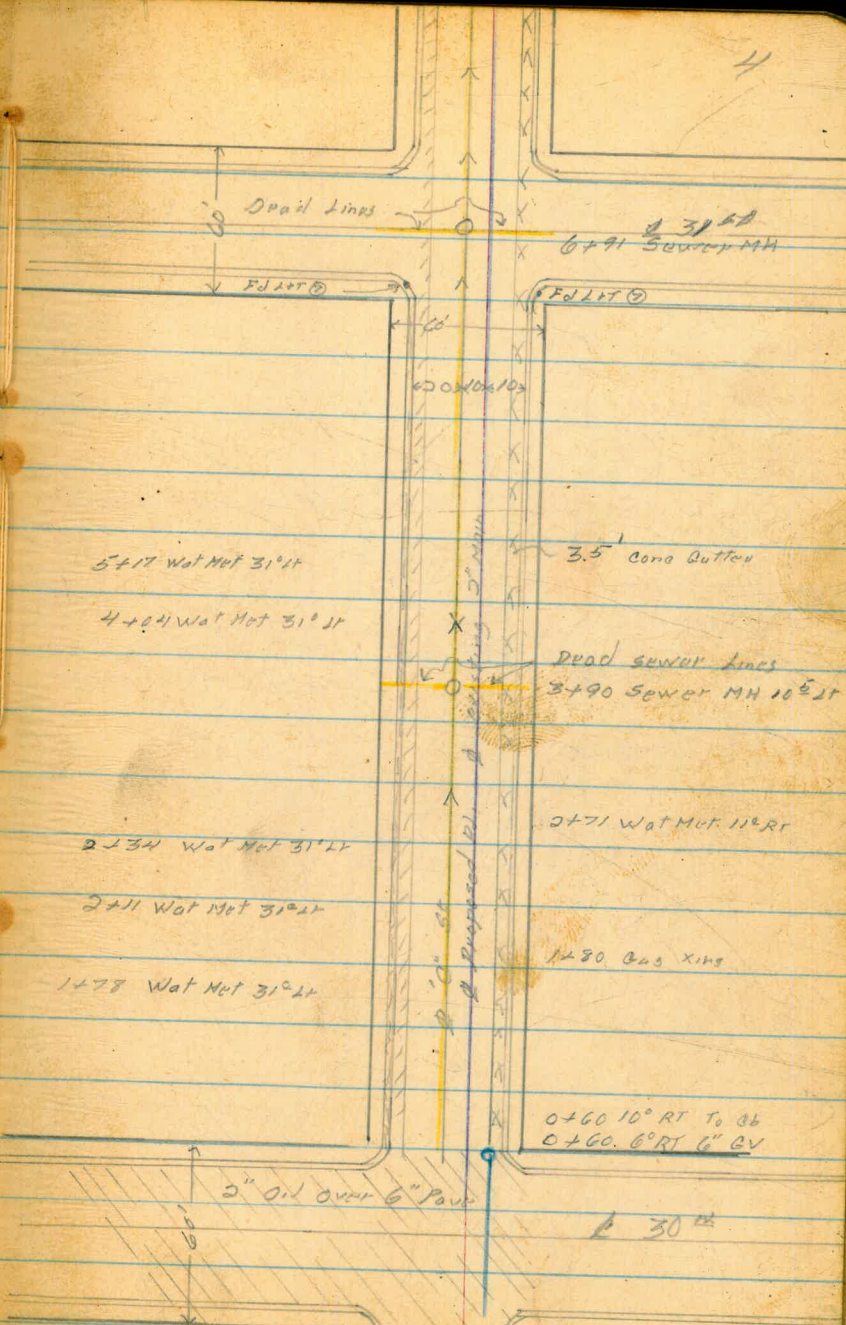
60

East Prop Line

6+61 ¹³

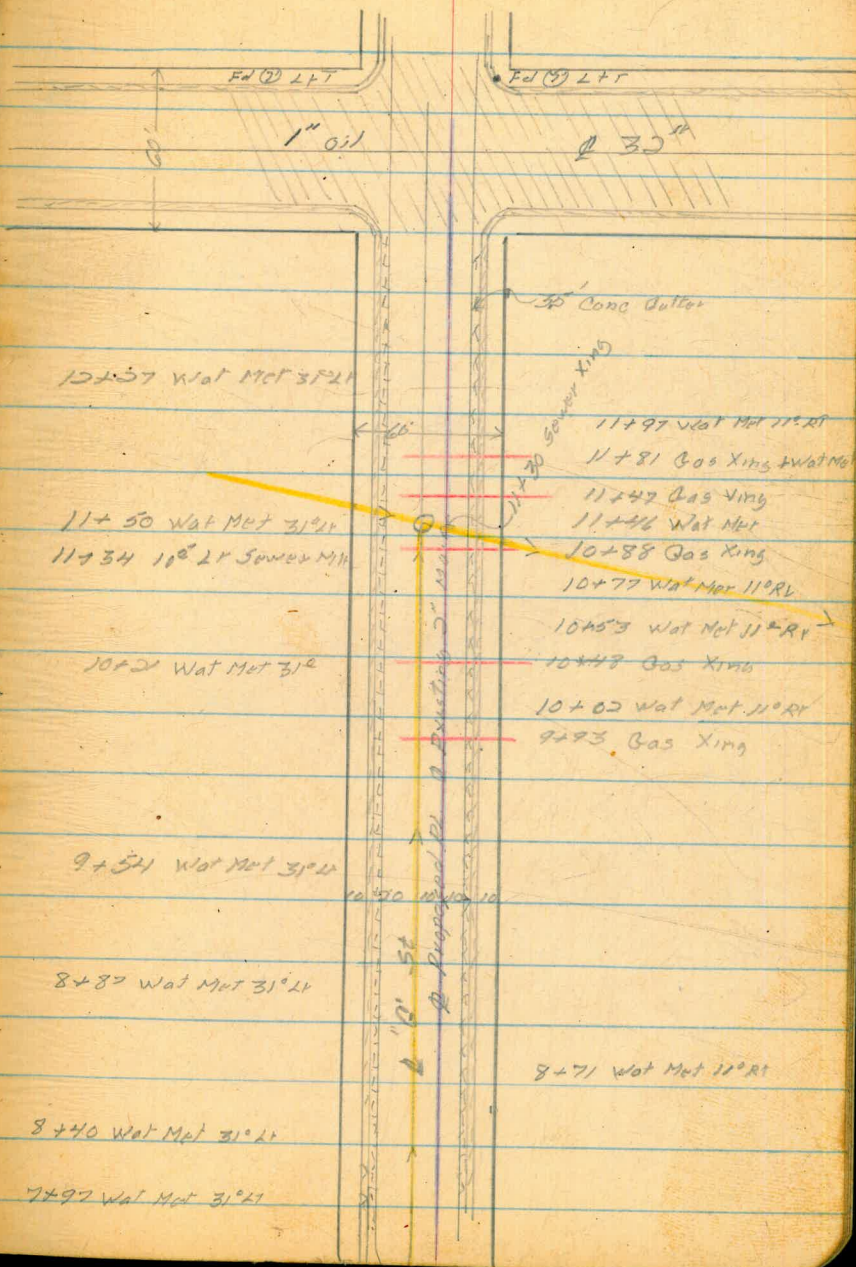
West Prop Line 32'

6" 5' covered by light ¹/₂" oil



0+00

West prop Line 30'



Proposed P1 (7) St
Harding St 37th to 38th

West
Martell
Varonfakis,

7 Nov 53

Pool 6

	0.09	63.56		63.47
	13.03	76.36	0.23	63.33
	9.91	84.80	1.50	74.80
0+00			4.8	80.00
+12			5.25	79.55
+25			5.8	79.00
+30			5.50	+5.4 To Flow Line 79.50
+50			5.2	79.60
1+00			3.2	81.6
+50			0.40	84.4
	5.72	90.24	0.28	84.52
2+00			3.5	86.7
+50			3.0	87.2
3+00			5.2	85.0
+50			6.9	83.3
+62			7.14	83.1
4+00			8.8	81.4
+38			13.0	77.2
+50			10.2	80.0
+59			12.4	77.8

BM Top Fire Hyd SE cor 37th + Ocean View

65

West Prop Line 37th

Top Ob

Cutten

Top south edge Sewer MH

Top south Sewer MH 7° AT

Flow Line 12" Storm Drain 6° AT

Flow Line 12" Storm Drain 18° AT

5+00		90.24	9.0	81.2
+50			5.2	85.0
6+	11.58	101.68	0.14	90.10
6+00			11.3	90.4
+50			5.8	95.9
6+60			5.1	96.6
6+70			4.7	97.0
+89			3.98	97.70 92.3 15.5 To Flow
+96			5.7	96.0
7+00			3.86	97.8
7+20			2.4	99.3
	2.90	96.11	8.47	93.21
	1.68	85.79	12.00	94.11
	1.45	80.41	6.83	78.96
	3.41	71.09	12.53	67.88
			7.92	63.37 = 63.47

edge oil 38th

Top CV Cover 40° RT

Top South Sewer MH 75° LT

Top Stem 8" CV 20° RT

East prop line 38th

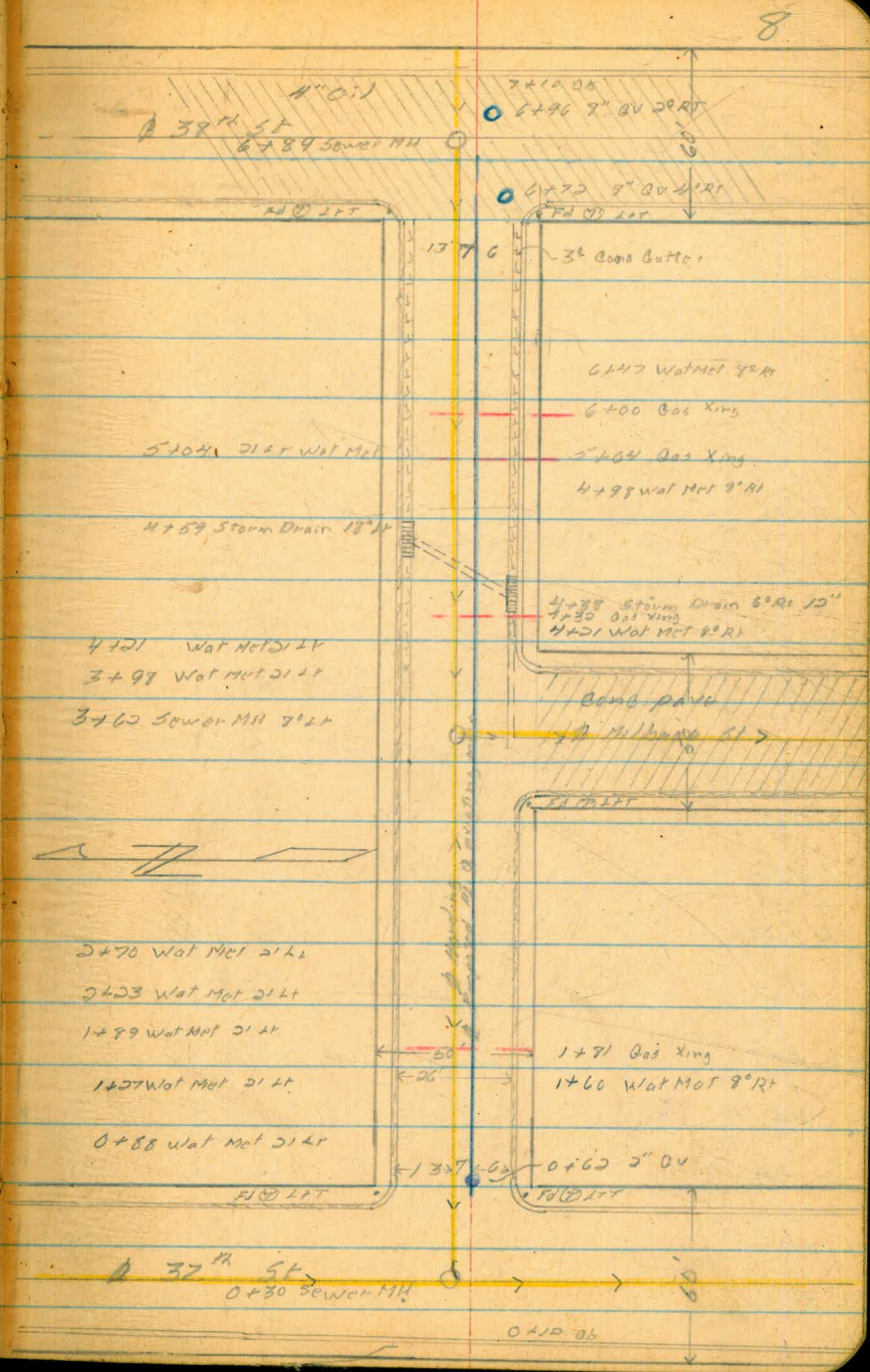
Q Pl. (7) Harding St

7+20⁰²

East Prop Line 38th

0+00

West Prop Line 37th St



Q Pl. Profile "J" St
37th to 38th

West
Mortell
Varonfakis

7 Nov 52

9

Sta.	ELEV.	
	12.14	83.28
		71.14
0+00		13.2
		70.1
+10		13.60
		69.7
+10 ²		13.9
		69.4
+50		12.1
		71.2
1+00		9.5
		73.8
+50		6.0
		77.3
2+00		3.0
		80.3
+50		0.8
		82.5
	10.94	93.67
		0.55
		82.73
3+00		9.6
		84.1
+50		8.4
		85.3
4+00		7.3
		86.4
+50		6.1
		87.6
5+00		5.1
		88.6
+50		3.9
		89.8
6+00		2.9
		90.8
+50		2.0
		91.7
06+60		1.80
		91.9
		91.87

BM BP NW Cor 37th + T

on side walk prop line

Top curb

Gutter

edge cone pave

7400 93.67 1.38 92.3

7419¹⁵ 1.12 92.6

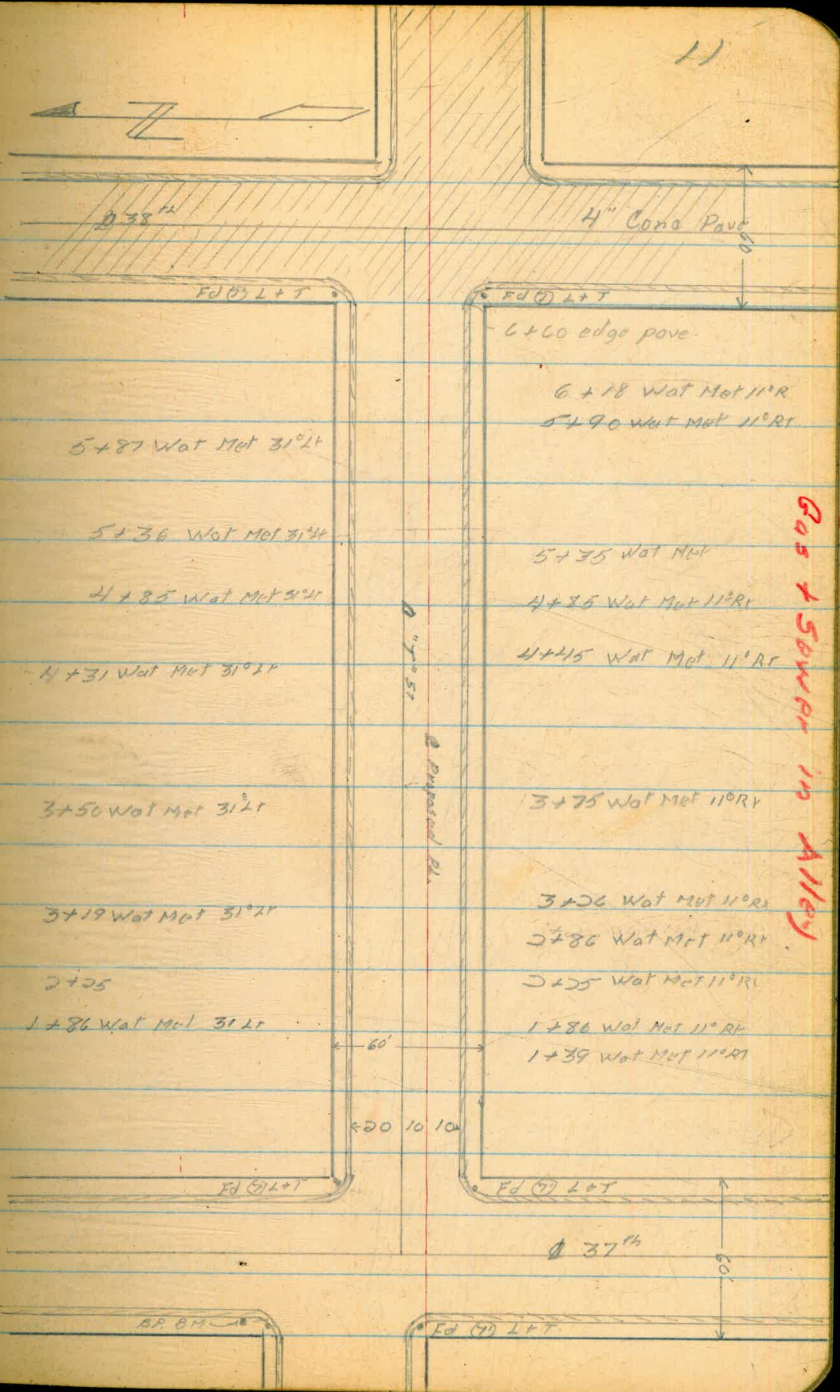
2.26 85.00 10.93 82.74

1016 82.13 13.03 71.97

10.97 71.16 = 71.14

7+19⁷⁵

East Prop Line 38th



0+00

West Prop Line 37th

Proposed Pt.
 2nd St 37th to 38th

West
 martell
 Yoramfakis

10 Nov 53

12

	7.15	18.21		11.06
	13.06	26.87	4.40	13.81
0+00			0.40	26.5
+50			1.3	25.6
	10.87	36.13	1.61	25.26
1+00			9.1	27.0
+50			9.5	26.6
2+00			11.8	24.3
+50			11.4	24.7
3+00			7.1	29.0
+50			0.8	35.3
	11.52	46.66	0.99	35.14
4+00			5.9	40.8
+50			2.9	43.8
5+00			8.5	38.2
+50			12.2	34.5
6+00			10.6	36.1
+50			9.60	37.1
+81			10.5	36.2
7+00			9.64	37.1

BM SE BP cor 38th & Alpha

West Prop Line 37th

14⁰
 10RT

edge oil

7+20 ¹⁵	46.66	10.1	36.6
--------------------	-------	------	------

1.54	38.26	9.94	36.72
------	-------	------	-------

2.20	28.18	12.30	25.96
------	-------	-------	-------

3.31	19.34	12.15	16.03
------	-------	-------	-------

	8.20	11.14	= 11.06
--	------	-------	---------

East Prop Line 38th

Q PL Profile
 Birch St Regal to 36th

Wust
 Martell
 Varanfakis

12 Nov 52
 Warm

15

TBM 5" Spike in Pole Beta + Birch

West prop Line Right
 edge oil pore
 east edge oil

	5.59	13.04		7.45
	9.75	22.22	0.57	12.47
0+00			3.6	18.6
+15			3.95	18.3
+45			4.75	17.5
0+50			5.1	17.1
1+00			6.6	15.6
+50			7.5	14.7
2+00			8.6	13.6
+50			9.2	13.0
3+00			10.1	12.1
+50			8.3	13.9
4+00			5.9	16.3
+50			3.1	19.1
5+00			2.2	20.1
+50			3.2	19.0
6+00			6.9	15.3
+50			9.5	12.7
7+00			11.7	10.5
	1.86	12.22	11.86	10.36

8.9 10.5
 10.24 10.31
 8.2 10.0
 10.24 10.31

7408 ^E	13.22	1.96	+1.4 +11.7	To Top of 24" Sewer 10 ^E RT
+50		3.8	8.4	
8+00		4.9	1.3	
+50		5.6	6.6	
9+00		6.0	6.2	
+50		10.4	1.8	Bottom of Drainage Ditch
+78		8.0	4.2	
10+00		7.6	4.6	
+50		7.3	4.9	
+74		6.31	5.91	Top Sewer 111 10 ^E RT
11+00		6.3	5.9	
+50		6.2	6.0	
+56		6.4	5.8	36 th St
12+00		6.9	5.3	
		4.78	7.46 = 7.15	

95
10 RT

Top Sewer 111 10^E RT

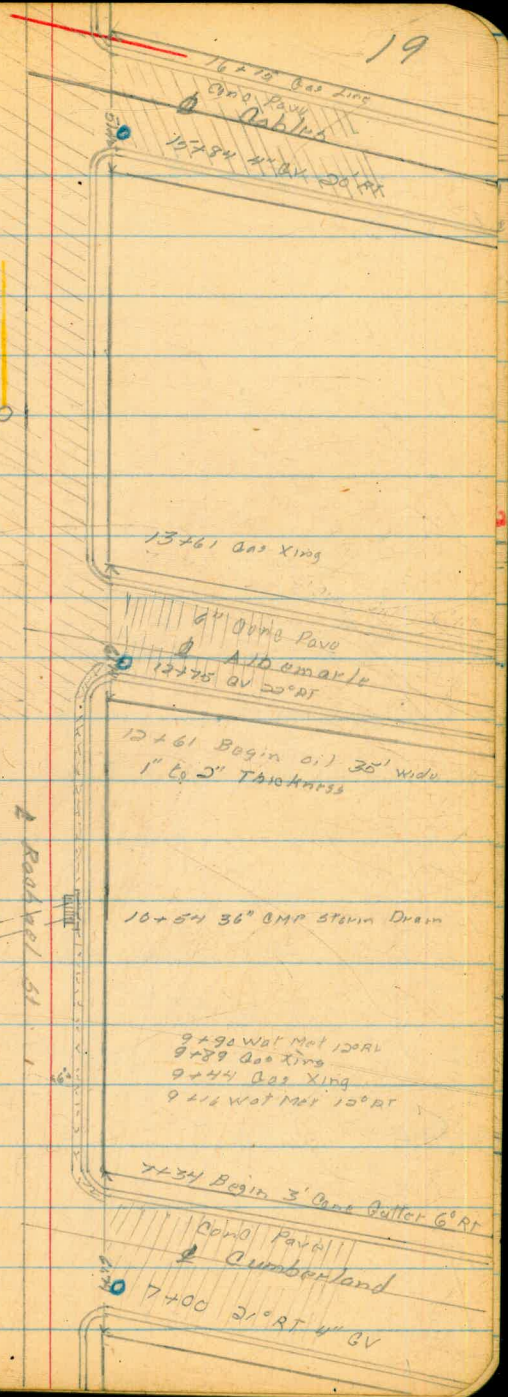
9.8
10 RT

82
10 RT

14+31 Sewer MH
16" DI

14+31 Sewer MH
16" DI

10+26 31" DI and
of 36" CMP storm drain



16+78 Gas Line
Cable
Cables

10+78 36" STORM DRAIN

13+61 Gas Xing

6" Open Pav
A10 emar/le
12+75 4" 20" RT

12+61 Begin oil 36" wide
1" to 2" thickness

10+54 36" CMP Storm Drain

9+92 Wat Met 12" RL
9+89 Gas Xing
9+44 Gas Xing
9+18 Wat Met 12" RT

7+34 Begin 3' Open Gutter 6" RT

Open Pav
Cumberland

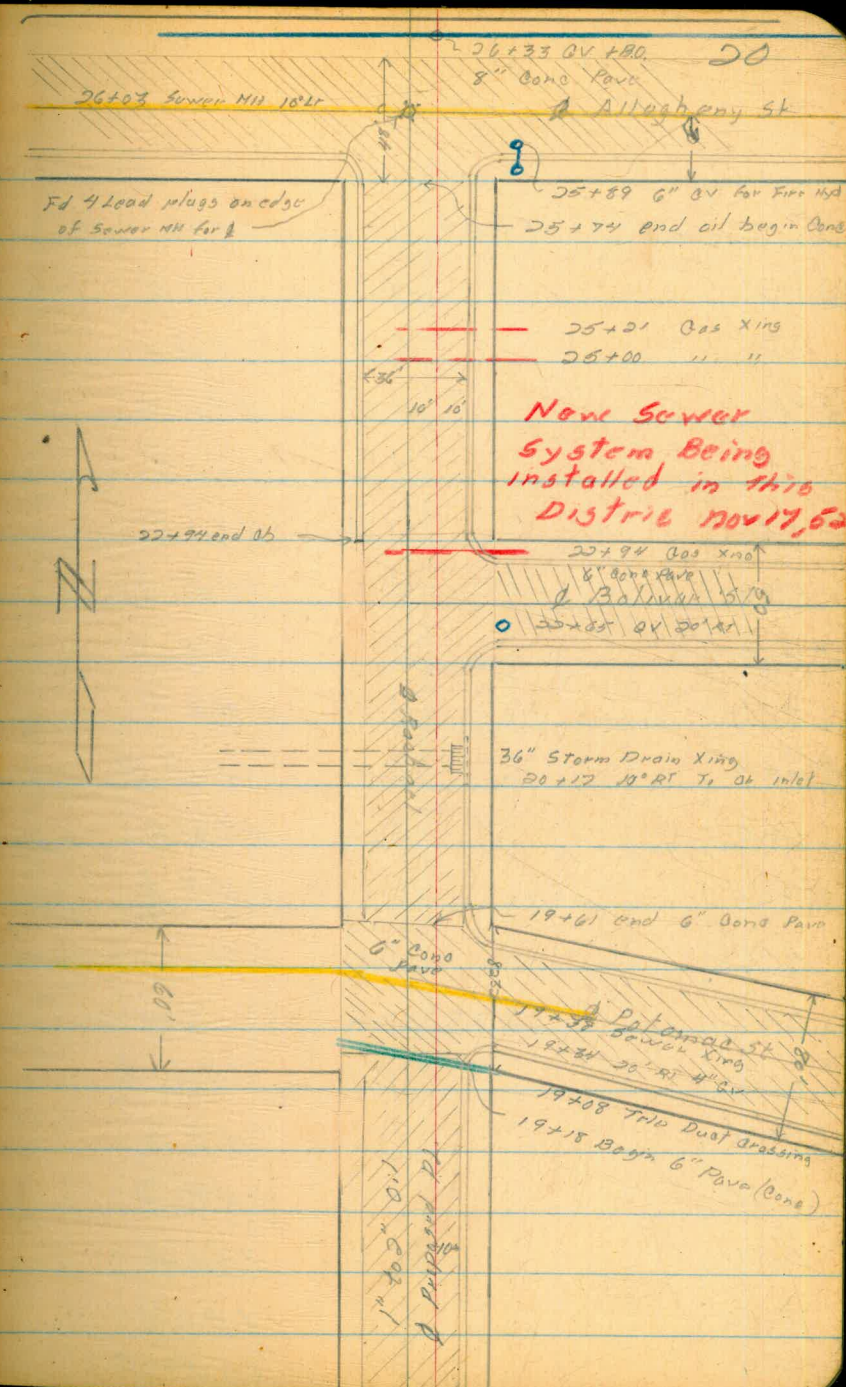
7+00 31" RT 4" GV

2 Roadway 51

26+33

30' North of Allegheny St

74
117
122



Q.P.L. Profile
 Raachael St
 Winchester to Allegheny St

	13.73	152.59	139.86
0+00		1.1	151.5
+50		6.4	146.2
1+00		9.6	143.0
+50		11.6	141.0
2+00		11.5	141.1
+50		9.9	142.7
3+00		8.1	144.5
+50		6.6	146.0
4+00		6.8	145.8
+50		8.0	144.6
5+00		9.0	143.6
+18 [±]		12.9	To Flow Line
		9.8	Top of
+18 [±]		16.0	To Flow Line
+50		8.8	143.8
6+00		7.0	145.6
+50		4.0	148.6
7+00		1.2	151.4
+50		0.9	151.7
8+00		3.1	149.5

West
 Martell
 Varon

21

13 Nov 52

BM on top cent Drain and Hdwall east side of
 Raachael betw Cumberland & Albemarle

South prop line Prolongation Winchester St

24" CMP 139.7
 Grate of curb inlet 9° RT
 24" CMP 24' LT 136.6

8+50	152.59	6.9	145.7
9+00		10.1	142.5
+50		11.8	140.8
10+00		12.7	139.9
+50		12.9	139.7
+54		13.6	139.0
10+26		18.6	134.0
11+00		12.0	140.6
+50		9.7	142.9
12+00		6.5	146.6
+50		3.0	149.6
+62		2.19	150.4
1	17.68	0.75	151.84
13+00		12.1	152.4
+50		9.5	155.0
14+00		5.6	158.9
+31"		2.94	158.7
+50		1.7	162.8
8.62	172.71	0.43	164.09

36" CMP 135.0

10.4 RT

To Flow line 36" CMP Storm Drain 21° Lt

edge oil Albemarle St

Top Sewer MH 16° Lt

15+00	172.71	6.8	165.9
+50		5.3	167.4
16+00		5.0	167.7
+50		5.2	167.5
17+00		5.7	167.0
+50		6.3	166.4
18+00		7.2	165.5
+50		8.7	164.0
19+00		10.5	162.2
+50		12.3	160.4
	3.14	162.97	12.88
20+00		4.3	156.7
		15.6	147.4
+17		8.65	154.3
+50		7.2	155.8
21+00		3.5	159.5
	11.69	174.41	0.25
+50		10.2	164.2
22+00		6.0	168.4
+50		3.3	171.1

To Flow Line 36" CMP Storm Drain
110 RT Top Grate @ inlet storm Drain

23+00	174.41	1.6	172.8
+50		0.5	173.9
8.83	182.62	0.62	173.79

24+00		7.4	175.2
+50		6.0	176.6

25+00		4.6	178.0
+50		3.4	179.2

26+00		3.0	179.6
+03		3.11	170.9 + 8.6 To Flow

+23		3.50	179.1
-----	--	------	-------

26+33			
-------	--	--	--

2.31	180.31
------	--------

= 180.25 BM BP SE cor Allegheny
+ Rochael Ave

Top sewer MH 10' E of Allegheny
edge pavement

Top QV

Q PL Profile
Sea Breeze Winchester
to Cumberland

West
Martell
Varan Forks

244.12 25
18 Nov 52
Worm

7.25
1.75
11.40
9.50
6.25
1.25

	8.55	252.67	244.12
0+00		5.4	
0+40		10.40	Top 8" QV 35° 24'
+50		8.3	
1+00		11.6	
+50		11.2	
2+00		10.7	
+50		10.0	
3+00		8.7	
+50		6.6	
4+00		4.8	
+50		3.1	
5+00		1.6	
+50		1.4	
6+00		2.6	
+50		6.4	
+71		7.8	
+79		9.8	
7+00		10.8	
+20 ⁵⁰		12.3	
		10.67	242.00 - 241.95

BM NW Lead Plug Winchester + Sea Breeze

6.4 6.3
10.21 2.21

12.5 1.20
10.21 2.21

11.7 11.5
10.21 2.21

9.4 7.9
10.21 10.81



2.3 0.0
10.21 10.81

2.2 0.0
10.21 10.81

5.1 2.8
10.21 8.21 Top Bank

9.9 6.6
12.21 9.21 Top Bank

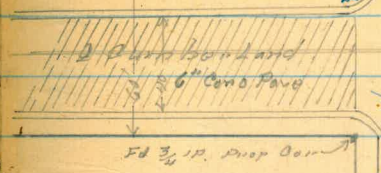
12.4 10.8
10.21 10.81

BM BP SW Cor Cumberland + Sea Breeze

7+20⁵⁰

North Prop Line Cumberland

in East Side of St
7+12 2 Wat Mts For Property



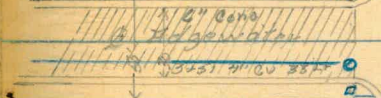
Fd 3/4" Prop Conn

6+70 Guy Pole 6° RT
6+71 1" Wat Mt
7° LT

10' 15"
Prop Conn

5+50 Gas Xing

3+77 2 Wat Mts for opposite side of St



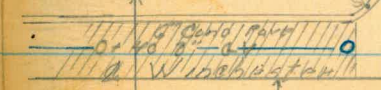
3+47 Motor for opposite side of St

3+10 Gas Xing

Seaboard
Proposed Pl



Fd 1/2" Ends (F) in ab



60'

30'

50'

0+09 2 Wat Mts 10° 13° RT

0+00

South Prop Line Winchester

Q Pl Profile

J st

26th to 27th

West
Martell
Varenfokis

19 Nov 52

27

	1.83	155.41		153.58
	1.82	145.83	11.40	144.01
0+00			9.02	136.81
+50			6.10	139.7
+60 4			5.49	140.35
0+88 ³⁰			5.9	139.9
1+00			5.9	139.9
+50			4.5	141.3
2+00			3.4	142.4
+50			2.0	143.8
	10.88	155.96	0.85	144.98
3+00			10.6	145.3
+50			9.2	146.7
4+00			8.1	147.8
+50			6.9	149.0
5+00			5.7	150.2
+16 ²⁷ EA			5.6	150.3
+39 ²⁵ 4			5.5	150.4
+50			5.9	150.0

BM SW in Ob 26th + Market

West prop line 26th edge concrete

edge pavement east prop line 26th

6+00	155.86	7.4	148.5
+50		8.9	147.0
7+00		11.1	144.8
	9.69	152.80	1275 143.11
+50		10.86	142.0 141.94
+50 ⁶		11.84	141.0 140.96
8+00		11.57	141.2
+10 ⁶		10.6	142.2
	2.10	142.24	12.64 140.16
		11.30	130.96 = 152.11

edge pave

Top stem 6" GV 10 1+

Water

East Prop line 27th St

NE Cor 27th + Market

6+97.10⁶⁶ East Prop Line 27th St

7+

8+

5+39⁷⁵ 41° 05' RT

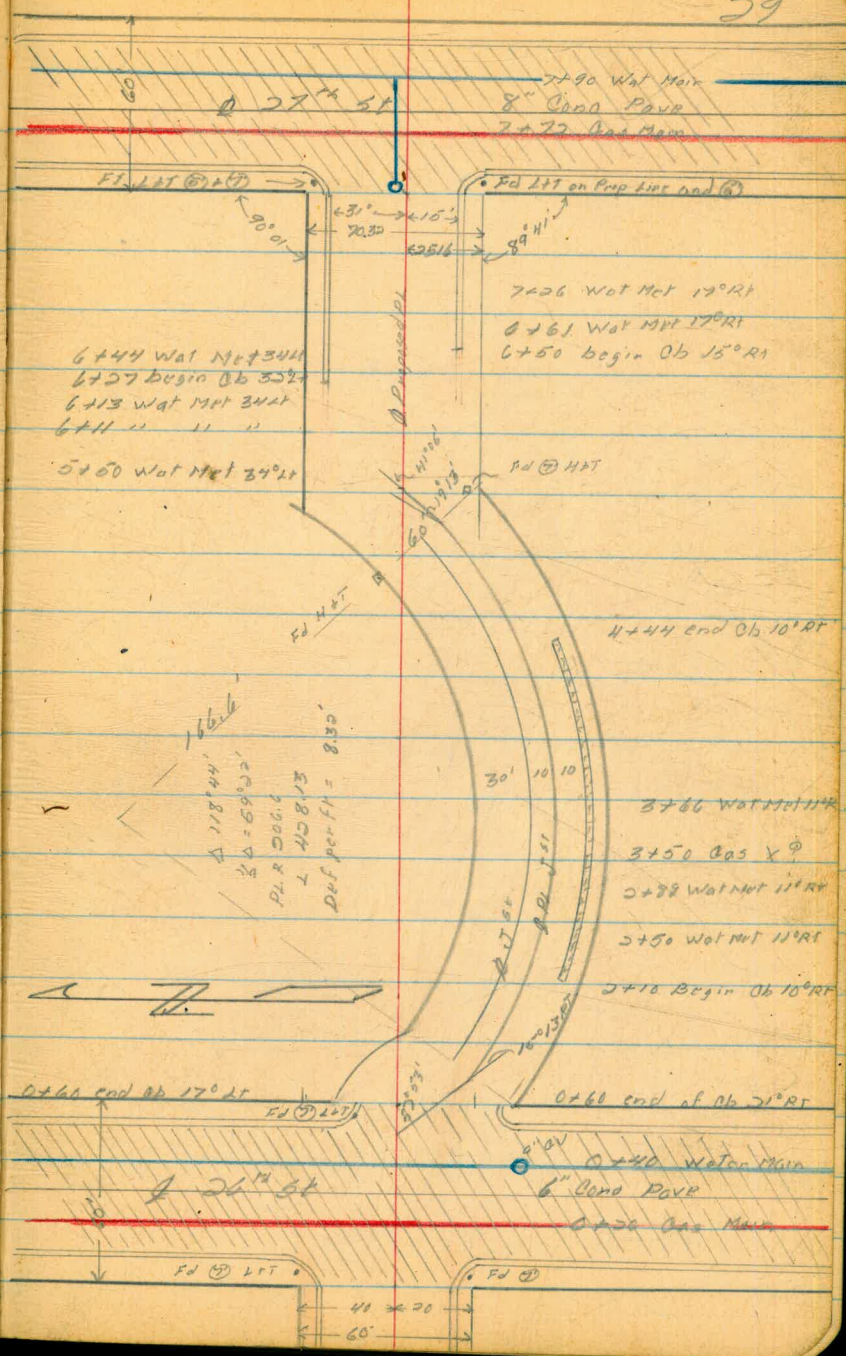
5+16²⁷ FO 19° 13' RT

$$\Delta = 118^{\circ} 44'$$
$$P.L.R = 206.6'$$
$$L = 428.13$$

0+98.14 BC 15° 13' RT To Tangent

0+60 52° 53' RT

0+00 West Prop Line 26th St



CP 35th St

J to L⁵⁴

(5) J to K (7) K to L

	12.79	97.71		84.92
	12.13	109.68	0.16	97.55
	5.22	114.10	0.80	108.88
0+00			5.3	
0+50			8.3	
2+80			8.59	105.51
1+00			10.4	
+50			11.3	
2+00			9.8	
+50			9.8	
3+00			11.1	
+50			12.5	
	1.48	103.21	12.37	101.73
3+80			2.9	
4+00			4.0	
+165			5.41	
+3103			7.0	
+50			9.0	
	1.70	99.20	12.76	90.45
5+00			3.3	
+45			8.4	
+55			10.7	
6+00			12.3	
+39				
6+50			13.1	14.16
+57 ⁶⁰			13.7	
	6.80	87.66	11.29	80.86
			2.71	84.95

SEE

PG. 35

FOR

GROUND

PIPE

LINE

97.80 Rim
98.05 E
+9.75 To Flow line

West
Marshall
Varonakis

21 Nov 52

30

BM SW BR Pardee 7⁵¹

Turn on Reek

North Prop line J⁵¹

= 6 + 65⁵² J⁵¹
Top 24 IP Prop Con S.E. Cor 35th & J⁵¹ 10⁰²

8.7 10.3
4.0 4.0

103.21
5.41
97.80

Top East edge Sower MH 10RT

Trailer on Line

Top stem 2" BV 5² L⁵¹

12.93
1.02
12.91

South Prop line L⁵¹

Q Pl. Profile
J⁵¹ 36^h to 35^h

	7.58	116.46	108.88
0+00		10.6	103.9
+14		12.98	103.5
0+30	3.25	107.19	103.94
+50		4.1	103.1
+61		5.3	101.9
+79		5.2	102.0
1+00		9.0	98.2
1+08		11.9	95.3
1+08		13.1	94.1
+50		6.1	101.1
2+00		0.7	106.5
	9.54	116.19	0.54
+50		6.4	109.8
3+00		5.6	110.6
+50		5.0	111.2
4+00		5.0	111.2
+50		5.0	111.2
5+00		3.8	112.4

West
Martell
Varonakis

21 Nov 52 32

TBM on Rack Page 30

East Prop Line 36^h st.

edge 0.1

0 36^h

edge 0.1

7.9
10 R

6.6 6.4
17.2 78.2
9.0
10R

Flow Line 18" Cement Pipe 1° 21'

" " " " " 36° 24'

5.3
5.4
6.9
10Rr

0.8
4° Rr 2.0
10R

116.19

5+50	4.1	112.1
6+00	6.2	110.0
+50	9.2	107.0
+65 ⁵¹	10.5	105.7
+85 ⁵¹	10.4	105.8
	10.72	105.47 =

"T"

South Prop. line 35th St105.51 TBM on ~~35~~ IP prop over Sec page 30

6788⁵⁷

6795⁵⁷

6768⁵⁷

6765⁵⁷

(West)

South Line 35th St

J⁵⁷ = 0750 35th St

6785.6

22.4

7408.0

6777

30

7407.

5783 Wat Met 19th St

6764 Gas Xing

3735 Wat Met 17th St

3735 Gas Xing

2725 Gas Xing

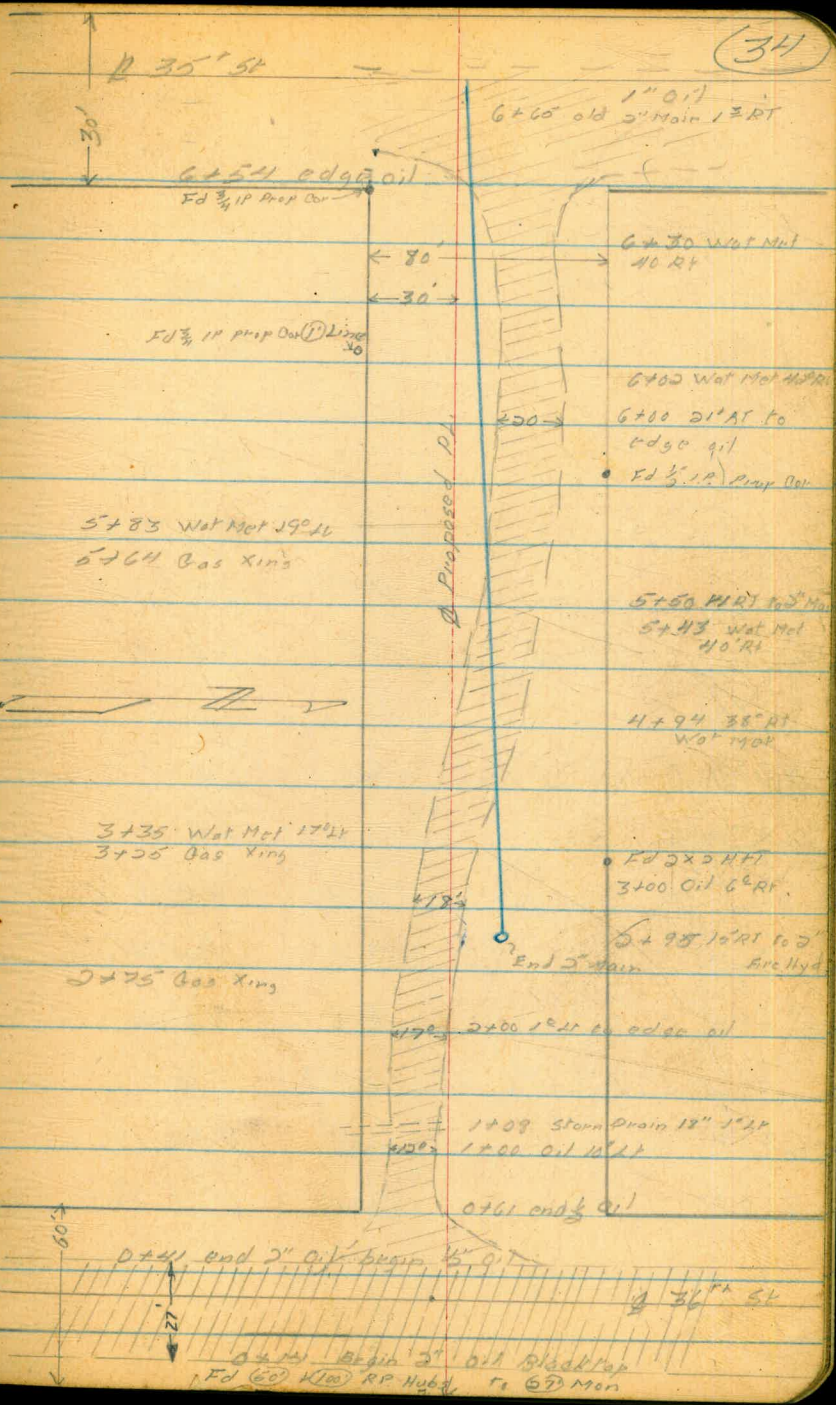
DRAWING
DEW

SEE

0700

East Line 36th St

34



60'
27'

0741 end 2" oil beam 15' oil

0741 Begin 2" Oil Blacktop
Fd (60) W/100 RP Hub, to 69 Men

35th St 5th to 2

New Profile 10' E. of West.

Line of 30' St - See page 30

Sta	+	HI	-	See page 30
		3.27	108.78	105.51
0+00			0.30	108.5
+50			3.2	105.6
1+00			5.2	103.6
+50			6.1	102.7
2+00			5.5	103.3
+50			4.9	103.9
3+00			5.9	102.9
+50			7.8	101.0
4+00	X		10.1	98.7
+50			12.7	96.1
		2.12	98.00	12.90
				95.88
+50			3.7	94.3
5+00			9.2	88.8
		0.13	85.29	12.84
				85.16
+50			2.0	83.3
6+00			5.5	79.8
+13	X		5.5	79.8
+5	X		6.7	78.6
		6.25	91.37	0.17
				85.12
			6.37	85.00 = 84.92

West
Martell
Yorankia

35

22 Jan 53

TBM $\frac{3}{4}$ in prep cor SE cor 35th + J St
North prep line Jth

RE 913

RE 913

Profile Proposed P1

Tompkins 35th to Francis (5) &
 Francis Tompkins to K (2) &
 K St Francis to 35th (10) &

West
 martell
 Varonakis

clear warm 36
 28 Jan 53

Sta	L	H ₁	-	H ₂
	1.41	86.33		84.92
	1.56	74.93	12.96	73.37
	2.45	66.05	11.33	63.60
0+00			2.8	63.2
+13			2.95	63.1
+41			3.01	63.09 53.64 +9.4 to Flow Line
+50			3.2	62.8
1+00			6.0	60.0
+50			10.7	55.3
+51			20.7	45.3
+68			21.6	44.4
	1.65	54.87	12.83	53.22
2+00			3.0	51.8
+50			5.3	49.5
3+00			6.4	48.4
+152			6.3	48.5
+21			6.18	48.4 39.9 +8.7 to Flow Line
3+50			5.9	48.9
4+00			3.2	51.6
+50	13.02	67.82	0.07	54.80

BM BP SW cor Pardee + 1st

East Prop Line 35th St

Top cover GV 1st Lt

Top S edge Sewer MH

10' Deep

15th Rt To Flow Line 3rd Storm drain

6th Lt to Flow Line 3rd " "

Top east edge Sewer MH

Turn on & nail

Sta	+	HI	-	SI
5+00		67.82	9.6	58.2
+50			5.8	62.0
6+00	13.00	80.56	0.9 0.66	66.9 67.26
+50			8.3	71.9
7+00			6.1	74.1
7+00			6.10	74.1
7+50			4.7	75.5
8+00			1.2	79.0
+50	12.07	92.08	0.3 0.25	79.9 80.91
9+00			11.0	81.0
+14 ² (9+20)			10.8	81.2
+50			8.4	83.6
10+00			4.1	87.9
+50			4.8	87.2
+90			3.9	88.1
11+00	11.74	103.56	1.5 0.31	90.5 91.77
+50			9.2	94.3
+89			5.7	97.8
12+00			4.9	98.6
12+00			5.64	97.9
+12			4.8	98.7
13+17 ²			4.5	99.0
			5.73	97.83 = 97.80

80.26
6.12
4.16

Top East edge sewer MH

+76 To Flow line
79.1
66.56

7.5
10 RT
4 L 35
4 RT 10 RT

103.56
8.64
97.92

edge 0.1

Top North edge sewer MH 10 RT

edge 0.1

= 393.23 35 "T"

See page 30

Top west edge sewer MH

12+17²² K 91 = 3+93²³ 35th 89°49'30" RT to Sta 3+00

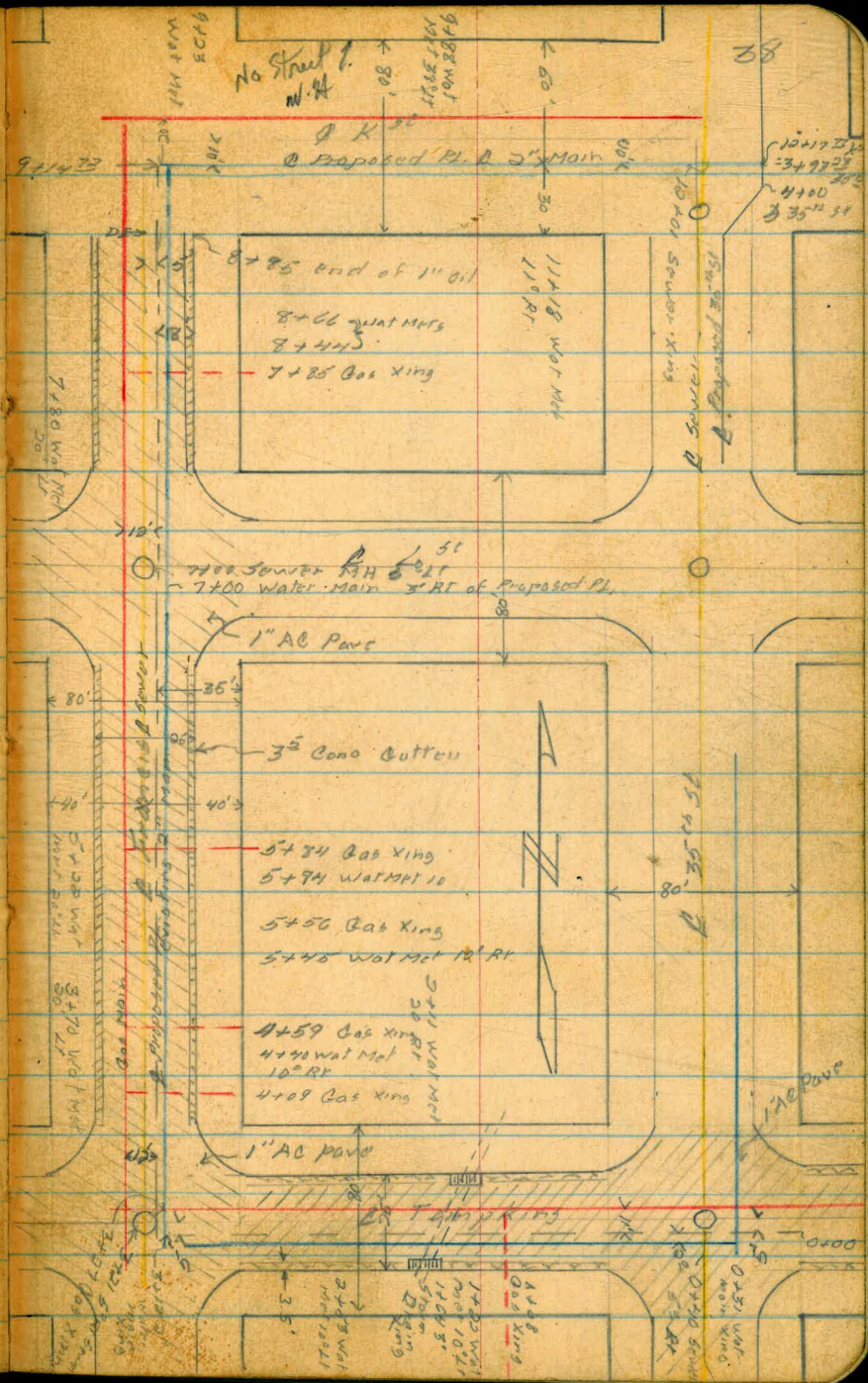
9+14²³ 2 89°47' RT

all st have a 3/2" conc gutter

3+15 A 90° 21' RT

0+00

East Prop Line 35th St



PARKER PLACE
& EVERTS ST.
FROM FANUEL TO PAC. BEACH DRIVE
& PROPOSED WATER

1. 0+00 = Ely prop. line Fanuel
9. 0+80 Wly " " "

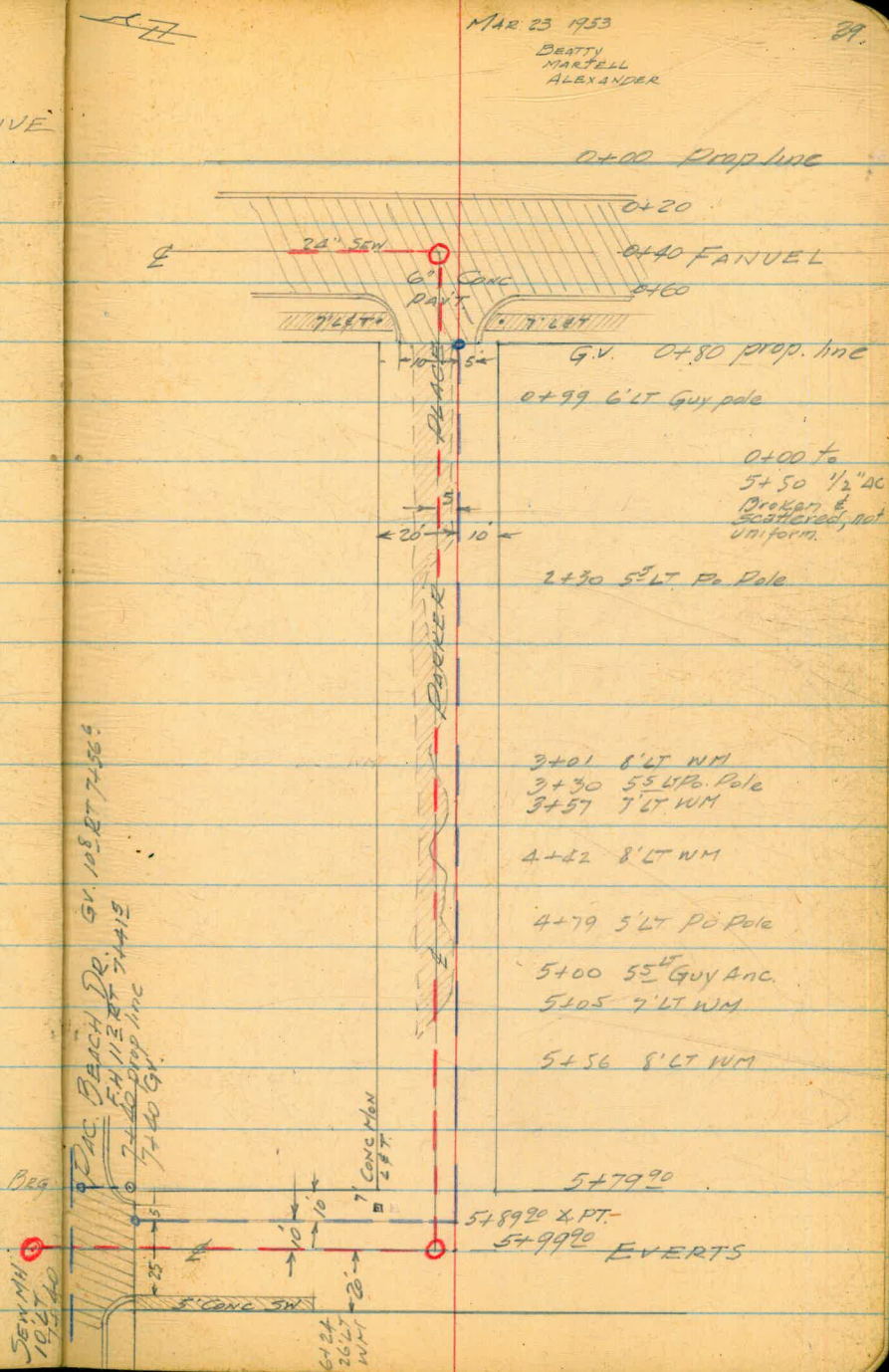
S. 75° W

5+89⁹⁰ 7 PT 89° 58' 30" RT.

3+

N 15° W Mag. Beg.

0. 7+00 = Sly prop. line Pac. Beach Dr.



PARKER PLACE &
 EVERTS ST
 From FANUEL to PAC. BEACH DR
 & Profile & Proposed WATER

BM	2.99	10.38		07.39
9 P	3.13	12.91	0.60	09.78
	SEW M.H.		Rim 2.29	
			INV. 13.60	
0+80 =	Wly prop line		3.0	
	Fanuel			
1+00			1.8	
+50			1.8	
2+00			2.9	
+50			3.6	
3+00			4.3	
+50			5.1	
4+00			6.0	
+50			6.5	
5+00			7.3	
+50			8.0	
+89.90	3 PT		8.4	
7 P	7.68	12.42	Rim 8.17	04.74
			INV.	
3 6+00			7.5	
+50			6.2	
7+00			4.9	
6 7+40	Edge Conc Pavt		5.42	
	SEW. M.H.		Rim 4.68	
			INV. 14.98	
CK BM			5.62	07.40 - 07.39

3/23/53

40

BP. NW COR. PAC. BEACH DR & EVERTS

5' RT 0+40

10' LT 5+94.90

Unable to get cover off
 (rustled)
 ON
 TIGHT!

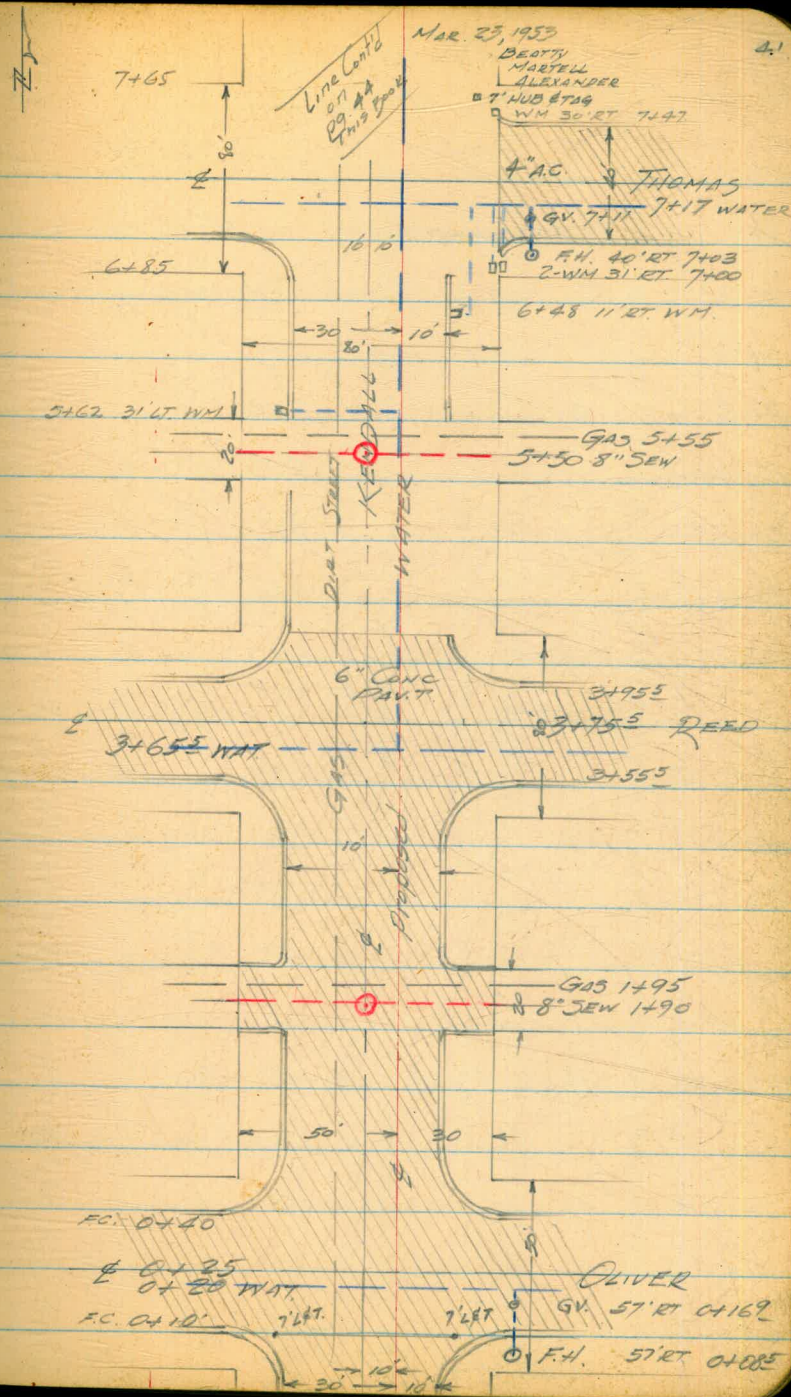
10' LT 7+70

+ 13.80 - 12.79

KENDALL ST
 OLIVER TO THOMAS
 & PROPOSED WATER

7+65 = Nly prop line Thomas

0+00 = Sly prop line Oliver St



KENDALL ST.
 OLIVER To THOMAS
 & Profile Proposed WATER

BM	6.49	52.08	45.59
0+00	= Sky Prop line Oliver		5.16
0+20			5.03
0+25	= Oliver		5.01
0+40			5.28
0+50			5.06
1+00			4.45
+50			3.90
	SEW. M.H.	Rim 3.08	
		Inv. 9.45	
2+00			3.39
+50			2.90
3+00			2.33
+50			1.58
+94			1.35
4+00	7.03	57.89	1.22 50.86
+15 ⁴⁰			6.79
+50			6.8
5+00			6.2
+50			5.5
	SEW. M.H.	Rim 5.73	
		Inv.	

3/23/53

42

7' LT SW COR KENDALL & PAC BEACH DR (8499-L)

on Conc part

" " "

" " "

" " "

" " "

" " "

" " "

10' LT 1+90

on Conc part

" " "

" " "

" " "

" " "

" " "

End Conc part

10' LT. 5+50

KENDALL ST.
(Cont'd.)

3/21/53

42

6+00	57.89	5.1	
+50		4.7	
7+00		4.3	
+15		4.2	
+50		4.2	
7+65 = Naily prop line THOMAS		4.2	
SET TBM		4.58	53.31
P	3.34	51.72	9.51 48.38
CK BM		6.13	25.59

7' offset Hub NEly Cor Thomas & Kendall

L & T SW Cor Kendall & Pac Beach

KENDALL ST.
Cont'd
THOMAS TO GRAND

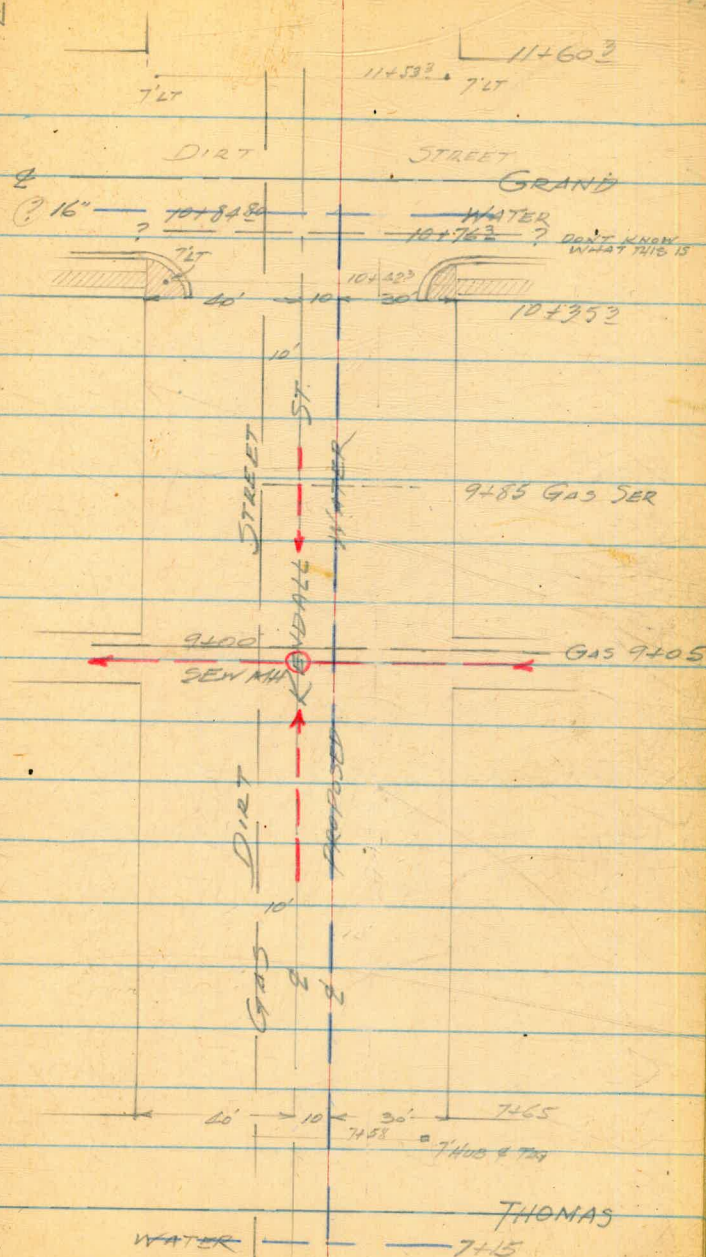
3/24/53

44

11+60³ Nly prop line Grand

10+84⁸⁰ = ϕ 16" ? WATER

10+35³⁰ Sly prop line Grand



7+65 = Nly prop line THOMAS

3/24/53

45

KENDALL ST
(Cont'd.)

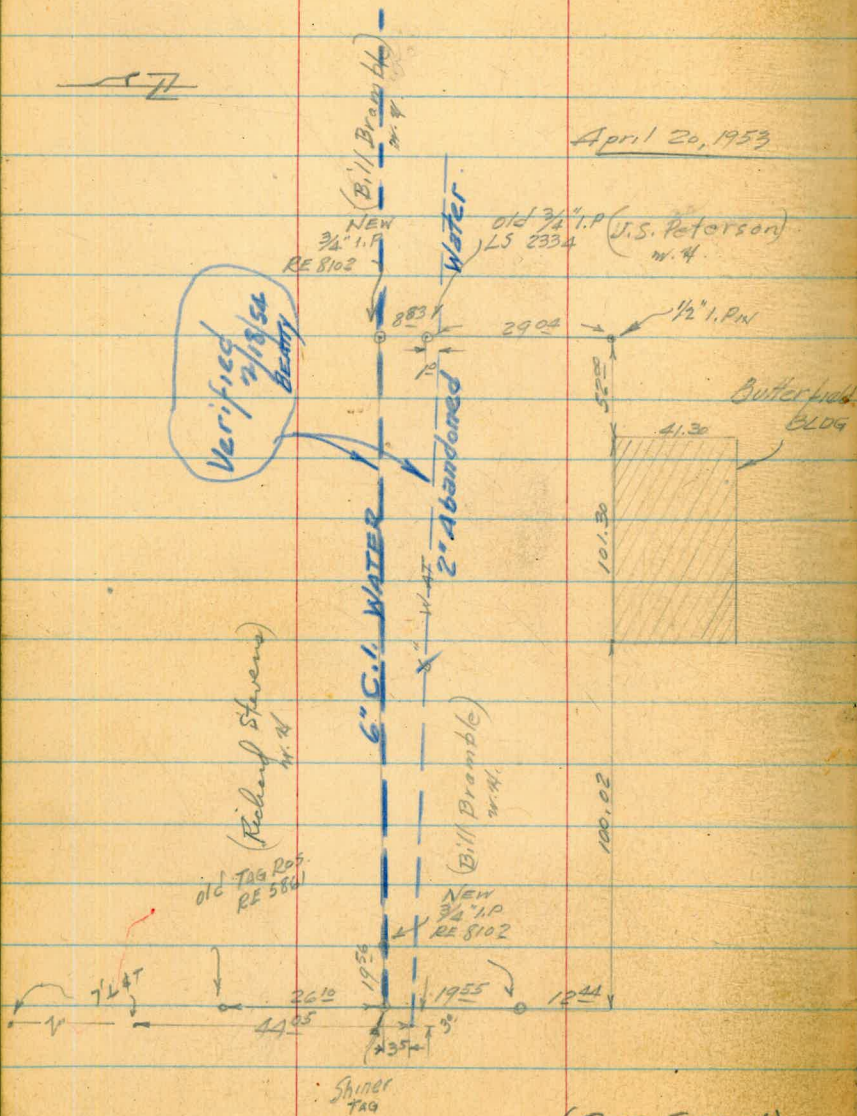
TBM	3.39	56.70	53.31
8+00			3.5
+50			3.9
9+00			4.4
	SEW M-H	Rim 4.25 104.16.15	
+50			5.4
10+00			6.1
+50			6.5
+8280			6.2
11+00			6.1
11+603 = Nly Prop line GRAND			5.7
CK TBM	3.39		53.31

7 HUB NE Cr Thomas & Kendall pg 43

10' LT 9+00

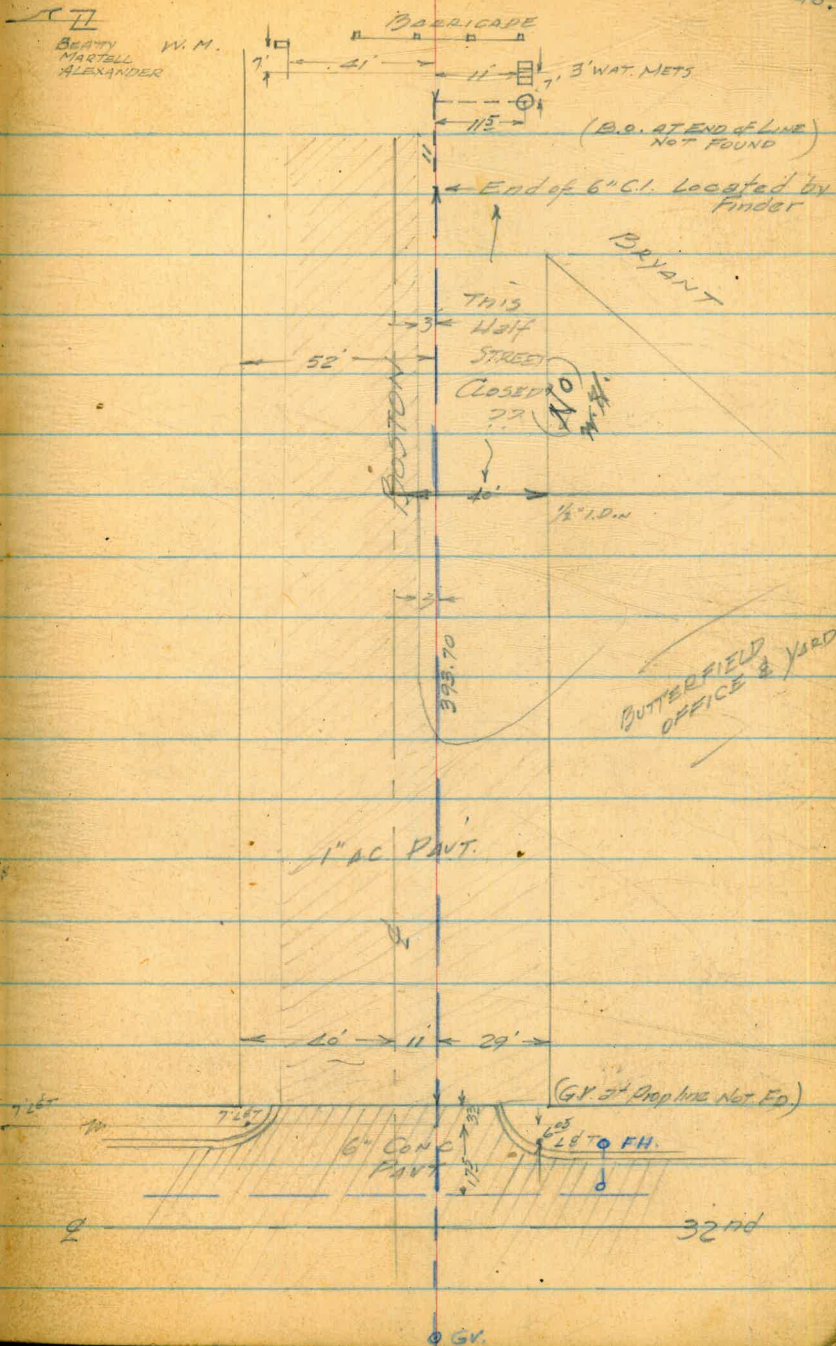
LOCATION OF 6" WATER
 BOSTON ST, FROM
 ELY PROPLINE 32ND ST
 EASTERLY TO TERMINUS

April 20, 1953



(SEE SKETCH)
 PG. 47

Mar 24 1953



o G.V.

STAKES FOR 6" WATER
TOMPKINS 35TH TO FRANCIS

WEST 9
VARONFAKIS X
WILLIAMS

9/3/53

48

	+	HI	-	EL
B.M.	1.45	64.49		63.04
0+30			1.6	62.9 59.4
0+50			1.85	62.65 59.6
1+00			4.8	59.7 56.4
1+50			9.3	55.2 51.4
1+75			11.6	52.9 48.8
2+00			12.9	51.6 47.4
2+50			15.1	49.4 44.8
CHECK To B.M.			1.45	63.04 = 63.04

TOP S. EDGE SEWER M.H. 35TH TOMPKINS

C3 ⁵

C3 ⁰

C3 ³

C3 ⁸

C4 ¹

C4 ²

C4 ⁶

SEWER M.H. 35TH TOMPKINS

TOOLEY ST.
WEAVER TO PARADISE
⑤ STKS & GRD.S for 8" A.C. WATER

Sept. 12 1953
SOUTH
TOOLEY
ALEXANDER KAMP
West
VARENFARIS

BM	12.71	378.88		366.17		Conc Man 40' LT 2148 ⁴⁹ Weaver (FD 852 pg 9)
	11.91	390.42	0.27	379.61		
27+63			0.60	389.8	382.3 390.0	C 75 FO2 WM N VACANT
27+53			2.0	388.4	377.4 ✓	C 92 1.5
	12.18	402.35	0.25	390.17		
27+33		F.H. TEE	11.3	391.1	381.2	C 99 11.2
1		⑤ FH	12.40	390.0	386.5 385.0	C 45 C 35 C 88
27+00			7.5	394.9	386.0 ✓	C 89 7.8
26+72			3.6	398.9	398.0 392.0	C 58 C 18 WM S 6109 Tooley
26+50	12.49	414.60	0.24	402.11	391.4	C 81 13.2
			12.1	402.5		
			6.6	408.0		
26+12			⑧ 4.6	410.0	400.9 ✓	C 72 7.5
			⑩ 4.4	410.2	402.9 ✓	C 72 5.4
26+00				410.2	402.9	C 72
	12.80	427.17	0.23	414.37		
			⑧ 5.1	402.1	412.8 ✓	C 93 419.2
25+50			⑩ 5.0	422.2	412.8 ✓	C 94 7.7
	12.50	439.53	0.14	427.03		
			⑧ 6.4	433.1	422.2 ✓	C 10 4/2 ✓
25+00			⑩ 6.1	433.4	422.7	C 10 7/2 ✓
			⑧ 1.3	438.2	430.5 426.6	C 72 C 11 6
24+75			⑩ 0.8	438.7	430.5 426.6	C 82 C 12
	13.07	452.36	0.24	439.59		
			⑧ 9.6	442.8	434.4 ✓	C 84 ✓
24+25			⑩ 9.2	443.2	434.4 ✓	C 83 ✓ 10.0
24+00			7.7	444.7	437.0 ✓	C 7 7.7
23+62			4.7	447.7	440.8 ✓	C 69 5.1
23+25		F.H. TEE	3.1	448.3	442.2 ✓	C 64 3.5
		⑤ FH	3.2	449.2	446.2 ✓	C 50 C 25 C 70 3.5
23+00			2.6	449.8	443.2 ✓	C 66 2.8
22+75			2.6	449.8	440.0 444.0	C 98 C 55 ✓
22+00			2.9	449.5	447.6 ✓	C 12 3.0 WM S 6155 Tooley

TOOLEY ST
(CONT'D)

9/14/50

50

462.36

22+50
+41

7.3 449.1 443.8
1.8 450.6 447.4

C 5.3 ✓

3.3
WM N

6152 Tooley

22+00

3.0 449.4 443.5

C 5.9 ✓

3.0

21+50
+42

2.5 449.9 443.1
2.5 449.9 440.8

C 6.8 ✓

WM S

6165 Tooley

21+00

2.4 450.0 442.7

C 7.3

2.4

20+90

2.3 450.1 446.7

C 7.8 c34

WM S

20+58

70³ 70² 8x6 TEE
1.64

451.22 2.78 449.8

C 7.7 ✓

2.6

20+50

1.7 449.6 442.4

C 7.7 ✓

2.2

20+00

3.4 447.9 442.0

C 5.8 ✓

4.0

19+50

6.0 445.2 441.6

C 3.6 ✓

5.90

+48

5.8 445.4 445.5

C 3.6 ✓

WM N

6186 Tooley

19+00

445.3

FOR COL ✓

18+97

8x6 TEE

6.1 445.1 441.2

C 3.9 ✓

6.3

18+75

FH TEE

5.8 445.4 441.0

C 4.4 ✓

6.0

⑤ FH

4.8 446.4 444.5

C 3.9 ✓

6.3

18+50

5.8 445.4 440.8

C 4.4 ✓

445.4

18+50

F 30

5.40 445.8

C 4.4 ✓

445.8

18+50

9.54 435.40

5.38 445.84 440.0

C 1.6, c34

125 5.50

18+00

5.7 449.7 445.5

C 5.0 c46

115 WM S

1835 Republic

18+00

440.5

4444 C 1.5 c

446.4

17+75

7.8 449.6

C 4.1 c53

9.0

17+50

3.1 452.3 440.2

C 8.4 ✓

9.1

+38

4.0 451.4 439.7

C 12.1 ✓

WM N

6220 Tooley

17+00

2.7 453.2 439.7

C 11.7

11.9

17+00

1.37 443.84

7.3 448.7 437.0

C 13.5 ✓

11.9

16+50

5.1 438.7 437.8

C 11.1

5.9

16+00

11.9 431.9 427.6

C 12.7 ✓

11.9

C 4.8 ✓

C 4.2 ✓

TOOLEY ST
(Cont'd.)

9/12/53

51

		443.84						
	0.69	431.49	13.04	430.30				
15+50			6.5	425.0	421.4			
+41			5.8	425.7	426.3			
15+00			13.2	418.3	415.1			
	0.92	419.59	12.92	418.67				
14+75			4.8	414.8	411.0			
					412.0			
14+50			5.8	413.8	408.4			
					409.9			
14+25			6.7	412.9	407.6			
14+16 1/2	End Work		6.75	412.8	407.1			
HP	11.45	423.18	7.96	411.73	411.64			
14+11 1/2	8x6 Cross, (for Exist 6x6 Cross)							
14+0 1/2	Begin Work		10.0	413.2	408.2			
					409.1			
13+75			6.8	416.4	410.0			
					410.5			
13+50			2.5	420.7	412.6			
HP	12.49	435.23	3.5	419.7				
13+00			0.44	422.72	419.8			
			8.5	426.7				
			8.3	426.9				
12+50			3.6	429.6	424.8			
			1.5	433.7				
12+00			2.4	432.8	429.8			
HP	11.32	446.29	0.26	436.97				
11+50			8.5	437.8	432.5			
11+00			5.7	440.6	435.2			
10+50			4.8	441.5	438.0			
10+00			3.3	443.0	439.3			
9+50			0.9	445.2	440.7			
HP	15.10	459.19	0.10	446.13	441.6			
9+4 1/2	8x6 Cross		12.0	447.2	441.7			
9+00			11.2	448.0	442.0			
8+85	F.H. TEE		10.4	448.8	441.5			
(5) F.H.			5.1	452.1	447.0			

BY 44.02

C 36 ✓
 624.6 F.O. CIL
 C 32 ✓
 C 38
 C 54 C 39 ✓
 C 53
 C 52
 411.64 BM Top of T
 55' Elev. Woodie + Tooley

413.5 Elev. grill line & pipe

9/18/53
 Beatty
 Shroyer
 Marshall
 Alexander

6.2
 W.M. N 6250 Tooley
 15.2
 5.7
 6.0
 413.7
 5.8
 6.0
 9.4
 7.3
 5.2
 12.2
 7.0
 8.2
 8.2
 5.7
 7.8
 2.9
 2.9
 11.3
 12.0
 10.5

C 71
 C 61
 C 69
 C 71
 C 48 ✓
 C 82
 C 30
 C 53
 C 54
 C 35
 C 37
 C 47 ✓
 C 56
 C 60
 C 73
 C 71 C 26

9/18/53

32

TOOLEY ST.
(CONT'D)

459.19

8+50		8.1	451.1	443.6	C75		80
8+00		4.5	452.7	445.3	C94		84
7+50		1.6	457.6	446.9	C107		17
7+25		1.2	458.0	447.7	C103		13
7+00		0.8	458.4	448.1	C103	0.7	13
6+75	4.32	463.39	0.12	459.07	448.55	C105	0.2
6+25		2.5	460.9	449.4	C115		32
6+00		2.2	461.2	449.5	C117		31
5+50		3.0	460.4	449.7	C103	✓	35
5+00		5.8	457.6	450.0	C76		26
4+50		6.4	457.0	450.3	C67		57
4+18 ⁵⁰	8" x 6" CROSS	6.1	457.3	450.5	C68		56
4+00		5.9	457.5	450.6	C69	5.7	56
3+88 ⁵⁰	F.H. TR	5.8	457.6	450.7	C69		55
3+70	(5)	6.9	456.5	454.2	C22 C58		51
3+50		5.1	458.3	450.9	C74		51
3+00		6.0	457.4	451.2	C62		57
2+50		8.8	454.6	451.5	C31		84
2+00		8.6	454.8	451.8	C30		86
1+50		4.8	458.6	452.7	C59		41
1+00		1.0	462.4	453.7	C87		09
(11)	6.19	468.48	1.04	462.35			

TOOLEY ST.
(Cont'd.)

9/18/53

53

468.48

0+50		5.3	463.2	454.6	086	54
0+30.5	11 1/2° Bend 22 1/2° Bend 0 = 11° 58' RT	4.9	463.6	455.4	082	48
0+032	45° Bend	5.4	463.1	455.4	077	54
TOTL		6.20	462.28	462.23		3/4" I.P. NE Cor Tooley & Paradise

WATER METERS

11+79 N	N 446.29	10.5	435.8	435.3	025	6320 Tooley
11+57 N	"	8.9	437.4	436.8	006	6326 Tooley
7+40 N	N 459.19	1.6	457.6	451.4	062	6366 Tooley
5+12 N	N 463.4	3.9	459.5	453.6	059	6392 Tooley
3+40 N	"	4.6	458.8	454.4	016	6404 Tooley
2+42 N	"	8.2	455.2	455.0	002	6416 "
0+44 N	N 468.48	} 5.2	459.3	458.6	019	
0+46 N				458.7		
0+25 N		} 4.7	463.8	459.0	018	
0+23 N				459.0		

STERNE ST.
WILLOW TO EVERGREEN
⑤ STKS & GRDS FOR 6" WATER

9/18/53
Beatty
Marley
Marshall
Alexander

B.P. - NW Cor. TOWNSEND & WILLOW. (FB. 810 p. 69)

BM	1.52	195.42		193.90			
TP	2.56	185.26	12.72	182.70			
0+70	Edge of Conc Pavt.		12.0	173.26			
0+70	Existing G.I.						
0+75	Regrit Work.		11.4	173.9	170.3	C36	3.3
1+00			8.2	178.1	171.8 179.0	C63	8.0
+25			4.2	181.1	174.6 176.4	C65	4.0
+50	8.64	193.61	0.29	184.97	178.0 179.0	C70	0.2
+85			4.5	189.1	182.0 182.6	C71	4.2
2+00			3.2	190.2	183.6	C76	
2+12			2.7	190.9	183.0 183.2	C79	2.7
+38			2.3	191.3	182.5 183.0	C88	
+75			4.2	189.4	180.0	C94	4.0
3+00			6.8	186.8	177.0	C98	6.6
2+05	WM. LT (NEW)		4.9	188.7	181.4	C73	
2+50	0.33 (30' E LT @ 1/2" line)	181.41	12.53	181.38	170.0	C90	2060 Evergreen
			2.4	179.0			2.1
+75			5.1	176.3	166.0 166.2	C103	5.2
CK PD	Top 2" RISE		9.70	171.71 =	171.75	(FB. 810 p. 70)	
1+00	3.37	172.13	12.65	168.76	163.5 163.7	C43	3+93 - 8.3
			4.3	167.8			5.6
+25			5.5	166.6	162.5 163.6	C41	5.9
+37	F.H. TEE	END WORK	5.9	166.2	162.5	C33	141.5 16.6
⑤	F.H. (20' Lt. @ 1/2" line)		3.1	169.0	162.0	C00	C65
CK PD			0.42	171.71 =	171.75		

CASS ST.

TURQUOISE TO VAN NUYS

② STKS & GRDS FOR WATMETS

BM	5.34	157.12	151.80				
1+65 W			13.1	144.0	144.3	FO2	5228 Cass
1+90 E			10.7	146.4	146.3	CO1	5229 "
2+43 E			8.1	149.0	148.9	CO1	5235 "
2+65 W			7.5	149.6	149.2	CO4	985 Agate
2+84 E			6.2	150.9	150.8	CO1	5243 Cass
①							
4+52 W	11.85	168.77	0.22	156.92	156.5	CO4	5260 Cass
4+80 W			11.0	157.8	157.3	CO5	5266 Cass
5+42 W			8.6	160.2	159.7	CO5	5276 "
5+47 E			7.0	161.8	160.5	CO3	5277 "
5+94 W			7.1	161.7	161.3	CO4	5280 "
6+38 W			5.7	163.1	163.0	CO1	5286 "
7+23 W			3.1	165.7	165.2	CO5	982 Archer
①							
7+93 E	5.70	174.37	0.10	168.67	167.3	CO3	5305 Cass
8+66 E			3.8	170.6	167.3	CO3	5305 Cass
8+66 E			3.5	170.9	168.8	CO1	5325 "
9+52 E			5.2	169.2	169.9	FO7	5339 "
CK ①							
9+86 ⁵⁸			5.82	168.55 = 168.57			Conc Mon SW Cor Cass Van Nuys
			2.97	169.40 = 169.40			CK end curb SW Cor " " "

Sept. 16, 1953
Deathy
Shorey
Alexander

55

Nail in power pole SW Cor Cass & Agate

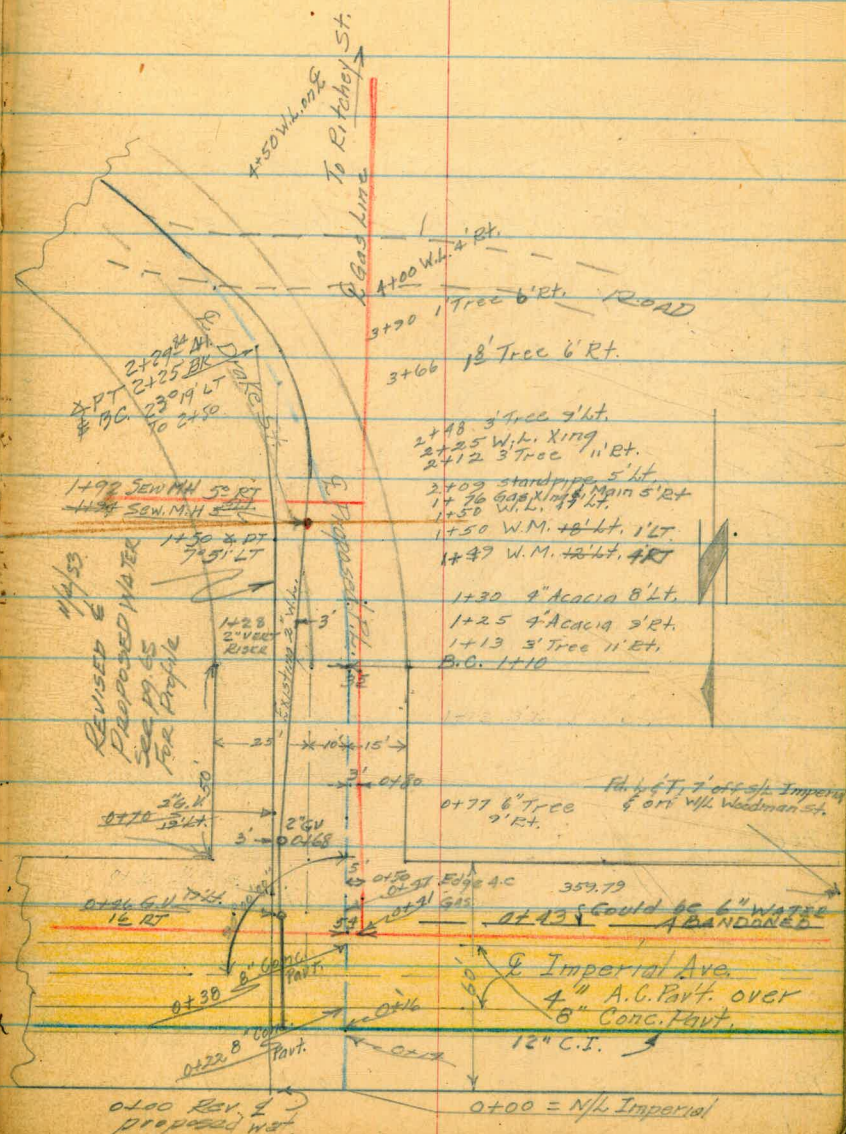
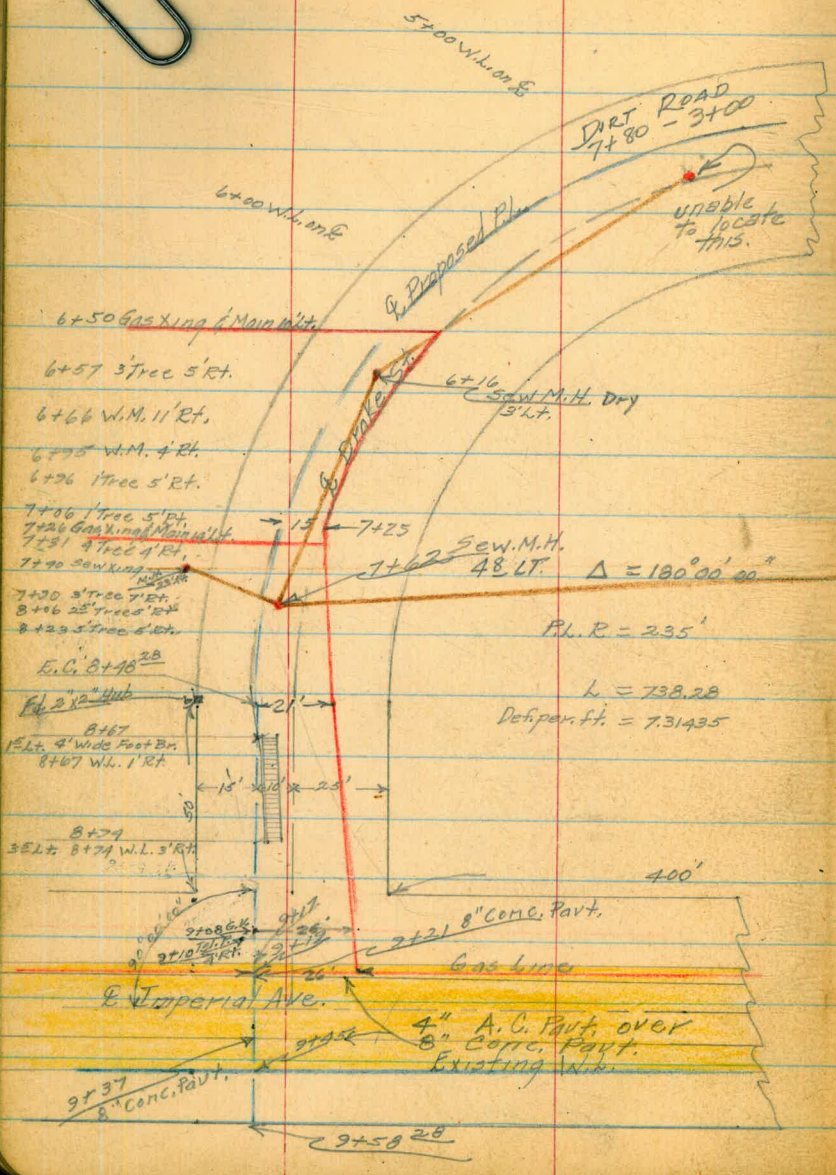
Drake St.
Imperial to Imperial Ave
E. P.L. Profile

Shorey
Martel
Alexander

9/22/53

7+20 7' RT
3'DIA
8+06 2 3/4" DIA 9' RT. Each end line
8+23 5' 5' RT.

(56)



- ^{DRAKE ST.}
1. See sketch p956 to 851
 2. 48 LT 7+625 = Center M.H.
 3. Dirt Road 3400 to 7+80 only
 4. With pipe locator impossible to separate gas & water, but, think water is abandoned
 5. ^{sewer dead end} impossible to locate in field
 6. See Rev. & p956. Rev. Profile ^{p95} 65

Drake St.
 Imperial to Imperial
 & Profile Proposed Water

B.M	4.40	234.80	230.40
0+00 = N/L Imperial	4.7		230.1
0+14	4.61		230.2
0+47	4.48	230.32	
0+50	4.7		
0+80	5.8		
0+90	10.1		
1+00	10.5		
1+10 B.C.	13.1		
1+19	10.8		
1+25	6.1		
1+50	6.0		
1+75	5.8		
1+77	14.50 5.50	229.30	
2+00	5.6		
2+25	5.1		
2+50	4.1		230.7
2+75	3.0		231.8
TP	8.01	232.43	0.38 234.12

Shorey
 Martel
 Alexander
 9/23/53

7 L&T Woodman & Imperial

Edge oil N. side Q = & Drake St.

" " S. side

	4.7	230.1					
Top of ditch	5.1	229.1		8.1	6.9	6.5	7.0
Bottom of ditch	5.3	229.1		2.1	2.0	2.0	10.1
	3.4	229.2		10.1	11.6	11.6	11.6
	4.6	229.2		12.1	13.0	13.0	12.0
Bottom of ditch	4.3	229.1		11.8	9.7	9.7	5.9
Top of ditch	3.1	229.1		3.1	6.0	6.0	5.9
	5.7	229.1		4.0	6.2	6.2	6.2
	5.3	229.1		5.9	5.8	5.8	5.8
Inn.							
Top Sew. M.H. S/Lt. W. Edge	5.0	229.8		5.6	229.2		5.8
	5.1	229.7		5.1	229.7		5.1
	9.5	230.3		7.2	230.6		3.7
	4.3	230.5		3.3	231.5		3.7

Drake St.
Imperial to Imperial
Contd.

242.43

3+00	8.3	234.1
3+25	7.8	234.6
3+37	7.6	234.8
3+50	6.1	236.3
3+75	5.0	237.4
4+00	3.9	238.5
4+25	3.5	238.9
4+50	3.6	238.8
4+75	3.5	238.9
5+00	4.5	237.9
5+25	5.1	237.3
5+50	4.7	237.7
5+75	4.6	237.8
6+00	5.1	237.3
6+16	11.70 5.20	230.7 237.2
6+25	5.6	236.8
6+50	6.3	236.1
6+75	7.0	235.4
7+00	7.4	235.0
7+25	7.9	234.5

6.20 240.76 7.87 234.56

Shorey
Martel
Alexander

9/23/53

Lt.

Dirt Road

Inv.
Top Sew. M.H. 3' Lt. E. Edge.

4.6 2.9	230.4	9.5	232.9	Rt. 234.3	
10.7 2.5	232.0	8.5	233.9	8.1 20	238.6
11.8 2.5	230.6	8.3	234.1	5.1 20	238.1
10.5	231.9	8.0	234.4	5.1 20	239.0
10.1	232.3	7.5	234.8	4.2 20	239.0
8.4	234.0	6.6	237.0	3.4 20	241.3
7.2	232.5	6.2	236.7	3.2 20	243.2
7.1	235.3	5.7	236.7	1.9 20	243.3
6.6	235.8	5.7	236.7	1.8 20	247.3
6.8	235.6	5.7	236.9	1.3 20	247.3
6.8	235.6	5.5	237.0	1.3 20	242.4
6.5	235.9	5.2	237.0	1.3 20	240.2
6.7	236.0	4.9	237.5	1.3 20	239.1
7.4	235.0	4.9	237.5	4.2 20	239.2
6.9	235.5	4.9	237.3	4.0 20	239.2
7.1	235.3	5.1	237.3	4.1 20	238.4
7.5	234.9	5.7	236.7	4.9 20	237.6
7.7	234.7	6.5	235.9	4.9 20	237.3
7.9	234.5	6.5	235.3	5.3 20	236.1
		7.1	234.9	5.3 20	236.1
		7.5	234.9	5.1 20	236.1
		7.9	234.5	4.7 20	236.1
		7.9	234.5	4.7 20	236.1

(58)

Drake St.
Imperial to Imperial
Profile Proposed Water
240.76

7+50	6.6	234.2
7+40	14.14 5.94	226.62 Inv. 237.82 Top Elev.
7+75	6.7	234.1
8+00	7.1	233.7
8+25	7.4	233.4
8+48 ²⁸ E.C.	7.6	233.2
8+63	7.2	233.6
8+80	13.1	227.7
8+90	12.4	228.4
9+00	6.6	234.2
9+17	4.51	236.3
9+45	4.47	236.3
9+50	4.7	236.1
9+53	3.9	236.9
9+58 ²⁸ End = N/A Imperial	3.9	236.9
TP	2.93	250.12
Ch. B.M.	0.87	249.25
TP	1.01	250.26
	2.14	239.91
TBM	3.23	236.68
TP	3.49	234.55
Ch. B.M.	4.18	230.37 = 230.40

Shorey
Martel
Alexander Lt

9/23/53

(53)

6.8	234.0	6.7	234.1	Rt	6.8	234.5
6.8	234.0	6.8	234.0		6.8	234.2
7.1	233.7	7.1	233.7		7.1	233.9
8.0	232.8	8.0	232.8		8.0	233.3
8.5	232.3	8.5	232.3		8.5	232.8
9.5	231.3	9.5	231.3		9.5	232.8
12.5	228.3	12.5	228.3		12.5	230.3
12.0	228.8	12.0	228.8		12.0	228.6
11.9	228.9	11.9	228.9		11.9	228.6
6.2	234.8	6.2	234.0		6.2	234.2
Edge oik S. Edge Imperial						
" " N. " "						
Top F.H.S.W. Con 68 th of Imperial						
" " " " " "						
PK Nail on E of Imperial 5' Lt. of Proposed Pk.						
TLT Woodman of Imperial						

Tompkins & Francis St
 Cont from page 48 (Freeway)
 Stks for 6" AQ Main (10) & 5"

West
 Varenfakis
 Kemp

9-29-53

(60)

	0.66	74.82		74.16				
	0.20	62.21	12.81	62.01				
3	3+10 BK = 3+15 AH		13.1	49.1	43.3	C 5 ⁸	OK	50' West of E prop line
3	+25		13.6	48.6	43.5	C 5 ¹		
4	+50		13.0	49.2	45.0	C 4 ²		
4	4+00		9.8	55.4	48.2	C 4 ²		
4	+28		4.1	57.1		C 0 ⁰		WM E
4	+50		6.7	55.5	51.4	C 4 ¹		
5	5+00		3.0	59.2	54.4	C 4 ⁸		
5	12.80	74.40	0.61	61.60				
5	+34		11.3	63.1		C 0 ²		WM E
5	+50		11.2	63.2	58.4	C 4 ⁸		
6	+74		6.5	67.9		C 0 ²		WM E
6	6+00		6.3	68.1	63.2	C 4 ⁹		
6	+50		2.1	72.3	68.0	C 4 ³		
6	+55		1.8	72.6	68.1	C 4 ⁵		FH Tee
6	8.15	92.21	0.34	74.06				
7			7.0	75.2		C 0 ²		(5) FH
7	+75		8.0	74.2	68.6	C 5 ⁶		
7	7+00		7.5	74.7	68.0	C 6 ⁷		

7+00 See page 37

Top east edge sewer MH

8221

7+25	5.3	76.9	68.9	C 8 ³ / ₀
+50	3.2	79.0	70.0	C 9 ⁰ / ₀
+75	2.5	79.7	73.6	C 6 ¹ / ₀
8+00	1.7	80.5	75.4	C 5 ¹ / ₀
+50	1.3	80.9	76.3	C 4 ⁶ / ₀
9+00	0.4	81.8	77.4	C 4 ⁴ / ₀
9+24	0.9	81.3		C 0 ⁰ / ₀
	8.06	74.15	= 74.16	

W11 E

8+92.25 New 2

Line 7.5 North of South
prop line K51

J⁵T.
36TH ST TO 35TH ST.
STK.S & GRDS FOR 6" A.C. WATER

Nov. 3, 1953

BEATTY
SHOREY
MARTELL
ALEXANDER

(62)

78.M	8.40	113.91	13.30	105.51		
TP	9.74	110.35		100.61		
0+60		16" C.I.				
0+65		Begin Work (25)	6.8	103.6	99.6	c40
0+75		(25)	7.5	102.9	99.0	{c39
		(10)	7.5	102.9		{c39
1+25		(25)	12.4	98.0	93.0	{c50
		(10)	12.8	97.6		{c46
1+37.5		1 1/2" Bend. (25)	12.6	97.8	92.0	{c53
		(10)	12.3	97.5		{c55
1+50		(10)	11.3	99.1	93.2	c59
1+75		(10)	2.7	100.7	95.2	c50
2+25		(10)	5.0	105.4	103.2	c22
2+50		(10)	1.0	109.4	105.2	c42
TP	9.58	119.34	0.57	109.76		
2+75		(25)	9.3	110.0	106.2	{c38
		(10)	8.6	110.7		{c45
3+00		(25)	9.5	109.8	106.5	{c33
		(10)	9.1	110.2		{c32
4+50		(25)	8.2	111.1	107.1	c40
+58 WM So.			8.6	110.7	110.5	
4+00		(25)	7.8	111.5	107.6	c39
6+50		"	8.2	111.1	107.6	c35
6+00		"	6.9	112.4	107.6	c48
+19 WM Nor			5.4	113.9	111.9	c20 3530 J ST
+50		"	6.6	112.7	106.4	c63
+69 WM Nor			6.1	113.2	110.7	c25 3520 J ST
6+00		"	6.7	112.6	105.2	c74
+04 WM So.			8.5	110.8	108.4	c24 3515 J ST
+30 WM Nor.			8.8	110.5	108.5	c22 3512 J ST
+50		"	10.6	108.7	103.0	c57
7+54 WM Nor			10.0	109.3	107.6	c1? 3504 J ST
TD	0.08	109.85	9.57	109.77		
CK BM	4.37	109.88	4.37	105.48 - 105.31		

3/4" I.P. SE Cor. 35TH & J⁵T. pg. 35

Ground Line & pipe.

c02 3557 J ST

c20 3530 J ST

c25 3520 J ST

c24 3515 J ST

c22 3512 J ST

3504 J ST

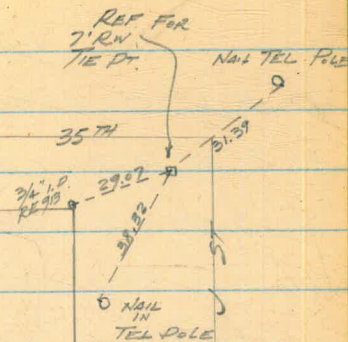
35TH ST.
"J" ST. TO "L" ST.

109.88

6+65	F.H. TEE	2.2	107.7	102.4	C53	2.4
	⑤ F.H.	3.2	106.7	105.9	COL C43	
6+92.8	6" TEE	4.1	105.8	101.0	C48	4.1
0+50	35 TH ST.	4.3	105.6		C46	
1+00		6.3	107.6	100.0	C36	4.3
+50		7.3	102.6	99.4	C32	7.3
2+00		6.4	103.5	98.7	C48	6.3
+50		5.9	104.0	98.1	C59	5.9
3+00		6.9	103.0	97.4	C56	6.9
+50		8.7	101.2	96.8	C44	8.6
3+99.5	45° Bend	11.0	98.9	95.0	C39	11.0
IP	Δ = 45° 54' RT.					
4+19	6" WYE	12.53	97.35	97.4	C40	12.4
	1.49 / 98.84 0.98		97.86 = 97.80		ERM Sew M.H.	97.80 RVD 88.05 INV.
4+24		2.0	96.8	93.0	C38	1.9
4+34	45° Bend	2.6	96.2	91.9	C43	2.8
	Δ = 45° 40' 30" LT.					
+50		4.4	94.4	90.7	C41	4.6
5+00		9.9	88.9	84.9	C42	10.1
IP	1.10 86.68	13.26	85.58			
+50		3.3	83.4	79.4	C40	3.4
+75	PT 2" W LT.	5.7	81.0	77.4	C36	6.0
				77.8		
6+00		6.8	79.9	76.4	C35	6.8
				76.8		
6+48	End work	7.6	79.1	75.0	C41	7.7
6+53	Existing F.H. TEE					
IP	7.53 89.24	4.97	81.71			
CKBM		4.25	84.99 = 84.92			

1/4/50

63



35TH ST

Cont'd

WAT. MET.S

11/4/53

(69)

0+99 W	Ni 109.88	4.0	105.9	104.2	C17	402	35 TH
0+51 W		4.5	105.4	104.1	C13		35 TH
0+53 W		4.7	105.2	104.0	C12	400	35 TH
1+48 W		7.3	102.6	103.0	F04	338	35 TH
2+155 E		4.1	105.8	102.6	C32	331	35 TH
2+57 E		5.1	104.8	102.0	C28	315	35 TH
3+01 W		7.2	102.6	101.0	C16	316	35 TH
3+81 E		9.2	100.7	100.5	C02		3530 K ST.
4+66 E						289	35 TH
4+72 E W						290	"
4+82 E	Existing MET.S IN Sidewalk & Corb. 1					283	"
5+05 W						282	"
5+43 E						271	"
5+53 W						272	"

DRAKE ST.
E PROFILE REV. E 0+00-2+29⁸⁴
(SEE Pg. 56)

11/4/53.
Beatty
Shroy
Martell
Alexander

65

P	4.40	234.72	230.32
0+14	Nly edge ACpaut.	4.51	230.2
0+30	E Imperial.	4.06	230.7
0+47	Sly " ACpaut.	4.21	230.5
0+55		4.1	230.6
0+93	Top/Bank	6.0	228.7
0+95		7.0	227.7
0+98		9.2	225.5
1+00		9.7	225.0
1+12		11.2	223.5
1+15		12.2	222.5
1+20		12.1	222.6
1+30	Top/Bank	6.2	228.5
1+50		5.6	229.1
2+00		5.4	229.3
2+25 BK		5.0	229.7
2+29 ⁸⁴ AK			
CK	5.45	229.27	= 229.30

0+47 pg. 56

Rim M.H. 5' RT 1492

279.21
15.
80.
265.
70.
265.00
974.21
14.49
988.70

305.7
80.
265.
70
265.
985.7

638.06
23.00
27.00

6488.66

23
68
91

169.2
157.8
11.4

250.12

12.35

237.77

249.25

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

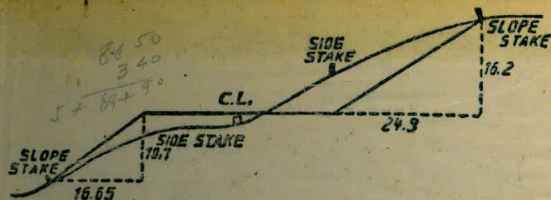
12.35

250.26

237.77

12.49

37 etc
38 H
50H
H2H
ORANGE
to POLK



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	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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