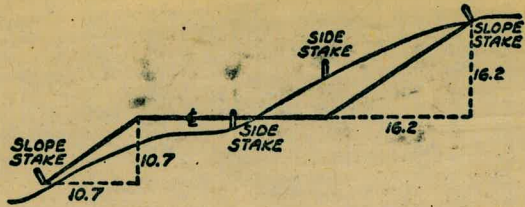


# 2008



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.

## CITY ENGINEER'S OFFICE

INDEXED

to page # 58

## DIRECTIONS FOR USE OF TABLES

TABLE No. XIV

Distance of slope stake from side or shoulder stake for any width roadway, slope  $1\frac{1}{2}$  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 No. VIII

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections. Degree of curve with a given I may be found by dividing tangent, (or external), opposite I by given tangent, (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

INDEXED

to page 32

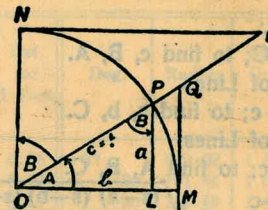


TABLE II  
TRIGONOMETRIC FORMULÆ.

$$\angle A = \angle MOP \quad \angle B = \angle PON = \angle OPL$$

$$R = OB = c = 1$$

$$\sin A = \frac{a}{c} = \frac{a}{1} = a = \cos B = LP$$

$$\cos A = \frac{b}{c} = \frac{b}{1} = b = \sin B = OL$$

$$\tan A = \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot B = MQ$$

$$\cot A = \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B = NT$$

$$\sec A = \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B = OQ$$

$$\csc A = \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B = OT$$

$$\text{vers } A = \frac{LM}{OP} = LM = \text{covers } B = \text{vers } B$$

$$\text{covers } A = \frac{OP-LP}{OP} = OP-LP = \text{vers } B$$

$$\text{exsec } A = PQ = \text{coexsec } B$$

$$\text{coexsec } A = PT = \text{exsec } B$$

$$\sin \frac{1}{2} A = \sqrt{\frac{1 - \cos A}{2}} \quad \cos \frac{1}{2} A = \sqrt{\frac{1 + \cos A}{2}}$$

$$\sin 2 A = 2 \sin A \cos A \quad \cos 2 A = \cos^2 A - \sin^2 A$$

$$\text{Law of Sines} \quad \frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

$$\text{Law of Cosines} \quad c^2 = a^2 + b^2 - 2 ab \cos C$$

$$\text{Law of Tangents} \quad \frac{a+b}{a-b} = \frac{\tan \frac{1}{2} (A+B)}{\tan \frac{1}{2} (A-B)}$$

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

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

FOR TANGENTS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.03	.06	.09	.13	.16	.19	.22	.25	.28	.31	.34	.38	.42	.46
15°	.04	.10	.14	.19	.24	.29	.34	.39	.45	.51	.53	.58	.63	.68
20°	.06	.13	.19	.26	.32	.39	.45	.51	.58	.65	.72	.79	.84	.90
25°	.08	.16	.24	.33	.40	.49	.58	.67	.75	.83	.90	.99	1.06	1.14
30°	.10	.19	.29	.39	.49	.59	.69	.79	.89	.99	1.09	1.20	1.29	1.39
35°	.11	.22	.34	.47	.58	.69	.79	.81	.92	1.04	1.29	1.42	1.54	1.66
40°	.13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	.15	.30	.44	.60	.76	.91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	.17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	.19	.38	.57	.76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	.21	.42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	.23	.46	.69	.93	1.16	1.40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	.25	.51	.76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	.30	.61	.91	1.22	1.53	1.84	2.15	2.46	2.78	3.10	3.44	3.78	4.12	4.46
85°	.33	.66	1.00	1.33	1.66	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	.266	.353	.440	.528	.617	.707	.797	.887	.977	1.07	1.18	1.29
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

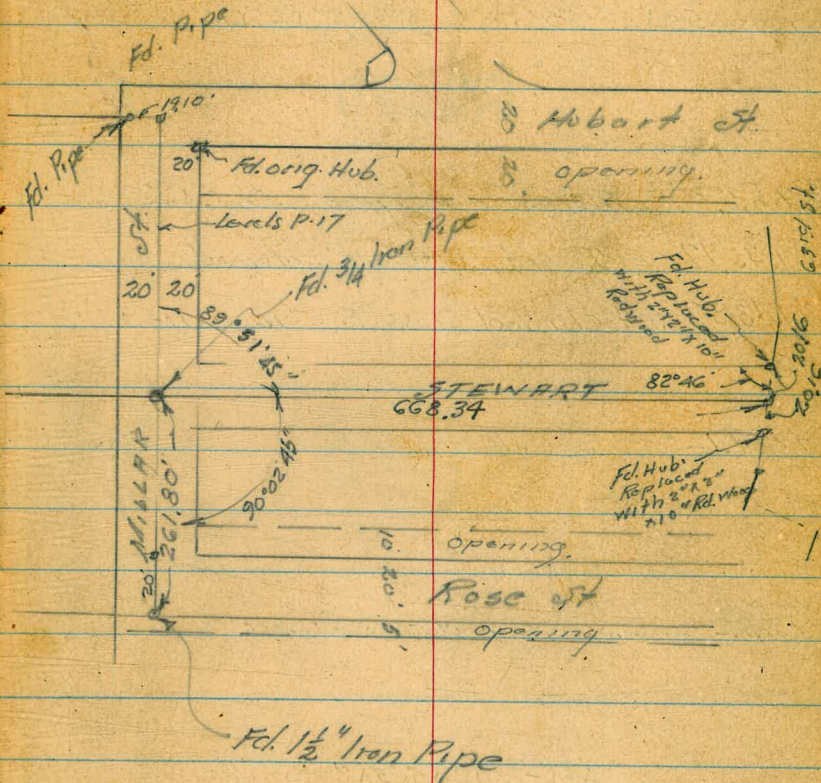
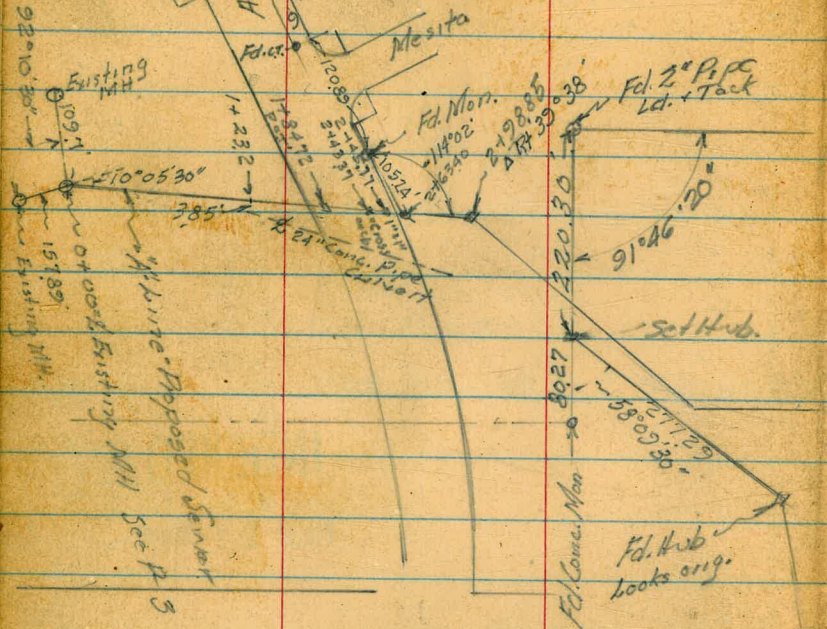
INDEX

Oakmere		
"A" line location Proposed Sewer		37
"B" " " " Sewer		89.233
Art St. " " "		24
Choctaw " "		25
"C" line " "		25.27
"D" " " "		28
Copley St. lot #163	Mt. View Dr. East to Normal Hgts	52
Alley Bk 2, Stephens Add.	X-Sec. Sewer Profile	63
	<b>INDEXED</b>	to P 28
	WK	
	FEB 21 1949	
X-Sec. Rose St.		69
X-Sec. Miller <sup>(A)</sup> St.		75

Walker  
Johnson  
Pope  
Riley  
1-24-49

PEMBROKE

TIES for Location Proposed Sewer  
in Oakmere  
And Acacia Park  
NO. 31469 2



INDEXED  
WK  
FEB 21 1949

COLLEGE

Grades - See P-61

43.57  
84.72  
53.65

Prelim. Sewer Locations  
Oakmere And Acacia Park.

"A" Line

Stations  
Cont. P-4

2+98.85 - Δ Rt 39°38' set 2" x 12" x 10" Redwood

INDEXED

2+63.40 = Int. Semi tangent set 1" x 12"

2+45.77 = P.O.T. set 1" x 11" x 14" Redwood

2+43.37 set Chisled Cross E. curb line

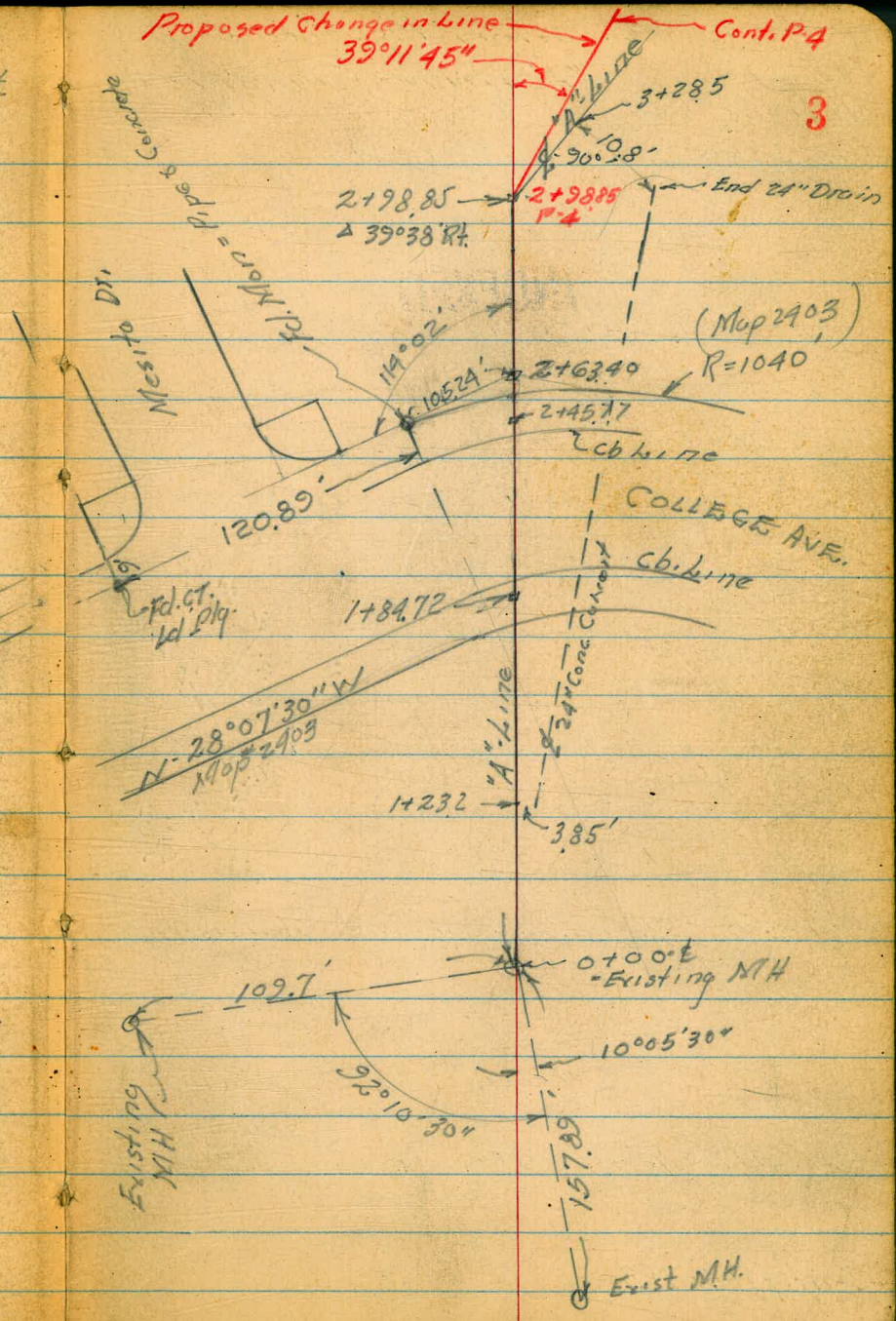
1+84.72 = P.O.T. = 1" x 11" x 14" Redwood

1+23.2 3.85' Rt = 24° Conc. Culvert

Δ Rt 10°05'30"  
0+100 - Existing M.H.

(Levels P-10-16)

Proposed Change in Line  
39°11'45" Cont. P-4



Location Proposed Sewer  
"A" Line - Oakmere  
Sub.

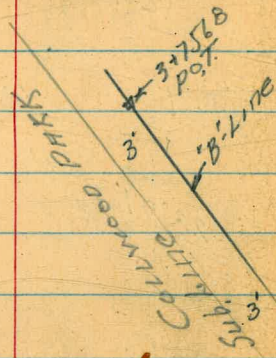
Stations

7+32.53 = P.O.T. 1" x 1" x 14" Redwood

INDEXED

6+58.84 = P.O.T. 1/2" x 1/2" x 7"

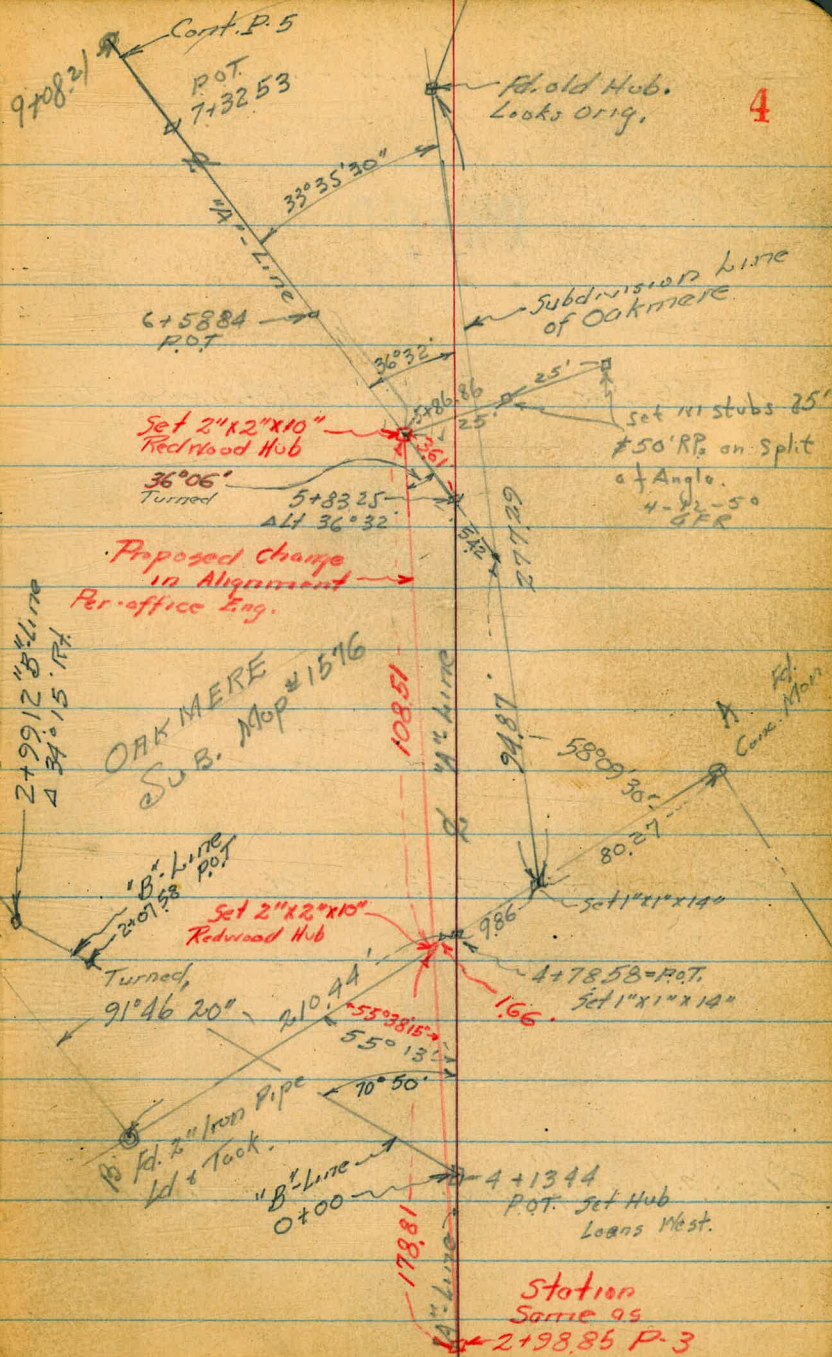
5+83.25 = A.L. 36° 32' Set 3" x 3" Redwood Post



4+78.58 = P.O.T. = Int. W. Oakmere Subdivision

4+13.44 = P.O.T. Set 2" x 2" x 10" Redwood (Hub Learning West Against Rocks)

Cont. from P. 3





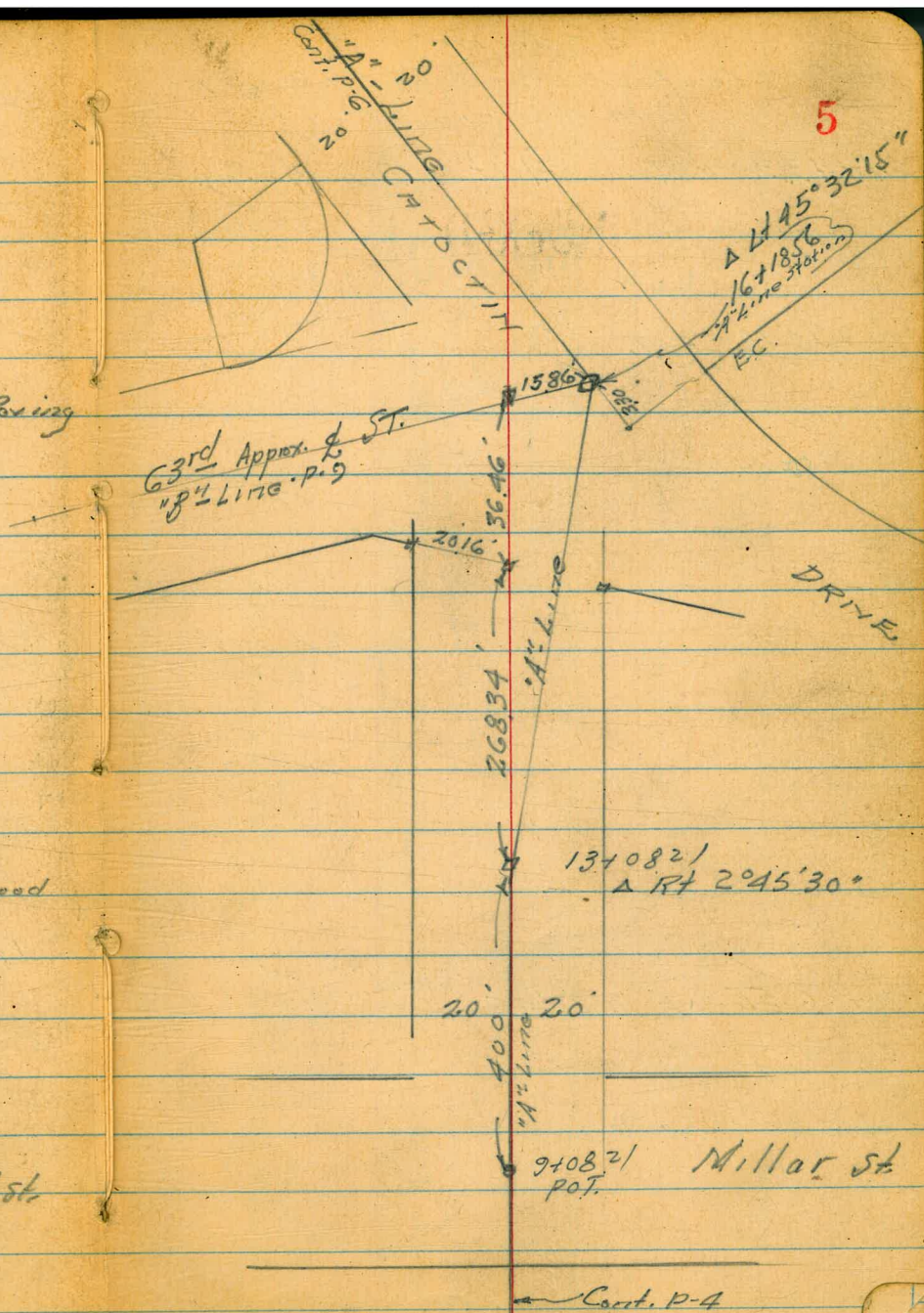
"A" - Line  
Location Proposed Sewer  
in Alacia Park

INDEXED

16+18.56 =  $\Delta 45^{\circ}32'15''$  Set 1" Redwood in Pav. ing

13+08.21 =  $\Delta RT 2^{\circ}45'30''$  Set 1" 11" Redwood

P.O.T.  
9+08.21 =  $3/4"$  pipe  $\frac{1}{2}$  Miller and Jewett St



"A" Line  
Location Proposed Sewer  
in Acacia Park

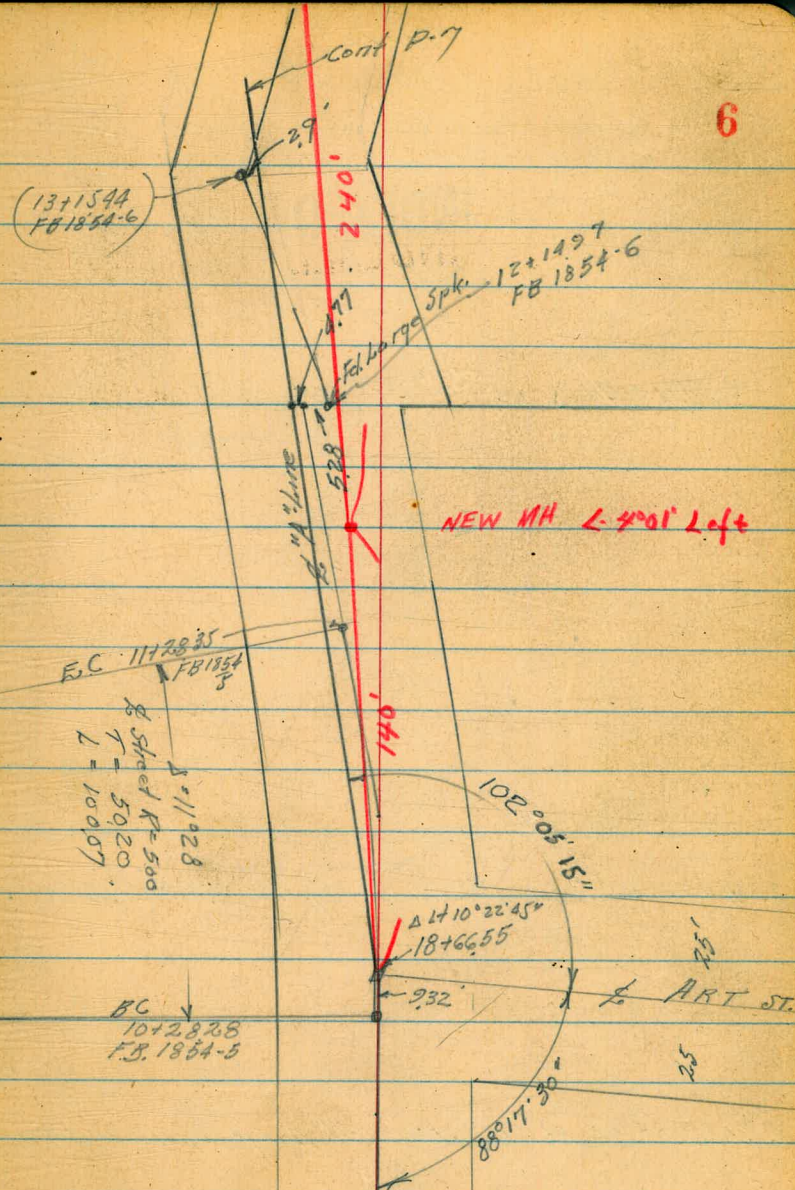
21743.3 = P.O.T.    2.9 Lt = Fd. large Spk.

INDEXED

20445.76 = P.O.T.

18166.55 = Δ 10° 22' 45"

Set 1" Redwood  
on Semi for 19.



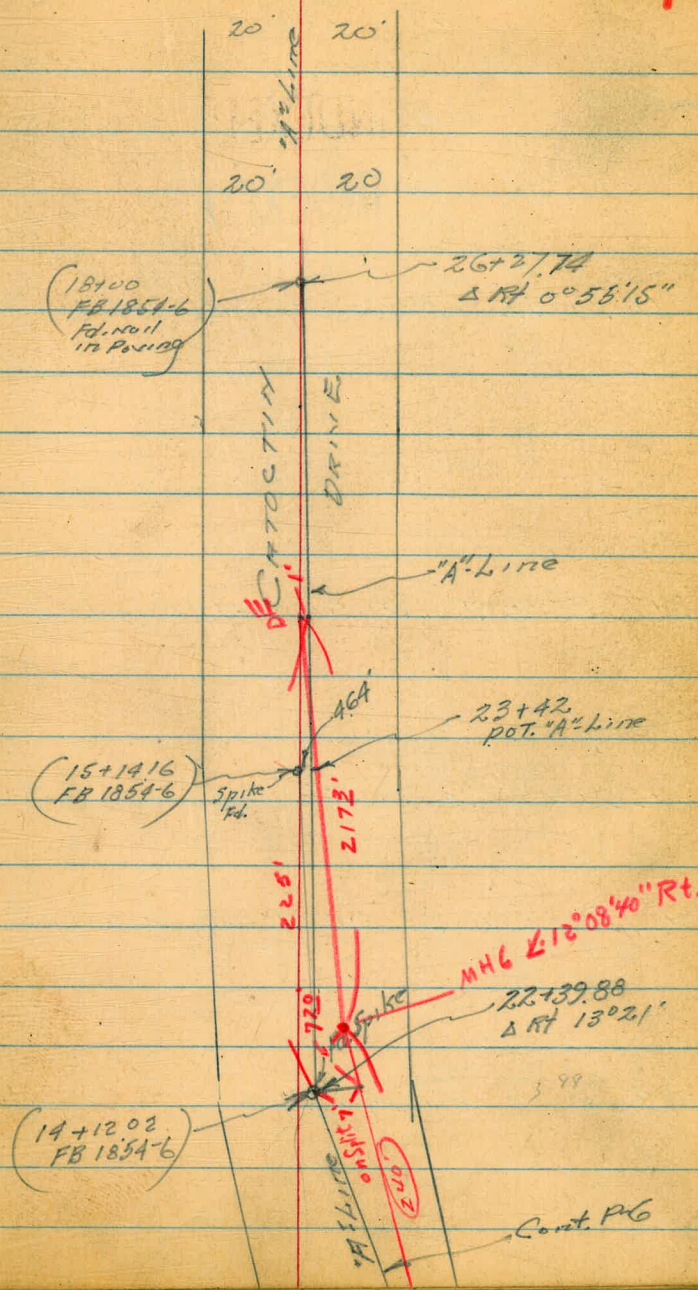
"A" Line  
Locations Proposed Section  
in Acacia Park

INDEXED

26+27.74 = Δ Rt. 0° 55' 15"

23+42 P.O.T. Fd. Large Spike 464 ft.

22+39.88 = Δ Rt 13° 21' Fd. Large Spike in Paving



MHC  $\angle 12^{\circ} 08' 40''$  Rt.

22+39.88  
Δ Rt 13° 21'

Cont. PG

LOCATION - PROPOSED SEWER

8" LINE  
IN OAKMERE SUB.

Levels - P-19

INDEXED

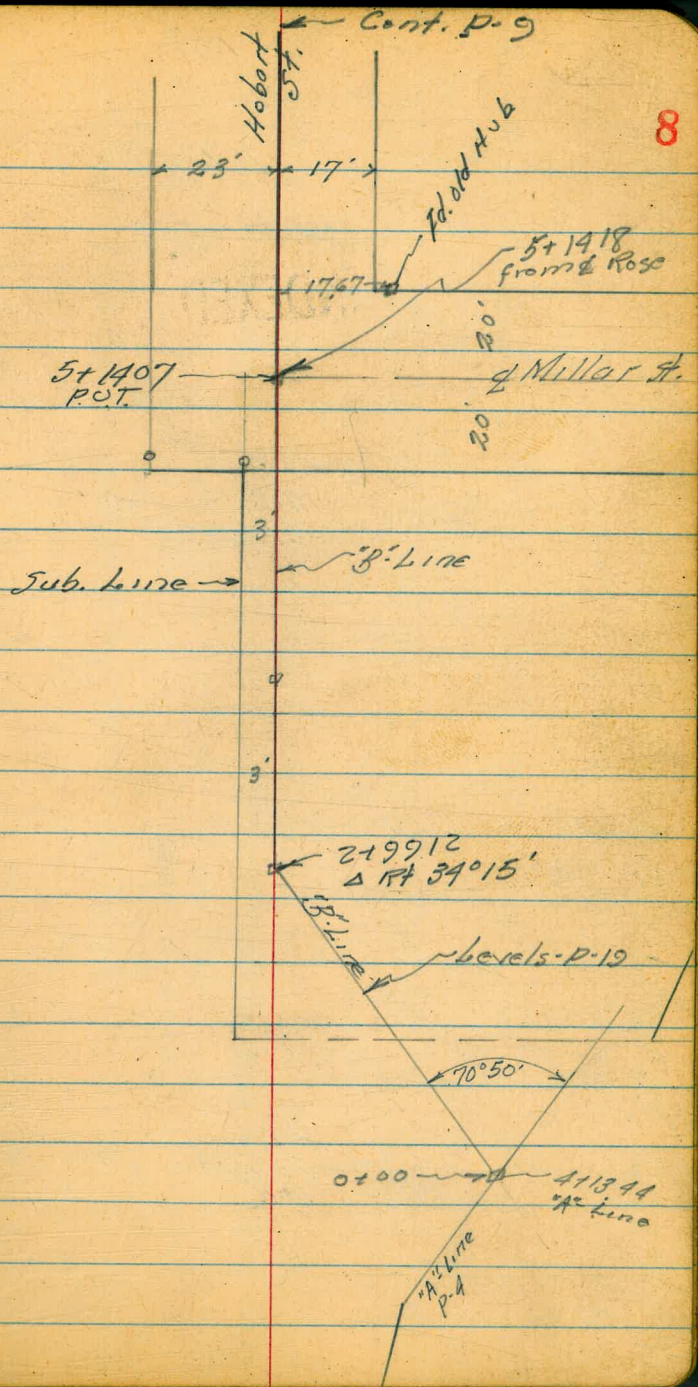
5+14.07 = P.O.T. 2" Millar St Set 2" x 2" x 10" R.W. Hub

3+75.68 = P.O.T. Set 1" x 1" x 14" Redwood

2+99.12 = A.P.T. 34° 15'

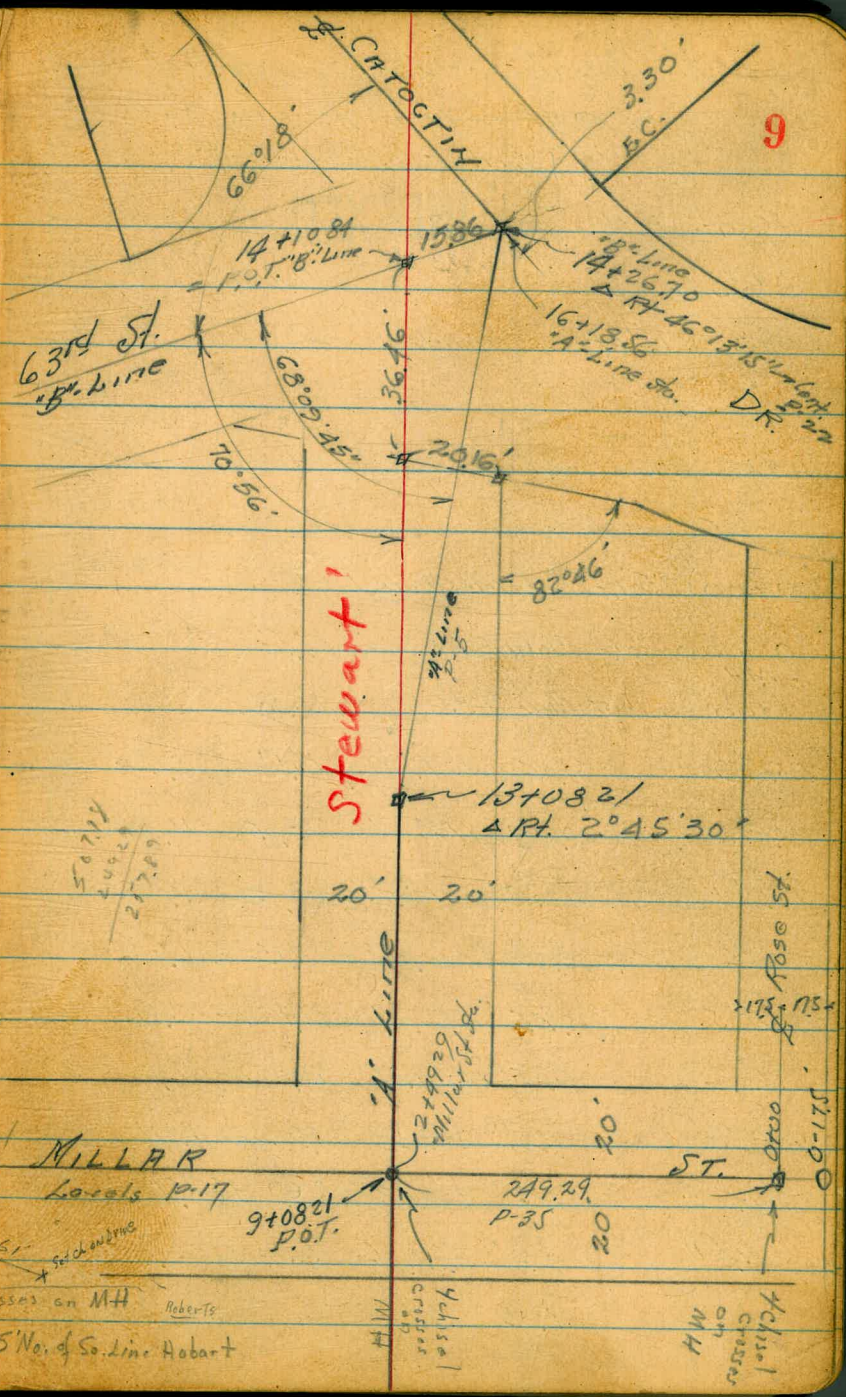
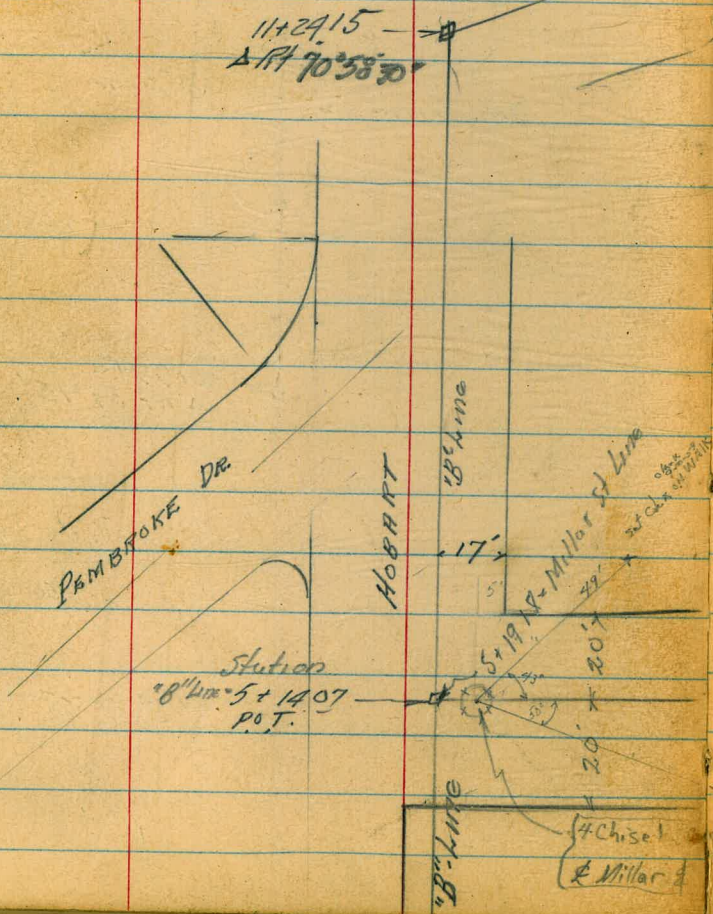
2+07.58 = P.O.T. Set 1" x 1" x 14" Redwood with steel

0+00 = 4+13.44 on "A" Line



Location - Proposed Sewer  
in Oakmere and Acacia Park  
Cont. from p. 8

INDEX



9

Walker

Profile Levels - Proposed Sewer  
 in Oakmere <sup>And Acacia Park</sup>  
 "A" Line - Location P.3-7.

Walker  
 Johnson  
 Pope  
 Kile  
 2-11-49

10

Cont. P-11

## INDEXED

0+35		117	389.30		
(0+23) 12' RT - L Channel		16.8	389.20		
0+23		13.0	388.00		
		16.3	389.70		
0+02 on Approx. Floor Sewer from settling tank					
0+05		12.0	389.00		
(0+00) 15' RT - L 4' wide channel		17.9	383.10		
0+00 on Flow Exist. Sewer	19.56		381.44		
L.M.H.					
= 0+00 (on East Run M.H.)	12.88		388.12		
TP#9	106	401.00	12.17	399.94	on Rock
TP#8	0.73	412.11	13.05	411.38	on Rock
TP#7	0.88	424.43	13.93	423.55	on Rim M.H. 109.7' Lt of 0+00
TP#6	4.82	436.48	11.12	431.66	on Mon 105.24' Lt of 3+63.40 "A" line P-3
TP#5	0.55	442.81	12.40	442.26	
TP#4	2.05	454.66	10.72	452.61	on Hub 7+32.53 "A" line P-4
TP#3	0.92	463.33	4.92	462.41	on 3/4" Iron Pipe L. Millar <sup>And</sup> Stewart St.
TP#2	4.36	467.33	6.69	462.97	on 1 1/2" Iron Pipe L. Millar 17.5' South <sup>of</sup> Rose St P-2
TP#1	3.61	469.66	5.50	466.05	
	5.89	471.55		465.66	B.M. B.P. NW El Cuyos & Cotacotin Dr. FB 1693-8

A<sup>c</sup> Line  
Cont. from P. 10

Cont. on R. Page

TR #11	1194	426.60	0.09	414.66
1+52 in Fill		6.3		408.45
TR #11	1203	414.75	0.14	402.72
1+36 in Fill		3.7		399.2
(1+23.2)	385 ft	Pipe Flow 24"	14.57	388.29
1+23.2 in Fill		10.6		392.3
1+21 = Toe Fill - College Way		13.3		389.6
1+05		14.0		388.9
1+00 2 channel		15.1		387.8
0+97		14.6		388.3
TR #10	1149	402.86	9.63	391.87
0+82 = channel E. side		13.1		387.9
0+75 = 2 channel		14.4		386.6
0+69 = Int. S.E. Sewer on Top		14.1		386.89
(0+50) 8' ft = 2 channel		15.9		385.1
0+50		12.6		388.4
(0+35) 12' ft channel		16.7		384.3
		101.00		

Cont. P. 10

2+63.40				
TR #13	0.87	421.04	13.12	420.17
2+63.40 on Hub			13.12	420.20
2+63.4			13.6	419.7
2+50			3.0	430.3
163	433.29			431.66
chk TR #6	7 Corrected	163		431.69
2+45.77 = POT on 1" x 1"		2.59		430.73
2+43.1 = on cb.		2.37		430.95
2+43.0 on Gutter		2.95		430.37
1+87.9 on Gut.		4.53		428.79
on Grating		4.49		428.83
(1+87.87) 15.8 ft = 2 15' cb inlet				
College Way				
on cb				
1+87.87 = Int. W. cb line		3.75		429.57
1+84.72 = POT on 1" x 1"		3.62		429.70
1+79		3.3		430.0
TR #12	7.85	433.32	11.3	425.47
1+74 in Fill			1.1	425.5
1+67 in Fill			6.7	419.9
		426.60		

Cont. on Rth. Page

Cont. on P-13

(5+00) 6' RT	2.8	408.7
5+00	1.8	409.7
(4+78.5) 7' RT - 1/2 ch.	4.6	406.9
<small>Int. Sub. Line</small>		
4+78.58 - POT	3.8	408.31
(4+50) 5' RT - 1/2 3' channel	7.3	409.2
4+50	6.5	405.0
(4+29) 2' RT - 1/2 channel <small>3' wide</small>	9.5	402.0
4+29	8.7	402.8
4+13.44 - POT <small>on Hub in channel</small>	10.35	401.14
(4+00) 2' RT - channel	11.8	399.7
4+00	11.3	400.2
(3+50) 4' RT - 1/2 channel	13.6	397.9
3+50	12.7	398.8
(3+28.5) 10.2' RT <small>on flow 24" pipe 15.5'</small>	15.4	395.95
3+28.5	12.9	398.6
<small>in fill</small>		
2+98.85 Δ 39° 38' RT <small>on Hub</small>	10.81	400.68 <del>400.7</del>
2+93 in fill = toe	9.6	402.9
TP #14	2.89	411.49
	13.44	408.60
		421.04

6+58.84 - POT <small>on stub</small>	4.97	430.86
(6+27) 17' RT - 1/2 4' chan.	19.8	416.0
(6+27) 10' Lt	4.5	431.3
6+27	10.2	425.6
TP #16	13.27	435.83
	0.23	422.56
(6+03) 5' Lt <small>on side Hill</small>	0.7	422.1
(6+03) 10' RT - 1/2 3' chan.	7.4	415.4
6+03	4.3	418.5
5+92 in ch.	7.8	415.0
<small>on High Point 2" x 3"</small>		
5+83.25 = ALT 36° 32'	7.65	415.14 <small>in channel</small>
5+75 ch.	8.6	414.2
5+58	7.2	415.6
(5+50) 7' RT - 1/2 ch.	10.6	412.2
5+50	8.3	414.5
5+30	9.8	413.0
(5+21) 8' RT - ch.	11.7	411.1
5+21	11.2	411.6
TP #15	12.22	422.79
	0.92	410.57
		411.49



Profile Levels  
"A" Line

13

2 Nails in Pole 141' RT 8422

TP#19	778	467.99	0.97	460.21
8+50			0.8	460.4
8+30			2.0	459.2
8+00			2.8	458.4
7+75			3.7	457.5
(7+47) 10' Rt.			7.0	454.2
(7+47) 10' Lt.			4.6	456.6
7+47			5.6	455.6
(7+32.53) 10' Rt.			11.6	449.6
(7+32.53) 10' Lt.			6.6	454.6
chk TP# 857	461.18		8.57	452.61
7+32.53 - POT.	8 corrected			452.59
TP#18	12.88	461.16	0.59	448.78
(6+90) 10' Lt.			5.8	443.1
(6+90) 10' Rt.			11.4	437.5
6+90			8.6	440.3
TP#17	13.14	448.87	0.10	435.73
(6+58.84) 10' Lt.			1.5	434.33
(6+58.84) 10' Rt.			2.5	426.3

435.83

"A" Line

Cont p. 14

15+00		54	462.7
14+49	10.4' RT = Pole Anchor	56	462.5
14+284	11.3' RT - Elec. Pole p. 78485	57	462.4
14+00		57	462.4
13+50		55	462.6
(13+08) 100' Lt.		62	461.9
TP#20	5.53 468.13 on Hub	539	462.60
13+08.21 = Δ RT	2'45'30"	539	462.60
12+50		52	462.8
12+00		51	462.9
11+50		50	463.0
11+00		51	462.9
10+50		51	462.9
(10+00) 100' Lt.		65	461.5
10+00		50	463.0
9+50	All prop. on RT above 2 to contact	52	462.8
9+08.21 = P.O.T.			462.41
chk Iron Pipe Miller & Stewart		560	462.39
9+00		54	462.6

467.99

"A" Line

(18+00)	10.3' Lt Edge Por	644	461.69
(18+00)	6' Rt " "	635	461.78
18+00		615	461.98
(17+50)	11' Lt. Edge Por	601	462.12
(17+50)	5' Rt Edge Por	599	462.15
17+50	Por.	570	462.43
(17+00)	10.9' Lt Edge Por	546	462.67
(17+00)	5.8' Rt " "	548	462.65
17+00		521	462.92
(16+50)	11' Lt Edge Por.	493	463.20
(16+50)	6' Rt " "	528	462.85
16+50	on Paving <small>14+26.70 - p-21</small>	494	463.19
16+18.56	= Lt 45° 32' 15	474	463.39
16+07	= edge oil + Rock Por.	474	463.39
16+00		49	463.2
15+79	8' Rt Elec. Pole <small>* 76806</small>		
15+67	1' Rt. = Pole Anchor	57	462.4
15+50		53	462.8

468.13

"A" Line

14

(21+00)	12.6' Lt Edge Por.	446	459.47
(21+00)	6.6' Lt. " "	462	459.31
21+00		434	459.59
(20+50)	5' Lt Edge Por.	436	459.57
(20+50)	12.5' Rt " "	422	459.71
20+50		412	459.81
(20+00)	7' Lt. Edge Por.	408	459.85
(20+00)	11.5' Rt " "	386	460.07
20+00		386	460.07
(19+50)	4' Lt. Edge Por.	333	460.60
(19+50)	12.4' Rt " "	335	460.58
19+50		313	460.80
(19+00)	7' Lt Edge Por.	278	461.15
(19+00)	9' Rt " "	274	461.19
19+00		248	461.45
18+66.55	on stub		
TR #21	2.19	463.93	639 461.74
(18+66)	11.4' Lt	670	461.43
18+66.55	Lt 10° 22' 45"	639	461.74
18+50		639	461.74

468.13

"A" Line

(24+00)	100' Rt. S.V. Cor House	64	457.53
(24+00)	4' Rt Edge Pav.	571	458.22
(24+00)	13' Lt " "	571	458.22
24+00		557	458.36
(23+50)	6' Rt. Edge Pav.	570	458.23
(23+50)	12' Lt " "	555	458.38
23+50		547	458.46
(23+00)	10' Rt = Edge Pav.	565	458.28
(23+00)	10' Lt " "	536	458.57
23+00		528	458.65
(22+40)	4.5' Lt Edge Pav.	507	458.86
(22+40)	14' Rt " "	514	458.79
22+39.88 = Δ Rt 13° 21'		495	458.98
(22+00)	11' Rt. Edge Pav.	488	459.05
(22+00)	74' Lt " "	494	458.99
22+00		463	459.30
(21+50)	100' Rt.	45	459.4
(21+50)	7.7' Lt. Edge Pav.	476	459.17
(21+50)	11.6' Rt Edge Pav.	491	459.22
21+50		449	459.44

46393

"A" Line

		27100	490	455.91
(26+27)	10' Lt. Edge Pav.	465		456.16
(26+27)	7' Rt " "	462		456.19
26+27.74 = Δ Rt 0° 55' 15"		439		456.42
(26+00)	6' Rt Edge Pav.	442		456.39
(26+00)	10' Lt " "	445		456.36
26+00		425		456.56
TP <sup>#22</sup>	369	460.81	581	458.12
(25+50)	5.5' Rt Edge Pav.	700		456.93
(25+50)	11' Lt " "	702		456.91
25+50		682		457.11
(25+00)	5' Rt Edge Pav.	638		457.55
(25+00)	7.7' Lt " "	635		457.58
25+00		621		457.72
(24+50)	3.5' Rt Edge Pav.	581		458.12
(24+50)	124' Lt " "	591		458.02
24+50		576		458.17

15

46393

(30+00) 100' Rt			
(30+00) 50' Rt	85	452.3	
(30+00) 100' Rt	85	452.3	
(30+00) 100' Lt	120	448.8	
(30+00) 50' Lt	105	450.3	
(30+00) 11' Lt. Edge Pav.	782	452.93	
(30+00) 5.5' Rt. Edge Pav.	763	453.18	
30+00	746	453.35	
(29+00) 100' Rt. (Uniform to E on ground)	85	451.91	
(29+00) 11' Lt	730	453.51	
(29+00) 6.5' Rt. Edge Pav.	728	453.53	
29+00	700	453.8	
(28+10) 58' Rt. on Drive. opposite soil pipe West Side House	594	454.87	
(28+00) 11' Lt	623	454.58	
(28+00) 5.7' Rt.	611	454.70	
28+00	605	454.76	
27+50	554	455.27	
(27+00) 9' Lt. Edge Pav.	526	455.55	
(27+00) 7.6' Rt. " "	511	455.70	
	46081		

			003
check 19+00 FB1854	527		455.57 455.84
			006
check 22+00 FB1854-26	754		453.33 453.27
33+00 Lt + Rt Absorb	11.9		448.9
33+00 " " "	10.2		450.6
32+50 " " "	9.6		451.2
32+00 (Lt + Rt Absorb E)	8.7		452.1
(31+33) 100' Lt on ground = NW Cor House	72		451.6
31+33	8.2		452.6
(31+10) = West edge Auto Court 99' Rt	72		453.6
31+00 = End of of Pav. = End of	781		456.00
	46081		

Walker  
Johnson PRELIMINARY SEWER  
Pipe  
Cleveland IN MILLAR ST.  
2-16-19 From  $\frac{1}{2}$  Rose St to  $\frac{1}{2}$  Hubart St.

Cont. on Rt. Page

(4+00) 50' L	INDEXED	.81	459.1
4+00		66	460.6
3+50		61	461.1
(3+00) 100' L		83	458.9
(3+00) 50' L		66	460.6
3+00		54	461.8
2+49.29 on Pipe			
<del>3+44.3</del> = $\Delta$ RT $0^{\circ}05'30''$		485	462.39
(2+00) 100' L		89	458.3
(2+00) 50' L		61	461.1
2+00		43	462.9
1+50		43	462.9
(1+00) 75' L		78	459.4
(1+00) 50' L		62	461.0
1+00		52	462.0
0+50		46	462.6
(0+00) 50' L		60	461.2
0+00 = $\frac{1}{2}$ Rose Street	(Rose St. = 35' wide)	37	463.5
427	467.24	462.97	

Millar Street  
Prelim. Sewer Levels

17

5+19.18 - Int 8" Line	13.23	455.01
(5+00) 100' L	13.3	453.9
(5+00) 50' L	11.6	455.6
5+00	10.3	456.9
4+50	8.1	459.1
(4+00) 100' L	9.9	457.3
	467.24	

B.M. on Iron Pipe = T.P. #2 P. 10

Walker  
Johnson  
Pope  
Crawford  
2-16-49

PRELIMINARY SEWER LEVELS

on E ROSE ST.

from Miller to Colchester Drive

Location P-35

INDEXED

4+50		7.0	464.2
(4+00) 100' Lt.		8.1	463.1
4+00		6.9	464.3
3+50		6.7	464.5
(3+00) 100' Lt.		7.4	463.8
(3+00) 40' Lt.		7.1	464.1
3+00		5.8	465.4
2+82		5.6	465.6
2+63		5.1	466.1
2+50		5.6	465.6
(2+00) 100' Lt.		7.0	464.2
2+00		5.7	465.5
1+50		5.9	465.3
(1+00) 100' Lt.		7.0	464.2
1+00		6.5	464.7
0+50		6.8	464.4
0+00 = 1/2 Miller St.		7.6	463.6
8.23	471.20	462.97	

Rose Street  
Prelim. Sewer Levels

18

6+10.03 = Int. of "B" Line sketch P-35

6+20 = (Edge Pave) 7.60 463.6

6+13. (Edge Pave) 7.26 463.94

6+02.80 (Edge Pave) 7.09 464.11

5+87.5 (P.L.) 7.2 464.0

5+50 7.0 464.2

(3+00) 100' Lt 8.6 462.6

5+00 6.8 464.4

B.M. Pipe

PRELIMINARY SEWER LEVELS

Walker  
Johnson  
Pope  
Crowford  
2-16-49

B<sup>+</sup> LINE  
Location Pages 8, 9,

INDEXED

Cont'n on R. Page			
1+74	112	414.5	
on Top 1" x 2 1/2			
T.P. 1243	425.67	0.66	413.24
(1+50) 10' Lt.	+ 1.5	415.4	
(1+50) 7' Rt.			
- 8' 3' Channel	3.8	410.1	
1+50	13	412.6	
(1+00) 10' Lt.	2.8	411.6	
(1+00) 6' Rt. = 1/2 Channel	6.3	407.6	
1+00	44	409.5	
0+84	6.5	407.4	
(0+35) 10' Lt.	7.6	406.3	
(0+35) 4' Rt. = 1/2 Channel	10.4	403.5	
0+35 = N Bank Channel	8.9	405.0	
0+25 = 1/2 Channel	11.2	402.0	
0+22 = S Bank Channel	11.3	402.6	
(0+00) 13' Lt. = 1/2 Channel to R.F.	13.6	400.3	
0+00	12.76	401.14	
12.76	413.90		401.14

B<sup>+</sup> LINE LEVELS

Cont. P-20

T.P. 1274	438.35	0.06	425.61
3+02 E. side Chan.	4.6		421.1
on Hub in ch.			
2+99.12 = 1 Rt 34' 15"	4.80		420.87
2+75	6.6		419.1
2+63	7.5		422.2
(2+50)	1.0		424.7
1/2 Channel			
(2+50) 9' Rt.	7.1		418.6
2+50	5.2		420.5
2+25	3.9		421.8
2+07.58 = P.O.T. on 1" x 1" x 14" Redwood	5.25		420.42
1/2 Channel			
(2+00) 17' Rt.	12.7		413.0
(2+00) 10' Lt.	4.6		421.1
2+00	7.3		418.4
1+89	10.8		414.9
1+77	13.6		412.1
			425.67
B.M. on Hub 4+13.44	P-12		

B<sup>o</sup> LINE - Cont. from P. 19

8<sup>o</sup> LINE

20

Cont. Rt Page				
4+41		12.1	450.7	
T.P.	12.36	462.78	0.16	450.42
(4+25) 10' Lt.		6.2	444.4	
(4+25) 10' Rt.		+ 2.0	452.6	
4+25		2.8	447.8	
4+09		4.6	446.0	
(3+75) 10' Rt.		6.8	443.8	
(3+75) 10' Lt.		13.4	437.2	
3+75.68 - POT on 1" x 1" x 14" Redwood		28.1	440.77	
T.P.	12.83	450.58	0.60	437.75
3+60		0.4	438.0	
(3+50) 10' Lt.		6.1	432.3	
(3+50) 10' Rt.		+ 0.1	438.5	
3+50		2.9	435.5	
(3+25) 10' Rt.		5.1	423.3	
(3+25) 10' Lt.		11.5	426.9	
3+25		8.0	430.4	
Cont. from P. 19		438.35		

Cont. P. 21		
(6+50) 10' Lt.	11.2	451.6
(6+50) 10' Rt.	7.9	459.9
6+50	8.1	459.7
(6+28) 10' Lt.	8.1	454.7
(6+28) 10' Rt.	5.6	457.2
6+28	5.8	457.0
(6+00) 10' Lt. - Rim Canyon	5.7	457.1
(6+00) 10' Rt.	4.3	458.5
6+00	4.5	458.3
(5+50) 10' Lt.	5.9	456.9
(5+50) 10' Rt.	4.0	458.8
5+50	4.7	458.1
5+14.07 - POT. - 5+19.18 POT	7.75	455.01 - P. 17 455.03
(5+00) 10' Lt.	11.4	451.4
(5+00) 10' Rt.	6.7	456.1
5+00	8.3	459.5
4+81	10.5	452.3
4+64	10.8	452.0
		462.78



"B" Line

"B" Line

(10+00) 3' Lt. on Paving	6.08	461.3
10+00	5.9	461.5
9+50	6.0	461.4
(9+00) 3' Lt. on Paving	6.65	460.75
9+00	6.7	460.7
(8+58) 17.5' Lt. on Flow Line M.H. on Right	6.93	460.46
(8+58) 17.5' Lt. = Existing Sewer M.H.		
8+58		
T.P. 6.56	467.39	1.95 460.83
(8+22) 3' Lt. on Paving	2.50	460.3
8+22 = Beg. Pav. 3' Lt	1.9	460.9
8+00	1.7	461.1
7+50	1.8	461.0
(6+94) 10' Lt	2.0	460.8
(6+94) 10' Rt	4.5	458.3
6+94 = Top Fill of	2.5	460.3
(6+78) 10' Lt.	2.2	453.6
(6+78) 10' Rt	2.8	454.0
6+78 = Toe Fill	2.9	453.9

462.78

Cont. on P. 29	
16+00	5.98 463.64
15+36.60 - Δ 48°24'15"	5.55 463.57
15+00	5.96 463.16
(14+62) 7' Lt. on cb	6.09 463.03
14+62	5.88 463.24
T.P. 5.71 462.12	463.39 (P. 14 16+18.56)
14+26.70 - Δ Rt 46°13'15"	3.98 463.41
14+00	4.3 463.1
13+50	4.9 462.5
(13+00) 100' Lt	5.8 461.6
13+00	5.0 462.4
12+50	5.1 462.3
(12+00) 100' Lt.	6.0 461.4
12+00	5.1 462.3
(11+24) 3' Lt on Paving	5.32 462.07
on Hub	
11+24.15 - Δ Rt 70°58'30"	5.38 462.01
(11+00) 3' Lt. on Paving	5.61 461.78
11+00	5.2 462.2
10+50	5.4 462.0

467.39

Proposed  
"B" line Sewer  
in Acacia Park

INDEXED

"B" Line

Fd. Nail = P.I.

17+09.74

$\Delta Lt. 13^{\circ}34'30''$  22

6+110.3 - P-35

5+5684 EC.  
FB.1854-4

15  
20

Choctaw Cr.

$59^{\circ}48'30''$

15+36.60  $\Delta Lt. 8^{\circ}24'15''$

(6+78.11  
FB.1854-4)

Fd. Nail in Piping  
15+36.60  
 $\Delta Lt. 8^{\circ}24'15''$

CATOGTIN

E.C.  
7+85.3  
FB.1854-4

Fd. P.S. Nail  
10. Pcc.

14+26.70 =  $\Delta Rt. 46^{\circ}13'15''$

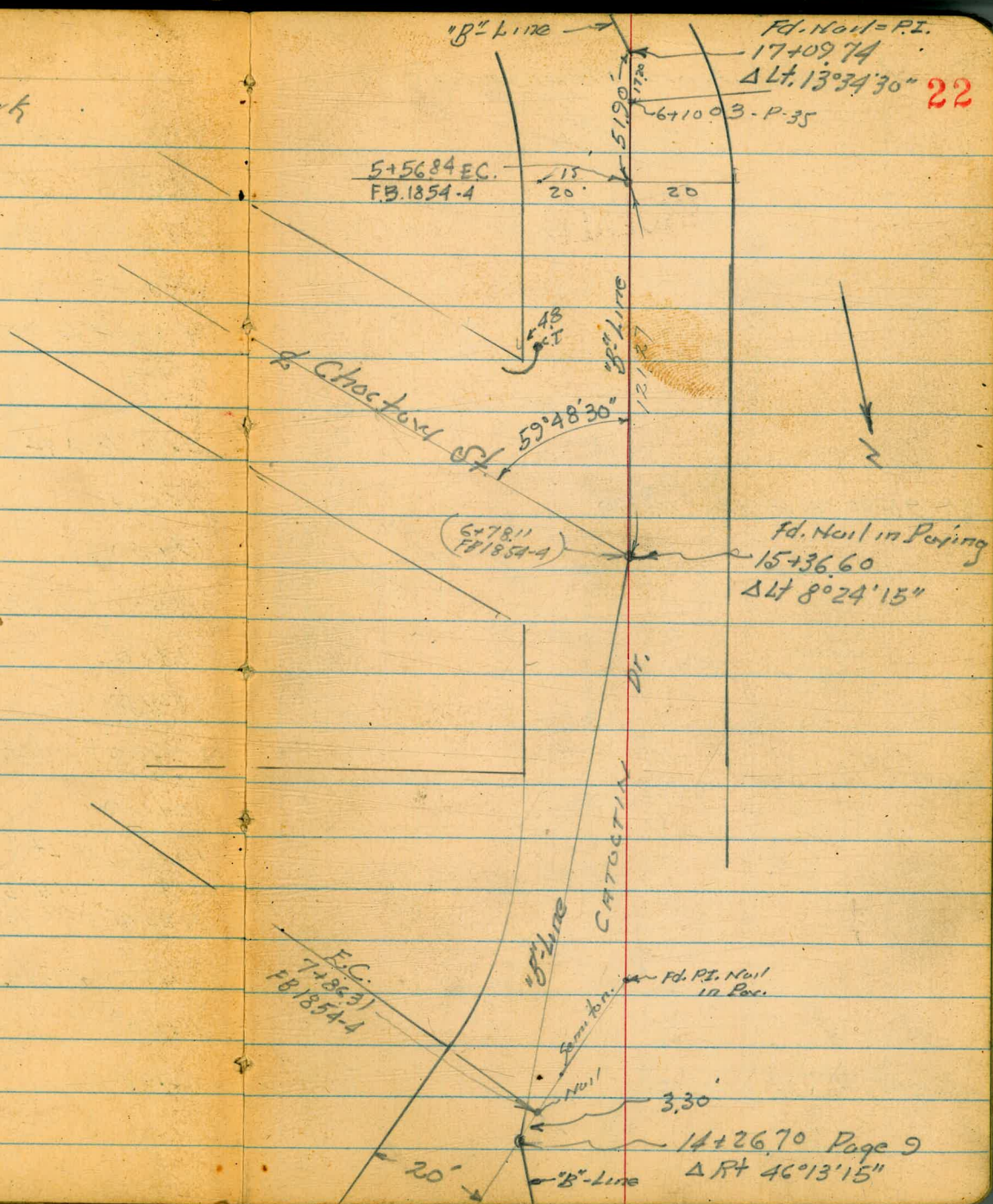
Cont. from P-9

3.30

14+26.70 Page 9  
 $\Delta Rt. 46^{\circ}13'15''$

20'

"B" Line



Location Proposed Sewer

"8" Line

El Cajon Blvd.

North Prop Line

Contd P 24

20+95.80 Δ 4 136°13'30"

2+434.2  
2+429.8

422'

12'

24.3'  
House

"8" Line

Conc. Drive

12'

43°46'30"

43°46'30"



20+95.80  
21+17.8

663

DR

(0100  
FR1854-2)

CH. DIST. 114.16'

BC

1+7485 FR1854-2

Δ 3°37'

R=980

T=3094

L=61.86

EC 2+3671

2+2481 BC  
Δ 3°50'  
R=1020  
T=3413  
L=68.24

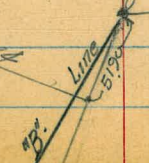
PI

4+5338  
Δ 11°24'  
R=520  
T=5190  
L=103.46

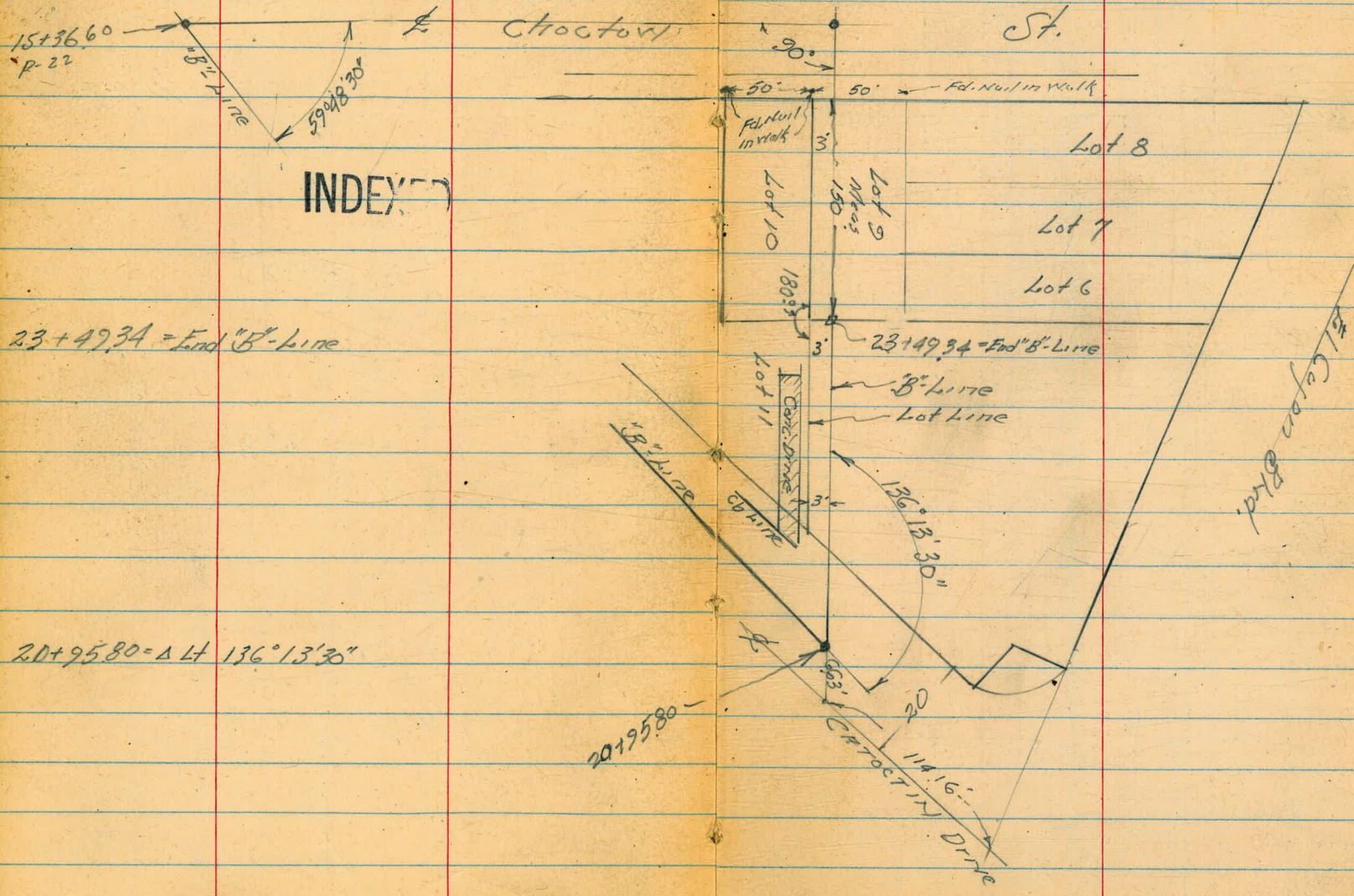
PI

17+09.74 Δ 4 13°34'30"

PI=17+09.74  
Δ 4 13°34'30"



Proposed Location  
"B" Line Sewer  
in Acacia Park



15+36.60  
P-22

INDEX

23+49.34 = End "B" Line

20+9580 = Δ Lt 136°13'30"

2019580

St.

Lot 8

Lot 7

Lot 6

Cogan Blvd.

B-Line  
Lot Line

Lot 11  
Cogan Drive

Lot 10  
180'

Lot 9  
Acacia  
150'

Lot 8  
F.d. Nail in Walk

30°

23+49.34 = End "B" Line

136°13'30"

20'

114.16'  
Drive

20'

20'

20'

20'

20'

20'

20'

20'

20'

20'

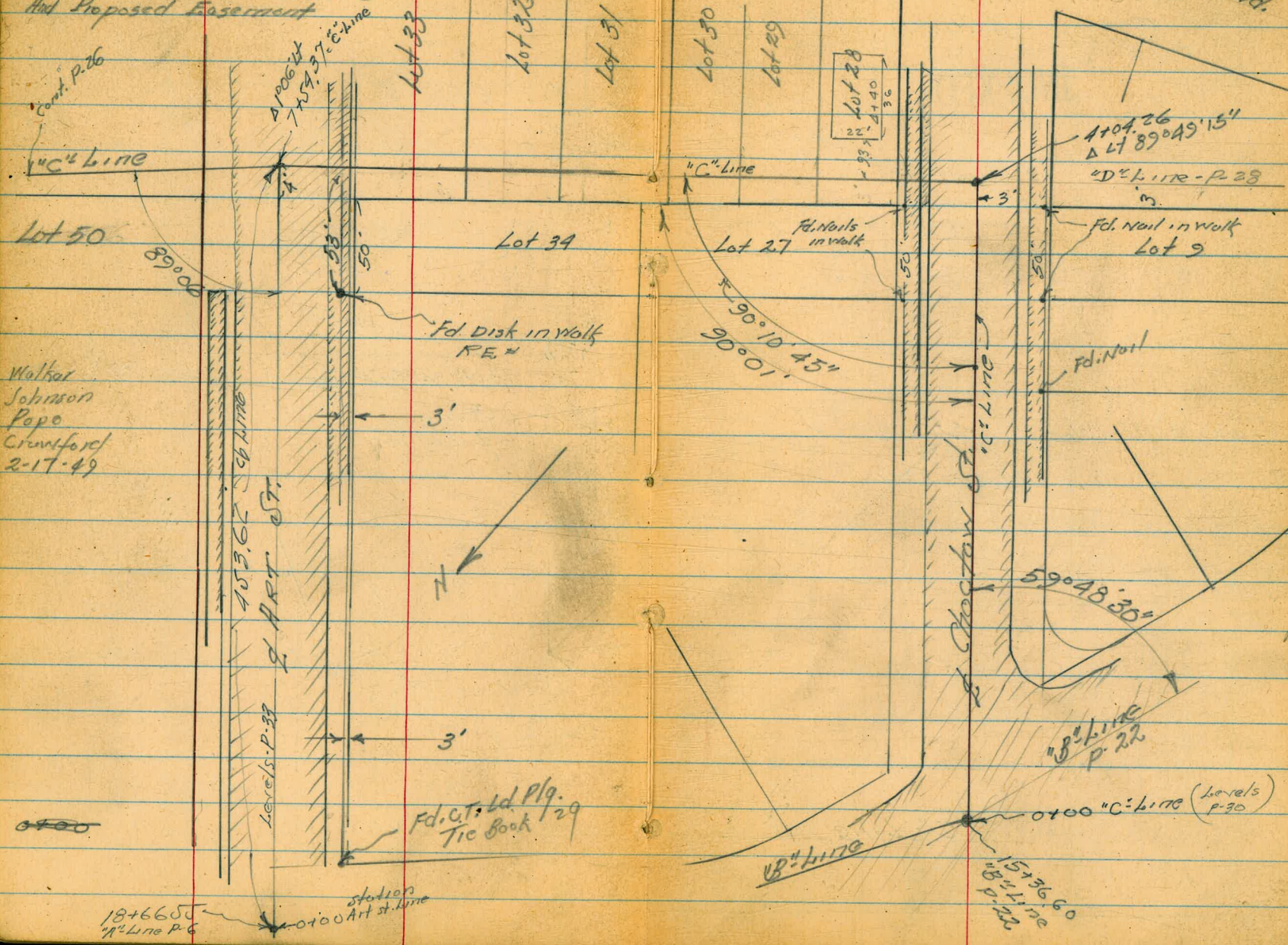
20'

20'

**"C" Line INDEXED**  
 LOCATION PROPOSED SEWER

IN CHOCTAW ST.  
 And Proposed Easement

El Cajon Blvd. **25**



Walker  
 Johnson  
 Pope  
 Crawford  
 2-17-49

Fd. C.T. Ld. Plg.  
 Tie Book 129

18+66.50  
 'A' Line P. 6

15+36.60  
 'B' Line P. 22

Station 0+00 Art st. line

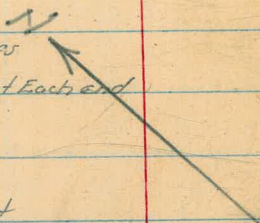
0+00 "C" Line (Levels P. 30)

"C" Line  
Location Proposed  
Sewer - Acacia Park

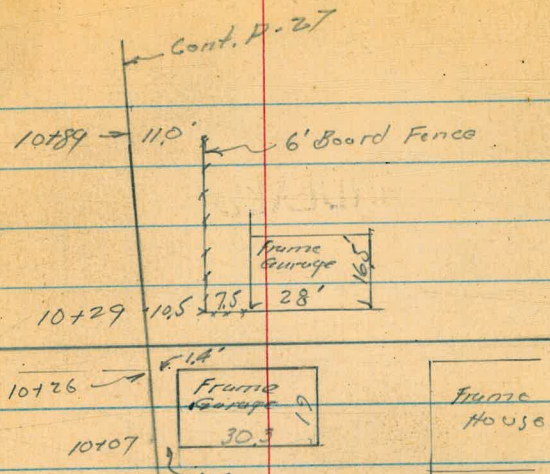
INDEXED

APP 107 "A" line p. 6  
21+45 Station

- 9+02.5 = End Conc. Slab
- 8+81 = Beg. Conc. Slab
- 8+73 = 12" Euc. Tree 15' ht.
- 8+56 = 8" Euc. Tree 15' ht.
- 8+40 = 10" Euc. Tree 28' ht.

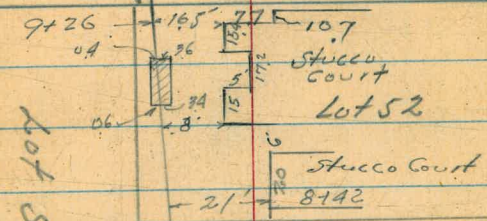


"C" Line  
25'  
25'



Lot 1  
Alvarado  
Heights

125'



89°06'

V ART 4' 7+54.37  
At 1+06 ST

EL CHUON BLVD.

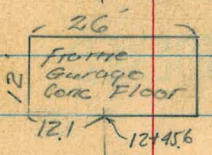
"C"-Line  
Cont. from p. 26

Auto Court

14131

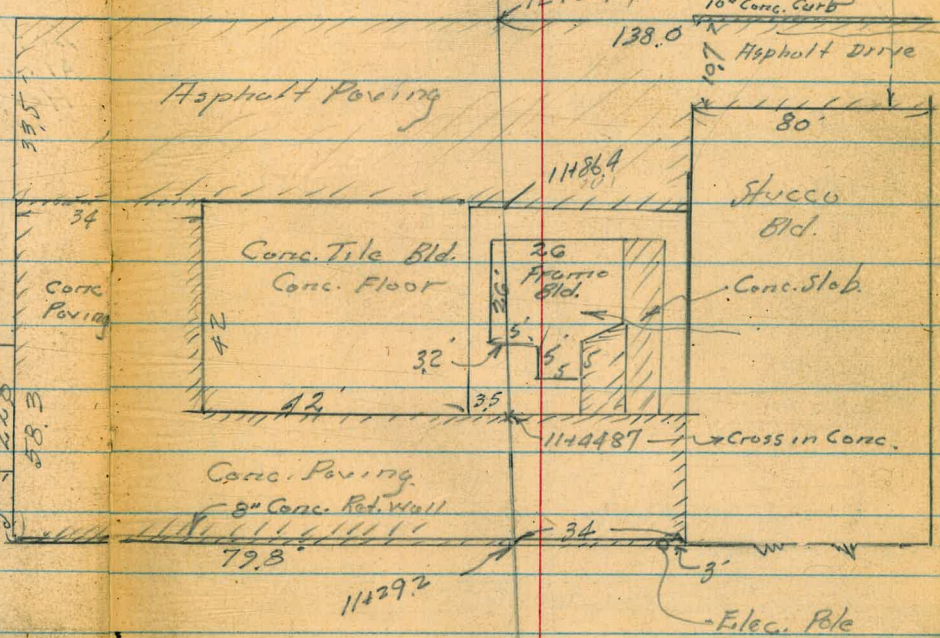
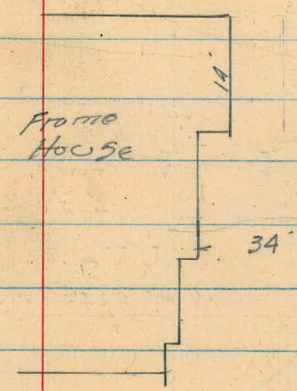
814

McB. El Cajon



12.5

12+20.87 Set Nail in Paving,  
10" Conc. Curb  
138.0  
10' Asphalt Drive



"C"-Line

Walker  
Johnson  
Pope  
Crawford  
2-18-49

"D" Line  
Location Proposed Sewer  
in Acacia Park  
(Levels P. 34)

INDEXED

1+75 = Int. 6' Board Fence

1+56 = Elec Pole 13' R/L

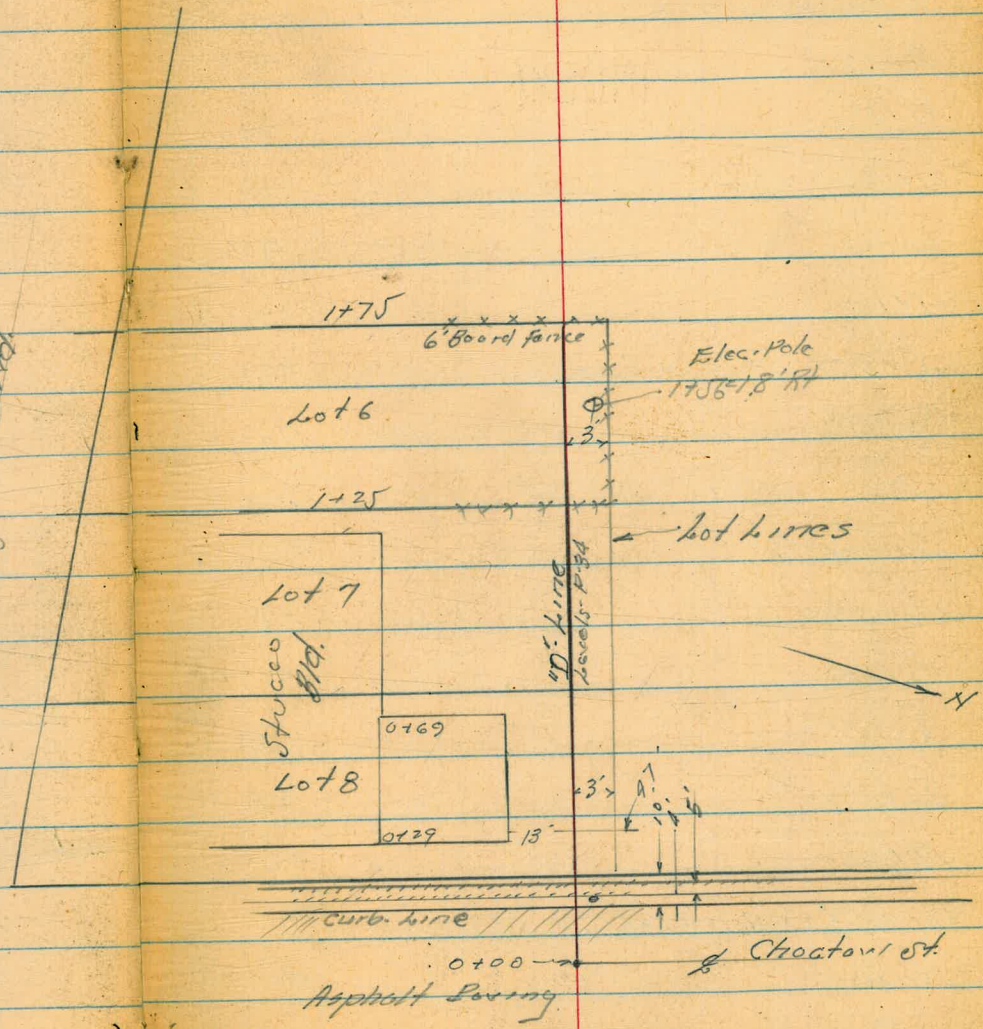
1+25 = Int. 6' Board Fence

0+29.5 = Int. Street Iron Fence

0+17.4 = Elec. Pole 2.8' R/L # P. 77600

0+00 =  $\frac{1}{2}$  Choctaw

El Cajon Blvd



1+75

Lot 6

1+25

Lot 7

Stucco Bldg.

Lot 8

0+69

0+29

6' Board Fence

Elec. Pole  
1756-1.8' R/L

lot lines

"D" Line  
Levels - P. 34

Curb Line

0+00

Asphalt Paving

Choctaw St.



"B" Line Cont. from P. 21

(22+543) 4.7' 4" on Drive	519	469.76
22+00	53	469.7
21+50	54	469.6
(21+178) 4.5' 4" on curb = Drive	515	469.80
21+15	48	465.2
21+10	56	469.4
20+95.80 = Δ L 136° 13' 30"	467	465.28
20+50	484	465.11
TP 489 469.95	406	465.06
20+00	424	469.88
19+50	427	469.85
19+00	444	469.68
18+50	473	469.39
18+00	490	469.22
17+50	505	469.07
17+09.74 = Δ L 13° 34' 30" Hub + Dist	496	469.16
17+00	506	469.06
16+50	533	463.79

462.12

"B" Line

29

BP. 1144. Est. Copors. & Collection 001  
 465.66  
 Check starting BM P-10 428 465.67

23+49.34 = End on Hub	404	465.91 P-34
23+00	47	465.3
22+50	55	469.5

469.95

Levels "C" Line Proposed Sewer  
Location P-25

Cont. Rt Page

4+50	46	469.4
5+75 = End Luth House 11' Rt		
4+79 = Beg. Luth House 11' Rt		
4+28.3 = E edge Walk	445	464.59
4+23.3 = West edge Side Walk	452	464.52
4+20.7 <sup>Guy</sup> Pole 5.2' Lt		
4+19.76 = Gut. in Drive	507	463.97
T.P.	445	467.04
4+19.26 = Ely Gut. Chockoff	537	464.59
4+04.26 Alt 89°49'15"	568	464.28
3+50	560	464.36
3+00	551	464.95
2+50	547	464.49
2+00	555	464.41
1+50	576	464.20
1+00	609	463.07
0+50	635	463.41
0+17 Gut Line on Pav.	715	462.81
0+00 = Connection to Chockoff	639	463.57
	639	462.96
		463.57

"C" Line

Cont P-31

30

8+00	84	460.6
7+75	80	461.0
7+70	71	461.9
7+66 = E edge Parking - E Art St.	749	461.55
7+54.37 = Alt 1°06	711	461.93
7+39.37 = Wcb. in Drive	765	461.39
7+38 = Elec Pole 6.4 Lt.		
7+35.9 = E Side Walk	698	462.06
7+30.4 = West side Walk	621	462.13
7+27 = End Wire Fence 7' Rt.		
7+00	62	462.8
6+50	58	463.2
6+32 = Beg. 5' Wire Fence 6.5' Rt.		
6+00	52	463.8
5+50	51	463.9
5+00	46	464.4
		469.04
		15+36.60 P. 21

"C" LINE

"C" LINE

(10+26)	450' Lt.	62	459.4
"	400' Lt.	59	459.7
"	350' Lt.	60	459.6
"	300' Lt.	58	459.8
"	250' Lt.	52	460.4
"	200' Lt.	50	460.6
"	150' Lt.	44	461.2
"	100' Lt.	54	460.2
"	50' Lt.	57	459.9
10+26 - Approx 3' W of E.L. Lot 1		56	460.0
(10+07) 1' R.R. Conc. Floor Garage		480	460.80
10+00		50	460.6
(9+50) 100' Lt.		47	460.9
9+50		45	461.1
9+02.5 on Conc. Slab		440	461.20
8+81 on Conc. Slab		431	461.29
8+50		48	460.8
T.P. 437	46560	781	461.23

Cont. from P. 30  
469.04

14+00	47	459.6
13+75	39	460.4
13+50	41	460.2
13+00	42	460.1
12+57.6	49	459.9
12+45.6	48	459.5
12+20.87 = POT. Nail	469	459.56
11+86.4 = Reg. Asphalt Pav.	482	459.43
T.P. 537 464.25	672	458.88
11+44.87 = POT. - Fin. Conc. Slab	632	459.28
(11+30) 120' Lt.	78	457.8
(11+30) 100' Lt.	77	457.9
11+30 on Conc. Slab.	637	459.23
11+29.3 on Top Ret. Wall	609	459.53
11+29.2	72	458.4
11+00	69	458.7
10+50	62	459.4
(10+26) 510' Lt.	612	459.48
(10+26) 500' Lt.	62	459.4

46560

"C"-Line

32

0.02

461.74 = PH

Check 18+66.55 P-1A

491 461.72

T.P.

6.89 466.63

451 459.74

(12+20.87) 138' RT = NGut. E. / Cajon

489

459.36

14+31 = at Back end Auto. Court Bldg.

5.7

158.6

464.25

Walker  
Johnson  
Pope  
Crawford  
2-18-49

Profile Levels: Proposed Sewer  
in E. ART. ST.  
from Cotoctin to El Gujon  
(Location P-25)

33

## INDEXED

6+00	4.09	462.56
5+50	4.40	462.25
5+00	4.62	462.03
4+53.62 = P.O.T. - Int "C" Line 748937	4.74	461.91 <sup>461.93 P-30</sup>
4+00		
3+50	5.00	461.7
3+00	5.12	461.53
2+50	5.19	461.46
(2+00) 200' Lt.	6.6	460.1
(2+00) 100' Lt.	6.0	460.7
2+00	5.82	461.13
1+50	5.40	461.25
1+00	5.55	461.10
0+50	5.56	461.00
0+16 - Gut.	5.94	460.71
0+00	4.91	461.74
4.91	466.65	461.74

B.M. on Nail 18+66.55 P-14

Walker  
Johnson  
Pope  
Crowford  
2-18-49

Profile Levels  
Proposed Sewer  
"D" line  
(Location P-28)

34

CHK 23+49.3 P-29	4.19	465.91
1+75	4.4	465.7
1+50	4.3	465.8
1+00	4.4	465.7
0+50	5.1	465.0
0+24 = N edge Walk	5.52	464.58
0+19 = E edge Walk	5.58	464.82
0+15 = in Gut in Ditch	6.19	463.91
0+00	5.82	464.28
5.82 470.10		464.28

B.N.G. Nail in Post. 410426 P-30



## LOCATION EXISTING SEWER

With Line of Proposed Sewer

as Located P-3

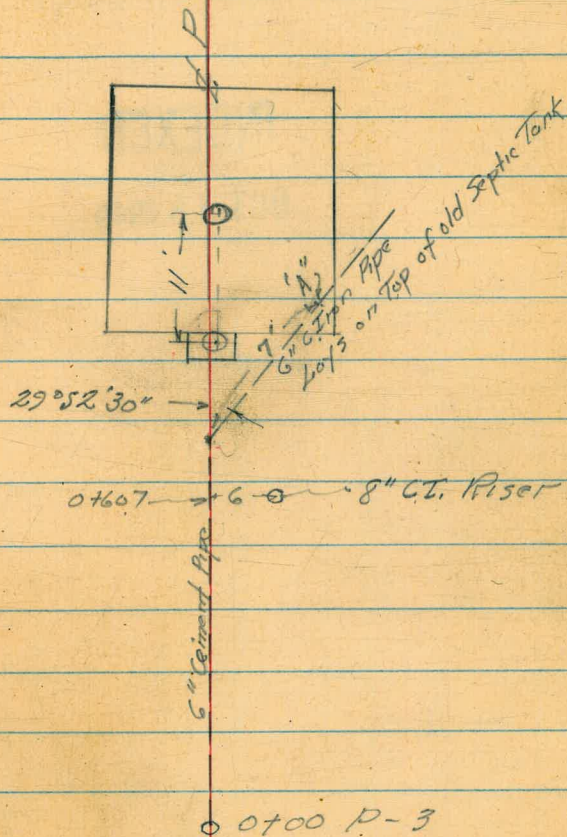
Point "A" on Top 6" CI. Pipe	4.60	387.11	
0+83 Rm Abandoned MH	5.39	386.32	
0+72 Top Septic Tank	5.22	386.49	
0+68.5	5.04	386.67	
(0+60.7) 6' Rt. on Top 8" Riser	4.61	387.10	
0+00			
B.M. Rm MH	3.59	391.71	388.12

(0+72) 0.3' Rt. = Existing MH. Broken up & Filled With Sand

P.O.T. Proposed Sewer

0+68.3 = Exact  $\angle$  Elbow  $\Delta$  29°52'30" To Existing C

0+00  $\angle$  Existing MH. Page 3





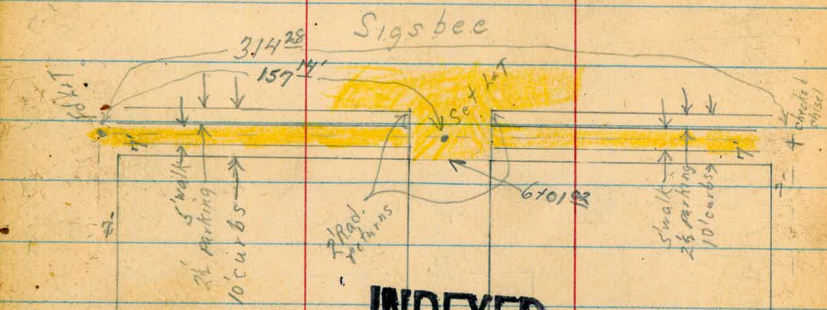
D. Smith  
 C. Sommermeyer  
 C. Allen  
 J. Rorer

Cross Sec Alley BIK 132  
 Manasse + Schillers

Ally  
 117 W. Cor

WO# 31728  
 10-11-49

37



NOTES REDUCED by MORGAN 10-25-49

**INDEXED**  
 N.Y.C.  
**OCT 18 1949**

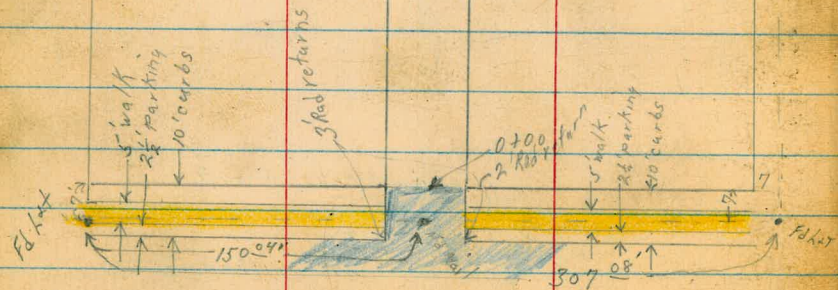


132

BIK.

National

Newton



Concrete  
 AC paving

16th St

X Sec Alley B/K 132  
Manasse + Schillers

Lt = North

W# 31728  
10-11-49 38  
Rt = South

0765

36  
37  
39  
47  
32  
36  
34  
26  
10  
8  
10

0755

521  
05  
10L  
Cor. Floor

45  
47  
28  
25  
10  
10  
9mm  
Floor

0739 10° RT NW cor corrugated garage con floor

33  
42  
10  
32  
41  
6  
35  
38  
22  
10  
45  
28  
10

0730

0727 8½ RT & Power pole # PA 1616

0727 RT & dead man

0707 8½ RT & dead man

0700 10° Lt Begin Bldg, concrete

0700 East Prop 16th St Edge AC paving -03 Pack

319  
407  
416  
424  
10L  
747  
271  
455  
438  
92  
94  
811  
410  
92  
Card

0-10 East cb line 16th St

327  
399  
50  
477  
50  
94  
501  
425  
10  
501  
10  
94  
225  
519  
519  
515  
10  
94  
209  
431  
10  
94  
478  
548  
50  
94  
478  
478  
50  
94

BM 544

726

182 NW BP 16th +  
Newton

726

cont.

1460

1450 8<sup>E</sup> RT & power pole #PA 1640

JP 12<sup>44</sup> 17<sup>77</sup> 193 193 5<sup>33</sup>

1448 10<sup>L</sup> LT Begin 6' board fence

1425 10<sup>L</sup> LT SE cor house

1417 10<sup>R</sup> RT Begin 7' high corrugated fence

1416 9<sup>E</sup> RT Northwly of 36" palm

1404<sup>S</sup> 10<sup>R</sup> LT SW cor frame house

0493 East rail

0488<sup>3</sup> West rail of spur track

0475 10<sup>R</sup> LT End con bldg.

0475 9<sup>R</sup> RT NW cor corrugated garage

LT

10 <sup>L</sup>	11 <sup>3</sup>	11	10 <sup>R</sup>	10 <sup>G</sup>
15	10	11	10	15
7.7	6.5	5.5	7.0	7.2

17<sup>77</sup>

2 <sup>L</sup>	1	2 <sup>R</sup>	1 <sup>L</sup>
10 <sup>L</sup>	7	7	10
5.2	5.0	5.1	5.7

162	102
5.59	4.5
floor	ground

299
4.27
West rail

297	298	298	34	309
20	10	10	10	20
4.29	4.27	4.28	4.5	4.7

38
ground

38
ground

7<sup>26</sup>

cont.

2137<sup>2</sup> 10<sup>1</sup> Lt SE cor frame house

2135 9<sup>2</sup> Lt westerly 2' con walk

2125 9<sup>2</sup> Rt Begin cyclon + 5' fence

2113 9<sup>2</sup> Lt west edge 2<sup>d</sup> con walk + step

2113 10<sup>2</sup> Lt SE cor house

2101 10<sup>1</sup> Lt SW cor frame house

2100 8<sup>2</sup> Lt Begin 4<sup>1</sup>/<sub>2</sub>' high picket fence

1778<sup>2</sup> 05 Rt 2  
Sewer M/H.

1775 04 Rt End corrugated fence

1763 9<sup>2</sup> Lt End 6' high board fence

Lt

Rt

Rt

40

12.90  
481  
706  
Floor

11.83 11.48 11.3 10.8 10.8  
594 622 65 70 70 62 58 54  
102 92 92 7 7 10 15  
walk walk ground

11.55 11.06 10.3  
622 671 75  
106 90 90  
walk step ground

11.94 583  
10<sup>1</sup> Floor  
73 75 81 83 72 72  
15 10 8 10 15  
10.5 10.3 9.7 9.5 10.1 10.6

860  
917  
Ym

17 77

cont

3494 10<sup>5</sup> Rt E 12 frame house (abandon)

3464<sup>5</sup> 8<sup>8</sup> Rt E Power pole # PA 1678

3450

3425 E took dirt sample

3419 11<sup>2</sup> Lt E single garage dirt floor

3400 10<sup>3</sup> Lt End cyclone fence

2476<sup>5</sup> 9<sup>0</sup> Rt E power pole no number

2475 10<sup>0</sup> Rt End cyclone fence

2470

2450 9<sup>5</sup> Lt Begin cyclone fence

2450 9<sup>2</sup> Lt End picket fence

2450 10<sup>3</sup> Lt 5 w cor house

Lt

E

Rt

41

151  
32  
105  
944  
151  
217  
105  
1 floor

	13.6	13.4	13.1	13.4	13.7
42	44	44	42	44	41
15	10		10	15	

49  
119  
Floor

3.3	13.0	12.6	12.6	12.6	15.7	13.6
45	48	52	52	52	41	42
15	10	8	7	10	15	

12.2	12.4	12.1	11.8	12.2	12.7	13.0
56	54	52	60	56	51	48
15	10	8	8	10	15	15

17 77

cont

ht

R

RT

42

5705

1891	1661	1561	1551	1561	1651
56	72	82	90	82	82
15	10	6		10	15

5702 9<sup>2</sup> RT & power pole

5700 9<sup>6</sup> Lt End board fence

159	157	1531	1551	1621
86	80	92	90	83
15	10		10	15

TP 9<sup>30</sup> 24<sup>51</sup> 25<sup>6</sup> 15<sup>31</sup>

24<sup>51</sup>

4450 10<sup>3</sup> Lt Begin 6' board fence

304.8	44	34.3	47	51
32	34	35	36	22
15	10		10	15

4428 10<sup>8</sup> RT & 2 1/2' con wall

14.78  
299  
108  
wall

4424 10<sup>5</sup> RT NE cor house

35  
105  
ground

4406 10<sup>9</sup> RT NW cor frame house on con pillars

37  
141  
148  
104  
104  
floor  
ground

4400

41	13.9	136	137	143
32	32	42	41	35
15	10		10	15

17<sup>77</sup>

cont.

Lt.

S

RT

43

BM.

056

2325

2324 NEOP  
National +  
Sigsbee

1962

1936

1877

1860

1838

1902

1772

1831

6+11<sup>02</sup> West obline Sigsbee

509 535 594 611 633 569 622 640  
50 10 10 10 10 50 50  
drive put curb put curb put curb

6+01<sup>03</sup> West Prop Sigsbee St. Edge con paving  
6<sup>1/2</sup> East. curbs top

1945 1912 1881 2681 1926  
516 549 580 569 535  
10 10 11m 10<sup>2</sup> 10<sup>2</sup>  
curb put curb curb

5498<sup>2</sup> westerly con slab around MH 4' wide

1861 1901 1761 1731 1221 1811

5470

48 56 70 73 74 63  
15 10 9 10 15

5468<sup>5</sup> 10<sup>2</sup> Lt SE cor bldg

1061 56  
10  
ground

5452<sup>5</sup> 10<sup>2</sup> Lt SW cor con foundation garage to  
service station non floor

6261 1841  
422 61  
10  
ground

5440

1161 1881 1691 1871 1211 1741  
48 62 82 83 83 72  
10 10 7 10 15

24 51

X Section Everts from Oliver to Thomas

12/20/49 Cold & high wind

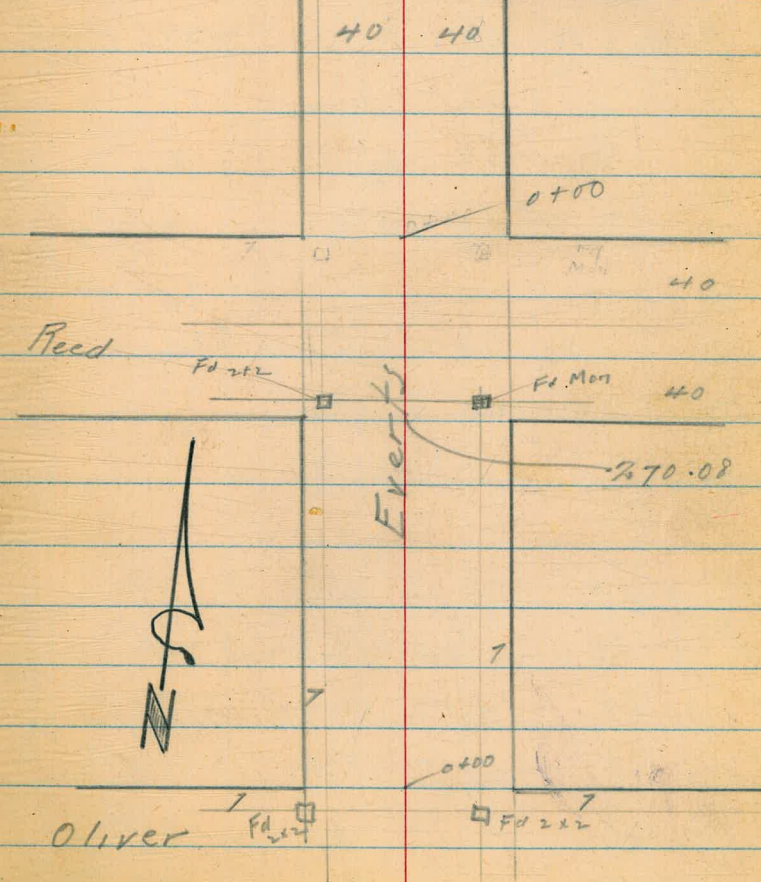
Begg  
Sherman  
Crawford

INDEXED  
M.K.  
DEC 21 1949

BP N.W.  
BM Everts & Garnet 39.53

Oliver & Dawes N.W. curb 3.10

Thomas  
sidewalks  
& curbs complete  
Paving  
Fd. Tack 7  
side walks  
& curb. complete  
2 + 69 48





## Everts

1 + 39 26 Lt Acas 19 6'

West

East

0 + 25 Pine 2" 26 RT

0 + 19 Acasid? 25.7 Lt 8"

0 + 00 NA Oliver 4.5 RT Pine 2"

133	138	142	141	143	151
5.5	5.0	4.8	4.7	4.0	3.7
40	20		12	15	40

- 40 9 Oliver

126	136	145
6.2	5.2	4.7
40		40

0 - 80 5 line Oliver

126	129	140
6.2	5.9	4.8
40		40
	18.76	

TP 7.72 18.76 0.60 11.04

TP 8.52 11.64 11.61 3.12

TP 1.63 14.73 12.07 13.10

TP 1.12 25.17 8.69 24.05

TP 0.71 32.74 9.93 32.03

2.43 41.96 39.53

310 Oliver & Dowel NW curb  
202

Everts &amp; Garnet N.W BP

Reduced 2-23-50  
John H. Hinchey

Everts

2 + 00

1 + 87

40.8 Lt bag cypress Hedge end of fence

1 + 50

1 + 43

Bag fence 40.8 171

X + 23

21 Lt P. 42 24 Pale

1 + 22

Pine 1" 25.5 R

1 + 15

40.1 171 7 Wide strip conc

1 + 00

25.5 Pine 3"

0 + 98

2.5 Conc Walk

0 + 87

25.2 Ac 6"

0 + 77

25.3 R Pine 2"

0 + 68

25.5 Lt Ac 8"

0 + 58

25.4 Lt Ac 8"

0 + 50

26 R 2" Pine

18.76

163  
2.5  
40  
154  
3.4  
40

162  
2.1  
15  
152  
2.9  
15

164  
2.4  
162  
2.8

169  
1.9  
15  
162  
2.7  
15

173  
1.5  
40  
162  
1.9  
40

46

148  
4.0  
40

150  
3.8  
15

153  
3.5

158  
3.0  
15

146  
4.2  
40  
162  
2.6  
40

168  
2.00

145  
4.3  
40

141  
4.1  
20

148  
4.0

141  
4.1  
15

142  
3.9  
15

152  
2.9  
40

18.76

Everts

3 + 50<sup>08</sup>

N Line Reed

3 + 31<sup>08</sup>

3 + 10<sup>08</sup>

of Reed

2 + 90<sup>08</sup>

2 + 70<sup>08</sup> S Line Reed end of cypress 3954

2 + 50

9.95

27.66

1.05

17.71

18.76

47

197

8.0  
40

189

8.8  
40

185

9.2  
40

180

9.7  
40

176

10.1  
40

173

10.5  
40

195

8.2  
15

187

9.0  
15

187

9.0  
15

180

9.7  
15

177

10.0  
15

173

10.4  
15

195

8.2

188

8.9

187

9.0

184

9.6

176

10.1

173

10.4

202

7.7  
15

196

8.1  
15

182

8.8  
15

184

9.3  
15

172

10.0  
15

172

10.0  
15

192

7.8  
40

196

8.1  
40

192

8.5  
40

187

9.0  
40

182

9.7

172

10.0  
40

Mon. SE cor 7x7 line Dawes & Everts

27.66

18.76

2 + 24 1.2 wide conowalk

2 + 20

0 + 78.4 10.5 conc apron 40.4 Lt.

0 + 78.5 40.4 Lt end wall

1 + 50

1 + 45 Beg conc brick wall 40.2 Lt.

1 + 00 6.5 conc Rib

0 + 99 41 Lt conc Rib 6.5 wide

0 + 50

27.66

25.30  
 2.36  
 40  
 25<sup>2</sup>  
 2.7  
 40  
 24.53  
 3.13  
 40.4

25<sup>3</sup>  
 2.4  
 15

25<sup>3</sup>  
 2.4  
 15

25<sup>2</sup>  
 2.0  
 15

24<sup>8</sup>  
 2.9  
 40

48

24<sup>5</sup>  
 3.2  
 40

23<sup>2</sup>  
 3.8  
 15

23<sup>2</sup>  
 4.0

24<sup>1</sup>  
 3.6  
 15

23<sup>2</sup>  
 4.0  
 40

22<sup>3</sup>  
 5.4  
 40

22<sup>1</sup>  
 5.0  
 15

22<sup>1</sup>  
 5.6

22<sup>5</sup>  
 5.2  
 15

22<sup>1</sup>  
 5.6  
 40

22<sup>36</sup>  
 5.30  
 41

20<sup>2</sup>  
 6.8  
 40

20<sup>2</sup>  
 6.8  
 15

21<sup>2</sup>  
 6.7

21<sup>1</sup>  
 6.6  
 15

21<sup>2</sup>  
 6.7  
 40

27.66

9.90	40.98	1.46	39.52	29.53
		0.30	31.08	29.01
7.35	31.38	3.63	24.03	
		3.68	23.98	

BM. Everts & Garnet

7' Tack SE Thomas & Everts BM.

3+09 48 S Thomas

22.82	23.49	23.96
4.84	4.17	3.70
50		50

2+89 48 curb line

23.08	22.45	22.55	22.92	23.18	23.34	23.40	23.44	24.17
4.58	5.21	5.11	4.74	4.48	4.32	4.26	4.22	3.49
50	50	40	30	40	30	40	50	50
cb	BC curb							cb

2+69 48 S line Thomas

23.39	22.73	23.14	23.22	23.82
4.27	4.93	4.52	4.44	3.84
cb	21.9		21.8	cb
	9		9	

2+59 48

25.1	25.9	23.5	23.6	23.8	26.2	26.2
2.0	1.8	4.2	4.1	3.9	1.7	1.5
40	27	20		18	25	40

2+25

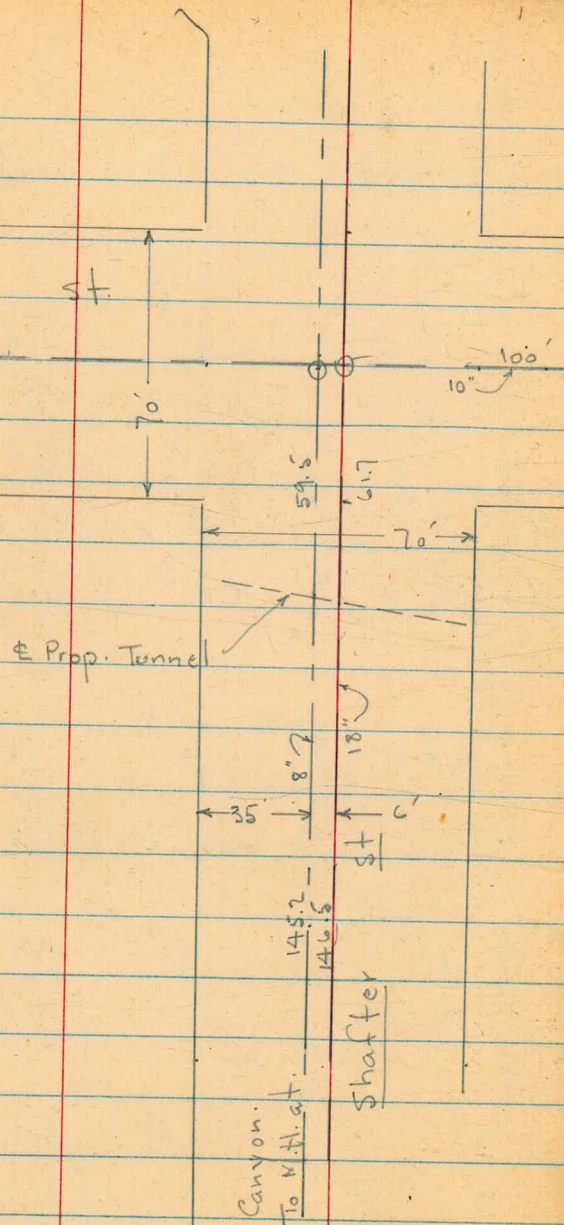
25.2	25.1	25.9	26.4	25.2
2.5	2.0	1.8	1.3	2.5
40	15		15	40
		27.66		

27.66  
w

INDEXED

W.K.  
JAN 4 1950

Addison St



50

Ang.  $9^{\circ}12'30''$

Prop. Tunnel

35'  
Set stub.

$58^{\circ}$

Note: Pipe ends - 1'  
w. of E of M.H.

70'

66'



Levels on Existing Sewer lines  
in Shafter & Addison to check Grade  
at Prop. Tunnels across St.

# 3525 1-3-50 - 7.0

W.O. 20006

INDEXED

W.K.  
JAN 4 1950

Sw. Canyon + Shafter

B.M. 3.97 6.54 2.57

I.E. W. M.H. Canyon + Shafter = 8" - 1.48 -

" E. " " = 18" " - 9.79

I.E. W. M.H. Addison + Shafter = 8" - 2.48

" E. " " " = 18" - 10.05

Bottom  
Top of 10" Pipe in above MH - 6.45  
(to E)

Top. of Pipe - 4' W. of  $\Phi$  MH. - 3.29

By Bldg.

stub. 10' E. of  $\Phi$  of Prop. Tunnel + sewer.

stub. +1.07 - 5.29

Top Sewer - 4.22

6.54

51

I.E. of 8" sewer at  $\Phi$  of Prop. Tunnel in  
shafter - 2.19

Ground + 1.84

I.E. of 18" Sewer at  $\Phi$  Prop. Tunnel in shafter

Sewer - 9.97

ground + 1.80

see sketch for Dist. + location of Tunnels

Set B.M. = Spike in Sw. Pole - Shafter + Addison

B.M. = - 3.20 3.54

X- Sec. Copley  
Mt. View Dr. East to lot #163 Normal Hgts

Lot 163  
Normal Hgts

52

Sommereyer  
McCoy  
Allen

3-22-50  
W.O. 31416

INDEXED  
W. K.  
MAR 27 1950

G = gutter

cb. = Top of curb

E.G. = outside edge of 3' wide Conc. gutter.

Map # 985

F.B. 1222-58  
1245-56  
1A04-92

3512-L  
5180-L

Tie sheet 4000

Soil sample 7' Lt. of Sta. 3+00

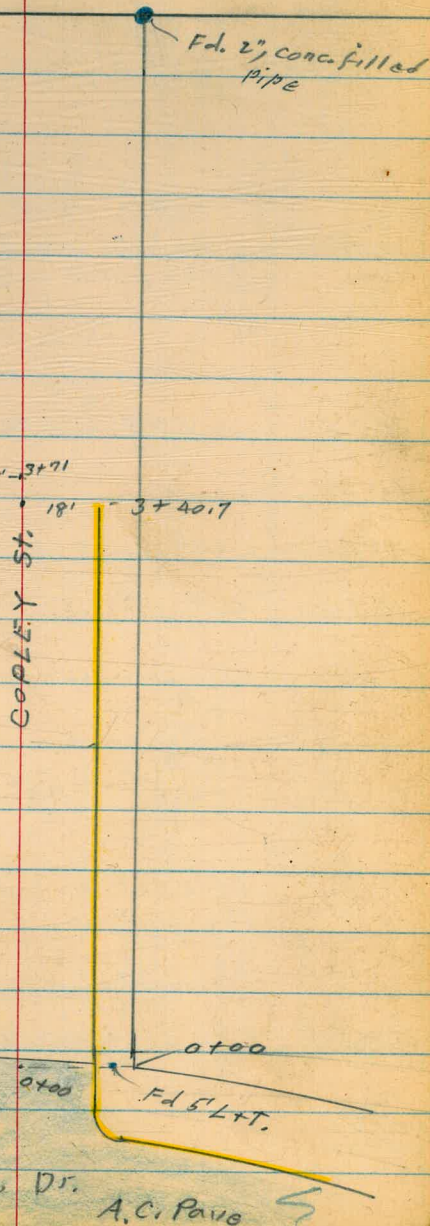
" " 4' at Sta. 5+00

See page 60 for check  
on bench elevation

C.H.S.  
3/30/50

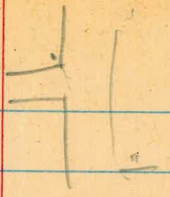
3' wide Conc. gutter  
Poor condition.  
Should come out.

East Mt. View Dr. A.C. Pave





0+50



0+01<sup>5</sup>

17<sup>2</sup>Lt. = End A.C. Pavc. Also Face of Cb.  
 14<sup>2</sup>Lt. = start 3' wide Conc. gutter.  
 (this gutter mostly in poor shape)

0+00<sup>9</sup>

= End A.C. Pavc. on t

0+00<sup>7</sup>

17<sup>2</sup>Rt. } Face of Cb.  
 = End A.C. Pavc. + :

0+00 = 90° to S.E. Prop. Mt. View Dr. + Copley

0-15 =

18' Rt. }  
 18' Lt. } = approx. E.C. Cb. Ret.

Cb. = top of curb  
 G = gutter

0-25

28' Lt. }  
 28' Rt. } = G.C. 10' Rad. Cb. Ret.  
 Ely. Cb. line Mt. View Dr.

NE.B.P.  
 Copley  
 Mt. View Dr.

3.87

397.70

393.81

B.M.# 1

(389.42 page 60)

393.31

397.70

<del>5.17</del>	<del>5.90</del>	<del>5.63</del>	<del>5.6</del>	<del>5.1</del>	<del>5.7</del>	<del>6.1</del>	<del>5.17</del>
5.17	5.90	5.63	5.6	5.1	5.7	6.1	5.17
179	179	E.G.	6	6	6	179	179
cb.	G	E.G.	6	6	6	G	cb.
<del>388.14</del>	<del>391.80</del>	<del>392.07</del>	<del>392.7</del>	<del>392.7</del>	<del>392.0</del>	<del>391.6</del>	<del>392.53</del>
388.14	391.80	392.07	392.7	392.7	392.0	391.6	392.53
389.39	393.08	388.69	393.22	388.83	389.0	393.1	388.14
389.39	393.08	388.69	393.22	388.83	389.0	393.1	388.14
3.92	4.62	4.48	4.3	4.3	4.6	3.96	3.96
179	179	149	4.3	4.3	4.6	179	179
cb.	G	E.G.	4.3	4.3	G	cb.	cb.
<del>389.74</del>	<del>393.08</del>	<del>392.7</del>	<del>392.7</del>	<del>392.7</del>	<del>392.7</del>	<del>392.7</del>	<del>392.7</del>
389.74	393.08	392.7	392.7	392.7	392.7	392.7	392.7
389.39	393.08	388.69	393.22	388.83	389.0	393.1	388.14
389.39	393.08	388.69	393.22	388.83	389.0	393.1	388.14
4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27
4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27
389.04	389.04	389.04	389.04	389.04	389.04	389.04	389.04
389.04	389.04	389.04	389.04	389.04	389.04	389.04	389.04
4.56	3.95	4.53	4.53	4.53	3.95	3.95	3.95
G	cb.	G	G	G	cb.	cb.	cb.
179	172	179	179	179	172	172	172
393.78	389.39	392.7	392.7	392.7	389.22	392.7	389.36
393.78	389.39	392.7	392.7	392.7	389.22	392.7	389.36
3.92	4.53	4.53	4.53	4.53	3.95	3.95	3.95
18	18	18	18	18	18	18	18
cb.E.C.	G	G	G	G	cb.E.C.	cb.E.C.	cb.E.C.
<del>393.78</del>	<del>393.78</del>	<del>393.78</del>	<del>393.78</del>	<del>393.78</del>	<del>393.78</del>	<del>393.78</del>	<del>393.78</del>
393.78	393.78	393.78	393.78	393.78	393.78	393.78	393.78
389.39	393.78	393.78	393.78	393.78	389.22	393.78	389.36
389.39	393.78	393.78	393.78	393.78	389.22	393.78	389.36
4.00	3.94	4.53	4.42	4.04	4.31	4.45	3.87
80	28	28	18	18	18	28	80
G	cb	G	G	G	G	G	G
<del>393.78</del>	<del>393.78</del>	<del>393.78</del>	<del>393.78</del>	<del>393.78</del>	<del>393.78</del>	<del>393.78</del>	<del>393.78</del>
393.78	393.78	393.78	393.78	393.78	393.78	393.78	393.78
389.39	393.78	393.78	393.78	393.78	389.22	393.78	389.36
389.39	393.78	393.78	393.78	393.78	389.22	393.78	389.36

53

Copley St.

\$

54

3+40<sup>I</sup> - 18 Rt. = End of Conc. Ch.

5.80	<del>5.80</del>	6.20	5.6	5.9	6.0	5.90	6.3
18	18	15	8	18	18	18	30
cc	cc	E.G.			cc	cc	
<del>381.32</del>	<del>381.32</del>	<del>380.56</del>	<del>381.5</del>	<del>381.2</del>	<del>381.1</del>	<del>381.22</del>	<del>380.81</del>
381.32	381.32	380.56	381.5	381.2	381.1	381.22	380.81

3+37 - 17 Rt. = ctr. 1 sq. yd. Conc. to come out.

4.83	5.57	5.32	5.0	4.9	5.6	4.95
18	18	15	6	6	18	18
cc	G	E.G.				cc
<del>382.29</del>	<del>385.94</del>	<del>381.5</del>	<del>381.8</del>	<del>382.1</del>	<del>381.5</del>	<del>382.17</del>
382.29	385.94	381.5	381.8	382.1	381.5	382.17

3+00 - 7' Lt. = Soil sample taken

4.51	4.51	4.20	3.9	4.4	3.77
172	172	149	172	172	172
cc	G	E.G.			cc
<del>387.00</del>	<del>387.00</del>	<del>387.3</del>	<del>383.2</del>	<del>381.7</del>	<del>387.74</del>
387.00	387.00	387.3	383.2	381.7	387.74

2+50

T.P. 3.89 391.51 10.08 387.62

8.64	9.47	9.16	8.9	7.5	8.76
179	179	149	179	179	179
cc	G	E.G.			cc
<del>389.06</del>	<del>388.23</del>	<del>388.54</del>	<del>388.8</del>	<del>388.2</del>	<del>388.94</del>
389.06	388.23	388.54	388.8	388.2	388.94

2+00

1+50

7.43	8.24	7.98	7.9	8.3	7.57
179	179	149	179	179	179
cc	G	E.G.			cc
<del>385.27</del>	<del>385.88</del>	<del>384.72</del>	<del>385.4</del>	<del>389.4</del>	<del>385.11</del>
385.27	385.88	384.72	385.4	389.4	385.11

1+00

6.27	7.08	6.81	6.6	6.9	7.2
179	179	149	179	179	179
cc	G	E.G.			cc
<del>391.43</del>	<del>386.62</del>	<del>390.89</del>	<del>386.7</del>	<del>386.8</del>	<del>386.1</del>
391.43	386.62	390.89	386.7	386.8	386.1

~~397.98~~

386.87

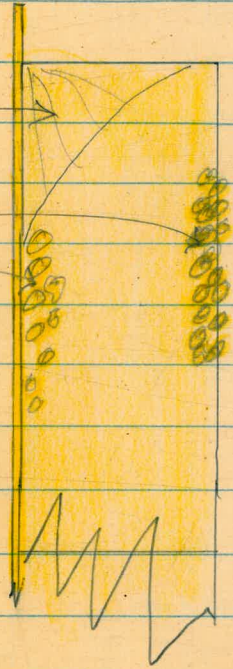
3+53 (Can not get to it)  
 (Conc. gutter on left. covered)

3857.6	3857.1	3857.1	3857.2	3857.2	3857.2	3857.2
580.77	580.7	580.7	580.8	580.8	580.8	580.8
2.44	2.5	2.1	2.4	2.9	2.4	3.0
18	13	10	18	30	30	60
cc	Ord.					

3+71 = End of curb.  
 3+67 = End of rough mortar  
 + Conc. gutter

This Conc. gutter should come out.  
 Not to be considered for grade.

Rough Conc. slab.  
 Broken conc. pave.  
 put in gutter + along gutter to control flow of water.



3+49 = Break in gutter grade

T.P. Nail in pole #3650 1.31 387.60 5.22 386.29 BM #1

3+49 } = Break in grade of Conc. gutter  
 15' RT.  
 15' RT.

3855.48	3854.71	3850.1	<u>387.60</u>
6.0	6.80	6.50	
18	18	15	
cc	G	E.G.	
			<u>391.51</u>

T.P. 0.76 376.44 11.92 375.68

4+19 Edge canyon 70' Rt.

<del>385.2</del>	<del>385.7</del>	<del>385.7</del>	<del>386.5</del>	<del>384.6</del>	<del>361.0</del>	<del>365.4</del>	<del>362.1</del>	<del>366.6</del>	<del>363.0</del>	<del>364.4</del>	<del>364.4</del>	<del>360.4</del>
2.4	2.5	2.9	19.3	23.0	22.2	21.0	21.0	20.2	18.8	18.8	18.8	22.8
50	40	30	29	22	22.2	15	15	30	45	45	45	70

4+00 41' Rt. = edge canyon

<del>377.6</del>	<del>374.5</del>	<del>374.5</del>	<del>372.5</del>	<del>374.8</del>	<del>368.6</del>	<del>369.0</del>	<del>363.7</del>	<del>368.1</del>	<del>363.8</del>	<del>368.2</del>	<del>362.7</del>	<del>366.7</del>
3.0	3.1	3.1	14.1	18.8	18.6	18.6	19.5	19.5	19.4	19.4	21.9	21.9
50	30	27	26	15	15	15	30	30	50	50	71	71

3+95 30' Lt. = line of fence.

3+85 72' Rt. = Rim of canyon

<del>384.6</del>	<del>382.0</del>	<del>385.7</del>	<del>374.2</del>	<del>374.2</del>	<del>371.2</del>	<del>370.4</del>	<del>370.4</del>	<del>369.4</del>	<del>362.4</del>	<del>366.7</del>	<del>366.7</del>
1.0	1.6	2.5	11.3	16.4	16.4	17.0	17.0	17.7	20.8	20.8	20.8
50	30	19	8	8	8	17	17	30	72	72	72

3+75 75' Rt. = Rim of canyon

<del>381.5</del>	<del>381.2</del>	<del>381.2</del>	<del>379.9</del>	<del>375.5</del>	<del>372.9</del>	<del>369.7</del>	<del>364.8</del>	<del>362.0</del>	<del>362.4</del>	<del>366.7</del>	<del>366.7</del>
1.7	2.0	2.0	3.3	7.7	7.7	13.5	13.5	18.4	21.2	21.2	21.2
50	30	25	17	8	8	20	20	30	75	75	75

3+72 17' Lt. = Δ in picket fence

3+71 18' Lt. = End Conc. Cl.

3+70 19' Lt. = start picket fence

<del>381.5</del>	<del>380.64</del>	<del>378.6</del>	<del>379.2</del>	<del>380.3</del>	<del>381.4</del>	<del>377.4</del>	<del>370.0</del>	<del>365.3</del>	<del>367.6</del>
1.7	2.57	4.6	4.0	2.9	1.8	6.8	13.2	20.0	20.0
50	18	14	8	8	7	11	30	80	80
3.37	3.8059	3.81.2	3.81.2	3.75.5	3.72.9	3.69.7	3.64.8	3.62.0	3.62.4
18	end cl.								

3+68

slab on left. - should come out.

3+67 end of Conc. gutter + rough Conc.

4.51	3.83	.21
16	74	
in gutter		
<hr/>		
287.60		

T.P. 3.07 363.72 9.06 360.65

5+76

352.6	357.3	355.7	356.3	360.2	354.8	336.7
13.1	12.4	14.0	13.4	9.5	14.9	33.0
30	20		18	30	68	72

5+75

359.8	356.6	357.7	356.3	360.2	354.8
7.9	13.1	12.4	13.4	9.5	14.9
82	30	20	18	30	72

Top of bank

Rim of Canyon

5+66 ± 10' Lt. = Ch. 4'x4' pump house

375.7

5+57

+6.0  
190

361.4	359.7	361.9	361.8	362.1	356.5	355.9
8.3	10.0	7.8	7.9	7.6	13.2	13.8
71	43	38	30	26	14	30

Canyon rim

5+53 - 7' Lt. = p. pole + pump house vent pipes

5+25

367.0	360.9	360.4	362.4	362.0	361.7	358.8	358.9	357.4
2.7	8.8	9.3	7.3	7.7	8.0	10.9	10.8	12.3
80	67	30	23	9	15	30	72	72

Top of bank

Rim Canyon

5+00 - 6 = soil sample taken

366.5	361.3	361.4	361.8	361.9	363.5	364.3	360.7	360.2
3.2	8.4	8.2	7.9	6.8	6.2	5.4	7.0	7.4
77	55	30	20	15	30	43	67	67

Top of bank

Rim of Canyon

4+50 T.B. = top of bank

379.32	366.22	359.7	359.8	360.6	361.9	361.3	362.7	364.7	358.8	358.9	357.4
306.9	370.7	364.1	364.2	365.0	361.9	363.5	364.3	360.7	360.2	360.2	360.2
+13.0	+1.0	5.6	5.5	4.7	3.4	2.6	0.6	6.5	6.4	6.4	6.4
52	50	30	10	25	30	40	57	73	73	73	73

Edge Canyon

4+44

19' Lt. = pole #3676

T.P. 1.63 369.71 8.36 368.08

376.44

365.32  
369.71

East end. + So. line Capley  
 Set B.M. 2" Conc. filled pipe 7.03 367.72  
 T.P. 11.84 374.75 0.81 362.91

58

6+23

360.0	557.1	5358.3	360.6	360.7	360.6	357.7
<u>3.7</u>	<u>6.2</u>	<u>5.4</u>	<u>3.1</u>	<u>3.0</u>	<u>3.1</u>	<u>6.0</u>
65	30	15	30	15	30	64
70e-bank						Canyon Rim

6+20

3357.7	357.8	350.8	349.0	345.3	340.6	357.5
<u>6.0</u>	<u>5.9</u>	<u>12.9</u>	<u>14.7</u>	<u>18.4</u>	<u>3.1</u>	<u>6.2</u>
30	14	12		30	32	64
						Canyon Rim

6+16

157.9	157.6	150.2	149.0	345.2	340.7
<u>5.8</u>	<u>6.1</u>	<u>13.5</u>	<u>14.7</u>	<u>18.5</u>	<u>23.0</u>
30	16	14		30	50

6+13

357.2	356.4	351.2	351.1	357.7	359.5	360.7	360.5	347.1
<u>6.5</u>	<u>7.3</u>	<u>12.5</u>	<u>12.6</u>	<u>6.0</u>	<u>4.2</u>	<u>3.0</u>	<u>3.2</u>	<u>19.6</u>
30	17	15	7	5		5	25	30

6+09

357.3	357.1	351.7	351.7	358.2	359.2	360.5	360.3	346.2	333.7
<u>6.4</u>	<u>6.6</u>	<u>12.0</u>	<u>12.0</u>	<u>5.5</u>	<u>4.4</u>	<u>3.2</u>	<u>3.4</u>	<u>19.5</u>	<u>30.0</u>
30	24	18	15	11		5	28	30	75

6+08

357.8	357.3	357.1	351.7	351.7	358.2	359.3	360.5	360.3	344.2
<u>5.9</u>	<u>6.4</u>	<u>6.6</u>	<u>12.0</u>	<u>12.0</u>	<u>5.5</u>	<u>4.4</u>	<u>3.2</u>	<u>3.4</u>	<u>19.5</u>
70	30	24	18	15	11		5	30	31

363.72

orig. B.M. P. 53      1.87    393.82    393.81

T.R      9.51    395.69    0.62    386.18

B.M. #1 P. 55      0.49    386.31    386.29

T.R      12.60    386.80    0.55    374.20

6+80

<del>377.4</del>	<del>370.6</del>	<del>369.9</del>	<del>362.1</del>
$\frac{67}{60}$	$\frac{42}{30}$	4.9	$\frac{12.7}{30}$
			Rim of Canyon

6+52

<del>377.4</del>	<del>360.4</del>	<del>358.8</del>	<del>359.7</del>	<del>361.6</del>	<del>370.2</del>	<del>366.0</del>	<del>352.0</del>
$\frac{3.4}{65}$	$\frac{12.3}{55}$	$\frac{16.0}{30}$	$\frac{15.3}{10}$	13.2	$\frac{4.5}{10}$	$\frac{8.8}{30}$	$\frac{12.7}{15}$
	too bank						Rim of Canyon

6+418

wly. line lot 163 Normal Hgt's.  
Ely and Coploy

<del>377.4</del>	<del>356.0</del>	<del>348.6</del>	<del>361.6</del>	<del>360.2</del>	<del>364.2</del>	<del>361.7</del>	<del>367.0</del>	<del>362.1</del>
$\frac{14.9}{60}$	$\frac{16.8}{30}$	$\frac{16.2}{10}$	13.8	$\frac{14.6}{8}$	$\frac{14.6}{20}$	$\frac{13.1}{28}$	$\frac{7.8}{30}$	$\frac{12.5}{50}$
too bank								Rim of Canyon

374.75

Bench check for  
Copley St. X-sec.

60

3/30/50

				-0.12 392.78
S.E.B.P. shown as 392.78		4.45		392.66
T.P.	6.25	397.11	3.78	390.86
T.P.	7.22	394.64	6.77	387.42
T.P.	4.17	394.19	5.03	390.02
S.W.B.P.	3.70	395.05	4.10	391.35
T.P.	6.03	395.45		389.42
N.E.B.P. (shown as 393.81 on P 53)		6.56		389.42 B.M. #1
S.W.B.P.	ss		4.89	391.09
T.P.	1.14	395.98	5.67	391.84
S.W.B.P.	ss		5.79	391.72
T.P.	4.66	397.51	4.27	392.85
T.P.	6.14	397.12	6.72	390.98
3.7	3.72	397.70	-	393.98

S.E.B.P. Mansfield + Adams

S.W.B.P. - E.Mt. View Dr. + Collier to west.

E.Mt. View Dr. + Copley to East.

E.Mt. View Drive + Copley - to west

Arthur + 35<sup>th</sup> (35<sup>th</sup> and/or Mt. View Drive)

S.E.B.P. Sidney Place + Mt. View Drive.



Garber  
Moore  
Clark

4/20/50

Grades - Sewer Outfall  
College Ave. & Mesita.  
(Under College Ave Fill)  
see P-2 W.O. 20558

386.34

+60.52

385.63

+37.46

385.15

Top Conc. S-Drain

7.73

+22.41

2.34

C-5.39

384.91

7.97

1+14.41

2.78

C-5.19

384.20

8.68

+91.35

4.44

C-4.24

383.49

9.39

D.M.H. #1

Ref. 8° Rt.

3.34

+68.30

25° Lt.

C-4.05

382.81

10.07

+45.54

5.76

C-4.31

382.12

10.76

+22.77

5.54

C-5.22

381.44

11.44

Existing M.H.

Ref. 0-35 on &

4.82

0+00

C-6.62

4.76 392.88

X

388.12

T.B.M. - East

Rim M.H.

0+00 (Walker)

61

Ref. 50<sup>00</sup> Turn produced

M.H. #2

Ref. 8.49 Rt. on split

390.61

+98.85

25.00 Rt. " "

21.17

+11.10

411.78

400.68

10.23

T.B.M.

C-10.94

+75.79

389.90

+52.74

389.19

+29.68

388.47

2+06.63

387.76

1+83.57

387.05

LHub 3.87

+42.50

$$\begin{array}{r} 399.23 \\ 12.55 \\ \hline 7.38 \\ C-5.17 \end{array}$$

W.H. #3

+86.15

$$\begin{array}{r} 407.85 \\ 11.19 \\ \hline 2.76 \\ 8.43-8.38 \end{array}$$

4+18.56

$$\begin{array}{r} 397.79 \\ 13.99 \\ \hline 8.95 \\ C-5.04 \end{array}$$

+62.21

$$\begin{array}{r} 406.41 \\ 12.63 \\ \hline 5.24 \\ 7.39 \end{array}$$

+94.61

$$\begin{array}{r} 396.36 \\ 15.42 \\ \hline 10.58 \\ C-4.84 \end{array}$$

+38.27

$$\begin{array}{r} 404.98 \\ 14.06 \\ \hline 7.22 \\ 6.84 \end{array}$$

+70.67

$$\begin{array}{r} 394.92 \\ 16.86 \\ \hline 11.54 \\ C-5.32 \end{array}$$

9.66 419.04 2.40 409.38

5+14.32

$$\begin{array}{r} 403.54 \\ 8.24 \\ \hline 2.40 \\ C-5.84 \end{array}$$

+46.73

$$\begin{array}{r} 393.48 \\ 18.30 \\ \hline 12.88 \\ C-5.42 \end{array}$$

+90.38

$$\begin{array}{r} 402.10 \\ 9.68 \\ \hline 4.67 \\ C-5.01 \end{array}$$

3+22.79

$$\begin{array}{r} 392.05 \\ 19.73 \\ \hline 13.26 \\ C-6.97 \end{array}$$

4+66.44

$$\begin{array}{r} 400.67 \\ 11.11 \\ \hline 6.67 \\ C-4.44 \end{array}$$

11.10 411.78

X

400.68 T.B.M.  
LHub 2+98.85

X-Sec. and sewer profile  
 Alley. Blk. 2 Stephens Add.

Sommermeyer  
 Begg  
 Allen.

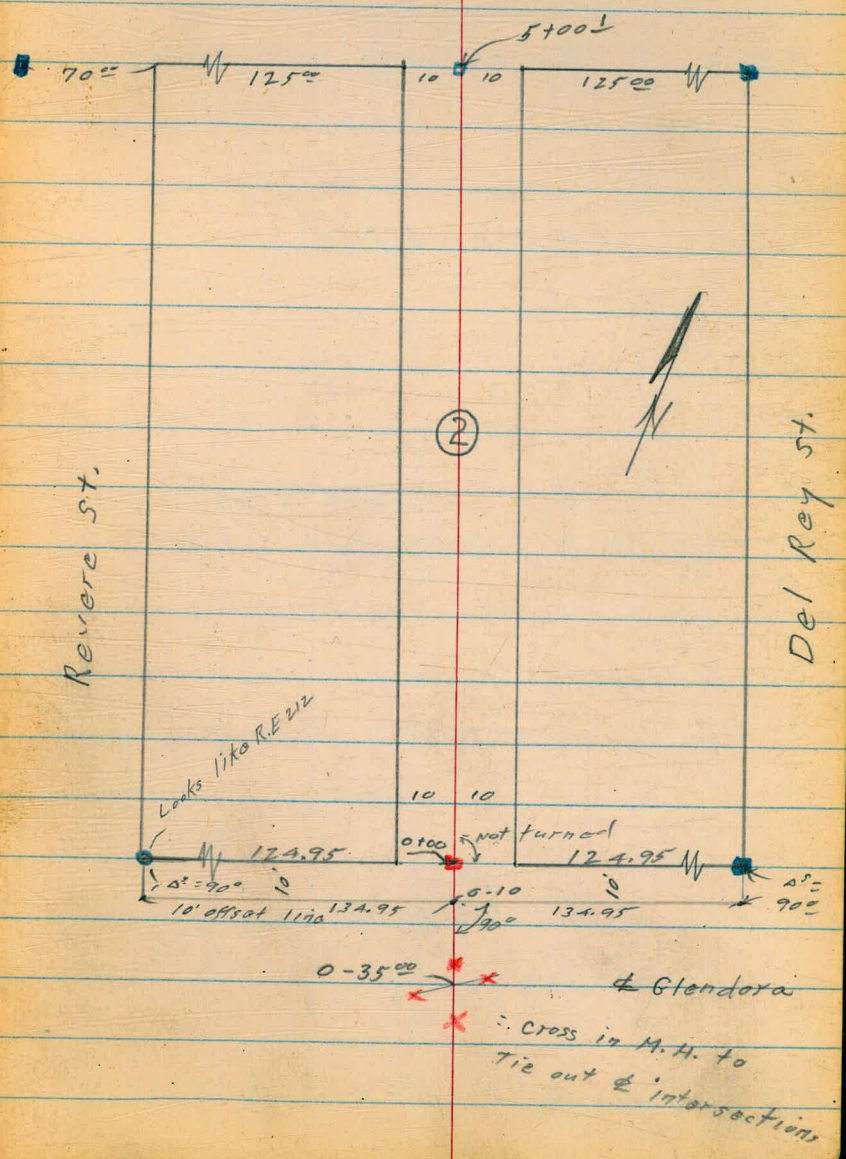
10-11-50  
 W.O. 62199

Bunker Hill st.

- = Fd. Conc. Man.
- = Fd. stub
- = Fd. 3/4" pipe
- = Set 1/2 + disk
- x = cross cut in M.H. Rim
- = Nail

FB. 1735

poles  
 out taken to property side of



0+2A 12<sup>7</sup> Ht. =  $\pm$  3' wide Conc. walk.

19.73	19.71	19.6	19.9	19.5
5.94	5.96	6.1	5.8	5.2
20	12.2	10.		10
walk				

0+20- 13<sup>0</sup> Ht. = end house

20.4	19.6
5.3	6.1
13	13
Floor Elev.	

0+11 13<sup>0</sup> Ht. = start house on Conc. foundation

19.5
6.2
13
end

10<sup>8</sup> Rt. = Pole # 450609 H  
 0+00 = N. Wly line Glendora

18.0	19.2	19.02	19.6	20.6
7.7	6.5	6.65	6.1	5.1
60	10	Hub	10	50

0-34 = N.Wly. edge M.H. Rim

18.00
7.67

0-35 =  $\pm$  Existing M. H.  
 see F. B. 1735 for intersections

4.46
21.21
1.5
<u>25.67</u>

1.73 25.67 — 23.94

Nly Prop. Mon. Del Rey + Glendora  $\frac{1735}{35443}$

1+50

17.3	19.3	20.7	21.0	21.4
<u>9.4</u>	<u>7.4</u>	<u>6.0</u>	5.7	<u>5.3</u>
110	50	10		10

1+13 16' Lt. = ± Sing. Car. dirt floor

20.0	20.6
<u>6.7</u>	<u>6.1</u>
16	10

1+03 - 7' ± = small pepper tree

1+00

17.1	19.2	20.3	20.6	20.6	22.1
<u>9.6</u>	<u>7.5</u>	<u>6.4</u>	6.1	<u>5.9</u>	<u>4.6</u>
110	50	10	<u>26.70</u>	10	50

T.P. 6.11 26.70 5.08 20.59

0+97 12' Lt. = end conc. slab

20.39	20.2
<u>5.28</u>	<u>5.5</u>
12	12
Conc.	End

for garage + work shop.  
0+73 - 12' Lt. = start Conc. slab floor

20.5 <sup>0</sup>	19.6
<u>5.31</u>	<u>5.9</u>
129	128
Conc.	End

0+50

17.2	16.8	19.7	19.9	20.5	21.6
<u>8.5</u>	<u>6.9</u>	<u>6.0</u>	5.8	<u>5.2</u>	<u>4.1</u>
110	50	10		10	50

25.67

2+50 Cont.

17.5	19.8
9.2	6.9
110	50

2+50 - 11' Lt. = end conc. foundation

20.8	21.55	21.59	21.3	21.4	21.80	22.00
5.9	5.15	5.11	5.4	5.3	4.9	4.7
24	23.5	11.7	11.5	10		10
Ord	T.F	T.F				

(T.F. = top of foundation)

2+27 - 10' Lt. = start conc. foundation for  
Bldg. under construction

21.41	21.10
5.23	5.6
12	12
Top. F	Ord

2+25

17.4	19.5	21.1	21.5	21.9
9.3	7.2	5.6	5.2	4.8
110	50	10		10

2+16

17.1	18.4	20.6	21.3	21.6
9.6	8.3	6.1	5.4	4.9
110	50	10		10

2+00 9' Lt. = Pole # A 4345

17.6	19.6	21.2	21.3	21.6	23.2
9.1	7.1	5.5	5.4	4.9	3.5
110	50	10		10	50

26.70

Alley BIK 2.

67

T.P. 5.57 30.80 3.52 25.23

3+50

<sup>20.3</sup> 8.5	<sup>21.7</sup> 7.1	<sup>22.9</sup> 6.0	<sup>23.2</sup> 5.6	<sup>23.3</sup> 5.5	<sup>23.7</sup> 5.1	<sup>24.6</sup> 4.2
110	50	16	10		10	50

3+49<sup>5</sup> - 16<sup>2</sup> Lt. = end Gar. + work shop.

<sup>19.7</sup> 9.1	<sup>21.7</sup> 7.1	<sup>22.0</sup> 6.8	<sup>22.3</sup> 5.5	<sup>23.1</sup> 5.1	<sup>24.6</sup> 4.2
110	16 <sup>3</sup> Ord	10		10	50

3+45 = <sup>16</sup> 2 Lt. = 9' door into garage.

<sup>21.8</sup> 6.9	<sup>21.7</sup> 7.1
16 <sup>2</sup> Floor	16 Ord.

3+30 - 16<sup>2</sup> Lt. = start Comb. Garage + Conc. foundation. work shop. Conc. floor. +

<sup>21.7</sup> 7.1	<sup>21.7</sup> 7.1	<sup>22.1</sup> 6.1	<sup>22.6</sup> 6.2
16 Ord.	10		10

3+00

<sup>17.9</sup> 10.9	<sup>20.0</sup> 8.8	<sup>21.6</sup> 7.2	<sup>21.7</sup> 7.1	<sup>22.0</sup> 6.8	<sup>23.4</sup> 5.4
110	50	10		10	50

T.P. 7.10 28.75 5.05 21.65

28.75

2+80 90' Lt. = 24<sup>5</sup> wide frame house

<sup>20.6</sup> 6.1	<sup>18.7</sup> 8.0
90 Floor	90 Ord
level	

26.70

Alley BIK/2  
Stephens Add.

68

EL 33.44  
F.B. 1735

50

Sly. Prep Mon. Del Rey & Bunker Hill.

0.03  
1.47 33.47 (33.44)  
T.P. 10.12 34.94 5.98 24.82

See FB 1735 for Bunker Hill St.

5+00<sup>l</sup> = Ely line Bunker Hill St.

4+85

18.6  
12.2  
110

20.6  
10.0  
50

23.9  
6.7  
10

24.82  
5.98  
Stub

26.8  
5.0  
10

29.4  
1.4  
50

24.7  
6.1  
10

25.4  
5.4

26.3  
4.5  
10

4+50

17.9  
12.9  
110

21.3  
7.5  
50

24.8  
6.0  
10

25.6  
5.2

26.4  
4.4  
10

4+00

20.6  
10.2  
110

23.1  
7.7  
50

25.0  
5.8  
10

25.2  
5.6

26.5  
5.3  
10

26.6  
4.2  
50

30.80



CROSS SECTION - ROSE ST.

Walker  
Pope  
Clark  
Huffman  
3-15-51

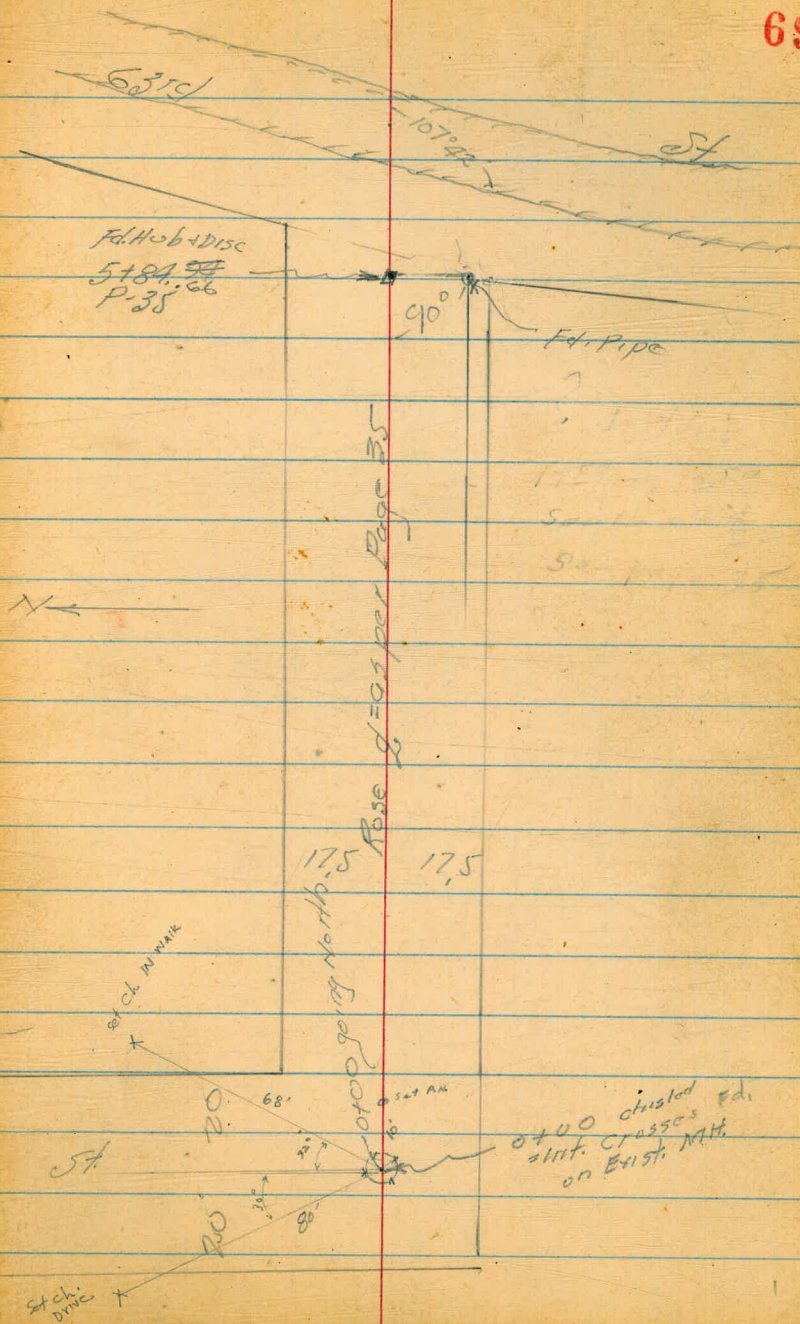
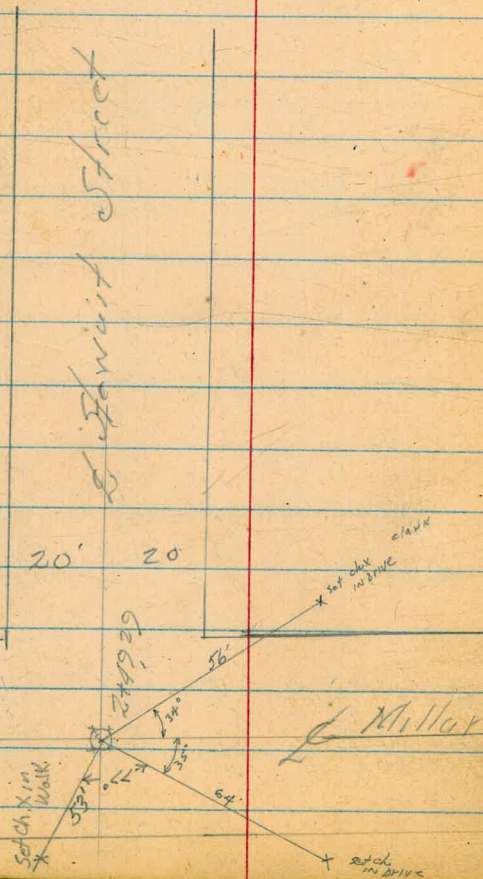
IMPROVED

MAR 19 1951

110 25020

FB 2226  
33

Reduced  
3-20-51  
Ryan



Rose St. Cross Sections

1700

0+62 = Big Wire Fence 13.1' RA

0+50

0+32.5 = Gate Valve 2' RA

0+31 = Fire Hydr. 14.3' Lt.

0+25 = Proposed East Line

0+00 = E Miller

0-25 = proposed w/ Miller

0-40

9.31 470.02 160.21

Lt. L. RA

70

465.6	465.0	464.9	465.3	465.7	465.7	465.7
4.1	5.0	5.1	4.7	4.3	4.3	4.8
35	22.5	14		12	27.5	40

464.2	464.0	464.5	464.1	464.2
5.8	6.0	5.5	5.9	5.8
35	22.5		27.5	40

463.7	463.7	463.9	463.4	463.6
6.3	6.3	6.1	6.6	6.4
35	22.5		27.5	40

463.2	463.4	463.35	463.1	462.7
6.8	6.6	6.7	6.9	7.3
35	22.5	RA M.H.	27.5	40

462.1	462.1	462.6	462.3	462.5
7.9	7.9	7.4	7.7	7.5
35	22.5 proposed opening line		27.5 proposed opening line	40

461.5	461.8	462.4	461.8	462.1
8.5	8.2	7.6	8.2	7.9
32	22.5		27.5 proposed opening line	40

470.02

2 Nails Pole  
B.M. on TP #19 - P

Pole  
S side Hubert  
Produced  
Approx. 50 W of Miller.

Rose St - Cross Section

3+49 = Beg. Frame House on Rt 26.5' Rt.

3+74 = 1/2 Garage on Rt.  
 = 1 Guy Pole 11' Rt.

3+34 = End Wire Fence 11.5' Rt.

T.P. 4.33 467.81 454 465.48

3+00 = W. edge of Single Garage on Lt. 465.59  
 4.43

35  
 Proposed  
 Conc. Floor  
 under  
 Const.

2+50

2+25

2+00

1+70

1+50

470.02

464.9 465.2 465.46  
 4.9 4.6 4.35  
 467.81 27.5 6.9  
 DIRT Drive Conc. Floor Garage

464.2 464.1 465.6 465.6 465.3 465.2 465.2  
 6.0 5.1 4.4 4.4 4.7 4.8 4.8  
 35 22.5 13 12 27.5 40  
 Ground at Garage

465.2 465.4 466.2 465.7 465.8  
 4.8 4.6 4.0 4.3 4.2  
 35 22.5 27.5 4.0

466.6 466.5 465.9 465.8 465.7 465.9  
 3.4 3.5 4.1 4.2 4.3 4.1  
 35 22.5 14 27.5 4.0

465.1 465.3 465.8 466.0 466.1  
 4.9 4.7 4.2 4.0 3.9  
 35 22.5 27.5 4.0

467.4 466.4 465.7 465.7 465.9  
 2.6 3.6 4.3 4.3 4.1  
 35 22.5 27.5 4.0

465.3 465.2 465.2 465.6 465.9 465.9  
 4.7 5.0 5.0 4.4 4.1 4.1  
 35 22.5 17 27.5 4.0

470.02

Rose St - Cross Sections

72

4+41 = End Conc. Drive on Lt.

464.19	464.32
562	549
435	17.7
Floor	on Drive
Garage	

4+34 = Beg. Conc. Drive

464.81	464.77	464.99
500	504	482
17	227	265
Drive	Bk. Floor	Garage
	in Drive	

4+34 = End 8" Conc. Tile Wall 17' Rt

4+31 = Beg. Conc. Drive

4.8 High

4+24 = Beg. 8" Conc. Tile Wall 17' Rt

464.19	464.41
562	54
432	17.5
Conc. Floor	on Drive

4+00

464.0	463.1	464.2	464.7	464.6	464.6
58	5.9	58	5.1	5.2	5.2
373	22.5	16		27.5	40
Ground of					
Int. Lot House					

3+89 = 2' Garage under Const.

464.99  
48.2

464.31

3+85 11' Rt of Pole 17.5 8.59

5.50

3+78 = 2' 2.5' Conc. Walk on Rt

48.2

Proposed

3+73 = East edge House 26.5 Rt

464.68 464.79

5.13 5.02

3+59.5 = d. MH

12 26

on Walk on Walk

464.58

5.23

Rim

MH

3+50

465.19

464.1 464.3

464.8

464.8

464.9

462

5.7

5.5

5.0

5.0

4.9

36.5

35

22.5

12

26.5

Conc. Porch

at House

on Ground

467.81

5767 14.5' Rt 4" Orange  
 5765 16.8' Rt = Pole Anchor  
 5756 14.7' Rt 4" Orange Tree  
 TR 496 469.05 5.6 464.15  
 5750

5735 = End Frame House on Rt 32.4' Rt

5723 32' Lt = Beg Frame House

L 8.5' Conc. Porch on Rt.

5711 = L 4' Conc. Walk on Rt.

4795 = L 4" Peach 15' Rt

5700 = L 20' Garage on Lt.

4780 = Beg. Frame House 28' Rt.

4784 = Beg. Loose Rock Ret Wall Approx 1' High 12.3' Rt.

4781 12.6' R = 4" Peach Tree

4785 = End Conc. Tile Wall & Brick Patio 17.1' Rt.

4752 = Beg Brick Patio 17.2' Rt.

Beg 5' Conc. Tile Wall 17.2' Rt.

4752 = East edge Drive on Rt

4750

469.81

469.05  
 464.21 464.21 464.21 464.6 464.5 464.7  
 5.6 5.6 5.6 5.2 5.3 5.1  
 27.6 22.5 15 27.5 40  
 of House

464.62 464.62 466.79  
 5.20 5.19 3.02  
 12.7 22.2 2.59  
 on walk on Walk on Conc. Porch

464.27 464.1 464.7 464.3 464.7 464.8  
 5.54 5.7 5.14 5.5 5.1 5.0  
 24.8 22.5 12.6 13.6 30'  
 Floor Level Across of House

464.91

490

17.1  
 Brick  
 Patio

463.8 463.8 464.7 464.70 464.85 464.87  
 6.0 6.0 5.1 5.11 4.96 4.74  
 35 27.5 469.81 16.6 23 27.5  
 Conc. Drive Floor  
 Drive

Rose St.

Lt.

£

Rt.

74

0.03

Cutoctin or 63rd 465.66 P10  
 Chk N.W. B.P. E. / Guyon 450 465.69  
 T.P. 559 479.19 445 464.60

Diag. Sec 107°42' Rt  
 6709 on Pav

463.77	464.08	464.11
528	497	494
50	Pav.	50
Pav.		Pav.

Diag. Section 107°42' Rt Page 35  
 6702.9 = W edge Cold Bay Pav

463.71	464.13	464.16
534	492	489
50	Pav.	50
Pav.		Pav.

5+84.66 Rt to SW Cor Rose & 63rd

463.85	463.95	464.15	464.13	464.13
52	51	490	48	48
35	22.5	00	27.5	10
Lawn	Lawn	Hub.		

4184 = Bay wall

5+83 = End 1' High Loose Rock Wall

5+77 14' Rt = 4" Orange Tree  
 24.8 Lt = End porch.

465.65	464.24
340	481
248	19.6
on Porch	on Walk

5+70 19' Lt = End FRANK House

5+64 20.5' Lt. Bay Conc Walk  
 467.05

467.08

INDEXED

MAR 19 1951

SECTION MILLAR ST.

Sketch P-69  
2929 = Proposed St. Stewart St.

St	L	Rt
461.1 6.4 35	461.0 6.5 25	462.4 5.1
4632 4.5 25	462.75 4.4 35	

2+00

464.1 6.4 35	461.5 6.0 25	462.9 4.6	463.3 4.2 25	463.2 4.3 35
--------------------	--------------------	--------------	--------------------	--------------------

1+50

461.1 6.4 35	461.3 6.2 25	462.9 4.6	4632 4.5 25	462.7 4.8 35
--------------------	--------------------	--------------	-------------------	--------------------

1+00

461.3 6.2 35	461.4 6.1 25	462.6 4.9	4632 4.5 10	464.3 3.2 35	464.0 3.5
--------------------	--------------------	--------------	-------------------	--------------------	--------------

0+50

461.7 5.8 35	461.7 5.8 25	4632 4.5	464.4 3.1 25	464.9 2.6 35
--------------------	--------------------	-------------	--------------------	--------------------

0+22.5

462.0 5.5 35	462.2 5.3 25	463.4 4.1	463.9 3.6 25	463.9 3.6 35
--------------------	--------------------	--------------	--------------------	--------------------

0+00

462.7 4.8 35	462.6 4.9 25	463.36 4.3	463.9 3.6 25	464.- 3.5 35
--------------------	--------------------	---------------	--------------------	--------------------

7.28 467.49

460 21

B.M. Nails in Pole P-70

467.49

Miller St.

Lt

L

Rt.

76

2+00

458.6	459.2	459.5	459.7	461.0	460.6
8.9	8.5	8.0	7.8	6.5	6.9
35	25		15	25	35

1+50

459.3	460.1	460.7	460.6	460.8
8.2	7.4	6.8	6.9	6.7
	25		25	35

1+47. 14.7' H. Pole Hole (under Const.)

1+30 = Pole Anchor 14.8' H. (under Const.)

1+22 = L. Curve Drive

462.0	462.09
5.49	5.40
20.3	30
DRIVE	DRIVE

1+00

460.6	460.8	461.5	461.7	462.1
6.9	6.7	6.0	5.8	5.4
35	25		25	35

0+60

461.4	461.4	461.9	462.5	462.8
6.1	6.1	5.6	5.0	4.7
35	25		25	34
				97 House

0+25

461.2	461.7	462.3	462.9	463.1
6.3	5.8	5.2	4.6	4.4
35	28		25	31

= 0+00 Ahead

2+49.29 = L. Stavecut

467.49

461.1	461.6	462.5	462.6	462.6
6.4	5.9	5.0	4.9	4.9
35	25		25	35

467.49



Miller St.

Lt.

Rt.

Rt.

77

2+92.49 = N.W. Hobart

444.2	446.3	450.0	454.1
16.8	14.7	11.0	6.9
50	25		25

2+82

446.5	449.2	454.4	455.3	456.1
14.5	11.8	6.6	5.7	4.9
50	25	6		25

2+74 = Pole Hole under Const. 15' Lt.

2+72.49 = E Hobart

450.2	452.7	455.4	456.0	457.0
10.8	8.3	5.6	5.8	4.0
50	25	17		25

2+57.49 = E MH

451.33
3.69

2+54.49 = S.W. Hobart St

456.4	456.7	457.8	458.1	458.6
4.6	4.3	3.2	2.2	2.4
35	25	461.02	25	35

2+42 17' Rt = E Fire Hydr. on Rock

T.P. 5.34 461.02 11.81 455.68

2+20 = N edge Drive on Lt.

458.9	458.79
8.60	8.70
47.1	19.9
Floor	Drive

2+13 E 8' Drive on Rt

460.05	460.39
--------	--------

2+09 = Beg. Conc. Drive on Lt.

458.93	458.87
--------	--------

7.44	7.10
------	------

467.49

8.56	8.62
47.2	2.0
Floor Garage	Drive
	467.49

2.17	4.56
on Drive	Drive at Garage

Miller St.

INDEXED

MAR 19 1951

78

				<u>001</u>
2 Hails in Pole			460.21	
chk BNY P-75	566		460.20	
TP 4.74	465.86	010	460.92	

3+26

46102

435.4	436.6	439.1	443.4	445.4
256	24.9	21.9	17.6	15.6
50	32		25	50
		46102		



80

91°42'30  
10°22'45  
102°05'15

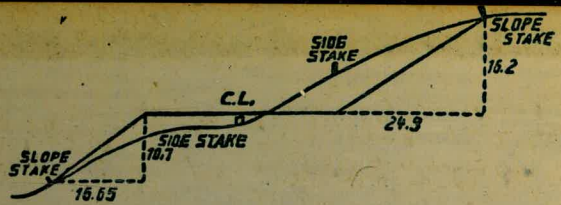
67

63.  $\frac{67.50}{64.50 \text{ end.}}$   
 $\frac{67.50}{64.50} = 3.38$

$\frac{1288}{668}$   
 $\frac{1956}{1288}$

$\frac{2618.0}{175}$   
 $\frac{21413}{51718}$   
 $\frac{24929}{26959}$   
 $\frac{19289}{2}$

$\frac{.0175}{70}$   
 $\frac{1225}{13125}$   
2509



**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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