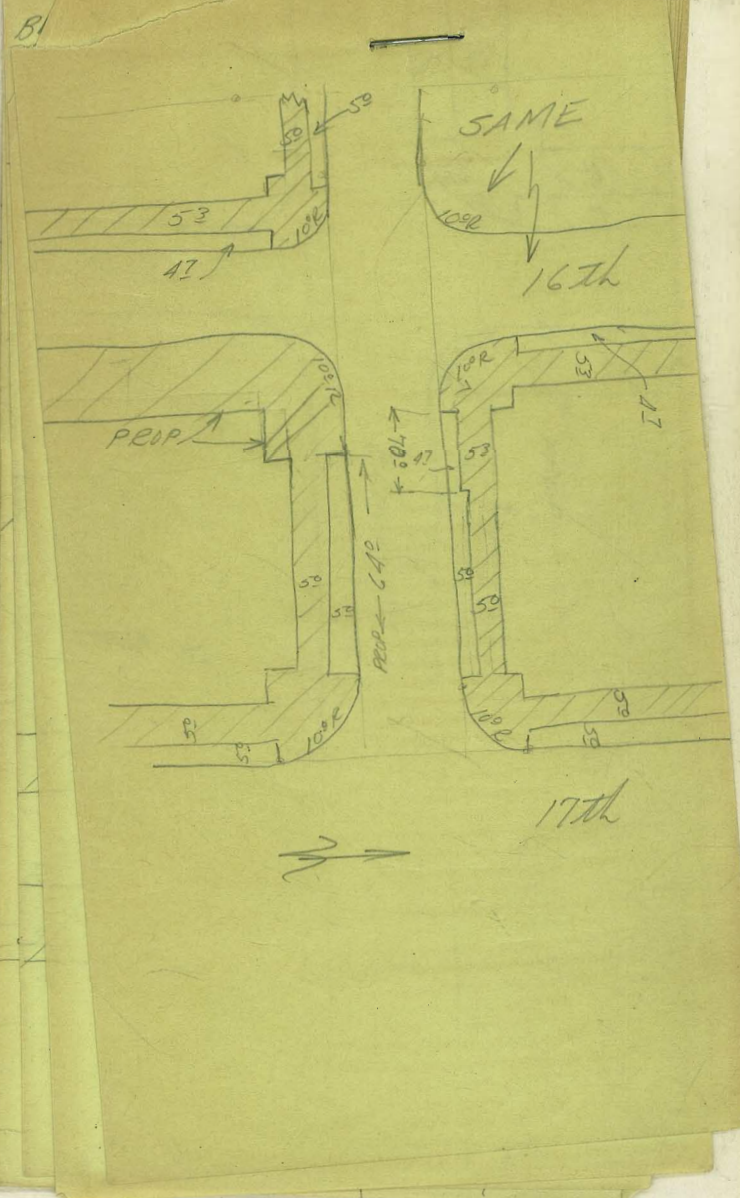


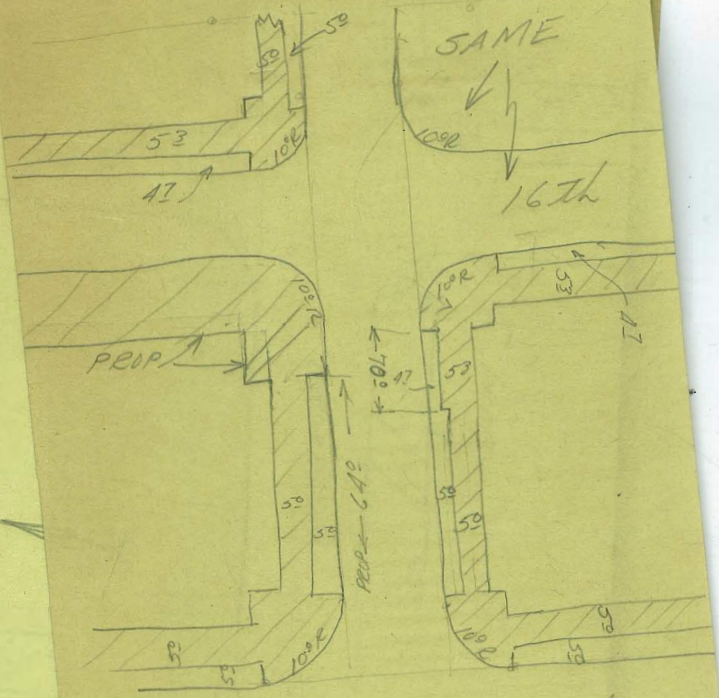
DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING  
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	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

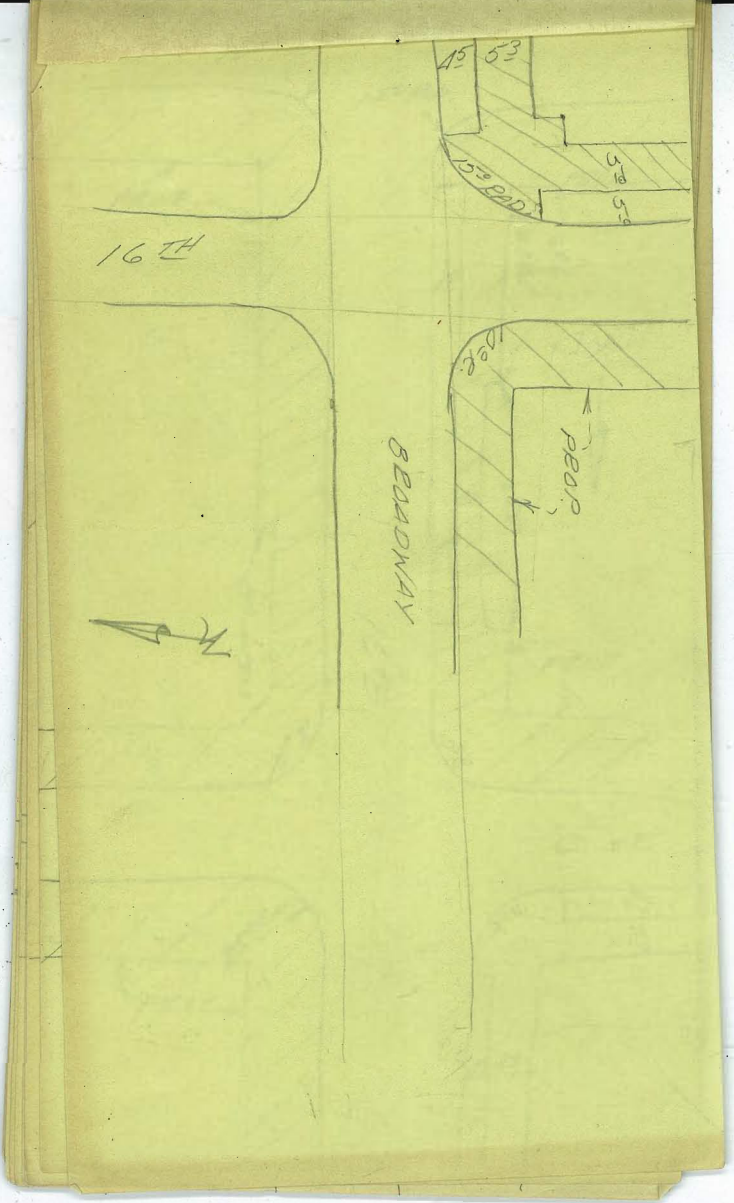
Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope 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.

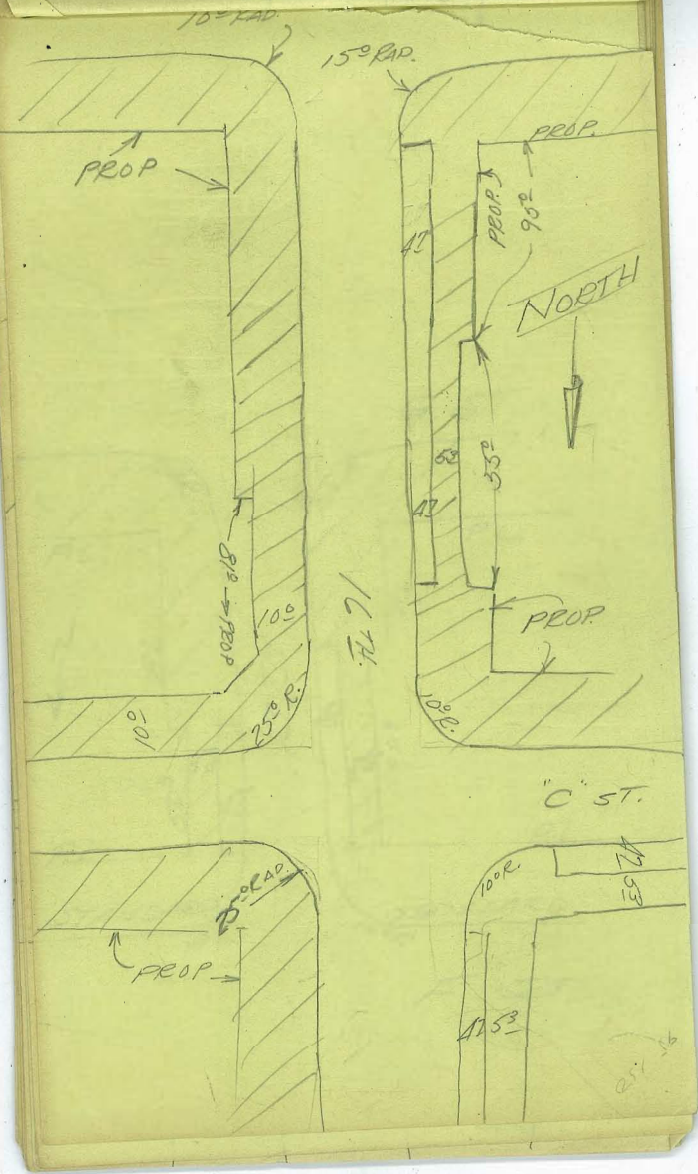


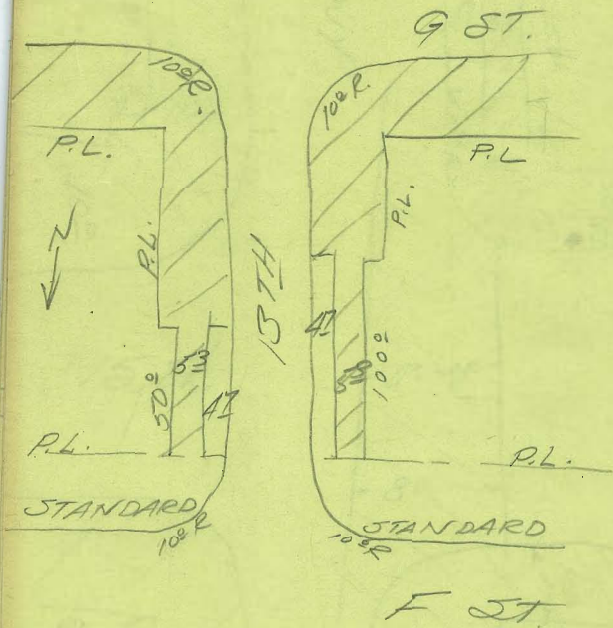
B

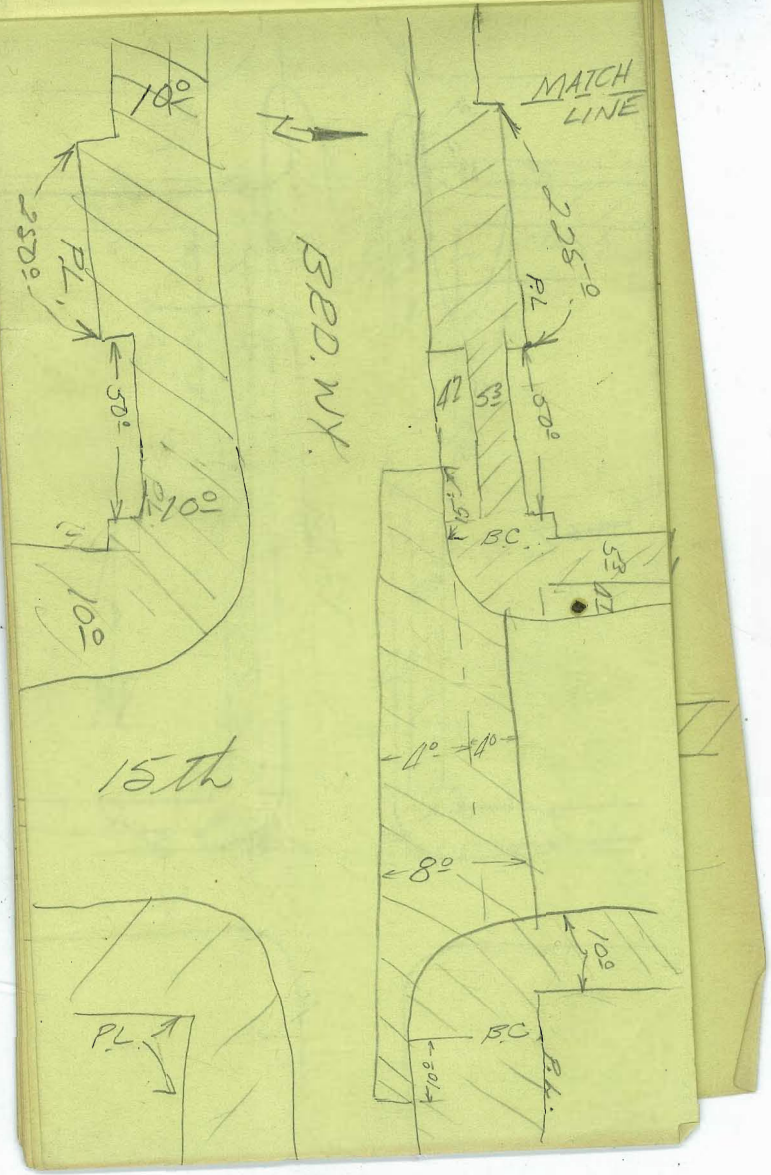


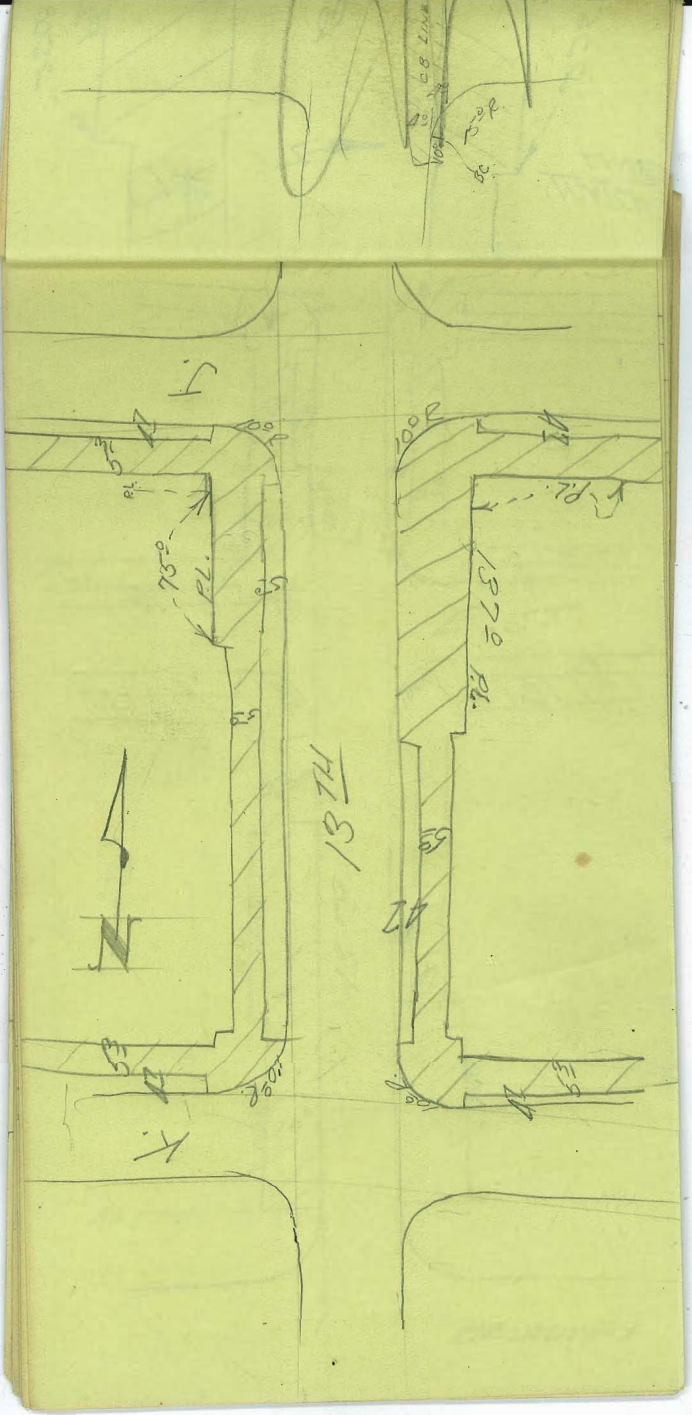
17th





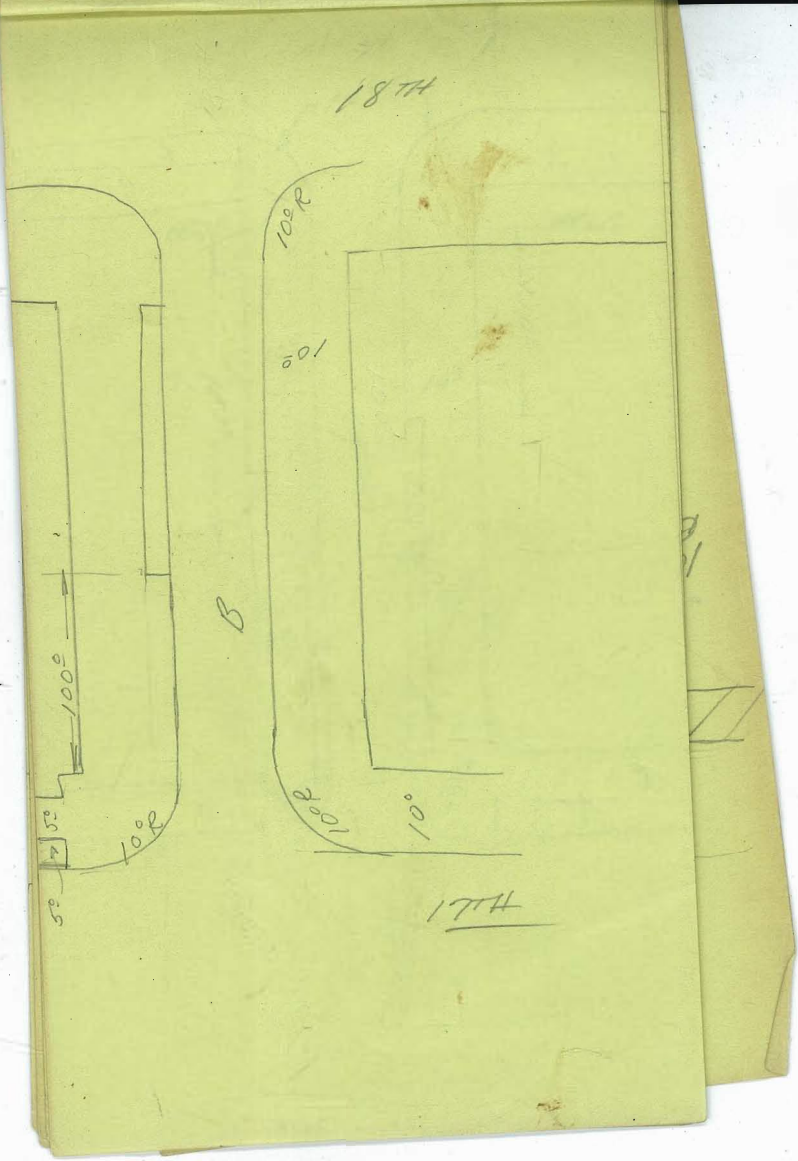




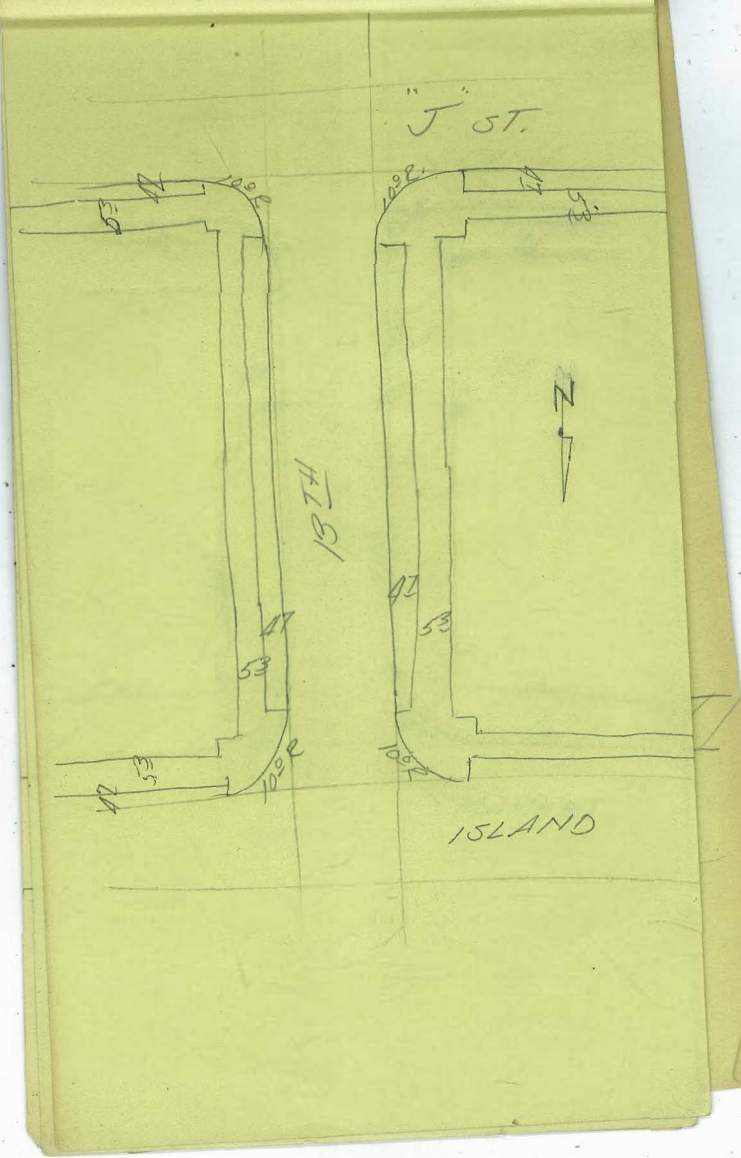


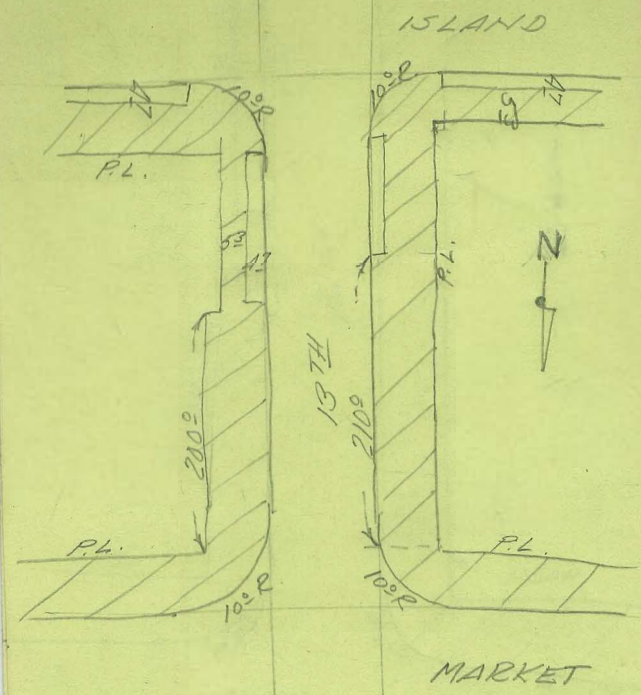












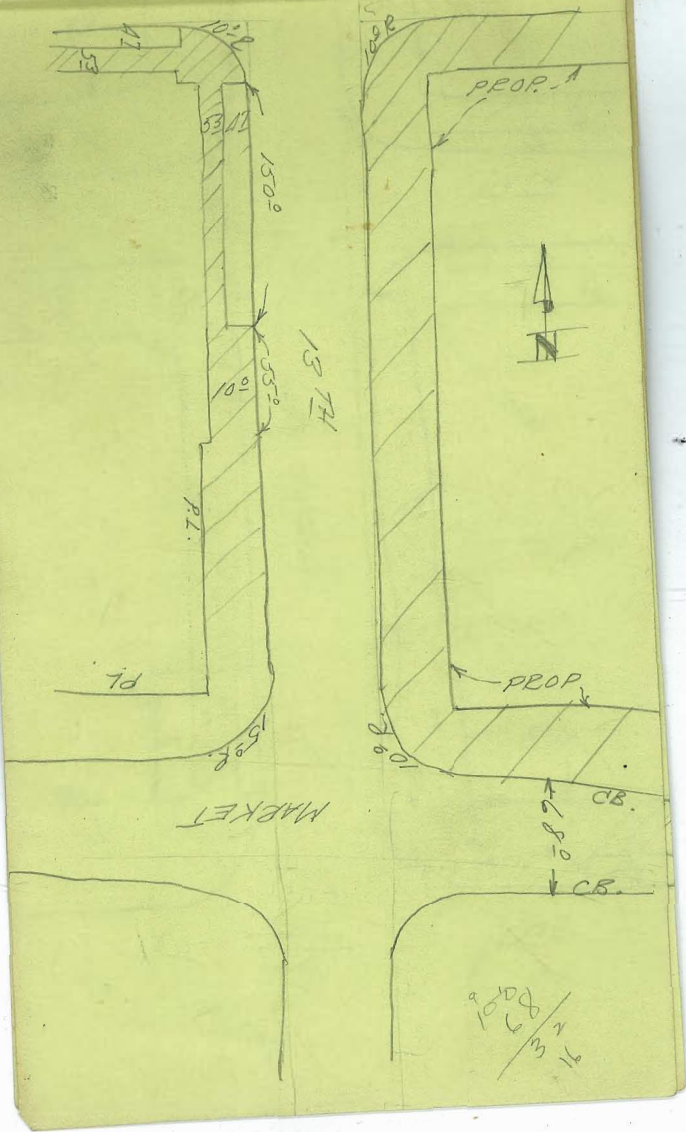








TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

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

FOR TANGENTS ADD

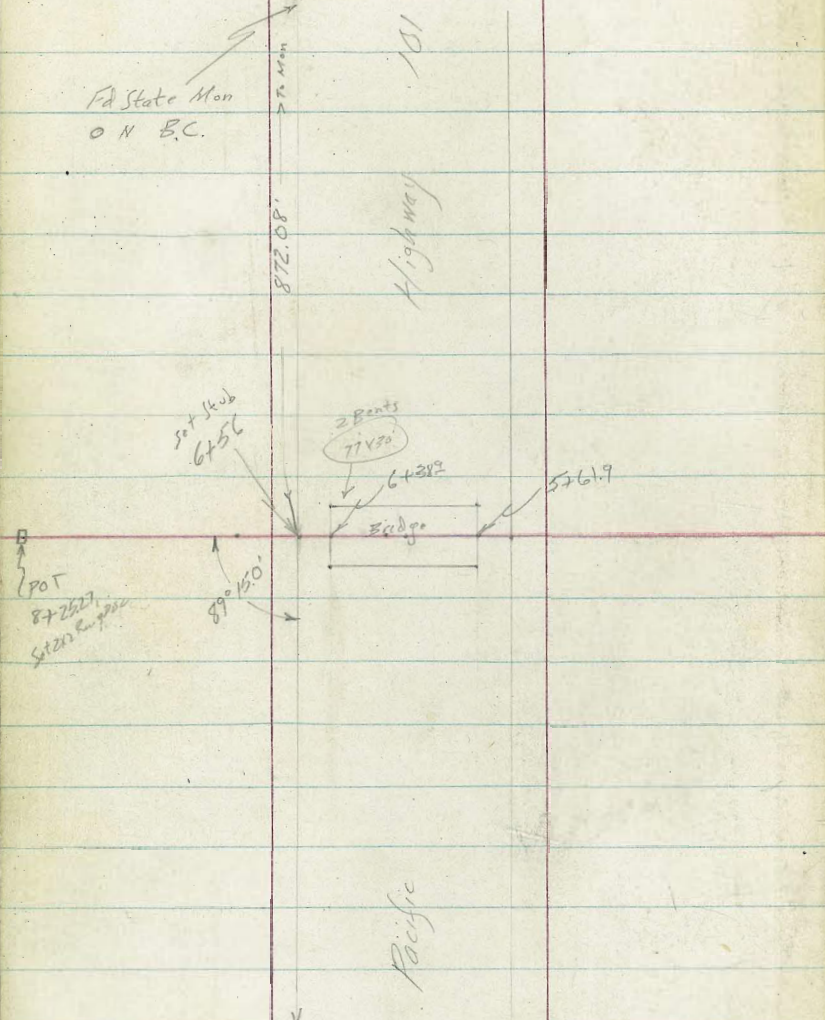
Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.03	.06	.09	.13	.16	.19	.22	.25	.28	.31	.34	.38	.42	.46
15°	.04	.10	.14	.19	.24	.29	.34	.39	.45	.51	.53	.58	.63	.68
20°	.06	.13	.19	.26	.32	.39	.45	.51	.58	.65	.72	.79	.84	.90
25°	.08	.16	.24	.33	.40	.49	.58	.67	.75	.83	.90	.99	1.06	1.14
30°	.10	.19	.29	.39	.49	.59	.69	.79	.89	.99	1.09	1.20	1.29	1.39
35°	.11	.22	.34	.47	.58	.69	.79	.81	.92	1.04	1.29	1.42	1.54	1.66
40°	.13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	.15	.30	.44	.60	.76	.91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	.17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	.19	.38	.57	.76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	.21	.42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	.23	.46	.69	.93	1.16	1.40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	.25	.51	.76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	.30	.61	.91	1.22	1.53	1.84	2.15	2.46	2.78	3.10	3.44	3.78	4.12	4.46
85°	.33	.66	1.00	1.33	1.68	2.02	2.36	2.70	3.05	3.40	3.77	4.14	4.55	4.89
90°	.36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32
95°	.39	.79	1.19	1.55	1.94	2.32	2.70	3.08	3.46	3.84	4.24	4.64	5.05	5.46
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

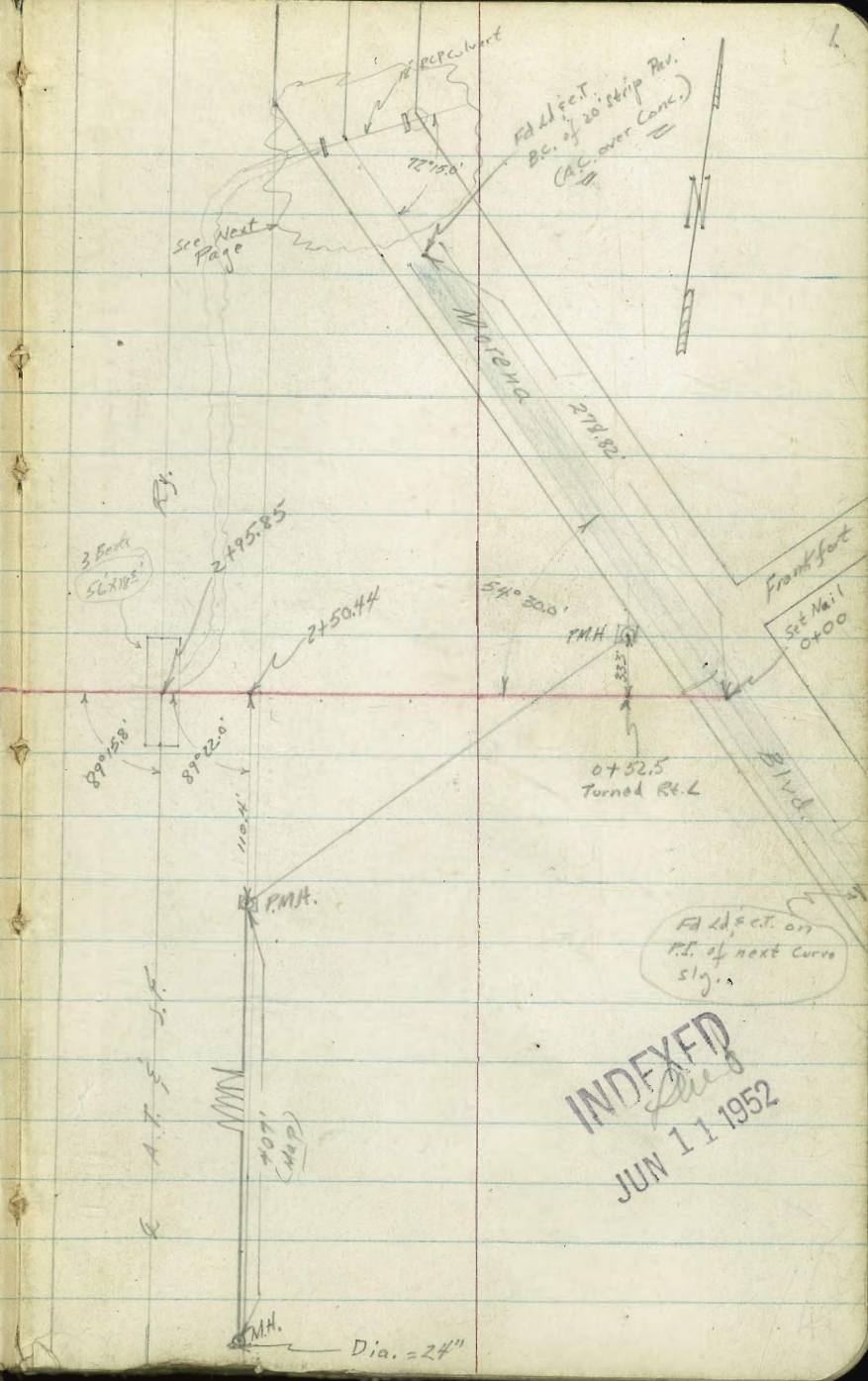
Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.032	.037	.042	.047	.053	.057	.061
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	.036	.046	.056	.065	.074	.083	.093	.106	.120	.127	.135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.711	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.266	.353	.440	.528	.617	.707	.797	.877	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

Frankfort  
 Storm Drain Survey - Morana Blv Pac. Hiway 1  
 HAWTHORNE to JUNIPER - EAST OF FERN 12  
 SURVEY EAST DRAINAGE FACILITIES:  
 Proposed Drain across Brant's - Nly Brooks - 13-17

Roberts Storm Drain Survey Morena Blvd.  
 at Frankfurt St across F.Ry. & Pacific Hwy.



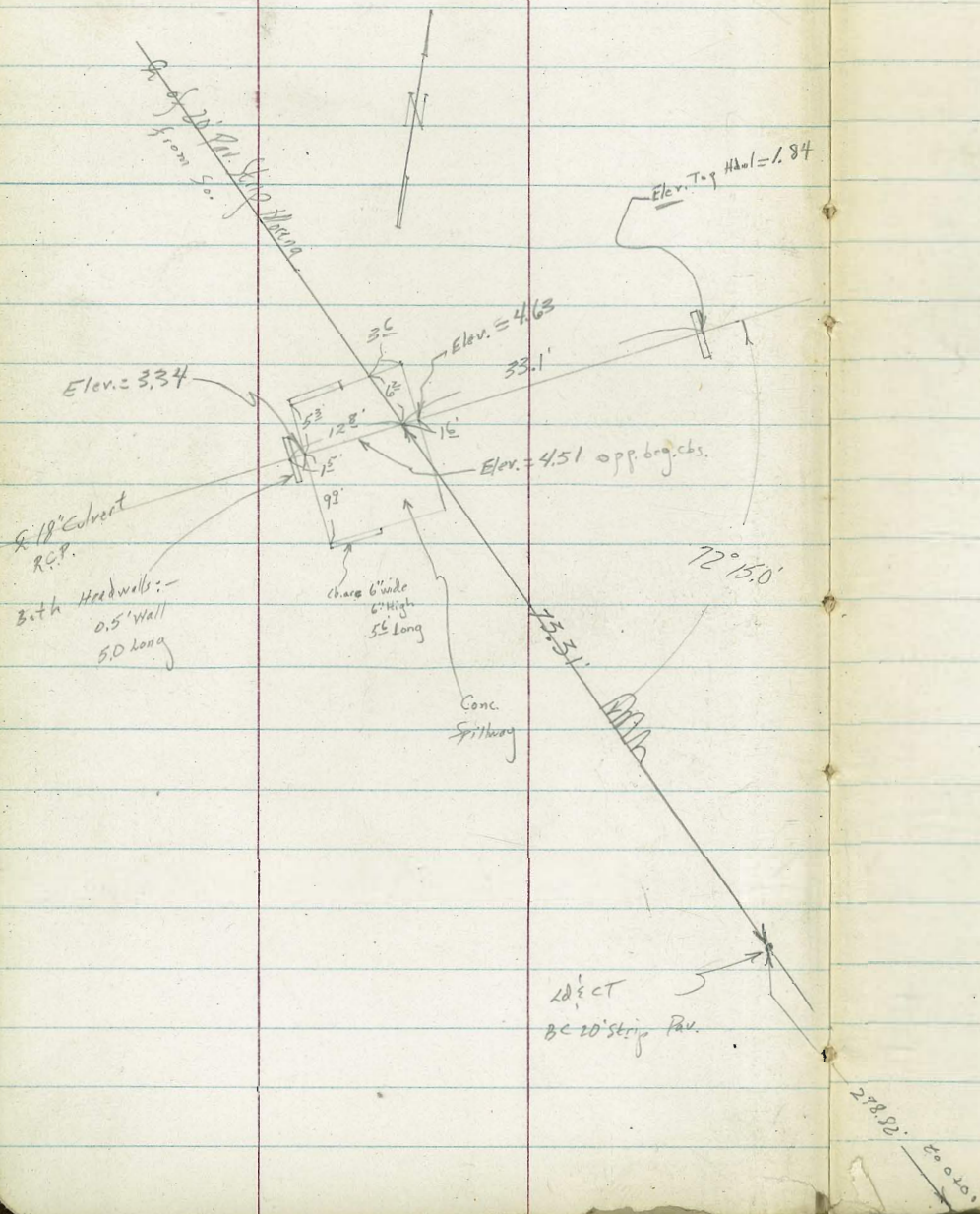
F.A. State Mon. 128' Set. & Sta. So End Bridge  
 across creek Labla Toodle by State



INDEXED  
 JUN 11 1952

Contd From Page 1

2.



Cont'd From Page 2

Lt

Rt

Rt 3

0+68 40<sup>±</sup> Rt to S.E. Co. Bldg (30' X 61')

0+52.5 33.3' Rt to center PNH (sealed)

Right angle Sections

0+12± Wly Edge Pav.

0+00 20' Par. Strip Morena Blvd.

0-12± Ely Edge Pav. (As over concrete)

T.P. 472 10.27<sup>±</sup> 6.39 5.55<sup>±</sup>

0-25 X-Section taken Parallel to Morena

BM 1.90 11.94<sup>±</sup>

10.04 BP. center Ely headwall  
Bridge Tule Lake Creek @ Morena

	4.2	4.9	5.2	5.24	5.03	
	50	17				5.24 ← Seal for end
						33.3 TOP P.V.
	5.26	5.54	5.24	5.09	4.95	
	4.51	4.73	4.03	5.18	5.32	
	100	50		50	100	
	6.04	5.81	5.37	5.28	5.25	5.26
	4.23	4.46	4.72	4.89	5.02	10.63
	100	50		50	100	352.13
						Inlet INVERT
						18" RCP culvert
	5.81	5.56	5.28	5.19	5.04	11.38
	4.46	4.71	4.89	5.12	5.23	352.13
	100	50		50	100	outlet INVERT
	4.7	5.6	6.0	6.3	6.5	7.1
	300	250	200	150	100	50
	7.0	7.3	7.4	7.7	7.8	8.1
	50	100	150	200	250	

Cont'd From Page 3

Lt

Q

R

T

2+68

3.6	4.3	5.0	4.7	6.5	5.6	5.2	5.9
100	50		7	18	25	50	100

2+50.44

110.4' E 517.4' Lt to P.M.H. E M.H. @ 21' 22'

3.14 E/lev  
3.09 E/lev  
5.01 E/lev  
INVERT  
OUTLET  
M.H.  
M.H.  
517.4  
INVERT  
M.H.  
110.4  
TOP  
P.M.H.  
(sealed)  
22'

2.6	3.0	4.0	3.0	3.0
100	50		50	100

2+00

2.7	2.6	2.8	2.7	1.0
50		50	100	200

1+50

2.3	2.5	2.6	2.5
50		50	100

T.P.

2.13

5.90  $\pi$

6.50

3.77  $\downarrow$

5.90  $\pi$   $\downarrow$

1+14 $\frac{5}{2}$

22 $\frac{3}{2}$  Lt to Center P.P. 6 # C 4300

1+00

6.5	6.5	6.2
50		20

0+93 $\frac{5}{2}$

22 $\frac{5}{2}$  Rt to SW Gr. Bldg.

10.27  $\pi$

10.27  $\pi$   $\downarrow$

Cont'd From Page 4

Lt

E1

E2

5

4400

3/9  
44  
50

3/3  
47

3/9  
50  
50

3788

3/3  
47

3778

1/2  
68

3720

5/0  
75  
50

1/2  
68  
5

5/9  
89  
15

0/1  
79

1/2  
67  
21

1/4  
67  
50

3704.9

Wly Face Ry Bridge

4/9  
31  
28

3/2  
47  
17

5/1  
95

1/5  
95  
10

4/3  
34  
22

5/0  
30  
29

T.P.

757

7.967<sup>1</sup> 5.51 0.39<sup>1</sup>

7.967<sup>1</sup>

286.6

Ely Face of Ry Bridge

2/4  
17  
28

4/0  
19  
20

1/5  
74  
5

5/1  
74  
Grd.

1/0  
+1.20  
Bk. Bridge

1/5  
74  
10

4/4  
15  
22

1/5  
13  
28

5.907

5.907

Contd From Page 5

24

E

RT

6

5415

7.4<sup>05</sup>

5400

4  
2  
5.6  
50

2  
2  
5.6

2  
2  
5.6  
50

4486

2  
2  
5.7

4477

0.6  
7.4

4450

1.2  
6.8

4423

0.4  
7.6

4417

1.9  
6.1

7.96π

7.96π

Cont'd From Page 6

26

6.0 -0.2

27

9+00

8+00

7+00

6+38.9

wly Face Hwy Bridge (4' Top to Bottom)

6.43  
15  
conc

6.43  
conc

6.43  
15  
conc

T.P.

0.44

5.32

3.08

4.88

BP Eastside  
Center Bridge

5.32

5+61.9

Ely Face Hwy Bridge

4.80  
15  
conc

8.84  
Conc  
INVERT

4.84  
Btt.  
Bdy

4.82  
15  
conc

5+38

8.2

7.96

7.96



Cont'd. From Page 7

16+00

15+00

14+00

13+00.

12+00

11+00

10+00

5.327

Lt

\$

Re.

8

6.4

6.7

6.1

5.9

5.9

6.0

5.8

5.327

Reduced By C.P.R. 6-17-52

2/15

SURVEY FOR DRAIN EXTENSION SLY  
OF ROBINSON AT ALBERT

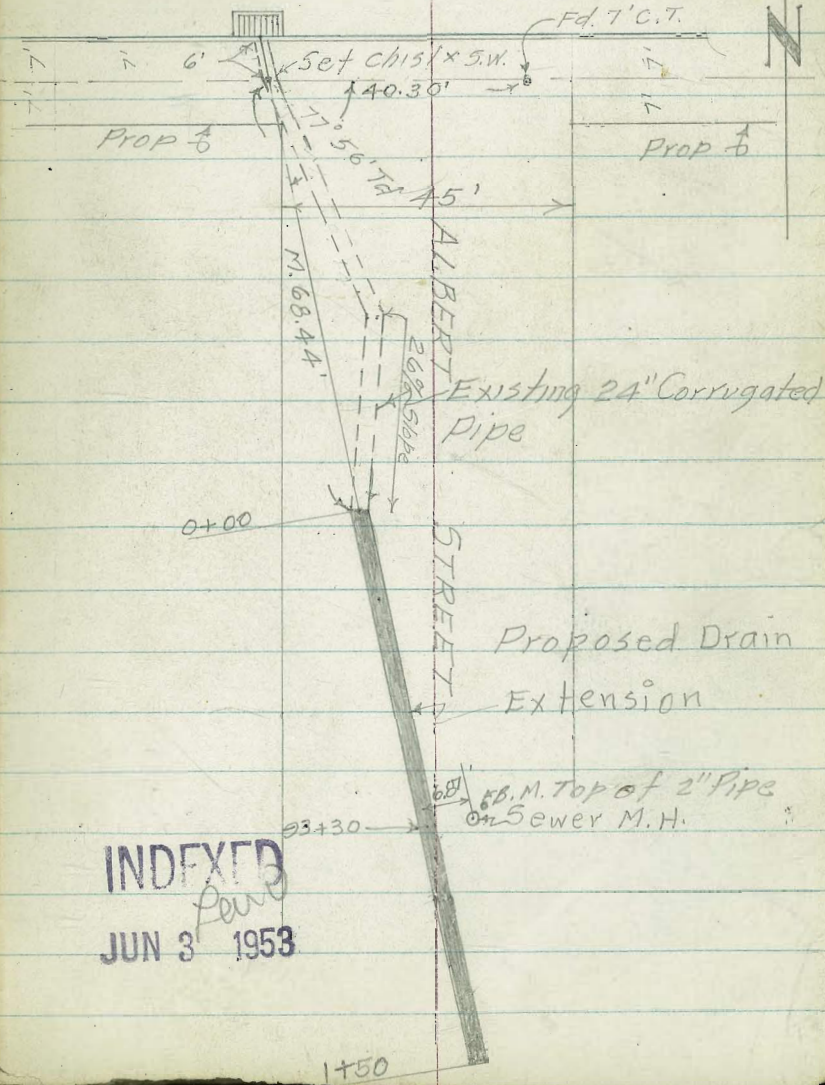
S.E. 7' Robinson @  
Richmond  
Fd. 120'

Sta	Vert	Slope	Horiz
22°00'	73.81	68.44	

W.O. 21060 2-18-53

Stampers  
Huffman  
& Sporey  
& Sherry  
A.V.E.

ROBINSON



INDEXED  
JUN 3 1953

1+50

CROSS SECTIONS FOR PROPOSED  
DRAIN EXTENSION ROBINSON AT ALBERT  
Sta

T.P. +83 7' Lt & 2' Eucalyptus Tree 258.96  
+75

+50

INDEXED  
Law  
FEB 19 1953

+25

0+00

T.B.M.

T.P.

T.P.

T.P.

T.P.

B.M.

258.96

267.01

274.39

281.87

289.44

294.05

2-18-53

East Lt. & Rt. West

NOTE: See Sketch Pg. 9

Sections taken with a direct  
Reading Rod

259.9 258.3 257.2 257.1 258.1 261.6  
12 4 2 0 8 20

265.6 264.5 261.3 259.5 258.6 258.8 260.0 261.1 261.5  
17 13 6 0 1 3 5 10 20

267.4 265.5 264.4 262.4 261.7 262.4 263.0  
13 10 6 3 0 10 20

F.L. 24" Corr.

267.4 264.9 261.57 263.6 263.6  
12 8 0 10 20

Top of 2" Iron Pipe opposite Sewer M.H. @  
Sta 0+93.30  
Top of Bottom Spike R.P. # P 3725 (See Sketch)  
With Plate on W. Side Pole.

S.W. B.P. Robinson & Richmond

2.6  
+ 4.6

CROSS SECTIONS FOR PROPOSED DRAIN  
EXTENSION ROBINSON AT ALBERT CONTD

Sta.

B.M. 294.05 =

T.P. 288.82

T.P. 280.14

T.P. 277.70

T.P. 263.60

+50

+38 Lt. 7'  $\phi$  12" Tree

+25

+00

0+93.30  $\phi$  SEWER MANHOLE

B.M.

255.50

2-18-53

(11)

Lt. EAST  $\phi$  Rt. WEST

294.05 S.W. B.P. Robinson & Richmond

Top 24" Corr. Pipe @ Outlet = Ground Level

255.9 254.7 253.3 259.9  
20 12 0 17

254.2 253.4 253.5 254.2 254.6 258.6  
7 6 3 2 0 14

257.8 256.7  
20 15

257.0 254.7 256.4 258.7 260.7  
15 6 0 11 18

255.50  
6.9

W. Edge M.H. Rim (see sketch)



Survey to extend Culvert east  
across Brant street Nly  
of Brookes Ave

Ret 1810-1 V10# 21126

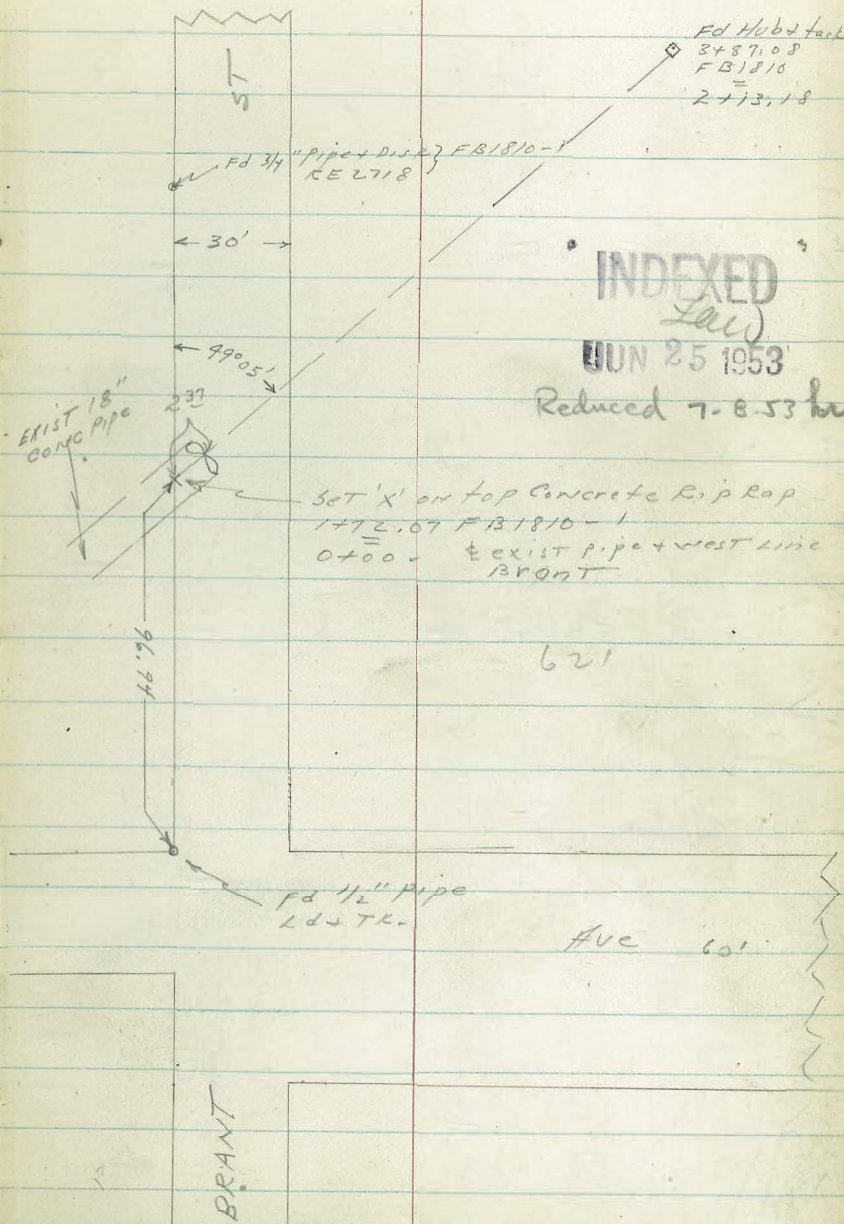
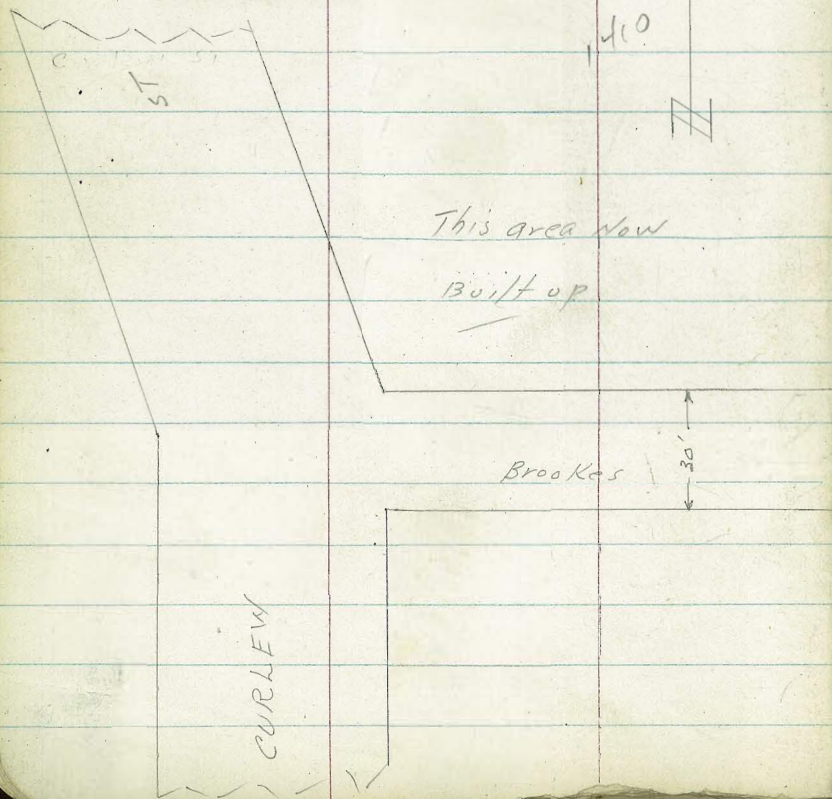
3393-B- 6-24-53

C. Allen

D. Sisson

C. Powell

M. Lowhead.



LT = Nly

Proposed Drain

14

Levels for extension of 18" Drain

across Brant St.

See sketch page 12.

	160.4	152.9	152.7	157.94	152.64	161.2
0+16'-5" Rt. of Sewer Manhole	4 <sup>8</sup> 10	12 <sup>3</sup> 3	12 <sup>5</sup>	7 <sup>22</sup> 5 <sup>2</sup>	12 <sup>52</sup> 5 <sup>2</sup>	4 <sup>0</sup> 15 ground
				SMH.		

across Ridge Below

See taken 90° to Forward Tangent  
also Bottom of excavation for entrance to pipe

0+02' = Fly end 18" CIRC pipe Drain

	158.1	162.1	152.1	151.94	152.0	155.6	164.2
	7 <sup>2</sup> 25	3 <sup>1</sup> 10	13 <sup>1</sup> 3	13 <sup>22</sup> 15.18" pipe ground same	13 <sup>2</sup> 3	9 <sup>6</sup> 5	1 <sup>0</sup> 25

Section along Ridge to Nly.

BRANT

Section taken on Diagonal ofing Wline

0+00' 'x' tip Rip Rap Headwall over pipe

	162.0	161.1	155.8	155.1	157.0	163.1
	3 <sup>2</sup> 25	4 <sup>1</sup> 15	9 <sup>4</sup> 3	10 <sup>1</sup>	8 <sup>2</sup> 5	2 <sup>1</sup> 25

TP<sub>1</sub> 9.88    165.16    7.44    155.28

165.16 X

BM 9.15    162.72    153.57

BP in east curb of Curlear opposite  
of Osfego Drive.

Drain extension Brant Nly  
Brookes Ave

LT = Nly

Drain

et Sly 15

0+75

162.4	158.9	157.4	159.6	161.8	165.6
28	6 <sup>3</sup>	7 <sup>8</sup>	5 <sup>6</sup>	3 <sup>4</sup>	10 <sup>4</sup>
31	21	8 <sup>0</sup>		16	25

& Natural Drainage

0+58

163.1	159.2	157.2	158.7	158.6	164.5
2 <sup>1</sup>	6 <sup>0</sup>	8 <sup>0</sup>	6 <sup>5</sup>	6 <sup>6</sup>	0 <sup>7</sup>
35	25	12		7	25

& Natural Drainage Channel

0+48 - Fly end excavation for entrance to pipe

159.0	157.1	154.5	157.2	158.2	158.7	164.5
6 <sup>2</sup>	8 <sup>1</sup>	10 <sup>7</sup>	8 <sup>0</sup>	7 <sup>0</sup>	6 <sup>5</sup>	0 <sup>7</sup>
25	10	9 <sup>0</sup>	5 <sup>0</sup>	8		25

Top Nly Bank      & Bottom excav.      Sly Top Bank

0+30 - Top Sly Bank excavation

153.1	156.8
12 <sup>1</sup>	8 <sup>4</sup>
4	

0+28<sup>2</sup> & proposed Drain intersects Sly Bank excavation

153.3
11 <sup>2</sup>

poored over pipe  
Rough protective slab of concrete

line - Sewer runs parallel to Brant

0+20<sup>3</sup> & proposed Drain intersects Sewer

153.4
11 <sup>8</sup>

orv Rough Conc

165.16 π



Proposed Drain Brant Nly of  
Brooker Ave

LT = N14

£

RT = S14

16

1495-

169.8	163.0	161.3	162.7	170.3
26	94	112	92	21
25		6 Natural Drainage	9	25

1475- £ proposed Drain intersects £ Natural Drainage

169.2	165.1	161.6	161.3	161.8	163.8	171.1
32	73	103	114	106	86	13
25	12	8	£ Natural	4	10	25

1450

168.5	163.7	160.1	160.3	160.2	160.6	167.3
32	87	123	124	123	118	51
25	10	5		5	10	25
				£ Natural Drainage		

1425

166.7	164.0	159.6	159.5	159.9	165.5
57	84	128	129	125	69
25	10		80	15	25
			£ Natural Drainage		

7P2 12.29 172.35 510 160.06

172.35 X

1400- £ = £ bottom Natural Drainage

163.8	158.8	158.7	159.0	166.2
14	64	65	62	+10
25	9	Natural Drain	5	25

165.16 X

Levels for Proposed Drain  
 across Brant St, N14  
 Brooker Ave

LT = N14

2

ret = 514 17

TP<sub>1</sub> - Start B.M. 9.55  $\langle 153.57 \rangle$   
 153.58

TP<sub>3</sub> 3.81 163.13 13.03 159.32

Natural Drainage

2+43 - Proposed & extended intersects &

164.0

84

Natural Drainage

2+43 - Proposed & extended intersects &

162.9 168.3 170.8

95 4 16  
 18 20 25

171.6

08

20

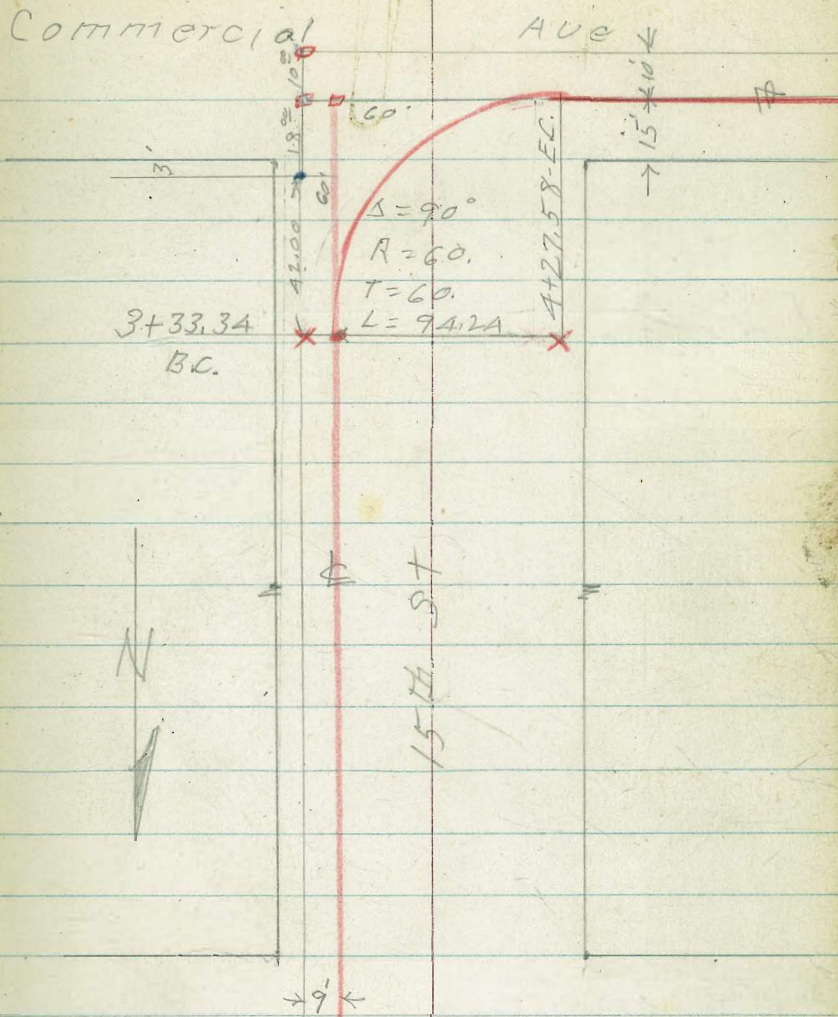
2+13<sup>18</sup> Hub shown as 3+87<sup>08</sup> FB1810.1

167.29 166.6 162.9 162.8

506 58 95 96

on Hub 42 52 120  
 ground tip & Natural  
 some bank

172.35



3+33.34  
B.C.

4+27.58 E.C.

P. J. E. R.  
 AUG 26 1953

Imperial Ave

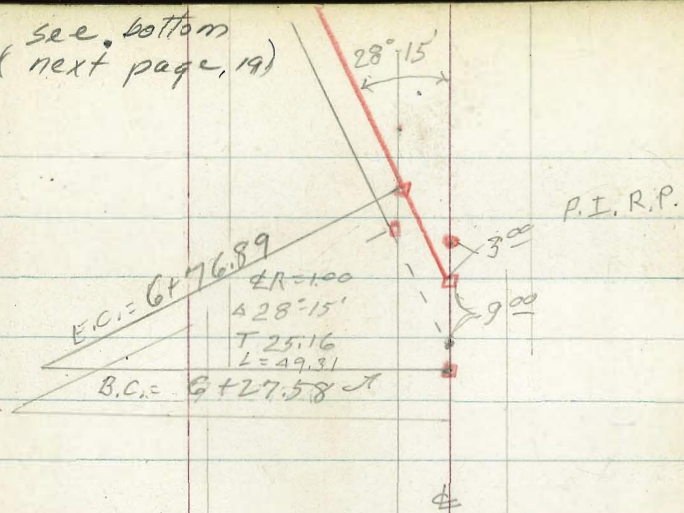
0+38.82 = Point

Imperial Ave

Nail set at 0+07 is on wrong E.W. line  
 My 7' line = Sta 0+06<sup>16</sup>



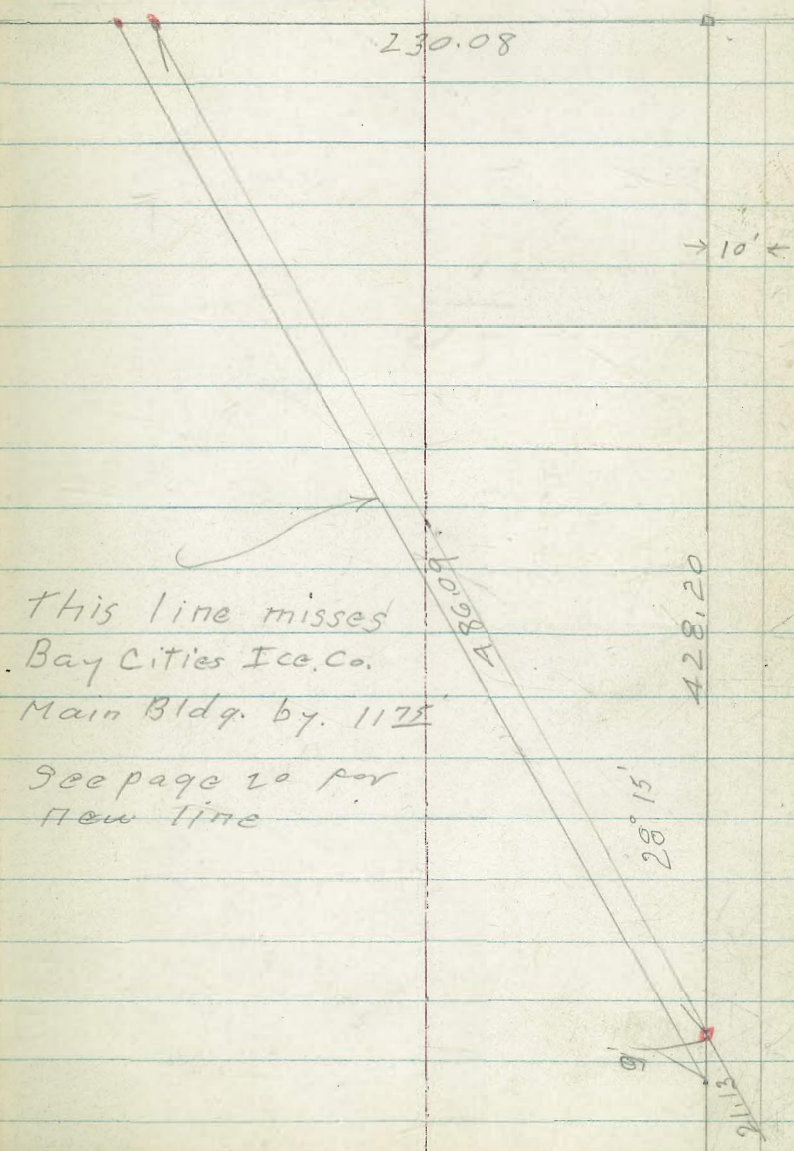
see bottom  
(next page, 19)



10' offset line

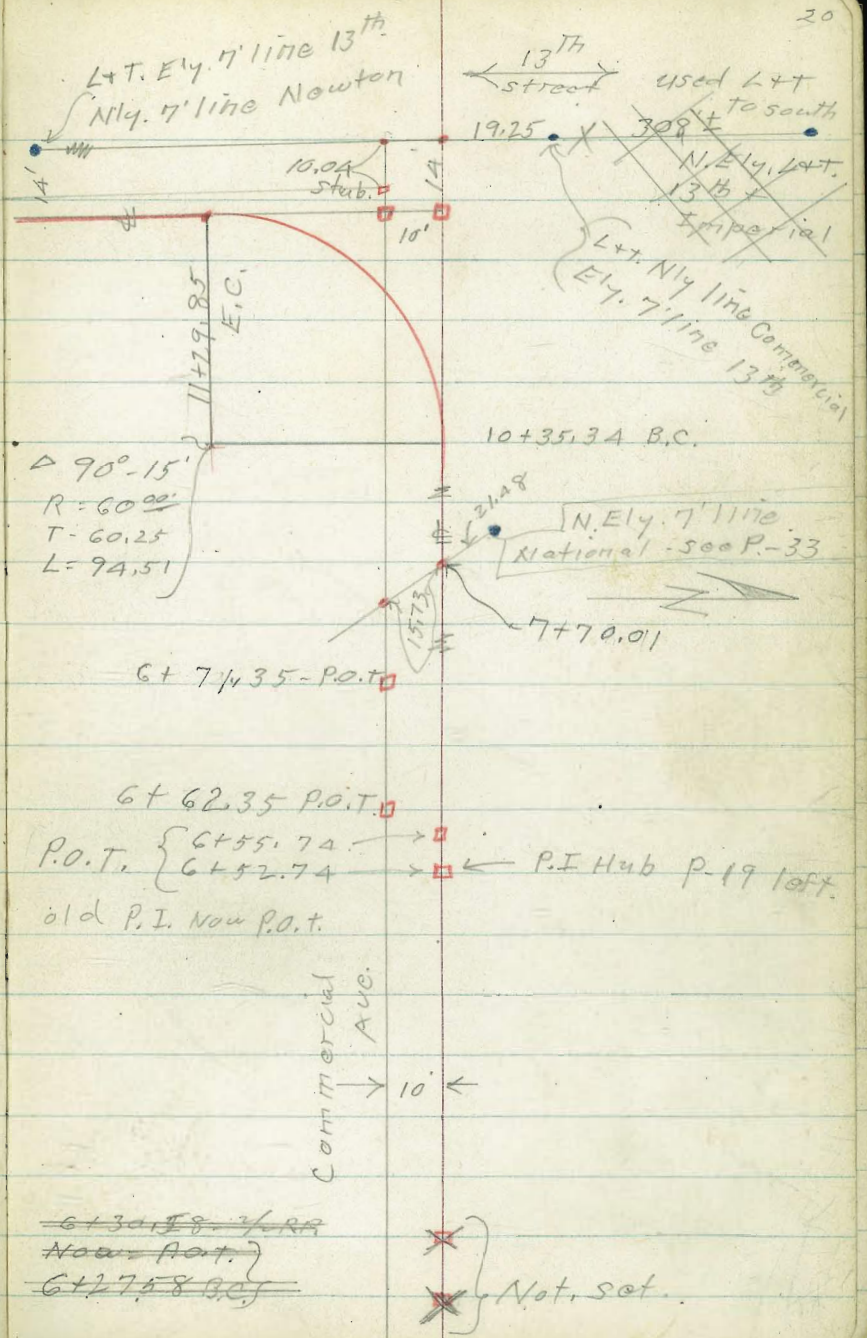
10'

E.C.  
6+27.58



This line misses  
 Bay Cities Ice Co.  
 Main Bldg. by 1175  
 See page 20 for  
 new line

THIS line continued  
from 6+27.58 Page 19-left.

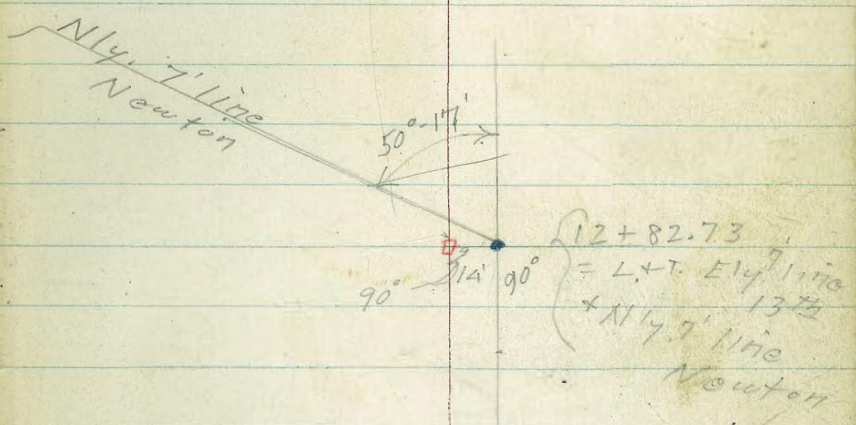
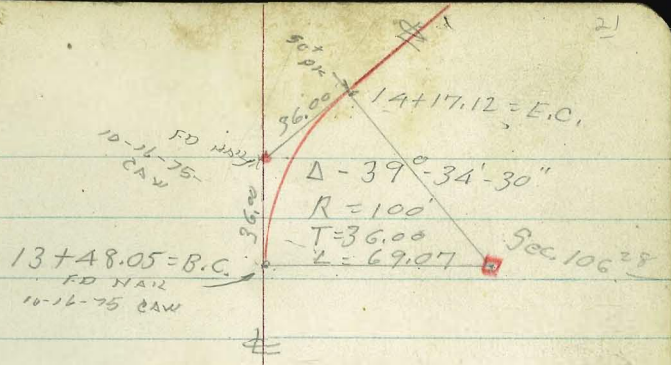


$\Delta 90^\circ - 15'$   
 $R = 60.00$   
 $T = 60.25$   
 $L = 94.51$

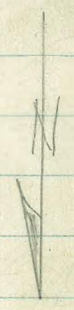
P.O.T. { 6+55.74  
           6+52.74

~~6+30.58 1/2 RR~~  
~~Now P.O.T.~~  
~~6+27.58 B.C.~~

X }  
 X } Not set.



11+29.85  
E.C.



20+10.21  
Nail in bridge  
deck, Sly. side

Nail in Nly.  
side bridge deck

1A+62.41 P.O.T.  
Nail in Sly side bridge  
deck

1A+89 - See Page 51  
1A+17.12 - E.C.

Culvert seems  
to Δ 10.30' ± to Lt.

Existing  
box culvert

22+87.83  
= cross on head wall.

22+06<sup>5</sup> - See page 55

21+16 see P 54

See page 53

20+39

20+10.21

± 10' x 15' 4"  
double box  
culvert

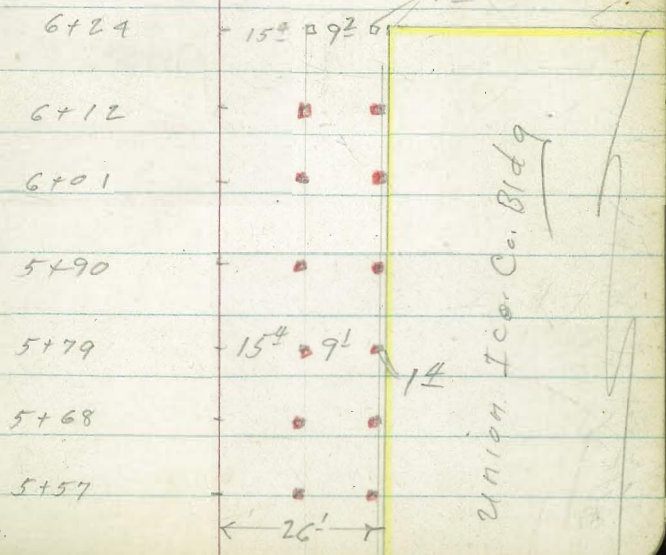
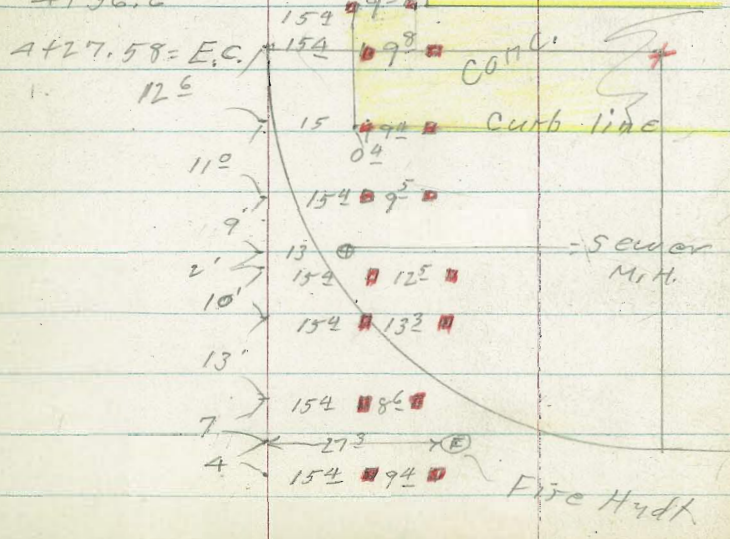
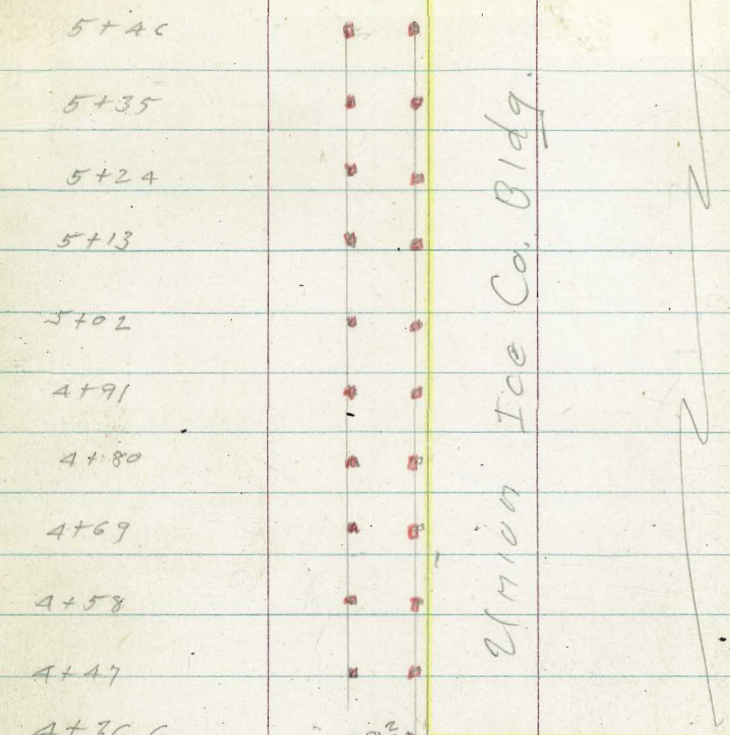
22+92.83

90° 40'  
190° 10'

Δ - 74° 52'

N

Y





Switzer Creek Drain  
Imperial to Harbor Dr

Note: Elev. below  
city datum shown (-R.XX)

Elev. Reduced  
Simonds 8/28/53

HI=12.80

7' cross - 9/4th of 0+06.16

T.P. 4.42 12.80 5.10 8.38

Imperial

8.58 8.48 8.44  
4.90 5.00 5.04  
16 20

22' Ltr = E.C. 20' Rad. cl. Ret.  
0+13.16 = Nly. ob. line Imperial

8.53 7.85 7.68 8.24 8.38  
4.95 5.63 5.80 5.24 5.10  
22 22 16  
cl. E.C. C

8' Ltr.  
0+07.5 ± ctr. cl. inlet

8.33 7.49 2.18  
5.15 5.99 11.30  
8 8 8  
cl. Grate I.E.

0-00.84 = Nly line Imperial

8.66 4.47 7.62 8.11 8.41 8.60  
4.82 5.01 5.86 5.37 5.07 4.88  
16 3 3 2 15  
cl C

0-06.84 = 2' Ltr = B.C. 20' Rad. cl. Ret.

8.68 8.53 7.98 8.10 8.38 4.74  
4.18 4.95 5.50 5.32 5.10 4.74  
16 2 2 HI=13.48 2 15  
cl C

5.72 13.48 3.64 7.76

8.40 11.40 - 3.00

N.E.B.P. Imperial + 13<sup>th</sup>

Commercial gutter  
1+77 2' Lt. = start roll out of

7.72	6.95	6.90	7.40
5.08	5.85	5.90	5.40
16	2		15
	G		

1+00

7.89	7.11	7.22	7.76
4.91	5.69	5.58	5.94
16	2		15
	G		

gutter  
0+83 2' Lt. = start bottom of

8.03	7.16	7.29	7.89
4.77	5.64	5.51	4.91
16	2		15
	G		

width commercial gutter (conc.)  
2' Lt. = start roll into full  
0+79<sup>16</sup> = sly line Imperial

8.03	7.92	7.16	7.33	7.70	7.90
4.77	4.88	5.64	5.47	5.10	4.90
16	22	27		4	15
	cl	G			

aprox. ctr. cl. Ret.  
0+70<sup>5</sup> - 7' Lt. = ctr. cl. Inlet.

7.99	0.60	7.14
4.81	12.20	5.66
75	75	75
cl	I.E.	Grato

20' Lt. = B.C. 20' Rad. cl. Ret.  
0+65<sup>16</sup> = sly. cl. line Imperial

8.22	7.72	7.39	7.75	7.90	7.99
4.58	5.08	5.41	5.05	4.90	4.81
22	22	16		2	15
cl	G				

12.80

Get B.M. on Co Rad. cross, 3.89 <sup>7.44</sup>  
~~7.46~~

3+33<sup>24</sup> = B.C. 19t.

7.21	7.17	6.21	6.29	6.96	7.07	7.28
4.12	4.16	5.12	5.04	4.37	4.26	4.05
16	12	2	Nail	15	24	49
A.C.	conc					

3+30 - 2' Lt. =  $\Phi$  40' wide drive conc.

6.67	6.22
4.66	5.11
12	2
drive	C

3+00

7.33	7.31	7.07	6.37	6.40	7.07
4.0	4.02	4.26	4.96	4.93	4.26
16	125	2	2		15
	walk	sl	C		

2+91<sup>E</sup> 2' Lt. = start 12' wide walk

<sup>33</sup>  
11.35

T.P.	4.12	<sup>33</sup> <u>11.35</u>	5.59	7.23	7.21	7.21 OK
			5.59			

2+50

7.4.0	7.50	7.30	6.57	6.67	7.25
5.4	5.30	5.50	6.23	6.13	5.55
16	115	2	2		15
	walk	cl	G		

2+30<sup>E</sup> 3<sup>5</sup> Lt. = pole# 51A636H

115 Lt. = fly. edge walk  
 65 Lt. = start conc. walk  
 1+78<sup>E</sup> 2' Lt. = start std. ob.  
 (walk in poor condition)

7.81	7.68	7.53	6.49
4.99	5.12	5.27	5.91
115	65	2	2
walk		cl	G

12.80 /

±

7.03  
4.56  
69  
5. w. conc.

6<sup>5</sup> Lt. = end 5' wide walk  
2' Lt. = end cl.  
= end A.C. Pavc.  
B.C. + 15 = Ally. line Commercial  
48' Rt. = end cl.  
69' Rt. = end conc. platform  
back of cl.

7.59 7.03 6.98 6.79 6.13 6.22 6.39 6.01 6.97  
4.0 4.56 4.61 4.80 5.20 5.37 5.20 5.58 4.62  
1.0 1.15 6.5 2 2 2.4 4.8 4.8  
walk cl G cl

B.C. + 36<sup>L</sup> on old pave.

7.39 7.04 6.82 6.15 6.28 6.67 6.31  
4.2 4.55 4.77 5.44 5.31 4.92 5.28  
1.0 1.15 2 2 2.4 5.0  
walk G G

B.C. + 36 = 24' Rt. = end built up pave.

7.39 7.04 6.82 6.15 6.28 6.67 6.38  
4.2 4.55 4.77 5.44 5.31 4.92 4.58  
1.0 1.15 2 2 2.4 5.0  
walk G G

T.P. 4.61 11.59 4.135 6.98  
4.61 7.00

11.59  
4.61

B.C. + 18 2' Lt. = start std. cl.

6.84 6.24  
4.47 5.09  
2 2  
cl G

B.C. + 14<sup>L</sup> = end conc. drive  
6<sup>5</sup> Lt. = start 5' wide walk

7.13 7.03 6.25  
4.20 4.30 5.08  
1.15 6.5 2  
walk G

because of trucks - rollers -  
piles of material - etc. in street.  
Following notes are shown off  
N+S. tang. line.

11.32  
12.80

A+27<sup>58</sup> = F.C.

Continue regular stationing

6.27	6.29	5.19	5.49	6.16	6.15	5.79
5.32	5.30	6.4	6.1	5.43	5.44	5.8
197	142	7		38	88	15
	on rails			on rails		8.1
	2 <sup>nd</sup> track			12 <sup>th</sup> track		

7.10  
 4.49  
 15  
 60 c.

B.C. + 79<sup>7</sup> = sly. rail 2<sup>nd</sup> track

7.25	6.98	6.73	6.27
4.34	4.61	4.86	5.32
16		24	60
			E.C. line

B.C. + 74<sup>7</sup> = Nly. rail 2<sup>nd</sup> track

7.23	7.04	6.69	6.29
4.36	4.55	4.90	5.30
16		24	60
			E.C. line

B.C. + 67

5.79	5.59	5.49	5.09
5.8	6.0	6.1	6.5
16		24	60
			E.C. line

B.C. + 56<sup>2</sup> = sly. rail 1<sup>st</sup> track

7.09	6.77	6.59	6.16
4.50	4.82	5.00	5.43
16		24	60
			E.C. line

Same  
Rail elev. + Grnd. Elev. are the

B.C. + 51<sup>2</sup> = Nly. Rail - 1<sup>st</sup> track

7.11	4.75	6.54	6.15
4.48	4.84	5.03	5.44
16		24	60
			E.C. line
	11.59		
	11.61		

6+00.

4.30	4.20	4.53	4.40	5.10
<del>4.59</del>	<del>6.49</del>	<del>6.42</del>	<del>6.59</del>	7.39
5.0	5.1	4.77	4.9	4.2
25	18	17E	10	15
		R		

4.30	4.30	4.49	3.30	4.20	4.69	4.40	4.30	4.75
<del>4.59</del>	<del>6.59</del>	<del>6.77</del>	<del>5.57</del>	<del>6.49</del>	<del>6.98</del>	<del>6.69</del>	<del>6.59</del>	<del>7.04</del>
5.0	5.0	4.82	6.0	5.1	4.61	4.9	5.0	4.55
17	13	12E	5		4E	5	9	9E
		R &			R.			R
		End			+0-d			

5+85- 15' RT = ± 10' wide conc. walk

5.30	6.16	6.26
<del>7.59</del>	<del>8.45</del>	<del>8.55</del>
4.0	3.14	3.04
15	15	25
End		

R = top of rail

5+00

5.20	5.30	5.51	5.20	4.43	5.10	5.30
4.1	4.0	3.79	4.1	4.87	4.2	4.0
25	19	18E	18	9E	10	15
		R		R		

5.40	5.51	5.40	4.30	5.10	5.30	5.47	5.30	5.10
3.7	3.79	3.9	5.0	4.2	4.0	3.83	4.0	4.2
14	13E	13	6		4	4E	5	9
		R				R		
				9.30				
				<del>9.32</del>				

T.P.	2.69	9.30	4.98	6.61	6.63
		<del>9.32</del>			

A+36E 15' RT. = end platform conc.

5.99	7.03
5.6	4.56
15	15
End	conc.

11.59
<del>11.61</del>

7+30 } - 25<sup>E</sup> Rt = end conc. yard.

6+88 } 19<sup>E</sup> Rt. = edge of conc.  
 1<sup>E</sup> Lt. = line of fence

6+63 } 15<sup>E</sup> Rt. = start conc. <sup>paved.</sup> Junk yard  
 15<sup>E</sup> Rt. = end conc. loading dock

T.P. 4.76      9.55      4.51      4.79  
                  9.57      ~~4.81~~

6+25 } loading dock.  
 15<sup>E</sup> Rt = start 3' high conc.  
 2<sup>E</sup> Lt. = start 8' high corr. iron fence

4.00	3.90	4.16	4.00	4.40	5.00	8.70
5.3	5.4	5.14	5.3	4.9	4.3	0.6
25	19	18 <sup>L</sup>	18	10	15	15 <sup>E</sup>
		R.				top of dock

3.90	4.15	3.70	4.70	4.80	4.20	4.5	4.40	4.30	4.59
5.4	5.15	6.1	4.6	4.5	5.1	4.78	4.9	5.0	4.72
14	13 <sup>L</sup>	6	3	4	4.3	5	8	9 <sup>L</sup>	
	R +								
	Gr.								

9.30  
9.32

Levels  
 see page 31 for left side

4.81	4.55	4.85	4.35
4.74	5.0	4.7	3.2
78 <sup>E</sup>	19	25 <sup>E</sup>	25 <sup>E</sup>
R		end	conc

4.45	4.45	4.80	4.45	4.45
5.1	5.1	4.75	5.1	5.1
	13	13 <sup>E</sup>	14	18
		R		

4.45	5.35	6.45
5.1	4.2	3.1
13	19	19 <sup>E</sup>
		conc.

4.65	4.65	4.45	4.82	4.45	4.35	4.81
4.9	4.9	5.1	4.73	5.1	5.2	4.74
3		7	7 <sup>E</sup>	8	12	12 <sup>E</sup>
			R			R

9.55	8.75	6.45
9.57	0.8	3.1
	15 <sup>E</sup>	15 <sup>E</sup>
	dock	conc.
		yard

3.22 3.32 3.56  
 5.1 5.0 4.76  
 25 18 173  
 R

6+88 cont

3.32 3.32 3.58 3.52 2.92  
 5.0 5.0 4.74 4.8 5.4  
 17 13 12 12 4  
 R

T.P. 4.52 <sup>4.32</sup> 8.34 5.14 <sup>3.80</sup> 3.82  
 T.P. 4.14 <sup>4.94</sup> ~~8.96~~ 4.75 <sup>4.80</sup> 4.82

<sup>4.32</sup>  
~~8.34~~

17+59 = } cross fence.

4.92 4.75 4.95  
 4.63 4.8 4.6  
 27 28 30  
 R

17+57 - 1 1/2 Lt. = Δ in fence.

4.75 4.65 4.94 4.55 4.55  
 4.8 4.9 4.61 5.0 5.0  
 22 22 23 27  
 R

17+50 } 2 Lt = line of fence

4.55 4.91 4.75 4.95  
 5.0 4.64 4.8 4.6  
 24 24 25 30  
 R

4.45 4.55 4.90 4.55  
 5.1 5.0 4.65 5.0  
 19 19 20  
 R  
 9.55  
~~9.57~~



Cont. P. 34

(See sketch-p33)

Rail + Grd Elev. the same  
taken on diagonal

7+59<sup>04</sup> } = N. Fly line National  
start A.C. Pauc.

7+30

7+30 } Cross fence

top Hydt.

T.P. - 1 240

7.78

7.80

2.94

5.38

5.40

7+30

3.15 3.10  
4.63 4.68  
R R  
47 203

3.12 3.09 2.98 3.88 3.08  
4.66 4.69 4.8 3.9 4.7  
26 18 6 25  
R R

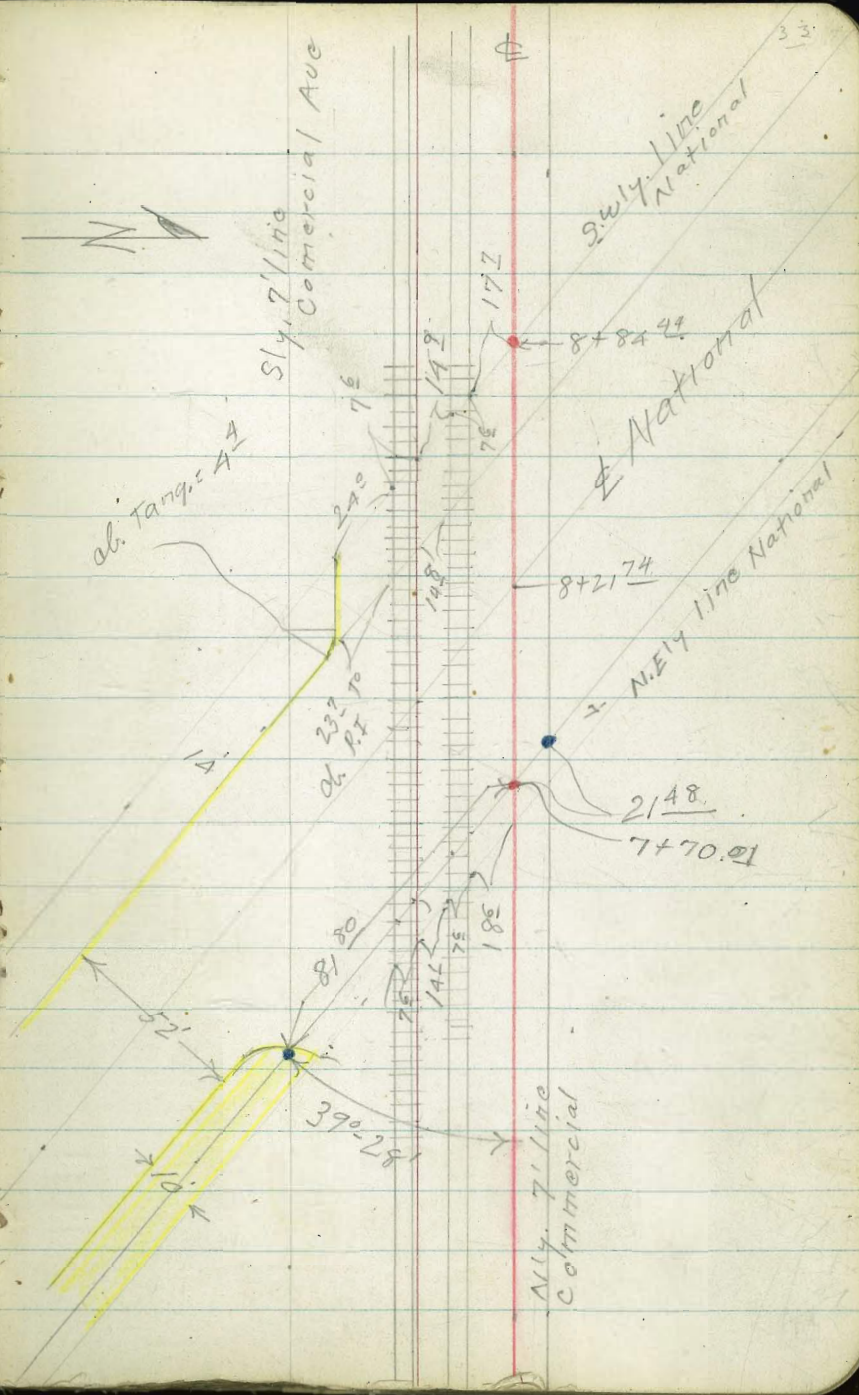
3.08  
4.70  
303  
R + Grd

3.08 3.15 3.14 2.78  
4.70 4.63 4.62 5.0  
25 15 11 3  
R R R + ~~7.78~~  
+ Grd + Grd + Grd

3.22 3.22  
5.1 5.1  
24 18

3.15 3.17 2.42 4.32  
5.17 5.15 5.5 4.0  
17 12 4 3  
R R  
+ Grd + Grd  
~~8.32~~  
8.34

National  
 $7+70^{01} = \text{Intersect N. Fly. 7' line}$



9+72 15' Lt. = Frog

3.19	2.84	2.74	3.21
4.75	5.1	5.2	4.73
30.2	30	25E	25E
R	End	End	R

9+11 } 109' Lt. = switch point

2.74	3.20	2.74	3.20	3.04	3.74
5.12	4.74	5.12	4.74	4.9	4.12
15E	15E	109	109		15
End	R	End	R		

stop shelter room

9+03 - 10' Rt. = sly. Cor. 4'x8' bus

8+84 <sup>44</sup> 11' Rt. = end cl.  
End A.C. Pave.  
S.Wly. line National

2.96	2.94	2.94	2.94	2.78	2.50	2.89	3.54
4.98	5.00	5.00	5.00	5.16	5.44	5.08	4.4
478	40E	25E	17E		11E	11E	25
R	R	R	R		G	cl.	

8+62 <sup>50</sup> 38' Rt. = B.C. 10' Rad. Cl. Ret.  
S.Wly cl. line National

2.94	2.40	2.90
5.00	5.50	5.04
7.94	38	38
<del>7.96</del>	G	cl.

T.P. 4.86 <sup>7.94</sup> ~~7.96~~ 4.70 3.09 3.10

8+21 <sup>74</sup> National

2.93	2.95	3.02	3.06	3.15	3.27
4.85	4.83	4.76	4.72	4.63	4.51
47E	40E	25E	18E		25
R	R	R	R		
				7.78	
				<del>7.80</del>	

✓ 10+71 - 12' Rt = deadman

✓ 10+66<sup>4</sup> - 26<sup>E</sup> Rt. = wly end sign<sup>board</sup>

✓ 10+66 - 9<sup>z</sup>' Rt. = deadman

✓ 10+53 - 15' Rt. = Ely. end sign board

3.16	3.52	3.46	3.43	3.39
5.6	5.24	5.30	5.33	5.38
30 <sup>z</sup>	30 <sup>z</sup>	28 <sup>z</sup>	25 <sup>E</sup>	23 <sup>E</sup>
End R	R	R	R	R

10+35<sup>34</sup> sections radial to curve

B.C. = 10+35<sup>34</sup> (Sketch Page 20)

3.36	3.65	3.26	3.62	2.96	3.66
5.4	5.11	5.5	5.14	5.8	5.1
15	15	10 <sup>z</sup>	10 <sup>z</sup>	8.76	15
End R	R	End R	R	8.78	

5.51 ~~8.76~~ A169 ~~3.25~~ 3.27

T.P. - P.I. - Mub.

✓ 10+12 25<sup>E</sup> Lt. = Frog

3.04	3.42	3.39	3.34	3.34
4.9	4.52	4.55	4.60	4.60
30 <sup>z</sup>	30 <sup>z</sup>	25 <sup>z</sup>	23 <sup>z</sup>	19 <sup>z</sup>
End R	R	R	R	R

3.57	3.14	3.54	3.14	2.94	3.24
4.37	4.8	4.40	4.8	5.0	4.7
15 <sup>L</sup>	15 <sup>L</sup>	10 <sup>L</sup>	10 <sup>L</sup>		15
R	End R	R	End R		

10+00

7.94  
7.96

±

of rails.

A.C. Paired yard. south

✓10+98<sup>1</sup> } Cross rail

3.36	3.61	3.26	3.62	3.62	3.36	3.86
5.40	5.15	5.5	5.14	5.14	5.4	4.9
30	1	±				
A.C.	A.C.	Grd		R	Grd	Grd

✓10+93<sup>2</sup> } Cross rail

3.26	3.67
5.5	5.09
±	R
Grd	

✓10+86<sup>3</sup> } 9' Lt. = switch point

✓10+85 } 30' Rt. = ~~pole~~ # Guy pole.

✓10+79<sup>4</sup> } Cross rail

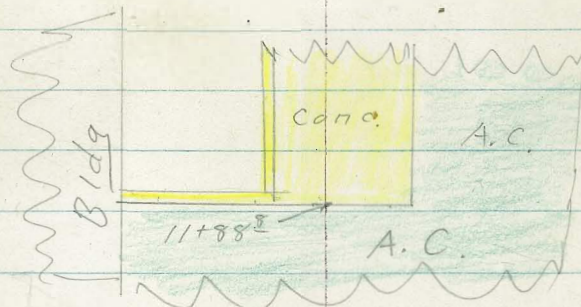
3.46	3.80
5.3	4.96
±	R
Grd	

3.58	3.58
5.18	5.18
24L	23E
R	R

✓10+71<sup>3</sup> } Cross rail

3.16	3.56	3.56	3.78	3.83	3.46	3.56	3.56
5.6	5.20	5.20	4.98	4.93	5.3	5.2	5.2
182	183	179	55	Rail	±	15	20
Grd	R.	R	R		Grd		

8.76  
8.78



4' Lt. } = start 4" wide 6" High Conc. wall.  
 4' Lt. } 4" N. + S. 6" High Conc. wall  
 7' Rt. } start Conc. Pavc.  
 7' Rt. } Ely edge A.C. Pavc.

✓ 11+88<sup>8</sup> = End A.C. East of prop. Line

4.14	3.91	3.79	3.53	3.42	3.31	2.82
4.15	4.38	4.50	4.76	4.87	4.98	5.47
20	20	4	4	7	7	20
top of wall	A.C.	Top wall				

End

11+50

3.94	3.65	3.49	3.41
4.35	4.64	4.80	4.88
20		7	20

T.P.E.C. Nail

4.60    8.29    5.07    3.69  
           8.31            3.71

8.29  
~~8.31~~

✓ 11+37<sup>3</sup> 20<sup>3</sup> Lt. = N.W. Cor. Ice Company Loading dock + Bldg.

✓ 11+29<sup>85</sup> = E.C. Cor A.C. Pavc.

3.64	3.69	3.64	3.64
5.12	5.07	5.12	5.12
20		7	20

11+10

3.57	3.63	3.76
5.19	5.13	5.00
30		
A.C.		R. &
	8.76	A.C.
	<del>8.78</del>	

$\checkmark$  12+80 <sup>RE?</sup> 7' Lt. =  $\Delta$  in A.C. Pavc.  
~~12+36~~ = cross rail  
 ↙ side track to  
 ↙ Union oil co. yard.

2.79	2.88	2.87	3.07
5.50	5.41	5.42	5.22
20	7	R	R
R	A.C.		20

$\checkmark$  12+75<sup>2</sup> = cross rail

2.84	2.89	3.06
5.45	5.40	5.23
20	R	R
R		20

$\checkmark$  12+70 - 22<sup>3</sup> Lt. = end Foe. Co. Bldg.

=  $\pm$  E. & W. wire fence.

$\checkmark$  12+68<sup>5</sup> 2' Lt. = start wire fence

$\checkmark$  12+68 4' Lt. = end conc. wall.

3.48  
4.81  
4  
top

$\checkmark$  12+62 <sup>18<sup>5</sup> Lt. = Ely. pole</sup> } For 3' bank  
<sup>15' Lt. = wly. pole</sup> } Transformer  
 platform

$\checkmark$  12+61<sup>5</sup> = end conc. pave.

3.49	3.52	3.28	3.17	2.99	2.97
4.6	4.77	5.01	5.12	5.30	5.35
20	4	4	7	20	20
	T.W.		A.C.	A.C.	
	end		+	+	
			conc		

$\checkmark$  12+42<sup>5</sup> 16<sup>7</sup> Rt. = dead man

$\checkmark$  12+35 = 6' Rt. = dead man

Conc. curb,  
pole set. in 4' diam ring of

$\checkmark$  12+31 17<sup>4</sup> Rt. = 12" pole (gone)

$\checkmark$  12+20 21<sup>5</sup> Rt. = Ctr. 2<sup>5</sup> x 3<sup>5</sup> grate

3.99	3.62	3.39	3.34	3.22	2.19	2.18
4.3	4.67	4.90	4.95	5.07	6.10	6.11
20	4	4	7	20	21 <sup>2</sup>	grate
	T.W.	pave				
	+					
	end					

$\checkmark$  12+13<sup>2</sup> 5' Lt. = Fill pipe for tanks

$\checkmark$  12+11<sup>6</sup> 5' Lt. = Ctr. gasoline pump,  
(on 4' x 6' conc. base)

8.29  
8.31

33 ERX } = side track  
 195 RT. }

13+82.58 = 6' Mt. = edge pave.  
 Mid Curve

2.28 2.11 2.86 3.02 3.77 3.72 3.76  
 7.58 7.75 7.00 6.84 6.09 6.14 6.1  
 50 33 6 195 335 50  
 E.P. R R

13+69 on AC.

2.08 2.04 2.96  
 7.78 7.82 6.90  
 20 9.84 10  
 9.84  
 9.88

T.P. 7.13 ~~9.86~~ 9.88 6.13 2.73 P.K.  
 2.75 P.I. Nail

13+48.05 = B. C. RT.

1.72 2.01 2.32 2.44 2.51 3.08  
 7.14 6.85 6.54 6.42 6.35 5.78  
 25 15 15 25 46  
 8.86  
 8.88 E.P.

T.P. 6.13 ~~8.86~~ 8.88 5.56 2.73  
 P.I. - P.K. Nail

12+99<sup>7</sup> = Cross rail.

Rail + Pave  
 Same Elev.

3.00 3.11 3.24  
 5.29 5.18 5.05  
 20 20  
 R R  
 + E.P.

12+94<sup>8</sup> = Cross rail ← Side track to Union oil C.

2.84 3.06 3.10  
 5.45 5.23 5.10  
 20 20  
 R R

12+89- 4' Lt. = E.W. wire fence  
 4' Lt. = end wire fence

2.69 2.98 3.04 3.09 3.17  
 5.6 5.31 5.25 5.20 5.12  
 25 6 7 20  
 E.P.  
 9.29  
 8.81



19<sup>5</sup> Lt. = start conc. Ret. wall  
 0.3 Lt. South in fence  
 14+42 =  $\Delta$  east in fence - 19<sup>5</sup> Lt. = A

4.66	3.50	4.46
5.2	6.3	5.4
19 <sup>5</sup>	19 <sup>5</sup>	19 <sup>5</sup>
T.W.	B.W.	Grd

14+17<sup>12</sup> = E.C. 0.3 Lt. = line of fence.

4.46	4.16	3.86
5.4	5.7	6.0
50		50

looks like old scale pit.  
 22' E+W. conc. rectangle

14+15 - 22' Rt. = S. Ely. cor. 11' N. & S. X

3.85  
 6.01  
 22  
 top of conc.

13+93<sup>L</sup> 3' Rt } track rails  
 = Ely end side

3.79  
 6.07  
 3  
 R. + Grd.

13+88 2' Lt }

3.77  
 6.09  
 2  
 R + Grd.

Pipe Posts - set in conc.  
 Also end fence on sly. line Newton

13+86<sup>E</sup> - 5<sup>7</sup> Lt. = start of high chain.  
 link fence

13+84<sup>E</sup> = end Pave

3.00  
 6.86

9.86  
~~9.88~~

- ✓ 1A+83 - 20' Lt. = dead man for fence. con
- ✓ 1A+77 - 1A' Rt. = 14" pile.
- ✓ 1A+76 21' Rt. = 16" pole \* Guy pole

4.76	4.66	2.86	4.16
5.1±	5.12	7.0	5.7
50	28	28	28
	T.W.	B.W.	Grd.

28' Lt. Δ to south in fence + wall.  
 1A+73<sup>E</sup> } 19<sup>E</sup> Lt. = Δ east in fence + wall

4.66	2.86	3.26	(-3.94)	(-4.24)	(-3.54)	4.66	4.86
5.12	7.0	6.6	13.8	14.1	13.4	5.12	5.0
195	195	19	15		13	20	50
T.W.	B.W.						

1A+65 = end bridge deck

4.96	4.66	4.66	4.66	4.66
4.9±	5.2	5.2	5.2	5.2
50	16		15	50
	E. end deck		w. end deck	

1A+59<sup>4</sup> = cross rail

	4.84	4.93	3.59
	5.02	4.93	5.27
50	20	R	50
			R

1A+54<sup>7</sup> cross rail

	4.80	4.91	4.66
Gate Yoked	5.06	4.95	5.20
50	20	R	50
			R

1A+89 (See page 51)

1A+48<sup>6</sup> = start bridge deck

4.56	4.66	4.66
5.13	5.12	5.12
155		151
E. end deck		w. end deck
	9.86	
	9.88	

Note: High tide, will get under bridge data later. (See page 50)

✓ 15+50 - 12" pile bulkhead piles 10' ± apart  
 16' Lt. = start 3" plank +

rough grout conc. slab  
 also = 2 9' long 6' wide  
 15+42 - 21' Lt. = outlet 2" drain

28' Lt. = line of wall  
 21' Lt. = lead man for guy pole

✓ 15+23 } 3" plank + 12" piles (approx 10' apart)  
 1A<sup>3</sup> Rt. = start bulkhead

✓ 15+10 - 10' Rt. = outlet 8" <sup>rod</sup> stove drain

✓ 14+91<sup>5</sup> 1A' Rt. = 12" pile

no marking, cart lift up.  
 ✓ 14+85 - 26' Lt. = 4x4 conc. cover to vault  
 1A' Rt. = 12" pile

42

4.56	4.06											
5.3 ±	5.8											
50	29											
2.46	2.36	1.26	(-3.04)	(-4.14)	(-3.84)	(-3.54)	1.66	3.26	4.56	4.86		
7.4	7.5	8.6	12.9	14	13.7	13.4	8.2	6.3	5.3	5.0		
28	22	16	15	12		13	14	18	28	50		
		Top					Top.					

1.81  
 8.05  
 21  
 I.E. PIPE

4.86	4.36	2.56	4.86
50 ±	5.5	7.3	5.0
50	28	28	50
	7.0	8.0	

3.06	2.76	(-3.54)	(-3.84)	(-3.24)	1.36	3.86	4.86
6.8	7.1	13.4	13.7	13.1	8.5	6.0	5.0
28	21	7		14	14.3	23	32
End					Top.		

(-4.34)	(-1.14)	+0.86
14 ±	11.0	9.0
10	10	10.5
End	I.E.	17 take

9.86  
~~9.88~~

end.  
add 7' wide porch on south  
17+15E 14' RT = end Bldg. shed.

3.47	2.57	1.27	(-3.23)	(-4.53)	(-4.63)	(-7.33)	2.47	3.55
3.32	4.2	5.5	10.0	11.2	11.4	11.1	4.3	3.22
50	17	15E	15	13		13	14	50
		top.					Top.	

17+00 nail  
T.P. 2.98 6.77 6.05 3.81  
6.79 3.83

6.77  
6.79

end.  
5' wide plank porch on north  
Cor. Iron. shed.  
16+78E 14' RT = start 21' wide  
16+71 - 14' RT = ± 18" E+W. wood stoop  
Paved strip. pipe drain  
16+44 - 46' RT = start ± 24' wide A.C.

5.06  
4.8  
143 Floor level  
(-1.64)  
11.5  
14  
F.E. 4.16  
5.7  
46  
± A.C. strip

3.56	3.66	0.66	(-4.84)	(-4.44)	(-2.74)	1.36	2.96	3.66	4.16
6.3±	6.12	7.12	14.7	14.3	12.6	8.5	6.9	6.12	5.7
50	21	16	13		13	14	15	25	50
							TOP		

continue fence.  
15+90 = 28' Lt. = end conc. wall but

3.46	1.76	3.46
6.4	8.1	6.4
28	28	28
T.W.	B.W.	End

with anchor irons in it.

15+58 27' RT = Ctr. 7' x 8' Conc. platform

9.86  
9.88

19+02 - 21' Lt. =  $\Delta$  2<sup>5</sup> drain thru bulkhead  
 1/2 add of 19+30  
 T.P. 4.45 6.61 4.63 2.14 2.16  
 (-0.11) (-3.35)  
 6.7 9.94  
 25 21  
 ctr. 22 diam I.E.  
 grate 6.59  
6.61

19+00 } 21' Rt. } line of Bulkhead.  
 20' Lt. } tank to south.  
 21<sup>5</sup> Rt. also = start 1 1/2" line from  
 18+31 } 21<sup>5</sup> Rt. =  $\Delta$  1 1/2" line from tank  
 (Horizontal + on blocks)  
 steel pressure tank.  
 18+2A } 37' Rt. =  $\Delta$  2' diam - 10<sup>5</sup> long

18+00 21' Rt. = line of bulk head  
 23<sup>5</sup> Lt. =  $\Delta$  1 1/2" pipe. Runs E.W. } From  
 23<sup>5</sup> Lt. = start N.E. 1 1/2" pipe } tank

17+94 } 27<sup>3</sup> Lt. = end chain link fence  
 17+32 } 46' Rt. = end 4' wide A.C. strip

21' Lt. =  $\Delta$  to So in bulk head.  
 15<sup>5</sup> Lt. =  $\Delta$  to east in bulk head.

17+28 } 21' Rt. =  $\Delta$  south } in bulk head.  
 14' Rt. =  $\Delta$  west }

2.07	1.77	1.27	(-4.33)	(-3.23)	(-4.23)	1.17	1.87		
4.7	5.0	5.5	11.1	10.0	11.1	5.6	4.9		
50	30	20 <sup>5</sup>	20			21	50		
		top.				top			
2.77	2.07	1.27	(-2.93)	(-4.23)	(-4.23)	(-3.93)	(-2.43)	1.37	1.77
4.01	4.7	5.5	7.7	11.0	11.0	10.7	9.2	5.4	5.0
50	23	20 <sup>9</sup>	20	17		15	21	21	50
		top						top	
3.37	2.97	2.17				3.47	3.27		
3.4	3.8	4.6				3.3	3.5		
50	28	23				46	50		
						$\Delta$ A.C.			
1.27	(-1.13)	1.27	(-3.43)	(-4.53)	(-4.33)	2.37	(-0.03)	2.37	
5.5	7.5	5.5	10.2	11.3	11.1	4.4	6.8	4.4	
21	21	15 <sup>5</sup>	15		13	14	20	21	
top	end	top &				top	end	top	
	to So	end				end	to So	to end	
		to No				to No		to No	
						6.77			
						<u>6.79</u>			

19+76.4	cross rail	2.45 4.14 50 R	2.58 4.01 R	2.42 4.17 50 R
19+71.2	cross rail	2.49 4.10 50 R	2.60 3.99 R	2.47 4.12 50 R
19+61.4	cross rail	2.75 3.84 50 R	2.75 3.84 R	2.59 4.00 50 R
19+56.8	Rail cross	2.76 3.83 50 R	2.75 3.84 R	2.59 4.00 50 R
19+48.5	cross rail	2.78 3.81 R	2.74 3.85 23.5 switch point	2.71 3.88 R
19+43.8	cross rail	2.75 3.84 50 R	2.71 3.88 23.5 switch point	2.72 3.87 R
19+26.5	start piles (see P-52)	1.19 5.14 50	1.59 5.10 22.5 end of deck	1.79 4.8 22.4 end of deck
19+23	start bridge = cross 1 1/2" pipeline			
21.5 (H)	end N.S. 1 1/2" pipes			
22.3 (H)				
19+13.5	20' H. = 18" drain thru bulkhead	(-2.01) 8.60 20' 18" drain	6.59 6.61	

(see P-52) will be shown later  
 High tide - underneath bridge  
 ground is 0.4 below rail Elev.

20+13

1.85	1.35	<del>3.95</del>	5.25	<del>3.75</del>	1.35	2.05
4.9	5.4	10.7	12.0	10.5	5.4	4.7
50	20'	20'		21	21	50
	Top.				Top	

on deck of bridge

20+12<sup>3</sup> = leave bridge deck

1.85	1.95	2.15	1.95	2.05
4.9	4.8	4.6	4.8	4.7
50	21.7		22.6	50
	end of bridge		End of bridge	

T.P.	4.25	<u>6.75</u>	4.09	<u>2.50</u>	7.52
------	------	-------------	------	-------------	------

6.75  
6.77

20+06<sup>4</sup>

cross rail

2.65	2.69	2.52
3.94	3.90	4.07
50	R	50
R		R

20+01<sup>7</sup>

cross rail

2.64	2.72	2.46
3.95	3.87	4.13
50	R	50
R		R

✓ 191<sup>4</sup>

cross rail

2.94	2.93	2.76
3.75	3.76	3.83
50	R	50
R		R

1 c 86<sup>7</sup>

cross rail

2.84	2.84	2.76
3.75	3.75	3.83
50	R	50
R		R

6.59  
6.61

✓ 21+81 - 38' RT. = end bulkhead

<del>(-3.55)</del>	<del>(-3.65)</del>	<del>(-4.75)</del>	<del>(-5.95)</del>	(1.65)	1.45	1.75
10.3	10.4	11.5	12.7	8.4	5.3	5.0
50	22	20		20	32	50

✓ 21+74 21' RT. = Δ in bulkhead

<del>(-1.35)</del>	<del>(-1.85)</del>	<del>(4.95)</del>	<del>(5.95)</del>	<del>(-1.65)</del>	1.65	0.95	0.25
8.1	8.6	11.7	12.7	8.4	5.1	5.8	6.5
50	20	19		20	21	22	50

Top

(see plans - trunk sewer)

21+58 - 22' RT. & 4' wide spillway

<del>(-4.55)</del>	<del>(-0.20)</del>
11.30	6.95
22	22
Bottom	Top of
conc.	wing walls

to be shown later  
Tide is in - pile data  
Side Harbor Drive bridge

21+16<sup>4</sup> = Nly. face of piles on Nly.

<del>(-0.35)</del>	<del>(-0.55)</del>	<del>(3.65)</del>	<del>(6.25)</del>	<del>(3.65)</del>	1.55	1.45
7.1	7.3	10.4	13.0	10.4	5.2	5.3
50	21	18		21	21	50

Top

20+75

<del>(-0.75)</del>	<del>(-0.75)</del>	<del>(2.75)</del>	<del>(-5.75)</del>	<del>(-4.05)</del>	1.25	2.55	2.75
7.5	7.5	9.5	12.5	10.8	5.5	4.2	4.0
50	22	20		20	20	32	50

Top

✓ 20+60 - 20' Lt. = end wooden bulkhead

1.75	1.35	<del>(-2.75)</del>	<del>(-5.75)</del>	<del>(-3.95)</del>	1.25	2.55	2.75
5.0	5.4	9.5	12.5	10.7	5.5	4.2	4.0
50	20	20		20	20	32	50

Top  
Top  
Top

✓ 20+28 - 25' Lt. = pole No #. R.R. Co. wires

~~6.75~~  
6.77



22+17<sup>3</sup> = Cross rail

22+16<sup>2</sup> = Cross rail

22+12<sup>2</sup> = Cross rail

22+11<sup>1</sup> = Cross rail

(see page 55)

bridge data later.

Tide in - will get under

22+04 = Nly edge bridge (on deck)

Taken on  $\Delta$  74°-49°

21492

TIP. 454. ~~6.57~~ 4.72 ~~2.03~~ 2.05

Ground 0.5 below rails  
all on  $\Delta$  - 74°-49° to east.

2.35  
4.22  
50  
R

2.35  
4.22  
50  
R

2.36  
4.21  
50  
R

2.39  
4.18  
50  
R

2.37  
4.20  
39  
Frog

2.37  
4.20  
40  
Frog

1.87  
4.17  
50

1.47  
5.1  
42  
end of  
bridge

1.67  
5.0

1.87  
4.17  
30  
End.  
Bridge

(- 1.53) (- 1.23) (- 5.83) (- 5.63) (- 2.63) 1.47 1.67  
8.1 7.8 12.4 12.2 9.2 5.1 4.9  
50 25 20 20 25 50

~~6.57~~  
~~6.59~~

2.41  
4.16  
R

2.40  
4.17  
R

2.49  
4.08

2.44  
4.13

2.35  
4.22  
30  
switch  
point

2.35  
4.22  
30  
switch  
point

2.39  
4.18  
30  
switch  
point

2.39  
4.18  
30  
switch  
point

1.67  
4.9  
50

#

48

22+92<sup>23</sup> = cross on head wall

2.43  
4.14

22+92<sup>4</sup> = intake double 10' x 5' box  
culvert

2.43	(-6.37)	2.43	(-6.34)	2.43
4.14	12.94	4.14	12.93	4.14
26.9	5.2	Top Hd	5.2	28.3
End of	I.E.	Wall	I.E. of	end of
Head wall	of Box		Box	Head wall

22+92 on A to east

1.57	2.47	(-2.23)	(-6.23)	(-6.43)	(-6.03)	(1.23)	1.17
5.0	4.1	8.8	12.8	13.0	12.6	7.8	5.4
50	27	25	12		11	28	50

22+52 - in ditch at 90° to  $\phi$

1.77	0.97	(-4.13)	(-6.03)	(-5.33)	(-3.63)	(-0.43)	(-0.43)
4.8	5.6	10.9	12.6	11.9	10.2	7.0	7.0
50	40	33	25		35	40	50

22+45 = leave bridge  $\Delta$  7A°-A9'

1.87	1.37	1.17	1.27	1.57
4.7	5.2	5.4	5.3	5.0
50	31.5		39	50
	end of		end of	
	bridge		bridge	

22+38<sup>1</sup> = cross rail

2.43	2.40	2.35
4.14	4.17	4.22
50	R	50
R		R

22+33<sup>1</sup> = cross rail

2.47	2.42	2.40
4.10	4.15	4.17
50	R	50
R		R

6.57

# Bridge #1

Pile location EL. = 2.10  
Nail in sly side S.Ely pile

o = denotes pile  
distances are to ctr. of piles.

1A+67<sup>5</sup> end of bridge bulk head.

1A+61<sup>4</sup> } piles 12" to 15" in diam  
Caps 12" high - 14" wide

Main Stringers } 6" high  
8" wide

1A+57<sup>6</sup> } Braces 10" x 10" Horizontal  
at caps

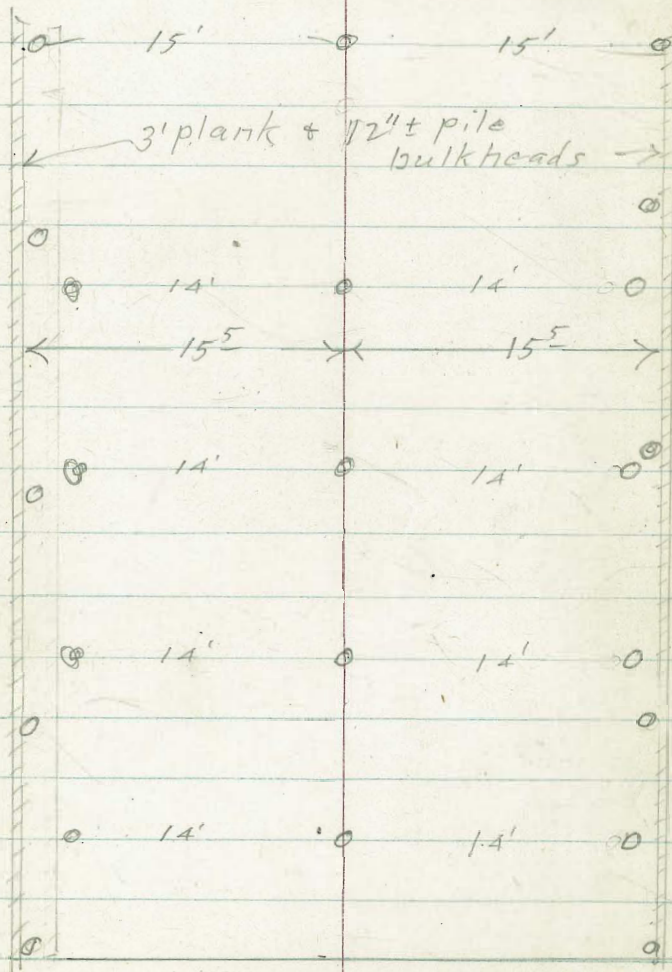
Elev. bottom of  
stringers = 2.40

1A+54<sup>5</sup> Elev. bottom of braces = 1.1

These can be removed  
during construction

1A+52

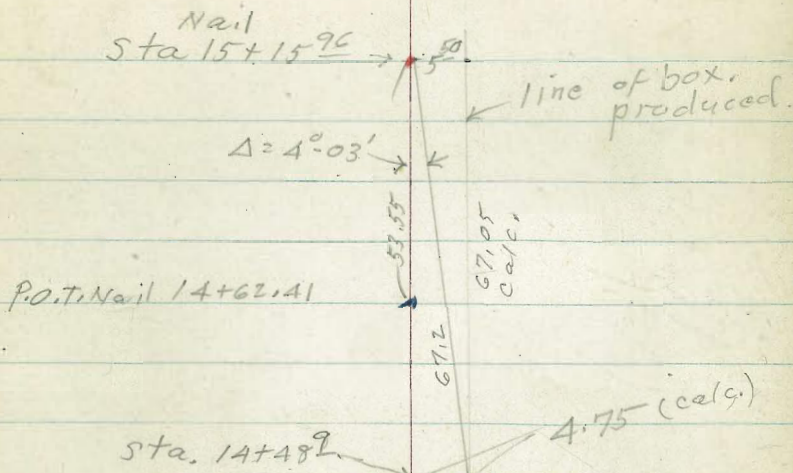
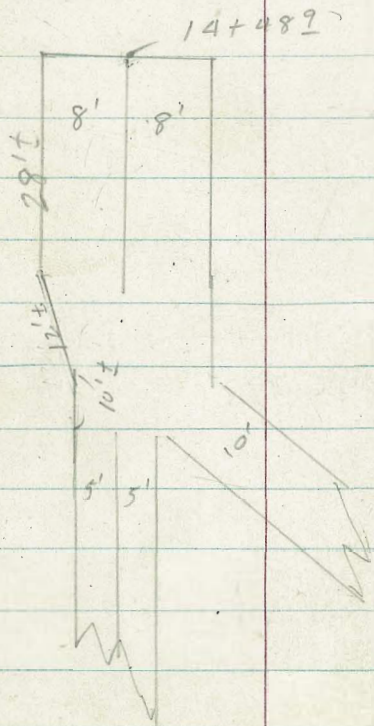
+ start bridge bulkhead  
1A+48<sup>6</sup> start bridge deck  
(From page 41)



Emd 5'6" x 8' double box culvert  
 Sta. 14+48.9 - see page 22 + 41

Below is guesstimation of  
 existing culvert design.

Can not get into it, even  
 with hip boots at low tide.  
 - ckd

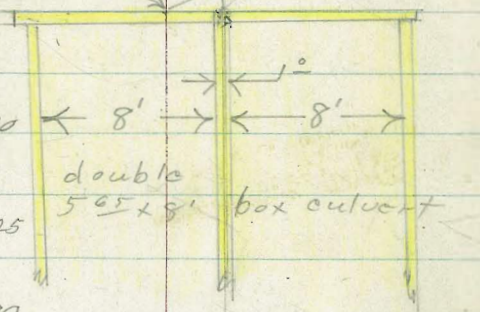


Elevations

Top Head wall = 3.30

Top of inside  
 of box = Minus 50.25

I.E. Box = Minus 5.90



Bridge #2 - see P-22 + P-45

Pile location

20+10<sup>E</sup>

Piles - 14" to 16" in Diam.

Elevation bottom

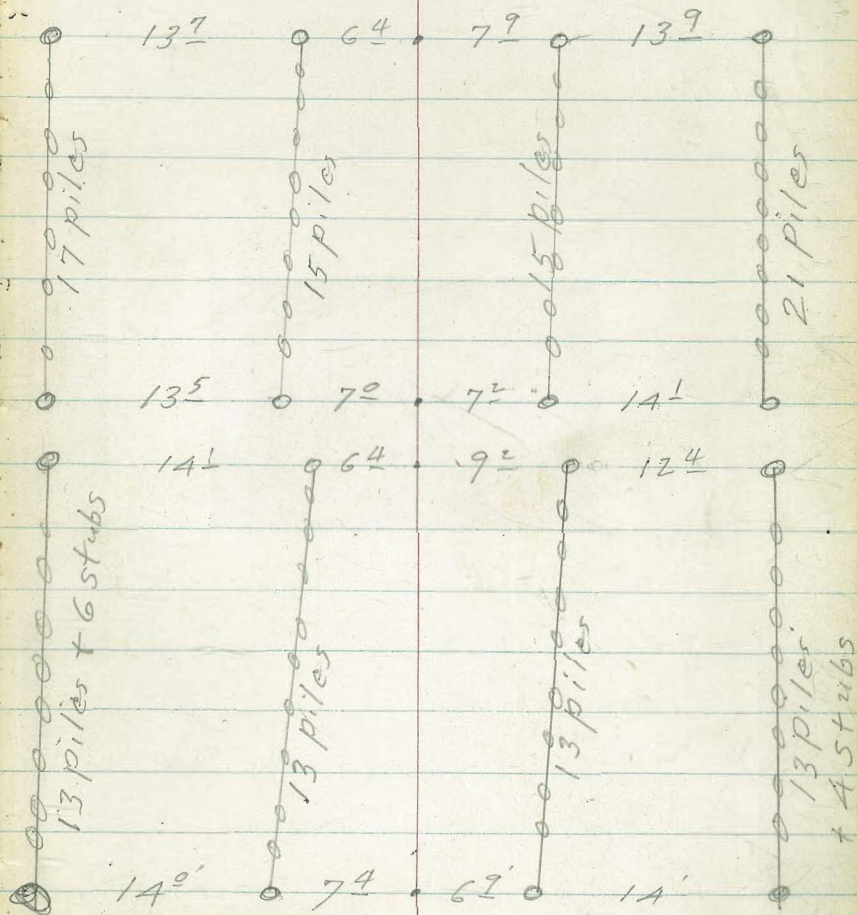
of stringers = -0.4'

19+68<sup>E</sup>

19+65<sup>E</sup>

{ stringers 16" high  
" vary in width  
Caps 12" x 12"

19+26<sup>E</sup>



20+39- (From P-22)

±

53

Pile stubs from old bridge  
1A" ± diam.

20+62

0 7' 8" 0

2+55

0 7' 7 1/2" 0

20+50

0 7' 7 1/2" 0

20+43<sup>5</sup>

0 7' 7 1/4" 0

20+39

0 7' 7 1/2" 0

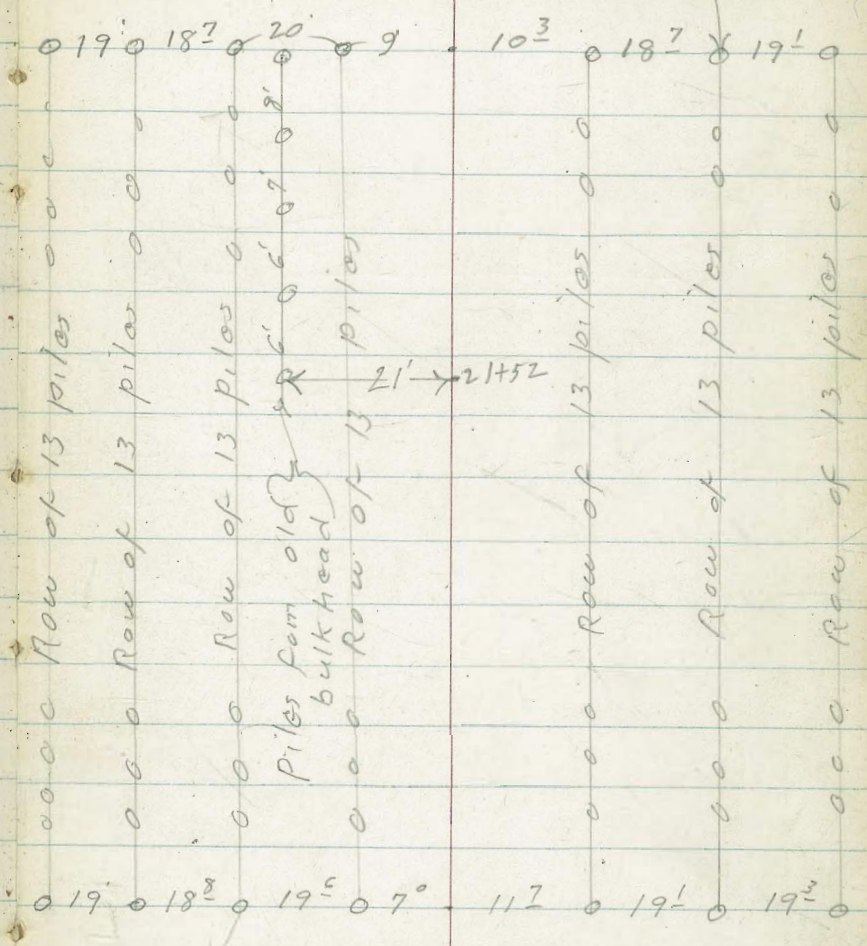
Bridge #3  
Harbor Drive bridge  
Pile location

From P 22+47

21+78

Each bent has 13 piles  
14" to 16" in diam.

21+14<sup>2</sup>



Bridge # 4

E

55

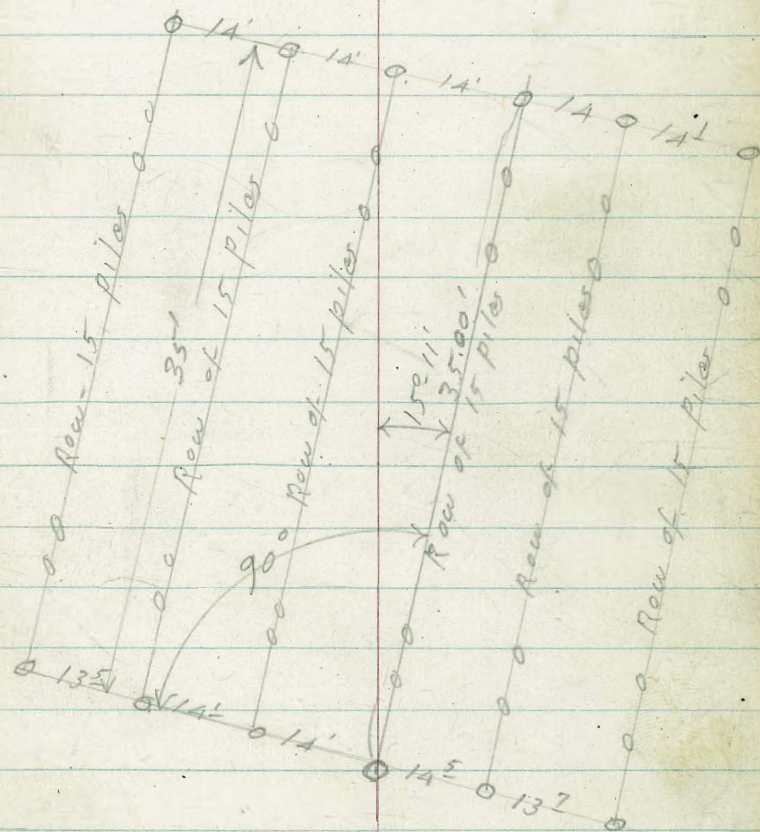
See page 224 48

Stringers 16" ± High  
caps 15" high - 14" wide  
Elev. <sup>bottom</sup> ~~top~~ of cap and  
bottom of stringer = - 1.2

{ EL Top of cap + bottom of  
stringer = EL + 0.2

Bent 35' long - 15 piles each

22+06.5 Δ 15°-11' to line of bent.





Roberts  
Cota  
Moore  
Morales  
11-9-53  
W.O. 32288

Survey for Proposed Storm Drain

Switzer Creek Drain

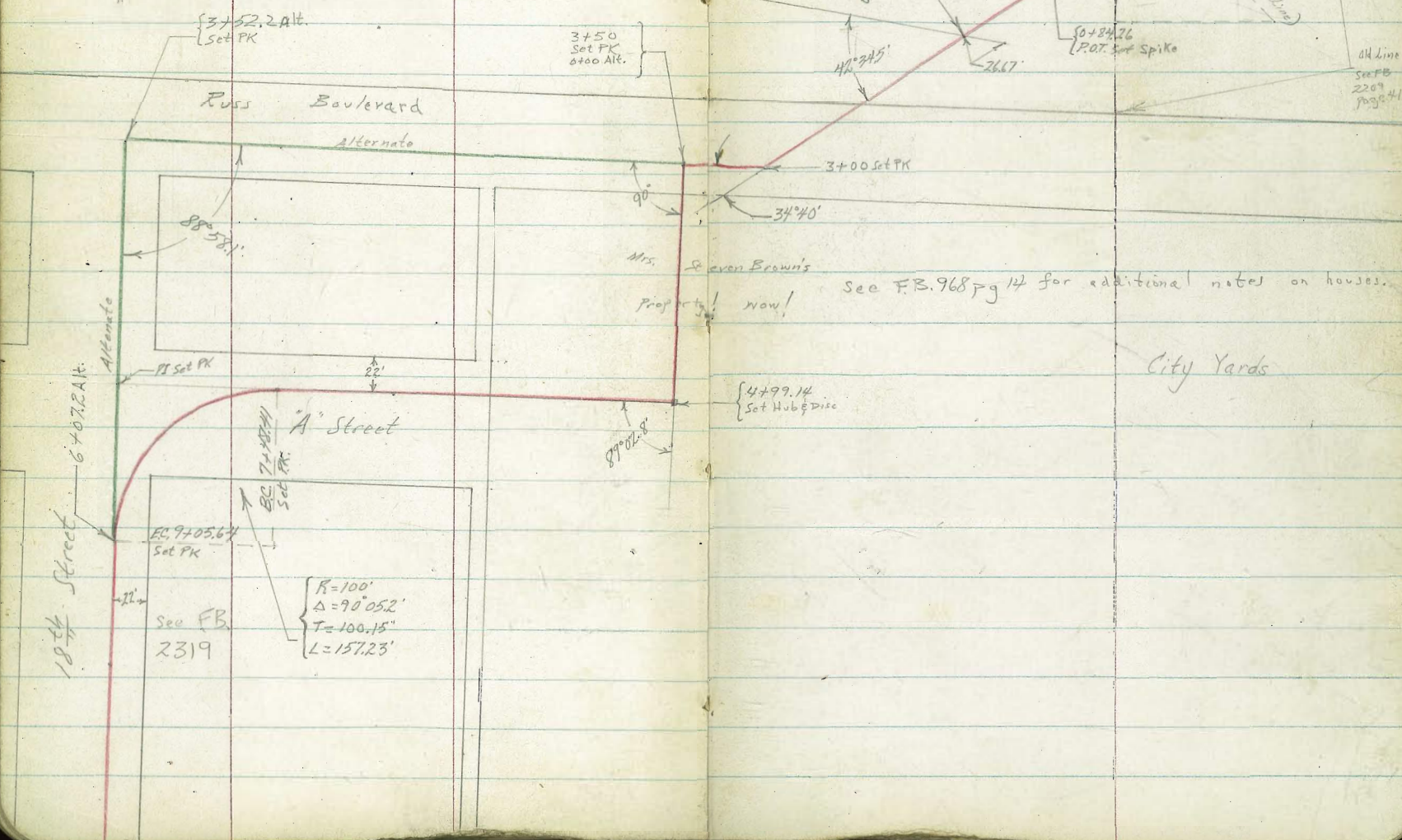
Line Change - See FB 2209 on 41

INDEXED

DEC 21 1953  
Tark

Balboa

56



Mrs. Seven Brown's  
Property! now!

See F.B. 968 pg 14 for additional notes on houses.

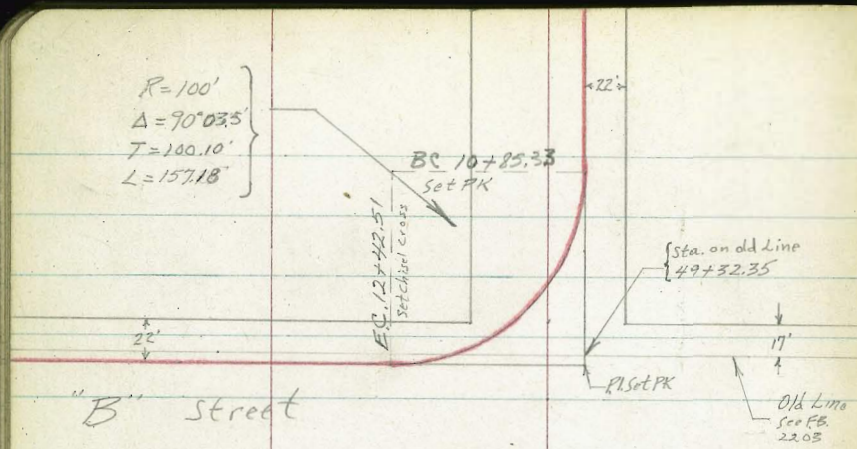
$R=100'$   
 $\Delta=70'05.2''$   
 $T=100.15''$   
 $L=157.23'$

fd Hub  
0+00 for  
this change

all line  
see FB  
2209 on  
page 41

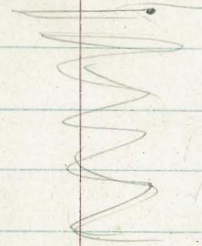
{ 4+99.14  
Set Hub & Disc

$R=100'$   
 $\Delta=90^{\circ}03'5"$   
 $T=100.10'$   
 $L=157.18'$

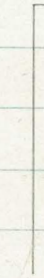


"B" Street

See FB 2319



19th Street



Old Line  
See FB  
2203

0+79 Top (Parking Yard Blacktopped)

62.9  
18.0  
27  
Toe

79.0  
2.9  
Top

79.5  
2.4  
39  
Toe

Higher

0+69.7 5<sup>5</sup> Lt to center P. Pole # ?

62.2  
18.7  
22  
Toe

75.7  
6.2

74.7  
2.8  
11  
Top

80.0  
1.9  
32  
Toe

Higher

0+57 Top of Fill same elev. as 0+51

0+60.7 3<sup>13</sup> RT to RCP Culvert. See 2209!

ε wash on right ε from this ε sta. to sta. of culvert. Right side on ε to ε.

0+51

62.1  
Lower 19.0  
Toe wet 28

66.2  
16.7

70.5  
11.7  
12

74.3  
7.6  
26

76.5  
5.0  
31E  
conc

79.5  
2.4  
31E  
conc

80.2  
12  
36E  
conc

0+35

62.4  
Lower 19.5  
Toe wet 30

69.5  
18.3

74.4  
4.5  
20

78.5  
0.4  
34

82.5  
+10.5  
50  
on top

0+11.5 9<sup>3</sup> Lt to center 18" Euc. Tree

0+00 = 9+72.25 FB 2209

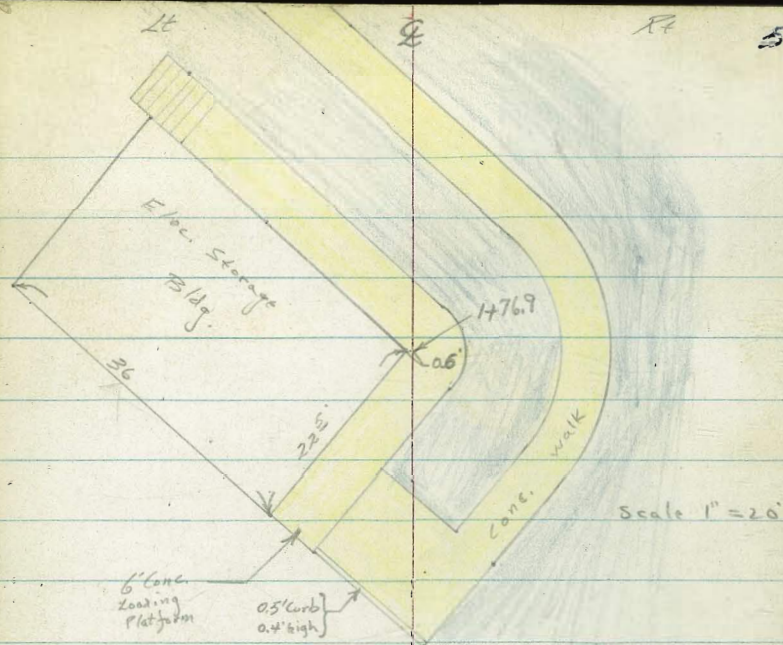
Section in FB 2209 still Good

TBM 6.21 81.88 T

Top Swiss Dam  
75.67 at ε of old

Line see FB 2209 page 51

81.88 T



T.P. 4.73 84.17  $\nabla$  2.44 79.44

1442

680	785	792	
17.9	3.4	2.8	2.0 higher
34	8	38	
Top	Top	Top	

1437 188 Lt to center P.Pole #C1415.

1431

694	786	790	790
17.5	3.3	2.9	2.1 Higher
33	13	40	
Top	Top	Top	

1429.88 Cross Corr. I.Pipe. See 2209 for elev.

1400

692	784	785	784
17.2	3.8	3.4	2.5 Higher
29	8	43	
Top	Top	Top	

81.88  $\nabla$

81.88  $\nabla$

Cont'd. From Page 59

2+61

Lt	E	R	60
782	791	895	922
6.0	4.3	<u>15.3</u>	<u>18.5</u>
40	Toe	11	20 Top

2+38.7

775	805	872
6.7	3.9	<u>10.6</u>
40	TOP Access Road	39 Top

2+34.5

772	836	882
6.8	5.5	<u>12.3</u>
40	Toe	14 TOP Access Road

2+20

773	785	842
6.9	5.7	<u>12.6</u>
40	TOP	42 TOP Access Road

2+00

822	792	781	792	792
2.0	4.9	5.5	5.0	4.8
272 cor. Bldg. TOP	183	183	24	41 Top

1+76.9

822	823	822	795	792
1.9	1.9	2.0	4.9	4.3
0.6		5.4	5.4	33 Top
cor. Bldg.				

1+58.2

820	820	785	789	795	800	higher
2.2	2.2	5.6	5.3	4.7	4.2	
15 Bldg. cor. 0	72	72		12	35 Top	

84.17

84.17

3+24.7 16<sup>1/2</sup> Lt to NW Corner House

3+13.5 11<sup>0</sup> Lt to center 18" Pepper tree

3+00 L Section Rt. Angles to Forward Tan.

92.1	92.8	87.1	87.1	87.2
X0	0	5.7	5.7	5.6
	22	10 <sup>3</sup>		17
	Top	Toe		House

2+94.5 21<sup>3</sup> Lt to NW Corner Garage

10<sup>8</sup> X 15<sup>3</sup>

2+86.3 27<sup>0</sup> Lt to N.E. Corner Garage

2+86.5 27<sup>1/2</sup> Lt to corner Elec. Bldg.

2+82.0 15<sup>2</sup> Lt to center NH

74.8	85.6	76.8	85.26	86.1	86.2	92.8	92.5
13.0	7.2	16.39	7.04	6.7	6.6	0	0.3
26	25	15 <sup>3</sup>	15 <sup>2</sup>		5	17	40
Toe	Top	Inv.	Rim		Toe	Top	

2+69.7 R Crosses fence on cutbank edge

2+66.5

74.8	74.3	85.1	92.8	92.5
14.0	13.5	7.4	0	0.3
25	7	Top	15	40
Toe	Top		Top	

T.P. 10.20 92.80<sup>+</sup> 1.57 82.60<sup>v</sup>

92.80<sup>+</sup>

84.17<sup>+</sup>

3+98.5 4<sup>1</sup> Lt to center 18" Pepper Tree3+89 10<sup>3</sup> Rt to S.E. Corner House  
25<sup>4</sup> Lt to SW Corner House } Not Same House3+71.5 3<sup>4</sup> Rt to center 16" Pepper tree3+66.3 25<sup>3</sup> Lt to NW Corner House3+63.5 10<sup>8</sup> Rt NE Corner House } Not Same House3+60.8 4<sup>2</sup> Rt to center 6" Pepper tree.T.P. 0.23 87.94  $\nabla$  5.09 87.71  $\nabla$  N.E. Corner walk87.94  $\nabla$ 3+50  $\nabla$  Sect. Rt to back tangent

87.9	88.1	88.3	88.2	88.0
4.9	4.7	4.5	<u>4.4</u>	<u>4.2</u>
10		105	18	40
		Toe	Top	

3+31.7 9.1 Lt to E 2.2 Conc. Walk

92.80  $\nabla$ 92.80  $\nabla$

T.P. 2.52 78.10<sup>↓</sup> 12.36 75.58<sup>↓</sup>4791.4 Hit back edge of Retaining wall  
to75.27  
12.67  
conc4761.5 42<sup>5</sup> Rt to SE Corner House4758 31<sup>2</sup> Rt to center 24" Palm Tree

4750

704  
708  
702  
9.9  
9.1  
9.7  
50  
40

4746.5 20 Lt to SW Corner House

4730.5 20 Lt to old NW corner of same House

4720.5 21 Lt to NW Corner House

From FB968 you can see a 10' addition to this house

4719 43 Rt to NE Corner House

4700

823  
892  
857  
5.8  
3.7  
4.8  
50  
508794<sup>↓</sup>8794<sup>↓</sup>



5+81 3/6 Rt to SE Corner House

5+50

728	727	7320	753	7320	7356	7502
5.3	5.4	482	4.8	4.70	4.54	3.08
7	1	1		2	7	7
	Gut	cb		walk	walk	TOP wall

5+28.8 0.3 Rt to center P. Pole #JP1910

5+113 0.5 Rt to Deadman

5+10 18 Lt to center MH

6912  
8.98  
18  
INVERT

4+99.14 L Rt Ls to toward Tan.

732	7325	728
44	4.35	4.3
15	0.9	
	TOP	
	cb	
	Dirt Same	

4+76.1 { 10.3 Lt to E. Edge 2.2 walk & its end  
Edge walk

7382  
4.28  
WALK

4+92.1 Edge walk

7382  
4.18  
WALK



Cont'd From Page 65  
Profile on Alternate

Q

66

2+50

85.2

4.2

2+00

84.2

5.1

1+50

85.2

4.2

1+00

86.2

2.6

0+50

87.0

1.6

0+00 = 3+50

T.P.

1329

89.35 ✓

8.20

76.06 ✓

89.35 ✓

8426 ✓

Cont'd From Page 66

67

5700

85.66  
7.93

4750

87.21  
8.38

4400

84.22  
6.17

3752.2 L

91.25  
4.34

3727

91.2  
3.9

T.P. 7.02 95.59<sup>✓</sup> 0.78 88.57<sup>✓</sup>

95.59<sup>✓</sup> T

3700

88.5  
0.8

89.35<sup>✓</sup> T

89.35<sup>✓</sup> T

Cont'd From Page 67

~~2~~

68

5725 = OTOO for Survey in FB2319

8567

992 = check in FB2319

India

ST

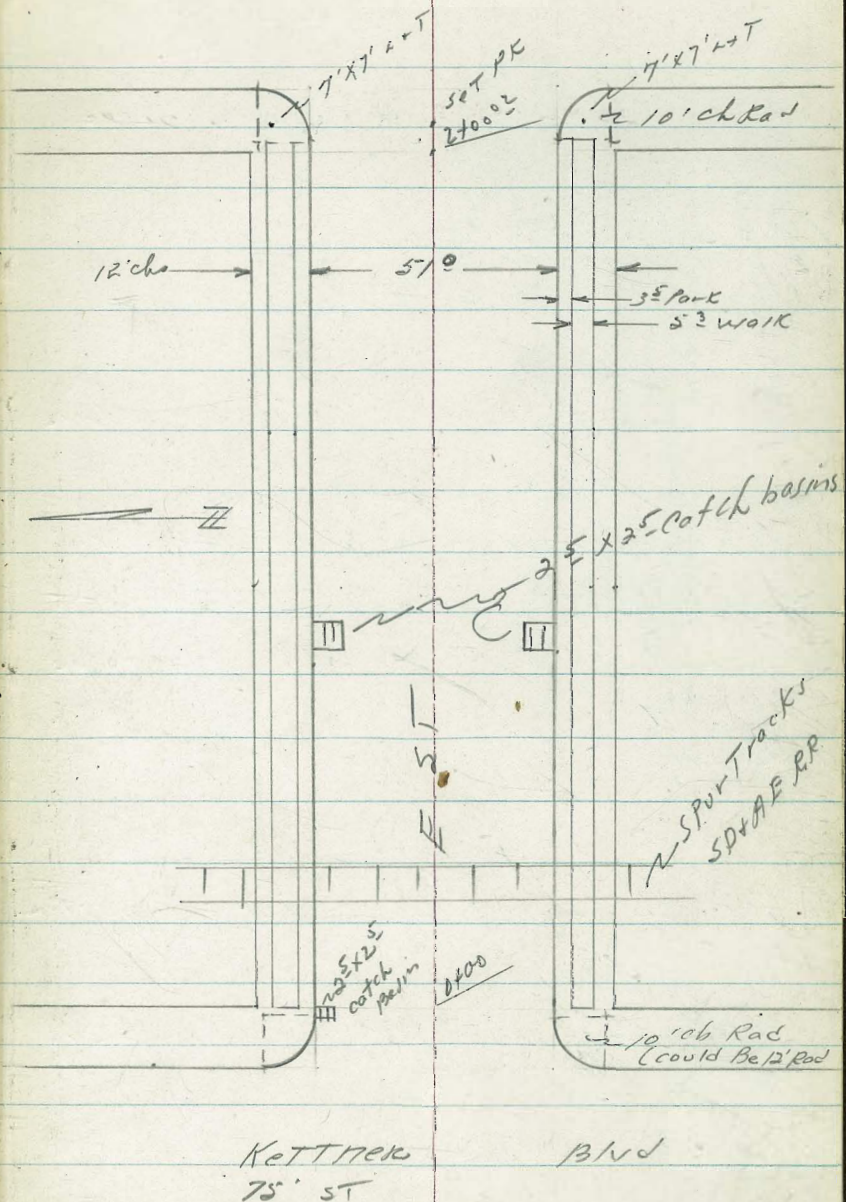
Rough X-sec of 'E' ST  
between Kettner Blvd & India

ST - sky curb out at present

C. Allen - 8-28-15

WFO # 20006 -

See page 70 for Levels.



Kettner  
75' ST

Blvd

7'± curv  
SWLY COR

Levels on E ST between  
Kettner + India St.  
See sketch page 69.

LT = Nly

RT = Sly 70

0+40 - 25<sup>S</sup> LT = end Comm. Drive

0+32

8 <sup>75</sup>	8 <sup>14</sup>	8 <sup>57</sup>	8 <sup>08</sup>	8 <sup>40</sup>
29°	25 <sup>E</sup>	23 <sup>E</sup>	29°	
Sly of Walk	IN Drive LIP	EP.	Nly edge Walk	

0+10 - 25<sup>S</sup> LT = begin Commercial Drive

Note! E.P. edge of Pavement as broken  
out by Pub Works

Broken out by City Pub. Works  
Replaced

25<sup>E</sup> RT = begin Broken Curb to be

0+00 = Fly Line Kettner Blvd

8 <sup>58</sup>	8 <sup>46</sup>	7 <sup>66</sup>	8 <sup>23</sup>	7 <sup>41</sup>	8 <sup>00</sup>	8 <sup>11</sup>
29°	25 <sup>E</sup>	25 <sup>E</sup>	25 <sup>E</sup>	25 <sup>E</sup>	25 <sup>E</sup>	29°
Sly of Walk	T.C.	9 <sup>UT</sup>	9 <sup>UT</sup>	T.C.	Nly of Walk	

0-01 - 25<sup>S</sup> LT = 2" x 2" inlet in gutter

3 <sup>8</sup>	7 <sup>63</sup>
25 <sup>S</sup> Bottom Box	25 <sup>S</sup> grate

0-02 - 25<sup>S</sup> LT + RT = Curb Rad E.C.S

8 <sup>49</sup>	7 <sup>64</sup>	9 <sup>37</sup>	8 <sup>00</sup>
25 <sup>S</sup>	25 <sup>S</sup>	25 <sup>S</sup>	25 <sup>S</sup>
T.C. EC	9 <sup>UT</sup> EC	9 <sup>UT</sup> EC	T.C. EC

0-12 = Fly Curb Line Kettner Blvd

8 <sup>49</sup>	7 <sup>72</sup>	7 <sup>80</sup>	8 <sup>02</sup>	7 <sup>45</sup>	7 <sup>24</sup>	8 <sup>01</sup>
35 <sup>E</sup>	35 <sup>E</sup>	25 <sup>S</sup>	25 <sup>E</sup>	35 <sup>E</sup>	35 <sup>E</sup>	35 <sup>E</sup>
T.C.	9 <sup>UT</sup>	25 <sup>S</sup>	25 <sup>E</sup>	9 <sup>UT</sup>	T.C.	
cb BC	cb BC			cb BC	cb BC	

Direct elev. Rod - True elev

B.M.

898

SWBP India + E STS

Levels Cont  
E.C. ST

LT = Nly

RT = E ST

RT = Nly 71

also begin Drive on RT

1+44-23<sup>5</sup> RT = end Broken curbs  
pave by Pub. works

837

885 818 859

1+41-25<sup>5</sup> LT = begin drive

255  
90T

235 290  
E.P. Nly of walk

1+40-27<sup>4</sup> RT = 2 10" anchor Pole

6" in diameter  
1+23-7<sup>4</sup> RT = 2 Gas Company Vault

867

74  
RINT

Catch Basins - Nly Box is over 4' deep

1+10<sup>5</sup> 25<sup>5</sup> LT + RT = 2<sup>5</sup> x 2<sup>5</sup>

863 850 796  
290 255 255  
Slyot T.C. grate  
Walk

873 794 499 8:35  
255 255 290  
grate box Nly of  
Walk

0+75

868 839  
290 255  
Slyot INDRIVE  
Walk PUTTER

881 817 844  
235 290  
E.P. Nly of walk

0+52<sup>2</sup> = Fly Rail spur

883 888  
290 255  
Sly edge walk Top of Rail  
+ Top cb

870 854 853  
235 290  
EP + Top Rail Nly edge  
Walk

0+47<sup>5</sup> = Nly Rail of Spur to be retrieved

894 889  
290 255  
Slyot Top Rail  
Walk + Top cb

875 859 854  
235 290  
Top Rail Top Rail  
And A.C. Top Rail  
Direct Rod Nly edge



Levels E. ST CONT

LT = Nly

EST

RT = Sly 72

828 860  
85 85  
90T T.C.

2+12.02 = Wly curb line India St

10<sup>00</sup> 965 942 909 893 944 861 850 896  
85 85 355 355 255 255 355 355 355  
S.C. 90T T.C. 90T 90T T.C. T.C.  
BC BC BC BC

2+00.02 =

943 937 886 932 852 895 905  
290 255 255 255 255 290  
Sly of T.C. 90T 90T T.C. Nly of  
Walk Walk

1+70- 255 LT = end drive

end driveway

1+61- 255 RT = begin curb +

920 856 897 825 864 871  
290 255 255 255 290  
Sly of 90T 90T T.C. Nly of  
Walk in drive Walk

Direct Rod

RIDGEVIEW ACRES  
 BENCH MARKS  
 FOR TOPOGRAPHIC WORK

Walker '73  
 Taylor  
 Hamilton  
 Meyer 6-18-57

TP #4		0.00	306.53
TP #3	2.38	306.53	12.72
TP #2	0.04	316.87	11.31
TP #1	0.43	328.14	9.69
	4.59	337.40	

332.81 N.W. SP. DWIGHT & EUCLID

Residence W. side  
 4953 Lantana Dr  
 1" Iron Pipe NE. Lot Cor















84  
17  
67  
48  
115

117  
1590

13748.05  
33457  
13782.58  
141711

150  
10.63

116  
1152  
1268

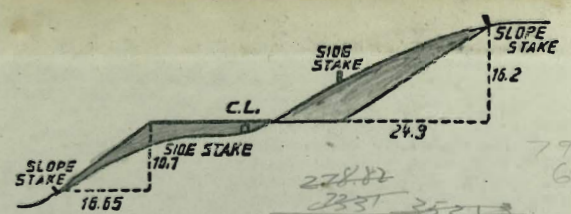
E Headwall 8.43  
Tone 5.64  
Bank 5.76  
W. conc 6.93

150  
190  
230  
170  
3105

150  
928  
1138

935  
700  
700  
1639

+688 = Rim to I.E.



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.  
SLOPE 1 1/4 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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