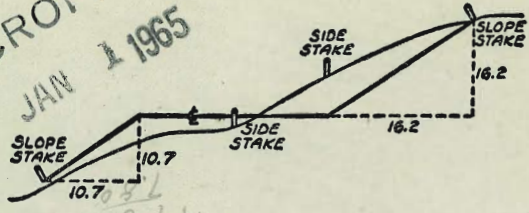


MICROFILMED
 JAN 1 1965

2161



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.

3950
 28221
 28252

Kendall-Grand ✓
NE, NW, SW

Lamont-Grand ✓
SW

Morrell-Stub to S.

Noyes SW ?

Balboa NE ?

Horblend SW ?

DIRECTIONS FOR USE OF TABLES

TABLE No. XIV

IMPROVED TABLES
AND
INFORMATION

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 T may be found
by dividing tangent (for external) or opposite T by
gives tangent (for external).
The distance from a point on the tangent to
the curve is very nearly the square of the tangent
length, divided by twice the radius.

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

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

FOR TANGENTS ADD

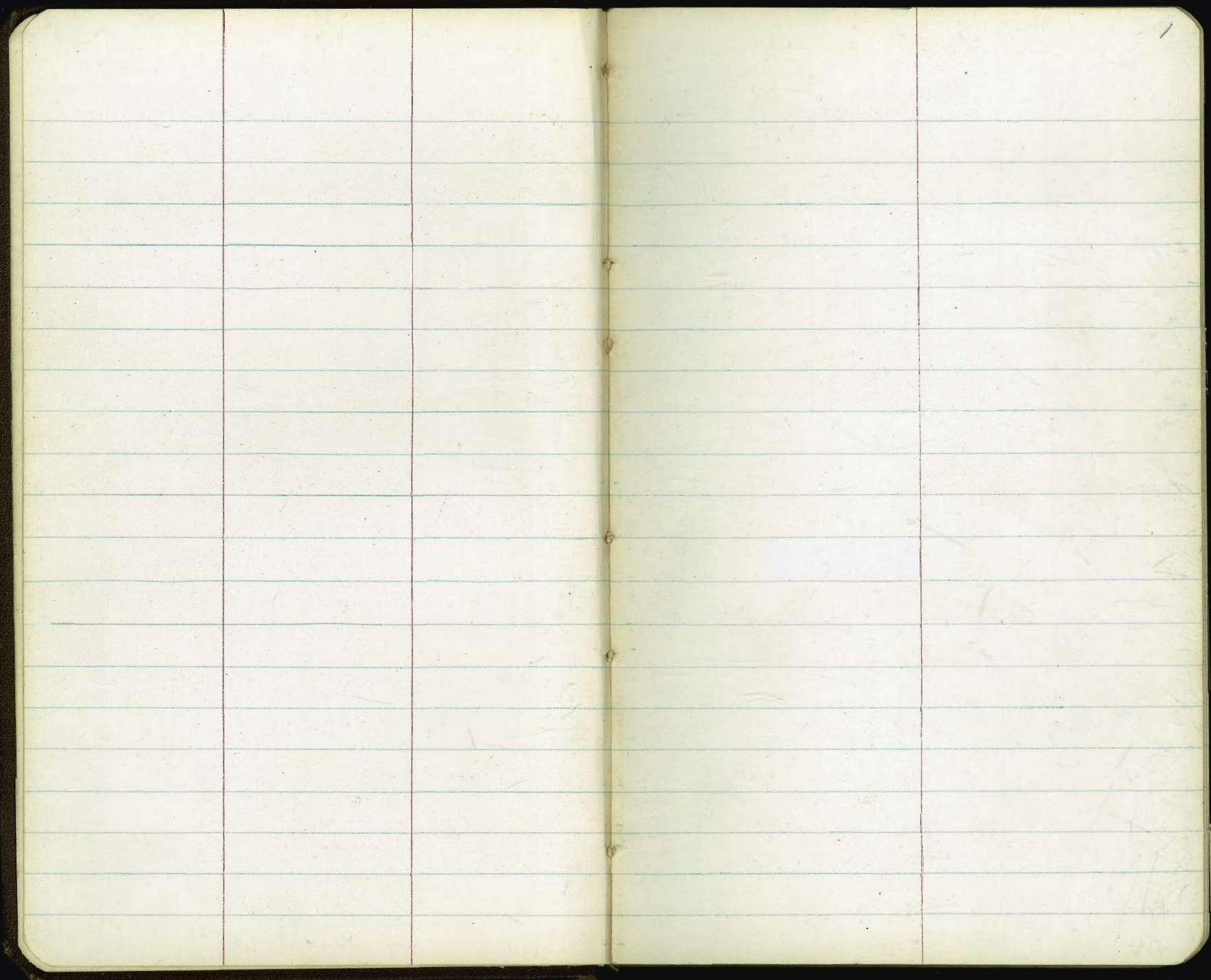
Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.03	.06	.09	.13	.16	.19	.22	.25	.28	.31	.34	.38	.42	.46
15°	.04	.10	.14	.19	.24	.29	.34	.39	.45	.51	.53	.58	.63	.68
20°	.06	.13	.19	.26	.32	.39	.45	.51	.58	.65	.72	.79	.84	.90
25°	.08	.16	.24	.33	.40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

FOR EXTERNALS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.029	.032	.035	.039	.043	.047	.051
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	.036	.046	.056	.065	.074	.083	.093	.106	.120	.127	.135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.771	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.286	.383	.480	.578	.678	.777	.877	.977	1.07	1.18	1.29	1.39
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.985	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

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X-sec - 53d @ Redwood	2
X-sec Alley Blks 206-207 Mission Beach	5
Re-Xsec Wightman 40-to Marlborough chalcadony	11
Storm Drain - Noyes St. to Bay	{ 14-55
" " Grand. via Marrell	{ 45-55
Survey drain - Marrell St	55✓
" " along - Olive to Grand	56✓
curb returns eleva and Grand & Kendall	60
" " S. side Academy & Chalcadony	61
Drain - Diamond St to Lamont Noyes	62



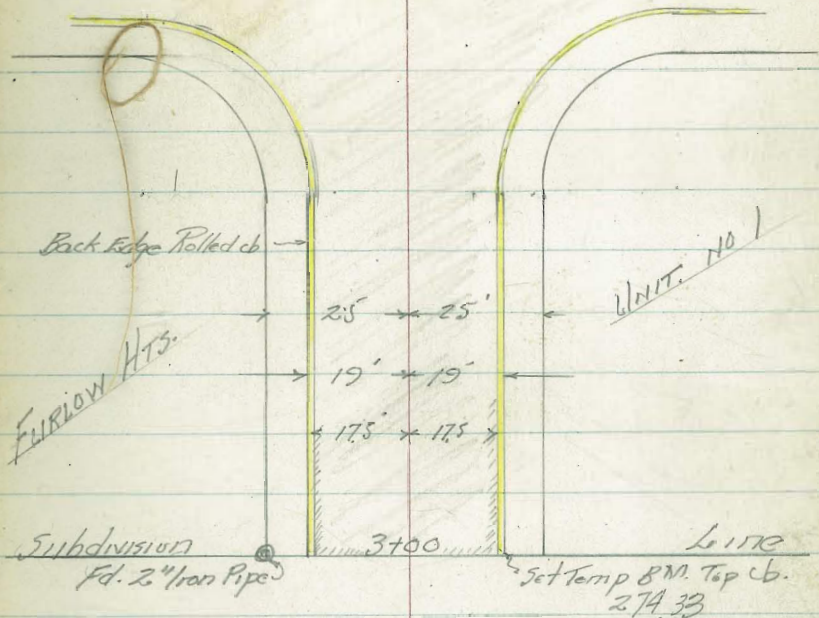
CROSS SECTION - 53RD ST.

Walker
Roe
Huffman
Kellio

NO 25020

REDWOOD

271 2



UNIT NO 1

Subdivision
Fd. 2" Iron Pipe

34.00

Line

Set Temp B.M. Top cb.
274.33

300

INDEXED
RWD
DEC 11 1951



0100

SE Top cb Subline

B.M.
NE B.P. Redwood & 54th

TP	274	277.07	358	274.33
TP	366	277.88	1194	274.22
	281	286.16		283.35

53rd St.

2+00

1+50

1+06 = Elec. Pole

#7852X

257 RA

1+00

0+35

0+30

0+16 = 1/2 East & West Dirt Road

0+00

Lot.

2742
2.9
40

2742
2.9
40

2729
4.2
40

2670
10.1
50

2656
11.5
50

2652
11.9
50

2636
13.5
40

2742
2.9
25

2736
3.5
25

2723
4.8
25

2656
11.5
25

2641
13.0
25

2635
13.6
25

2625
14.6
25

2738
3.3
3

2727
4.4
25

2711
6.0
25

2646
12.5
25

2643
12.8
25

2627
14.4
25

2619
15.2
25

271.07

FF.

3

2730
4.1
25

2718
5.3
25

2699
7.2
25

2636
13.5
25

2623
14.8
25

2617
15.4
25

2610
16.1
25

2719
5.2
50

2706
5.5
50

2681
7.0
50

2622
13.9
50

2617
15.4
50

2613
15.8
50

2601
17.0
40

53rd St - Cross Sections

Lth

L

Rk

4

0.02

Chk Starting B.M.

457 283.37

T.P. 4.15 287.94 115 283.79

T.P. 12.36 284.94 449 272.58

3+82 = B.C. cb Ref.

2723.08	272.81	273.23	223.38	273.63
399	426	384	369	344'
19	175		175	19
Top cb.	Gut.		Gut.	cb

3+00 = Sta. Furrow Hts Unit #1

27308	273.56	274.05	274.08	274.33
318	351	302	299	274
19	175		175	19
Top cb.	Gut.		Gut.	Top cb.

3+50

27356	275.9	274.3	272.6	270.4
15	175	2.8	4.5	7.0
40	25		25	50

277.07

277.07

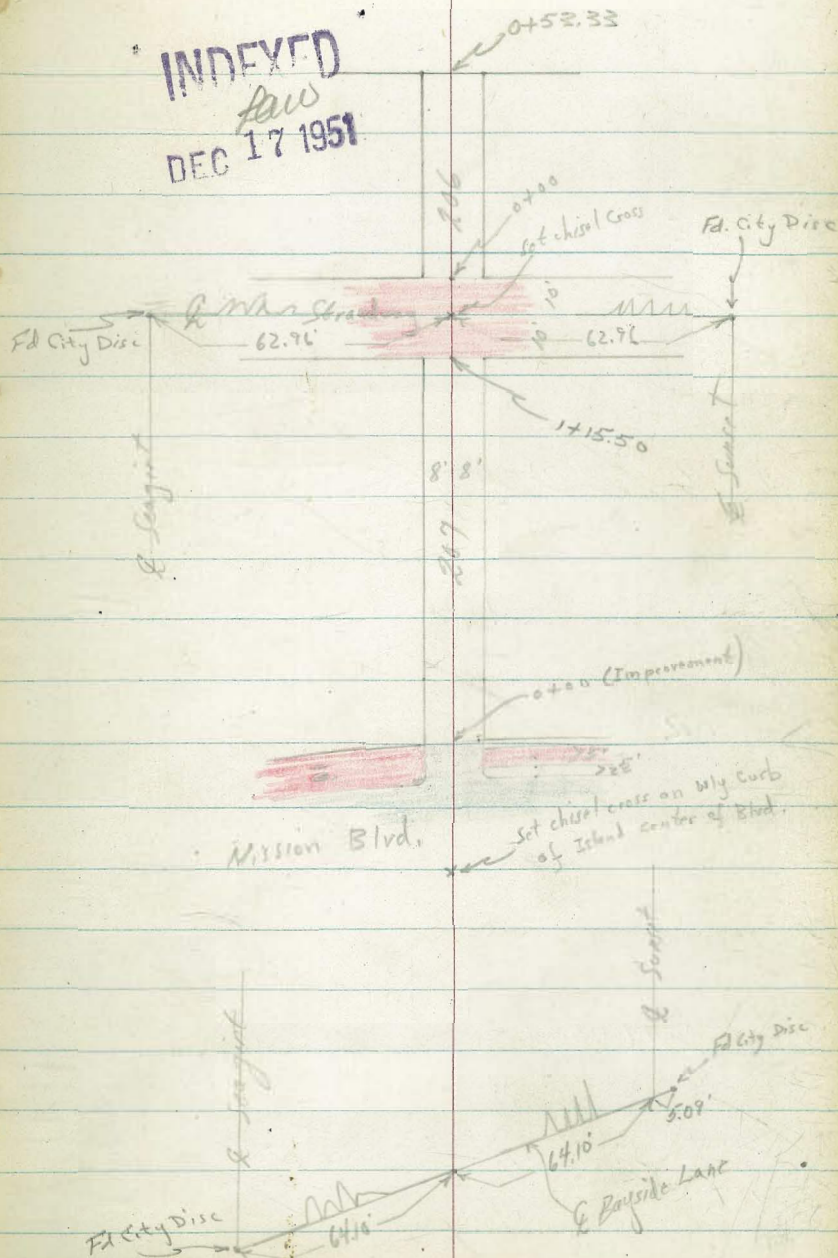
Roberts
Cota
Moore
Fullin
12-14-51
WB 32012

X-Section Alleys Blocks
206 & 207 Mission Beach

T.P. 1250

INDEXED
Law
DEC 17 1951

5



Contd From Page 3

Levels Alley 206

Lt

R

R

C

0+26 8' Lt Begin Conc Apron (Garage on L)

0+22 8' Lt End Bldg

0+19.5 7.5' Lt to Deadman

0+10

0+04 8' Lt Begin Bldg

0+01 7.5' Lt to Center P. Pole # 3836

0+00.2 7.93' Rt Begin House

Edge Pav.

0+00 Wly Line Strandway

R Strandway

TS 5.85 10.59A 5.03 4.74

BM 2.69 7.77 7.08 SWBP San. Jose & Seawall

5.57
4.95
8
conc

6.1
4.5
8
6.2
4.4
4.1
8
6.5

18.1
5.81
4.78
5.0
5.0
5.0
5.69
4.90
8
4.95
4.90
8
5.78
4.81
5.0

5.58
5.01
5.0
5.40
5.19
5.54
5.05
5.0

10.59A

Cont'd From Page 6.

27.

Q

Rt

7

TP 5.26 5.64 π 10.21 0.38

0+56.6 Q Hit NE Cor Apt over Garage

613
4.46
4.6
8
Garage Opening
conc.

{ 78' Rt to Fence
0+53.6 Q Hit Nly Cor of Conc Apron
82' Lt End Bldg

500
4.57
8
conc

5.98

0+53.33 Dead End

589

5.89

5.79

{ 78' Rt Begin Board Fence
0+40.2 { 72' Rt End Bldg

4.7
8

4.7

4.8
8

585

5.99

5.99

4.8
8

4.6

4.6
8

0+39.9 82' Lt End Apron & Car Garage

583

4.76
8
conc

0+35.8 102' Lt Q Garage Opening

5.83
4.76
10
floor

10.59 π

10.59 π

Contd From Page 7

Levels Alley 207

0+42^E 7²' Lt & Conc Landing 4¹' wide

2.97
2.67
7²
conc

0+41 7¹' Lt to Center P. Pole # PA736

0+39 7²' Lt End Apron

2.70
2.94
8⁵
Floor
3.01
7²
conc

0+31 7¹' Lt Begin Conc Apron

2.61
3.08
8²
Floor
3.18
7²
conc

0+16^E 6²' Lt & Conc Steps 4' wide

3.05
2.59
8²
Floor
2.65
2.99
7²
conc
Top
2.07
3.57
6²
conc
Top
Bottom Step

0+00.3 8²' Lt (on line of Mission Blvd) Begin Bldg

0+00 Edge Paving

Walk on Rt has moved beyond curb line

Drain in gutter 24" of E Full (High Tide)

Why Curb Line Mission Blvd

5.44
8²
cb
0.16
5.55
8²
gutt
0.09
0.06
5.38
6.13
-0.47
6.11
11³
gutt
0.22
5.42
8²
gutt
0.23
5.41
8²
cb
-0.30
5.94
50
gutt
0.22
5.45
50
cb

5.64T

5.64T

0+90² 72' Lt End Walk

+4.81
5.83
72
conc

0+67 72' Lt Begin Conc Walk Parallel to Alley

+4.75
5.87
72
conc

0+65E 72' Lt @ 3' Conc Walk

+4.35
6.29
72
conc

0+63 85' Lt End Garage

+3.2
7.4
85
Dirt

T.P. 759 10.64A 2.59 3.05

10.64A

0+50

3.0
2.6
8
2.8
2.7
8
2.9
2.1
25
3.5

0+44E 84' Lt Begin Double Garage

2.3
84
Dirt

5.64A

5.64A

Contd From Page 9.

Lt Rt 10

check 2.79 7.09 = 7.08

T.P. 2.82 9.88 358 7.06

1+15.50 Ely Pav. Edge
Line Standway

489 5.12 5.36 5.09 5.00
50 8 8 50

1+137 8' Rt End Bldg

1+10 136 Lt End Opening Garage

5.0
136
Dirt
5.3 4.9 5.4
8 8

1+00

0+94 8' Rt Begin Bldg

5.5

0+91 136 Lt Begin Opening of Garage

5.1
136
Dirt

10.64

10.64

RE-CROSS SECTION Roadway

WIGHTMAN ST.

Walker
Huffman from 40th to Marlborough
Bishop
2-19-52

NO 31587

Sec on Pav.

2+99.66 = N.W. Central FB 1847-53

2+50

42.7 43.0 43.0 42.8 42.6
26 13 13 24.5

2+00

INDEXED

Law

FEB 20 1952

42.6 43.1 43.1 42.7 42.4
26 13 13 24.5
Canc. Gut.

1+60

42.9 42.7 43.0 43.0 42.6 42.2 42.6
40 26 13 13 26 40

1+50

43.4 42.8 43.0 43.0 42.5 42.2 42.7
40 26 13 13 24.5

40
1+39.8 = N.W. Alley

43.4 42.6 42.9 42.9 42.4 42.2 42.6
40 26 13 13 24.5 40

1+00

42.2 42.6 42.7 42.1 42.2
26 13 13 24.5
Gut.

0+50

42.0 42.0 42.4 42.5 41.9 41.9
26 26 13 13 24.5
Canc. Gut.

Sec. on Pav.

0+00 = E. line 40th in FB 1847-53

Direct Elev. Rod used

343.67

B.M. N.W. Wightman to Central F.B. 1847-53

Ylightman Set. Central 8 415t

2 + 99.92 = 14.6. 415t Sec on Pur. 177 FB1847 - 55

2 + 75

336.4 36.2 36.2 36.0 35.7
24.5 13 13 13 24.5

2 + 35

337.2 37.4 37.5 37.1 36.5
24.5 13 13 13 24.5

TP

337.77

1 + 25

380 377 382 383 385 381 373
24.5 21 19 13 13 24.5

1 + 60

394.3 387 391 389 384 378 384
40 Per 26 13 13 26 40

1 + 50

3918 388 392 391 387 380 379
40 Per 26 13 13 26 40

1 + 40 = 14.6. All

339.45
40 Per

39.0 39.5 39.6 39.0 382 379
26 13 13 26 40

1 + 00

340.68
26
chk cb.

339.9 40.3 40.6 40.6 40.1 339.5
26 27 13 13 26

0 + 60

40.9 41.3 41.5 41.6 41.2 40.4
26 27 13 13 26

0 + 35

341.6 42.0 42.4 42.4 41.9 41.3
26 22 13 13 26

8

Sec. on Pur.

0 + 00 = Elmer Central FB1847-54

Lt.

d

FF

12

LOCATION PROPOSED STORM DRAIN

From Mission Bay

To CHALCEDONY ST.

Walker

Page

Huffman

Sketch 2-22-52

NO. 20822

Via

OLNEY, GRAND, & NOYES STS.

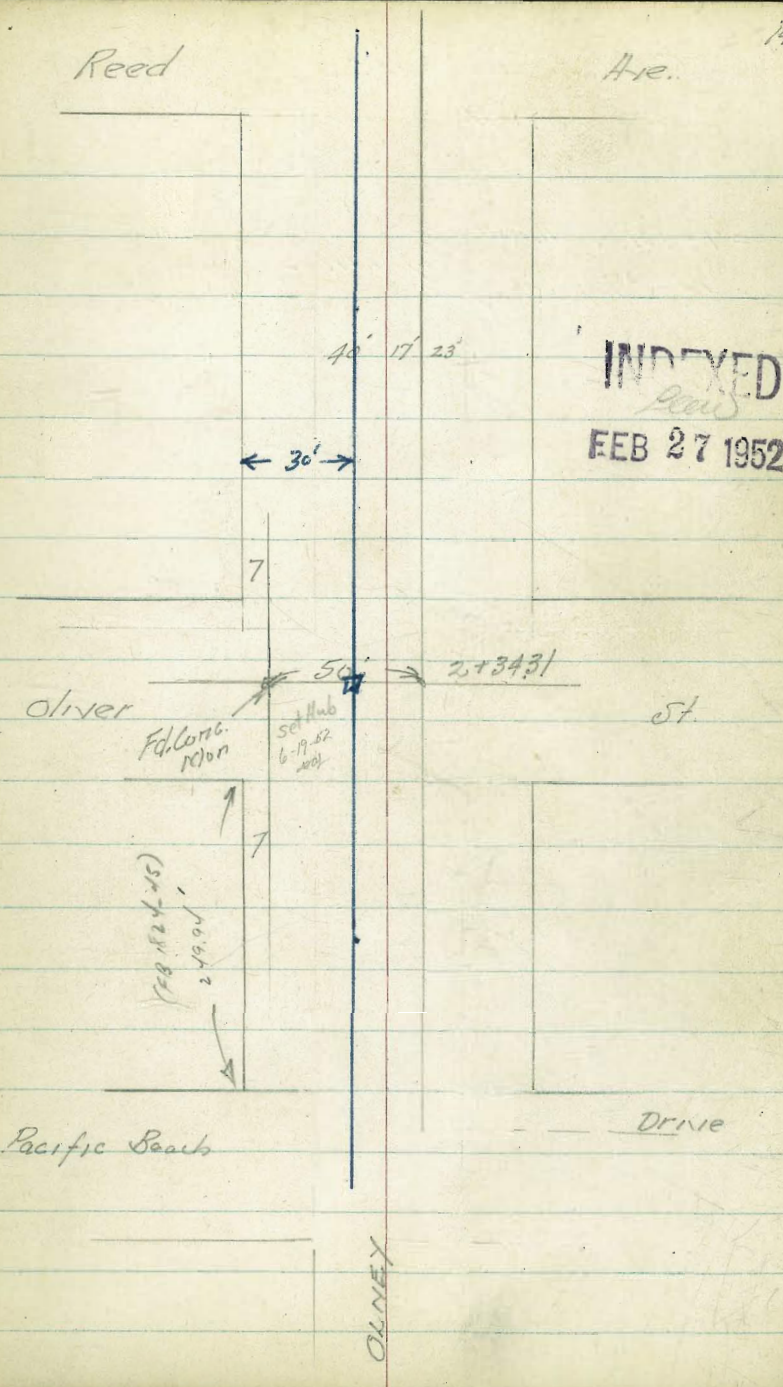
morrell & Diamond

Levels P-24

Reed

Ave.

14



INDICED
FEB 27 1952

Oliver

Fol. Cont.
10/07

Set Hub
6-19-52

(F.B. 1824-25)
249.95

213431

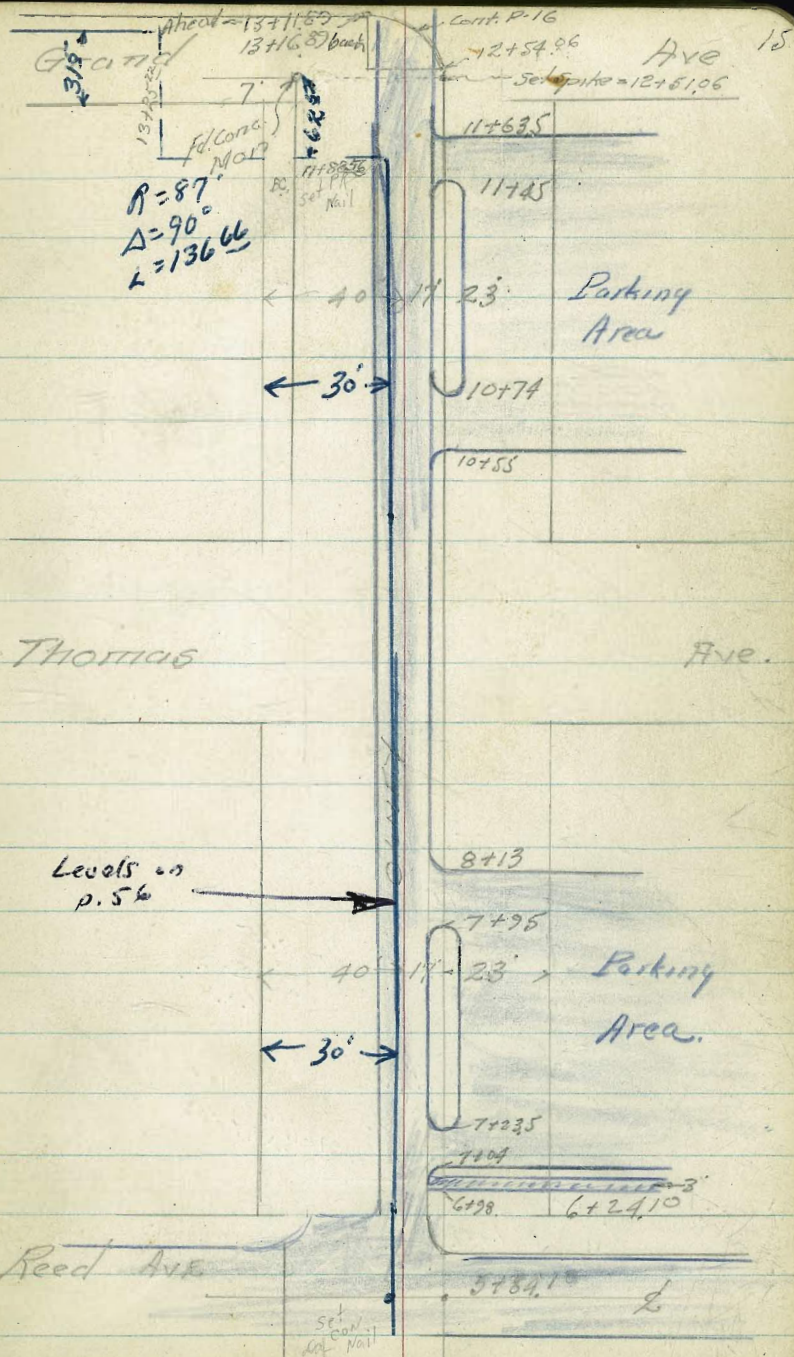
Pacific Beach

DRIVE

OLNEY

OLNEY, Noyes, Grand Ave
Proposed Drain

= 13+11.89 ahead } Equation
13+16.89 back }



Proposed Drain

17

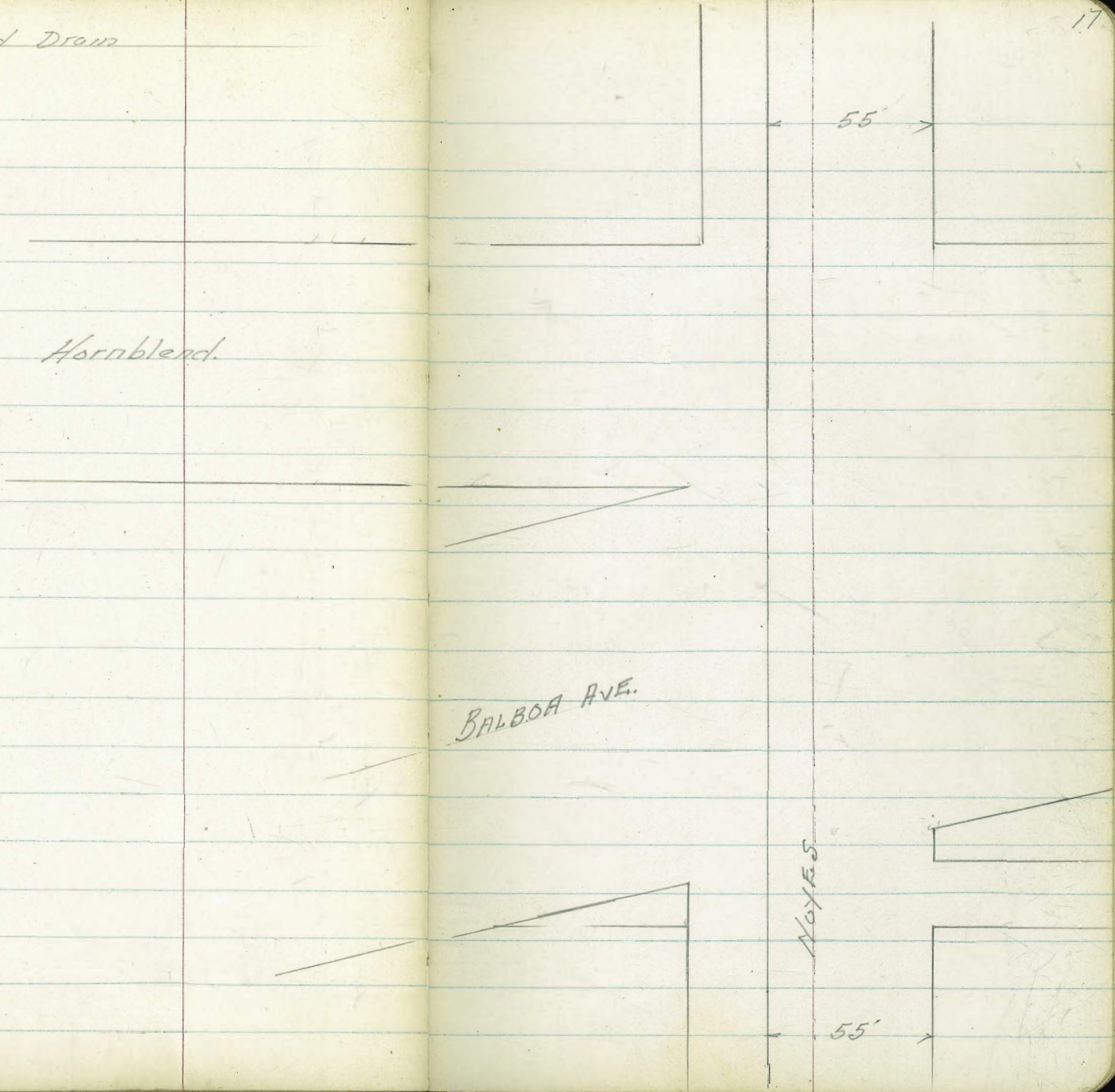
Asphalt

BALBOA AVE.

NOTES

55'

55'



Proposed Drain

19

E. Proposed
Drain →

Felspar.

St.

25' × 55' →

NOYES ST.

Garnet

26 + 2140
Δ 0°02' Lt.

Emerald

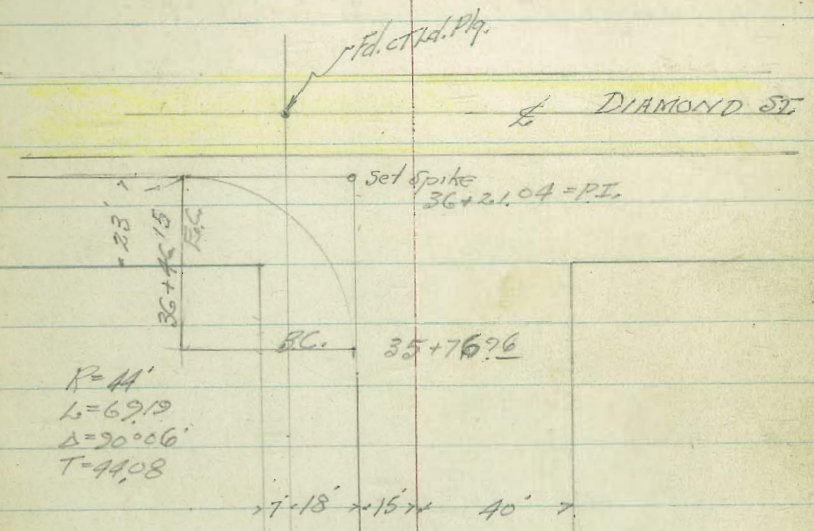
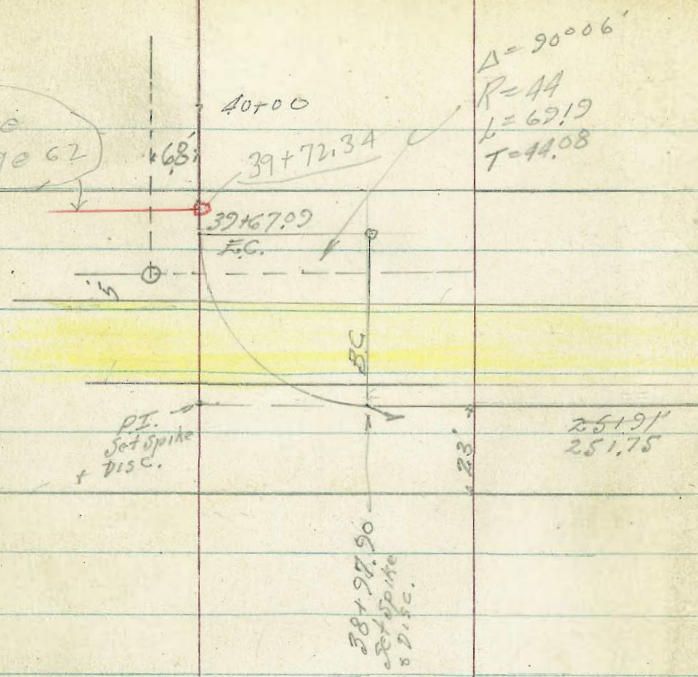
25'

55'

NOV 17

Felspar

See page 62



NOV 5

25

43100

42 + 15.54
Pot.

40100

37+80

Noyes St. Drain

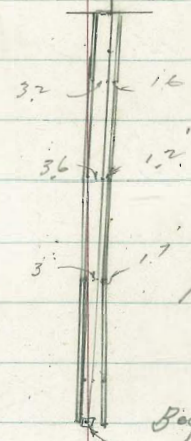
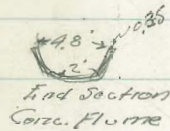
45+96.6 = Beg. Exist 48" Conc. Culvert.

45+75 Top Flume 1.6 Rt 3.6 Lt

45+50 Top Flume = 1.2 Rt 3.6 Lt

45+25 Top Flume = 1.7 Rt 3 Lt.

44+91 = Δ Rt. 2° 33' Set Hub



Beg. 4" Conc. Flume
44+91 = Δ 2° 33' Rt.

LEVELS FOR DRAIN IN

Walker Olney, Grand, Noyes
Pope
Huffman And Diamond Sts.
Bishop

Location P-14-22
2-25-52

Lt. S. Rt.

-0.49
-1.49
7.46
16.2
Rim
M.H.

0+68 = Int. Sewer

0+50

-1.7 -2.5 -2.3 -2.3
8.7 8.5 9.3 9.3
10 10 20
Burr Burr
Stough Stough

0+00

-1.7 -1.64 -4.0
8.7 8.61 11.0
10 0.7 5
4.06 Stough

0-10

-1.5 -1.7 -4.2 -4.2
8.5 8.7 11.2 11.2
10 3 10
Stough Stough

TP #5 Rock	4.29	6.27	11.52	2.68 ✓
TP #4 cb	9.24	14.20 ✓	12.86	13.26 ✓
TP #3 Rock on Nail in Road	0.40	26.82 ✓	12.32	26.42 ✓
TP #2 on Rock in Road	0.74	38.74 ✓	12.25	38.00 ✓
TP #1	0.38	50.35 ✓	13.14	49.97 ✓
	1.09	63.11 ✓		62.02

6.97 ✓

B.M.
NW. B.P. Garnet & Noyes St. City Datum

No. of Drain

Lt.

Σ

197

3+52

5.3
1.7
20

20
50
10

-1.4
8.4
5

-1.4
8.4

8.5
8.5
10

~~3+52~~

~~8.3
10~~

~~8.4~~

~~8.4
10~~

3+00

-1.8
8.8
10

-2.3
9.3

-2.5
9.5
10

2+34.31 = 2 Oliver St.

-1.8
8.8
10

-1.4
8.8

-1.7
8.7
10

2+00

-1.8
8.8
10

-1.7
8.7

-1.7
8.7
10

1+50

-2.4
9.4
10

-2.7
9.7

-2.9
9.9
10

1+00

-2.1
9.1
10

-2.6
9.6
6.97 ✓

-3.0
10.0
10

Noyes St Drain

Lt.

Rt.

Rt.

26

5+45 = Int. West Side P.C. Drive W/way

12.2	13.0	12.43	12.50
4.3	3.5	4.12	4.05
10	3	Westside Dr	10.7
			East edge Dr

5+00

10.8	10.4	9.6	11.2	9.8	9.33
5.7	5.7	6.9	6.9	5.3	6.8
10	6	5	1	10	7.22
					19
					West P.C. Side Drive

4+50

8.4	8.0	7.4	8.4	7.8
8.1	8.6	9.1	8.2	8.8
10	2		2	10

4+12 = Int. E. Water Meter Box

7.01
2.84
8.7
7.9

4+00

7.2	7.2	6.6
2.4	2.4	10.0
10		10

3+90

6.8	6.8	0.4	0.4
2.8	2.7	16.2	16.2
10		13	20

TR#6 9.78 16.55 0.20 6.77
6.97

16.55

Hoyas St. Drain

Lt. Rt. 27

TP #7 229 2544[↓] 110 1845[↓]

7+04 = Int Drive A.C.

14.79 15.19 14.78 13.95
 1.76 1.36 1.77 2.60
 13 5
 Pav. Pav.

6+98 = Int 3' A.C. Walk.

6+96.5 = Int. Water Valve

Look Like
 2" 2.08" Red.
 Top Valve
 Storm
 0

15.24 14.80 14.06
 1.31 1.75 2.49
 5
 Pav. Pav.

6+50

14.05 14.51 14.2 13.6
 2.50 2.04 2.4 3.0
 13 5
 Edge Pav. Pav.

5+97 = Int. N edge Pav. on Rt.

13.43 13.43 13.60 12.60 12.99 12.85
 3.12 3.12 2.95 2.95 3.56 3.70
 17 10 5 5 18 23
 Pav. Pav. Pav. Pav. Pav. Pav.

5+84.10 = E. Reed St.

13.23 13.37 13.25 12.68 12.39
 3.32 3.18 3.20 3.07 4.16
 16 5 Pav. 18 Pav.
 Pav. Pav. Pav. Pav.

5+72 = Int. S. Edge Pav. on Rt.

16.55

13.12 13.21 13.20 12.03 12.81
 3.43 3.34 3.25 3.52 3.74
 16 5 Pav. 18 23
 Valley Pav. Pav. Pav.
 Gut. Pav.

16.55[↓]

Noyes St. - Dr 117

				1985	1985	1988	1985	RT	28
9+50				5.99 14 Pov.	5.59 5 Pov.	6.6	7.9 10 13 down		
9+07	17.7' RT	9" Acacia		18.74	18.77	18.2	16.9		
9+00				7.10 13 Pov.	6.67 5 Pov.	7.2	8.5 10 in down		
8+99	5.6' RT	- 3" Locust Tree							
8+80	5.5' RT	- 1 1/2" Tree							
8+69	6.3' RT	- 1" Oleander Tree							
8+52	6.1' RT	- 2" Gum Tree		17.2	17.60	17.74	17.1		
8+50				8.32 14 Pov.	7.84 5 Pov.	7.7 3	8.3	9.3 10 in down	
8+31	- Water Valve	9.5' Lt. 3" Tree (Fruit) 5.5' RT.							
8+13	= Int. N edge	R.C. DINE		16.35 20.9 13	16.54 8.90 5 Pov.	16.24 9.20	15.36 10.68 10		
7+95	= Int 5' R	to DINE		14.85 9.39 14	14.30 9.14 5 Pov.	15.52 9.62	15.32 10.12 6 Pov.	15.04 10.40 10 Pov.	
7+57.7	= Fire Alg	4.9' RT	1' Lt - 2" Tree						
7+23.5	= Int. 5' Pav. R			15.07 10.37 13 Pov.	15.37 10.07 5 Pov.	15.09 10.35	14.62 10.82 6	14.29 11.15 10	

25.44 ✓

Noyes St. Drain

TP#8 890 3432[✓] 002 2542[✓]

Int.
11+63.5 = Head Pav. Parking Area

11+45 = Int 5' Pav. R

11+10.5 = 2' Fire Hydr. 4.8 Rt.

11+00

11+00

10+86 0.2' Int 3" Cypress

10+74 = Int 5' Pav. R To Parking Area

10+55 = Int Parking Area A.C. Paving

(10+30) 0.3' Int = Water Valve

10+37 5.5' Rt = 1" Fruit Tree

10+00

25.44

Lt.

Rt.

Rt.

29

2450	2490	2447	2387	
0.94	0.54	0.97	1.57	
14	10.5	Pav.	10	Pav.
2397	2429	2393	2337	2317
1.47	1.15	1.51	2.07	2.27
15	5	Pav.	7	10
Pav.	Pav.		Pav.	Pav.
2284	2339	2226	2201	2196
2.60	2.05	2.8	3.43	3.48
14	10		7	10
Pav.	Pav.		Edge	Pav.
			Pav.	
2220	2262	2203	2144	2122
3.24	2.82	3.41	4.00	4.22
16	5	Pav.	7	10
Pav.	Pav.		Pav.	Pav.
2182	2214	2179	2079	
3.62	3.30	3.65	4.65	
15	5		10	
			Pav.	
2060	2102	202	193	
4.84	4.42	5.2	6.1	
15	5		10	
	Pav.		Pav.	
		25.44 [✓]		

Noyes St - Drain

13+11.85 Ahead

13+16.89 } Equation
Back

Radial Sec

13+06 = Int. West edge Pav with 40'R

12+91 Approx % Pav. Sec. Radial

Sec. Radial

12+74 = Int. 40'R & Pav. in way

12+54.06 = B.C. 4'

12+00

11+82.5 0.2' H. = Water Valve

11+82 6'RH = Elec. Pole # 61411

11+81 6.2'RH = 2" Tree

11+66 = South edge 3' A.C. Walk

34.32

14

5.285
5.8
10

28.12
6.2
10

27.56
6.76
10
Pav.

27.13
7.19
10
Pav.

26.76
7.56
16
Pav.

25.45
8.87
H
Pav.

27.40
6.92
5
Pav.

25.97
8.35
Pav.
Rt.

25.04
9.28
5

14

28.87
5.45
09
Hub.

28.33
5.99

27.67
6.65
Pav.

27.58
6.74

27.06
7.26
on Hub

25.8
8.5

24.70
9.62
34.32

Rt 30

29.2
5.1
10

28.55
5.77
10

28.09
6.23
10
Pav.

27.4
6.9
10
Lawn

26.5
7.8
10
in Lawn

24.8
9.5
10

23.68
10.64
10

4.4
Metal
Box

Notes of Drain

16750

16700

15750

15700

14750

14700

13750

Lt.

Rt.

Rt.

31

1.330
1.3

1.8
32.5

1.8
32.5

1.8
32.5

2.2
32.1

2.2
32.1

2.2
32.1

3.1
31.2

3.1
31.3

3.1
31.4

4.2
30.1

4.2
30.1

4.0
30.3

5.1
29.2

5.1
29.2

5.0
29.3

5.0
29.3

5.0
29.3

5.0
29.3

34.321

Noyes St. Drain

18+87.35 E of curve

18+74

18+41.54 = B.C. Pt.

18+27.04 = Δ 30° Rt.

18+00

17+50

TP*9 907 42.52[↓] 0.87 33.45[↓]

17+00

34.32

34.1

3.4

36.7

5.8

8

35.98

6.84

35.46

7.06

on Hub

34.7

7.8

34.0

8.5

~~42.52~~

33.6

0.7

34.32

33.1
1.2
10

Noyes St. Drain

Lt.

Rt.

22709

468
6.8

22700

463
7.3

21750

446
9.0

21700

438
9.8

+83 7.8' H Elec. Pole #P-4428

+58 = 7.4' H - Pole Anchor

20750

440
9.6

20700

434
10.2

TP#10 11.36 53.56^v 0.32 42.20^v

53.56

0.52

chk Nail on TP#2 P-24

4.54

38.00
37.98

40.29

19733.17 = E.C.

42.52

2.23

OP
Hub.
42.52' T

Noyes St. Drain

25400

+50

+025 4.2' Rt. Gus Valve
6.5' = End Board Fence

+025 5.5' Lt & Elec Pole #4474

24100

+75 4.7' Lt. = Pole Anchor
3'

+64.5 6.1' Lt = Board Fence

+50

+20 4.7' Lt. = End Board Fence

23100 Pole

22+72.5 7.3' Lt. 4452

22+75.5 5.2' Lt 3' Board Fence

77 #11 1032 63.72 ↓ 016 53.46 ↓

22+50

22+24

53.56

58.7

55.0

58.5

52

52.8

5.9

56.2

7.5

54.5

92

63.72

52.0

16

51.0

2.6

53.56

Noyes St. Drain

30 + 00			69.2	68.9	66.6	67.6
			+1.2	+0.9	1.4	0.4
			10.	5		10
29 + 58	Opp. cb on lt		0.59	1.30	2.4	1.7
			2.46	Get.		10
			cb	2.46		
				Get		
29 + 18 ±	opposite Felspar Projection cb on lt		66.32	65.86	64.6	65.4
			1.62	2.15	3.4	2.6
			cb	2.46		10
			2.46	Get		
+13.5 = Elec Pole #2598	5.9' Lt		67.3	66.8	64.1	64.8
29 + 00			0.7	1.2	3.7	3.2
			10	5		10
28 + 50			65.2	64.3	63.5	64.0
			2.8	3.7	4.5	4.0
			10	3		10
28 + 00			64.0	63.6	62.9	63.2
			4.0	4.4	5.1	4.8
			10	4		10
+51.5 Pole #4500	6.9' Lt		63.1	62.9	61.9	62.6
27 + 50			4.9	5.1	6.1	5.4
			10	5		10
					68.01	

Noxes St. Drain

TP#14 1192 89.44[✓] 144 77.52[✓]

33+08 - N cb

32+68 - cb Line Emerald

+51 69' Lt. #559547-H
Elec Tel

32+50

32+00

31+50

+03 10.6
69' Lt Elec Pole #4624

31+06 69' Lt. Elec Pole #559546-H
Tel

TR#13 1215 78.96[✓] 120 66.81[✓]

30+50

6801
10

Lt Lt Rt 37

77.36
160 250
cb 2.5
2.5
Rt 76.5
3.2 75.0
5.0
10 74.0

75.98
298 254
cb 4.0
2.4
Gut 74.0
4.9 74.0
5.0
10

75.5 75.5 77.5
3.5 3.5 5.5
10 8 4 6.1 72.2
5.4
10 73.5

74.0 74.0 72.4
5.0 5.0 6.6
10 8 5 7.6 71.4
6.6
10 74.4

71.5 71.5 70.2
7.4 7.5 8.8
10 6 3 8.8 70.2
8.0
10 71.0

70.8 70.8 69.5
8.2 8.2 9.5
10 5 3 9.5 69.5
6.9
10 69.1

69.7 69.5 68.0
+1.7 +1.5 0.0
10 5.0 3 68.0 78.96[✓]
68.0 0.0 68.0
10 10 10 68.5
+0.5

Noyes St. Drain

on Disc. & Diamond & W.L. Noyes

TR#16 747 95.06 1.85 87.59[✓]

36+05 2' RT = 2 Elec. Pole # 4698

35+76.26 = BC. Lt.

35+00

771 20" Elderberry Tree 1' Lt.

34+50 6.7' Lt. Elec 500191-H

34+00

33+50

82.44[✓]

Lt. L Rt. 38

88.0 88.1 88.0 86.4

1.4 1.3 1.4 3.0
10 6 11

86.9 85.8 85.2 85.2

2.5 3.63 4.2 4.1
10 on Hub 5 10

83.0 82.9 82.0 82.1

6.4 6.5 7.4 7.3
10 6 10

81.2 81.4 80.3

7.7 8.0 9.1
10 10

80.2 79.2 78.2 78.0

9.1 9.7 10.7 11.4
10 3 10

78.2 78.1 76.1 76.0

10.7 11.3 13.3 13.4
10 7 10

82.44[✓] 82.44[✓] Roadway

~~78.06~~

Noyes St. Drain

39+45 = Int. North edge Pav

Radial Sec.

37+23.1 = Int. South edge Conc. Pav

+ 37' ahead on semi tax 2' cow drive
 + 11' ahead on semi tax 3' cow walk

38+97.90 = B.C. Pt

38+86 3/4 2' cow drive
 38+60 3' cow walk
 38+27 3/4 2' cow drive

38+00

37+27

37+00

36+46.15 = E.C.

Lt.		Rt.	
90.66		90.43	
140		163	
10		10	
Pav.		Pav.	
897		8986	
5.4		5.20	
10		10	
Pav.		Pav.	
897		897	
5.35		5.8	
3		3	
cb		Pav.	
898		898	
6.25		6.08	
3		3	
Top cb		Pav.	
898		898	
6.85		7.3	
3		3	
Top cb		cut	
898		898	
6.2		7.2	
10		4	
898		898	
7.0		7.4	
10		3	
828		828	
25.06		7.50	
		7	
		Pav.	

Noyes St. Drain

41+50

+20 = 1st. Hsg Wire Fence Rtd to S.

41+00

40+50

40+00

39+80 = Beg Fence 10' Lt.

TP*17

12.14

102.96

4.74

90.32

M.H. Location Sketch P-21

39+67.09 ES.

95.06

95.4	At.	93.4	94.2	90.2	Rt.
7.1	7.6	9.1	8.3	7.2	95.2
10	5	2		3	10
93.6	93.3	92.1	94.2	94.2	94.2
8.9	9.2	9.8	8.2	8.2	8.2
10	3		5	5	10
92.8	92.8	91.8	92.2	92.2	93.4
9.7	9.7	10.7	9.3	9.3	9.1
10	3		3	3	10
92.1	92.1	91.5	92.2	92.2	92.2
10.4	10.4	11.0	10.2	10.2	10.3
10	3		3	3	10
97					
fence					
			102.46		
85.2	90.94				
9.75	4.62				
Invert	Rim				
	M.H.				
	P-21				
91.2	91.2	90.32	91.6	91.6	
3.2	3.2	4.74	3.5	3.5	
		on Hub	5	10	
		95.06			

Noyes St. Drain

41+56 = Int 1 1/4" Galv. Water Pipe

44+00

43+81 = Int 3/4" Water Pipe

43+48 = Beg. Row Fruit Trees 8.5 ft.

6.7 Wide

43+34.6 = N. end Driveway Bridge

43+29.3 = South edge Wood Bridge, Driveway

TP #18 9.30 110.02 174 100.72

(42+21.3 = End 8' High Lath House 8' RL)
(42+88.5 = Beg. 9' High Lath House 7.3 RL)

42+86.5 = Beg. Rubble Flume

42+15.54 = P.O.T.

42+00

102.46

			103.24		
			6.08	7.3	102.1
			in Pipe	0	
	105.0	103.0	100.0	102.1	102.1
	7.0	7.0	9.1	7.3	7.3
	10	4		3	10
			100.0		
			8.21	9.1	
			0		
			Top 3/4"		
	100.0	99.2	99.2	100.0	101.4
	9.2	10.9	10.8	9.2	8.6
	1.4	1.7		3	3
					Deck
					Bridge
			110.02		
	99.2	97.2	97.0	97.0	99.5
	2.55	2.5	5.5	5.5	2.90
	2.2	1.7		1.8	2.2
	Top Flume				Top Flume
			95.0		
			7.45		
			on 4.6		
	97.7	96.5	94.9	96.0	96.7
	5.4	5.9	7.6	5.7	5.8
	10	5		4	10
			182.46		

Naves of Dr 117

TR#19 1.94 98.84 13.12 96.90
(15+85)

45+96.6 = Bay, 48" Conc. Pipe

45+95.6 = Int 3/4" Water Pipe

45+85 5.8' RA = 3" Avocado

45+83 = End Row Fruit Trees 12' Lt.

45+70 6.3' RA = 4" Avocado

45+50

45+39 7.3' RA = 3" Avocado Tree

45+00 2.5' RA = Top Flume 2.8' Lt = Top Flume Row

44+91 = A RA 2.0' 3.3' 8.8' Lt = Fruit Trees

44+70 = Int Pipe

110.02

Lt.

Rt.

Rt.

42

107.92

104.96

107.85

2.10
Top

5.96

2.17
Top

109.02

104.13

108.22

100

5.89

180

0
Hd Wall

Invert

48" Conc. Pipe

Top 3/4" Pipe

107.09

104.03

107.09

2.93

5.99

2.93

3.6

Flowl

1.2

Top

Top

105.9

103.81

103.78

105.47

103.45

4.6
1.6
Top Flume

6.21
0.5

6.24
0.1
Hub

4.53
3.0
Top Flume

6.57
0
Flowl

107.9

104.9

104.81

102.7

105.0

105.0

5.1
70

5.1
3

5.61
47
34

7.3

5.0
4

5.0
10

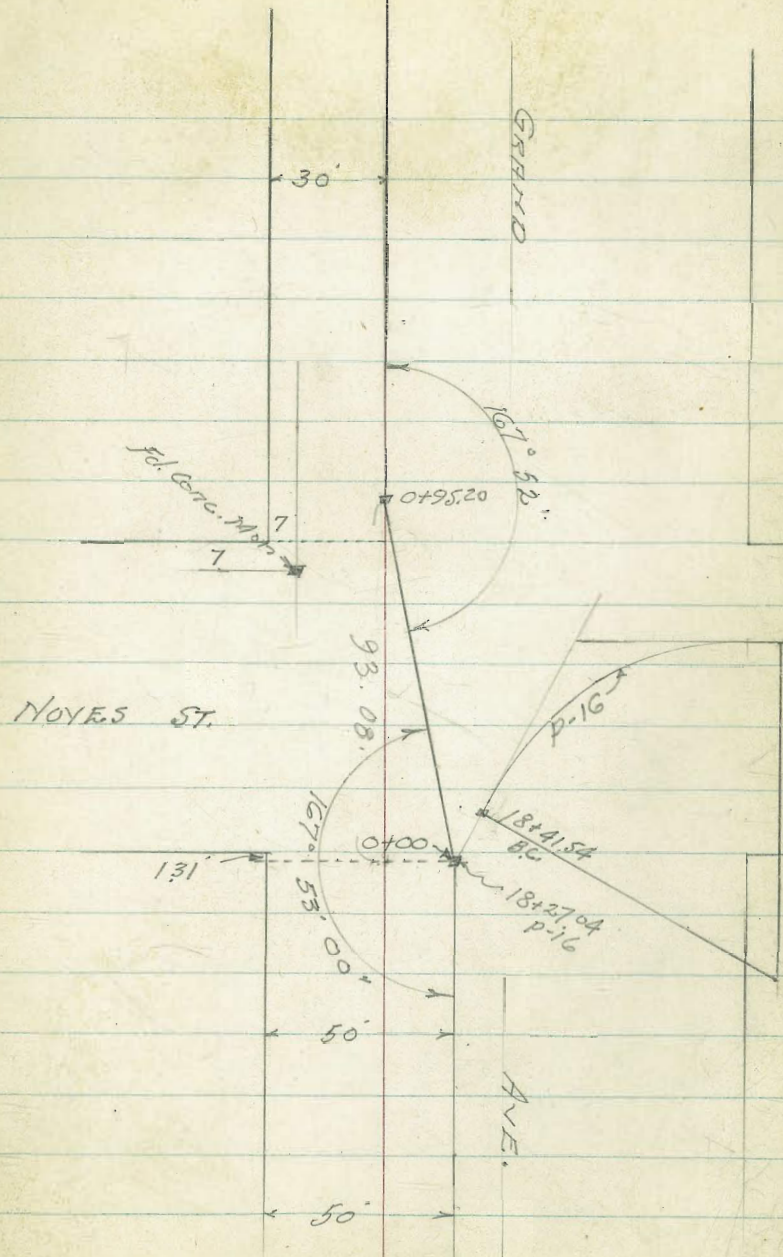
110.02

Notes of Drain

Reduced by C.M. 5-28-52

Chk. Starting S.M. P.24		5.70	62.02 ✓
TP #22	1.12	67.72 ✓	12.39 66.60 ✓
TP #21	0.02	78.99 ✓	13.05 78.97 ✓
TP #20	2.06	92.02 ✓	8.88 89.96 ✓
		98.84	

GRAND AVE - PROPOSED DRAIN
FROM NOYES to KENDALL ST.
NO 20822



INDEXED
FEB 27 1952

BALBOH AVE

Proposed Drain

GRAND

62.5
30'

MORRELL

ST.

(Levels P-55)

curb line

6+03.07
P.O.T.

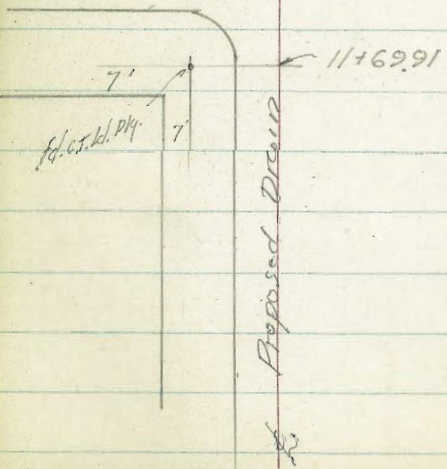
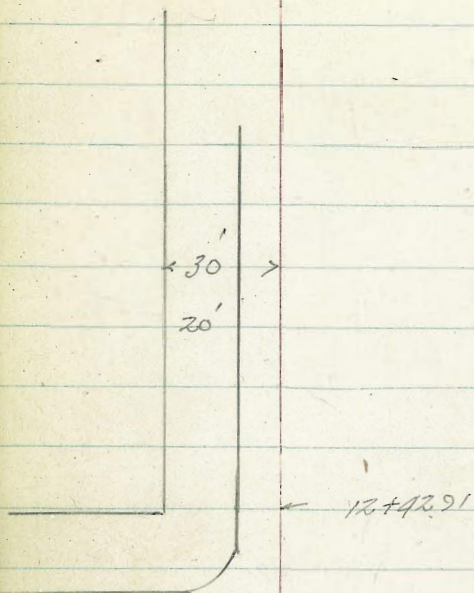
60°
0+00

20'

2+45.50 cross
Set checked 02
Set curb 02
11' N of End.

8+83.07
7'
7'
Fid. Hub
NO TACK

AVE



LAMONT ST.

HORN BLEND

KENDALL ST.

ST.

20

40

20

18+53.94
18+38.55

of GRIND

of Repaired Drain

30

20
30

17+88.55
17+17.86
BC.
Pcty
L=106.9
A=90°

7
7
20
fact.
1st. Pp.

7
7
Pcty
L=106.9

17+42.86
20

Grand Ave - Drain
 from Hoyes to Kendall
 Location P-44-97

2100

1750

6+95.20 = A RT

0755

0750

0+00

CHK 86 S.H. 18+4154 636

687 42.33^v

35.96
 35.97^v

35.46

Lt. R P 48

35.2
 7.1
 10

35.4
 6.7
 10

36.0
 6.3
 10

35.0
 7.3
 10

35.2
 6.4
 10

35.8
 6.5
 10

35.2
 7.1
 10

36.4
 5.9
 10

37.0
 5.3
 10

36.5
 5.8
 10

37.3
 5.0
 10

35.2
 6.6
 10

35.2
 6.4
 10

36.4
 5.9
 10

36.0
 6.3
 10

36.0
 6.3
 10

35.5
 6.8
 10

35.26
 6.87
 10

35.8
 6.5
 10

42.33^v

B.M. on Hub 18+2704 P-32

Grand Ave - Drain

5+50

5+00

4+50

4+00

3+50

3+00

2+50

Lt.

4.5

1.7
10

40.2

2.1
10

38.5

3.8

37.2

4.6
10

37.0

5.3
10

36.2

5.6
10

36.1

6.2
10

Rt.

40.2

1.9

40.2

2.1

38.2

3.5

37.6

4.7

37.2

5.1

36.6

5.7

36.2

6.1

42.33 ✓

Rt.

40.2

1.5
10

40.2

2.1
10

39.1

3.2
10

38.9

4.3
10

37.5

4.8
10

37.1

5.2
10

36.5

5.8
10

49

Grand Ave - Drains

7+18

Lt. Ft. 50
 6.42 3 42 3
 10 6.5 6.2 8.3 6.2
 13 Wash 16 Roadway

7+10

40 2 41 0 41 5 42 2 40 0 42 4
 8.6 8.5 8.0 6.6 8.7 7.1
 10 6 10 Wash 12 Roadway
 15

7+00

40 2 41 0 42 2 41 2 42 2 41 2
 8.6 8.5 (7.2) 8.1 6.8 9.1
 10 15 8 10 13
 17 Wash
 sk. taken not taken in order

6+40

39 5 40 1 40 2
 10.0 9.4 9.3
 10 10

6+30

39 2 39 2 40 5
 10.3 9.8 9.0
 10 10

6+03.07 on Hub

TP 9.60 49.47 2.46 39.87 ✓

49.47 ✓

6+00

38 2 39 1 40 0
 3.4 3.2 2.3
 10 10

5+23

42.33

40 6 41 0 41 4
 1.7 1.3 0.9
 10 42.33 ✓ 10

GRAND AVENUE DRAIN

10+16 14.5' Lt 24" Pepper Tree

10+00

9+98 148' Lt 2' Pepper Tree

9+69 14.6' Lt 2.5' Pepper Tree

9+50

9+00

8+60

8+25

8+00

7+60

	Lt.			Rt	51
	46.3	45.8	45.1	45.6	
	3.2 15	3.7 9	4.4 4	3.9 10	3.4 10
		45.3	45.5	44.9	45.5
	4.2 10	4.0 5	4.6	4.0 10	
	44.0	45.8	44.5	44.5	45.0
	5.5 17	3.7 6	5.0	4.5 10	
	44.2	45.6	45.5	44.0	44.5
	5.3 15	3.9 10	4.0 5	5.5	5.0 10
	43.8	45.5	43.8	43.4	43.6
	5.7 15	4.0 8	5.7	6.1 4	5.9 10
		43.1	43.6	43.2	43.1
		6.4 10	5.9	5.6 3	6.4 6
	43.1		43.4	43.5	42.2
	6.4 10		6.1	5.9 8	6.8 10
			49.47		6.3 15
					Roadway

GRAND AVE - DRAIN

12+42.91 = W.L. Lamont = Edge Pav.

12+22.91 = W.L. Lamont

11+83 = Edge Pav.

11+50

TP 7.14

54.57

2.09

47.43

11+13 = Reg. Curb on Lt

11+00

10+62 14.5' Lt =

10+51 18" Palm 13' Lt.

10+50

49.47

48.73	Lt.	48.12	R.	48.62	Rt.
5.84		6.45		6.22	5.95
10		10		10	10
cb		Pav.		Pav.	

48.69		48.03		48.25	
5.88		6.54		6.22	6.01
30		30		10	10
cb		Gut.			

47.74		47.33		47.24	
6.83		7.24		6.94	6.83
Top		27		22	10
cb		Gut		cb	Gut

47.71		47.65		46.89	
6.80		6.92		7.58	7.4
18		Top		10	10
Work		cb		Gut	

54.57

47.32		47.24		46.7	
2.15		2.23		2.8	2.5
16		10		10	10
Work		curb		Gut	

		47.2		46.21	
		2.3		3.3	2.7
		10			

46.6		46.3		46.0	
2.9		3.2		4.1	3.5
10		8		5	10

49.47

17+17.86-86.

Lt.	%	Rt.
50.31		
426	4.9	4.75
10	10	10
cb.		4.6

17+00

49.6		
461	5.1	5.2
10	10	10
cb.		

16+00

49.2		
565	6.1	6.1
10	10	10
cb.		

15+00

48.2		
582	6.3	6.3
10	10	10
cb.		

14+00

48.2		
565	6.1	6.1
10	10	10
cb.		

13+00

48.2		
582	6.3	6.3
10	10	10
cb.		

12+54.66

48.2		
582	6.3	6.3
10	10	10
cb.		

54.57^v

GRAND AVE - Drain

Lt.

Rt.

Rt.

54

0.14

Grand & Kendall
 Chk N.W. BR. ~~not found in N.W. BR~~ 4.00 51.51
 51.37
 18+65.3

50.5
 4.9
 40
 51.49
 3.88
 40
 Top cb
 51.53
 3.84
 Top cb
 7.05
 4.7
 0

18+50.30

50.5
 4.9
 40
 51.39
 3.98
 40
 Top cb
 51.41
 3.93
 Top cb
 7.25
 4.8
 0

18+38.55

50.5
 6.0
 40
 51.35
 4.2
 40
 Top cb
 51.38
 3.99
 Top cb
 6.25
 4.8
 0

18+28.55

50.5
 51
 40
 404
 40
 Top cb
 10' cbr
 E.C.
 51.33
 4.8
 0
 51.37
 4.00
 Top cb
 E.C. 10' cbr

18+18.55

40
 60
 cb
 401
 50
 80
 10' cbr
 Top cb
 51.32
 4.8
 55.37
 51.5
 4.02
 10
 80
 10' cbr
 Top cb
 81.15
 3.99
 20
 Top cb

NE Tack Kendall & Grand.
 T.P. 3.80 55.37 3.00 51.57
 Lamont & Grand
 Chk N.W. BR. 4.26 50.37 = Reser &
 50.31

50.5
 4.1
 10
 51.26
 4.31
 Hub.
 50.5
 4.0
 10

17+88.55 = E.C.

54.57

54.57

MORRELL ST - DRAIN

(Location P-45)

2+65.5

2+45.5

2+00

1+50

1+00

0+50

0+00 P-45

INDEXED
law
JUN 23 1952

Reduced by CRL 5-28-52

952

49.39^v

39.87^v

19.39^v

473	481	466	470	4684	465
21	13	28	24	2.55	29
40	40	27	10	Top cb	0
	466	464	464	4585	464
	34	27	30	3.54	30
	40	27	10	Top ch	10
				=Ground	
		451		451	455
		3.7		3.9	3.9
		10			10
			444	442	441
			50	52	53
			10		3
			431	430	421
			63	64	67
			10		5
					432
					5.2
					10
			418	418	421
			7.6	76	6.5
			10		5
					412
					7.5
					10

D. Smith
 C. Allen
 R. Taylor
 R. Parks
 2434³¹ E Oliver

Realign Storm Drain

2400

1450

1700

0462 3⁵ RT E SMH

0450

0400

BM 12⁸⁰

11¹⁶

2.0
 13²

1.8
 13⁰

1.8
 13⁰

2.0
 13²

-6.23 0.12
 17³⁹ 11⁰⁴
 10 35
 35 11M

2.4
 13⁶

2.1
 13³

-164 0400 H46
 P24

Olney & Noyes St.

5400

4450

4700

3470

3445

3427

3406

2450

2 W0# 20 822 56
 6-20-52

11.0
 0²

8.6
 2⁶

7.2
 4⁰

6.3
 4²

6.2
 5⁰⁰

2.0
 13²

1.8
 13⁰

2.0
 13²

11¹⁶

INDEXED
 LAW
 JUN 23 1952

7750

15.65
5.03

7700

15.19
5.42

6750

14.37
6.31

2' Lt wly edge AC. Olney St

6700

13.84
6.84

5784¹⁰ & Reed

13.76
6.92

5754 Begin AC paving

13.29
7.39

5750

13.2
7.5

TP, 10⁴² 20⁶⁸ 0²⁰ 10²⁶

11400

23.18
9.98

10450

21.96
11.20

10700

20.9
12.3

TP₂ 13⁰⁹ 33¹⁶ 0⁶¹ 20⁰⁷

9750 8' Lt ESMH 10⁸⁸ 0⁶¹ 0⁹³
8' 10' 8'
YIM 8'
24' Main
from WLP

9700

18.50
2.18

8750

17.38
3.30

8700

16.16
4.22

20.68

12+67² 5° RT Radial E 12" Power P₀/P #2199 9.56 28.16

Radial

12+60 30° RT E SMH

23.60 5.00

Flows from South to east

30 30
18 11M

→ 24" Main

29.8

12+56⁸⁹ 1/2

34

26.3

12+22²³ 1/4

62

25.47

11+88⁵⁶ BC Lt

7.69

2' Lt edge w/ly of AC paving

24.48

11+50

8.65

16.78 23.06

11+09 10° RT E SMH

16.38 10.00

Flows from West to East 8" LINE
out of Alley

1.0 11M
102 102

33.16

33.3

15+50

92

32.6

15+00

92

31.1

14+50

114

TP₃ 11.0 42.51

175 314

29.7

14+00

35

29.0

13+50

42

29.00

13+25²³ EC

4.16

4.6

29.2

12+91⁰⁶ 3/4

4.0

33.16

2

18+25⁵¹ mid Pt

34.6
52

17+79⁷⁰ BC RT

35.5
70

17+74¹⁸ L. 30° RT

35.4
71

17+50

35.1
72

17+00

33.8
82

16+50

33.3
92

16+00

33.3
92

42⁵¹

19+33¹² old KC

19+10¹⁴
=5 KC
18+71³³
↓

40²⁹ p 33
33
10
218
Hub

29.7
28
Stub

42⁵¹

Proposed Drain - W.O. 20822

Diamond Noyes to Lamont

Also see page 21 this book

4-22-53

CHS
Boyer
Altman
Schelin

Sommermyers
MORRELL

- denotes Fd point as noted.
- " set 1/2 + disk
- × " cut cross in conc.

Ref. sheet 7262-L

" F.B. 1795-PA2

" F.B. 2161-P-21

w. denotes edge of city walk

S.D. " start conc. drive

E.D. " End " "

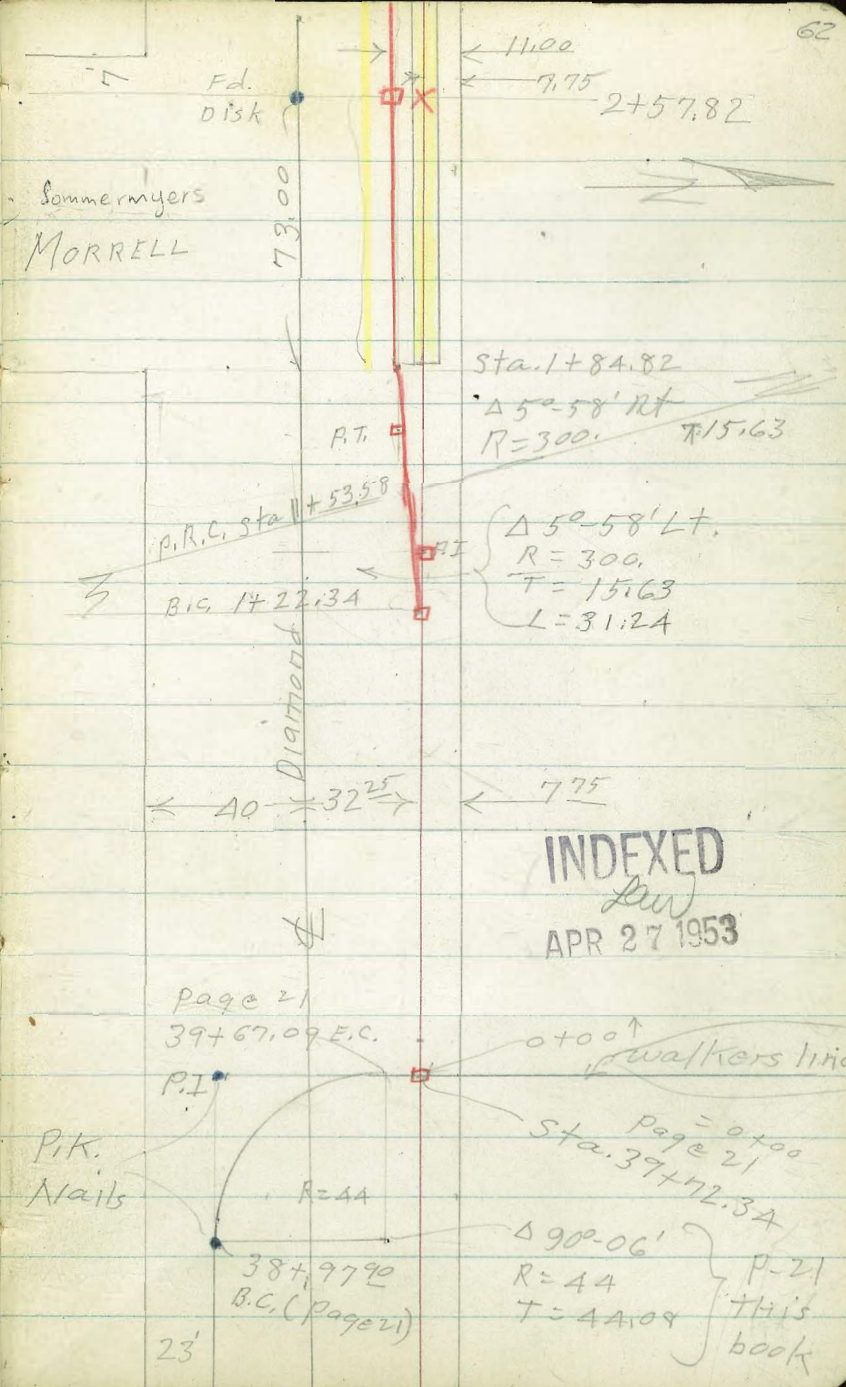
cb. " top of curb

outs to center of trees

(2' Palm - denotes 2' Diam)

S.W. = start walk

E.W. = end walk



INDEXED
APR 27 1953

Page 21
39+67.09 E.C.

0+00 ↑
walkers line

Page = 0+00
Sta. 37+72.34

P.K.
Nails

38+97.90
B.C. (page 21)

Δ 90-06'
R=44
T=44.09
p. 21
This
book

23'

5+50

8+27.22

Lamont.

$\Delta 22^\circ-25' Lt.$

7+87+30

4+70 = P.O.T.

$\leftarrow 41.75 \rightarrow$

conc. Pav.

7' Lt.

5+75

5+59.5

7+53.92

$\Delta 22^\circ-30' Lt.$

8.75

$\leftarrow 1.75 \rightarrow$

Diamond



$\leftarrow 29 \rightarrow$

$\leftarrow 40 \rightarrow$

Ed. Disk

40'

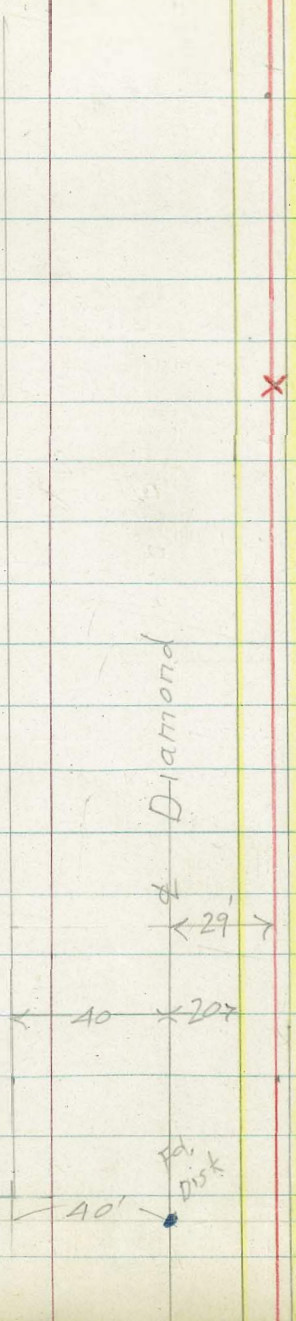
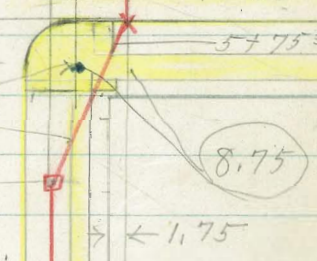
2+57.82

$\leftarrow 29 \rightarrow$

Diamond

5+70 = P.O.T.

Morrell



Diamond

±

64

0+44 6⁵ Lt. = 2⁵ Palm

0+35- 6⁵ Lt. = 4" Hibiscus

0+24 6⁵ Lt. 2 1/2 palm

91.6

0+03

8.1

0+01

90.6

9.3

= 0+00 on Hub.

90.91

39+72.34 page 21

91.02

0-05

91.6

8.3

0-10

91.6

8.3

B.M.#2 3.53 99.93 1.28 (96.40) ±

Disk & Diamond
Wly 71 Merrill

99.93

(101.55 MSL.)

T.P. 7.95 97.68 4.10 89.73

B.M.#2 6.24 93.83 — 87.59

± Diamond
Disk wly 71 via Noyas page 38

Diamond

T.P. 6.64 101101 5.56 94.37

94.9

1+35

5.0

1+28

93.9

6.0

1+22³⁴ B.C. $\Delta = 50.58'$ Lt. R=300

93.7

6.2

1+11 6⁴ Lt. = 2' Palm

92.9

1+00

7.0

0+95 7⁸ Lt. = \pm 8' drive

93.14

0+88 6' Lt. = 2⁵' Palm

6.77

7.8

\pm drive

0+66 6' Lt. 2⁵' palm.

0+60 2' Lt. = 5' high shrub.

92.2

92.42

0+50 7² Lt. = \pm 8' conc. drive

7.7

7.51

7.2

\pm drive

99.93

Diamond

2+24

2+19

2+00 = E. W.

1+95 start walk

2' RT. = start walk
 2' RT. = sty edge walk
 9' Lt. = Face of cb. = start cb.

1+84.82 = E.C. = Ely line Morrell

1+57 - 6⁹ RT. = 3' wide conic steps

1+53.58 = P.R.C. $\Delta 5^{\circ} 58'$ R=300

96.30
 4.71
 on drive

96.34
 4.67
 S.D.

96.15 96.15
 4.86 4.86
 E.W. 2
 W

96.11
 4.90
 S.W.

95.97 96.0 96.04
 5.04 5.0 4.97
 9
 cc 2
 E.W.

96.3 97.06
 4.7 3.95
 6 6.7
 top of
 bottom step

95.3
 5.7

107.01

Diamond

67

	8.72	107.89	1184	99.77
T.P.	8.75			

3+00

2+76

E.D.

2+71

2+66

S.D.

2+50

8 ft. = stub pole

2+46

0 ft. = dead man

2+29

97.83

3.18

9
cb

97.9

3.1

97.25

3.76

E.D.

96.96

4.05

97.05

3.96

S.D.

96.67

4.34

9
cb

96.8

4.2

96.47

4.54

E.D.

97.92

3.09

2
w

96.79

4.22

2
w

101.01

Diamond

4761 = S.D.

4750

4706 = E.D.

4700 on drive

3797 = S.D.

3784 6' Lt. = 8" pole # 1980

3750

102.35

5.54

101.86

102.0

102.03

6103

5.9

5786

9
cc

2
w

100.77

7.12

E.D.

99.91

100.48

100.63

7.98

7.41

7.26

9
Ch 19 drive

2
w

100.50

7.39

99.16

99.2

99.25

8.73

8.7

8.64

9
cc

2
w

107.89

Diamond

5+50

5+23^E = E.D.

5+19 = on drive

5+14 = S.D.

5+00

4+70 = E.D.

4+66 on drive

104.38

3.57

9
cc

£

104.4

3.3

104.05

3.84

E.D.

103.70

4.19

103.69

4.20

S.D.

103.19

4.70

9
cc

103.4

4.5

102.59

5.30

102.36

5.53

104.59

3.30

2
W

103.37

4.52

2
W

107.89

Diamond

T.P. 5.47 111.17 2.19 105.710

6+49 - 3⁶ Lt. = 10" palm.

No mortar.

6+30 = cross conc. black walk

6+03 3⁶ Lt. = 10" palm.

6+00

105.07	105.2	105.23
2.82	2.7	2.66
9		2
06		W

5+80 - 3⁶ Lt. = 1" palm.

5+75

104.88
3.01

5+70 on drive

104.69
3.20

5+65 = S.D.

104.77
3.12

111.17 ? 107.89

Diamond

7+07^E on drive

7+03 = S.D.

7+00

6+63 = E.D.

6+55 on drive

6+54 = S.D.

6+50

105.65
5.52
L.P.

105.74
5.43
S.D.

105.6 ^v	105.8	105.78
5.55	5.4	5.39
7 CG		2 W

105.71
5.46

105.50
5.67

105.61
5.56
S.D.

105.34	105.5	105.64
5.83	5.7	5.53
7 CG		2 W

111.57

Diamond

±

72

7+53 ⁹⁰ = Δ 22°-30' RT

105.88

106.01

106.07

5.29

5.16

5.10

9
sl

Hub.

2

w

7+33 E. D.

105.89

5.28

7+31 on drive

105.81

5.36

7+19 on drive

105.74

5.43

7+17 = S. D.

105.78

5.39

S. D.

7+12 = E. D.

105.75

5.42

111.17

~~105.75~~

Diamond.

4

73

8+27² = Wly. gutter Lamont.

106.46

4.71

8+07 = \pm Lamont

106.54

4.63

7+87³⁵ = Ely. gutter line

105.55

5.62

7+87³⁰ = Δ 22^o-25' Lt.
Face of Ely. Ob. Lamont

106.05

5.12

5+75⁵ = leave walk

106.05

5.02

w

see sketch ↗ p-63
↓

5+59⁵ = start conc. walk

106.11

5.06

w

114.57

Diamond

4

74

See FB 1795-P42 for
Intersection Lamont + Diamond

0.27 105.82 ✓
91.69 106.09 - 96.40 B.M.#2

} check from B.M.#2 to B.M.#3

111.97 MSL.

B.M.#3

5.35 105.82

s.w. B.P. Diamond + Lamont

8+38 - Ely edge N.+S. conc. walk

107.12

4.05

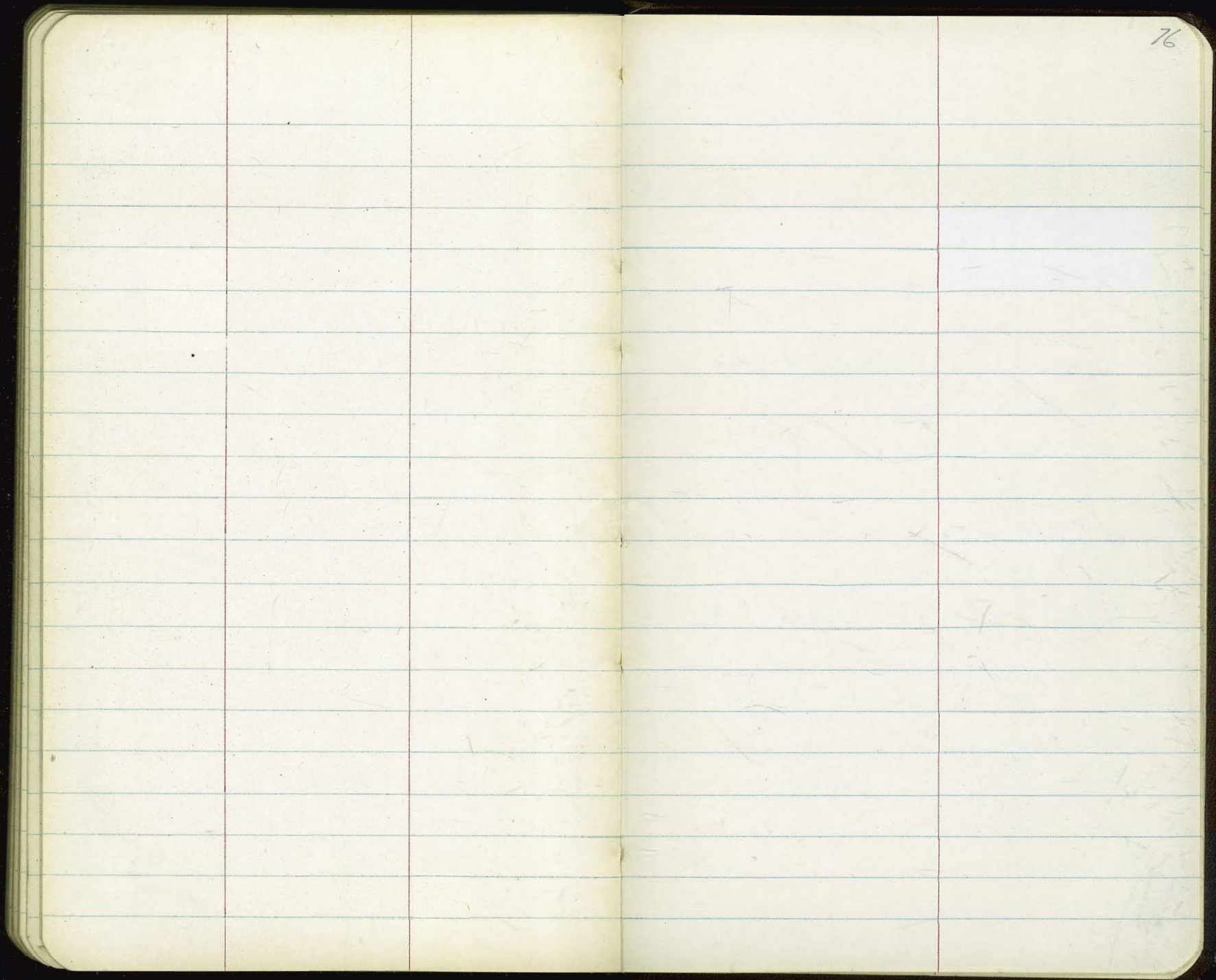
8+29 4⁸ Lt. = Metal street marker

107.01

4.16

8+27²² = wly. cb. Lamont.

111.17



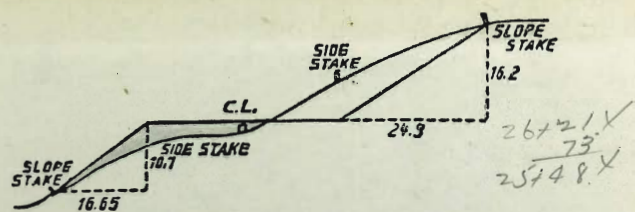
The image shows an open notebook with two blank, lined pages. The pages are cream-colored with light blue horizontal ruling. The notebook has a dark cover visible around the edges. The page number '79' is written in the top right corner of the right page. The pages are otherwise empty of any text or markings.

6072 W
 4988 E
 1114
 5253
 4139

53
 33
 968

N.W.S. B.P. Droy & Gurnet 4513
 Hoyes & Reed II in walk N.E. - 2076 (Gore)
 Hoyes & Gurnet N.W. B.P. (6202)
 FB 2044 (6198)
 25

1.43
 1.5707
 45
 78535
 62529
 705815
 33.40
 75390
 8730
 10236
 535
 970149
 171786
 7069
 1715855
 05212
 300
 1523400



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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