

1649



---

ENGINEER'S  
LEVEL BOOK  
No. 410F

---

# 1649

## EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and  
SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning  
Roadway 16 feet wide. Side Slopes 1 on 1.  
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

# CITY ENGINEER

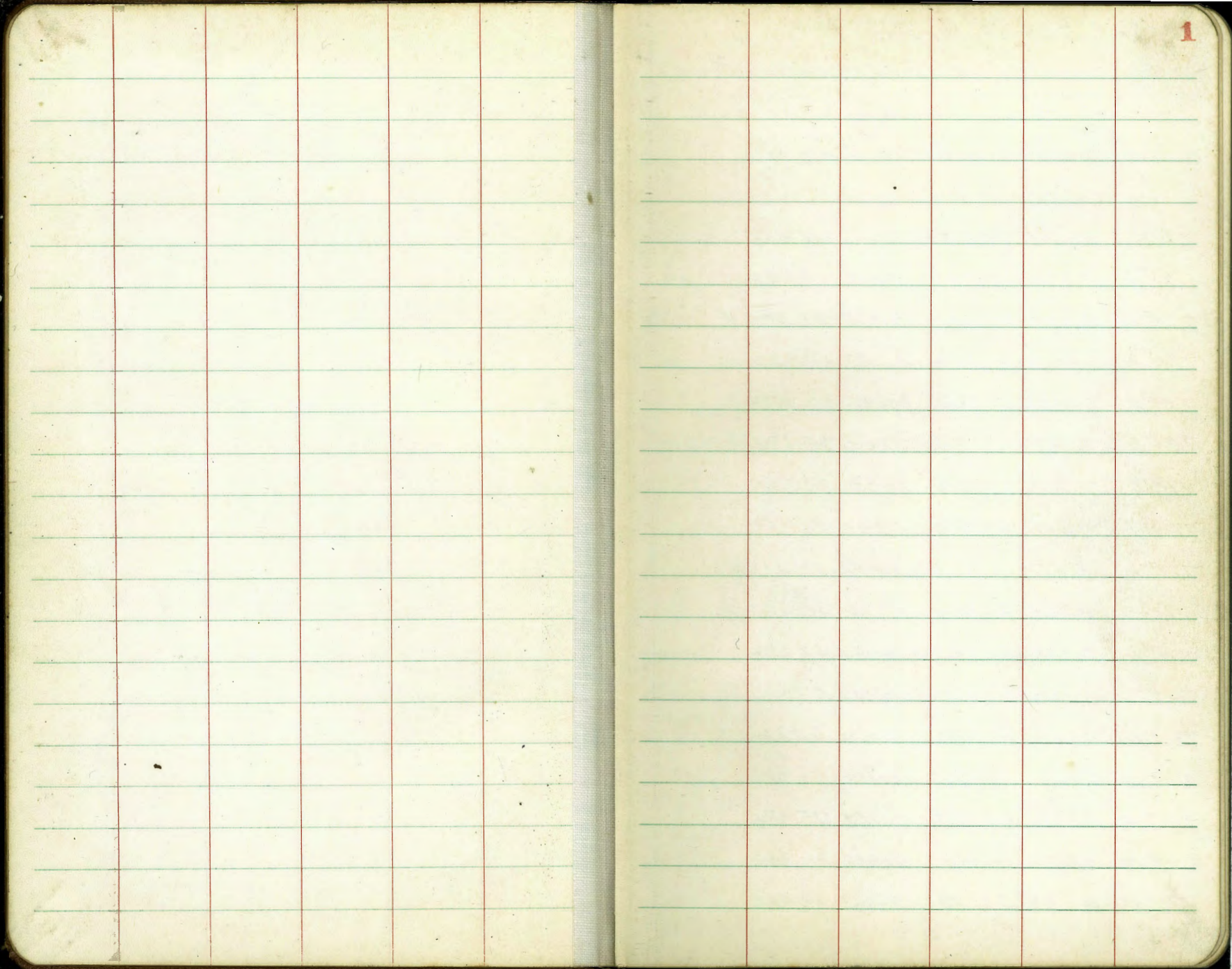
ENGINEERING DEPARTMENT  
CITY OF SAN DIEGO,  
CALIFORNIA.

INDEXED  
*Completely*

The paper stock of this book is made of a high grade 50% rag paper having a water resisting surface. This book is sewed with Bing Special Enamel Waterproof Thread.

Made in U. S. A.

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6 + (20-16) ÷ 2 or 2 ft. added to 30.6 = 32.6. For slopes of 1 on 1½ see inside of back cover.  
Copyright, 1914, by Eugene Dietzgen Co.



## Walker - BENCH MARKS

Hard 17  
 10-27-42 From North End Mission Beach  
 Sea Wall and through Lapolla  
 To Scripps Institute at NW  
 end of Lapolla Shores  
 U.S. COAST & GEODETIC DATUM

0.645 16.650 16.905

TP #1 8.733 19.381 6.002 10.648

TP #2 6.635 20.621 5.395 13.986 ✓

TP #3 6.563 23.957 3.227 17.394

TP #4 7.702 27.977 3.682 20.275

TP #5 7.557 32.734 2.800 25.177

TP #6 7.701 38.246 2.189 30.545

TP #7 7.602 43.853 1.995 36.251

TP #8 5.450 46.861 2.442 41.411

TP #9 8.728 48.849 6.740 40.121 ✓

TP #10 9.338 58.033 0.154 48.695

TP #11 8.610 66.296 0.347 57.686

TP #12 7.843 72.059 2.080 64.216

TP #13 7.700 77.640 2.119 69.940

TP #14 8.787 84.162 2.265 75.375

TP #15 9.568 90.918 2.812 81.350

TP #16 9.553 98.018 2.453 88.465

Cont. P. 3

Indexed  
c.s.k.

2

Brass Plug in Top Sea Wall <sup>Head Mission</sup>  
 on Peg <sup>Beach.</sup>

Brass Plug NE Cor Thomas &amp; Ocean Blvd.

Nail in Parking 50' N of Grand Ave "

" " " Ocean Blvd &amp; Humboldt

Brass Plug NE Cor Garnet &amp; Ocean Blvd

7 Line Felspar & E Line  
 Id. Ct. NE Cor Felspar & " "

Brass Plug NE. Diamond &amp; " "

" " <sup>SW.</sup>  
<sup>St.</sup> " Mission Blvd.

Nail SW Missouri &amp; " "

Brass Plug NE. Chalcedony " "

" " NE. Low " "

" " NE. Beryl " "

" " NE. Wilbur " "

" " NW. Loring " "

" " NW. Opal " "

TP #17	12.045	108.790	1.273	96.745
TP #18	10.002	117.712	1.080	107.710 ✓
TP #19	1.010	116.360	2.362	115.350 ✓
TP #20	2.843	106.223	12.980	103.380
TP #21	0.550	102.943	3.830	102.393
TP #22	1.302	91.272	12.973	89.970
TP #23	4.068	85.220	10.120	81.152
TP #24	4.018	83.493	5.745	79.475
TP #25	8.810	87.456	4.847	78.646
TP #26	2.689	89.965	0.180	87.276 ✓
TP #27	3.843	86.718	7.090	82.875
TP #28	4.875	85.920	5.673	81.045
TP #29	5.507	88.080	3.347	82.573
TP #30	5.365	89.625	3.820	84.260
TP #31	6.763	92.318	4.070	85.555
TP #32	5.760	94.068	4.010	88.30.8 ✓
TP #33	2.150	90.866	5.352	88.716
TP #34	0.977	86.973	5.770	85.096
TP #35	6.565	88.833	3.805	82.268
TP #36	5.782	91.425	3.190	85.643

Cont. P-4

W side  
Nail in Par joint Tourmaline & Mission Blvd.

Brass Plug NW Cor Sapphire " "

" " NW. N. Turquoise " "

on Peg 10' N NW " 500' West " "

NW. Cor Abutment S.D.E.R.R. Bridge over Turquoise 800' West of Mission Blvd.

Brass Dist USC & G. Turquoise  
Marked "D61" 99.473 = USC & G.  
1927 2.891  
102.274 0.021 diff.

on Peg RT Bank 100' W overpass  
Approx 500' West S.D.E.R.R. overpass  
E.C. of Turquoise

Brass Plug in cb on East side Laguna Blvd

Peg Near cb 500' North of Above Point

" " 1000 " " " E.C.

Brass Plug SW. Colima & Laguna Blvd

on Peg W edge Walk Bet. Colima & Forward

Brass Plug NE Cor Midway & Laguna Blvd

Peg E side Walk 300' NLY Midway st on "

Brass Plug SW E Cor Forward st & Laguna Blvd

Peg on NW edge Walk 400' NLY of Above BM on "

Brass Plug SW Bird Rock Ace & Laguna Blvd  
25' E of cb

Peg 500' N of Bird Rock " "

Brass Plug on W cb Laguna Blvd Approx 125' S Carrizo DelaCorta

Peg on W side Walk 500' N of Above B.M.

Cont from P. 3

91925

TP#37 2.943 92.683 1.685 89.740

TP#38 4.888 93.111 4.460 88.223

TP#39 6.740 95.524 4.327 88.784 ✓

TP#40 4.983 97.837 2.670 92.854

TP#41 2.925 93.127 7.635 90.202

TP#42 3.248 91.008 5.367 87.760

TP#43 1.327 90.915 1.420 89.588

TP#44 4.188 88.382 6.721 84.194

TP#45 0.690 81.414 7.658 80.724

TP#46 7.770 82.231 6.953 74.461

TP#47 9.280 90.568 0.943 81.288 ✓

TP#48 3.878 93.229 1.147 89.421

TP#49 1.848 89.507 5.640 87.659

TP#50 2.662 83.839 8.330 81.177

TP#51 3.237 82.188 5.588 78.251

TP#52 4.670 83.775 3.083 79.103

TP#53 5.612 84.706 4.681 79.094

TP#54 0.655 81.176 4.135 80.521

Cont. P- 5

4

SE. Top Fire Hydr. Mira Monte &amp; La Solla Blvd.

Peg on E side Walk 400' N Above BM. on "

NWLY BP Via Del Norte &amp; La Solla "

on Peg E side of Walk 500' N Above BM on "

" " 500 N Above <sup>on</sup> same side

NELY BP Palomar &amp; La Solla Blvd.

<sup>SELY</sup>  
Peg in cb. at Fire Hydr. Rosemont " "

Brass Plug SW. Kolmar " "

Brass Plug SE. Gravelle " "

Bolt Hd. Top Traffic Mart 300' N Above BM.

Brass Plug SW. Bon Air &amp; La Solla Blvd.

SE. Top Hydr. Nautilus " "

<sup>Set New Ply.</sup>  
NW. BP Westbourne " "

Note: Old Ply on SE. " is gone "

<sup>Temperature</sup>  
on Peg NE. Fern Glen & La Solla "<sup>Set</sup>  
SE. BP Arenas " "<sup>old</sup>  
Note: NW Ply. gone at Arenas " "

NW. BP Center &amp; La Solla Blvd.

Nail in E. cb. So of Marine St. on "

Cont. from P. 4

\*  
81,176

USC & G

TP #55 9,568 85,077 5,667 75,509 ✓

TP #56 6,367 90,632 0,812 84,265

TP #57 8,032 98,334 0,330 90,302

TP #58 7,970 104,281 2,023 96,311

TP #59 7,421 109,950 1,752 102,529

TP #60 8,245 113,849 4,346 105,604

TP #61 12,222 123,657 2,414 111,435

TP #62 5,782 124,744 4,695 118,962

TP #63 0,710 125,234 0,220 124,524 ✓

TP #64 0,677 116,192 9,719 115,515

TP #65 1,552 109,323 8,351 107,841

TP #66 7,398 111,861 4,930 104,463 95.45

TP #67 8,762 120,443 0,180 111,681

TP #69 8,093 126,976 1,560 118,883

TP #70 2,160 124,816  $\frac{124.816}{9.01} = 115.80697$

Card, Moore 12-31-54

8M.R.P. 9,057 133,873 124,816 ✓

TP #71 10,464 142,85 1487 132,386

5

Set

Brass Plug S.E.L.Y. Cor Pearl & LaSalle Blvd.

Peg South Side Pearl in <sup>Front</sup> Standard Auto Laundry

N.E.L.Y. Brass Plug Pearl & Currier St.

Peg S.L.Y. side Draper 100 N.W.L. Pearl

N.E.L.Y. Top Fire Hydr. Pearl & Draper

Peg W.L.Y. side Pearl 200' N Draper

Set S.E.L.Y. Brass Plg. ~~N.E.L.Y.~~ Pearl & Leads

N.W.L.Y. Top Fire Hydr. Pearl & Fay St.

S.E.L.Y. Brass Plug Pearl & Girard St ✓

Nail 10' N. Pearl Girard 175' N Pearl

" " 10' P " 180' N " "

Set S.E.L.Y. Brass Plg. ~~N.E.L.Y.~~ Girard & College Virginia Way

Peg E.L.Y. side Torrey Road 150' N Colley

" W side curb & 40' North Herschel & Torrey Road

Brass Plg N.E. Herschel & Kline old City 115.51

" " " " " "

" " " " " "

" " " " " "

Cont'd. front p 5

102.85

137.46

Found  
check to B.M. B.P. in curb 5.39 137.46

T.P. #72 12.319 153.999 6.17 141.68

T.P. #73 10.889 164.575 0.313 153.686

U.S.G.S.  
check to Stan. desk in Can. Post 6.532 158.043 158.043  
2.891  
155.152

T.P. #74 6.938 169.918 1.595 162.98

T.P. #75 7.49 176.536 0.872 169.046

T.P. #76 1.846 176.280 2.10 174.436

T.P. #77 1.547 169.302 8.527 167.755

7'  
check to B.M. 144 CT 7.767 161.535

T.P. #78 1.03 162.517 7.815 161.487

✓

128.09 = old City Elev.

137.46  
9.01  
128.45

N.W. by Ivanhoe + Kline

U.S.G.S. "SW."  
154.992 "1938 H.S.C. 155" NW Cor. Ivanhoe Ave. East

and Torrey Pines Rd. in Cor. of 66. & walk  
47' S of E Ivanhoe East and 1' in from 66.

Walker 1920  
161.656 1423-10 S Ely 7' CT. Torrey Pines Rd + Prospect

Set B.M. B.P. City Mon. S Ely " " " "  
on Ely Line Torrey Pines Rd.  
25' inside curb, about flush with sdw.

CITY DAT. = 152.21 F.B. 1650-64  
30-27-43.



Contd from 16  
162.517 ↓

T.P. 479 0.21 150.477 12.25 150.267

T.P. 480 0.097 138.004 12.57 137.907

T.P. 481 0.41 129.196 9.218 128.786

check to 814 BP in Curb 6.37 122.826

T.P. 484 0.445 119.376 10.265 118.931

T.P. 485 0.268 106.971 12.673 106.703

T.P. 486 0.347 98.316 9.002 97.969

T.P. 485 5.41 98.596 5.13 93.186

T.P. 486 9.82 104.27 4.146 94.45

T.P. 487 7.718 111.726 0.262 104.008

11

7

1423-10 - 1930  
S.W. Top Curb, Torrey Pines Rd + Coast Blvd.

94.665 = 1423-10 - 1930  
Ld. + C.T. of Princess St + E. of Torrey Pines Rd  
in Curb

Note! This curb may  
have settled some.

Contd. from P. 7  
111.726 ✓

Found  
T. check to B.M.B.P. Top curb 6.126 105.60

T. T.P. #88 3.83 108.271 7.285 104.441

T. T.P. #89 4.038 105.638 6.671 101.60

1/2 T.P. #90 1.601 100.999 6.24 99.398

T. T.P. #91 0.04 93.549 7.49 93.509

T. T.P. #92 3.204 86.861 9.892 83.657

T. T.P. #93 0.998 77.587 10.272 76.589

T. T.P. #94 0.30 67.431 10.516 67.071

Found  
T. check to SWALL B.P. in <sup>TOP</sup> curb 3.49 63.941

Found  
T. check to W.S.C.S. B.M. 9.683 57.748 57.748  
2.891  
54.857

over

105.60

9.01

96.59

96.34 in My B.M. Book.

N.W. 1/4 Cor. Torrey Pines Rd & Viking Way

99.398

9.01

90.388

Ed. B.M.B.P. Top Curb 90.11 Elev. in <sup>MY</sup> Field <sup>B.M.</sup> Book  
N.W. 1/4 Torrey Pines Rd & Little St.

63.941

9.01

54.931

54.69 Elev. in My B.M. Book. from

N.E. 1/4 Torrey Pines Rd & Calle de la Plaza

54.73

0.127  
High

Chiseled Square U.S. 54.7 B.M. N edge of masonry  
of Torrey Pines Rd & La Jolla Shores Drive.  
on Curb at Base of Lamp Post.

215' N.E. 1/4 from E of Calle de La Plaza.

Contd. from P. 8

67.431

USC & G

T.P. #95

Set Con. City Mon. B.P. 9.625 57.806 ✓

Moore

1-6-43

Cont. Walker Circuit of 10-27-42

1.56

59.366

57.806 ✓

T.P. #96

0.851

51.167

9.05

50.316 ✓

T.P. #97

2.375

46.762

6.78

44.387 ✓

~~45.762~~

~~7.78~~

43.387

T.P. #98

0.748

41.60

5.91

40.852

~~40.60~~

~~39.852~~

T.P. #99

1.658

35.073

8.185

33.415

~~34.073~~

~~32.415~~

T.P. #100

3.978

29.806

9.245

25.828

~~28.806~~

~~24.828~~

T.P. #101

3.65

27.876

5.58

24.226

~~26.876~~

~~23.226~~

Contd P. 10

213' NELY from E of Calle de La Plata  
1' inside of N. curb of Torrey Pines Rd.

2' SWly from US. 54.7 B.M. Chiseled square  
about flush with curb and 2' SWly  
from Lamp Post.

B.M. above Con. Mon. B.P.

57.806

1.125

58.931

8.675

50.316

0.90

51.216

6.83

44.386 ✓

0.001

Set B.M.

Id. + C.T. @ Ave. de La Playa & W. La Jolla Shores Dr.

		27.876 <del>26.876</del>	Cont'd. from p. 9	
			U.S.C. & G.	
T.P. #102	4.90	27.033 <del>26.033</del>	5.743	27.133 <del>21.133</del>
T.P. #103	7.255	30.448 <del>29.448</del>	3.84	23.193 <del>22.193</del>
T.P. #104	8.035	37.498 <del>36.498</del>	0.985	29.463 <del>28.463</del>
Set B.M. Chiseled Square	5.672			31.826 <del>30.826</del>
T.P. #105	5.785	40.363 <del>39.363</del>	2.92	34.578 <del>33.578</del>
T.P. #106	5.82	42.727 <del>41.727</del>	3.456	36.907 <del>35.907</del>
T.P. #107	4.72	42.965 <del>41.965</del>	4.482	38.245 <del>37.245</del>
T.P. #108	7.79	47.925 <del>46.925</del>	2.83	40.135 <del>39.135</del>
T.P. #109	8.23	55.043 <del>54.043</del>	1.112	46.813 <del>45.813</del>
T.P. #110	2.052	54.186 <del>53.186</del>	2.909	52.134 <del>51.134</del>

(Cont'd p. 11)

on E of Swily <sup>curb</sup> Return La Jolla Shores Drive  
+ Calle de Frescata

52.134  
2.891  
49.243

49.068 = U.S.G.S. DAT.

Fd. Stand. disk Mtd. U.S.G.S. "H 55 1938"

→ Top curb CTR. of Return Swily Cor.  
of La Jolla Shores Dr. and  
Camino del Collado.

54.186 ✓  
53.186

Cont'd from P 10

T.P. #111 3.65 ✓ 48.31 44.658  
~~47.01 43.658~~

T.P. #112 0.44 46.883 46.443  
~~45.883 45.443~~

T.P. #113 1.92 41.938 40.018  
~~40.938 39.018~~

T.P. #114 5.482 40.508 35.226  
~~39.508 34.226~~

T.P. #115 3.08 38.488 5.10 35.408

T.P. #116 10.988 46.217 3.259 35.229

T.P. #117 7.487 53.297 0.407 45.81

check to USCG Basic 1.179 52.118 ✓

BM Tidal 3 I think has been destroyed

" " 4 New Conc. on top of pier and disk has been covered over.

37.387 = 1st. order leveling  
Fid. Tidal Standard disk stamped "2 1925" <sup>Noted</sup> <sub>marked</sub> <sup>Reset</sup>  
Top Conc. wall at W. side of Museum, 15' S of entrance  
to Basement. Scripps Institute

Standard disk in 15 x 1.5 Con. Mass stamped  
USCG 1929, approx. 200' N of Museum  
Scripps Institute "Basic B.M."

✓

The image shows an open notebook with two facing pages. Both pages are cream-colored and feature horizontal green lines for writing. Vertical red lines create margins on both sides of each page. The right page is numbered '12' in the top right corner. The notebook is placed on a light-colored surface, and the binding is visible in the center crease.

The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. Vertical red lines create margins on both sides of each page. The right page is numbered '13' in the top right corner. The notebook is placed on a white surface, and the bottom edge of the notebook shows a dark cover.

Transfer of B.M.<sup>s</sup> Walker Circuit of

10-27-42. To Con. Mon.<sup>s</sup>

	6.445	37.556		31.111	40.121 = 9.01 31.111 = CITY
T.P.	7.58	44.668	0.468	37.008	
T.P.	5.65	48.004	2.314	44.354	
Fd. old City Con. Mon	3.924			44.08	From Walker
T.P.	5.787	50.384	3.407	44.597	
T.P.	15.444	52.198	3.63	46.754	
check to B.M.B.P. in curb	3.521			48.677	✓

Transfer and check to U.S.G.S.  
Mission Blvd. & Turquoise

	3.459	109.799			CITY DAT. 106.34
--	-------	---------	--	--	---------------------

old City Mon.  
Transfer NW to SW Cor. 6.005 103.794 ✓

check to U.S.B.M. 4.624 105.175 ✓

USC&G P. 2  
B.M.B.P SW Cor. MISSION Blvd. & Diamond St

(Position changed) see P 18

43.952 = old City E.C.  
Cor. 5' N of S.W. Cor. & W. Bayard.  
B.M.B.P Mon. SW. Bayard & Missouri

57.686 = Walker P.W  
9.01  
48.676 NE Cor. Mission Blvd. & Chalcedony

115.35 = USC&G Walker P. 3  
9.01  
106.34 Old City Mon. NW. Mission Blvd. & Turquoise

Re-Set old S.W. 15' W of W. Mission Blvd.  
City Mon. Cor. 1.6' S of S. Curb Turquoise St.

111.20 = U.S.G.S.  
6.119 Chisel Square Top S.E. Curb Return  
105.081 Mission Blvd. & Turquoise

105.175  
105.081  
-0.094 dif.  
See P. 3  
for dif.  
on same line.  
this curb MUST  
be buckling - ?



Transfer of B.M. "Walker Circuit"  
of 10-27-42.

S.W. B.M. in curb, La Jolla Blvd & Colima  
to Con. Mon. with B.P. on N.E. Cor. of  
La Jolla Blvd. & Colima St.

CITY DAT.

5.173 83.439

78.266

Transfer to Con. Mon.

5.235 78.204

Transfer B.M. in Curb to Con. Mon.

CITY DAT.

3.929 83.703

79.774

Transfer to City Con. Mon. <sup>B.P. Plug</sup>

4.571 79.132

Transfer B.M. La Jolla Blvd. and Bonair

4.14 76.418

72.278

Transfer to City Con. Mon.

4.456 71.962

SAME CORNER

87.276 USC & G = Walker <sup>P. 3</sup> 10-27-42 also 1423-9  
9.01

78.266 B.M. B.P. S.W. CB. La Jolla Blvd. &amp; Colima St.

CITY  
CON. MON. N.E. Cor. La Jolla Blvd & Colima St  
55' Ely of 2 " " " & 17' Nly of " "  
2' inside curb and 0.10 below Top curb

88.784 = USC & G Walker Circuit P. 4, See also 1423-9  
9.01

79.774 B.M. B.P. in Curb N.W. La Jolla Blvd &amp; Via Del Norte

CITY  
CON. MON. on Wly Line of La Jolla Blvd.  
B.P. Mon. and 65' Nly front of Via Del Norte.  
1.5 outside of Brick Wall.

81.288 USC & G Walker P. 4. See also 1423-9  
9.01

72.278 City S.W. B.P. in Curb. La Jolla Blvd. and Bonair

CON. MON. approx. 12' W of Wly. La Jolla Blvd.  
B.M. B.P. Mon. 1.5 S of So. Curb of Bonair St.  
3' Wly of Brass Plug in Curb.  
0.2 below Top of Curb

12-23-42.

Transfer and check B.M. Toland Pt.

La Jolla Blvd &amp; Bird Rock Ave

2.222 81.52

City Dat.

79.298 ✓

B.P. in City  
Transfer to Com. Man.

2.475 79.045

T.P. 2.335 ~~77.257~~ 74.782 6.598 74.922 ✓  
72.447

check to Island Pt. 1887 1933 5.799 71.458

T.P. 6.211 81.073 2.395 74.864

check to old B.P. in Carb 1.776 79.297 79.298  
0.001check to B.P. in City Man 2.029 79.044 79.045  
0.001  
↓also 1423-7  
88.308 vsc & G P.3 Walker 10-27-42  
9.01  
79.298 B.M. B.P. in eb. 5x1 La Jolla Blvd & Bird Rock Ave.approx. with La Jolla Blvd. and 0.10 below  
Same Cor. 1.2 S of S. inside edge of John grade of Schu77.393  
6.119  
71.274 Triangulation Pt. "Island Pt."  
Stand disk in Corn. Post near Bird Rock  
0.184 def.

Transfer Walker B.M. to Con. Man. +  
check to U.S.G.S B.M.

La Jolla Blvd. and Pearl St.

Ed. New			CITY DAT.
Brass Plug	2.08	68.579	66.499

check to U.S.G.S B.M.	2.43	66.149
-----------------------	------	--------

check to 7 <sup>th</sup> Ed. C.T. B.M.	4.133	64.446
--	-------	--------

Transfer to City Con. Man.	4.872	63.757
----------------------------	-------	--------

Transfer B.M. S.Ely B.P. in curb to CITY  
Con. Man. S.Ely Pearl + Girard Ave.

B.P. in Curb 487	120.384	CITY DAT. 115.514
------------------	---------	----------------------

Set City Con. Man. + B.P.	5.235	115.149 ✓
------------------------------	-------	-----------

Moore  
12-24-44. Rain  
little wind

17

78.509 = USC & G. Walker P. 5	This Book Brass Plug in Curb.
9.01	
66.499	S.Ely Cor. La Jolla Blvd. + Pearl St.

12.09	Chisel Square Top Curb, Center Return
6.119	
65.971	S.Ely Cor. La Jolla Blvd + Pearl St.

78.563 = USC & G Walker 1423-9	on
9.01	
64.553	SW/y Cor. La Jolla Blvd + Pearl Sidewalk

B.P. City NW/y Cor. La Jolla Blvd. + Pearl St.  
Con. Man. 1' Sly + 1' Wly of NW/y Cor. or below sdw.

12-28-44.

124.524 = USC & G P. 5	Various other Elev's of This B.M.
9.01	CITY: 115.05
115.514	Elev: 115.17

S.Ely Cor. of Pearl + Girard Ave

S. Ely Corner Pearl + Girard  
5' Sly from Sly Pearl + 2' inside of  
Ely curb of Girard  
approx. 0.5 below Top cb.

Change of Location & Elev.  
of Old City Con. Mon. FB 997-50.  
SW Bayard & Missouri Sts.

4.08 48.16

City Dat.

44.08

From Walker  
P. 114

Change Old City Mon. 5.155 43.005 42.882

16.50-38

O.K.

42.88v

Check Levels on Coast Blvd.  
Jenner to Girard

usc+g

5.038 49.048

44.01

T.P. 4.764 50.50 3.31 45.738

T.P. 6.11 51.955 4.05 45.795

T.P. 6.773 58.43 0.298 51.657

check to BMBP in curb 2.02 56.40 ✓

Set City Con. Mon. 4.115 54.315

44.08  
408  
48.16  
5155  
43.003

old City Mon. Bayard & Missouri

Note!

See p. 18  
This book

SW Bayard & Missouri, 1' outside Prop. Cor.  
approx. 0.5 deep but 0.25 below St. grade

14.3-10 Walker curb N.E.B.P. Coast Blvd. & Jenner

usc+g 56.40 SW Coast Blvd & Girard. 14.3-10  
9.01

47.39 = City 47.00 = old City Elev.  
= Walker

54.315 NW Cor " " " "

9.01  
45.305 Set 1' inside of angle of sidewalk  
city and 0.10 below in City Park lawn

Check Levels from Walker Circuit  
of USC & G 10-27-1942 See P. 4 to  
USC & G 1st. Order Leveling  
Stand. disk "C 61 1927" at  
Hi. school Bldg. on Nautilus St

USGS  
DATUM  
84.768

7.29 92058

T.P. #1 10.121 101.468 0.711 91.347  
102.468 92.347

T.P. #2 11.315 112.793 0.49 100.978  
113.293 101.978

T.P. #3 10.723 121.969 1.047 111.246  
122.969 112.246

T.P. #4 10.865 132.159 0.675 121.294  
133.159 122.294

T.P. #5 12.85 144.751 0.258 131.901  
145.751 132.901

T.P. #6 C. 841 150.683 0.909 143.842  
151.683 144.842

check to USC & G 1.505 149.178

Cont'd. P. 20

Moore  
1-5-43.

See F.B. 1408 + 1413

87.659 = USC & G DATUM P. 4 10-27-42 Circuit  
2.891 La Jolla Blvd.  
84.768 Ed. New B.P. in N.Y.C. 6. and Westbourne

Starting BM is approx. 0.08 High  
to check this.

1st. Order Leveling  
Stand. disk "C 61 1927" in Top Con. Step  
of Hi. school on Nautilus  
149.100  
0.078

Leveling back 150.683 cont'd from P. 19

to starting BM.

USGS

T.P. #1 1.31 145.071 6.922 143.761

T.P. #2 0.175 132.586 12.65 132.411

T.P. #3 0.606 121.827 11.365 121.221

T.P. #4 0.045 111.093 10.779 111.048

check to <sup>old</sup> City Brass Plug 1.611 109.482

T.P. #5 1.53 102.928 9.695 101.398

T.P. #6 1.595 95.303 9.22 93.708

T.P. #7 3.197 89.98 8.52 86.783

check back to start BM 5.225 84.755 84.768

0.013

error

in an approx. 400' loop

109.482

6.119

103.363

Brass Plug - See office BM. BK.  
Swely Top cb. Westbourne + Draper

Check Levels from Herschel & Kline  
to USC&G " # 61 1927 1st order leveling  
Bank of Am. Bldg.

1.08 116.886 City Dat.  
115.806

T.P. #1 2.581 111.622 7.845 109.041

check to <sup>old</sup> City B.P. in cb. 7.315 104.307

T.P. #2 5.57 112.956 4.236 107.386

T.P. #3 3.301 110.412 5.845 107.111

T.P. #4 5.098 109.508 6.002 104.411

T.P. #5 2.223 105.43 4.301 103.207

T.P. #6 2.71 99.57 8.57 96.86

check to USC&G " # 61-1927 5.089 94.481

Cont'd. p. 20 ↓

1-5-43.

124.816 - USC&G DAT. P. 5 10-27-42

9.01  
115.806 AM. BP ME. Herschel & Kline

103.97 = old City Elev.

0.227 diff  
Swifty Girard & Kline

100.510 = USGS. DAT.

6.119

94.391 USC&G " Stand. dist. # 61 1927 1st order leveling

0.09 High

Bank of Am. Bldg. Prospect & Girard

99.57 Contd. from p 21

CITY DAT.

T.P. #7 2.48 97.819 4.231 95.339

check to <sup>old</sup> City Brass Plug 3.423 94.396

T.P. #8 0.285 85.254 12.85 84.969

T.P. #9 0.301 72.665 12.89 72.364

T.P. #10 1.745 61.455 12.955 59.71

T.P. #11 1.828 51.314 11.969 49.486

check to BMBP in 26 4.068 47.246

check New City Con. Man. 6.152 45.162 ↓

9407 = <sup>old City</sup> Flex. Sely Prospect + Girard <sup>in curb, on Bank of</sup> Rd. Co.

47390 = Walker 1930

47.246

~~2.144 error~~

Swly Coast Blvd + Girard

See P. 18

45.305

45.162

~~2.143 error~~

Swly " " " "

1' inside angle of sdw. in lawn of City Park



Check Levels at Mission  
Bay Causeway, So. Bridge

Stand.  
Disk #1 1934 4.791 12.747 7.956

check to Brass Plug 4.986 7.761 7.745  
0.016

Reductions Checked.  
Pg. 1423  
1-1-93

Moore  
1-8-40.

indexed  
c.s.k.

1<sup>st</sup> order leveling

Tidal 1. at S.D. S.D.Co. Mission Bay Causeway

about 100' N of N abut. of S. Bridge

Top of F.Curb. Stand disk stamped

"No. 1 1934" V.S.C. & G.

B.M. (City of S.D.) at M.B. Causeway at S.

Bridge. Top of N.E. wing wall.  $\frac{1}{2}$ " B.P.

See 1423-8

USC & G. = 10.777

7.956

Level only check

7.761

0.195 dif.

Rod 5.000

" 4.805

0.195 dif.

Cross Section Hilltop Drive From  
 47th St to Euclid Ave.  
 Levels next page

49

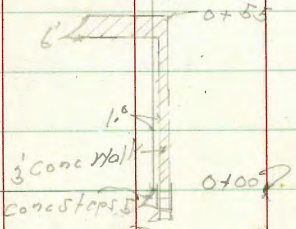
Lot 28 Ex. Mission boards  
 of Jan 21 1890

Proposed  
 Hilltop Drive

12+93.50

13+07

30' x 30'



47th St

PAVING

Indexed  
 C.S.K.

Jan. 19-44  
 Simon  
 Bliss  
 Osborne

24

Euclid Ave.

Ed. Lot

26+08.63

25+78.32

Proposed  
 Hilltop Drive

x x x x 123 19+57

3 wire fences

x x x x 130 16+28

40' x 40'

Cross Section Proposed Hilltop Drive  
47th St to Euclid Ave

1+14 24' Lt of  $\frac{1}{2}$  -  $\frac{1}{2}$  4" Pepper Tree ✓  
 1+0  
 0+99 24' Lt of  $\frac{1}{2}$  -  $\frac{1}{2}$  4" Pepper Tree ✓  
 0+81 24' Lt of  $\frac{1}{2}$  -  $\frac{1}{2}$  4" Pepper Tree ✓  
 0+69 24' Lt of  $\frac{1}{2}$  -  $\frac{1}{2}$  12" Pepper Tree ✓  
 0+55 = Fly of Conc Walk on Lt  
 0+39 24' Lt of  $\frac{1}{2}$  -  $\frac{1}{2}$  5" Pepper Tree ✓  
 0+22 24' Lt of  $\frac{1}{2}$  -  $\frac{1}{2}$  6" Pepper Tree ✓  
 0+07 24' Lt of  $\frac{1}{2}$  -  $\frac{1}{2}$  6" Pepper Tree ✓  
 0+0 = F.L. 47th St  
 0-1 28' Rt of  $\frac{1}{2}$  - Sky Tel Pole ✓  
 0-12  
 0-20 = East Edge of paving on 47th St

Notes Reduced & Plotted 1-26-1944 C.B.H.

BM 5.88 192.69 186.81  
 8' Lat Hilltop & 47th St

Jan. 20. 44  
 515507  
 81153  
 256000

St. N	Z	Rt. 25	25
1897.6	187.4	187.1	185.7
187.4	185.8	185.1	185.3
57/40	56/30	56/17.5	70/10
189.97	189.43	189.43	188.7
292/10	526/30	526/26.5	46/17.5
189.8	189.3	189.30	188.4
2.9/10	24/30	239/26.5	4.4/17.5
186.5	186.5	186.4	186.4
6.4/40	6.2/30	6.2/17.5	6.2/10
186.5	186.5	186.4	186.3
6.4/40	6.2/30	6.2/17.5	6.2/10
187.01	186.76	186.4	186.0
5.18/30	5.93	6.25/30	186.44
			192.69

2+45

2+40 = opp Existing 24" Wood Stave Culvert on Rt

2+36 = Opp Existing 24" Wood Stave Culvert on Lt

2+25

2+0

1+80 24 Rt = Sly Parrot Pole

TP 0.76 180.91 12.54 180.15

1+50

192.69

Lt	L	Rt
176.5 5.4 50	172.5 8.4 50	174.0 6.9 17.5
174.3 6.6 7	173.6 7.2 7	171.6 9.3 10
		167.8 13.1 17.5
		166.5 14.4 50
		164.1 16.2 50
	169.46	166.81
	17.45 28 Stave Coll	14.10 15 Flywheel Outlet Stave Coll
173.8 2.1 50	171.0 9.9 50	174.3 6.6 17.5
		174.3 6.4 7
		174.2 6.7 7
		171.5 9.9 10
		167.4 12.5 17.5
		169.1 14.8 50
		168.2 13.2 50
174.3 6.6 50	174.1 8.8 50	175.6 5.3 17.5
		175.6 5.3 17.5
		175.2 5.7 10
		174.8 6.1 17.5
		174.4 6.5 50
		174.6 6.3 40
180.4 9.5 40	179.7 1.3 50	177.8 3.1 17.5
		177.3 3.6 10
		179.4 3.5 10
		177.4 3.5 17.5
		178.8 3.1 50
		178.2 3.7 50
		177.7 3.2 40
		180.91
184.2 8.5 40	183.6 9.1 50	181.9 10.8 17.5
		180.9 11.8 10
		181.2 11.5 10
		180.7 12.0 17.5
		182.3 10.1 50
		182.0 10.7 36
		181.3 11.4 40
		192.69

4162 2A Rt of L = Sly Power x Tel. Pole

4+50

4+0

2+50

TP 11.75 191.71 0.95 179.96

2+25

2+21 2A Rt of L = Sly Power x Tel. Pole

2+0

2+65

180.91

Δ

Δ

Rt

1877 1873 1867 1862 1860 1856 1864 1862  
 $\frac{70}{10}$   $\frac{70}{30}$   $\frac{50}{17.5}$   $\frac{55}{10}$   $\frac{57}{10}$   $\frac{79}{17.5}$   $\frac{50}{30}$   $\frac{55}{50}$

1850 1848 1841 1837 1835 1839 1842 1838  
 $\frac{67}{10}$   $\frac{69}{30}$   $\frac{76}{17.5}$   $\frac{80}{10}$   $\frac{82}{10}$   $\frac{78}{17.5}$   $\frac{75}{30}$   $\frac{79}{10}$

1843 1836 1807 1803 1800 1808 1819 1818  
 $\frac{74}{10}$   $\frac{81}{30}$   $\frac{110}{17.5}$   $\frac{114}{10}$   $\frac{117}{10}$   $\frac{109}{17.5}$   $\frac{98}{30}$   $\frac{99}{10}$

191.71

1838 1819 1796 1781 1778 1778 1796 1800  
 $\frac{72.9}{10}$   $\frac{760}{30}$   $\frac{830}{17.5}$   $\frac{28}{10}$   $\frac{81}{10}$   $\frac{81}{17.5}$   $\frac{100}{30}$   $\frac{99}{10}$

1797 1783 1764 1767 1759 1757 1753 1756 1759  
 $\frac{17}{10}$   $\frac{26}{30}$   $\frac{45}{25}$   $\frac{42}{17.5}$   $\frac{150}{10}$   $\frac{52}{10}$   $\frac{56}{17.5}$   $\frac{85.5}{30}$   $\frac{50}{10}$

1713 1761 1738 1745 1746 1744 1791 1704 1706 1697 1707  
 $\frac{81}{10}$   $\frac{48}{30}$   $\frac{75}{20}$   $\frac{64}{17.5}$   $\frac{63}{30}$   $\frac{65}{10}$   $\frac{78}{10}$   $\frac{105}{17.5}$   $\frac{103}{30}$   $\frac{112}{10}$   $\frac{102}{50}$

180.91

7750

TP 157 186.01 727 184.44

7740 25° RA of  $\Delta$  = Sly Pole + Tel. Pole

770

6750

6701 245° RA of  $\Delta$  = Sly Pole + Tel. Pole

670

5750

570

1917L

L

Z

RA

1650	1847	1844	1842	1831	1832	1834	1837	1833
10/40	13/30	16/17.5	18/7	29	28/10	26/17.5	25/30	27/40

18601

1870	1867	1862	1853	1853	1853	1854	1857
17/40	15/30	15.5/17.5	6.4	6.4/16	6.4/17.5	6.2/30	6.0/40

1886	1883	1878	1874	1873	1871	1873	1874
17/40	17/30	17.5/17.5	4.3	4.4/10	4.6/17.5	4.4/30	4.2/40

1907	1905	1897	1887	1888	1891	1895	1888
10/40	13/30	20/17.5	2.0	2.9/16	2.6/17.5	2.2/30	2.9/40

1908	1905	1902	1895	1895	1895	1898	1898
10/40	12/30	15/17.5	2.2	2.2/10	2.2/17.5	1.9/30	1.9/40

1904	1904	1900	1882	1882	1883	1884	1891
10/40	13/30	17/17.5	2.5	2.5/10	2.4/17.5	2.2/30	2.1/40

19171

10+50  
 TP 0.85 174.25 1261 17240

10+20 255 ft of L - Sly Pox + Tel. Pole  
 10+0

9+50

9+0

8+80 26 ft of L - Sly Pox + Tel. Pole

8+50

8+0

186.01

Lt S Rt

174.6 174.6 173.9 173.5 172.4 172.0 171.8 170.6 169.6  
 10.3 10.3 0.4 0.8 1.9 2.3 2.5 2.9 4.1  
 40 30 17.5 10 10 10 17.5 30 40

174.25

1760 175.7 175.1 173.8 173.4 173.1 171.6 171.0  
 100 10.3 10.9 12.2 12.6 12.9 14.1 15.0  
 40 30 17.5 10 10 17.5 30 40

177.1 177.0 177.3 176.8 175.5 175.0 175.0 174.3 174.1  
 8.9 9.0 8.7 9.2 10.5 11.0 11.0 11.9 11.9  
 40 30 17.5 8 10 10 17.5 30 40

1785 1782 1773 1766 1763 1761 1756 1752  
 7.5 7.8 8.7 9.4 9.7 9.9 10.5 10.8  
 40 30 17.5 10 10 17.5 30 40

179.6 179.2 1784 1780 1779 1774 1771 1766  
 6.4 6.8 7.6 8.0 8.1 8.2 8.9 9.4  
 40 30 17.5 10 10 17.5 30 40

181.2 180.7 179.5 180.4 180.3 180.3 180.0 179.8  
 4.8 5.3 6.2 5.4 5.7 5.7 6.0 6.3  
 40 30 17.5 10 10 17.5 30 40

186.01

12+53 = Existing 2" Steel Pipe Culvert  
 072 Mod  
 12+93.50

BY	2.14	148.80		
TP	2.18	151.94	13.06	149.46

13+0

12+97 270 RT of 1/2" = 5/4 Pave + Tel. Pole

12+50

12+0

TP 0.89 162.52 12.62 161.63

11+60 265 RT of 1/2" = 5/4 Pave + Tel. Pole

11+50

11+0

174.25

30

LT

1439	1432	1426	1418	14109	1457	1455	14002	139.9	140.1	139.9
80	87	9.3	10.1	10.85	6.3	6.4	11.92	12.0	11.8	11.8
70	70	30	17.5	17.5	10	10	17.5	30	40	30

Flow 4.17  
 0.41  
 20.5

151.94

1479	1484	149.1	148.5	1487	149.1	150.8	150.4	150.4
14.6	14.1	13.4	14.0	13.8	13.4	11.9	12.1	12.1
70	30	17.5	17.5	10	17.5	25	30	40

154.5	154.6	154.9	154.9	154.9	155.1	155.6	156.0
8.0	7.9	7.6	7.6	7.6	7.4	6.9	6.5
70	30	17.5	17.5	10	17.5	30	40

159.8	160.1	160.2	160.4	159.4	160.2	160.5	161.1	161.2
2.7	2.4	2.3	2.1	2.1	2.3	2.0	1.4	1.3
70	30	17.5	20.0	2	10	17.5	30	40

162.52

165.2	165.3	165.7	165.1	164.5	164.9	164.7	165.5	165.3
9.1	9.0	8.6	9.2	9.8	9.4	9.6	8.8	9.0
70	30	17.5	2	2	10	17.5	30	40

169.8	169.8	169.8	169.8	169.4	169.8	168.9	168.8	169.2	169.1
4.5	4.5	4.5	4.5	4.9	5.5	5.1	5.5	5.1	5.7
70	35	17.5	10	20.0	2	10	17.5	30	40

174.25



TP 10.46 170.84 0.60 160.38

15+50

15+0

14+50

14+37 270 Pt of  $\frac{1}{2}$  = Sky Posn + Tel Pole

14+25

TP 10.03 160.98 0.99 150.95

14+0

13+75

151.94

158.9 158.5 158.5 159.2 159.0 158.7 159.2 159.9  
 $\frac{2.1}{40}$   $\frac{2.5}{30}$   $\frac{2.5}{17.5}$  1.8  $\frac{2.0}{10}$   $\frac{2.0}{17.5}$   $\frac{1.8}{60}$   $\frac{1.1}{40}$

157.8 157.2 155.8 154.9 154.9 154.2 154.3 153.6 153.9  
 $\frac{6.0}{40}$   $\frac{3.8}{30}$   $\frac{5.2}{17.5}$   $\frac{6.1}{10}$   $\frac{6.1}{10}$   $\frac{6.8}{10}$   $\frac{6.7}{17.5}$   $\frac{7.4}{60}$   $\frac{7.1}{40}$

154.4 154.7 154.4 152.9 152.6 152.3 151.9 151.1 150.7  
 $\frac{6.6}{40}$   $\frac{6.0}{30}$   $\frac{6.6}{17.5}$   $\frac{8.1}{10}$   $\frac{8.4}{10}$   $\frac{8.7}{10}$   $\frac{9.1}{17.5}$   $\frac{9.9}{60}$   $\frac{10.0}{40}$

152.5 153.4 154.0 151.5 151.3 151.1 151.1 149.6 148.7  
 $\frac{8.5}{40}$   $\frac{7.6}{30}$   $\frac{7.0}{17.5}$   $\frac{9.5}{10}$   $\frac{9.7}{10}$   $\frac{9.9}{10}$   $\frac{9.9}{17.5}$   $\frac{11.4}{60}$   $\frac{12.0}{40}$

160.98

148.9 148.7 150.0 150.3 146.0 148.0 148.2 148.0 147.6 146.7 145.8  
 $\frac{5.0}{50}$   $\frac{8.2}{30}$   $\frac{1.9}{17.5}$   $\frac{1.5}{13}$   $\frac{8.9}{10}$   $\frac{8.9}{10}$   $\frac{8.7}{10}$   $\frac{8.9}{17.5}$   $\frac{4.0}{60}$   $\frac{5.2}{40}$   $\frac{6.1}{60}$

144.5 144.8 144.5 144.7 145.9 145.8 144.5 144.0 144.9 143.3  
 $\frac{3.8}{30}$   $\frac{7.1}{40}$   $\frac{7.4}{60}$   $\frac{7.7}{17.5}$   $\frac{6.0}{10}$   $\frac{6.1}{10}$   $\frac{7.4}{17.5}$   $\frac{7.8}{60}$   $\frac{7.0}{40}$   $\frac{8.0}{60}$

151.94

507.21.43

Lt.

S

Rt

32

18+62 28' Rt of  $\frac{1}{2}$  - Sly Post + Tel Pole

18+50

164.1	164.3	164.5	165.2	166.2	166.8	167.1	167.5
100 40	98 30	96 17.5	89	79 10	72 17.5	70 30	66 40

18+0

166.4	166.3	166.8	167.3	168.0	168.3	168.8	164.1
77 40	78 30	73 17.5	68	61 10	58 17.5	50 30	50 40

17+50

167.3	167.8	169.7	169.8	170.1	170.0	170.5	171.0
68 40	63 30	44 17.5	43	40 10	41 17.5	36 30	31 40

17+22 27.5' Rt of  $\frac{1}{2}$  - Sly Post + Tel Pole

17+0

167.1	168.2	168.8	168.8	169.9	171.0	172.0	171.1
70 40	59 30	53 17.5	53	48 10	31 17.5	31 30	30 40

TP

3.98

174.05

0.77

170.07

Hail in Fence Post  
67.76+45

174.05

16+50

164.5	165.1	165.4	166.6	166.4	167.9	168.1	169.9	168.8
63 40	57 30	50 17.5	42 10	44	29 10	27 17.5	29 30	20 40

16+0

161.8	162.0	162.9	163.5	165.3	165.5	164.9	164.5	165.3
90 40	88 30	79 17.5	78	55 10	53	59 17.5	55 30	55 40

15+80 29' Rt of  $\frac{1}{2}$  - Sly Post + Tel Pole

170.84

170.84

20+50

20+25

20+0

19+91 27.5 ft of 2 = Sly Point + Top Pole

19+75

TP 1.82 162.81 12.06 160.99

19+50

19+0

174.05

4t. 2 Rt.

162.0 161.2 159.6 157.5 155.6 153.8 150.7 147.3 150.4  
 0.8/40 1.6/30 3.2/17.5 5.3/10 7.7/17.5 9.6/30 12.1/30 15.5/45 12.4/30

161.7 160.4 158.3 157.4 154.3 152.8 150.0 153.6  
 1.1/40 2.4/30 4.5/17.5 6.4/10 8.5/17.5 10.0/30 12.8/30 9.2/30

160.8 159.5 157.1 153.9 151.9 151.3 153.3 155.4 157.1  
 2.0/40 3.8/30 5.7/17.5 8.9/10 10.9/17.5 10.5/25 9.5/30 7.4/30 5.7/30

159.3 158.1 155.5 154.4 155.7 157.0 156.9 157.3 159.1 157.6  
 3.5/40 4.4/30 7.3/17.5 8.4/10 7.1/10 5.8/17.5 5.9/30 5.5/30 3.7/40 5.2/30

162.81

158.3 157.5 155.8 157.0 157.6 158.9 159.1 160.3 162.2  
 15.8/40 16.6/30 18.3/17.5 17.1/10 16.5/10 15.2/10 15.0/17.5 15.8/30 11.9/40

161.0 160.3 161.2 162.4 163.1 163.0 164.2 167.3  
 13.1/40 13.8/30 12.9/17.5 11.7/10 11.0/10 11.1/17.5 9.9/30 6.8/40

174.05

22+76 29° Pt of  $\frac{1}{2}$  Sky Pos. & TEL Pol

22+50

22+0

21+50

TP 6.03 166.43 2.41 160.40

21+33 28° Pt of  $\frac{1}{2}$  Sky Pos. & TEL Pol

21+25

21+0

20+75

162.81

Δt.

Δ

Pt

34

160.9	161.0	160.8	160.5	160.4	160.2	159.7	159.3
$\frac{5.5}{40}$	$\frac{5.4}{30}$	$\frac{5.6}{17.5}$	$\frac{5.9}{10}$	$\frac{6.0}{10}$	$\frac{6.2}{17.5}$	$\frac{6.7}{30}$	$\frac{7.1}{40}$

161.9	161.8	161.9	162.0	161.7	161.4	161.0	160.5
$\frac{4.5}{40}$	$\frac{4.6}{30}$	$\frac{4.5}{17.5}$	$\frac{4.4}{10}$	$\frac{4.7}{10}$	$\frac{5.0}{17.5}$	$\frac{5.4}{30}$	$\frac{5.9}{40}$

162.7	162.8	161.4	161.6	162.1	162.0	161.6	161.4
$\frac{5.7}{40}$	$\frac{5.6}{30}$	$\frac{5.0}{17.5}$	$\frac{4.8}{10}$	$\frac{4.6}{10}$	$\frac{4.4}{17.5}$	$\frac{4.8}{30}$	$\frac{4.8}{40}$

166.43

163.1	162.9	161.4	161.2	161.1	160.6	159.4	158.1	156.2
$\frac{7.3}{40}$	$\frac{7.0}{30}$	$\frac{1.4}{17.5}$	$\frac{1.6}{10}$	$\frac{1.7}{10}$	$\frac{2.3}{17.5}$	$\frac{2.1}{30}$	$\frac{4.7}{45}$	$\frac{5.6}{80}$

161.1	159.7	158.4	159.0	158.0	156.7	155.5	153.6	151.0
$\frac{1.7}{40}$	$\frac{3.1}{30}$	$\frac{4.4}{17.5}$	$\frac{3.6}{10}$	$\frac{4.8}{10}$	$\frac{6.1}{17.5}$	$\frac{7.2}{30}$	$\frac{9.2}{45}$	$\frac{11.8}{80}$

162.0	161.4	159.4	155.5	153.1	151.9	151.2	149.8	145.6
$\frac{0.8}{40}$	$\frac{1.6}{30}$	$\frac{3.6}{17.5}$	$\frac{7.3}{10}$	$\frac{9.7}{10}$	$\frac{10.9}{17.5}$	$\frac{11.6}{30}$	$\frac{13.0}{45}$	$\frac{17.2}{80}$

162.81

24+0

137.6

6.3  
70

23+75

TP

1.18

143.94

12.47

142.76

23+50

23+25

TP

1.46

155.23

12.66

153.77

23+0

22+85

166.43

Lt

S

Rt

136.7 134.5 138.6 138.4 137.7 136.7 135.9 135.4 134.4 133.3 131.4 134.4 135.0

7.2 9.4 5.2 5.5 6.2 7.2 8.0 8.5 9.5 10.6 12.5 9.5 8.9  
5.5 4.6 7.0 3.0 17.5 0.0 7.0 17.5 3.0 4.0 7.6 5.3 7.0

142.7 143.0 142.5 142.0 140.5 139.0 136.9 133.2 130.8

1.3 0.7 1.1 1.9 5.4 4.9 7.0 10.7 13.1  
8.0 3.0 17.5 7.0 17.5 3.0 6.0 7.0 3.0

143.94

149.8 150.6 150.2 149.1 148.3 146.9 145.1 140.8

5.4 4.6 5.0 6.1 6.9 8.3 10.1 14.4  
8.0 3.0 17.5 7.0 17.5 3.0 6.0

154.8 155.0 154.9 154.5 153.3 152.0 151.5 150.1

0.4 0.2 0.3 0.7 1.9 3.0 3.7 4.5  
7.0 3.0 17.5 7.0 17.5 3.0 3.0

155.23

160.3 159.8 160.0 158.9 157.2 156.4 156.2 156.4

3.0 6.6 4.4 7.5 9.2 10.0 10.2 10.0  
7.0 3.0 17.5 7.0 17.5 3.0 3.0

160.6 160.2 160.6 159.8 159.3 159.5 159.6 158.9

5.8 6.9 7.0 7.6 7.9 8.8 7.5  
7.0 3.0 17.5 3.0 3.0

166.43

25+50

25+0

24+90

24+75

TP 12.39 167.35 0.94 154.96

24+50

TP 12.74 155.90 0.98 143.16

24+41 30 Rt of A = 54

24+30

14394

162.9	162.5	162.2	162.7	163.7	163.7	163.2	162.5
4.5	4.9	5.2	4.7	5.7	5.7	5.2	4.9
30	30	17.5	10	10	17.5	30	10

160.8	160.5	162.0	161.8	161.4	161.5	161.2	161.3
5.6	6.9	5.4	5.6	6.0	5.0	6.2	6.1
30	30	17.5	10	10	17.5	30	10

159.6	157.7	159.3	161.2	161.1	160.7	160.9	160.8	161.0
7.8	9.7	8.1	6.2	6.3	6.7	6.5	6.6	6.4
7.5	30	30	17.5	10	10	17.5	30	10

154.5	153.4	152.4	154.6	155.0	154.8	155.3	155.8	161.6
12.9	14.0	14.0	12.8	12.4	12.6	12.1	11.5	9.8
30	35	30	17.5	10	10	17.5	30	30

167.35

147.5	144.1	145.4	147.8	147.1	147.7	148.6	150.7
8.4	11.8	10.5	8.1	8.8	8.2	7.8	5.2
30	30	17.5	10	10	17.5	30	30

155.90

138.7	134.9	133.8	133.8	135.4	136.8	137.9	142.2	144.3	145.6
5.2	9.0	10.1	10.1	10.5	9.1	9.0	17	10.4	11.7
30	30	25	17.5	10	10	17.5	30	10	30

14394

Lt Lt Pt

3

26708.63 = 1/2 Euclid Spc Field Book # 1612-29 For  
Cross Section of Paving Strip Hilltop + Euclid

BM 7.25 160.10 Lt T Hilltop  
F10 Line Euclid  
160.07  
1612-26

25493  
25487 8' Pt. of 1/2 = 1/2 1 1/2" Water Meter

25485  
25484 36' Pt. of 1/2 = 1/2 1/4" Box + Trl Pole

25478.63 = 1/2 Line of Euclid

167.35

161.0 160.8 160.6 160.2 159.9 159.7 159.4 159.0  
6.4 6.6 6.8 7.2 7.5 7.7 8.0 8.4  
40 30 17.5 10 17.5 30 30

163.2 163.4 163.0 163.2 162.3 162.0 162.1 162.2  
4.2 4.0 4.4 4.2 5.1 5.4 5.3 5.2  
40 30 17.5 10 17.5 30 40

164.2 164.5 163.1 163.0 162.4 162.0 162.1 162.5  
5.7 5.9 4.3 4.4 5.0 5.4 5.3 4.9  
40 30 17.5 10 17.5 30 40

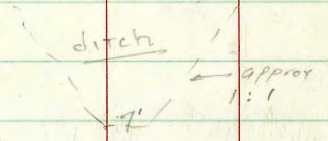
167.55

Survey & Levels for Tennis Courts

CD Moore  
Sommers Meyer  
W. Moore  
3-13-44.

S 90' Lot 7 211 8-9-10-11 and  
Nly 1/4 of Ravenna St including  
Wly 1/4 " alley in closed Ravenna St

Ely Draper - 2000 Baseline for levels  
Nly of Plot - " " " "



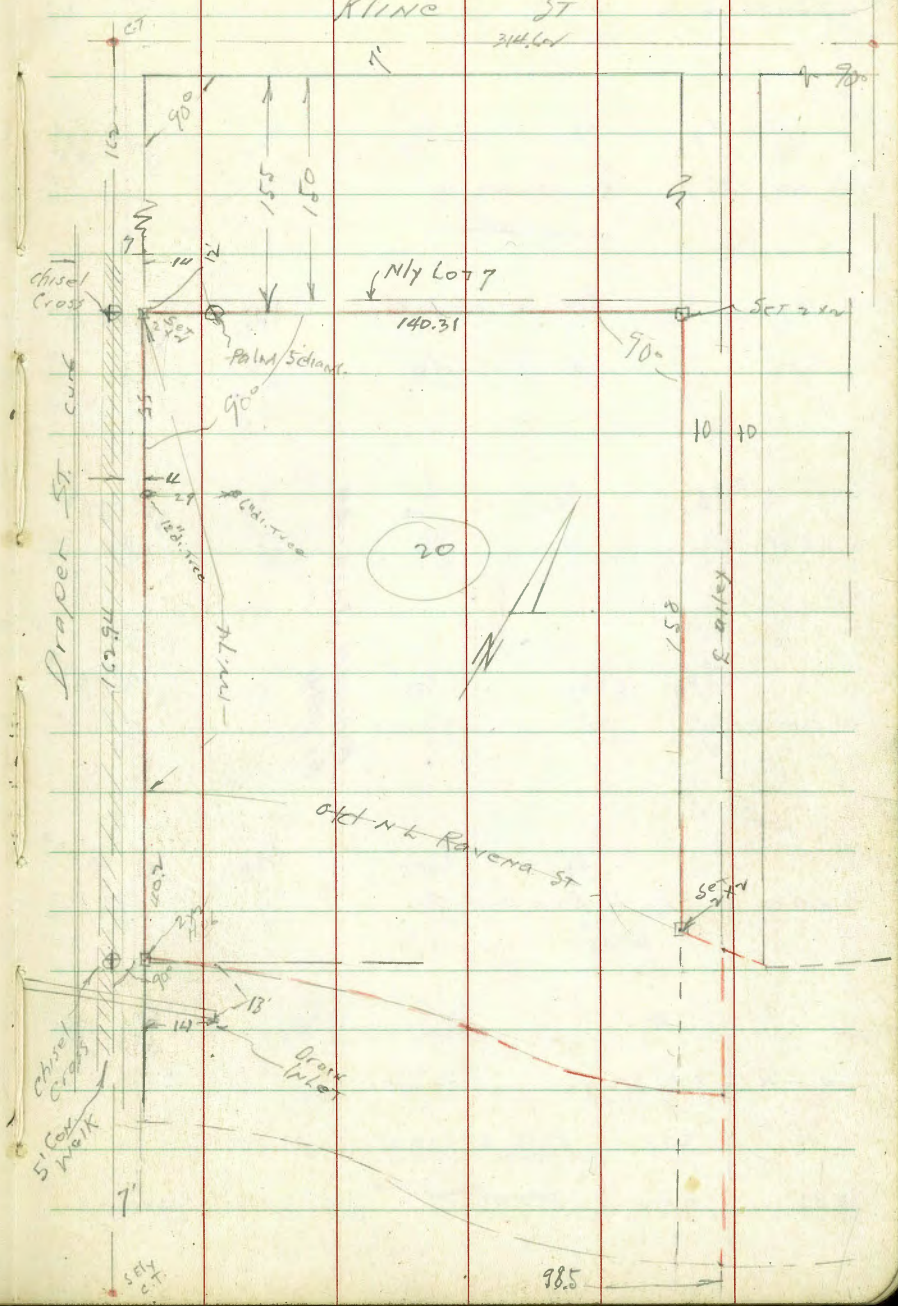
Conc. Box drain

Indexed  
e.s.k.

KLINE

ST

314.60



98.5



N/2 of Plot - Baseline

1+40.31 w/ alley

1+30 Rainings

1+00 Please check to Profile

0+50

0+14

0+00 - Ely of Draper St.

0-4 = Ely edge 5' sidewalk

I.P. 5.38 81.18 10.00 75.80  
 SEBR 0.42 80.06 86.04 Kling + Draper

Reduced 3-14-44 by CBK

79.5  
 $\frac{1.4}{50}$   
 79.0  
 $\frac{2.2}{75}$

80.2  
 $\frac{1.0}{75}$   
 79.7  
 $\frac{1.5}{75}$

80.4  
 $\frac{0.8}{75}$   
 79.8  
 $\frac{1.4}{75}$

80.4  
 $\frac{2.8}{75}$   
 78.6  
 $\frac{2.6}{75}$

79.7  
 $\frac{1.5}{75}$   
 77.9  
 $\frac{2.3}{75}$

79.1  
 $\frac{2.1}{75}$   
 77.9  
 $\frac{3.3}{75}$

78.43  
 $\frac{1.75}{75}$   
 77.33  
 $\frac{3.25}{75}$

75.5  
 $\frac{5.7}{50}$

77.6  
 $\frac{3.6}{50}$

77.9  
 $\frac{3.3}{50}$

77.4  
 $\frac{3.7}{50}$

76.6  
 $\frac{4.0}{50}$

76.5  
 $\frac{4.7}{50}$

75.95  
 $\frac{5.83}{50}$

74.2  
 $\frac{7.0}{100}$

76.6  
 $\frac{4.0}{100}$

76.6  
 $\frac{4.0}{100}$

76.0  
 $\frac{5.2}{100}$

75.4  
 $\frac{6.0}{100}$

74.7  
 $\frac{6.5}{100}$

73.25  
 $\frac{7.93}{100}$

P.T. = 73.5  
 $\frac{7.7}{100}$

75.8  
 $\frac{5.4}{100}$

75.9  
 $\frac{5.3}{100}$

75.4  
 $\frac{5.8}{100}$

74.8  
 $\frac{6.4}{100}$

74.1  
 $\frac{7.1}{100}$

71.73  
 $\frac{9.45}{100}$

74.3  
 $\frac{6.9}{103}$

74.5  
 $\frac{6.7}{103}$

75.8  
 $\frac{5.2}{108}$

74.7  
 $\frac{6.5}{108}$

74.5  
 $\frac{6.7}{105}$

73.4  
 $\frac{7.8}{102.92}$

71.50  
 $\frac{9.68}{102.92}$

73.0  
 $\frac{8.4}{175}$

72.2  
 $\frac{9.0}{175}$

73.2  
 $\frac{8.0}{173}$

64.1  
 $\frac{14.5}{180}$

69.2  
 $\frac{12.0}{170}$

Top of wall

FL

65.39  
 $\frac{15.7}{182}$   
 ↑ Mid-ditch  
 $\frac{16.0}{182}$   
 ↓

Levels on Evergreen  
Lowell to Ingelore  
to Re-establish curb grades

C.S.M.  
SITTING  
WENT  
3-22-44

N.W. 1/4		✓			Rosecrans
8 P.M. ob.	9.29	17.68		8.39	Howell
T.P.	5.98	22.24	0.14	17.06	
T.P.	10.69	22.88	4.85	18.19	
Fd. B.M. B.P. ob.		✓			Evergreen
Sly Cor. TP.	8.10	33.48	3.50	25.38	Lowell 25.30

E.L. Top of Sly Ret. Evergreen + Lowell

BC on Lowell 100		8.13		25.35	
+13.5		7.70		25.72	
+27		7.39		26.09	

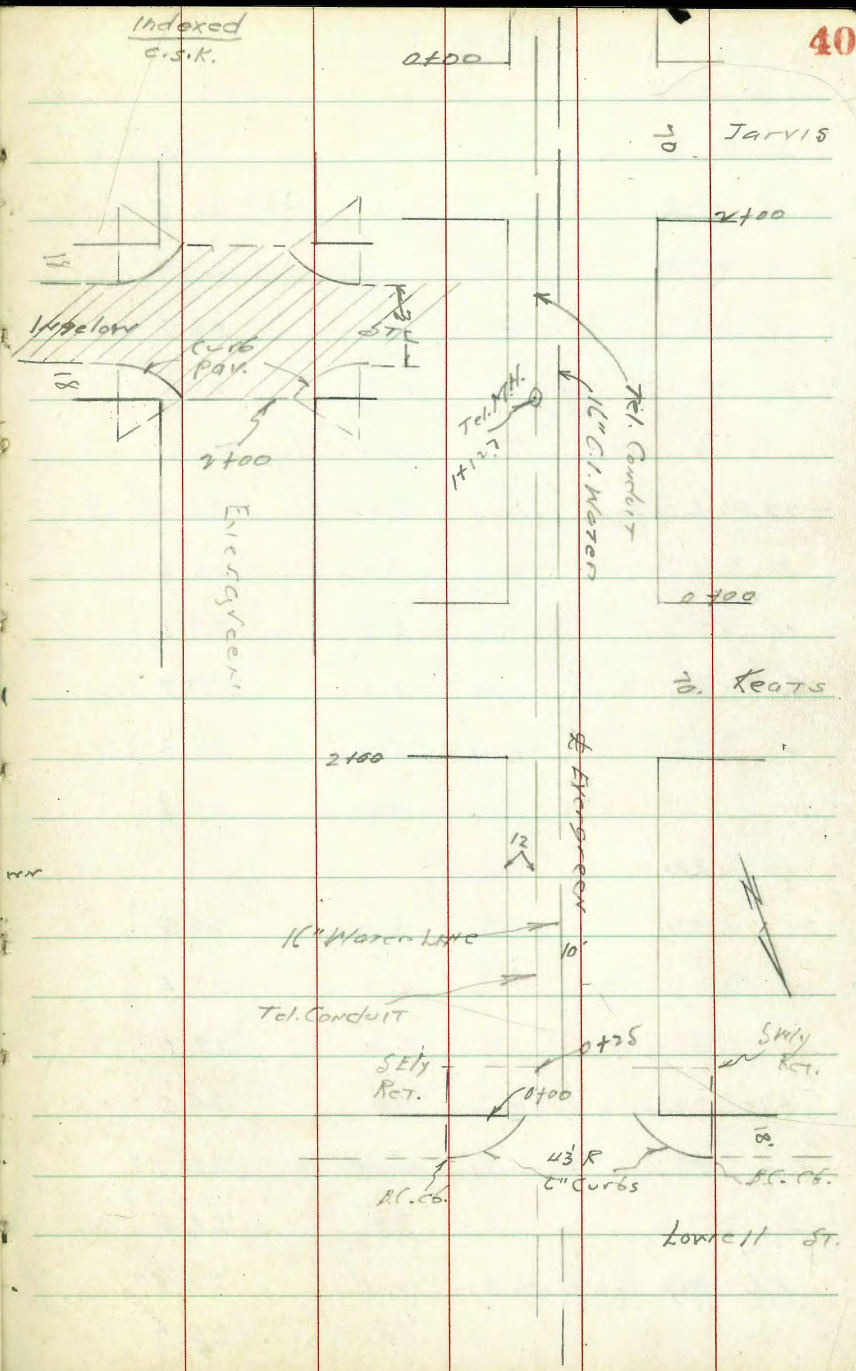
+40.5 SL Lowell end curb 7x3 26.05 This might be the break do not

E.L. Top of Sly Ret. Evergreen + Lowell

BC on Lowell		4.37		29.16	
+13.5		5.31		28.17	
+27		5.99		27.49	
+40.5 SL Lowell end curb		6.39		27.09	

0+00 = Sly Lowell

Reduced & Plotted  
on Profile #1135  
3/27-1944



0+25

W	2.5	30.0
cb	4.6	28.9
C	5.8	27.7
cb	5.8	28.1
E	6.0	27.5

0+60.5

-97 ft da. gas. con. Hood	7.07	26.41 ✓
E	7.1	26.4
cb	6.5	27.0
C	5.8	27.7
cb	5.4	28.3
W	4.1	29.4

1+00

W	5.0	28.5
cb	6.0	27.5
C	6.4	27.1
+10 ground	6.9	26.6
+ " Tap 16" Water pipe	10.65	22.82
cb	7.0	26.5
+ 6 Tap Tel. Conduit	10.61	22.87
E	7.8	25.7

1+50

E	9.1	24.4
cb	8.8	25.1
C	7.6	25.9
cb	6.9	26.6
W	6.2	27.3

1+75

W	7.4	26.3
cb	8.0	25.5
C	8.3	25.2
cb	8.9	24.6
E	9.9	23.6

2+00 = Nly Rears

E	10.3	23.2
cb	9.7	23.8
C	8.9	24.6
cb	8.5	25.0
W	8.0	25.5

Nly, cb Rears

W	8.4	25.3
cb	9.1	24.4

33.48

c	9.1	23.9
cb	9.1	23.9
F	11.0	22.5

E Keats

F	11.5	22.0
cb	10.8	22.7
c	10.3	23.2
cb	9.4	24.1
W	8.3	25.2

+10

16 Fly 9 Evergreen	13.48	20.00	Top 1" <sup>Water</sup> Line.
--------------------	-------	-------	-------------------------------

S cb

W	9.0	24.5
cb	10.2	23.2
c	11.1	22.4
cb	11.8	21.7
F	12.3	21.2

1/2 Keats = 0.100

F	12.3	20.7
cb	11.9	21.6
c	11.3	22.2

33.48

42

c		10.4	23.1
W		9.4	24.1

T.P.	5.86	<u>28.09</u>	11.25	<u>22.23</u>	Spike P.P. SEly Cor. Evergreen Keats
------	------	--------------	-------	--------------	---

0.175

W		3.8	24.3
cb		5.4	22.7
c		6.5	21.6
cb		7.0	21.1
F		7.7	20.4

0.150

F		8.3	19.6
cb		7.6	20.5
c		7.1	21.0
cb		5.6	22.5
W		3.7	24.4

1.100

W		4.1	24.0
cb		5.4	22.7
c		7.4	20.7

cb		7.9	20.2
E		8.8	19.3
	1 + 12.7		
E + 12	Top Tel. MH RIM	7.96	20.13
"	Top Tel. Cond.	10.95	17.13
"	Bot. <sup>Top</sup> M.H.	15.36	12.73
*E + 25	Top 11" Waterline	10.00	18.09
	1 + 31		
F		8.7	19.4
E - 1.5	edge 4" x 15.5" Apron CON.	8.73	19.36
E - 5.5	u. do. gate 15.5" down	8.73	19.36
	1 + 50		
F		8.8	19.3
cb		7.5	20.6
C		6.2	21.9
cb		5.0	23.1
W		3.6	24.5
	1 + 75		
W		3.6	24.5
cb		4.4	23.7
C		5.4	22.7

cb		6.1	22.0
E		8.3	19.8
	2 + 100 H/y Jarvis		
E		7.1	21.0
cb		5.4	22.7
C		5.0	23.1
cb		4.1	24.0
W		3.4	24.7
	4 cb Jarvis		
W		3.1	25.0
cb		4.0	24.1
C		4.6	23.5
cb		5.1	23.0
E		6.2	21.9
	9 Jarvis		
E		5.7	22.4
cb		4.7	23.4
C		4.0	24.1
cb		3.6	24.5
W		3.1	25.0

E Jarvis + S

h1	2.3	25.8
cb	5.0	23.1
c	3.6	24.5
cb	4.2	23.9
F	5.4	22.7

5 cb Jarvis = Storm ditch

E	7.9	20.2
+ 1x Top Tel. Cand.	7.5	20.6
cb	6.6	21.5

Tel + 7 Top 10 "Water line"

c	5.7	22.4
cb	5.3	22.8
W	4.8	23.3

S + 6'

W	7.4	25.7
cb	3.8	24.3
c	3.9	24.2
cb	4.3	23.8
F	5.4	22.7

Sly Jarvis = 2700

E	4.9	23.2
cb	3.9	24.2
c	3.3	24.8
cb	3.0	25.1
W	2.0	26.1

T.P. 8 pike  
P.P. Sly Con

10.44 30.63 7.90 20.19 20.24

0 + 5

W	3.6	27.0
cb	4.7	25.9
c	5.5	25.1
cb	6.1	24.5
E	6.8	23.8

0 + 50

F	6.9	23.7
cb	6.0	24.6
c	5.3	25.3
cb	4.8	25.8
W	3.6	27.0

	1400		
W		3.3	27.3
cb		4.1	26.5
C		4.5	26.1
cb		4.0	26.0
E		5.3	25.3
	1+10		
W - 4.5 E do. Garage		2.64	27.99
			Con. floor 10' inside
W on con apron		3.01	27.62
W + 1.5 E con apron		3.37	27.31
			apron level
	1+50		
E		5.3	25.3
cb		4.3	26.3
C		4.0	26.6
cb		3.5	27.1
W		2.9	27.7
	1+79		
W - 4.4 E SW Garage		1.59	29.04
			Con. floor
W - 0.4 E apron		2.07	28.61
			" apron
cb		3.6	27.0
C		4.4	26.2

cb		4.5	26.1
E		5.1	25.5
			also My Ingleton
E		6.3	24.3
	Top +10' cb end	6.25	24.38
	" gut Pav	6.76	23.87
C Pav.		5.26	24.87
+25 gut pav		5.12	25.51
" Top cb end		4.52	25.99
W		4.3	26.3
	Levels on walks & drives on Jarvis		
	Locust to Evergreen		
			indexed ask
	spike TP PP 0.83	21.02	10.44 20.19 = 9.60
			P. 44
			B.M.
	Wily Locust 50+00		
N ground		9.7	11.3
		0+16.5	
N & 3' con. walk		9.22	11.80
		0+42	
N & con. ribbon drive		8.51	12.51

Plotted Profile #1709

0+60		
N E do. ribbon drive	8.40	12.62
0+79.5		
N E 3' Con. walk	7.55	13.47
1+17		
N E 3' Con. walk	6.63	14.39
1+41		
N E do. Con. ribbon drive	5.96	15.06
1+44		
S - 15 E S.W. gar	4.60	16.42
		Con. floor
1+60		
N E do. <sup>25</sup> ribbon Con. do.	5.49	15.53
1+79.5		
N E 3' Con. walk	5.26	15.76
2+16.5		
N E 3' Con. walk	4.26	16.76
2+42		
N E do. <sup>Rib.</sup> 25' Con. drive	3.63	17.39
2+67		
N E 3' Con. walk	2.31	18.71



Levels on walks drives etc on  
Keats St.

Indexed  
C.S.K.

Locust to Evergreen

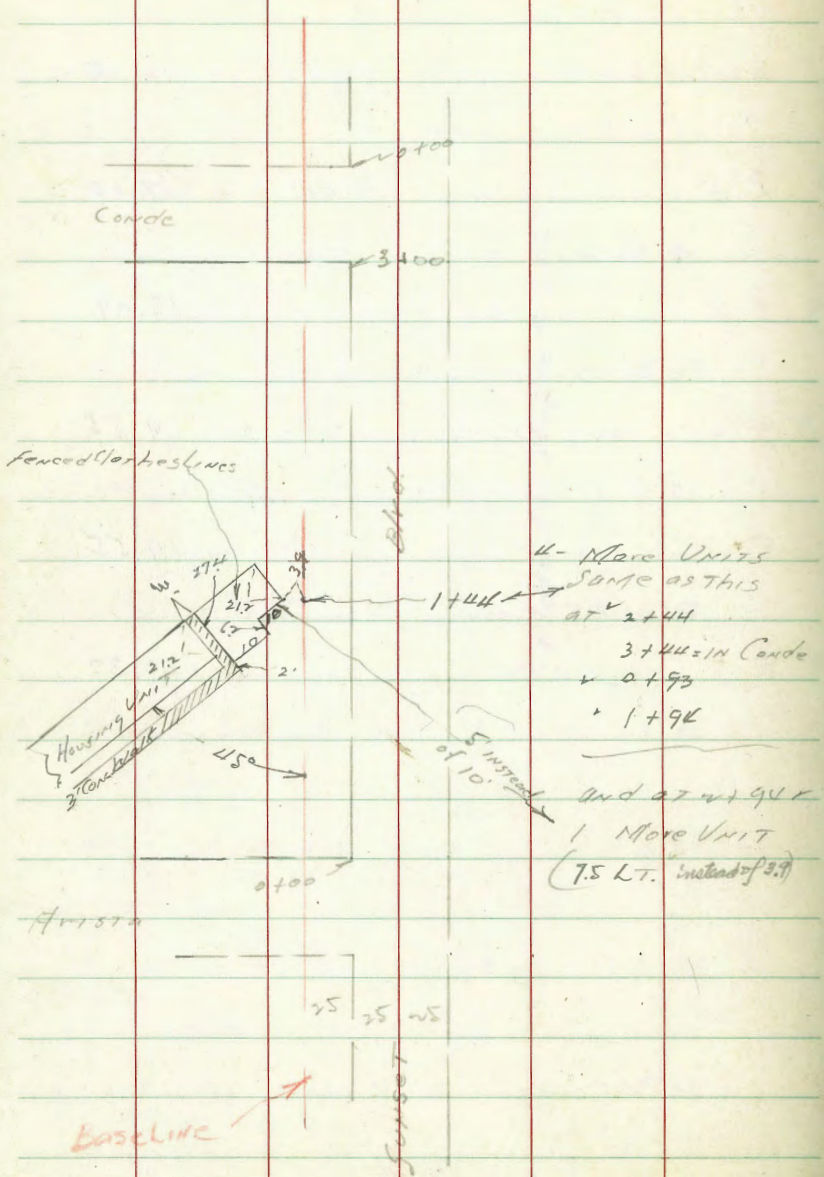
B19 Spike	2.75	24.98	22.23	P.V.V
0 + 00 N/W Locust				
S on ground	12.6		12.4	
0 + 15				
S E 3' Con. Walk	12.42		12.56	
0 + 41.5				
S E of 7' Con. drive	11.87		13.11	
0 + 49.7				
S Top 8" Con. Pet. Wall	11.40		13.58	
0 + 57.2				
S E da. con. Rib drive	11.82		13.16	
0 + 84				
S E 3' Con. Walk	11.11		13.87	
1 + 16				
S E 3' Con. Walk	10.08		14.90	
1 + 43				
S E 2' Con. Rib. drive	9.31		15.67	

Plotted on Profile # 2426

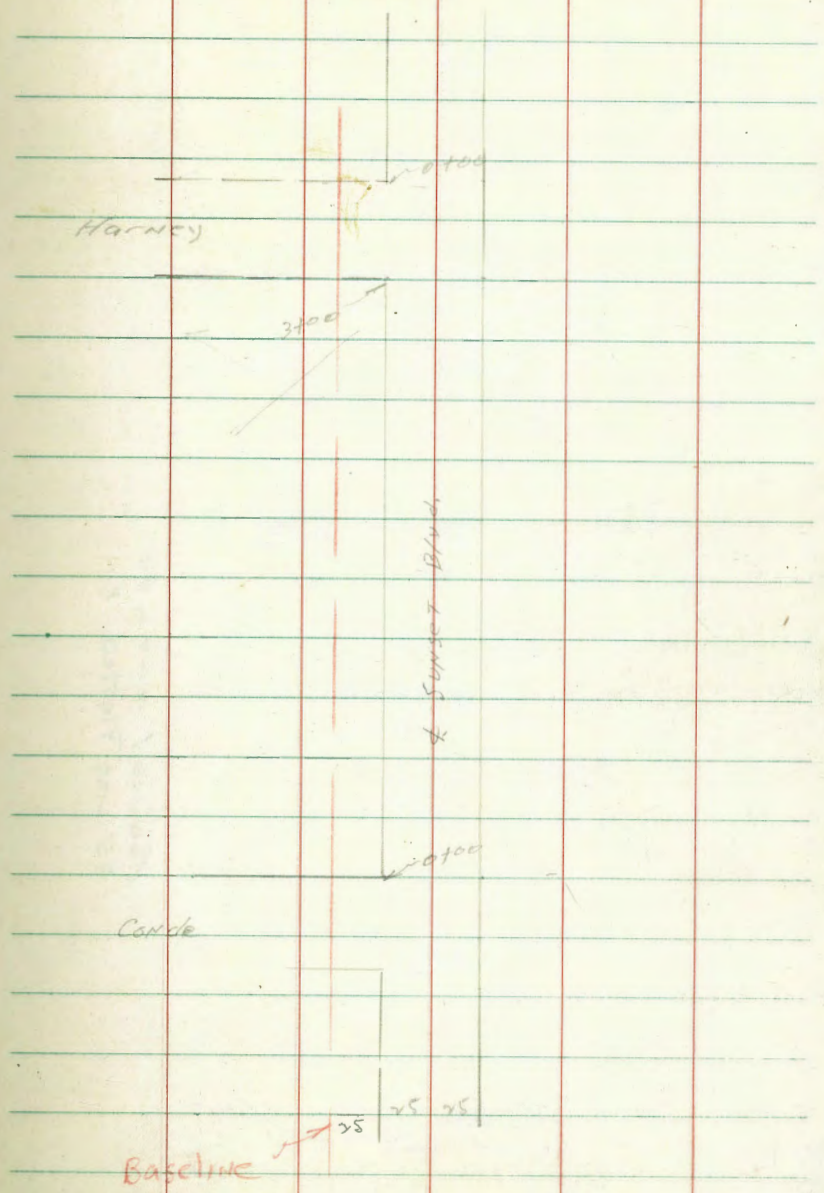
24.98

1 + 57.3			
S E da. 2' Con. Rib drive	8.94		16.04
1 + 84			
S E 3' Con. Walk	7.88		17.10
2 + 16			
S E 3' Con. walk	6.79		18.09
2 + 43			
S E 2' Con. Rib. drive	5.43		19.55
2 + 57			
S E 2' Con. Rib. drive	5.43		19.55
2 + 85			
S E 3' Con. walk	4.61		20.37

Levels on Excavation on  
 Sunset Blvd. Frisita to Harney 4-3-44



Indexed  
 C.S.K.



0-25

T.P. 001 136.50 12.86 136.49

0-100 W.L. CRISTA

0-7

T.P. 1.84 149.35 12.84 147.53

0-11

0-25 = E CRISTA ST.

T.P. 018 160.35 12.98 160.17

P.M. on COM  
MON ST  
CONDE

0.57 173.15 177.58

SUNSET Blvd

Reduced \* - \* - \*  
25' Line Plotted ✓

L7

B6.

R5

49

129.7  
68  
10

131.8  
47

136.50

136.2  
132  
70

138.3  
111

136.7  
127  
10

139.5  
99

153.5  
+ 4.1  
25

149.35

150.6  
9.8

153.4  
2.0  
25

156.0  
12

160.35

Sunset St. Cross Sections 1583-52

T.P. 0.36 111.50 13.00 111.14

1+75

1+50

1+25

1+00

0+75

T.P. 0.29 124.16 12.83 123.67

0+50

136.50

Lr

86

Rr

$$\begin{array}{r} 112.8 \\ \underline{4.4} \\ 10 \end{array} \quad \begin{array}{r} 112.2 \\ \underline{14.0} \\ 10 \end{array} \quad \begin{array}{r} 112.7 \\ \underline{11.5} \\ 4 \end{array}$$

$$\begin{array}{r} 115.3 \\ \underline{8.9} \\ 10 \end{array} \quad \begin{array}{r} 115.0 \\ \underline{9.0} \\ 10 \end{array} \quad \begin{array}{r} 115.9 \\ \underline{8.3} \\ 4 \end{array}$$

$$\begin{array}{r} 116.1 \\ \underline{8.1} \\ 10 \end{array} \quad \begin{array}{r} 117.3 \\ \underline{6.9} \\ 10 \end{array} \quad \begin{array}{r} 117.6 \\ \underline{6.6} \\ 3 \end{array}$$

$$\begin{array}{r} 117.0 \\ \underline{7.4} \\ 10 \end{array} \quad \begin{array}{r} 118.1 \\ \underline{6.1} \\ 10 \end{array} \quad \begin{array}{r} 121.7 \\ \underline{2.5} \\ 5 \end{array}$$

$$\begin{array}{r} 118.9 \\ \underline{5.3} \\ 10 \end{array} \quad \begin{array}{r} 121.2 \\ \underline{3.0} \\ 10 \end{array} \quad \begin{array}{r} 126.2 \\ \underline{+2.0} \\ 10 \end{array}$$

$$\begin{array}{r} 122.2 \\ \underline{14.3} \\ 10 \end{array} \quad \begin{array}{r} 123.7 \\ \underline{12.8} \\ 10 \end{array} \quad \begin{array}{r} 124.5 \\ \underline{12.0} \\ 4 \end{array}$$

136.50

2+20 W4 Cande

2 Cande

3+20 FL Cande

2+75

2+50

2+25

2+00

111.50

$$\frac{98.8}{12.7} = \frac{7.8}{10}$$

$$\frac{99.6}{11.9}$$

$$\frac{100.1}{11.4} = \frac{8.8}{3}$$

$$\frac{102.9}{8.6} = \frac{11.9}{6}$$

$$\frac{100.1}{11.4} = \frac{8.8}{10}$$

$$\frac{100.8}{10.7}$$

$$\frac{101.2}{10.3} = \frac{9.8}{3}$$

$$\frac{102.0}{9.5} = \frac{10.8}{10}$$

$$\frac{102.4}{9.1}$$

$$\frac{103.1}{8.4} = \frac{12.4}{5}$$

$$\frac{104.0}{7.5} = \frac{13.9}{10}$$

$$\frac{103.6}{7.9}$$

$$\frac{104.4}{7.1} = \frac{14.7}{11}$$

$$\frac{105.7}{5.8} = \frac{18.4}{10}$$

$$\frac{105.2}{6.3}$$

$$\frac{105.9}{5.6} = \frac{19.1}{9}$$

$$\frac{107.7}{3.8} = \frac{28.4}{13}$$

$$\frac{105.9}{5.6} = \frac{19.1}{10}$$

$$\frac{106.9}{4.6}$$

$$\frac{107.7}{3.8} = \frac{28.4}{6}$$

$$\frac{110.6}{0.9} = \frac{123.0}{11}$$

$$\frac{110.1}{1.4} = \frac{78.6}{10}$$

$$\frac{109.8}{1.7}$$

$$\frac{110.6}{0.9} = \frac{123.0}{5}$$

111.50

1+75

1+50

1+25

1+00

0+75

0+50

0+25

T.P.

0.75

99.56  
111.50

12.19

98.81

90.4  
9.2  
10

89.8  
8.8

91.5  
8.1  
10

91.5  
8.1  
10

91.8  
7.8

92.9  
6.7  
11

92.9  
6.7  
10

93.1  
6.5

94.1  
5.5  
11

93.5  
6.1  
10

94.0  
5.0

94.7  
4.9  
7

93.9  
5.7  
10

95.1  
4.5

95.6  
4.0  
4

96.3  
3.3  
10

96.9  
2.7

97.3  
2.3  
3

97.9  
1.7  
10

98.8  
0.8

99.5  
0.1  
5

99.56

3+00

$$\begin{array}{r} 83.4 \\ 16.2 \\ \hline 18 \end{array} \quad \begin{array}{r} 83.9 \\ 15.7 \\ \hline 8 \end{array} \quad \begin{array}{r} 87.4 \\ 10.2 \\ \hline 4 \end{array} \quad \begin{array}{r} 89.6 \\ 10.0 \\ \hline \end{array} \quad \begin{array}{r} 94.9 \\ 4.7 \\ \hline 10 \end{array}$$

2+90

$$\begin{array}{r} 83.9 \\ 15.7 \\ \hline 10 \end{array} \quad \begin{array}{r} 83.9 \\ 15.7 \\ \hline 2 \end{array} \quad \begin{array}{r} 88.1 \\ 14.5 \\ \hline \end{array} \quad \begin{array}{r} 90.4 \\ 9.7 \\ \hline 10 \end{array}$$

2+87

$$\begin{array}{r} 83.9 \\ 15.7 \\ \hline 10 \end{array} \quad \begin{array}{r} 84.0 \\ 15.6 \\ \hline \end{array} \quad \begin{array}{r} 87.8 \\ 16.8 \\ \hline 2 \end{array} \quad \begin{array}{r} 88.9 \\ 10.7 \\ \hline 10 \end{array}$$

2+75

$$\begin{array}{r} 83.5 \\ 16.1 \\ \hline 10 \end{array} \quad \begin{array}{r} 84.9 \\ 14.7 \\ \hline \end{array} \quad \begin{array}{r} 87.3 \\ 14.3 \\ \hline 12 \end{array}$$

2+50

$$\begin{array}{r} 86.0 \\ 13.6 \\ \hline 10 \end{array} \quad \begin{array}{r} 87.0 \\ 12.6 \\ \hline \end{array} \quad \begin{array}{r} 88.0 \\ 11.6 \\ \hline 12 \end{array}$$

2+25

$$\begin{array}{r} 87.6 \\ 12.0 \\ \hline 10 \end{array} \quad \begin{array}{r} 88.0 \\ 4.0 \\ \hline \end{array} \quad \begin{array}{r} 88.8 \\ 10.8 \\ \hline 9 \end{array}$$

2+00

$$\begin{array}{r} 87.9 \\ 11.7 \\ \hline 10 \end{array} \quad \begin{array}{r} 88.8 \\ 10.8 \\ \hline \end{array} \quad \begin{array}{r} 90.0 \\ 9.6 \\ \hline 9 \end{array}$$

99.5699.56

Line Harney  
 Check to B.M. Man. Sunset 1.85 121.83 121.87  
 0.04

T.P. 1290 123.62 0.32 110.78

3+25 E Harney

T.P. 1276 111.10 0.74 98.84

3+15

3+12

99.56

<u>93.0</u>	<u>97.4</u>	<u>99.2</u>	<u>103.0</u>
18.1	12.7	11.9	8.1
10		1	10

<u>111.0</u>			
<u>91.3</u>	<u>94.1</u>	<u>95.5</u>	<u>101.1</u>
8.3	5.5	4.1	+ 1.5
15		5	10

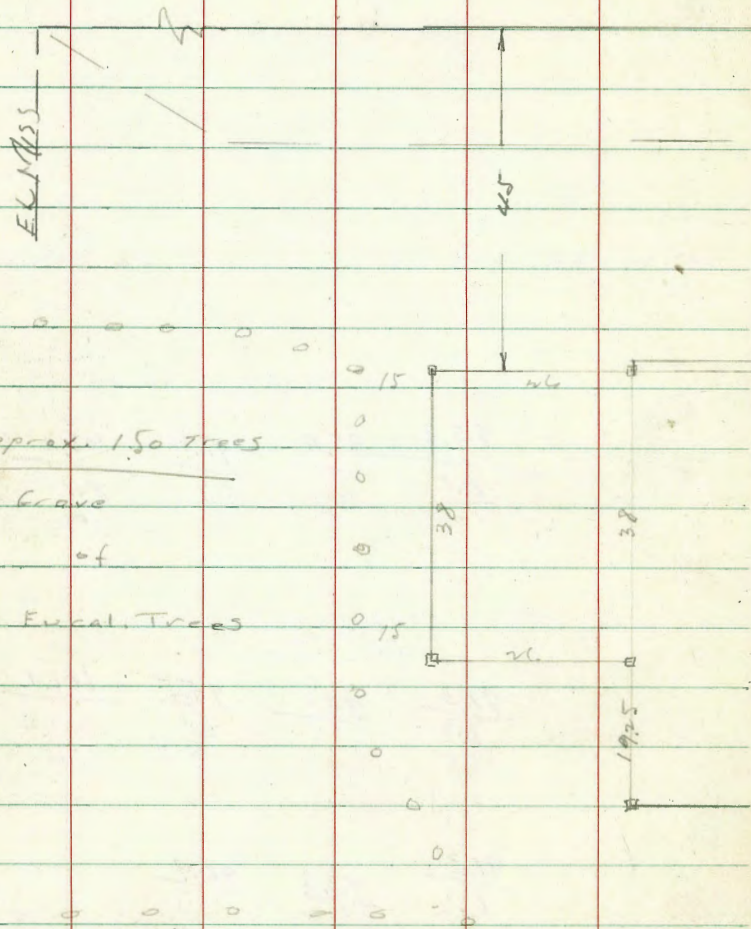
<u>91.3</u>	<u>93.6</u>	<u>96.9</u>
8.3	6.0	2.7
15		10

99.56



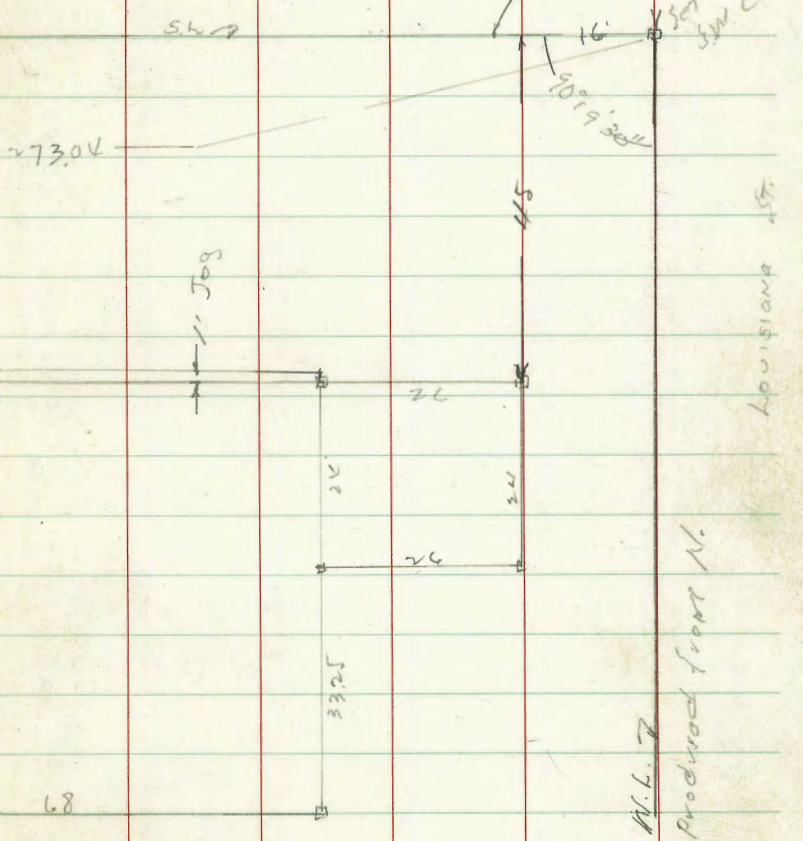
Recr. Bldg.

Moore - S.W. Cor. VPAS + Louisiana  
Sammardoyen  
W. Moore  
4-19-44. Set 2x2 Hubs



Indexed  
c.s.k.  
Plotted - c.s.k.

VPAS St.



N.L. 7  
Produced from N.

Levels w/ Site of Recn. Bldg.

SW Con. Upas + Louisiana

Contd. P. 59

1 + 36

1 + 10

0 + 76

0 + 42

0 + 16

0 + 00 - w/ to Louisiana

Fd 8MBP  
NE Con.  
INCUB

4.40

282.49

278.09

Upas +  
Louisiana

Lt. = % So.

SW Upas

Pr.

56

276.8	276.8	276.87	277.06	277.1	276.5	274.8	275.14
5.7	5.7	5.67	5.43	5.4	6.0	7.7	7.35
145	102.25	83	45	146	78	20	20
276.7	276.7	276.7	277.15	277.30	276.9	275.10	275.44
5.8	5.73	5.58	5.34	5.4	5.1	7.4	7.05
145	102.25	83	45	146	78	20	20
276.7	277.0	277.3	277.6	277.6	277.5	275.6	275.9
5.8	5.5	5.7	5.4	4.9	5.0	5.9	5.79
145	102.25	83	45	146	78	20	20
276.8	277.14	277.45	277.45	277.5	277.5	276.0	276.40
5.7	5.35	5.4	5.4	5.0	5.0	5.9	5.9
145	102.25	83	45	146	78	20	20
276.4	276.8	276.95	277.14	277.5	277.5	276.2	276.75
6.1	5.7	5.54	5.35	5.0	5.0	6.3	5.74
145	102.25	83	45	146	78	20	20
276.1	276.6	276.8	277.1	277.38	277.6	276.4	276.96
6.4	5.9	5.7	5.4	5.11	4.9	6.1	5.53
145	102.25	83	45	146	78	20	20

edge  
oil  
Par.

edge  
black  
Par.

Location of trees etc.

SW Cor upas + Louisiana by A and 179 dia

TRANSIT ON SW Cor Louisiana 0°00' to West

✓ 18° 07' LT	33	Dead Man
✓ 25° 40' LT	79	12" di. Eucal.
✓ 29° 10' LT	70	14" " "
✓ 31° 36' LT	84	8" " "
✓ 36° 49' LT	78	10" " "
✓ 40° 20' LT	118	8" " "
✓ 41° 41' LT	111	10" " "
✓ 43° 22' LT	126	4" " " STUMP
✓ 43° 20' LT	77	9" " "
✓ 44° 52' LT	94	14" " "
✓ 45° 47' LT	69	10" " "
✓ 46° 37' LT	113	6" " Acasia
✓ 49° 03' LT	88	9" " Eucal.
✓ 52° 37' LT	68	10" " "
✓ 55° 53' LT	57	12" " "
✓ 57° 00' LT	93	8" " Acasia
✓ " " "	125	9" " "
✓ 58° 18' LT	138	6" " "
✓ 58° 51' LT	111	10" " "
✓ " " "	65	15" " Eucal

✓ 59° 19' LT	85	7" di. Acasia
✓ 63° 13' LT	126	10" " "
✓ 63° 47' LT	102	8" " "
✓ 64° 46' LT	110	6" " "
✓ 65° 00' LT	57	10" " Eucal. STUMP
✓ 66° 10' LT	83	5" " Acasia
✓ 67° 10' LT	99	6" " "
✓ 67° 47' LT	76	18" " Eucal.
✓ 68° 53' LT	106	6" " Acasia
✓ 70° 14' LT	99	9" " "
✓ 70° 48' LT	121	11" " "
✓ 71° 11' LT	89	7" " "
✓ 72° 00' LT	112	6" " "
✓ " " "	57	7" " Eucal.
✓ 73° 18' LT	43	6" " " STUMP
✓ 72° 53' LT	81	6" " Acasia
✓ 74° 56' LT	107	6" " "
✓ 75° 00' LT	136	14" " "
✓ 75° 59' LT	124	6" " "
✓ 77° 18' LT	101	7" " "
✓ " " "	114	6" " "

Contd. P. 58

## LOCATION TREES

✓ 79° 17' LT	51	13" di. Eucal.
✓ 79° 20' LT	108	6" di. Acacia
✓ 82° 30' LT	122	9" " "
✓ 83° 42' LT	10.3	10" di. <sup>Power Pole</sup> with St. Lite
✓ 84° 44' LT	74	4" " Acacia
✓ 85° 30' LT	153	3" " "
✓ 86° 24' LT	81	9" " "
✓ 87° 31' LT	125	12" " "
✓ 88° 53' LT	147	3" " Eucal.
✓ 92° 29' LT	102	9" " Acacia
✓ 93° 57' LT	94	9" " "
✓ 94° 24' LT	65	12" " Eucal.
✓ 105° 38' LT	25	Road Sign

2+86 E. edge oil pav. Strip

2+83 E. ck Line Miss.

2+73 E.L. Miss. St

2+65

2+50

2+00

1+50

282.49

LT

273.5  
9.0  
275.0  
7.5  
20  
274.8  
7.4  
20  
274.9  
7.6  
20  
275.2  
7.3  
20  
276.2  
6.7  
20  
277.0  
6.7  
20

SL UPAS

273.1  
9.4  
274.2  
8.3  
20  
274.7  
7.8  
20  
274.9  
7.6  
20  
275.1  
7.4  
20  
276.4  
6.1  
20  
277.0  
5.5  
20

274.7

7.8  
12

274.9

7.6  
17

275.1

7.3  
18

276.2

6.7  
18

276.5

6.0  
18

272.9

9.4  
5

272.9

9.6  
14

275.0

7.5  
17

275.2

7.3  
18

276.2

6.7  
18

276.5

6.0  
18

272.5  
10.0  
272.7  
9.8  
20  
272.9  
9.6  
20  
273.1  
9.4  
20  
273.5  
9.0  
20  
274.2  
8.3  
20  
274.7  
7.8  
20  
274.9  
7.6  
20  
275.1  
7.4  
20  
276.4  
6.1  
20  
277.0  
5.5  
20

273.05  
9.44  
273.09  
9.40  
40  
273.25  
9.24  
40  
273.4  
9.10  
40  
273.57  
8.92  
40  
274.24  
8.25  
40  
274.92  
7.57  
40

59

282.49

Moore  
S. 2244

Water levels on

Dickens St.

Willow to 100' N of Clove

7410  
6470

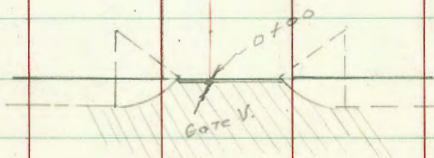
Clove

25 45

3170  
Plant

3100

25 45



Willow

	Indexed CSK			Willow 50 Carlton
SWBP	0.14	86.54		86.40
Fd "			10.10	76.44
Fd "			10.24	76.30
				Willow Dickens
TP	12.44	88.21	10.75	75.79
0 + 100 W of Willow St.			13.15	75.06
" " "			15.90	73.31
0 + 106			12.6	75.6
+ 14			8.9	79.3
+ 25			2.1	86.1
TP	12.57	100.65	0.13	88.08
+ 32			12.1	88.6
+ 50			10.8	89.9
+ 57			9.9	90.8
+ 75			5.5	95.2
+ 100			0.1	100.6
TP	12.80	113.45	0.00	100.65

Reduced 1' Plotted  
on Profile # 2589

		<u>113.45</u>		
1+30			7.8	105.7
+55			4.8	108.7
+75			3.3	110.2
T.P.	7.18	<u>119.50</u>	1.13	112.37
1+85			9.1	110.4
+			8.9	110.6
+35			8.1	111.4
+50			9.5	110.0
+75			9.4	110.1
+90			8.3	111.2
3	Ely PLUM		7.7	111.8
+25			4.4	115.1
T.P.	12.81	<u>131.84</u>	0.47	119.03
3+45			12.8	119.0
+55			10.7	121.1
3+70	Wly PLUM		7.6	124.2
+85			5.8	126.0

		<u>131.84</u>	DICKENS	61
3+95			0.8	131.0
T.P.	12.91	<u>144.71</u>	0.04	131.80
4+06			11.2	133.5
+21			11.1	133.6
+28			11.6	133.1
+35			10.5	134.2
+70			6.3	138.4
5+00			2.7	142.0
T.P.	12.84	<u>156.85</u>	0.70	144.01
5+50			10.1	146.8
6+00			5.6	151.3
+50			3.2	153.7
6+70	Ely clove st.		2.4	154.5
7+05			1.5	155.4
T.P.	6.63	<u>162.02</u>	1.46	155.39

7 + 40 Wly Clove 5.7 1563

+ 80 4.1 1579

8 + 20 approx. Pueblo Line 2.2 1598

NWly Cor. Mon. <sup>Dickens</sup> Clove 8.34 153.68

T.P. 0.95 151.29 11.68 150.34

T.P. 0.50 140.55 11.24 140.05

SW B Pch. <sup>Carleton +</sup> <sub>Plum</sub> 6.44 134.11 134.09  
0.02



Levels on N.W. Cor. of  
Gresham & Hornblend.

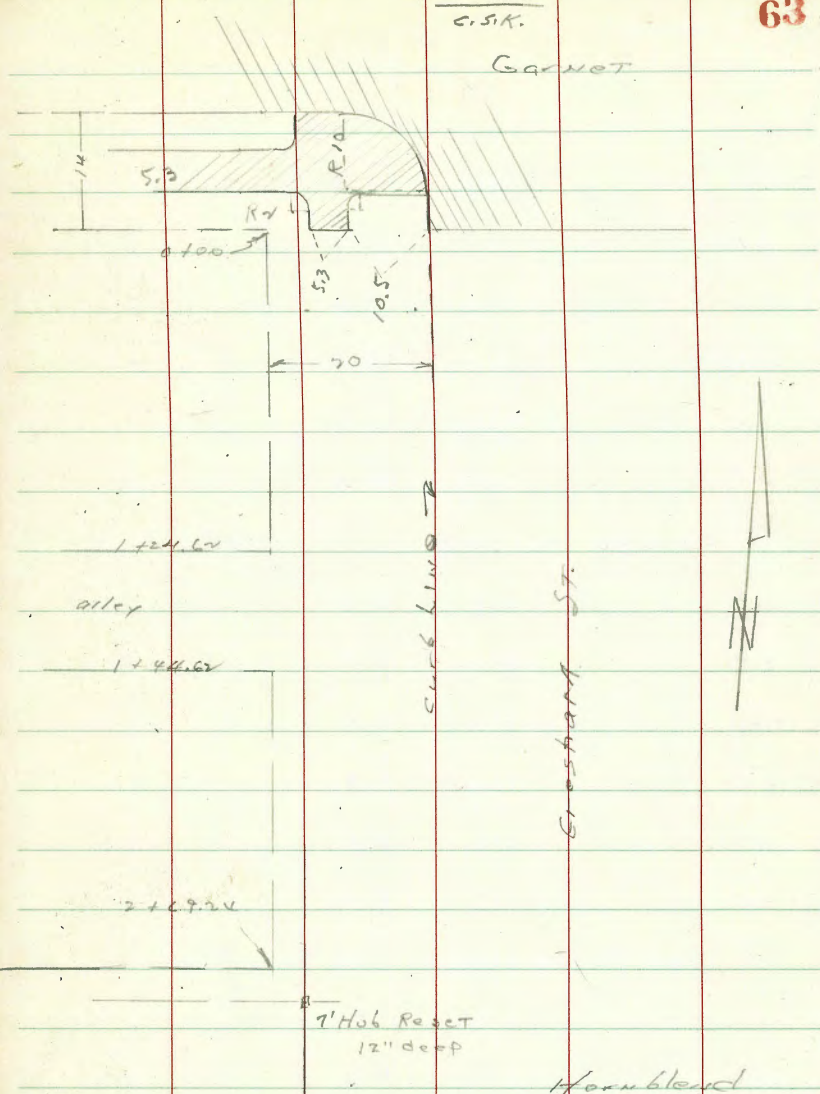
C.S.M.  
C.S.  
W.F.M.  
5-10-44.

NWBP	2.12	74.49		76.37	Diamond & Gresham
T.P.	1.78	65.07	9.20	63.29	
T.P.	2.43	59.38	8.12	51.95	
T.P. 7' CT	2.73	55.16	6.95	52.43	S.W. Cor. Garnet & Gresham 52.43
at 100 ft. Garnet					
W			2.7		
+7 or edge walk			2.45		
cb Top			3.06	52.10	52.10 = Grade
947. Pav.			3.69		
W 1/4 "			3.11		
0/50					
W			3.7		
+10			3.7		
cb			3.6		
+4			3.7		
+5			4.5		
1/4			4.1		

Indexed  
C.S.K.

63

Garnet



5516

1100

W	4.9
+10	4.9
c6	4.4
+5	4.6
+6	5.0
1/4	4.9

1124.62 NL alley

W	4.9
+10	4.8
c6	4.8
+6	4.9
+7	5.2
1/4	5.2

1144.62 SL alley

W	5.5
+10	5.2
c6	5.1
+6	5.2
+7	5.8
1/4	5.7

Gresham 64

5516

1100

W	6.5
+10	6.2
c6	6.0
+7	6.2
+8	6.7
1/4	6.7

1135

W	7.2
+10	6.9
c6	6.6
+7	6.7
+8	7.2
1/4	7.2

1169.24 NL Hornblend

W	7.9
+10	7.5
c6	7.1
+7	7.4
+8	7.8
1/4	7.8

55.6  
 T.P. 2.93 49.22 8.87 46.29

Levels N side Hornblend, Gresham Wly 150'

0 100 W.L. Gresham

N 1.9

+10 1.8

+20 cb 2.0

+28 3.2

+30 = N  $\frac{1}{4}$  3.2

0 1.50

N 3.1

+10 3.1

+20 cb 3.4

+28 4.3

+30 = N  $\frac{1}{4}$  4.1

+20

N 4.5

+10 4.5

+20 cb 4.9

+26 5.0

49.22 Hornblend 65

N + 30 = N  $\frac{1}{4}$  5.1

1403

N + 13 = 30" dia. pepper tree

1423

N + 13 = 18" " "

1448

N + 6 = 10" Cypress

1450

N 4.8

+10 4.8

+20 = cb limit 5.3

+26 5.7

+30 N  $\frac{1}{4}$  5.6

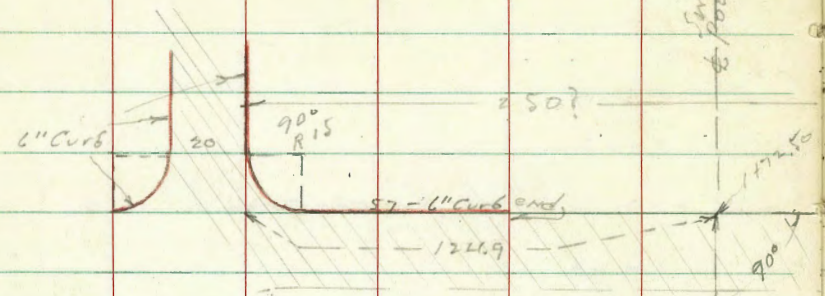
T.P. 9.51 55.80 2.93 46.29

Sw. 7' CT Garnet & Gresham 3.37 52.43 52.42

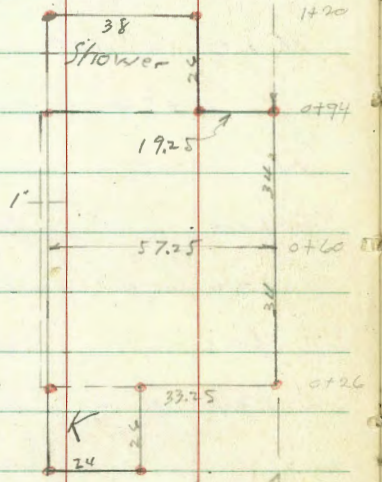
INDEXED  
C.S.K.

Balboa Park Rec. Bldg.

C.S.M.  
5-13-66



705.5  
S of N.L. Upas ST.  
AND TEXAS.



Baseline  
Cor Levels

Lands on Recre. Bldg Site, Balboa Park

2744.60

0-194 6.7 100

0-160 P Bldg, 5.8 100

0-146 5.5 100

0-100 S.L. Bldg 5.1 100

0-1X 5.1 100

0-20 4.8 100

T.P. 6.98 281.30 5.74 274.34 spike tel.

T.P. 3.69 280.04 4.58 276.35

NEBP 4.84 280.93 278.09 Upas d  
Louisiana

275.65	275.7	277.4	277.5	276.90	276.97	277.3	277.5
5.65	5.4	4.9	3.8	4.40	4.33	4.0	3.3
57.5	42	33	25	19.5	14.6	30	60
H.6				H.6	H.6		
275.5	275.7	276.5	277.6	276.8	276.8	277.1	277.2
5.8	5.6	4.8	3.7	4.5	4.5	4.3	4.1
100	60	30	20	21	45	30	60
275.6	276.49	276.8	277.24	276.8	276.91	277.0	277.1
5.5	4.81	4.5	3.58	4.5	4.39	4.3	4.2
100	57.5	40	33.5	24	21	30	60
	H.6		H.6		H.6		
	5.1	4.58	4.28	4.6	3.6	4.5	4.5
	100	57.5	33.5	20	30	10	30
		H.6	H.6				
	5.1	4.3	4.26.8	4.26.8	4.27.4	4.27.7	4.27.8
	100	50	50	50	39	30	60
	4.8	4.7	4.77.1	4.77.0	4.76.3	4.76.4	4.76.9
	100	65	50	50	50	30	60

Pole Sw Cap. 281.30  
Swim Pool Blk.

281.30  
 1.98  
 279.32  
 6.00  
 280.32  
 3.70  
 276.62  
 1.00  
 280.62  
 2.53  
 278.09

MS. 4. 6M

172.5      N CB  
 END  
 CB Ret.

172.5      Gut. oil Pav

175.5      S edge oil Pav

174.0

172.8

172.0      N L Bldg

281.30

272.74  
 85c  
 159.9  
 271.99  
 9.31  
 160

LT

273.05  
 82.5      7.78  
 144.9      124.9  
 Pav      Pav

7.10  
 109.9  
 CB Ret.

273.00  
 750  
 110  
 273.55  
 7.74  
 125  
 274.2  
 7.1  
 100  
 274.2  
 7.1  
 100

275.16  
 275.16  
 6.20  
 5.3  
 275.34  
 5.96  
 50  
 276.1  
 5.9  
 32  
 276.1  
 5.9  
 32

277.02  
 430  
 277.02  
 4.4  
 277.9  
 4.4  
 277.9  
 4.1  
 277.2  
 4.1  
 277.2

275.81  
 5.49  
 5.3  
 CB end

275.16  
 6.20  
 5.3  
 275.34  
 5.96  
 50  
 276.1  
 5.9  
 32  
 276.1  
 5.9  
 32

277.02  
 430  
 277.02  
 4.4  
 277.9  
 4.4  
 277.9  
 4.1  
 277.2  
 4.1  
 277.2

277.85  
 3.5  
 30  
 277.85  
 3.5  
 30  
 278.35  
 3.5  
 30  
 278.35  
 3.5  
 30  
 278.85  
 3.5  
 30  
 278.85  
 3.5  
 30  
 279.35  
 3.5  
 30  
 279.35  
 3.5  
 30

BL.

R.

68

277.20  
 4.1  
 277.0  
 277.0

277.0  
 4.30  
 4.30  
 277.02  
 4.3  
 4.3  
 277.78  
 4.3  
 30  
 278.08  
 4.3  
 30

277.02  
 4.30  
 277.02  
 4.3  
 277.9  
 4.3  
 277.9  
 4.1  
 277.2  
 4.1  
 277.2

277.85  
 3.5  
 30  
 277.85  
 3.5  
 30  
 278.35  
 3.5  
 30  
 278.35  
 3.5  
 30  
 278.85  
 3.5  
 30  
 278.85  
 3.5  
 30  
 279.35  
 3.5  
 30  
 279.35  
 3.5  
 30

281.30

Walker  
Hugford  
Hurdin  
Boggs  
5-26-14

Survey for Proposed Water Main  
From 5th and Laurel Sts.  
to 7th " " "  
ON LAUREL STREET.

Cont. on p. 70

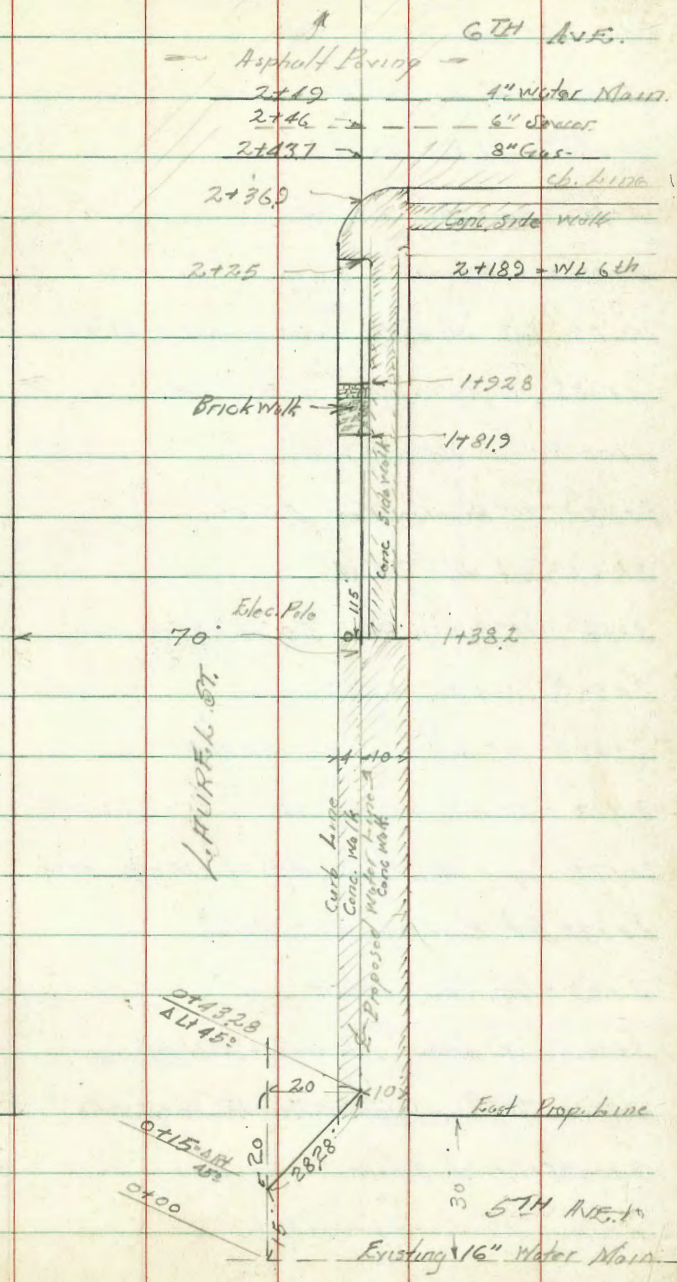
- 2+36.9 - Int. cb. Return
- 2+25 - Beginning Full width Walk around Return
- 2+22.2 - Elec. Pole 2.1 Lt. S edge Pole
- 2+18.2 - Wk. 6th Ave
- 1+27 - Water Meter Service Box 1 Lt. S edge
- 1+38.5 - 2' Elec. Pole, South edge Pole = 1.15 Lt.
- 1+38.2 - End Full width side walk

0+43.28 -  $\Delta R 45^\circ$

0+15' -  $\Delta R 45^\circ$

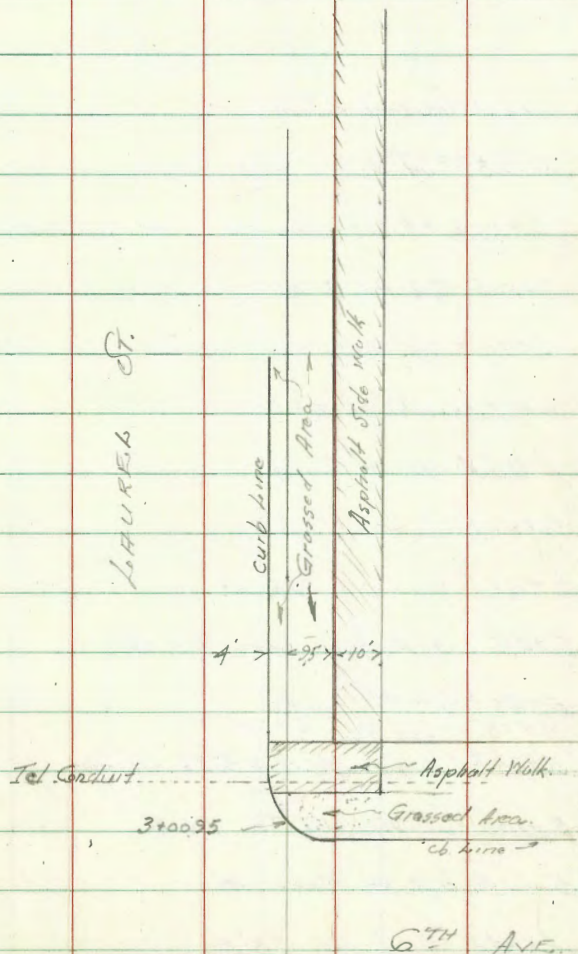
0+00 - Existing 16" Water Line

Indexed  
C.S.K.



- Location Proposed 24" Water Main  
 Cont #71 Laurel St
- 4+67.2 = Sprk. Hd. 2.8' Rt.
- 4+60 = 12" Acacia Tree 5' Rt.
- 4+50.7 = Sprk. Hd. 2.8' Rt.
- 4+34 = Sprk. Hd. 2.8' Rt.
- 4+25 = 6" Acacia 5' Rt. - N edge
- 4+17 = Sprk. Hd. 2.7' Rt. <sup>Ab0</sup> Light standard = 4.5' Rt. = N edge
- 4+08.5 = 8" Acacia Tree 5' Rt. = N edge
- 4+00.5 = Sprk. Hd. 2.7' Rt.
- 3+92 = 10" Acacia Tree 5.0' Rt.
- 3+67 = Sprk. Hd. 2.8' Rt.
- 3+58 = 14" Acacia Tree 5.0' Rt. = N edge
- 3+56.5 = Sprk. Hd. 2.7' Rt.
- 3+41.5 = 10" Acacia Tree 6.0' Rt. = N edge
- 3+18 = Sprinkler Hd. 2.6' Rt.
- 3+17 = Light Standard 4.4' Rt. = N edge Base.
- 3+13 = Int. East edge Asphalt Walk
- 3+09 = Int. Tel. Conduit
- 3+06.2 = Int. Asphalt side walk = West side
- 3+04.8 = Sprinkler Control Valve 1.2' Rt. = S. valve
- 3+00.95 = Int. cb. Return

Cont. from P-69





Location Proposed 24" Water Main  
 ~ Laurel St.

7+00.3 = Int. 24" Water

6+35.2 = Int. Curb Return

6+23.2 = Int. Asphalt Walk

6+19.2 = Light Standard 5' Rt Water Meter Box = 2.2 ft. S edge

6+17.5 = Sprk Hd 3' Rt

6+11 = 10" Accacia 5' Rt

6+02 = Sprk Hd 2.8' Rt

5+85.4 = Sprk Hd 2.8' Rt

5+68.4 = Sprk Hd 2.8' Rt

5+51.5 = Sprk Hd 2.8' Rt

5+43 = 14" Accacia Tree 5.2' Rt

5+35 = Sprk Hd 2.8' Rt

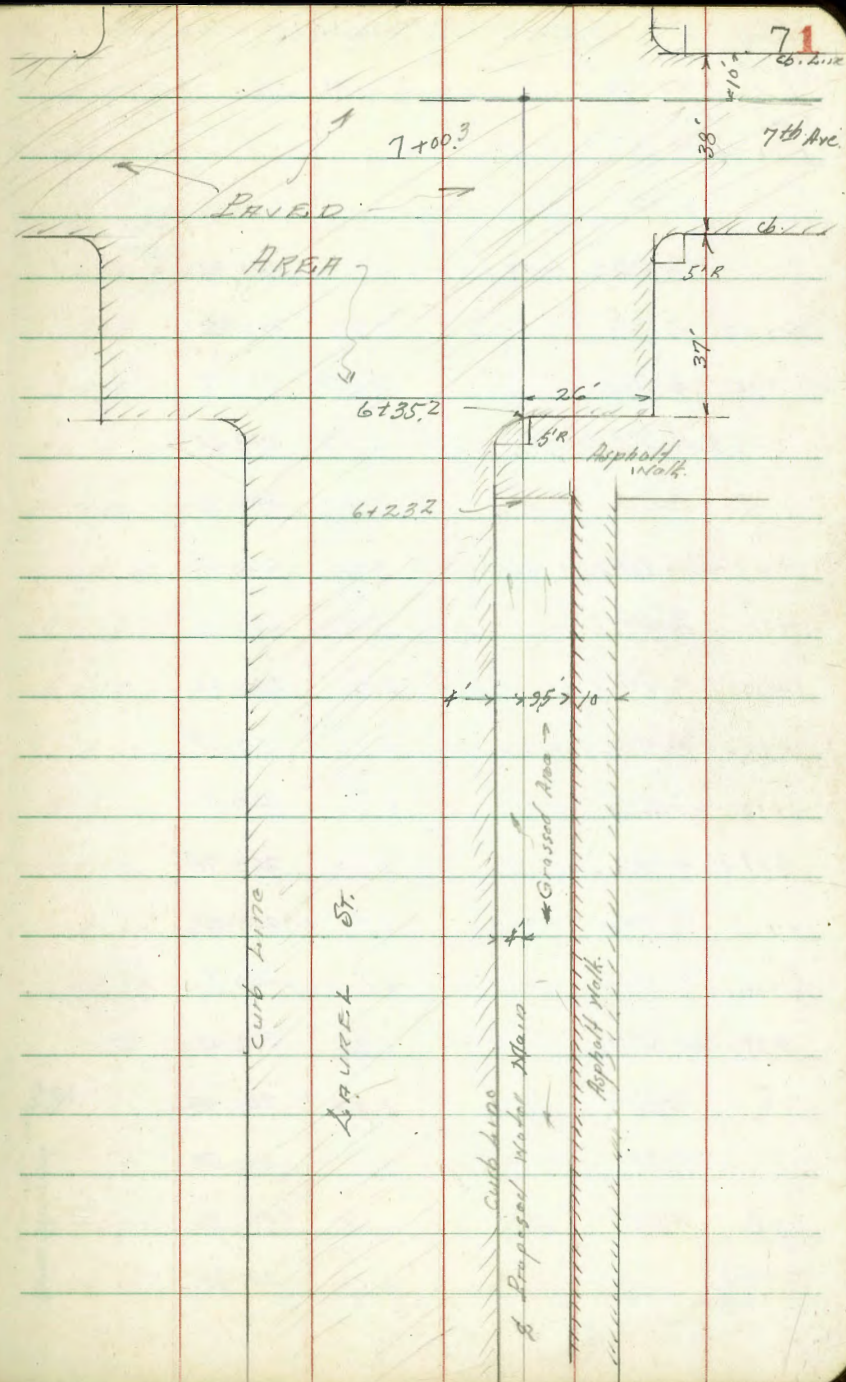
5+18.2 = Sprk Hd 2.7' Rt

5+18.2 = Light Std. 4.5' Rt - N edge

5+10 = 5" Accacia Tree 5.9' Rt

5+01.5 2.7' Rt = Sprk Hd.

4+84.8 = Sprk Hd 2.8' Rt.



Walker  
Hazard  
Hurdin  
Baggs.  
5-26-44

Levels for Proposed Water Main  
on Laurel St.  
Between 5th & 7th Ave

Location P-69-71

	5.43	255.38	249.95	N.W. B.P. 5th & Laurel
0+00	5.43		249.95	
+15 = A.R. 45°	5.67		249.71	
+37.3 = Int. cb. on curb	5.87		249.51	
" " " " cb.	5.45		249.93	
+43.28 = 24 45° on Walk	5.38		250.00	
+50 on Walk	5.28		250.10	
+100 " "	4.96		250.42	
+38.2 = end Full width walk	4.81		250.57	
+153 on Grass	4.7		250.7	
+181.9 " Brick Walk	4.60		250.78	
+192.8 " "	4.57		250.81	
2+00	4.5		250.9	
+25 on Walk	4.30		251.08	
+36.9 cb.	4.34		251.09	
" " Pav	4.84		250.54	
J.P. 447	4.34	255.51	251.04	
2+750	4.59		250.9v	

Notes Reduced

255.51 ✓

12

2+69 = 6th of Roadway	4.24	251.27
3+00	4.70	250.81
701 on cb.	4.31	251.20
+106.2 on Asphalt Walk	4.24	251.27
+113 " " "	4.15	251.36
3+50	4.2	251.3
4' 14" on cb.	4.31	251.20
4+00	4.6	250.9
4' 24" " "	4.58	250.93
4+50	5.0	250.5
5+00	5.5	250.0
4' 64" " "	5.57	249.92
5+50	5.9	249.6
6+00	6.3	249.2
4' 14" on cb.	6.42	249.09
6+23.2 on Int. Walk.	6.46	249.05
+632 on cb.	6.44	249.07
" " " Curb Paving	7.02	248.49
6+50	7.13	248.38
7+00.3 = End	7.65	247.86
chk. B.M. B.P.	3.58	251.25

N.W. 6th  
& Laurel  
OK

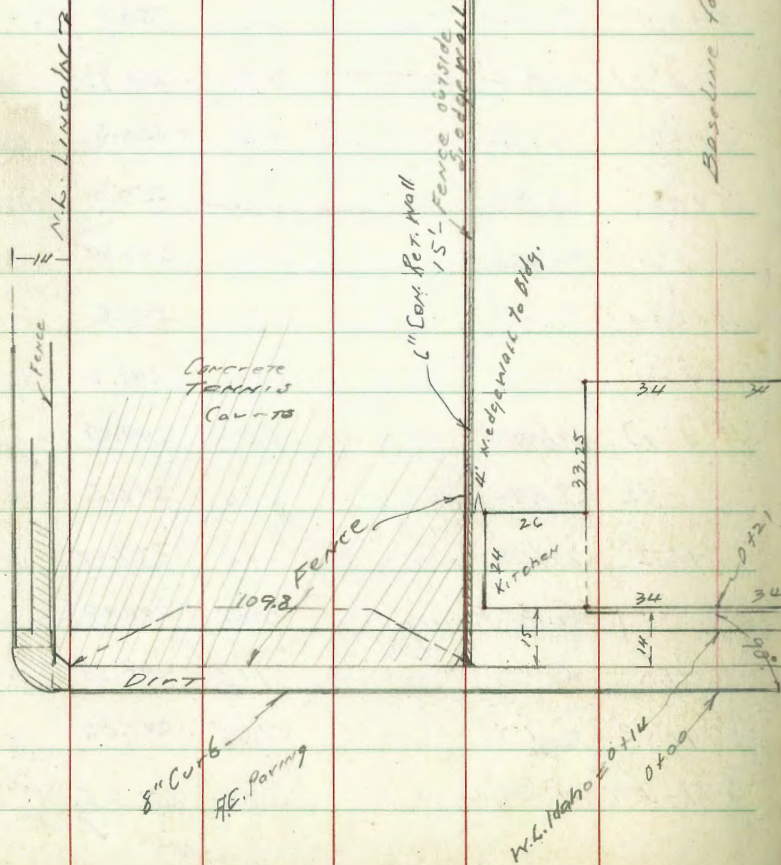
Levels on Recr. Bldg.

NW Cor. Lincoln & Idaho

= 2x2 Hubs SET

109.8 NW Lincoln to N. edge 6" Con. Ret. Wall

Note! Mr. Rick says,  
Place Kitchen on South.



C. Moore  
Sammerneyer  
W. F. N.  
80995

7-19-04

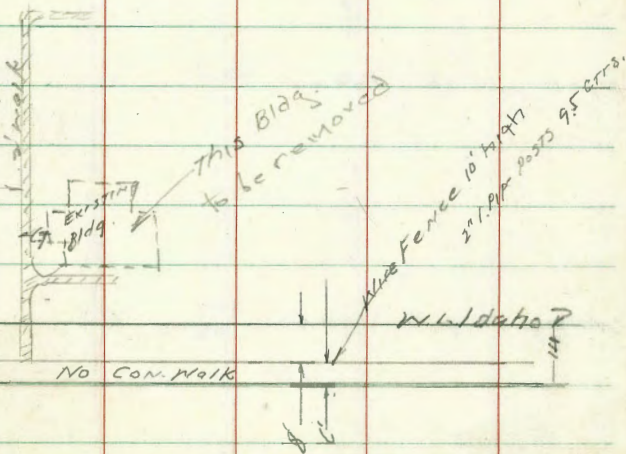
Baseline for Levels

Index  
C.S.K.

73

Should have been  
Staked 15' Back of  
NW Idaho

Re-stake P. 76



Levels on Site Recr. Bldg  
NW Lincoln + Idaho

0+14 W. b. Idaho

363.74  
4.89  
64

Top of wall

363.75  
4.88  
64

0+06.5

0+06 10' High fence

0+00 N. c. b. Idaho

0+00 N. gut. Idaho

EMR Inc  
SECOR

7.78

368.63

360.85

Lincoln +  
Idaho

362.93  
5.7  
64

363.13  
5.5  
64

362.63  
6.0  
60

362.62  
6.01  
60

362.07  
6.56  
60

362.93  
5.7  
60

363.03  
5.6  
60

363.13  
5.6  
60

363.04  
5.59  
60

362.47  
6.14  
64

363.23  
5.4  
64

363.33  
5.3  
60

363.13  
5.6  
60

363.42  
5.21  
60

362.89  
5.74  
64

Baseline  
363.83  
4.8  
64

363.83  
4.8  
64

363.53  
5.1  
60

363.42  
5.21  
60

362.89  
5.74  
64

364.33  
4.9  
64

364.33  
4.9  
64

363.93  
4.7  
64

363.79  
4.64  
64

363.37  
5.26  
64

364.63  
4.0  
60

364.63  
4.0  
60

364.43  
4.2  
60

364.37  
4.26  
60

363.82  
4.81  
60

Rt = % North 74

368.63

		Top wall	LT.	Baseling	RT.
1 + 00		362.95 5.68 6.4	362.23 6.4	362.13 6.5 6.0	362.43 6.2 3.4
				362.93 5.7	363.73 4.9 6.0
2 + 78.25 Back Line of Bldg		363.22 5.41 6.4	362.33 6.3	362.33 6.3	362.63 6.0
				363.23 5.4	363.93 4.7 6.0
2 + 59 Back Line of Shower Room		363.36 5.27 6.4	362.43 6.4	362.63 6.0	362.93 5.7 3.4
				363.63 5.0	364.03 4.5 6.0
2 + 45 Back Line Kitchen		363.50 5.13 6.4	362.83 5.8	362.73 5.9	363.13 5.5
				363.63 5.0	364.13 4.5 6.0
2 + 21 Main Front Bldg		363.73 4.90 6.4	362.93 5.7	362.93 5.7	363.23 5.4
				363.73 4.9	364.23 4.4 6.0
				363.13 4.1	364.53 4.1 6.0

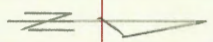
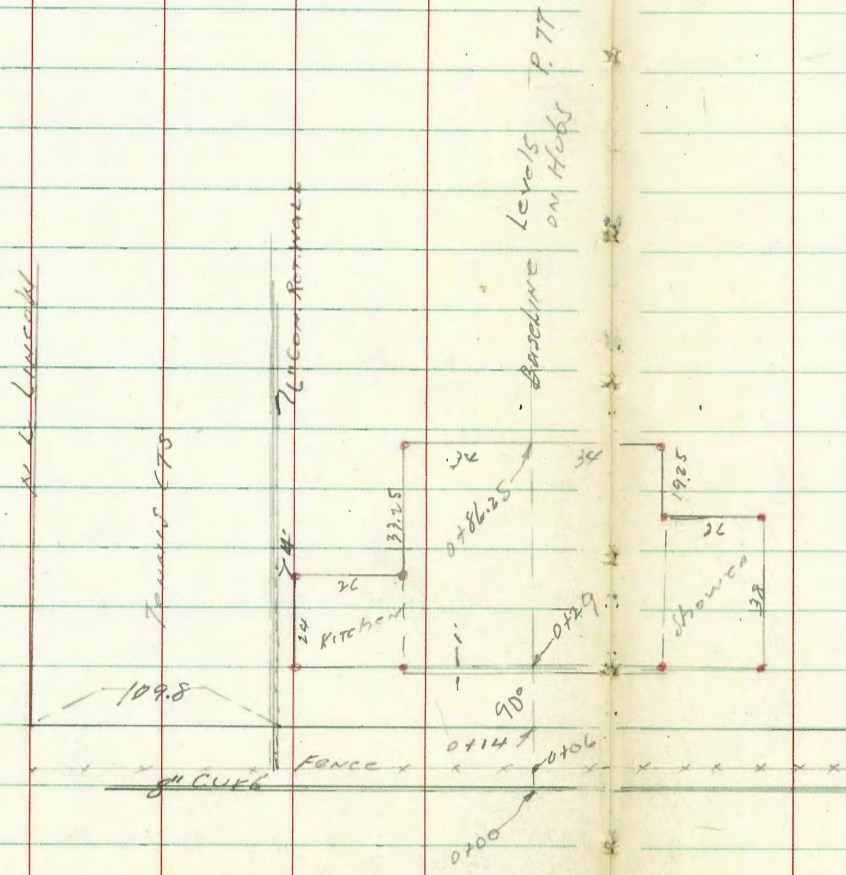
363.63

363.13

Recr. Bldg. Lincoln + Idaho

Re. STAKE front P. 73 CSM  
7-22-24

xxxx Hubs



Wb. Idaho

Levels on Hubs

on Re-stake

Sketch p. 76

0+86.5 Back Line Bldg

0+67 Back Line of Showee Road

0+53 Back Line Kitchen

0+29 Front Line Wings

BM P74 7.56 368.41 360.85

E Bldg.  
Baseline

Rt. = **77**  
To North

362.53

5.88  
34

362.66

5.75  
30

362.94

5.47  
60

363.06

5.35  
34

363.22

5.19  
34

368.41

363.96

4.45  
34

363.97

4.44  
34

364.18

4.23  
34

364.30

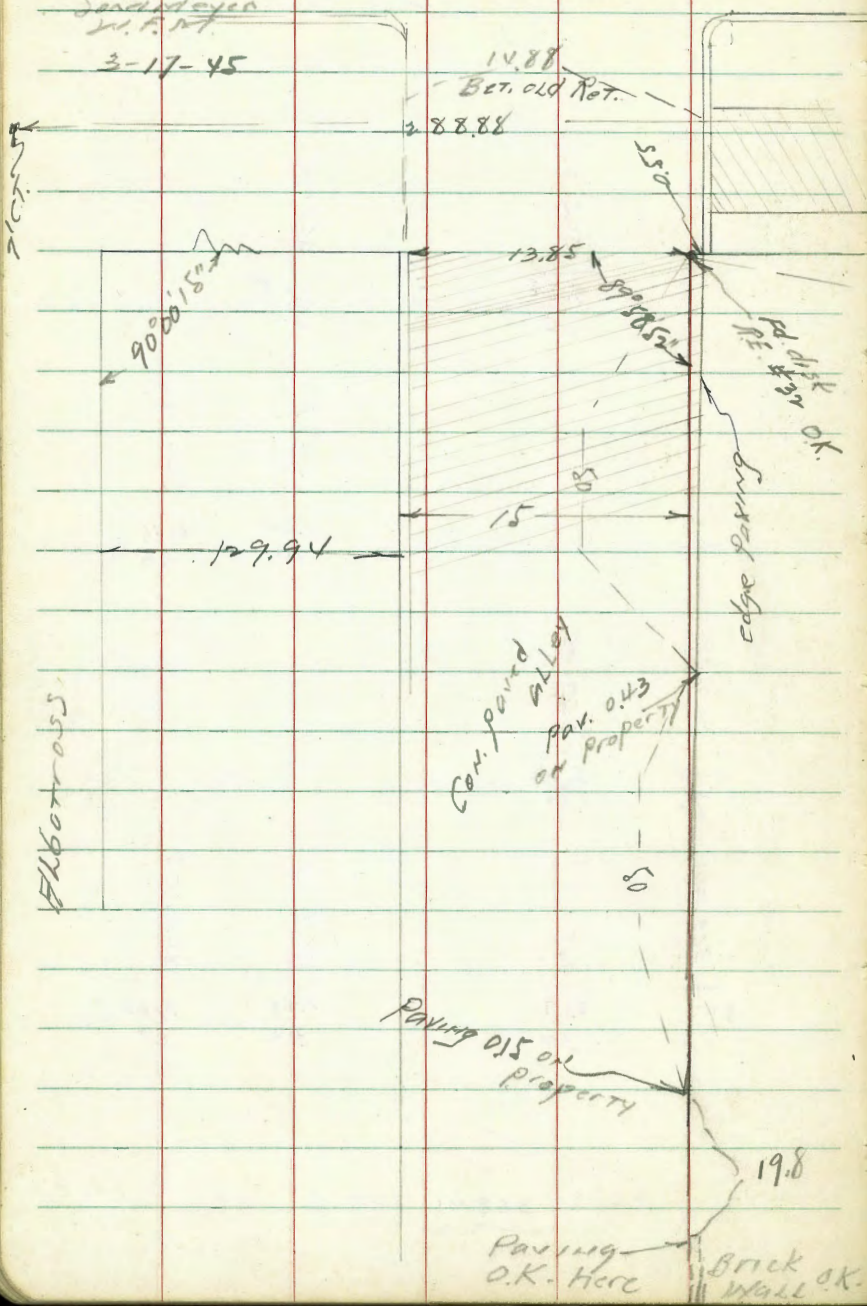
4.11  
60

364.53

3.88  
60

Check ALLEY LINE IN BIK C  
Cleveland Hts.

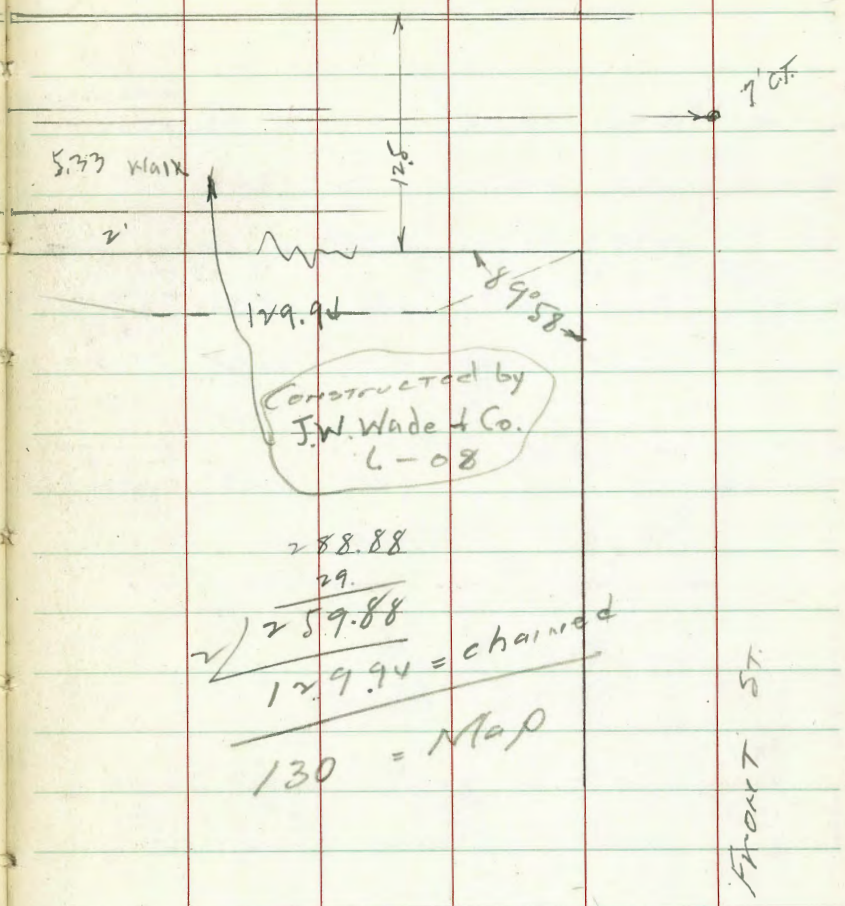
entire  
Sundowner  
W.F.M.  
3-17-45



Robinson Ave.

Indexed  
C.S.R.

78



288.88  
29.  
259.88  
129.94 = chained  
130 = Map

N.E. ALLEY Ret. OPPOSITE  
IS P.70 to for WEST.  
N.W. IS O.K.

FRONT ST.



Sewer Levels at  
Etiwanda S. of Castellon

csm  
1-30-46.

S.Wly Spike  
in RR: 5.98 30.04 24.06 W. PT. LOMA B.  
MONTONE

TP 3.25 22.16 11.13 18.91

TP 10.39 32.21 0.34 21.82

STAN. disk  
T.P. Con. Mon.  
USGS-H-60  
79.38

8.16 36.67 3.70 28.51

Wly Con of  
W. PT. LOMA BLV.  
SEASIDE  
28.433  
FB 1317-CO

TP 7.22 44.34 2.75 33.92

Set B.M.B.P. approx. ch. B.C

on Wly curb 7.00 32.8

Etiwanda  
and  
Castellon

41.34	41.34	41.34	41.34	41.34
10.88	4.39	8.02	6.00	6.30
30.46	36.95	33.32	35.34	35.0

41.34	41.34
5.84	6.15
35.50	35.19

indexed  
C.S.K.

Etiwanda  
28.51  
ST.  
6.12  
34.63

M.H. Rim = 36.95  
" FL = 30.46

39

EL. E. P. 35.19  
EL. curb 35.50

Top bank  
EL. 38.22

135

EL. 35.34

EL. 24.22  
High con.

approx  
100

ground  
EL. 35.0  
tree

LOT

CASTELLON ST

50

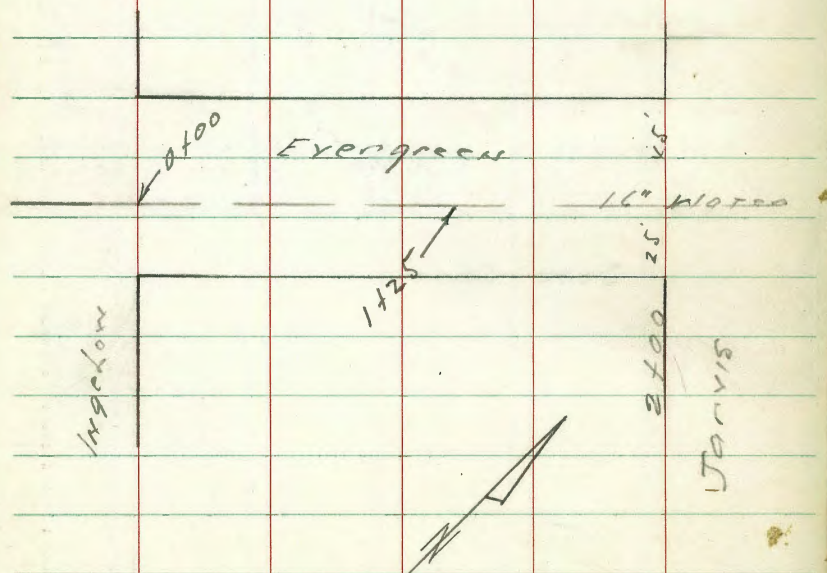
SOTO ST.

EL. Top of 16" Water Main  
on Evergreen

Between Ingelow & Jarvis

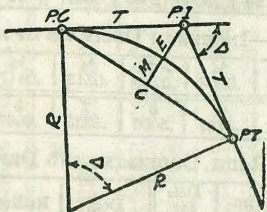
S.E. 7'				Janvis
MON.	7.87	30.72	22.85	Evergreen 1728-27
0+100	on PAV.	6.13	24.59	Moore 899 Green Roberts
"	Top 16" Water Line	9.67	21.05	5-29-47 W.O. 31283

1+25	ground	5.5	25.2
"	Top 16" Water Line	9.05	21.67



## DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

Copyright, 1914, by Eugene Dietzgen Co., New York City



### CURVE FORMULAS

Radius= $R = \frac{50}{\sin \frac{D}{2}}$  (1) Degree of Curve= $D$  and  $\sin \frac{D}{2} = \frac{50}{R}$  (2)

Tangent= $T = R \tan \frac{\Delta}{2}$  (3) Length of Curve= $L = 100 \frac{\Delta}{D}$  (4)

Middle ordinate= $M = R(1 - \cos \frac{\Delta}{2})$  (5)  $= R \text{vers} \frac{\Delta}{2}$  (6)

External= $E = T \tan \frac{\Delta}{4}$  (7)  $= R \div \cos \frac{\Delta}{2} - R$  (8)  $= R \text{exsec} \frac{\Delta}{2}$  (9)

Long Chord= $C = 2 R \sin \frac{\Delta}{2}$  (10)  $\Delta = \text{Central Angle}$

### EXPLANATION AND USE OF TABLES

Stations.—Given P. I.=Sta. 161+60.35 to find Sta. of P. C. and P. T.  $\Delta=62^\circ 10'$   $D=8^\circ 20'$ . From Table IV for  $1^\circ$  curve  $T=3454.1$  and  $+8\frac{1}{2}=414.49$  ft. From Table V correction= $36$  or  $T=414.85$  ft. P. C.=Sta. P. I.— $T=157+45.50$ . Also from (4)  $L=746.00$  and P. T.=Sta. P. C.+ $L=164+91.50$ .

Offsets.—Tangent offsets vary (approximately) directly with  $D$  and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft.=7.27 ft. Distance= $158 - \text{Sta. P. C.} = 54.50$ , hence offset= $7.27 (54.50 \div 100)^2 = 2.16$  ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus  $(54.50)^2 \div (2 \times 688.26) = 2.16$  ft.

Deflections.—Deflection angle= $\frac{1}{2} D$  for 100 ft.,  $\frac{1}{4} D$  for 50 ft., etc. For  $c$  ft.=(in minutes)  $.3 \times C \times D^2$  or=defl. for 1 ft. from Table III  $\times C$ . For Sta. 158 of above curve= $.3 \times 54.5 \times 8\frac{1}{2}=136.2'$  or  $2^\circ 16.2'$ , or= $2.50 \times 54.5=136.2'$  from Table III. For Sta. 159 deflection angle= $2^\circ 16.2' + 8^\circ 20' \div 2 = 6^\circ 26.2'$ , etc.

Externals.—May be found in similar manner to tangents. Thus  $E$  for curve above is 91.37. For from Table IV for  $1^\circ$  curve  $E=960.6$  for  $8^\circ 20'=960.6 \div 8\frac{1}{2}=91.27$  and from Table V correction= $10$  or  $E=91.37$  ft. Or suppose  $\Delta=32^\circ$  and  $E$  is measured and found to be 42 ft. What is  $D$ ? From Table IV  $E=230.9$  and  $\div 42=5.5$  or  $D=5^\circ 30'$ .

DISTANCES FROM CENTER OF ROADWAY FOR  
CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½  
For Single Track Embankment.

5725  
45  
102.25

135 2  
43 3  
94 9

765  
757  
1524  
762  
759

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

**Example**—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be  $41.9 + (20 - 16) \div 2$  or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.