

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.

2248  
222  
005  
50  
250

INDEXED

MICROFILMED

APR 14 1965

0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50

Distance  
ground is  
column at  
side stake  
side stake  
cut or fill  
If it does

DIRECTIONS FOR USE OF TABLES

TABLE No. XIV

Distance of slope stake from side or shoulder  
stake for any width roadway, slope 1:1 or 1:1.5  
If ground is nearly level, the cut or fill at side

IMPROVED TABLES  
AND  
INFORMATION

TABLE No. VIII

To find Tangent and Extension for curve of  
any other degree divide by degree of curve and  
add constant found in column of constants  
Degree of curve with a given  $T$  may be found  
by dividing tangent (or constant) by  
given tangent (or constant)  
The distance from a point on the tangent to  
the curve may be found by dividing the tangent  
length divided by twice the radius





v-28-50

Moore Sewer Const.  
899  
Crawford 54th & Univ. Ave

W10 31536

INDEXED

MA.

2 MAY 18 1950

FB 2022 "P" LINES

MMBP 54th & Univ.  
31092

272.28

16.39

5.32

C 111.07 ✓

+50

271.78

16.89

5.82

C 111.07 ✓

271.28

17.39

6.25

C 111.14 ✓

0+50

270.78

17.89

6.81

C 111.08 ✓

0+00 Ex. M.H. ?

270.28 = STUB EL.

18.39

6.88

C 111.51 ✓

BM BP 730 288.67

281.37

288.67 H.I.

Curve FB 2022-7

1750

1400

0750

348564 M.H. #1 = 0400

750

3

2450

288.67

H.I.

29734

Rod Missed →

277.14

~~11.53~~~~1.64~~~~1.89~~

277.14

~~20.20~~~~10.21~~

C 9.74 ✓

276.14

~~3.53~~~~2.27~~

C 10.26 ✓

275.14

~~3.53~~~~2.75~~

C 10.78 ✓

274.14

~~4.53~~~~3.47~~

C 11.06 ✗

273.78

~~4.89~~~~3.85~~

C 11.04 ✓

273.28

~~5.39~~~~4.38~~

C 11.01 ✓

272.78

~~5.89~~~~4.86~~

C 11.03 ✓

0150

284.09  
13.25  
3.31  
C 9.94 ✓

3  
Stub  
to North

2 + 2307 M.H. #3 = 0100

282.74  
14.60  
4.75  
C 9.85 ✓

282.94  
14.40  
4.75  
C 9.65 ✓

2

282.19  
15.15  
5.35  
C 9.80 ✓

150

280.99  
10.35  
6.70  
C 9.65 ✓

1

279.79  
17.55  
6.74  
C 10.84 ✓

279.79  
17.55  
8.05  
C 9.50 ✓

0150

278.59  
18.75  
9.28  
C 9.47 ✓

278.59  
18.78  
8.06  
C 10.69 ✓

1462.80 M.H. #2 = 0100

T.P. 9.95 297.34 128 28739

288.47

277.39  
19.95  
4.28  
C 10.67 ✓

277.39  
19.95  
10.30  
C 9.65 ✓

297.34 H.1.



4700

293.54  
11.69  
1.85  
C 9.84 ✓

450

292.19  
13.04  
3.11  
C 9.93 ✓

3

290.84  
14.39  
4.49  
C 9.90 ✓

450

289.49  
15.74  
5.93  
C 9.81 ✓

2

T.P.

8.26 305.23 037 296.97

~~~~~~~~~  
H.I.

288.14  
17.09  
7.24  
C 9.80 ✓

450

286.79  
10.55  
0.70  
C 9.85 ✓

4700

297.34  
H.I.

285.44  
11.90  
2.00  
C 9.90 ✓

X

1+35.27 M.H. #C = 0+00

306.83  
14.64  
4.75  
C 9.89 ✓

5

1+00

304.85  
16.62  
7.11  
C 9.51 ✓

0+50

O.N.A. NW. 8P.

54th + Univ. 11-45 321.47 310.02

302.05  
19.42  
10.30  
C 9.12 ✓

5 to 6 months

1+5098 M.H. #5 = 0+00

1+5398 = PLAN E 54th + UNIV AVE

321.47  
299.25  
13.45  
3.58  
C 9.87 ✓

299.49  
13.21  
3.58  
C 9.63 ✓

1+00

297.79  
14.91  
5.05  
C 9.86 ✓

0+50

296.14  
16.26  
6.49  
C 9.77 ✓

5 to 6 months

4+57.49 M.H. #41 = 0+00

295.09  
17.61  
7.82  
C 9.79 ✓

295.22  
17.48  
7.82  
C 9.66

J.P. 854 312.70 107 304.16

305.23

9.27 310.03  
467 319.30 1275 314.63

1+10 = Plug End on Univ.

600 327.38 0.09 321.38  
0+55

M.H. #6 = 0+00

321.47

310.02 BM

312.99  
~~17.39~~  
3.49  
C 10.90

~~327.38~~  
309.91  
~~71.56~~  
1.16  
C 10.40

321.47

Sewer Const.  
on 54th  
Sly to Rex St

0400  
2 + 43.35 M.H. #15 E Rex St

304.60  
11.93

3.50  
C 8.43 ✓

2  
303.69  
12.84

4.76  
C 8.08

150  
302.64  
13.89

6.26  
C 7.63

1  
301.59  
14.94

7.50  
C 7.44 ✓

150  
300.54  
15.99

8.40  
C 7.59 ✓

0400 = M.H. #5 EL. stub  
S. side M.H. #5

299.49

see p 5

651 316.53

316.53

~~649~~ ~~316.51~~

310.02

Sewer  
via Rex  
1082 310.01

TP 0 31 320.83 12.13 320.52

TP 0 41 332.65 12.98 332.24

11.60 = Plug end on Rex

345.80  
335.00  
10.80  
2.72  
C 7.50 ✓

8.00 345.80 0.66 337.88

1+20

337.88 H1  
327.40  
10.48  
2.67  
C 7.81 ✓

0+80

337.88 H  
319.80  
18.08  
11.81  
C 6.27 ✓

13.25 337.88 0.39 324.63

0+40

337.88

312.20  
12.88  
5.32  
C 7.50 ✓

11.99 325.02

TP 316.53 9.50 313.03

325.02

M.H. #15 = 0+00 89°55'30" R+

3.0460

Tie out 64.14 m line of Rex  
4.10 Along 5A to S

2+00

296.74  
10.85  
2.63  
C 8.22 ✓

1+50

293.29  
14.30  
4.30  
C 9.80

1+00

6.9%

307.59  
289.84  
17.75  
8.49  
C 9.26

0+50

13.8

307.59  
286.39  
21.20  
15.36  
✓ 7.84

M.H. #3 = 400

652 307.59 9.52 301.07

0.57 310.59 310.02

BM 5A University

307.59  
282.94  
24.65  
14.84  
9.81

1 + 00

Branch

0 + 50

Westerly

7.70

0 + 00 MH7

Westerly Branch 79° 34' left

MH MH  
3 + 24 29 #7

3 + 00

2 + 50

11.72

319.01

307.59 030 307 29

319 01

313.20

5.81  
76

C 3.05 ✓

309 35

9.66

5.71

C 3.95 ✓

305 50

319 01 HI bit forward

8 24

310.77 TP

12.86

323 43 New HI

see p 11

305.30

13.69

8 24

C 5.45 ✓

West Branch

305.50

13.51

8 24

C 5.27 ✓

303 64

15.37

9.28

6.09 ✓

300.19

18.82

11.72

7.10 ✓

1 + 50

$$\begin{array}{r} 313.27 \\ 10.16 \\ \underline{3.42} \\ C 6.74 \end{array}$$

1 + 00

$$\begin{array}{r} 310.62 \\ 12.81 \\ \underline{7.07} \\ C 5.74 \end{array}$$

0 + 50

5.3

$$\begin{array}{r} 323.43 \\ 307.97 \\ \underline{15.46} \\ \underline{9.94} \\ C 5.52 \end{array}$$

# MH 7

NE Branch 30° 31' R

HI carried forward 373.43 305.321 + 50 ends at  
existing cesspool
$$\begin{array}{r} 9.39 \\ 327.64 \\ \underline{319.01} \quad 0.76 \quad 318.25 \end{array}$$

$$\begin{array}{r} 329.64 \\ 317.05 \\ \underline{10.59} \\ \underline{1.65} \\ C 8.94 \end{array}$$



7 + 25

$$\begin{array}{r} 360.97 \\ 0.43 \\ \hline 360.54 \text{ TP} \\ 12.72 \\ \hline 373.26 \text{ HI} \end{array}$$

1 + 05

$$\begin{array}{r} 349.62 \\ 0.32 \\ \hline 349.30 \text{ TP} \\ 11.67 \\ \hline 360.97 \end{array}$$

0 + 25

0 + 65

$$\begin{array}{r} 337.10 \\ 0.11 \\ \hline 336.99 \text{ TP} \\ 12.23 \\ \hline 349.22 \text{ HI} \end{array}$$

0 + 45

0 + 45

$$\begin{array}{r} 332.22 \text{ TP} \\ 4.98 \\ \hline 337.10 \text{ HI} \end{array}$$

2 + 17 08 MH8 68° 08' 30" P

TP

285 332.22

17.29 335.07 0.65 322.78

2 + 00

323.43

373.26 HI

$$\begin{array}{r} 353.87 \\ 19.59 \\ \hline 10.87 \\ \hline C 8.52 \end{array}$$

360.97 HI

$$\begin{array}{r} 348.62 \\ 12.35 \\ 4.21 \\ \hline C 8.14 \end{array}$$

$$\begin{array}{r} 349.62 \text{ HI} \\ 341.41 \\ 8.21 \\ 2.27 \\ \hline C 5.94 \end{array}$$

349.62 HI

$$\begin{array}{r} 333.79 \\ 15.83 \\ 11.39 \\ \hline C 4.44 \end{array}$$

337.10 HI

$$\begin{array}{r} 327.33 \\ 9.77 \\ 6.01 \\ \hline C 3.76 \end{array}$$

337.10

$$\begin{array}{r} 322.03 \\ 15.07 \\ 11.68 \\ \hline C 3.39 \end{array}$$

316.83

$$\begin{array}{r} 18.24 \\ 10.66 \\ \hline C 7.58 \end{array}$$

317.00

$$\begin{array}{r} 18.07 \\ 10.66 \\ \hline C 7.41 \end{array}$$
nail on eye to left 17.5  
at 0 + 45
$$\begin{array}{r} 323.43 \\ 315.92 \\ 7.51 \\ 6.65 \\ \hline C 6.86 \end{array}$$

1 + 00

|       |    |
|-------|----|
| 373   | 26 |
| 361   | 13 |
| 12    | 13 |
| 3     | 89 |
| <hr/> |    |
| C 8   | 30 |

0 + 50

0.5  
1.6

|       |    |    |
|-------|----|----|
| 373   | 26 | H1 |
| 360   | 33 |    |
| 12    | 93 |    |
| 4     | 35 |    |
| <hr/> |    |    |
| C 8   | 58 |    |

2 19 meal  
2 420

MH9

20

|       |    |    |
|-------|----|----|
| 373   | 26 | H1 |
| 359   | 33 |    |
| 13    | 93 |    |
| 4     | 43 |    |
| <hr/> |    |    |
| C 9   | 50 |    |

|       |    |
|-------|----|
| 373   | 26 |
| 359   | 53 |
| 13    | 73 |
| 4     | 43 |
| <hr/> |    |
| C 9   | 30 |

2 + 00

1.60

3

|       |    |
|-------|----|
| 373   | 26 |
| 359   | 01 |
| 14    | 25 |
| 5     | 00 |
| <hr/> |    |
| C 9   | 25 |

10 + 65

Break

55  
20

|       |    |    |
|-------|----|----|
| 373   | 26 | H1 |
| 358   | 45 |    |
| 14    | 81 |    |
| 6     | 44 |    |
| <hr/> |    |    |
| C 8   | 37 |    |

6 + 45

Break 13 15

37326

|       |    |    |
|-------|----|----|
| 373   | 26 | H1 |
| 357   | 14 |    |
| 16    | 12 |    |
| 7     | 47 |    |
| <hr/> |    |    |
| C 8   | 65 |    |

+50

1.6%

365.48  
13.67  
6.01  
C 7.66

3 + 21.92

MH 10 18° 49 15 R.

364.68  
14.47  
7.23  
C 7.24

3 + 00

364.33  
14.82  
7.54  
C 7.28

2 + 50

1.6%

373 26 H1  
3 17  
370.09 TP  
9 06  
379.15 H1

379 15  
363.53  
15.62  
8 18  
C 7.44

2 + 00

362.73  
10.53  
3.17  
C 7.36

1 + 00

1 + 50

361.93  
11.33  
3.45  
C 7.88

end of Easterly Branch to N  
from Mt 3  
1+75 Plug  
✓

379 15  
438  
374 77 ground

379 15  
367 48  
11 67  
4 38  
C 7 29

1+50  
1.6%

367 08  
12 07  
4 87  
C 7 80

1+50

379 15 11  
366 28  
12 87  
4 71  
C 8 16

Westerly Branch to North  
from MH 4

2 + 50.

~~N.W.B.P.  
Univ. + 54th  
3/202~~

314.95  $\checkmark$   
305.97  $\checkmark$   
8.98  
1.88  
C 7.10

2 + 00

M.H.#4 - P.5  
I.L. 295.09  
979 cut  
304.88 EL. cross  
10.07  
314.95  $\checkmark$

303.82  $\checkmark$   
11.13  
4.09  
C 7.04

1 + 50

301.67  $\checkmark$   
13.28  
5.77  
C 7.51

1 + 00

A. 39/0

299.52  $\checkmark$   
15.43  
7.48  
C 7.95

0 + 50

297.37  
17.58  
9.06  
C 8.52

#  
MH 4 = 0 + 00 in University

314.95  $\checkmark$   
295.22  $\checkmark$   
19.73  
10.07  
9.66  $\checkmark$

stakes 8' Right of E. 16

2 + 50

X - Brit. Fund  
 314.95  
 188  
 313.07  
 11.01

329.97X  
 321.83 ✓  
 6.14  
 1.85  
 C 4.29

2 + 00

324.08  
 6.53  
 317.55  
 10.42  
 327.97X  
 1.85

319.18 ✓  
 8.79  
 2.97  
 C-5.82

1 + 50

326.12  
 11.47  
 337.59X

316.53 ✓  
 11.44  
 2.23  
 C 9.21

1 + 00

5.30/6

313.88 ✓  
 14.09  
 6.92  
 C-7.17

0 + 50

327.97X  
 311.23 ✓  
 16.74  
 8.15  
 C-8.59

3 + 10 62 MH# 11/15 20'35"

324.08X  
 308.58 ✓  
 15.50  
 6.53  
 C-8.97

3 + 00

324.08X  
 308.12 ✓  
 15.96  
 7.54  
 C-8.42

3 + 00.36

LR 5705<sup>1</sup>  
MH 13

1 + 50

1 + 00

6.5%

0 + 50

3 + 80.7

LR 1048<sup>35</sup>  
MH #12

3 + 50

5.3%

3 + 00

π

337.59X  
1.96  
335.63 TR  
9.00  
344.63X  
0.14  
344.49  
12.27  
356.76X

356.76X  
341.74  
15.02  
7.30  
C-5.72

356.76X  
338.48 ✓  
18.28  
10.53  
C-7.75

344.63X  
335.23 ✓  
9.40  
3.13  
C-6.27

344.63X  
331.98 ✓  
12.65  
6.24  
C-6.41

337.59X  
328.72 ✓  
8.87  
0.58  
C-8.29

Stub to E

327.13 ✓  
10.46  
4.26  
C-6.20

337.59X  
324.48 ✓  
13.11  
9.04  
C-4.07

2+57 M.H. #14 (46°-47.)

356.76 X  
0.74  
356.02  
12.68

413.12 X  
397.61 ✓  
15.51  
7.70  
C-7.81

2+36

368.70 X  
0.13  
368.57  
12.35

404.02 X  
386.60 ✓  
17.42  
10.23  
C-7.19

2+15

11.7 %  
12.4 %  
13.9 %  
15.1 %

Break

380.52  
12.69  
393.21 X  
1.30  
391.91  
12.11

393.21 X  
375.60 - 2+15 Brk. ✓  
17.61  
10.00  
C-7.61

2+00

404.02 X  
2.36  
401.66

380.92 X  
372.10 2+00 ✓  
8.82  
2.10  
C-6.72

1+70

401.66  
11.46  
413.12

380.92 X  
1+70 365.11 ✓  
15.81  
7.90  
C-7.91

1+40

Break

369.70 X 1+40  
358.12 Brk. ✓  
10.58  
3.11  
C-7.47

1+00

11.7 %

368.70 X  
353.14 X ✓  
15.26  
7.67  
C-7.59

0+50

356.76 X  
347.59 ✓  
9.17  
1.45  
C-7.72



1 + 00 Plug end of line

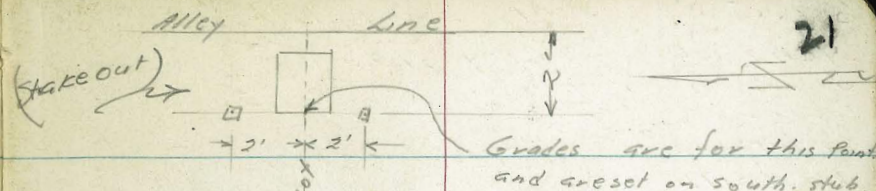
0 + 50

413.127  
 399.61 ✓  
 13.51  
 2.70  
 c-10.81

413.127  
 398.61 ✓  
 14.51  
 5.10  
 c-9.41

5-23-50  
Hendricks  
McCoy  
Greer  
Crawford  
NO#31771

State Water Services  
Alley Block 35 City Hts.  
Orig. 7782-L



| Sta. | + HI. | - HI. | Elev. Stake | Elev. Grade | Cor. F.          | Sta. | - HI. | Elev. Stake | Elev. Grade | Cor. F.          |
|------|-------|-------|-------------|-------------|------------------|------|-------|-------------|-------------|------------------|
| 5+78 |       |       | 366.38      | 365.99      | CO <sup>40</sup> | 5+76 |       | 366.36      | 365.95      | CO <sup>41</sup> |
| 5+25 |       |       | 365.82      | 365.37      | CO <sup>45</sup> | 5+35 |       | 365.85      | 365.52      | CO <sup>33</sup> |
| 5+22 |       |       | 365.60      | 365.33      | CO <sup>27</sup> | 4+89 |       | 364.96      | 364.90      | CO <sup>06</sup> |
| 4+10 |       |       | 364.56      | 363.82      | CO <sup>74</sup> | 4+56 |       | 364.97      | 364.45      | CO <sup>52</sup> |
| 3+60 |       |       | 363.57      | 363.15      | CO <sup>42</sup> | 4+00 |       | 364.28      | 363.69      | CO <sup>59</sup> |
| 3+11 |       |       | 363.08      | 362.49      | CO <sup>59</sup> | 3+40 |       | 363.36      | 362.88      | CO <sup>48</sup> |
| 2+69 |       |       | 362.80      | 361.95      | CO <sup>85</sup> | 2+79 |       | 362.60      | 362.07      | CO <sup>53</sup> |
| 1+99 |       |       | 361.56      | 361.23      | CO <sup>33</sup> | 2+19 |       | 362.00      | 361.43      | CO <sup>57</sup> |
| 1+50 |       |       | 361.10      | 360.74      | CO <sup>35</sup> | 1+65 |       | 361.22      | 360.89      | CO <sup>53</sup> |
| 1+03 |       |       | 360.80      | 360.27      | CO <sup>53</sup> | 1+28 |       | 360.53      | 360.52      | CO <sup>01</sup> |
| 0+29 |       |       | 359.44      | 359.28      | CO <sup>16</sup> | 0+75 |       | 360.53      | 359.98      | CO <sup>55</sup> |
|      |       |       |             |             |                  | 0+03 |       | 358.63      | 358.53      | CO <sup>10</sup> |

INDEXED  
JK  
JUL 10 1950

BM (with self-Reading Rod) 359.54 NWBR University @ 36th. St.

6-12-50  
Hendricks  
Johnson  
Greer  
Crawford  
NO# 31771

Stake Alley BIK 35  
(City Hts.)  
for paving  
(Elevs. taken with  
a self-Reading Rod.)

22

| Sta.  | Elev.<br>Stake H.       | Elev.<br>Grade | Cut<br>or<br>Fill | Offset | Elev.<br>Stake H. | Elev.<br>Grade | Cut<br>or<br>Fill | Offset      |
|-------|-------------------------|----------------|-------------------|--------|-------------------|----------------|-------------------|-------------|
| 3+71  | 363.67                  | 363.36         | C0 <sup>31</sup>  | 1'     | 363.90            | 363.36         | C0 <sup>54</sup>  | 0.20'       |
| 3+44  | 363.41                  | 363.00         | C0 <sup>41</sup>  | 0.70   | 365.47            | 363.00         | C2 <sup>47</sup>  | 0.83'       |
| 3+17  | 367.34                  | 362.63         | C4 <sup>71</sup>  | 0.50   | 362.89            | 362.63         | C0 <sup>26</sup>  | 0.30        |
| 2+90  | 367.33                  | 362.27         | C5 <sup>06</sup>  | 0.50   | 362.72            | 362.27         | C0 <sup>45</sup>  | 0.30        |
| 2+70  | 362.75                  | 362.02         | C0 <sup>73</sup>  | 2'     | 362.45            | 362.02         | C0 <sup>43</sup>  | 0.40        |
| 2+50  | 362.24                  | 361.80         | C0 <sup>44</sup>  | 2'     | 363.38            | 361.80         | C1 <sup>58</sup>  | 1'          |
| 2+16  | 361.65                  | 361.46         | C0 <sup>19</sup>  | 1'     | 361.85            | 361.46         | C0 <sup>39</sup>  | 2'          |
| 1+82  | 361.31                  | 361.12         | C0 <sup>19</sup>  | 1'     | 361.13            | 361.12         | C0 <sup>01</sup>  | 2'          |
| 1+48  | 361.00                  | 360.78         | C0 <sup>22</sup>  | 2'     | 361.13            | 360.78         | C0 <sup>35</sup>  | 1'          |
| 1+14  | 360.99                  | 360.44         | C0 <sup>54</sup>  | 2'     | 361.36            | 360.44         | C0 <sup>92</sup>  | 0.82'       |
| 0+80  | 360.51                  | 360.10         | C0 <sup>41</sup>  | 2'     | 360.70            | 360.10         | C0 <sup>60</sup>  | 2'          |
| 0+60  | 360.17                  | 359.86         | C0 <sup>31</sup>  | 1'     | 360.67            | 359.85         | C0 <sup>82</sup>  | 0.40        |
| 0+40  | 360.55                  | 359.56         | C0 <sup>99</sup>  | 0.14'  | 360.49            | 359.50         | C0 <sup>99</sup>  | 0.14 inside |
| 0+20  | 360.25                  | 359.18         | C1 <sup>07</sup>  | 0.10'  | 360.65            | 359.05         | C1 <sup>60</sup>  | 0.13'       |
| 0+100 | N.L. Univ.<br>E. 358.73 | 358.72         |                   |        |                   | 358.49         |                   |             |

INDEXED

JUL 10 1950

BM

359.54

NWBP 3614 & University

Wiley Block 35  
City Hts. Cont'd

22

| Sta.   | Elev. Stake Lt. | Elev. Grade | Cut or Fill | offset           | Elev. Stake Rt. | Elev. Grade | Cut or Fill      | offset       |
|--------|-----------------|-------------|-------------|------------------|-----------------|-------------|------------------|--------------|
|        |                 | 365.83      |             |                  |                 |             |                  |              |
| 6+00 = | 30. Line Park   | 365.95      |             |                  | 365.64          | 365.76      |                  |              |
| 5+80   |                 | 366.75      | 366.06      | CO <sup>69</sup> | 366.24          | 366.02      | CO <sup>22</sup> | 2'           |
| 5+60   |                 | 367.00      | 365.92      | CI <sup>80</sup> | 367.72          | 365.92      | CI <sup>80</sup> | Line         |
| 5+33   |                 | 365.67      | 365.55      | CO <sup>12</sup> | 365.93          | 365.55      | CO <sup>28</sup> | 1'           |
| 5+06   |                 | 365.41      | 365.19      | CO <sup>22</sup> | 364.97          | 365.19      | FO <sup>22</sup> | 2'           |
| 4+79   |                 | 365.15      | 364.82      | CO <sup>33</sup> | 364.70          | 364.82      | FO <sup>12</sup> | 1'           |
| 4+52   |                 | 364.70      | 364.46      | CO <sup>24</sup> | 365.63          | 364.46      | CI <sup>17</sup> | 0.36' inside |
| 4+25   |                 | 365.23      | 364.09      | CI <sup>14</sup> | 364.40          | 364.09      | CO <sup>31</sup> | 2'           |
| 3+98   |                 | 364.21      | 363.73      | CO <sup>48</sup> | 364.06          | 363.73      | CO <sup>33</sup> | 2'           |

6-16-50  
Hendricks  
Johnson  
Greer  
Graniford

Stake Eastside Loring St.

Lamont to P.L.

(4)

INDEXED

JUL 10 1950

Ch Grades

|      |                |                    |       |        |                   |                 |
|------|----------------|--------------------|-------|--------|-------------------|-----------------|
| 4+50 |                | C <sup>6</sup>     | 233.8 | 223.25 | C10 <sup>5</sup>  |                 |
| 4+00 |                | C <sup>6</sup>     | 234.4 | 223.00 | C11 <sup>4</sup>  |                 |
| 3+50 |                | 8 <sup>4</sup>     | 232.0 | 222.75 | C9 <sup>3</sup>   |                 |
| 3+00 |                | 6.7                | 233.7 | 222.50 | C11 <sup>3</sup>  |                 |
| 2+80 |                | 5.7                | 234.7 | 222.00 | C12 <sup>3</sup>  |                 |
| 2+40 |                | 6 <sup>0</sup>     | 234.4 | 222.00 | C14 <sup>4</sup>  |                 |
| 2+00 |                | 9 <sup>1</sup>     | 231.3 | 220.50 | C10 <sup>8</sup>  |                 |
| TP   | 11.29          | 240.41             | 0.93  | 229.12 |                   |                 |
| 1+60 |                | 9.8                | 226.5 | 217.90 | C8 <sup>5</sup>   |                 |
| 1+20 |                | 230 <sup>0.5</sup> | 1.82  | 220.75 | 214.62            | C6 <sup>4</sup> |
| TP   |                |                    |       |        |                   |                 |
| 0+80 |                | 7.1                | 215.5 | 212.10 | C3 <sup>4</sup>   |                 |
| 0+40 |                | 8.5                | 214.1 | 210.55 | C3.5              |                 |
| 0+00 | S. line Lamont | 9 <sup>3</sup>     | 213.4 | 210.80 | C2 <sup>1.5</sup> |                 |

BM 15.72 222.57

206.85

SE 7' ct 3' S of SL Loring St.  
on Lamont.

6-22-50 State Alley B1K 54  
 Hendricks Fairmount. Add  
 Johnson  
 Crawford Drig 7713-L  
 NO# 31376

With self-reading Rod.

INDEXED  
 W.K.  
 JUL 10 1950

| Sta.        | Elev. Stake                 | Elev. Grade                 | Cut or fill                            | offset | Elev. Stake | Elev. Grade                 | Cut or fill                            | offset    |
|-------------|-----------------------------|-----------------------------|----------------------------------------|--------|-------------|-----------------------------|----------------------------------------|-----------|
| 4415        | 353.18                      | 352.54<br><del>352.64</del> | CO <sup>64</sup> ✓<br>CO <sup>54</sup> | 0.50'  | 353.25      | 352.54<br><del>352.64</del> | CO <sup>71</sup> ✓<br>CO <sup>61</sup> | 2'        |
| -3+84<br>75 | 353.50<br><del>353.00</del> | 352.37<br><del>352.49</del> | C1 <sup>13</sup> ✓<br>C1 <sup>14</sup> | 0.08'  | 353.68      | 352.37<br><del>352.49</del> | C1 <sup>31</sup> ✓<br>C1 <sup>19</sup> | 0.17'     |
| 3+53        | 352.54                      | 352.34<br><del>352.34</del> | CO <sup>30</sup>                       | 2'     | 353.55      | 352.20<br><del>352.34</del> | C1 <sup>35</sup> ✓                     | 0.21      |
| 3+22        | 352.73                      | 352.03<br><del>352.49</del> | CO <sup>70</sup> ✓<br>CO <sup>54</sup> | 2'     | 353.24      | 352.03<br><del>352.19</del> | C1 <sup>21</sup> ✓                     | 0.26      |
| 2+91        | 352.39                      | 351.86<br><del>352.04</del> | CO <sup>53</sup> ✓<br>CO <sup>35</sup> | 2'     | 352.92      | 351.86<br><del>352.04</del> | C1 <sup>06</sup>                       | 2'        |
| 2+60        | 352.59                      | 351.69<br><del>351.89</del> | CO <sup>90</sup> ✓<br>CO <sup>70</sup> | 2'     | 353.23      | 351.69<br><del>351.89</del> | C1 <sup>54</sup> ✓                     | 0.11      |
| 2+40        | 351.99                      | 351.66<br><del>351.86</del> | CO <sup>33</sup> ✓<br>CO <sup>13</sup> | 1'     | 352.95      | 351.66<br><del>351.86</del> | C1 <sup>29</sup> ✓                     | 2'        |
| 2+20        | 353.20                      | 351.73<br><del>351.93</del> | C1 <sup>47</sup> ✓<br>C1 <sup>37</sup> | 0.07   | 352.41      | 351.73<br><del>351.93</del> | CO <sup>69</sup> ✓<br>CO <sup>49</sup> | 2'        |
| 1+95        | 352.37                      | 351.94<br><del>352.09</del> | CO <sup>73</sup> ✓<br>CO <sup>28</sup> | 0.50'  | 352.67      | 351.94<br><del>352.09</del> | CO <sup>73</sup> ✓<br>CO <sup>58</sup> | 1         |
| 1+70        | 352.60                      | 352.15<br><del>352.25</del> | CO <sup>45</sup> ✓<br>CO <sup>35</sup> | 2'     | 352.64      | 352.15<br><del>352.25</del> | CO <sup>49</sup> ✓<br>CO <sup>39</sup> | 2'        |
| 1+45        | 352.55                      | 352.36<br><del>352.41</del> | CO <sup>19</sup> ✓<br>CO <sup>14</sup> | 2'     | 353.20      | 352.36<br><del>352.41</del> | CO <sup>84</sup> ✓<br>CO <sup>79</sup> | (0.58 in) |
| 1+20        | 352.63                      | 352.57                      | CO <sup>06</sup>                       | 2'     | 353.17      | 352.57                      | CO <sup>60</sup>                       | (0.2 in)  |
| 1+00        | 352.83                      | 352.73                      | CO <sup>10</sup>                       | 2'     | 353.36      | 352.74                      | CO <sup>62</sup>                       | 0.21      |
| 0+80        | 353.05                      | 352.87                      | CO <sup>18</sup> ✓                     | 2'     | 353.55      | 353.03                      | CO <sup>52</sup> ✓                     | 0.5       |
| 0+45        | 353.48                      | 353.17                      | CO <sup>31</sup> ✓                     | 0.50'  | 353.75      | 353.34                      | CO <sup>41</sup> ✓                     | 2'        |
| 0+10        | 353.90                      | 353.46                      | CO <sup>44</sup> ✓                     | 0.50'  | 353.83      | 353.66                      | CO <sup>17</sup> ✓                     | 1'        |
| 0+00        | H. Line Pole<br>352.51      | 352.54                      | Ex. Pav.                               |        | 353.74      | 353.78                      | Ex. Pav.                               |           |

B.M.

35416

NWBP Orange & Highland

| Sta.    | Elev. Stake | Elev. Grade | Cut or fill                        | Offset | Elev. Stake | Elev. Grade | Cut or fill                        | Offset |
|---------|-------------|-------------|------------------------------------|--------|-------------|-------------|------------------------------------|--------|
| 5+77.28 | 353.40      | 353.40      | Grade                              |        | 353.40      | 353.40      | Grade                              |        |
| 5+70    | 353.59      | 353.38      | CO <sup>21</sup> / <sub>38</sub> ✓ | 2'     | 353.61      | 353.38      | CO <sup>23</sup> / <sub>38</sub> ✓ | 2'     |
| 5+39    | 353.60      | 353.22      | CO <sup>35</sup> / <sub>36</sub> ✓ | 2'     | 353.54      | 353.22      | CO <sup>35</sup> / <sub>36</sub> ✓ | 2'     |
| 5+08    | 353.66      | 353.05      | CO <sup>61</sup> / <sub>57</sub> ✓ | 0.70'  | 353.39      | 353.24      | CO <sup>34</sup> / <sub>30</sub> ✓ | 2'     |
| 4+77    | 353.41      | 352.89      | CO <sup>53</sup> / <sub>47</sub> ✓ | 1'     | 353.67      | 352.88      | CO <sup>77</sup> / <sub>73</sub> ✓ | 2'     |
| 4+46    | 353.05      | 352.71      | CO <sup>34</sup> / <sub>26</sub> ✓ | 1'     | 353.25      | 352.94      | CO <sup>54</sup> / <sub>44</sub> ✓ | 2'     |

6-2750  
Hendricks  
Johnson  
Crawford  
Bunch  
NO# 62069

Stake 18" Conc. Drain  
Block 6 Paradise Hills  
Dwg. 3389.B

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INDEXED

mk  
JUL 10 1950

|                |        |        |        |                       |
|----------------|--------|--------|--------|-----------------------|
| 2+24.4 Ex Pipe | 4.60   | 212.02 | 212.02 | Ex Pipe               |
| 2+00           | 3.08   | 213.54 | 210.52 | C3 01                 |
| 1+60.9 L. Lt.  | 5.66   | 210.96 | 208.23 | C2 72                 |
| 1+40           | 6.35   | 210.27 | 206.96 | C3 31                 |
| 1+05           | 7.58   | 209.04 | 204.84 | C4 201                |
| 0+70           | 8.54   | 208.04 | 202.73 | C5 31                 |
| 0+35           | 11.46  | 205.16 | 200.61 | C4 52                 |
| 0+00           | 15.00  | 201.62 | 198.50 | C3 12                 |
| CK 0+00        | "      | 20.22  | 196.40 |                       |
| BM 13.17       | 216.63 |        | 203.45 | SWBP Potomac & Rancho |



9-19-50

Stake. Cb. Ret.

Hendricks

25th. & G Sts.

Cota

0119.7783

Greer

Crawford

VVO# 31220

INDICATE

APR 11 1951

|              |      |        |        |                    |
|--------------|------|--------|--------|--------------------|
| EC on G St.) | 3.63 | 171.55 | 171.40 | CO <sup>15</sup> / |
| #1           | HE   | 3.53   | 171.65 | FO <sup>15</sup> / |
| BC on 25th)  | 2.97 | 172.21 | 172.21 | Ex Cb.             |

|             |         |        |        |                    |
|-------------|---------|--------|--------|--------------------|
| EC on G.    | 5.91    | 169.27 | 169.90 | FO <sup>43</sup> / |
| #1          | SE Ret. | 5.64   | 169.54 | FO <sup>46</sup> / |
| BC on 25th) | 5.26    | 169.92 | 169.92 | Ex Cb.             |

BM. 300 175.18

172.18

8-20-50 State Water Services  
 Hendricks Alley Block 99 City Hts  
 Greer  
 Cota  
 No # 31833 Dwg. 8029-K

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29

Elev.  
 (South Stake) Elev. Grade

|                                                  | Elev.<br>(South Stake) | Elev. Grade |                     |        |        |                           |
|--------------------------------------------------|------------------------|-------------|---------------------|--------|--------|---------------------------|
| (CKCB. 6-01.5<br>Lt. 546401'S<br>FB. 1773 P. 77) | 335.91                 | 335.91      |                     |        |        | Et.                       |
| 5+56                                             | 335.91                 | 335.50      | CO <sup>41</sup> ✓  |        |        |                           |
| 5+43                                             | 335.77                 | 335.37      | CO <sup>40</sup> ✓  | 5+74   | 336.19 | 335.59 CO <sup>60</sup>   |
| 4+98                                             | 335.31                 | 334.92      | CO <sup>39</sup> ✓  | 5+04   | 335.33 | 334.98 CO <sup>35</sup> ✓ |
| 4+29                                             | 334.35                 | 334.23      | CO <sup>13</sup> ✓  | 4+78   | 335.07 | 334.72 CO <sup>35</sup> ✓ |
| 3+98                                             | TP. 334.17             | 333.81      | CO <sup>36</sup> ✓  | 4+36   | 334.66 | 334.30 CO <sup>36</sup> ✓ |
| 3+37                                             | 333.45                 | 332.93      | CO <sup>52</sup> ✓  | 4+22   | 334.42 | 334.16 CO <sup>26</sup> ✓ |
| 3+08.5                                           | 332.95                 | 332.58      | CO <sup>27</sup> ✓  | 3+50.5 | 333.77 | 333.18 CO <sup>57</sup> ✓ |
| 2+66.5                                           | 332.25                 | 331.97      | CO <sup>28</sup> ✓  | 3+06   | 332.82 | 332.57 CO <sup>25</sup> ✓ |
| 2+25                                             | 332.11                 | 331.32      | CO <sup>79</sup> ✓  | 2+49   | 332.31 | 331.79 CO <sup>52</sup> ✓ |
| 1+75                                             | 331.39                 | 330.46      | CO <sup>83</sup> ✓  | 1+59   | 330.60 | 330.30 CO <sup>30</sup> ✓ |
| 1+37                                             | 330.34                 | 329.70      | CO <sup>62</sup> ✓  | 1+23   | 330.05 | 329.58 CO <sup>47</sup> ✓ |
| 0+79                                             | 328.97                 | 328.53      | CO <sup>44</sup> ✓  | 0+75   | 328.99 | 328.56 CO <sup>43</sup> ✓ |
| 0+33                                             | 327.60                 | 326.56      | CO <sup>104</sup> ✓ | 0+50   | 328.36 | 327.67 CO <sup>69</sup> ✓ |

D-100 N. side Myrtle

TP. 325.96

BM

326.11

NWBP. Myrtle @ Van Dyke

9-20-50 Stake Crows feet.

Hendricks west side Santa Barbara  
Greer Pescadero to Bermuda (BM) (out)  
Cota

200.83 SWBP Bermuda &amp; Santa Barbara

|                                             |            |          |
|---------------------------------------------|------------|----------|
| EC                                          |            | 200.25   |
| #2                                          |            | 201.53   |
| #1                                          |            | 202.53 ✓ |
| 2+94 BC C&P                                 |            | 203.33 ✓ |
| 2+75                                        |            | 204.53 ✓ |
| 2+50                                        |            | 206.10 ✓ |
| 2+25                                        |            | 207.93 ✓ |
| 2+00                                        | TP. 20872  | 209.76 ✓ |
| 1+62 EC Alley Ret.                          |            | 212.37 ✓ |
| BC Alley South                              |            | 212.60 ✓ |
| PL Alley South                              |            | 212.98 ✓ |
| PL Alley North                              |            | 214.35 ✓ |
| EC Alley "                                  |            | 214.14 ✓ |
| 1+38 BC Alley Ret.                          |            | 214.21 ✓ |
| 1+00                                        | TP. 217.26 | 216.58 ✓ |
| 0+66.67                                     |            | 218.83 ✓ |
| 0+33                                        |            | 221.08 ✓ |
| 0+00                                        |            | 223.33 ✓ |
| #1                                          |            | 223.35 ✓ |
| PL SW 1/4 side Santa Barbara (22305)<br>Et. |            | 223.08   |

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APP 11 1951

BM

226.55

SE Top Hydt. Santa Barbara &amp; Pescadero

9-21-50 Stake Cross feet  
 Hendricks Santa Barbara  
 Orchard to Pescadero

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|                       | Rt                     | Lt                    |
|-----------------------|------------------------|-----------------------|
|                       | (226.51) 226.55        |                       |
| PL (224.30)           | 224.33 ✓               |                       |
| #1                    | 225.24 ✓               |                       |
| 2+98 BC Ret.          | 226.08 ✓               |                       |
| 2+65                  | 228.40 ✓               |                       |
| 2+70                  | 230.86 ✓               |                       |
| 1+95                  | TP. 232.62<br>233.33 ✓ |                       |
| 1+62 EC Alley Ret.    | 235.65 ✓               | 236.65 ✓              |
| BC Alley Ret          | 235.94 ✓               | 236.89 ✓              |
| PL Alley South        | 236.56 ✓               | 237.30 ✓              |
| PL Alley North        | 237.60 ✓               | 238.62 ✓              |
| EC Alley Ret.         | 237.38 ✓               | 238.36 ✓              |
| 1+38 BC Alley Ret.    | 237.50 ✓               | 238.45 ✓              |
| 1+05                  | 240.26 ✓               | 241.02 ✓              |
| 0+70                  | 243.19 ✓               | TP 242.04<br>243.75 ✓ |
| 0+35                  | 246.12 ✓               | 246.49 ✓              |
| 0+00 3rd line Orchard | 249.05 ✓               | 249.23 ✓              |
| #V                    | 249.32 ✓               |                       |
| P.L Orchard           | 249.22 ✓               |                       |
| B17                   | 250.08                 |                       |

SE Tur Hydt. Santa Barbara  
 & Pescadero

SEBP Orchard & Santa Barbara

9-21-50

Crows feet  
Santa Barbara & Orchard  
Between Del Mar & Venice

|                              |            |                              |          |
|------------------------------|------------|------------------------------|----------|
| 0175.34 Orchard.             | (247.77 E) |                              |          |
| 0150                         | 249.10 ✓   |                              |          |
| 0120                         | 250.60 ✓   |                              |          |
| EC-0410 Orchard.             | 251.01 ✓   |                              |          |
| #2                           | 251.20 ✓   | (P.L Orchard)                | 250.85 ✓ |
| #1                           | 251.32 ✓   | #1                           | 251.11 ✓ |
| 3180 BC cb Ret Santa Barbara | 251.43 ✓   | 3100 BC                      | 251.26 ✓ |
| 2180                         | 251.63 ✓   | E 2140                       | 251.56 ✓ |
| 2155                         | 251.88 ✓   | subgrade<br>251.58 251.99    | 251.94   |
| 2130                         | 252.13 ✓   | sub<br>251.89 / 252.19       | 252.32 ✓ |
| 2105                         | 252.38 ✓   | 252.21 / 252.61              | 252.70   |
| 1180                         | 252.63 ✓   | 252.52 252.87<br>23<br>25    | 252.08   |
| 1162 EC Alley Ret            | 252.81 ✓   |                              | 253.36 ✓ |
| BC Alley Ret                 | 252.87 ✓   |                              | 253.45 ✓ |
| PL Alley on south            | 253.03 ✓   |                              | 253.70 ✓ |
| 1138 PL Alley on north       | 253.00 ✓   |                              | 253.95 ✓ |
| EC Alley Ret                 | 252.58 ✓   |                              | 253.49 ✓ |
| 1138 BC Alley Ret            | 253.44 ✓   |                              | 253.34   |
| B17                          | 250.08     | SCBP Orchard & Santa Barbara |          |

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9-21-50  
Hendricks  
Cota  
Greer  
120431629

Stake Cbs westside  
Santa Barbara  
Del Monte to Santa Cruz  
Or 97666-L

INDEXED

APP 11 1951

0186

24230 244.19

CO<sup>11</sup>

0186

24260 242.45

CO<sup>15</sup>

0128

24086 24083

CO<sup>03</sup>

0106 EC Cb Ret

23952 23956

CO<sup>00</sup>

0100 So line Del Monte

23921

FOOT

#2

23916 23917

FOOT

#1

23905 23898

CO<sup>07</sup>

BC

23860

EX Cb.

-20'

23797

(17)

23744

NEBP Santa Barbara Co Del Monte

9-22-50

State Cb Rets.

Hendricks Alley Block 199 &amp; 200

Cota Mission Beach

WO# 20640

D-49.79-111

Elev.  
516.1Elev  
Grade

Sewer MH

FL  
Rim

}

Block 196

7.54 - 1.94  
5.35 0.23

FL

}

Block 199

7.46 - 1.88  
5.43 0.15

Sewer MH Rim

Alley Block 200

Grate for Type 'D' Catch Basin 6.46

-0.88

Grate

BC 3' Radius on North 5.86

-0.28

-0.32

CO<sup>04</sup>

P.L. on North

5.93

-0.35

-0.31

FO<sup>04</sup> ✓

P.L. on South

5.95

-0.37

-0.28

FO<sup>09</sup> ✓

BC of 3' Radius on South

6.21

-0.63

-0.29

FO<sup>34</sup> ✓

Alley Block 199

BC 3' Radius on North

5.23

0.35

0.25

CO<sup>10</sup> ✓

P.L. on North

5.25

0.33

0.40

FO<sup>07</sup> ✓

BC 3' Radius on South

5.46

0.12

0.24

FO<sup>12</sup> ✓

P.L. on South

5.30

0.28

0.32

FO<sup>04</sup>

T.P.

5.34

5.58

8.04

0.24

B.M.

1.24

8.32

7.08

BP Sea Wall &amp; San Jose Pl.

RECEIVED  
APR 10 1951

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9-22-50 Crow's feet  
 Hendricks Santa Barbara  
 Co. 10  
 Greer Bermuda to Pt. Loma Ave.  
 B17 DWG 7669-L

182.26

SWBP Pt. Loma &amp; Santa Barbara

2+73.52 188.43 ✓

2+61.13 188.33 ✓

187.33 ✓

2+43.82 188.83 ✓

188.01 ✓

2+13.61 190.45 ✓

189.56 ✓

1+83.65 192.08 ✓

191.09 ✓

1+53.70 EC Alley Ret 193.70 ✓

192.62

TR 94.14

35.66 BC Alley Ret 193.91 ✓

192.82

Pl on Se 194.30 ✓

193.20

Pl on Host 195.16 ✓

194.13 ✓

EC Alley Ret 194.94 ✓

193.91 ✓

1+29.70 BC Alley Ret 195.00 ✓

193.97 ✓

1+01.21 196.55 ✓

195.60 ✓

0+72.71 198.09 ✓

197.22 ✓

0+44.21 199.64 ✓

198.85 ✓

0+15.71 (E1 201.10) 201.18

200.47 ✓

0+06 BC Ret 200.75 ✓

200.75 ✓

41 (41) 200.72 ✓

200.72 ✓

EC Pl. Bermuda 200.28

200.28 C+Pay.

B17



9.24.50 Crows feet Venice  
Hendricks Del Mar to Orchard  
Johnson  
Greer  
Shepard

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|                      |          |                               |
|----------------------|----------|-------------------------------|
| BC Alley             | 218.75 ✓ | 220.41 ✓                      |
| PL on South          | 219.10 ✓ | 220.75                        |
| PL on North          | 219.35 ✓ | 221.05 ✓                      |
| EC Alley Ret         | 219.03 ✓ | 220.69 ✓                      |
| 1+38 BC Alley Ret    |          | 220.65 ✓                      |
| 1+12                 |          | 221.12 ✓                      |
| 0+88                 |          | 221.62 ✓                      |
| 0+56                 |          | 222.12 ✓                      |
| 0+28                 |          | 222.62 ✓                      |
| 0+00 30 line Del Mar |          | 223.12                        |
| BM.                  | 216.36   | 28 Diss. N E Orchard & Venice |

Grades Orchard  
Venice to Catalina

|         |                  |       |          |
|---------|------------------|-------|----------|
| 4+13.21 | <sup>27</sup>    |       | 198.95 ✓ |
| 3+86.30 | <sup>27</sup>    |       | 199.42 ✓ |
| 3+59.39 | <sup>27</sup>    |       | 199.89 ✓ |
| 3+32.48 | <sup>27</sup>    |       | 200.36 ✓ |
| 3+05.57 | <sup>27</sup>    |       | 200.83 ✓ |
| 2+72.57 | <sup>33</sup>    |       | 201.93 ✓ |
| 2+46.09 | <sup>2651</sup>  |       | 203.28 ✓ |
| TP      | <sup>1.67</sup>  | 20599 | 12.85    |
| 2+19.58 | <sup>2657</sup>  |       | 204.63 ✓ |
| 1+93.07 |                  |       | 205.98 ✓ |
| 1+66.56 |                  |       | 207.33 ✓ |
| 1+40.05 |                  |       | 208.68 ✓ |
| 1+13.54 |                  |       | 210.03 ✓ |
| 0+87.03 |                  |       | 211.78 ✓ |
| 0+60.52 |                  |       | 212.73 ✓ |
| 0+34.01 | <sup>2651</sup>  |       | 214.08 ✓ |
| 0+22    | <sup>14.01</sup> |       | 214.80 ✓ |
| 0+00    |                  |       | 215.79 ✓ |

|         |               |          |
|---------|---------------|----------|
| 5153.84 | ACRY.         | 196.36   |
| 5120.92 |               | 196.96 ✓ |
| 4188.01 | <sup>33</sup> | 197.57 ✓ |
| 4155.10 | <sup>33</sup> | 198.18 ✓ |
| 4140.10 | Alley         | 198.48 ✓ |

B17. 0.79 217.15 216.36

26 DISC. NE Car Venice & Orchard.

State Grades  
Del Monte

Santa Barbara to Guizot

BM 7 7.46 21805 21803

SW. BP Guizot & Del Monte

|         |                        |          |
|---------|------------------------|----------|
| 6+60.10 |                        | 215.79   |
| 6+30.10 |                        | 215.75   |
| 6+00.10 |                        | 215.82   |
| 5+60    |                        | 217.08 ✓ |
| 5+30    |                        | 217.95 ✓ |
| 5+00    |                        | 218.82 ✓ |
| 4+90    |                        | —        |
| 4+50    |                        | 220.37 ✓ |
| 4+40    |                        | 220.73 ✓ |
| 3+98    |                        | 222.40 ✓ |
| 3+56    |                        | 224.07 ✓ |
| 3+14    | T.P. 0.10 225.51 12.46 | 225.41   |
|         |                        | 225.74 ✓ |
| 2+72    |                        | 227.41 ✓ |
| 2+30    |                        | 229.08 ✓ |
| 1+88    |                        | 230.75 ✓ |
| 1+46    |                        | 232.42 ✓ |
| 1+04    |                        | 234.09 ✓ |
| 0+62    |                        | 235.76 ✓ |
| 0+20    |                        | 237.43 ✓ |
| 0+00    |                        | 237.82 ✓ |

BM 7 0.32 237.81

237.49

NE BP Santa Barbara & Del Monte

£ Venice 57

Del Mar to Orchard. Dwg 7671

|      |                  |        |   |
|------|------------------|--------|---|
| 1+62 | EX Pav           | 219.26 | ✓ |
| 1+40 |                  | 218.99 |   |
| 1+10 |                  | 218.67 | ✓ |
| 0+80 |                  | 218.36 | ✓ |
| 0+50 |                  | 218.04 | ✓ |
| 0+20 |                  | 217.73 |   |
| 0+00 | 50 line Orchard  | 217.45 | ✓ |
| 3+00 | 100 line Orchard | 217.28 |   |
| 2+80 |                  | 217.64 |   |
| 2+72 |                  | 217.79 |   |
| 2+44 |                  | 218.31 |   |
| 2+16 |                  | 218.83 | ✓ |
| 1+88 |                  | 219.35 | ✓ |
| 1+62 |                  | 219.83 | ✓ |
| 1+38 |                  | 220.21 | ✓ |
| 1+12 |                  | 220.65 | ✓ |
| 0+84 |                  | 221.13 | ✓ |
| 0+56 |                  | 221.61 | ✓ |
| 0+28 |                  | 222.09 | ✓ |
| 0+00 | 50 line Del Mar  | 222.57 | ✓ |

B 17

216.36

18 DISC Orchard E. Venice  
N.E.

E Grades Santa Barbara  
Orchard to Pescadero

40

|                       |        |        |
|-----------------------|--------|--------|
| 1+60 Ex Pav           | 236.62 | Ex Pav |
| 1+38 BC               | 238.27 | /      |
| 1+05                  | 241.04 |        |
| 0+70                  | 242.87 |        |
| 0+35                  | 246.70 |        |
| 0+20                  |        |        |
| 0+00 So. Line Orchard | 249.54 |        |

B17 0.65 250.73

250.08

SEBP Orchard & Santa Barbara

Stake SEC6 Ret  
Orchard & Santa Barbara

41

21 23.53

21 24.13

21 24.66

21 25.11

21 25.65

EC 25.70

24995 meet

#2 1/2 70

4.61 250.07 250.13 FO<sup>06</sup>

#2 1/2 71

4.43 250.25 250.15 CO<sup>09</sup>

#1 22 71

4.37 250.31 250.12 CO<sup>09</sup>

BC on Orchard

250.01 meet

01 15.71

BM 460 25468

250.08

2ERP 01

1

Stake & Santa Barbara  
Pescadero to Bermuda

|         |                    |                  | Finish<br>Grade | Finish | Subgrade                             | Subgrade                             | (Recon)  |        |                  |
|---------|--------------------|------------------|-----------------|--------|--------------------------------------|--------------------------------------|----------|--------|------------------|
| 3+80    | So line            | 13.14            | 201.89          | 201.80 | FO <sup>21</sup>                     | CO <sup>11</sup>                     | 201.47   |        |                  |
| 2+66    |                    | 12.75            | 201.98          | 202.30 | FO <sup>32</sup>                     | CO <sup>01</sup>                     | 201.97   |        |                  |
| 3+53    |                    | 12.48            | 202.25          | 202.54 | FO <sup>29</sup>                     | CO <sup>04</sup>                     | 202.21   |        |                  |
| 3+40 K  |                    | 12.25            | 202.48          | 202.80 | FO <sup>33</sup>                     | CO <sup>01</sup>                     | 202.47   |        |                  |
| 3+27    |                    | 12.04            | 202.69          | 202.95 | FO <sup>26</sup>                     | CO <sup>07</sup>                     | 202.62   |        |                  |
| 3+14    | No. Chdine Bermuda | 11 <sup>98</sup> | 202.85          | 203.18 | FO <sup>32</sup>                     | CO <sup>00</sup>                     | 202.85   | 202.83 |                  |
| 2+94    |                    | 11.07            | 203.66          | 203.97 | FO <sup>31</sup>                     | CO <sup>02</sup>                     | 203.64   | 203.63 |                  |
| 2+75    |                    | 10.04            | 204.69          | 205.11 | FO <sup>22</sup>                     | FO <sup>09</sup>                     | 204.78   | 204.64 |                  |
| 2+50    | B.K                | 8.23             | 206.50          | 206.59 | FO <sup>09</sup>                     | CO <sup>24</sup>                     | 206.26   | 206.47 |                  |
| 2+25    |                    | 6.50             | 208.23          | 208.32 | FO <sup>08</sup>                     | CO <sup>24</sup>                     | 207.99   | 208.21 |                  |
| 2+00    | B.K                | 4.80             | 209.93          | 210.04 | FO <sup>11</sup><br>FO <sup>27</sup> | CO <sup>22</sup><br>CO <sup>20</sup> | 209.71   | 209.91 | CO <sup>20</sup> |
| 1+62    |                    | 2.19             | 212.54          | 212.76 | FO <sup>23</sup>                     | CO <sup>11</sup>                     | 212.43   | 212.53 |                  |
| 1+38    | TP 059             | 214.23           | 12.13           | 214.14 |                                      |                                      |          |        |                  |
|         |                    | 13.11            | 214.16          | 214.62 | FO <sup>46</sup>                     | FO <sup>13</sup>                     | 214.29   | 214.16 |                  |
| 1+20    | B.K                | 10.49            | 216.78          | 216.90 | FO <sup>13</sup>                     | CO <sup>21</sup>                     | 216.57   | 216.78 |                  |
| 0+66.67 |                    | 8.15             | 219.12          | 219.20 | FO <sup>08</sup>                     | CO <sup>25</sup>                     | 218.87   | 219.12 |                  |
| 0+33.33 |                    | 5.77             | 221.50          | 221.51 | FO <sup>01</sup>                     | CO <sup>32</sup>                     | 221.18   | 221.51 |                  |
| 0+00    |                    | 3.69             | 223.58          | 223.82 | FO <sup>24</sup>                     | CO <sup>09</sup>                     | (223.49) | 223.61 |                  |
| BM      | 0.72               | 227.27           |                 | 226.55 |                                      |                                      |          |        |                  |

9.29.50 Stake C65  
 Hendrick Sapphire St.  
 Johnson  
 Shepard Bayard to Cass  
 Bunch  
 NW 1/4 31623  
 Dwg. 7891-L

|      |       |        |        |                    |
|------|-------|--------|--------|--------------------|
| #1   | 11.57 | 112.89 | 113.10 | FO <sup>21</sup> ✓ |
| 3+65 | 11.31 | 113.25 | 113.40 | FO <sup>15</sup> ✓ |
| 3+34 | 11.07 | 113.39 | 113.50 | FO <sup>11</sup> ✓ |
| 3+0X | 10.48 | 113.98 | 114.00 | FO <sup>02</sup> ✓ |
| 2+74 | 9.95  | 114.51 | 114.47 | CO <sup>04</sup> ✓ |
|      | 9.68  | 114.78 | 114.95 | FO <sup>13</sup> ✓ |
| 2+44 | 9.11  | 115.35 | 115.42 | FO <sup>07</sup> ✓ |
| 2+30 | 8.74  | 115.72 | 115.64 | CO <sup>08</sup> ✓ |
| 2+10 | 8.35  | 116.11 | 116.00 | CO <sup>11</sup> ✓ |
| 1+90 | 7.84  | 116.62 | 116.46 | CO <sup>16</sup> ✓ |
| 1+70 | 7.56  | 116.90 | 117.00 | FO <sup>10</sup> ✓ |
| 1+50 | 7.09  | 117.37 | 117.63 | FO <sup>26</sup> ✓ |
| 1+33 | 6.52  | 117.94 | 118.21 | FO <sup>27</sup> ✓ |
| 1+02 | 5.41  | 119.05 | 119.26 | FO <sup>21</sup> ✓ |
| 0+71 | 3.92  | 120.84 | 120.31 | CO <sup>23</sup> ✓ |
| 0+40 | 2.91  | 121.55 | 121.36 | CO <sup>19</sup> ✓ |
| 0+26 | 2.61  | 121.85 | 121.83 | CO <sup>02</sup> ✓ |
| 0+06 | 2.39  | 122.07 | 122.16 | FO <sup>09</sup> ✓ |
| 0+00 | 2.21  | 122.25 | 122.33 | Ev CA ✓            |

INDIVIDUAL  
 APR 11 1951

|       |        |        |                    |
|-------|--------|--------|--------------------|
| 10.29 | 114.17 | 114.02 | CO <sup>15</sup> ✓ |
| 10.15 | 114.31 | 113.92 | CO <sup>39</sup> ✓ |
| 10.17 | 114.29 | 114.00 | CO <sup>29</sup> ✓ |
| 9.78  | 114.68 | 114.50 | CO <sup>18</sup> ✓ |
| 9.37  | 115.09 | 114.97 | CO <sup>12</sup> ✓ |
| 8.89  | 115.57 | 115.45 | CO <sup>12</sup> ✓ |
| 8.52  | 115.94 | 115.92 | CO <sup>02</sup> ✓ |
| 8.26  | 116.20 | 116.14 | CO <sup>06</sup> ✓ |
| 7.85  | 116.61 | 116.51 | CO <sup>10</sup> ✓ |
| 7.38  | 117.08 | 116.99 | CO <sup>09</sup> ✓ |
| 7.03  | 117.43 | 117.56 | FO <sup>13</sup> ✓ |
| 6.18  | 118.28 | 118.24 | CO <sup>04</sup> ✓ |
| 5.58  | 118.98 | 118.85 | CO <sup>03</sup> ✓ |
| 4.25  | 120.21 | 119.99 | CO <sup>22</sup> ✓ |
| 3.18  | 121.28 | 121.13 | CO <sup>15</sup> ✓ |
| 2.15  | 122.31 | 122.27 | CO <sup>04</sup> ✓ |
| 1.89  | 122.57 | 122.78 | FO <sup>21</sup> ✓ |
| 1.13  | 123.33 | 123.50 | FO <sup>17</sup> ✓ |
| 0.72  | 123.74 | 123.70 | Ev CA ✓            |

B17 0.30 124.46  
 11

124.16

NW 7' L&T Sapphire B. Cass



E Santo Barbara  
Del Mar to Orchard.

44

|                       |          |
|-----------------------|----------|
| 1480                  | 253.25   |
| 1462                  | 253.48 ✓ |
| 1438                  | 253.29 ✓ |
| 1420                  | 252.98 ✓ |
| 0490                  | 252.17 ✓ |
| 0460                  | 251.37 ✓ |
| 0430                  | 250.56   |
| 0400 So. Line Del Mar | 249.76   |

B77

250.36

SWBP Del Mar & Santa Barbara

R Santa Barbara

Coronado to Del Mar

45

|                        |               |
|------------------------|---------------|
| 3+00 N. line Del Mar   | 247.50 E+Por. |
| 2+80                   | 246.93 ✓      |
| <del>2+72</del>        | 246.69        |
| 2+44                   | 245.81 ✓      |
| 2+16                   | 245.07 ✓      |
| 1+88                   | 244.26 ✓      |
| 1+62                   | 243.51 ✓      |
| 1+38                   | 242.80 ✓      |
| 1+17                   | 242.15 ✓      |
| 0+97                   | 241.53 ✓      |
| 0+77                   | 240.91 ✓      |
| 0+57                   | 240.29 ✓      |
| 0+20                   | 239.74        |
| 0+00 So. line Coronado | 239.30 BPor   |

B17

240.10

10.6.50 Levels for Topograph.

Hendricks

Bunch

Shepard

Wyabaska Freeway

Transferred to FB 2085

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46

|      |       |       |       |       |                                  |
|------|-------|-------|-------|-------|----------------------------------|
| B.M. |       | 118   | 33.65 | 33.68 | B.P. W. Co. Castellor & Etimanda |
| TP.  | 3.11  | 34.83 | 10.19 | 31.72 |                                  |
| TP.  | 0.30  | 41.91 | 9.62  | 41.61 | (on Stub Fence Corner)           |
| TP.  | 10.38 | 51.23 | 0.57  | 40.85 |                                  |
| TP.  | 12.37 | 41.42 | 0.26  | 29.05 |                                  |
| TP.  | 12.73 | 29.31 | 12.40 | 16.58 | on Hub 24+29.22                  |
| TP.  | 1.35  | 28.98 | 12.58 | 27.63 |                                  |
| TP.  | 0.38  | 40.21 | 10.71 | 39.83 | on Hub 30+99.29                  |
| TP.  | 2.17  | 50.54 | 13.16 | 48.37 |                                  |
| TP.  | 0.78  | 61.53 | 5.20  | 60.75 | on Hub 28+29.83                  |
| TP.  | 10.71 | 65.95 | 1.70  | 55.24 |                                  |
| TP.  | 12.78 | 56.94 | 0.81  | 44.16 |                                  |
| TP.  | 12.74 | 44.97 | 7.06  | 32.23 | on Hub 25+42.44                  |
| TP.  | 2.27  | 39.29 | 9.66  | 37.02 | on Hub 23+85.19                  |
| TP.  | 0.15  | 46.68 | 12.97 | 46.53 |                                  |
| TP.  | 0.43  | 59.50 | 12.57 | 59.07 | on Stub 21+14.31                 |
| B.M. | 1.03  | 71.64 |       | 70.61 | SW 7' L&T Wells & Voltaire       |

State of Santo Barbara

Santa Cruz to Coronado

47

|      |                    |          |
|------|--------------------|----------|
| 3+00 | da Line Coronado   | 239.70 ✓ |
| 2+80 |                    | 240.64 ✓ |
| 2+72 |                    | 240.96   |
| 2+44 |                    | 242.10 ✓ |
| 2+16 |                    | 243.24 ✓ |
| 1+88 |                    | 244.38 ✓ |
| 1+62 |                    | 245.44 ✓ |
| 1+38 |                    | 246.82 ✓ |
| 1+12 |                    | 248.20 ✓ |
| 0+84 |                    | 249.80 ✓ |
| 0+56 |                    | 251.35 ✓ |
| 0+28 |                    | 252.90 ✓ |
| 0+20 |                    | 253.32 ✓ |
| 0+00 | sa Line Santa Cruz | 254.18   |

B17.

240.10

240.10 Coronado & Santa Barbara

A Santa Barbara  
Del Monte to Santa Cruz

48

237.49 NEBP Del Monte to Santa Barbara

3+00 H. Lino Santa Cruz 255.14 ✓

2+80 254.24 /

2+44 252.20 /

2+16 250.80 -

1+88 249.30 ✓

1+62 247.91 /

1+38 246.62 /

1+12 245.22 /

0+84 243.72 /

0+56 242.22 /

0+30 240.29 /

0+00 50 Lino Del Monte 239.00 ✓

BM 254.12 SEBP Santa Cruz to Santa Barbara

Stake to Santa Barbara  
 Narragansett to Del Monte

49

|      |                      |        |                                   |
|------|----------------------|--------|-----------------------------------|
| BM   |                      | 218.70 | SWBP Narragansett & Santa Barbara |
| 3+00 | No line Del Monte    | 237.09 |                                   |
| 2+80 |                      | 235.84 |                                   |
| 2+44 |                      | 233.71 |                                   |
| 2+16 |                      | 232.05 |                                   |
| 1+88 |                      | 230.39 | ✓                                 |
| 1+62 |                      | 228.85 | ✓                                 |
| 1+38 |                      | 227.43 | ✓                                 |
| 1+10 |                      | 225.77 | ✓                                 |
| 0+80 |                      | 223.99 | ✓                                 |
| 0+50 |                      | 222.21 | ✓                                 |
| 0+20 |                      | 220.43 | ✓                                 |
| 0+00 | So line Narragansett | 219.16 |                                   |
| BM   | 3.96 241.45          | 237.19 | NEBP Del Monte & Santa Barbara    |

E Santa Barbara

Cape May to Saratoga  
D-19 7663-L

50

B17 020 176.46

176.26

HWPB Saratoga  
& Santa Barbara

3+00 No. Line Saratoga

178.93

2+80

174.73

2+40

172.24

2+00

169.80

1+60

167.34

1+40

166.10

1+00

163.63

0+60

161.17

0+20

158.71

0+00 So. Line Cape May

157.52

B17.

157.27

SEBP Cape May  
& Santa Barbara

to Santa Barbara  
Saratoga to Santa Monica  
Dist. 7664 - 2

51

|                           |  |        |                                   |
|---------------------------|--|--------|-----------------------------------|
| B17                       |  | 194.21 | NWBP Santa Monica & Santa Barbara |
| 3110 Ex Pay               |  | 194.70 |                                   |
| 3100 No line Santa Monica |  | 194.62 |                                   |
| 2480                      |  | 194.22 |                                   |
| 2440                      |  | 193.54 | ✓                                 |
| 2400                      |  | 192.86 | ✓                                 |
| 1480                      |  | 192.30 | ✓                                 |
| 1460 }<br>1448 } 4110y    |  | 191.42 | ✓                                 |
|                           |  | 190.21 | ✓                                 |
| 1420                      |  | 188.94 |                                   |
| 1400                      |  | 187.10 |                                   |
| 0460                      |  | 183.26 |                                   |
| 0420                      |  | 179.42 |                                   |
| 0400 So. line Saratoga    |  | 177.23 |                                   |
| B17                       |  | 176.20 | NWBP Saratoga & Santa Barbara     |



to Santa Barbara  
Santa Monica to Newport

52

B7. 896 198.98 190.02 NWBP Newport to Santa Barbara

3+00 No. line Newport 190.58

2+80 190.99

2+40 191.50

2+00 192.00

1+60 } alley 192.51 ✓

1+40 192.76 ✓

1+00 193.27

0+60 193.77 ✓

0+20 194.28 ✓

0+00 So line Santa Monica 194.44 ✓

0-10 Exp pay 194.55 ✓

B7. 194.21 NWBP Santa Monica

↳ Santa Barbara  
Newport to Niagara

53

198.84

(Strike Disc RE4849)

3+00

196.75

2+80

196.43

2+40

195.51

2+20

195.05

1+90

194.36

1+62

193.71

1+38

193.22

1+07.67

192.60

0+77.33

191.98

0+47

191.36

0+25

190.81

0+00

190.23

190.02

NXBP Newport to Santa Barbara

\$ Santa Barbara  
Niagara to Narragansett

54

218.70 SW BP Narragansett to Santa Barbara

3+00 N. Line Narragansett - 21715

2+80 216.04

2+44 213.71 ✓

2+16 211.91 ✓

1+88 210.11 ✓

1+62 208.44 ✓

1+38 206.82 ✓

1+12 205.34 ✓

0+84 203.73 ✓

0+56 202.12 ✓

0+28 200.51

0+00 So. Line Niagara 198.90

198.54 SW L & Disc K 5484 ✓

\$ Niagara  
 Santa Barbara to Venice

55

|                            |        |   |
|----------------------------|--------|---|
| 6+00 W Line Venice         | 218.41 | ✓ |
| 5+70                       | 219.00 | ✓ |
| 5+35                       | 219.70 | ✓ |
| 5+00                       | 220.40 | ✓ |
| 4+65                       | 221.04 | ✓ |
| 4+50                       | 220.96 | ✓ |
| 4+20                       | 220.14 | ✓ |
| 4+00                       | 218.94 | ✓ |
| 3+60                       | 216.15 | ✓ |
| 3+20                       | 213.35 | ✓ |
| 2+80                       | 210.55 | ✓ |
| 2+40                       | 207.75 | ✓ |
| 2+00                       | 204.95 | ✓ |
| 1+75                       | 203.49 | ✓ |
| 1+50                       | 202.45 | ✓ |
| 1+25                       | 201.61 | ✓ |
| 1+00                       | 200.89 | ✓ |
| 0+75                       | 200.25 | ✓ |
| 0+50                       | 199.60 | ✓ |
| 0+25                       | 198.75 | ✓ |
| 0+00 E. Line Santa Barbara | 197.90 |   |

B.M

198.24

16-18-50 Stake Cbs Hancock St

Hendricks Estudillo to Noell

Bunch  
Shepard  
W0#

B.M. 10.36 3.32 3.36

T.P. 1.59 13.68 13.17 12.09

T.P. 0.94 25.26 5.18 24.32

3+00 N Line Noell 4.00 25.50 25.50

2+70

2+40

2+10

1+80

1+50

1+21

0+90

0+60

0+30

0+00 50 line

24.50

EX CB

B.M. 5.00 27.50

24.50

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NE Q 17 66 Noell & Pacific Hwy.

56

27.50

10-18-50 State Obs  
Hendrick So side Estudillo  
Johnson Wly from Hancock  
Bunch  
Shepard Ref: DWIG 6545-K  
W O # 62001

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|         |                |       |       |       |                  |
|---------|----------------|-------|-------|-------|------------------|
| 1+54.02 | End. Cb        | 11.13 | 15.56 | 16.06 | FO <sup>52</sup> |
| 1+34.45 |                | 10.59 | 16.04 | 16.54 | FO <sup>50</sup> |
| 1+14.87 |                | 10.14 | 16.49 | 17.01 | FO <sup>52</sup> |
| 0+95.29 |                | 9.67  | 16.96 | 17.49 | FO <sup>53</sup> |
| 0+75.52 | End Ex. Cb     | 8.75  | 17.88 | 17.96 | P. Cb            |
| 0+00    | W line Hancock |       |       |       |                  |

BM. 2.13 26.63

24.50

South West  
E.C. Cb. Ret. Hancock & Estudillo  
on Hancock

10-2450 Stake 12" v.c. Sewer  
 Hendricks  
 Begg Midway Dr.  
 Crawford West Pt. Loma Blvd. to Ollie St.  
 Shepard  
 W. 20697 Div. 8261-L

(Cuts) INDEYRN  
 APR 11 1954

|                                            |        |       |       |   |
|--------------------------------------------|--------|-------|-------|---|
| 3+50                                       | 3.10   | -6.46 | 9.56  | ✓ |
| 3+25                                       | 3.31   | -6.53 | 9.84  | ✓ |
| T.P.                                       | (3.53) |       |       |   |
| 3+00                                       | 3.75   | -6.61 | 10.36 | ✓ |
| 2+75                                       | 4.16   | -6.68 | 10.84 | ✓ |
| 2+50                                       | 4.58   | -6.76 | 9.74  | ✓ |
| 2+25                                       | 4.11   | -6.83 | 7.94  | ✓ |
| 2+07.15 M.H. #1                            | 4.80   | -6.88 | 8.68  | ✓ |
| 1+75                                       | 4.16   | -6.98 | 11.14 | ✓ |
| 1+50                                       | 4.61   | -7.05 | 11.66 | ✓ |
| 1+25                                       | 4.97   | -7.13 | 12.10 | ✓ |
| 1+00                                       | 5.34   | -7.20 | 12.54 | ✓ |
| 0+75                                       | 5.88   | -7.28 | 13.16 | ✓ |
| 0+50                                       | 6.42   | -7.35 | 13.77 | ✓ |
| 0+25                                       | 6.78   | -7.43 | 14.21 | ✓ |
| 0+00 Ex M.H. # Midway Dr. & West Pt. Loma. | 6.76   | -7.50 | 14.26 | ✓ |

Br 3.00

BP in N.W. v. Pt. Loma Blvd & Midway Dr.

Cont'd. from p. 58

59

Cuts

|                         |      |          |             |
|-------------------------|------|----------|-------------|
| 7+10.17                 | 1.69 | -5.28    | 6.57 ✓      |
|                         | 1.74 | -4.95 to | East 6.59 ✓ |
| 7+17.17 MH #4           | 1.74 | -5.35    | 7.09 ✓      |
| 7+00                    | 1.46 | -5.40    | 6.86 ✓      |
| 6+69.09 Forward line    | 2.23 | -5.49    | 7.72        |
| 6+69.09 MH #3 Back T.P. | 2.17 | -5.49    | 7.66        |
| 6+50                    | 1.96 | -5.55    | 7.51        |
| 6+25                    | 1.92 | -5.63    | 7.55        |
| 6+00                    | 2.24 | -5.70    | 7.94        |
| 5+75                    | 2.31 | -5.78    | 8.09        |
| 5+50                    | 2.65 | -5.85    | 8.50        |
| 5+25                    | 2.75 | -5.93    | 8.68        |
| 5+00                    | 2.83 | -6.01    | 8.84        |
| 4+75                    | 2.78 | -6.08    | 8.83 ✓      |
| 4+50                    | 2.54 | -6.15    | 8.69 ✓      |
| 4+25                    | 2.82 | -6.23    | 9.05 ✓      |
| 4+00                    | 2.91 | -6.30    | 9.21 ✓      |
| 3+89.70 MH #2           | 2.94 | -6.33    | 9.27 ✓      |
| 3+75                    | 2.96 | -6.38    | 9.34 ✓      |



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(Cuts)

|                            |                          |      |        |                               |
|----------------------------|--------------------------|------|--------|-------------------------------|
| 0+58                       | } Oldest<br>Stub.        | 1.05 | - 2.54 | 3.59 ✓                        |
| 0+40                       |                          | 1.42 | - 2.65 | 4.07 ✓                        |
| 0+00                       |                          | 1.53 | - 4.00 | 5.53 ✓                        |
| 0+56                       | } Nashville St.<br>Stub. | 0.85 | - 4.57 | 5.42                          |
| 0+28                       |                          | 2.02 | - 4.71 | 6.73 ✓                        |
| 0+00                       |                          |      | - 4.85 |                               |
| ck) 9+46.25 Meet Ex. Sewer |                          | 1.54 | - 4.66 | 6.20 (Check<br>Marked c 6.21) |
| 9+21.21 MH # 5             |                          | 1.53 | - 4.74 | 6.27 ✓                        |
| 8+89                       |                          | 1.54 | - 4.84 | 6.38 ✓                        |
| 8+64                       |                          | 1.60 | - 4.91 | 6.51 ✓                        |
| 8+39                       |                          | 1.58 | - 4.99 | 6.56 ✓                        |
| 8+14                       |                          | 1.53 | - 5.06 | 6.59 ✓                        |
| 7+89                       |                          | 1.58 | - 5.14 | 6.72 ✓                        |
| 7+64                       |                          | 1.63 | - 5.21 | 6.84 ✓                        |

10-25-50  
Hendricks  
Bess  
Shepard  
Crawford  
NO# 20697

Stake Concrete Ditch  
Midway Drive  
Ding, 8214-L

13+48.32 4.64 -0.95 -6.09 5.14

13+24.87 4.65 -0.96 -6.07 5.11

13+01.41 4.64 -0.95 -6.06 5.11

12+77.95 4.22 -0.53 -6.04 5.51

T.P. 418 369  
12+54.51 8.77 -0.49 -6.03 5.54 ✓

12+25 8.35 -0.07 -6.01 5.94 ✓

12+00 8.77 -0.49 -6.00 5.51 ✓

11+75 8.59 -0.31 -5.98 5.67 ✓

11+50 8.82 -0.54 -5.97 5.43 ✓

11+25 9.13 -0.85 -5.95 5.10 ✓

11 8.22 0.06 -5.94 6.00 ✓

10+80.33 EC 7.22 1.06 -5.92 6.98 ✓

10+64.73 7.21 1.07 -5.91 6.98 ✓

10+49.12 7.10 1.18 -5.90 7.08 ✓

10+33.52 7.19 1.09 -5.88 6.98 ✓

10+17.91 P.O.C. End of pipe 7.25 1.03 -5.88 6.91 ✓

T.P. 6.83 8.28 1.45

B.M. 1.53

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Cuts

61

(on Nat. C. Rt. Sta. 9+21.21 P. Co. #15 BK)

Cont'd, from P 61

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|                   |           |        |       |            |      |
|-------------------|-----------|--------|-------|------------|------|
| CK Stub oroa MH#1 | 6.70      | (1.24) | -3.92 | Stake 17Kd | 5.46 |
| TP. 9.30          | 8.24      | 4.75   | -1.06 | Elev. Ft.  |      |
|                   | 4.47      |        |       |            |      |
| 16+81.30 EC       | End Ditch | -0.76  | -6.30 |            | 5.52 |
| 16+55.86          | 5.01      | -1.32  | -6.28 |            | 4.96 |
| 16+32.43 BC       | 5.31      | -1.62  | -6.37 |            | 4.65 |
| 16+00             | 5.06      | -1.37  | -6.25 |            | 4.88 |
| 15+75             | 5.26      | -1.57  | -6.22 |            | 4.66 |
| 15+50             | 5.40      | -1.71  | -6.22 |            | 4.51 |
| 15+25             | 5.42      | -1.73  | -6.20 |            | 4.47 |
| 15+00             | 5.30      | -1.61  | -6.19 |            | 4.58 |
| 14+89.08 EC       | 4.82      | -1.13  | -6.08 |            | 5.05 |
| 14+65.62          | 4.86      | -1.17  | -6.16 |            | 4.99 |
| 14+42.16          | 4.82      | -1.13  | -6.15 |            | 5.02 |
| 14+18.70          | 5.24      | -1.55  | -6.13 |            | 4.58 |
| 13+95.24          | 4.34      | -0.65  | -6.12 |            | 5.47 |
| 13+71.78          | 4.23      | -0.54  | -6.10 |            | 5.56 |

3.69  
 11

10-26-50  
Hendricks  
Bess  
Shepard  
Crawford  
W O # 20678

State Branch  
Line to Rt of  
MH #1 DWG. 1610 D  
(FB 2083 P. 41)

|          |      |             |                  |
|----------|------|-------------|------------------|
| 2+50 D.E | 5.85 | 0.97 - 2.50 | C3 <sup>47</sup> |
| 2+25     | 6.11 | 0.71 - 2.60 | C3 <sup>31</sup> |
| 2+00     | 5.79 | 1.03 - 2.70 | C3 <sup>72</sup> |
| 1+75     | 5.68 | 1.14 - 2.80 | C3 <sup>94</sup> |
| 1+50     | 5.76 | 1.06 - 2.90 | C3 <sup>96</sup> |
| 1+25     | 5.76 | 1.06 - 3.00 | C4 <sup>06</sup> |
| 1+00     | 5.82 | 1.30 - 3.10 | C4 <sup>40</sup> |
| 0+75     | 5.11 | 1.71 - 3.20 | C4 <sup>91</sup> |
| 0+50     | 3.57 | 3.25 - 3.30 | C6 <sup>55</sup> |
| 0+25     | 5.38 | 1.44 - 3.40 | C4 <sup>84</sup> |
| 0+00     | 5.29 | 1.53 - 3.50 | C5 <sup>03</sup> |

B.M. 5.28  $\frac{6.82}{x}$  1.54 on Stub 6' RL MH #1 (P. 62)

10-26-50 Stake Sewer North  
 Hendricks Approach Midway Dr.  
 899 Bridge  
 Crawford  
 Shepard  
 NO # 20678

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10.78  
 ↓

|                                   |      |       |                     |        |
|-----------------------------------|------|-------|---------------------|--------|
| 33+95.41                          | 6.67 | 4.11  | 0.99                | 3.12 ✓ |
| 33+75.41 BYC                      | 5.92 | 4.86  | 1.56                | 3.30 ✓ |
| 33+67.25 PIRC                     | 5.60 | 5.18  | 1.81                | 3.37 ✓ |
| 33+44.70                          | 4.77 | 6.01  | 2.81                | 3.50 ✓ |
| 33+22.16                          | 4.01 | 6.77  | 3.21                | 3.56 ✓ |
| 32+99.61                          | 3.03 | 7.75  | 3.91                | 3.84 ✓ |
| 32+77.07 BC                       | 2.13 | 8.65  | 4.61                | 4.04 ✓ |
| 32+45 TP 10.24 1997               | 1.05 | 9.73  | 5.60                | 4.13 ✓ |
| 32+10                             | 8.86 | 11.11 | 6.68                | 4.43 ✓ |
| 31+75                             | 7.50 | 12.47 | 7.77                | 4.70 ✓ |
| 31+40                             | 6.45 | 13.52 | 8.85                | 4.67 ✓ |
| 31+05                             | 5.36 | 14.61 | 9.94                | 4.67 ✓ |
| 30+70                             | 4.40 | 15.57 | 11.02               | 4.55 ✓ |
| 30+35                             | 3.73 | 16.24 | 12.11               | 4.13 ✓ |
| 30+100                            | 2.98 | 16.99 | 13.19               | 3.80 ✓ |
| 29+82.41 & Bearing No. End Bridge |      |       | 13.74               |        |
| B17                               | 8.09 | 11.88 | 20.95 (State Datum) |        |
|                                   |      |       | 11.88               |        |
|                                   |      |       | - 9.07              |        |

Cont'd. from p. 64

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|              |       |       |       |        |                                                                 |
|--------------|-------|-------|-------|--------|-----------------------------------------------------------------|
| B.M.         | 7.03  | 10.78 |       | 1.75   | Nail in SW Cor. Valve Box 35' Rt. Sta. 36+64<br>(F B 2083 P-50) |
|              |       |       |       |        | Cuts                                                            |
| 36+45.41     | 10.32 | 0.46  | +2.32 | 2.78   |                                                                 |
| 36+25.41     | 10.66 | 0.12  | +2.17 | 2.29   |                                                                 |
| 36+05.41 BYC | 9.57  | 1.217 | -1.96 | 3.17 ✓ |                                                                 |
| 35+82.93 EC  | 11.25 | -0.47 | -1.68 | 3.15 ✓ |                                                                 |
| 35+70        | 10.95 | -0.17 | -1.52 | 4.69 ✓ |                                                                 |
| 35+35        | 9.03  | 1.75  | -1.10 | 2.85 ✓ |                                                                 |
| 35+00        | 7.57  | 3.21  | -0.68 | 3.89 ✓ |                                                                 |
| 34+75.41     | 6.92  | 3.86  | -0.40 | 4.20 ✓ |                                                                 |
| 34+55.41 EYC | 6.43  | 4.35  | -0.16 | 4.51 ✓ |                                                                 |
| 34+35.41     | 7.53  | 3.25  | 0.13  | 3.12 ✓ |                                                                 |
| 34+15.41     | 7.42  | 3.76  | 0.51  | 2.85 ✓ |                                                                 |

10-27-50  
Hendricks

Stake A/Alternate  
Branch Line  
(FB 2083 P-41)

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|                              | <u>Elev.</u><br><u>Stubs</u> | <u>Elev.</u><br><u>Grade</u> | <u>Cuts.</u>                  |
|------------------------------|------------------------------|------------------------------|-------------------------------|
| 2+76.41 DE                   | 0.96                         | -2.81                        | 3.77                          |
| 2+50                         | 1.11                         | -2.92                        | 4.03                          |
| 2+25                         | 1.02                         | -3.02                        | 4.04                          |
| 2+00                         | 1.18                         | -3.12                        | 4.30<br><del>4.40</del>       |
| 1+75                         | 1.17                         | -3.22                        | 4.39                          |
| 1+50                         | 1.18                         | -3.32                        | 4.50                          |
| 1+25                         | 1.10                         | -3.42                        | 4.52                          |
| 1+00                         | 1.13                         | -3.52                        | 4.65                          |
| 0+75                         | 1.70                         | -3.62                        | 5.32                          |
| 0+50                         | 1.81                         | -3.72                        | 5.53                          |
| 0+37                         | 1.71                         | -3.77                        | 5.48                          |
| 0+37                         | 1.97                         | -3.77                        | 5.74                          |
| (0+24)                       |                              | (-0.89)                      | (TOP EX. 16" WATER MAIN PIPE) |
| 0+00 (EX. MH #1 DING 1610.0) |                              | -3.92                        |                               |
| BM                           |                              | 1.54                         | ON STUB (P. 63)               |

11-3-50 Stake Storm Drain

Hendricks  
Sherman Midway DriveShepard  
Crawford  
1404 20697  
Dwg. 8213 L-  
New Location of Pipe  
this Book R-

Cuts offset

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|                             |             |        |       |
|-----------------------------|-------------|--------|-------|
| 3+50                        | 3.91 - 5.41 | 9.32 ✓ | 8'4"  |
| 3+25                        | 3.92 5.39   | 9.31 ✓ | "     |
| 3+00                        | 3.85 5.37   | 9.22 ✓ | "     |
| 2+75                        | 3.81 5.36   | 9.17 ✓ | "     |
| 2+50                        | 3.90 5.34   | 9.24 ✓ | "     |
| 2+25                        | 3.86 5.32   | 9.18 ✓ | "     |
| 2+00                        | 3.93 5.30   | 9.23 ✓ | "     |
| 1+75                        | 3.61 5.29   | 8.90 ✓ | "     |
| 1+50                        | 3.80 5.27   | 9.07 ✓ | "     |
| 1+25                        | 3.92 5.25   | 9.17 ✓ | "     |
| 0+92.74 EC                  | 3.99 5.23   | 9.22 ✓ | 8'11" |
| 0+86.62 EC <sup>EQWA.</sup> | 3.91 5.23   | 9.14 ✓ | 14'8" |
| 0+64.96                     | 4.15 - 5.22 | 9.37 ✓ | "     |
| 0+43.31 P.R.C.              | 4.07 - 5.20 | 9.27 ✓ | "     |
| 0+21.65                     | 4.55 - 5.19 | 9.74 ✓ | "     |
| 0+00 Beg 60" Pipe           | 4.90 - 5.17 | 10.07  | "     |

3.00

TOP H.W. Midway Dr. @ W.P.T. Loma Blvd.



Storm Drain Cont'd

68

Flow  
Line

|                        |      |       |        |        |
|------------------------|------|-------|--------|--------|
| 7+50                   | 1.87 | -5.69 | 7.56 ✓ | 8' Lt. |
| 7+25                   | 1.67 | 5.69  | 7.35 ✓ | "      |
| 7+00                   | 1.28 | 5.66  | 6.94 ✓ | "      |
| 6+89.22 R. Cleanout #2 | 1.44 | -5.65 | 7.09 ✓ | 5' Rt. |
|                        | 1.17 | -5.65 | 6.82 ✓ | 5' Lt. |
| 6+75                   | 0.80 | 5.64  | 6.44 ✓ | 8' Lt. |
| TP.<br>6+50            | 2.85 | 5.62  | 8.47 ✓ | "      |
| 6+25                   | 2.79 | 5.60  | 8.39 ✓ | "      |
| 6+00                   | 2.73 | 5.58  | 8.31 ✓ | "      |
| 5+75                   | 3.03 | 5.57  | 8.60 ✓ | "      |
| 5+50                   | 3.64 | 5.55  | 9.19 ✓ | "      |
| 5+25                   | 3.55 | 5.53  | 9.08 ✓ | "      |
| 5+00                   | 3.36 | 5.51  | 8.87 ✓ | "      |
| 4+75                   | 3.63 | 5.50  | 9.13 ✓ | "      |
| TP.<br>4+50            | 3.55 | 5.48  | 9.03 ✓ | "      |
| 4+25                   | 3.55 | 5.46  | 9.01 ✓ | "      |
| 4+00                   | 3.65 | 5.44  | 9.09 ✓ | "      |
| 3+75                   | 3.71 | -5.43 | 9.14 ✓ | 8' Lt. |

Chisel & in v. ch. Midway  
& Nashville produced

## Storm Drain Contd.

69

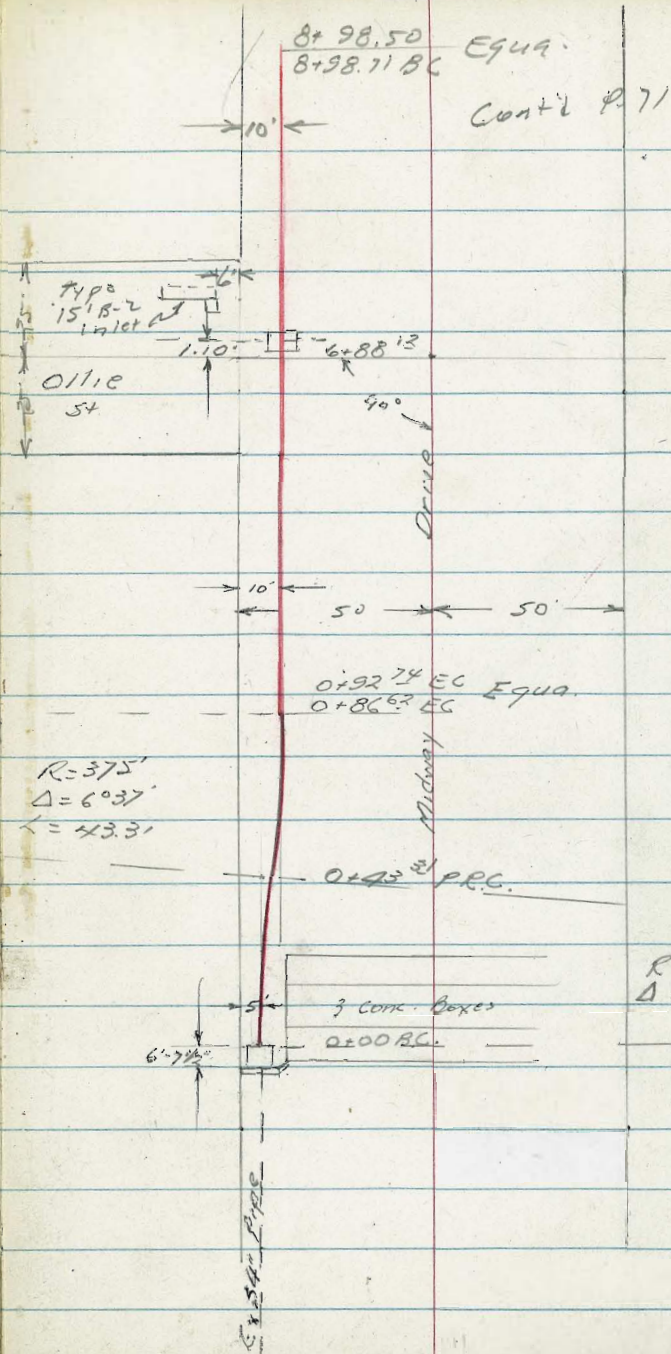
|                             |                         |        |        |                             |        |
|-----------------------------|-------------------------|--------|--------|-----------------------------|--------|
| 22' West.                   |                         | 1.17   |        |                             |        |
| 6' West of West Line Midway |                         | 0.93   |        |                             |        |
| CC Stub                     | CB. Inlet 011106 Midway | 1.03   | (1.03) | (Stub 15' RT 10+17.91 P-61) |        |
| 10+17.91 P.O.C. End Pipe    |                         | 1.28   | -5.88  | 7.16 ✓                      | 10' RT |
| 10+04.07                    |                         | -0.78  | 5.86   | 6.64 ✓                      | "      |
| 9+90.22                     |                         | -0.06  | -5.85  | 5.79 ✓                      | "      |
| 9+76.37                     |                         | 1.70   | 5.84   | 7.54 ✓                      | "      |
| 9+62.52 P.R.C.              |                         | 1.28   | 5.83   | 7.11 ✓                      | "      |
| 9+46.51                     |                         | 1.08   | 5.83   | 6.90 ✓                      | "      |
| 9+30.56                     |                         | 1.20   | 5.81   | 7.01 ✓                      | "      |
| 9+14.50                     |                         | 1.25   | 5.80   | 7.05 ✓                      | "      |
| 8+98.50                     |                         |        |        |                             |        |
| 8+98.71                     | P.C. Equation           | 1.19   | 5.79   | 6.98 ✓                      | 10' RT |
| 8+75                        |                         | 2.38   | 5.78   | 8.16 ✓                      | 8' RT  |
| 8+50                        |                         | 2.05   | 5.76   | 7.81 ✓                      | "      |
| 8+25                        |                         | 2.06   | 5.75   | 7.81 ✓                      | "      |
| TP.                         |                         | (2.05) |        |                             |        |
| 8+00                        |                         | 2.03   | 5.73   | 7.76 ✓                      | "      |
| 7+75                        |                         | 1.59   | 5.71   | 7.30 ✓                      | "      |

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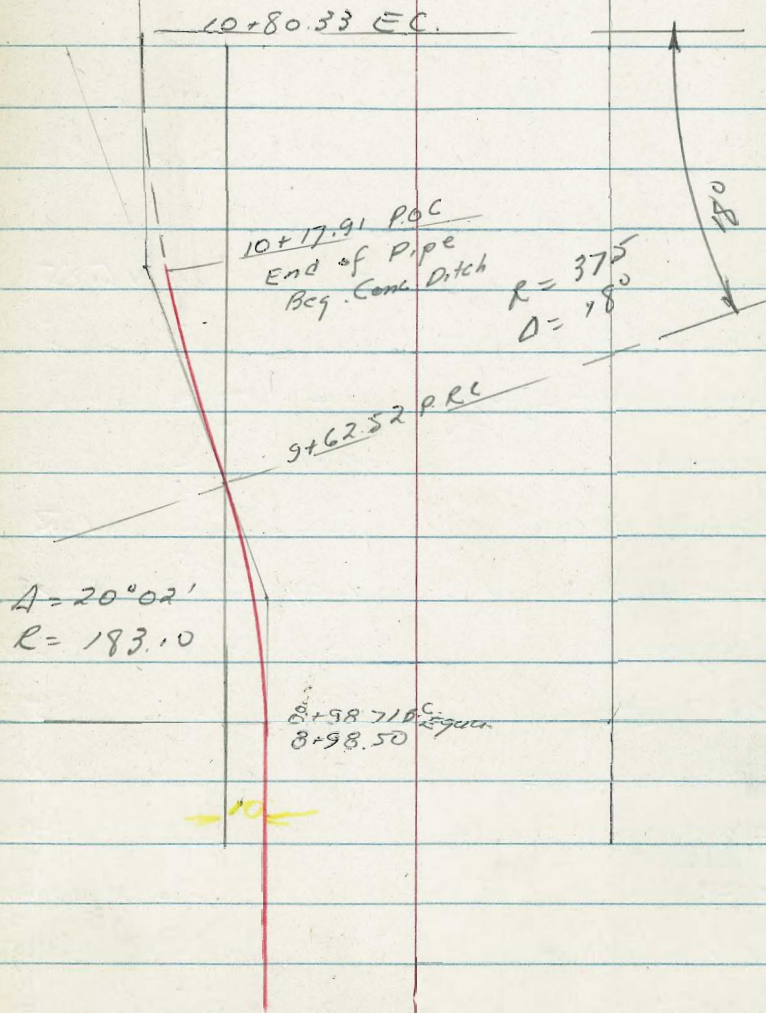
New Location Storm Drain  
Midway Drive.  
N. Pt. Loma Blvd to West  
See FB 2050 P-12  
& Dwg 8213-L

70



Drain Cont'd from p. 70

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Cont'd from p. 70

11-9-50 State Cbs Wly Side Dicters 5+  
 Hendricks Evergreen to HH.  
 Sherman  
 Shepard Dwig. 7609-L  
 Crawford  
 WOF 31437

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CE Ex Gb 200 on Rt 2.21 45.47 (45.50)

200 End. 2.17 45.51 46.25 FO<sup>74</sup> (45.50)

1+90 4.13 43.55 43.85 FO<sup>30</sup>

1+70 59.65 39.43 CO<sup>22</sup> ✓

~~1+65~~ 71.910 47.68 34 ~~39.52~~ ~~39.52~~ FI<sup>04</sup>

1+50 35.70 35.79 FO<sup>09</sup> ✓

~~1+40~~ 781 33.82 35.08 FI<sup>27</sup> ✓

1+30 32.53 32.92 FO<sup>32</sup>

~~1+15~~ 10.74 30.89 31.56 FO<sup>67</sup> ✓

1+10 30.35 30.81 FO<sup>76</sup>

0+90 13.10 41.63 1.07 28.53 28.98 FO<sup>45</sup> ✓

0+57.50 3.49 26.11 26.24 FO<sup>13</sup> ✓

0+25 EC Wly line Evergreen 6.14 23.46 23.50 FO<sup>04</sup> ✓

#4 7.08 22.52 22.41 CO<sup>11</sup> ✓

#3 8.00 21.60 21.36 CO<sup>24</sup> ✓

#2 7.08 22.52 20.60 CI<sup>92</sup>

#1 8.78 20.82 20.50 CO<sup>32</sup> ✓

BC on Evergreen 8.74 20.86 20.80 meet.

B17 11.10 29.60 18.50 SET DISC Emerson & Evergreen

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Stake Cbs East side  
Haines  
Garnet to Hornblend

73

Cb. Elev. Cuts off

|                |                  | Elev. Stake        | Elev. Cb. | Cuts               |       |       |                      |    |
|----------------|------------------|--------------------|-----------|--------------------|-------|-------|----------------------|----|
| 2+59.42        | so. line Garnet. | 68.13              | 68.00     | EX. CB.            | 67.77 | 67.71 | EX. CB.              | 4' |
| 2+39.42        | Bulk             | 67.75              | 67.65     | C 0.10             | 67.30 | 67.33 | FO <sup>03</sup>     |    |
| 2+29.30        |                  | 67.37              | 67.45     | F 0.08             | 66.95 | 67.13 | FO <sup>18</sup>     |    |
| 1+99.10        |                  | 66.70              | 66.89     | F 0.19             | 66.54 | 66.55 | FO <sup>01</sup>     |    |
| 1+68.90        |                  | 66.55              | 66.33     | C 0.22             | 65.83 | 65.96 | FO <sup>13</sup>     |    |
| 1+38.71        | BC Alley         | 65.77              | 65.77     | GRADE              | 65.17 | 65.38 | FO <sup>21</sup>     |    |
| EC Alley       |                  | 65.77              | 65.74     | C 0.03             | 65.17 | 65.34 | FO <sup>17</sup>     |    |
| North PL Alley | } 2' West        | 66.92              | 65.90     | C 1.02             | 66.03 | 65.48 | CO <sup>55</sup>     |    |
| South PL Alley |                  | 66.56              | 65.53     | C 1.03             | 66.14 | 65.09 | CO <sup>05</sup>     |    |
| EC Alley       |                  | 65.38              | 65.37     | C 0.01             | 65.02 | 64.95 | CO <sup>07</sup>     |    |
| 1+10.71        | BC Alley         | 63.38              | 65.26     | C 0.12             | 65.02 | 64.82 | CO <sup>20</sup>     |    |
| 0+83.08        |                  | 64.99              | 64.74     | C 0.25             | 64.66 | 64.29 | CO <sup>37</sup>     |    |
| 0+55.39        |                  | 64.39              | 64.23     | C 0.16             | 64.59 | 63.76 | CO <sup>83</sup>     |    |
| 0+27.70        |                  | 63.77              | 63.71     | C 0.01             | 64.19 | 63.23 | CO <sup>96</sup>     |    |
| 0+00           | EC Hornblend     |                    | 62.20     |                    | 62.77 | 62.70 | EX. CB.              |    |
| T.B.M.         | 2.82             | 62.91              |           | on Hub             |       |       |                      |    |
|                |                  | (Direct Elev. Rod) |           | SE, 30' Radius Hub |       |       | Haines & Hornblend   |    |
| BM 557         | 65.73            | 60.16              |           | ELBT               |       |       | Ingraham & Hornblend |    |

Stack Haines St.

Hornblend to Grand  
(56.77)

N+ 30' Cb Radius Hub  
Hornblend & Grand

Elev.  
Stack

Elev.  
Ch.

Cuts

| TBM                   |       |       |                    |       |       |                    |  |
|-----------------------|-------|-------|--------------------|-------|-------|--------------------|--|
| #3                    | 54.48 | 54.85 | FO <sup>37</sup> ✓ | 53.40 | 54.03 | FO <sup>63</sup> ✓ |  |
| #2                    | 53.99 | 54.87 | FO <sup>88</sup> ✓ | 54.07 | 54.32 | FO <sup>25</sup> ✓ |  |
| #1                    | 54.11 | 54.98 | FO <sup>87</sup> ✓ | 55.12 | 54.64 | CO <sup>48</sup> ✓ |  |
| 2+49.18 BC Alley      | 55.07 | 55.20 | FO <sup>13</sup> ✓ | 55.20 | 54.90 | CO <sup>30</sup> ✓ |  |
| 2+22.53               | 56.33 | 55.86 | CO <sup>47</sup> ✓ | 56.16 | 55.66 | CO <sup>50</sup> ✓ |  |
| 1+93.88               | 56.47 | 56.53 | FO <sup>06</sup> ✓ | 56.96 | 56.41 | CO <sup>55</sup> ✓ |  |
| 1+66.23               | 57.04 | 57.19 | FO <sup>15</sup> ✓ | 57.71 | 57.16 | CO <sup>55</sup> ✓ |  |
| 1+38.59 BC Alley      | 57.45 | 57.86 | FO <sup>41</sup> ✓ | 58.38 | 57.91 | CO <sup>47</sup> ✓ |  |
| EC Alley              | 57.45 | 58.00 | FO <sup>55</sup> ✓ | 58.38 | 58.06 | CO <sup>32</sup> ✓ |  |
| South PL Alley (Wall) | 60.08 | 58.16 | C1 <sup>92</sup>   | 59.62 | 58.22 | C1 <sup>40</sup> ✓ |  |
| North PL Alley        | 59.75 | 58.64 | C1 <sup>14</sup>   | 60.64 | 58.76 | C1 <sup>88</sup> ✓ |  |
| EC Alley Ret.         | 58.14 | 58.48 | FO <sup>34</sup> ✓ | 58.75 | 58.60 | CO <sup>15</sup> ✓ |  |
| 1+10.59 BC Alley      | 58.14 | 58.84 | FO <sup>41</sup>   | 58.75 | 58.67 | CO <sup>08</sup> ✓ |  |
| 0+82.95               | 59.15 | 59.20 | FO <sup>05</sup>   | 59.68 | 59.42 | CO <sup>26</sup> ✓ |  |
| 0+55.30               | 60.07 | 59.87 | CO <sup>20</sup>   | 60.47 | 60.18 | CO <sup>29</sup> ✓ |  |
| 0+27.65               | 60.97 | 60.53 | CO <sup>44</sup>   | 61.07 | 60.94 | CO <sup>13</sup> ✓ |  |
| 0+00 EC Hornblend     | 61.17 | 61.20 | Meet.              | 61.72 | 61.70 | Meet.              |  |

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T.B.M.

(62.91)

S.E. 30' Radius Hub Haines & Hornblend

11-14-50 State Rough Grades  
 Hendricks Plum St  
 Sherman Fenelon to Garrison  
 Shepard  
 Cranford  
 W0431628

75

INDEXED  
 APR 11 1951

|      |                   |        |        |       |                     |     |      |       |        |
|------|-------------------|--------|--------|-------|---------------------|-----|------|-------|--------|
| 2+00 | 5/4 line Garrison | 12.25  | 87.43  | 87.39 | Ex Cb               |     |      | 86.59 |        |
| 1+75 | BC Cb Rets        | 6.4    | 98.3   | 88.70 | C 9.6               | 6.0 | 98.7 | 88.20 | C 10.5 |
| 1+50 |                   | 4.7    | 100.00 | 90.82 | C 9.2               | 5.5 | 99.2 | 90.32 | 8.9    |
| 1+25 |                   | 3.1    | 101.6  | 92.95 | C 8.5               | 7.5 | 97.2 | 92.45 | 4.7    |
| 1+05 |                   | 2.0    | 102.7  | 94.50 | C 8.2               | 7.2 | 97.5 | 93.98 | 3.5    |
| 0+85 |                   | 1.4    | 103.3  | 95.75 | C 7.5               | 7.2 | 97.5 | 95.17 | 2.3    |
| 0+65 |                   | 0.0    | 104.7  | 96.70 | C 8.0               | 7.4 | 97.3 | 96.01 | C 1.2  |
| 0+45 |                   | 0.2    | 103.8  | 97.35 | C 6.4               | 7.7 | 97.0 | 96.52 | C 0.5  |
| 0+25 | EO Cbs Rets       | 1.1    | 103.6  | 97.85 | C 5.2               | 8.4 | 96.6 | 96.95 | FO 3.5 |
| 0+00 | 1/4 line fenelon  |        |        | 99.70 | Ex                  | 8.1 | 96.6 | 96.65 | C 0.0  |
| BM.  | 1204              | 104.68 |        | 92.64 | SEBP Fenelon & Plum |     |      |       |        |

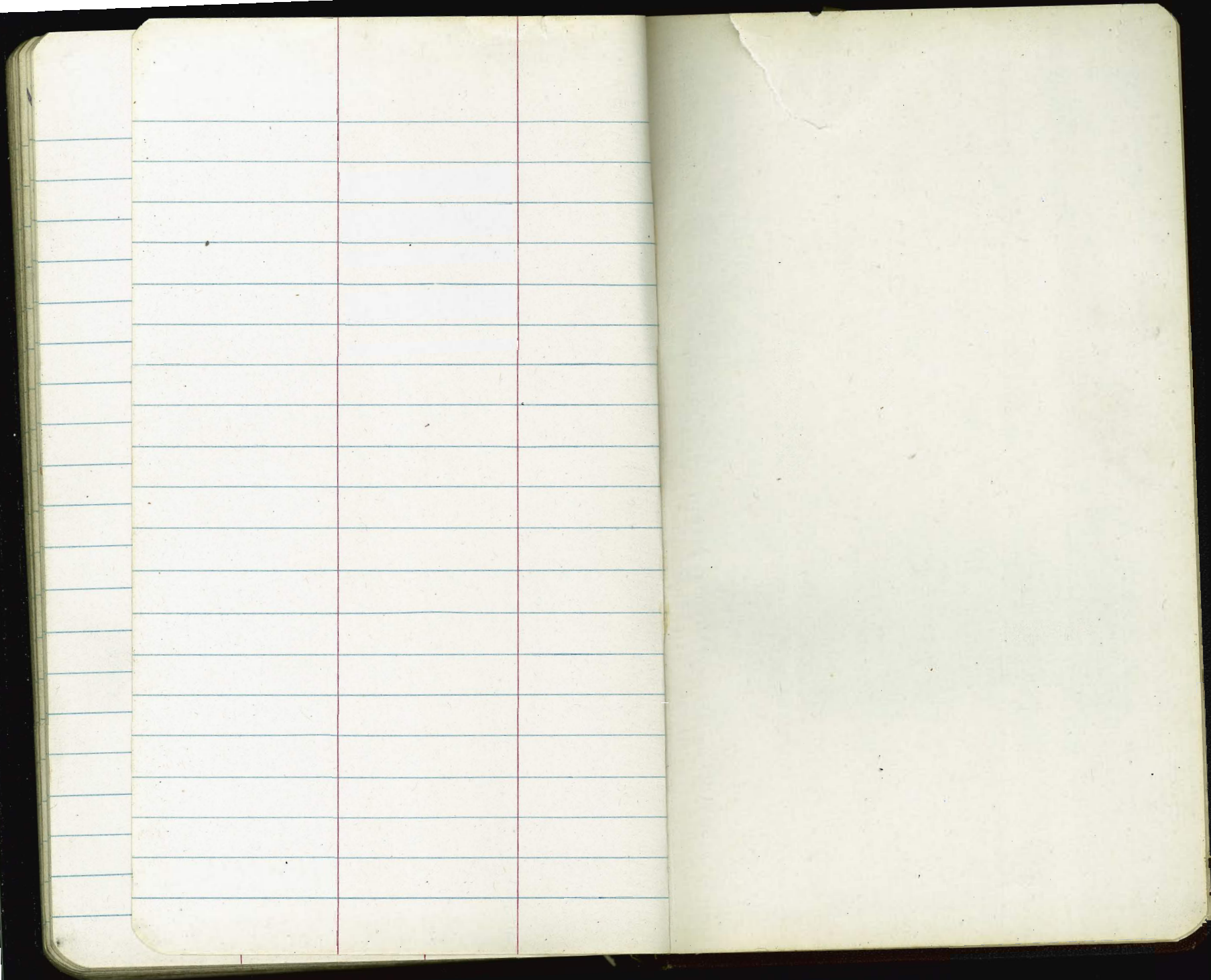








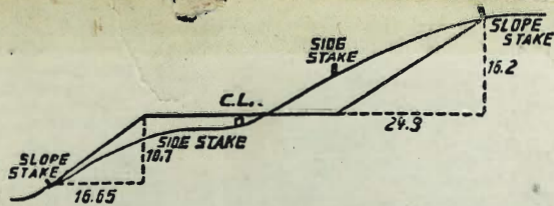




365  
 New location, Storm drain <sup>37</sup> 70  
 Midway Drive, w. Pt.  
 Loma Blvd. to West

Stake curbs Dickens, Evergreen 72  
 to N'ly

Stake rough grades Plum 75  
 St. - Fenelon to Garrison



**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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