

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and
SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

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

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

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

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G-243

INDEXED

to page # 78

except page # 2, 4, 6, 10, 12, 14,
16, 18, 20, 22, 24, 26,
28, 30, 46, 54, 55, 56,
76,

MICROFILMED

APR 13 1965

This Field Book is manufactured of a High Grade 50% Rag Paper having a WATER RESISTING SURFACE, and is sewed with Bing Special Enamel Waterproof thread.

Made in U. S. A.

INDEX

Kellogg Park	51
B-st Gutter Grades	52
B-st. Settlement Fill Near 28th	53
Amalfi Street near Torrey Pines Rd. , grades , culvert extension	78

Cont'd from G.B. 236-76
Trunk Sewer #2
W.O. 60208

INDEXED

W K
DEC 7 1948

150 53 10.5

135 8" T eastside 51 10.7
7.10
8.72
5.05
C 3.67

174 54 10.4

175 57 10.1

173 + 51.34 M.H. #46
Bunker Hill ST.

Cont'd From
G 236-78

8" stub
NE side
700

173 + 25

B14. 520 15.82 1062
in other Book.

Artukovitch Co.

(M.H. R.P. GB, 236-30)
B.M. 5 " " - 79

F.G.

5.23
10.59
5.36
C 5.23

5.22
10.60
5.05
C 5.55

5.19
10.63
5.52
C 5.11

5.17
10.65
5.49
C 5.16

5.15

5.13

chisel II S.E. Cor. Gas M.H.
at Bunker Hill ST.

Inspector's Page

2

176+25 8" T east side 50 10.8
 7.20
 8.62
 4.78
 C 3.84

5.37
 10.45
 4.78
 C 5.67

176 51 10.7

5.35
 10.47
 4.65
 C 5.82

175 50 10.8

5.33
 10.49
 4.76
 C 5.73

150 56 10.7

5.31
 10.51
 5.14
 C 5.37

175+25 8" T east side 58 10.0
 7.10
 8.72
 5.45
 C 3.27

5.29
 10.53
 5.45
 C 5.08

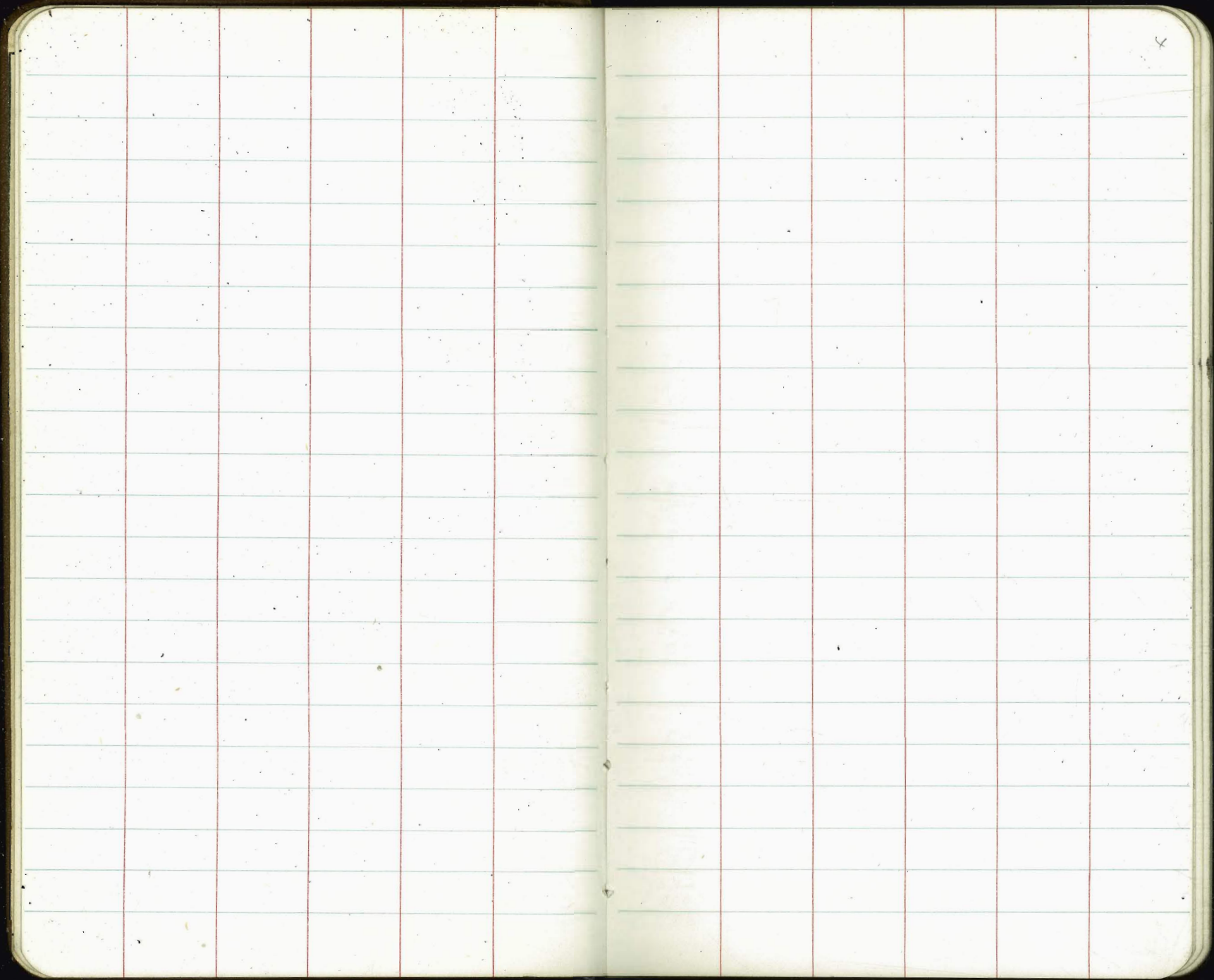
175 58 10.0

5.27
 10.55
 5.53
 C 5.02

174+75 58 10.0

5.25
 10.57
 5.40
 C 5.17

1582



178 1° 49.7 4.3 11.5

$$\begin{array}{r} 5.51 \\ 10.31 \\ 4.45 \\ \hline C 5.86 \end{array}$$

175 1° 27.1 4.7 11.1

$$\begin{array}{r} 5.49 \\ 10.33 \\ 4.82 \\ \hline C 5.51 \end{array}$$

150 1° 04.2 5.2 10.6

$$\begin{array}{r} 5.47 \\ 10.35 \\ 4.89 \\ \hline C 5.46 \end{array}$$

8° 41.3 R.
+25 8" T" outside 5.0 10.8 7.30
4.73
C 2.57

$$\begin{array}{r} 5.45 \\ 10.37 \\ 4.73 \\ \hline C 5.64 \end{array}$$

177 0° 12.5 R. 4.6 11.2

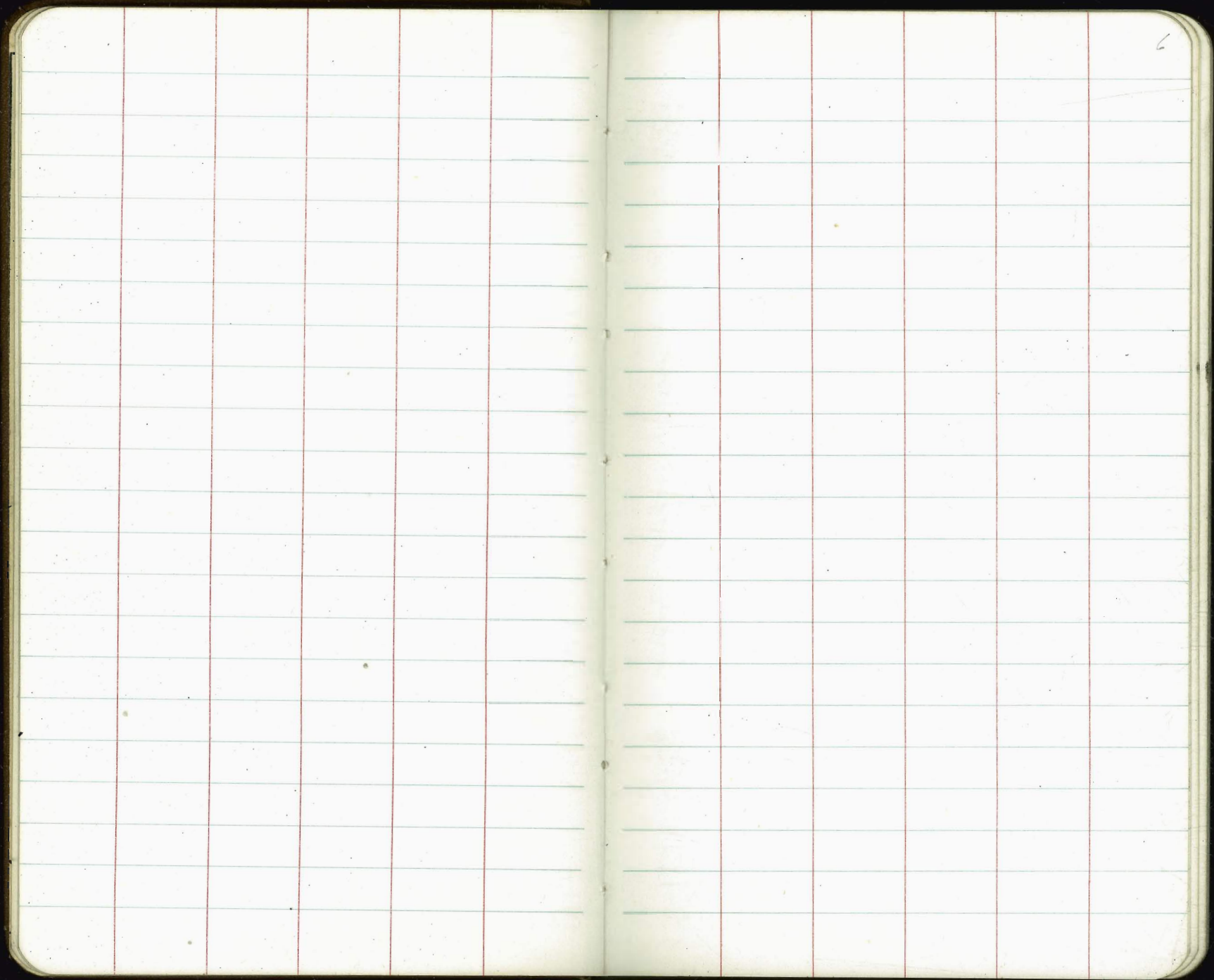
$$\begin{array}{r} 5.43 \\ 10.39 \\ 4.58 \\ \hline C 5.81 \end{array}$$
.9148 = 1'
20"

176 + 79.82 (B.C.R.) 4.9 10.9

$$\begin{array}{r} 5.41 \\ 10.41 \\ 4.63 \\ \hline C 5.78 \end{array}$$

176 + 50 4.7 11.1

$$\begin{array}{r} 5.39 \\ 10.43 \\ 4.60 \\ \hline C 5.83 \end{array}$$
158^m



4° 16.0 R
 +60 6" T " EAST side 10.6 13.9 7.50
 4° 16.4
 C 10.78

5.64
 18.89
 6.25
 C 12.64

9.15
 +50 4° 07.2 ✓ 10.8 12.7

5.63
 18.90
 6.25
 C 12.15

+25 3° 44.2 ✓ 11.7 12.8

5.61
 18.92
 7.15
 C 11.77

179 3° 21.4 ✓ 11.9 12.6

5.59
 18.94
 9.00
 C 9.94

+75 2° 58.5 ✓ 12.5 12.0

5.57
 18.96
 9.22
 C 9.34

T.P. 11.22 24.53 2.58 13.31

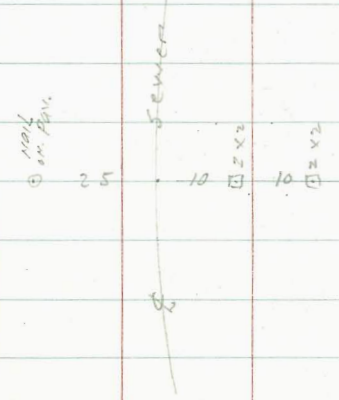
M.H. #47
 178+50.16 8" sub side 37 12.1 7.40
 2° 35.7
 C 5.91

5.55
 10.27
 2.51
 C 7.76

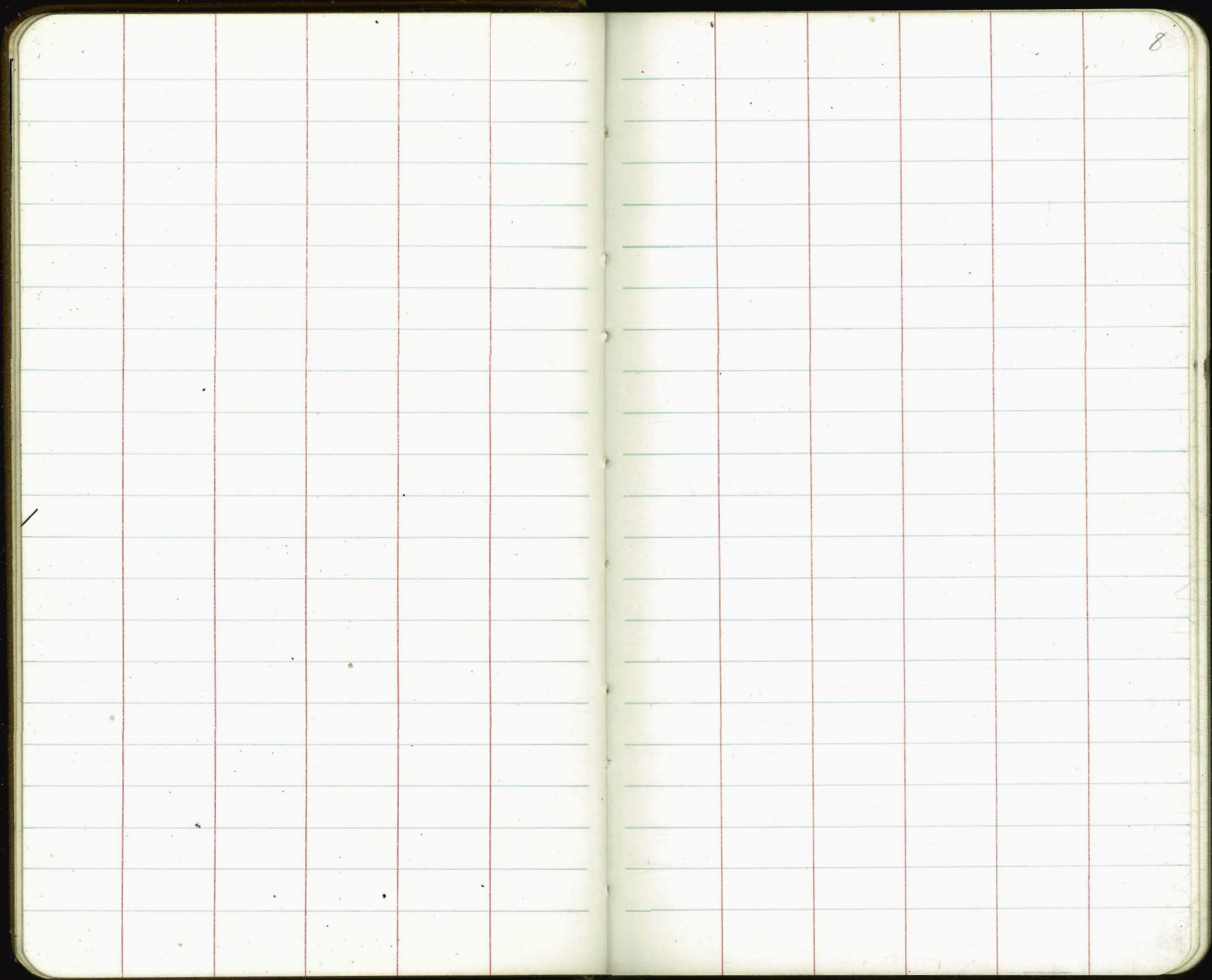
178+25 2° 12.8 R 36 12.2

5.53
 10.29
 3.24
 C 7.05

15.82



Top M.H.
 12.00
 3.82
 2.57
 C 1.31



8

181. 6°24.3 ✓ 11.4 14.8

5.75
20.40
4.88
C 15.52

175 6°01.4 ✓ 11.6 14.6

5.73
20.42
4.76
C 15.66

T.P. 2.40 26.15 0.78 23.75

160 5°47.5 ✓
6" T" cascade

9.5 15.0 7.60
16.93
0.78
C 16.15

5.72
18.81
0.78
C 18.03

150 5°32.5 ✓ 11.2 13.3

5.71
18.82
2.57
C 16.25

125 5°15.7 ✓ 11.5 13.0

5.69
18.84
2.92
C 15.92

180 4°52.8 ✓ 11.5 13.0

5.67
18.86
2.63
C 16.23

179+75 4°29.9 ✓ 10.2 14.3

5.65
18.88
4.51
C 14.27

24.53

181

T.F.

10

1

72

180

179

5

10

J.P.
 Check to
 B.Y.A.

661	21.14	11.62	14.53	14.52
182+75	9° 04.3 J	11.1	15.1	00,

150	8° 41.5 J	11.9	14.3	
-----	-----------	------	------	--

125	8° 18.6 J	11.7	15.0	
-----	-----------	------	------	--

182	7° 55.7 J	12.7	14.0	
-----	-----------	------	------	--

M.H. #48

181+73.97	7° 32.0 J	12.5	13.7	7.60
				18.55
				7.89
				C 10.66

8' stub
 east side

150	7° 10.0 J	11.5	14.7	
-----	-----------	------	------	--

181+25	6° 47.1 J	12.7	13.9	
	26.15			

F.L.
 chisel H
 Hvy Island
 E Pacific
 S.L. Magnolia

5.89
20.26
16.00
C 10.26

5.87
10.28
9.00
C 10.48

5.85
20.30
9.82
C 10.48

5.83
20.32
9.51
C 10.81

5.81
20.34
7.89
C 12.45

Top M.H.

13.60
12.55
7.89
C 4.66

5.79
20.36
7.00
C 13.36

5.77
20.38
6.08
C 14.30

NO. 2
 25

SEVEN

25

10



184425

3.8 17.3

6.01
15.13
3.25
C 11.48

183490

6" T east side

4.6 16.5 7.90

13.24
4.02
C 9.22

5.98
15.16
4.02
C 11.14

175

5.0 16.1

5.97
15.17
3.95
C 11.22

150

5.3 15.8

5.95
15.19
4.33
C 10.86

183421.95 EC

9° 47.5 5.9 15.2

5.93
15.21
4.21
C 11.00

183

9° 27.2

5.6 15.5

5.91
15.23
4.63
C 10.60

182490

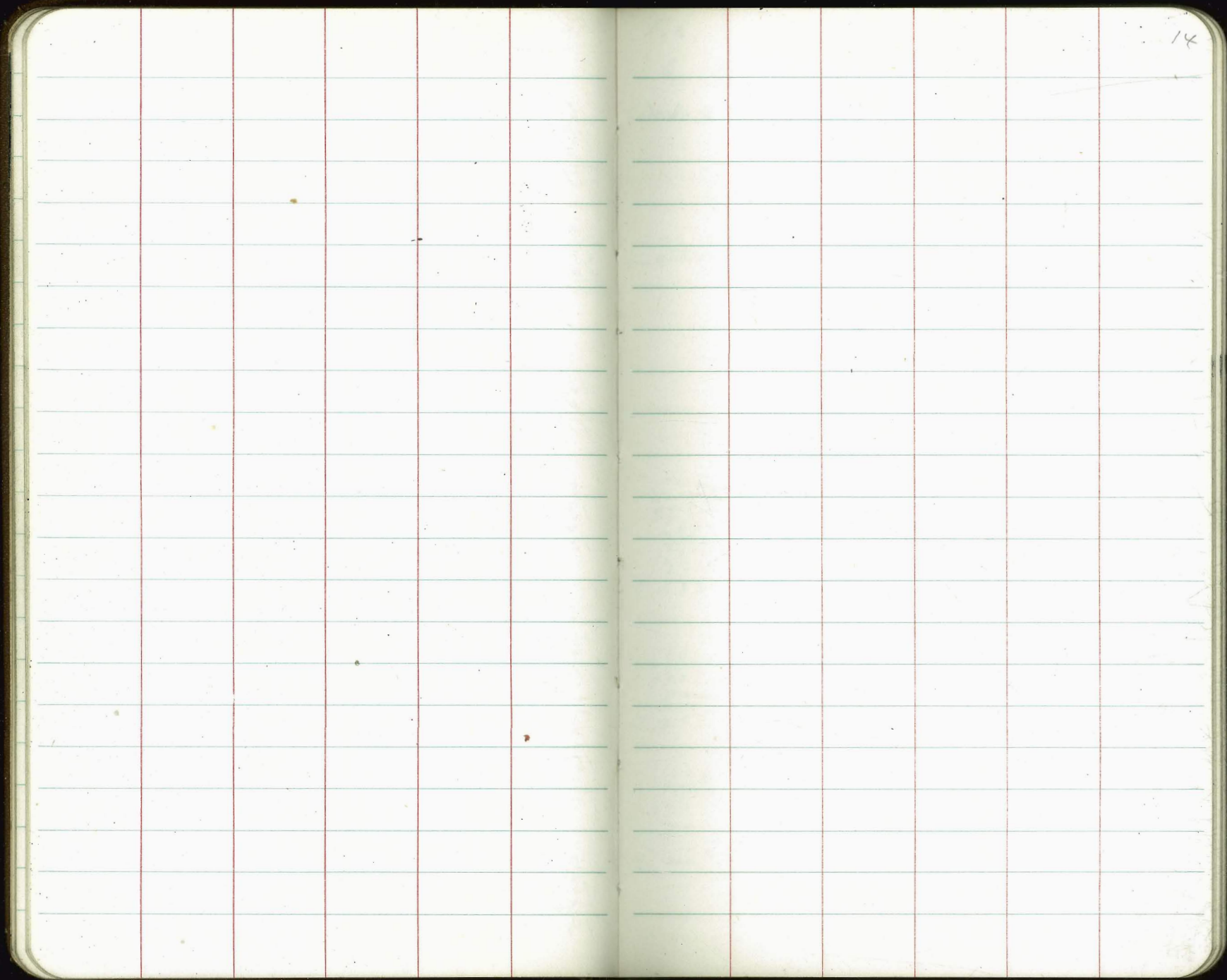
= 6" T east side
9° 18.0 fr.

5.6 15.5 7.80

21.14

13.34
4.28
C 8.46

5.90
15.24
4.28
C 10.36



BM.BP

21.02 S. end

Can. Base Union Gas Co. Island

F.L.

G. 234-19

Gas Pump

M.E.C. Balboa and Pacific

15

check to BM Above

35~

21.05

$\frac{21.02}{0.03}$

error in 1/2 miles

T.P.

7.8~

24.57

4.39

16.75

Sec G.B. 234-11

End Job

M.H. #219

185+00.5

8" Stub N. Side

37

17.9

8" Stub North

7.90

13.24

2.69

C 10.55

2" Stub East side

6.07

8.00

15.07

2.69

C 12.38

13.14

2.69

C 10.45

16.30

4.84

2.69

C 2.15

Top M.H.

Subject to lower grade

175

34

17.7

6.05

15.09

3.05

C 12.04

184+50

36

17.5

6.03

15.11

3.21

C 11.90

2114

INSPECTION

Page

From 1839-70 ✓
(now in office)

Listed only to R.R. Crossing

6-3-48

Q.E.L.

F.L.

17

150

59

4.8

-0.68

11.34

5.75

C 5.59

125

57

5.0

-0.70

11.36

5.74

C 5.62

100

56

5.1

-0.72

11.38

5.72

C 5.61

175

5.0

5.7

-0.74

11.40

5.66

C 5.74

150

5.1

5.6

-0.76

11.42

5.37

C 6.15

125

4.3

6.4

-0.78

11.44

5.31

C 6.13

99+00

34

7.3

-0.80

8.10

11.46

5.37

C 6.09

B.M. Spike

0.39

10.66

Pol c.

Lister St.

10.27

1839-60

The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. Each page is divided into two columns by a vertical red margin line. The right page has the number '18' written in the top right corner. The notebook is bound in the center, and the pages are otherwise blank.

\$
EGOV.

F.L.

19

125

5.0 5.7

-0.54
11.20
4.97
C 6.23

102

5.4 5.3

-0.56
11.22
5.22
C 6.00

175

5.4 5.3

-0.58
11.24
5.36
C 5.88

150

5.6 5.1

-0.60
11.26
5.67
C 5.59

125

5.7 5.0

-0.62
11.28
5.56
C 5.72

107

6.0 4.7

-0.64
11.30
5.60
C 5.70

100+75

5.8 4.9

-0.66
11.32
5.28
C 5.64

10.66

1000

1000

8
FL.

F.L.

21

104

62

8.4

$$\begin{array}{r}
 -0.40 \\
 15.01 \\
 5.54 \\
 \hline
 C 9.47
 \end{array}$$

175

5.6

9.0

$$\begin{array}{r}
 -0.42 \\
 15.03 \\
 5.25 \\
 \hline
 C 9.78
 \end{array}$$

150

4.9

9.7

$$\begin{array}{r}
 -0.44 \\
 15.05 \\
 5.23 \\
 \hline
 C 9.82
 \end{array}$$
check B.M.
Kane St
SPIKE IN TAIL

333

(14.61)

1.40

11.28

(11.28)

T.P.

3.46

12.68

1.44

9.22

8" stub
E. side

1034 18.14

H 2.9

A. 3" H 130" Lt

2.1

8.6

+ 1.40

$$\begin{array}{r}
 -0.47 \\
 11.13 \\
 1.44 \\
 \hline
 C 9.69
 \end{array}$$

Kane St.

9.26

1.44

C 7.82

103

34

7.3

$$\begin{array}{r}
 -0.48 \\
 11.14 \\
 3.15 \\
 \hline
 C 7.99
 \end{array}$$

175

41

6.6

$$\begin{array}{r}
 -0.50 \\
 11.16 \\
 4.29 \\
 \hline
 C 6.87
 \end{array}$$

102+50

4.5

6.4

$$\begin{array}{r}
 -0.52 \\
 11.18 \\
 4.37 \\
 \hline
 C 6.81
 \end{array}$$

10.66

175

5.4

9.2

-0.26

14.87

4.94

C 9.93

150

5.7

8.9

-0.28

14.89

4.54

C 10.35

125

6.0

8.5

-0.30

14.91

5.35

C 9.56

105

4.4

10.2

-0.32

14.93

3.93

C 11.00

175

6.3

8.3

-0.34

14.95

4.13

C 10.82

150

6.0

8.6

-0.36

14.97

5.03

C 9.94

10Y+25

5.9

8.7

-0.38

14.99

5.43

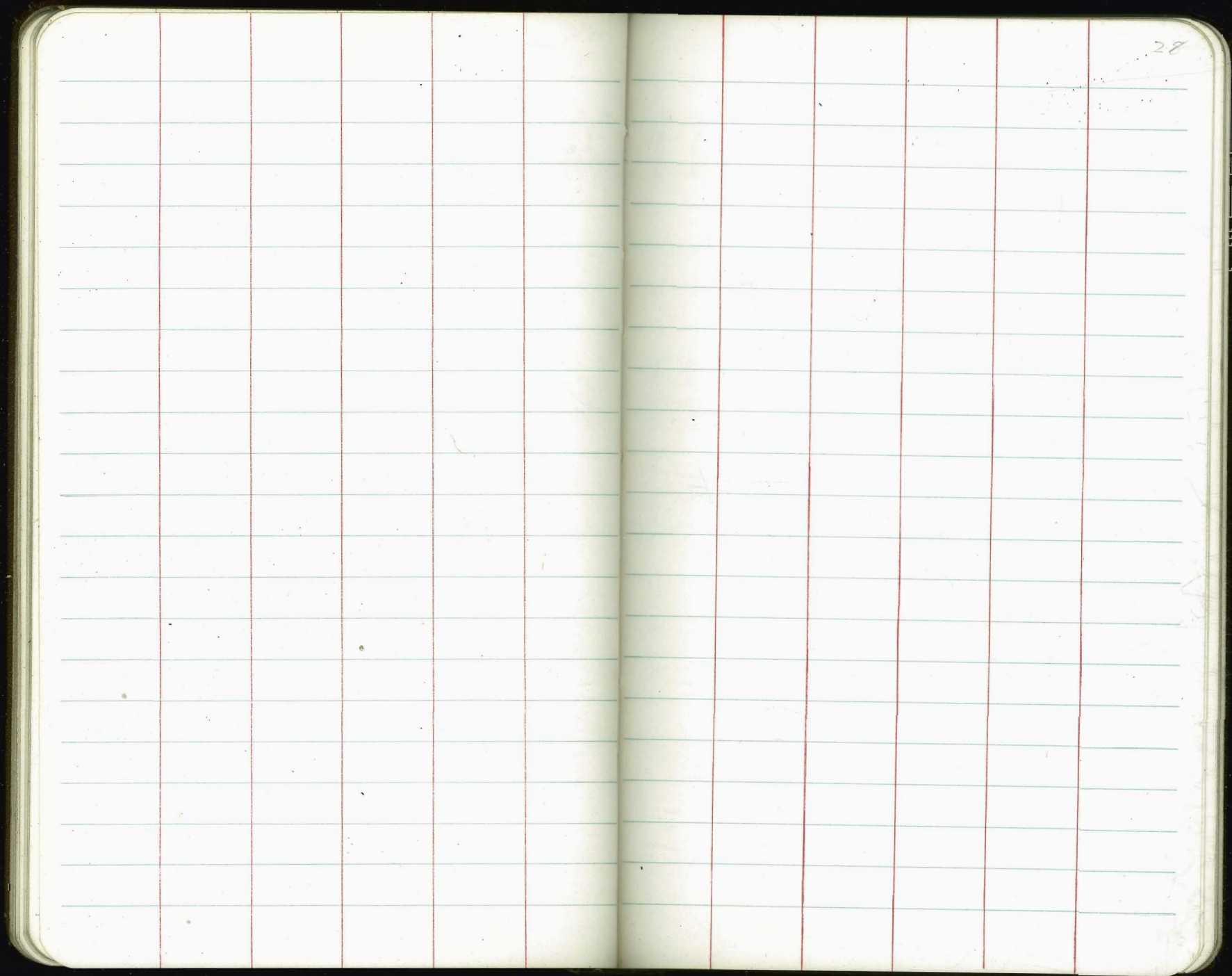
C 9.56

14.61

				4. Elev.	8" stub E. side	FL	25
M.H. #30 107159	A 32067	1.1	13.5	13.5	+1.70 12.91 0.90 C 12.01	-0.12 14.73 0.90 C 13.83	
125		2.1	12.5	12.5		-0.14 14.75 1.66 C 13.09	
107		2.4	12.0	12.0		-0.16 14.77 2.20 C 12.57	
175		3.0	11.6	11.6		-0.18 14.79 2.98 C 11.81	
150		3.5	11.1	11.1		-0.20 14.81 3.40 C 11.41	
125		4.3	10.3	10.3		-0.22 14.83 4.23 C 10.60	
106		4.8	9.8	9.8		-0.24 14.85 4.80 C 10.05	

1461

			26		F.L.		27
725		3.9	14.8		+ 0.02		
					18.65		
					3.36		
					15.29		
109		4.2	14.5		0.00		
					18.67		
					3.55		
					15.12		
775		4.8	13.9		- 0.02		
					18.69		
					3.61		
					15.08		
750		4.5	14.2		- 0.04		
					18.71		
					3.75		
					14.96		
725		6.0	12.7		- 0.06		
					18.73		
					4.76		
					13.97		
108		4.9	13.8		- 0.08		
					18.75		
					4.37		
					14.38		
107+75		5.3	13.4		- 0.10		
check to B.M. Mon. sur. 7.26 (18.67) J. L. Lott Morena		3.20	11.41	11.41 ✓	18.77		
					3.03		
					13.74		
					14.61		



28

Elev.

F.L.

29

111 5.4 14.7

$$\begin{array}{r} 0.16 \\ 19.39 \\ 5.84 \\ \hline 14.35 \end{array}$$

775 4.3 15.3

$$\begin{array}{r} 0.14 \\ 19.41 \\ 5.25 \\ \hline 14.16 \end{array}$$

750 3.9 15.7

$$\begin{array}{r} 0.12 \\ 19.43 \\ 5.16 \\ \hline 14.27 \end{array}$$
TP 4.66 19.55 3.78 14.89

725 3.0 15.7

$$\begin{array}{r} 0.10 \\ 18.57 \\ 3.78 \\ \hline 14.79 \end{array}$$

110 3.4 15.3

$$\begin{array}{r} 0.08 \\ 18.59 \\ 3.67 \\ \hline 14.92 \end{array}$$

775 3.2 15.5

$$\begin{array}{r} 0.06 \\ 18.61 \\ 3.56 \\ \hline 15.05 \end{array}$$

109750 3.5 15.2

$$\begin{array}{r} +0.04 \\ 18.63 \\ 3.61 \\ \hline 15.02 \end{array}$$
18.67

Elev.

F.L.

112+63.6 Spec. Joint 7.3 95

0.29
16.55
5.95
C 10.60

112+58 End Jack 6.5 103

0.28
16.56
4.50
C 12.06

111+86 Beg. Jack 9.4 74

0.23
H 16.84
RM 16.61
0.52
C 8.09

111+83.6 Spec. Joint 11.10 57

check to BM

252 16.84 5.23 14.32 14.32

0.22
16.62
0.23
BM check

MH 431
111+65.6 50° 26' 30" Lt 10.6 90
In gully st.

12" stub
E. side
2.00
17.55
4.84
C 12.71

+ 0.21
19.34
4.84
C 14.50

150 5.6 14.0

+ 0.20
19.35
4.85
C 14.50

111+25 5.5 14.1

+ 0.18
19.37
4.95
C 14.42

19.55

33
5+43 - end

2302

23
5+33

2250
Par

40
5+50

1940
Par

T.P.

18.45

4+90

5+00 on Parking NLY edge

12.80

1501

Parking.

ft
elev.

F.6.

750

5.4

6.6

0.44
11.55
4.66
C 6.89

725

5.4

6.6

0.42
11.57
4.55
C 7.02

714

5.4

6.6

0.40
11.59
4.49
C 7.10

769

5.3

6.7

0.38
11.61
4.45
C 7.16

T.P.

5.62 (11.99)

10.47

6.37

M.H. #32

113 + 40.7

A 44° 48' R.

10.5

6.3

0.35
16.49
9.57
C 6.92

720

8.6

8.8

0.34
16.50
7.00
C 9.50

113

5.9

10.9

0.32
16.52
6.58
C 9.94

16.84

Wright St.

Walker 3/2/50

True Elev.

3v

Cont. P-36

1493 - Garage on Lt Dirt Floor

26
40

~~26~~

1450

INDEXED
N.K.
MAY 8 1950

27

31

36
40

1425 - End east. Porch on Lt.

279

29

34
40

40
Porch

1400

274

28

32
40

40
Porch

0750

256

26

28
40

40
Porch

0713 - E.C. Ch Ret.

278

240

23

280

Note: Pav. Grades for Portion this St. R54

40

26

26

on Pav.

conc.

26

0700

230

0-08

235

0-20.5 on Porch

268

2.78

Christed Square
B.M. 5567 Ret. Wright & Pacific
181602-54

EL.

F.L.

35.

425

3.5

8.5

0.58
11.41
1.69
C 9.72

116

3.5

8.5

0.56
11.43
2.21
C 9.22

475

3.9

8.1

0.54
11.45
2.09
C 9.36

450

4.1

7.9

0.52
11.47
2.17
C 9.30

425

4.2

7.8

0.50
11.49
2.88
C 8.61

115

4.8

7.2

0.48
11.51
3.72
C 7.79

114 475

5.0

7.0

0.46
11.53
4.31
C 7.22

11.99

Wright Street

Cont. P. 34

Cont. P. 32
 4+186 = E. Rail Santa Fe
 4+186 = E.D. Rail Santa Fe
 T.P.
 3+63.9 = V.H. Rail Spur Track
 3+37.5 = L. Kurtz
 3+12 = W.W. Co. Line Kurtz
 T.P.
 3+00 = V.H. Kurtz
 2+50
 2+30 = 4' dirt walk
 2+03 = 2' 2" Conc. Walk on Lt.
 2+00
 2.78

LT	±	RT	36
		True Elev.	
		1485	
		1431	
	1256	1280	1296
	40 Rail	Rail	Rail
6.9 140	10.0 40	11.1	11.0 40 140
5.68 192 on cb	8.51 92 on cb	9.3 40	9.9 40
2.36	8.9 40	8.8	9.8
	5.3 40	5.6	6.7 40
	4.1 40		
	2.93 40 on Walk		
	2.8 40	3.8	4.6 40

g
FL.

FL.

37

Check A BM. ch. 58.
Hwy Island
1839-80

5.31 6.38 6.39
0.01

T.P. 4.51 11.69 4.81 7.18

Cont'd. in F.B. 1839.

6-4-48.
No Pipe

M.H. #33
117+08.90 5°30'30" Lt.

0.64

+75

0.64
11.37
0.99
C10.38

116+50

3.8 8.2

0.60
11.39
2.18
C9.21

11.99

Const Paved ditch & drain
 Pac. B. Dr. to Reed,
 E of Mission Blvd.

7.50

INDEXED

WK
 JAN 1 2 1949

F.L.

-4.08
 4.16
 8.24
 5.12
 C 3.12

-4.23
 4.16
 8.39
 4.50
 C 3.89

0 + 56.4 A cleanout

-4.37
 4.16
 8.49
 5.65
 C 2.84

0 + 28.7 C + R. P B Dr.

-4.42
 4.16
 8.58
 5.80
 C - 2.78

0 + 100 Ex. Box drain
 Pac. B. Drive

-4.50
 4.16
 8.66
 6.44
 C 2.22

NEBP 5.89 4.16
 Pac. B. Dr.
 Mission Blvd.

-1.73 BM

W.D. 21029

3 + 22.6 E curb offset
 INLET 1.31
 END PIPE
 Set Oliver St.

(Set 2x2 10' x 20' R.P. to property corner pipe)

3

-3.64
 4.16
 7.80
 5.18
 C 2.62 ✓

7.50

-3.77
 4.16
 7.95
 5.56
 C 2.39

2

-3.93
 4.16
 8.09
 5.66
 C 2.43

1778 Valley C.B.

4.16
 ~~~~~

-4.00  
 4.16  
 8.16  
 4.32  
 C 3.84

Moore 38  
 899  
 S. S. S. S. S.  
 13.11.47  
 1-10-47

1/11.1 Top grate  
 -3.50 -2.26  
 4.16 4.16  
 7.66 5.42  
 5.14 5.14  
 C 2.52 C 1.28

TP 254 (227) 3.34 dip 20.27

4+00 1.77  
~~2.04 5.11~~  
~~5.37 3.34~~  
~~8.41~~  
~~3.61~~  
~~2.80~~ C 1.77  
 5.69 5.37  
 TP 4.16 4.48 -0.32

3+820 A P+X50' -2.10 5.17  
~~4.16 3.40~~  
~~6.26~~  
~~4.48~~  
~~1.78~~

3+620 -2.15 5.22  
~~4.16 3.40~~  
~~6.31~~  
~~4.96~~  
~~1.35~~ C 1.77

3+520 -2.18 5.25  
~~4.16 3.40~~  
~~6.34~~  
~~5.43~~  
~~0.91~~ C 0.89

3+270 -2.20 5.37  
~~4.16~~  
~~6.40~~  
~~5.00~~  
~~1.40~~  
 4.16  
 -1.73

6  
~~1.53 3.80~~  
~~5.37 2.07~~  
~~6.90~~  
~~5.47~~  
~~1.73~~ C 1.77

5+50 -1.76 3.93  
~~5.37 2.33~~  
~~7.03~~  
~~5.43~~  
~~1.60~~ C 1.60

5+17.7 Valley -1.76 4.03  
~~5.37 2.25~~  
~~7.13~~  
~~5.34~~  
~~1.79~~ C 1.78

5+00 -1.80 4.07  
~~5.37 2.25~~  
~~7.17~~  
~~5.35~~  
~~1.82~~ C 1.81  
 4+65 5 -1.88

4+50 -1.92 4.19  
~~5.37 2.48~~  
~~7.29~~  
~~5.52~~  
~~1.77~~ C 1.77  
 5.37  
 (2.27)



|    |      |      |      |       |     |
|----|------|------|------|-------|-----|
|    |      |      | 6.32 | -1.73 | BM. |
| TP | 3.61 | 4.59 | 4.39 | +0.98 |     |

|       |               |             |               |
|-------|---------------|-------------|---------------|
|       | To Alloy      |             | FLAT          |
|       | Ret           |             |               |
| 6+726 | - 0.66        | 2.95        | - 1.20        |
|       | <u>5.37</u>   | <u>2.51</u> | <u>5.37</u>   |
|       | 6.03          | 0.42        | 6.57          |
|       | C <u>5.62</u> |             | C <u>5.62</u> |
|       | 0.41          |             | 0.95          |

dip

|      |         |        |             |               |
|------|---------|--------|-------------|---------------|
| 6+52 | SL Reed | - 0.45 | - 1.20      | 3.67          |
|      |         |        | <u>5.37</u> | <u>1.95</u>   |
|      |         |        | 6.77        | C <u>1.72</u> |
|      |         |        | <u>5.06</u> |               |
|      |         |        | C 1.71      |               |

(227)

5.37



L 727C

PAVING GRADES

ALLEY BLK. 47 Park Villas

MOORE  
BEgg 3-11-49  
SHERMAN

W.O. 31352

Sketch - 1539-12

0+80

INDEXED

WK

MAR 16 1949

$$\begin{array}{r} 31.87 \\ 3.82 \\ 2.80 \\ \hline C 1.02 \end{array}$$

$$\begin{array}{r} 31.92 \\ 3.77 \\ 3.19 \\ \hline C 0.58 \end{array}$$

0+50

$$\begin{array}{r} 31.44 \\ 4.25 \\ 3.64 \\ \hline C 0.61 \end{array}$$

$$\begin{array}{r} 31.46 \\ 4.23 \\ 3.98 \\ \hline C 0.25 \end{array}$$

0+20 BRK.

$$\begin{array}{r} 31.00 \\ 4.69 \\ 4.20 \\ \hline C 0.29 \end{array}$$

30.75

$$\begin{array}{r} 31.00 \\ 4.64 \\ 4.63 \\ \hline C 0.06 \end{array}$$

0+00 H.L. MYRTLE

$$\begin{array}{r} 330.72 \\ 4.97 \\ \hline \checkmark \end{array}$$

$$\begin{array}{r} 330.37 \\ 5.32 \\ \hline \end{array}$$

$$\begin{array}{r} 330.58 \\ 5.11 \\ \hline \checkmark \end{array}$$
B.M.  
SWBP

534

335.69

330.35

32<sup>nd</sup> L  
Myrtle

120

3389  
5.56  
5.00  
C 0.50

3373

3406  
5.39  
5.34  
C 0.05

2400 BVC

3362  
5.83  
5.47  
C 0.36

3344

3376  
5.69  
5.32  
C 0.37

1170

3318  
6.27  
5.97  
C 0.30

3330  
6.15  
5.92  
C 0.23

T.P.

571

339.45

356

333.74

1140

3274  
4.56  
4.04  
C 0.52

3284  
4.46  
4.06  
C 0.40

1110

3231  
4.99  
4.37  
C 0.62

3238  
4.92  
3.75  
C 1.17

T.P.

529

337.20

368

332.01

335.69



3 + 40

3 + 10

2 + 80 EVC

T.P. 5.55 340.03 4.97 334.48

2 + 60

2 + 40

339.45

L1

8

R1

43

34.82  
5.21  
4.15  
C 1.06

34.64  
5.39  
4.71  
C 0.68

34.45  
5.58  
4.98  
C 0.60

34.31  
5.14  
4.40  
C 0.74  
MAIL

34.12  
5.33  
4.91  
C 0.42

35.07  
5.01  
4.94  
C 0.07

34.84  
5.19  
5.07  
C 0.12

34.65  
5.38  
5.32  
C 0.06

34.51  
4.94  
4.73  
C 0.21

34.30  
5.15  
4.97  
C 0.18

34.30

34.16

33.96



4+90

3576  
5.73  
5.47  
C 0.26

35.96  
5.53  
5.32  
C 0.21

460

35.57  
5.92  
5.01  
C 0.91

35.77  
5.72  
5.15  
C 0.57

T.P.

5.12 341.49 4.82 336.37

430

15  
35.39  
5.80  
5.13  
C 0.67

35.59  
5.60  
5.33  
C 0.27

400

35.20  
5.99  
5.42  
C 0.57

35.40  
5.79  
5.37  
C 0.42

3+70

T.P.

5.57 341.19 4.41 335.14  
340.03

35.01  
6.18  
5.31  
C 0.87

35.21  
5.88  
5.79  
C 0.09

770 333.35 333.37  
 0.02  
 diff.

6 + 0.5 S.L. Dwight

+ 80

T.P. 474 341.05 518 336.31

+ 60

+ 40

5 + 20 B.V.C.

341.49

Lt 2 R4 45

333.30 3311  
 7.75 from 7.94  
 7.62  
 C 0.13 ← Top curb

3325  
 7.80 From  
 7.70 Top  
 C 0.10 ← curb

3456 3434  
 6.49  
 4.94  
 C 1.55

3464  
 6.43  
 4.71  
 C 1.72

3541 3523  
 6.08  
 4.57  
 C 1.51

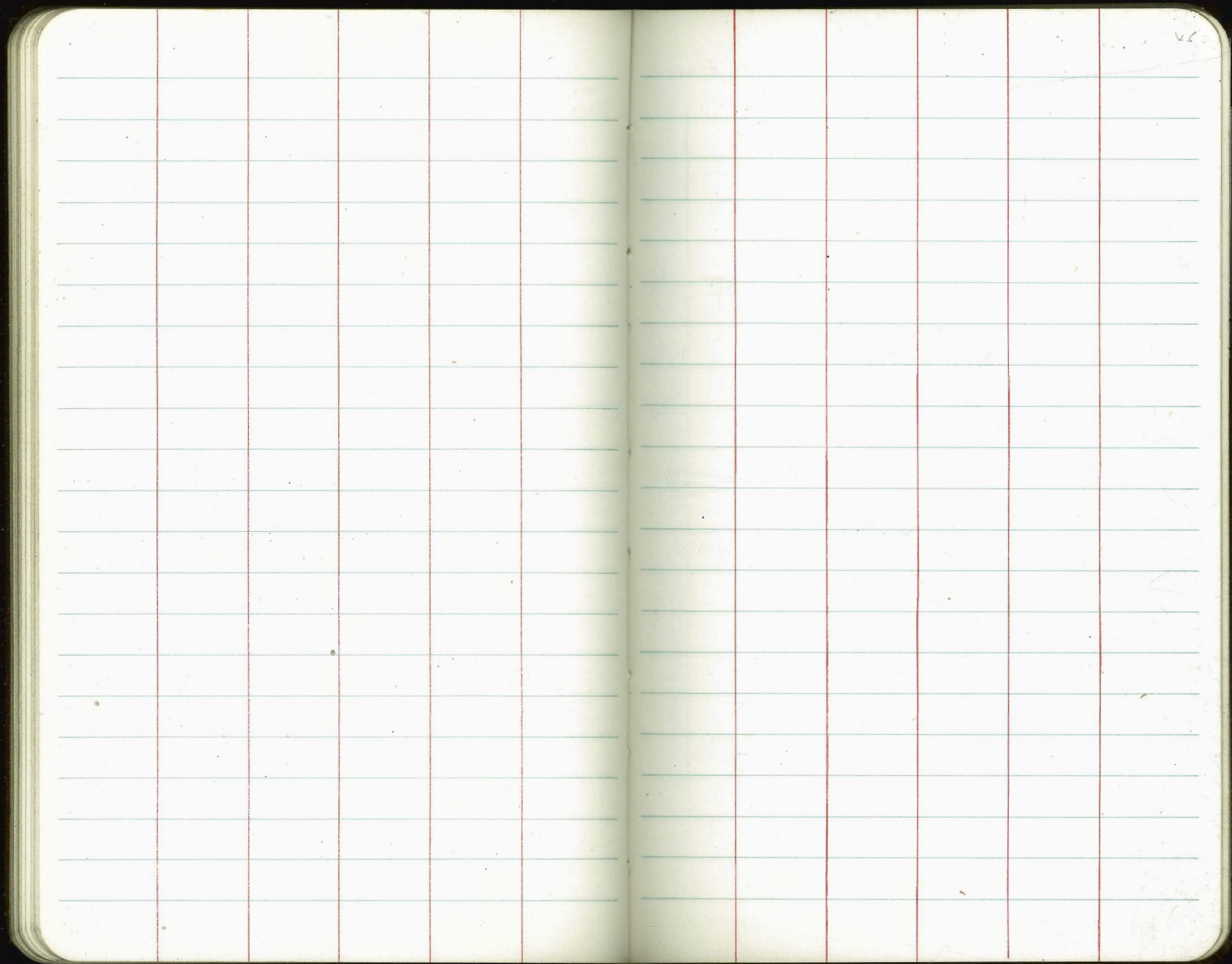
3555  
 5.94  
 4.94  
 C 1.00

3588 3569  
 5.61  
 5.03  
 C 0.58

3600  
 5.49  
 4.86  
 C 0.63

3595 3580  
 5.54  
 4.93  
 C 0.61

3615  
 5.34  
 4.52  
 C 0.82





Johnson  
Clark  
Gregory  
Moore  
10-26-49  
W.O. 31485

Grade Stakes

Alley 35 OCEAN Beach

Sunset Cliffs Blvd.

47

INDEXED

N.Y.C.  
MAY 8 1950

Del Mar Ave

Ave.

Norvangansett

Ave.

5+98.89

10' 10'

Ebers

Street

Grade Stakes - Alley 35  
Between Ebers & Sunset Cliffs  
Ocean Beach

1+85 Brk 110 31485

Levels Run on  
Stakes by Walker 10-26-79

1+60 " 931 56.43

T.P. 146 57.89 931 56.43

1+35 Brk PVC

1+10

0+90

0+70

0+50

0+30

T.P. 307 65.74 892 62.67

0+10 Brk

0+00 = Edge Existing Pavement

B.M. 0.33 71.59 71.26

Left  
Finish  
Grade

Cross  
2' Back 52.50

2' Back  
C 0.56  
2.72  
2.78  
55.11

Stub  
2' Back C 1.03  
7.91  
8.94  
56.80

Stub  
2' Back C 1.28  
5.94  
7.22  
58.52  
58.80

Stub  
2' Back C 2.24  
4.92  
5.86  
59.88  
60.12

Stub  
2' Back F 2.15  
4.65  
4.50  
61.24  
61.42

2' Back  
C 0.64  
2.54  
3.14  
62.50  
62.72

Stub  
0.85 Back C 2.35  
1.43  
1.78  
63.96  
64.02

0.91 Back C 1.80  
4.97  
6.27  
65.32

C 0.02  
5.37  
5.59  
66.00

Right 48  
Finish  
Grade

2' Back 52.20

F 1.39  
4.46  
3.07  
54.81

Stub  
2' Back F 0.07  
9.31  
9.24  
56.50

Stub  
2' Back F 2.36  
7.85  
7.89  
58.25  
58.60

Cross  
2' Back F 0.21  
6.81  
6.10  
59.64  
59.92

Cross  
2' Back F 2.45  
5.16  
4.71  
61.03  
61.24

Cross  
2' Back F 2.10  
5.22  
3.33  
62.42  
62.50

2' Back  
C 0.00  
1.93  
1.93  
63.81  
63.88

0.30 Back C 0.17  
6.22  
6.39  
65.20

C 0.05  
6.07  
6.02  
65.57

1st. Svc Cor. Del Monte & Ebers St.



Grade Stakes - Alley - 35  
Between Ebers & Sunset Cliff  
Ocean Beach

|            |      |       |       |       |
|------------|------|-------|-------|-------|
| 4+80 ENC   |      |       |       |       |
| 4+55 Bk    |      |       |       |       |
| TP         | 2.72 | 41.85 | 11.50 | 39.13 |
| 4+30 Bk    |      |       |       |       |
| 4+05       |      |       |       |       |
| 3+80 = A/C |      |       |       |       |
| 3+50       |      |       |       |       |
| TP         | 5.38 | 50.63 | 12.64 | 45.25 |
| 3+25       |      |       |       |       |
| 2+75       |      |       |       |       |
| 2+25 = ENC |      |       |       |       |
| 2+10 Bk    |      |       |       |       |

5789

|         | Left           |       | Right          |
|---------|----------------|-------|----------------|
|         | Finis<br>Grade |       | Finis<br>Grade |
| Co. 91  | 33.34          |       | 37.58          |
| 2' Back | 37.80          |       | 37.50          |
|         | C 0.86         |       | C 0.97         |
|         | 2.40           |       | 2.59           |
| 2' Back | 38.59          |       | 38.29          |
|         | C 1.22         | 41.85 | C 0.11         |
|         | 9.89           |       | 11.24          |
|         | 11.05          |       | 11.35          |
| 2' Back | 39.58          |       | 39.28          |
|         | C 0.89         |       | C 0.57         |
|         | 9.00           |       | 9.62           |
|         | 9.89           |       | 10.19          |
| 2' Back | 40.74          |       | 40.44          |
|         | C 0.87         |       | C 0.40         |
|         | 7.66           |       | 8.43           |
|         | 8.53           |       | 8.83           |
| 2' Back | 42.10          |       | 41.80          |
|         | C 0.72         |       | C 0.12         |
|         | 6.06           |       | 6.96           |
|         | 6.78           |       | 7.08           |
| 2' Back | 43.85          |       | 43.55          |
|         | C 0.43         | 50.63 | C 0.25         |
|         | 17.16          |       | 12.64          |
|         | 12.59          |       | 12.89          |
| 2' Back | 45.30          |       | 45.00          |
|         | C 1.27         |       | C 0.45         |
|         | 8.43           |       | 9.55           |
|         | 9.70           |       | 10.00          |
| 2' Back | 48.19          |       | 47.89          |
|         | C 1.32         |       | C 0.22         |
|         | 5.49           |       | 6.89           |
|         | 6.81           |       | 7.11           |
| 2' Back | 51.08          |       | 50.78          |
|         | C 1.26         |       | F 0.01         |
|         | 4.57           |       | 6.24           |
|         | 5.83           |       | 6.28           |
| 2' Back | 51.96          |       | 51.66          |

5789



Grade Stakes - Alley - 35  
 Between Ebers & Sunset Cliff  
 Ocean Beach.

Left  
 Finis  
 Grade

\$

Right  
 Finis  
 Grade

50

549884 FB1866-17 003  
 Chk Top cb <sup>99'</sup> 7.56 34.32  
 34.29

549884 Edge Existing Pavement

548084

5430

4185

7.60 Existing Pav.  
 7.57  
 34.28

Start in Hoop 6.43  
 0.5 in 5.42  
 Alley 6.85  
 35.00

6.38  
 5.07  
 5.45  
 1' Back 36.40

7.71 Existing Pav.  
 7.68  
 34.17

6.99  
 6.16  
 7.15  
 34.70 1' Back  
 6.56  
 5.19  
 5.75  
 36.10 1' Back  
 36.18

4185

KELLOGG PARK PAVING

Plan 1392-D No 20-426

Grades shown on opposite

page are Finish Paving.

Note: First set of Stakes were set to Subgrade = 0.15' Below Finish.

on map with Calle Proscota  
& Kellogg Park

TP 271 4.83

TP 5.84 7.54 562 1.70

INDEXED  
MAY 8 1950

2.20 7.32

512

B.M. 544  
Fire Hyd  
Vallecitos  
Del Oro  
FB 1811  
68

Calle Proscota

51

|         |      |     |     |     |      |     |
|---------|------|-----|-----|-----|------|-----|
| 5+71.81 | 216  | 232 | 240 | 250 | 260  |     |
|         | -283 | 40  | 50  | 60  | 5445 |     |
| 5+26    | 184  | 218 | 237 | 260 | 288  | 304 |
| 4+76    | 187  | 221 | 240 | 264 | 293  | 304 |
| 4+26    | 184  | 224 | 244 | 268 | 298  | 312 |
| 3+76    | 185  | 227 | 247 | 273 | 303  | 319 |
| 3+26    | 184  | 230 | 251 | 277 | 302  | 323 |
| 2+76    | 182  | 233 | 254 | 281 | 313  | 327 |
| 2+26    | 185  | 235 | 257 | 285 | 318  | 342 |
| 1+76    | 188  | 237 | 260 | 288 | 323  | 350 |
| 1+26    | 191  | 232 | 255 | 283 | 318  | 348 |
| 0+76    | 196  | 227 | 250 | 278 | 313  | 342 |
| 0+26    | 194  | 222 | 246 | 273 | 307  | 323 |
| 0+00    | 219  | 240 | 246 | 261 | 276  | 283 |

Vallecitos

Camino Del Oro



Walker  
Gregory  
Pope  
K. Bissler  
12-30-49

"B" Street  
Gutter Grades

on South Side for St. Dept.

|                       | Rods | Flux Line |
|-----------------------|------|-----------|
| 3+68 = Exist. Grating | 5.19 | 195.79    |
| +50                   | 5.16 | 195.82    |
| +25                   | 5.12 | 195.86    |
| 3+00                  | 5.08 | 195.90    |
| 2+75                  | 5.04 | 195.94    |
| 2+50                  | 5.00 | 195.98    |
| 2+25                  | 4.96 | 196.02    |
| 2+00                  | 4.92 | 196.06    |
| 1+75                  | 4.88 | 196.10    |
| 1+50                  | 4.84 | 196.14    |
| 1+25                  | 4.80 | 196.18    |
| 1+00                  | 4.76 | 196.22    |
| 0+75                  | 4.72 | 196.26    |
| 0+50                  | 4.68 | 196.30    |
| 0+25                  | 4.64 | 196.34    |
| 0+00                  | 4.60 | 196.38    |

INDEXED  
N.K.  
MAY 8 1950

401 300.98 196.97

3+68



Curb Line

B-57



0+00

28+0

B.M. NW. C.P. "B" = 2.7+2



Walker  
F. Gregory  
G. Pope  
R. Allison  
12-30-49

B-Street  
Levels to Determine  
Settlement of Fill  
West of 28th St.

Check starting 811 401 196.97

Set 811. 306 197.92

3480 • Polk

2100

A B C  
" " "

Nail on Stake  
"C" 1" N N cb. hix 5.110 195.870

"B" on large Nail 4.304 196.676

"A" on Nail on Stake 4.490 196.490

0700

28th

811  
NW 1/4  
8-27th

401 200.980 196.97

28th

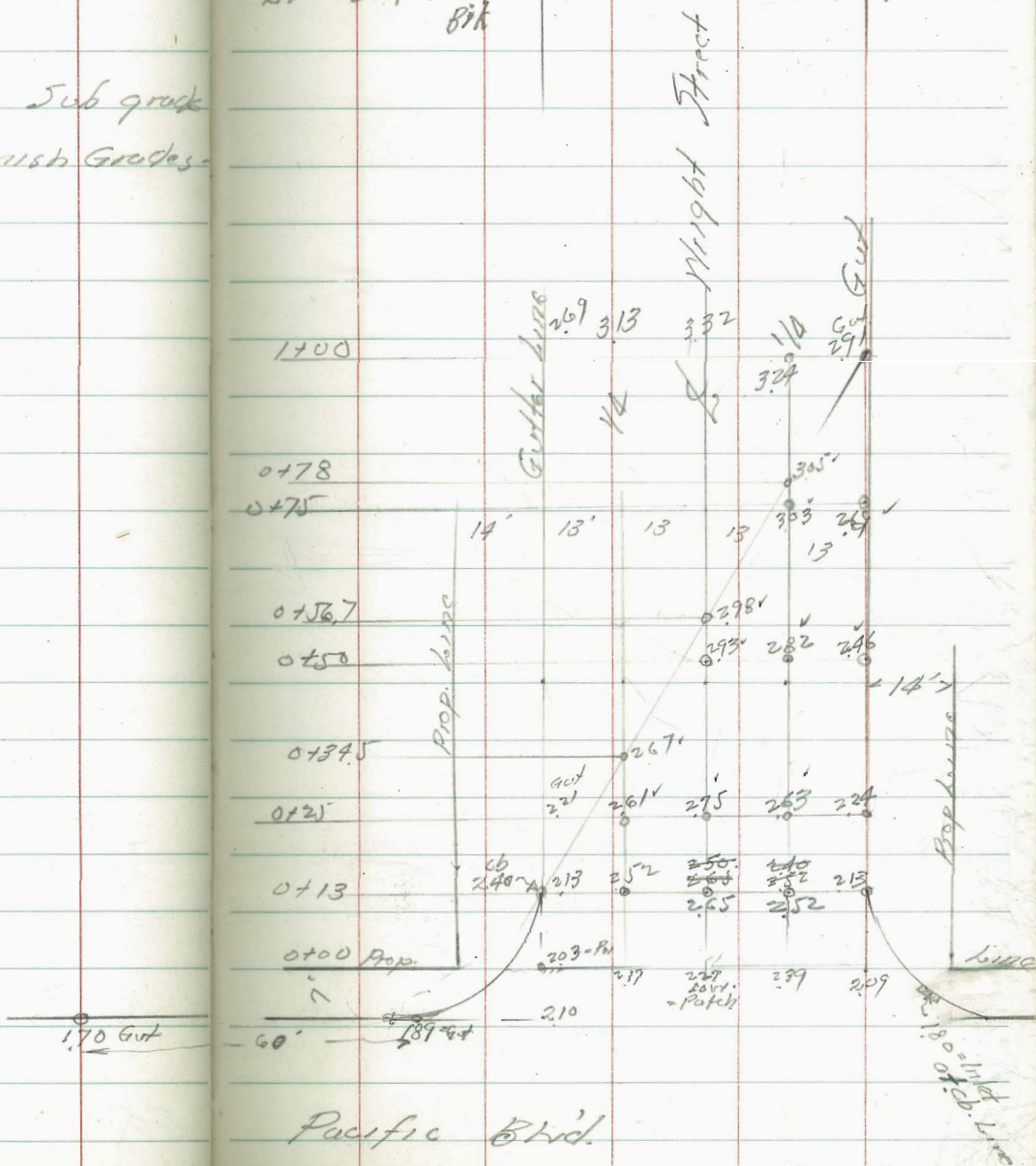
Setting Grades - Wright St

Walker  
 Pope  
 CO. 119  
 7-27-50

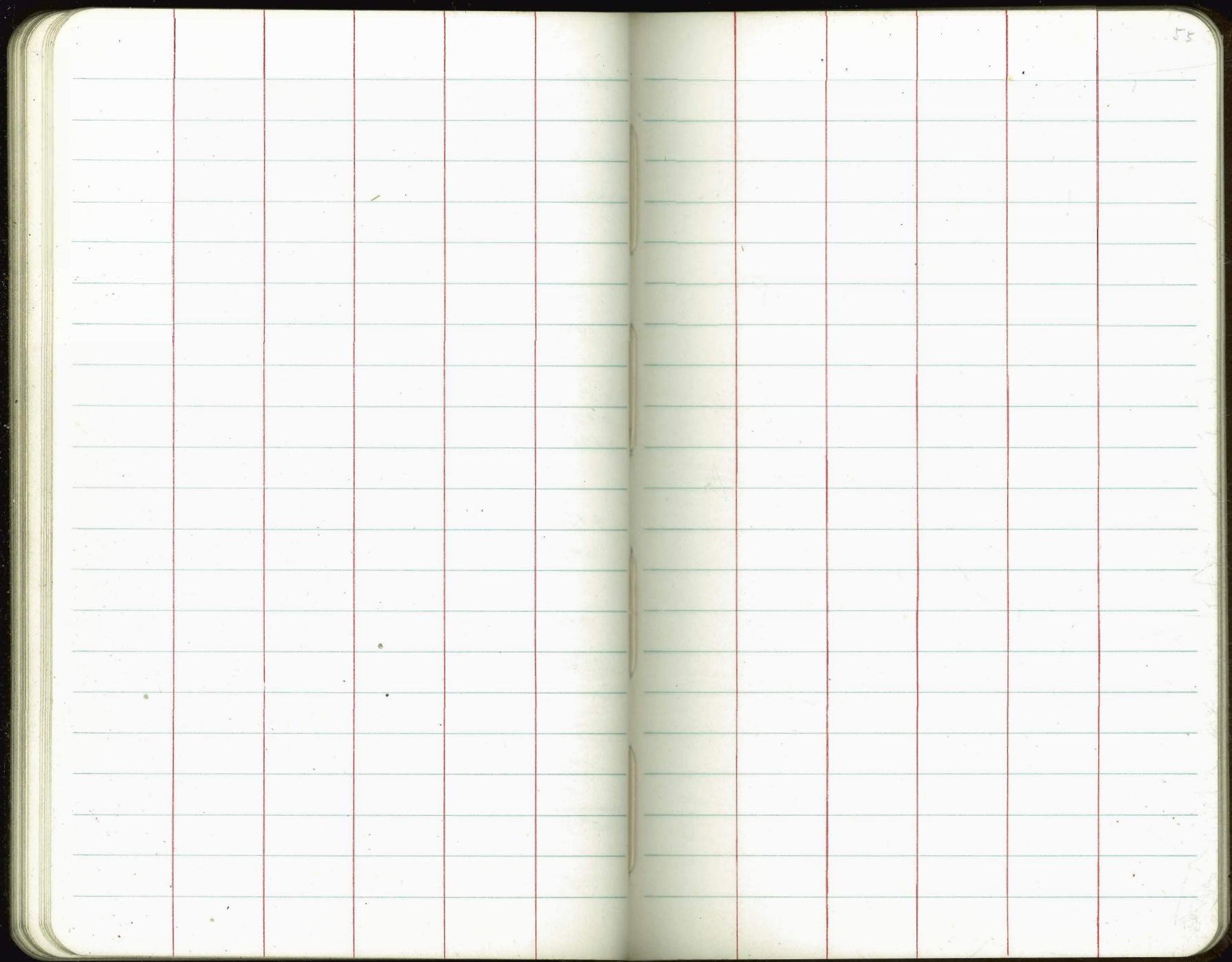
Notes: Stakes set to Sub grade  
 which is 0.33 below finish Grades.  
 Which are shown in sketch.

2100 Brk <sup>cb</sup> 398 <sup>331</sup>  
 Brk

<sup>54</sup>  
<sup>cb</sup>  
 331 448 - Brk







55



The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. Each page is divided into two columns by a vertical red margin line. The notebook has rounded corners and a dark, possibly black, cover. The pages are blank, with no handwriting or printed text. The number '52' is faintly visible in the top right corner of the right-hand page.

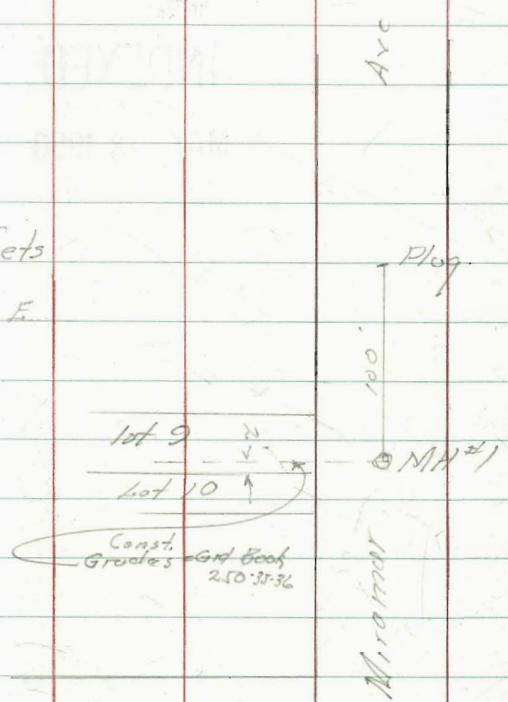
Walker  
 F. Granger 117 MIRAMAR AVE  
 Pope  
 R. Sisson North of Pearl St.  
 11-30-49

Plan 3841-B WO 20601

INDEXED  
 MAY 11 8 1950

Grid Book 250  
 Check Grid stake 1450 10.21 159.20

|               |       |        | El. or<br>Invert         |        |  |
|---------------|-------|--------|--------------------------|--------|--|
| 1+00 Plug End |       | 913    | <del>158.28</del> 156.40 | 160.28 |  |
| +70           |       | 808    | 161.33                   | 156.19 |  |
| +35           |       | 598    | 163.43                   | 155.94 |  |
| 0+00-MH#1     |       | 328    | 166.13                   | 155.70 |  |
| TP            | 7.49  | 169.41 | 0.95                     | 161.92 |  |
| TP            | 12.47 | 162.87 | 6.30                     | 150.40 |  |
| TP            | 13.01 | 156.70 | 0.22                     | 143.69 |  |
| TP            | 11.84 | 143.91 | 0.11                     | 132.07 |  |
|               |       |        | 5.04                     | 137.14 |  |
| TP            | 12.12 | 132.18 | 0.67                     | 120.06 |  |
|               | 5.56  | 130.73 |                          | 115.17 |  |



PEARL  
 BN. SW. BR. PEARL HIGH  
 BN. SE. BR. PEARL HIGH



GRADES - Sidewalk 40' from cb

Stations from Diamond St.  
Cass to Dawes.

Cont. p. 59

2+40

2+00

1+60

1+20

1+00

0+80

0+60

0+40

0+06 - EC. 20' cb R

0+00

897 5304

4407

North  
Prop.  
Line

North  
Elev.  
South  
edge  
walk

North  
Edge  
Sidewalk

South  
Prop.  
Line

58

← 9' →

← 9' →

4.38 ✓  
4866

4.98 ✓  
4806

4.92 ✓  
4812

5.53 ✓  
4751

5.46 ✓  
4758

6.08 ✓  
4696

6.00 ✓  
4704

6.63 ✓  
4641

6.54 ✓  
4658

6.14  
4690

7.08 ✓  
4596

45.84  
7.20  
4553  
7.51

7.43 ✓  
4561

45.22  
7.82  
4466  
8.38

4452

4407.81M  
897  
53.04

5304

B.M. OF B.P. CASS & DAWES.



RICHMOND ST.

Sidewalk Grades

Cont. P. 60

T.P. 252 61.12 144 51.60

4+889 = PC 30' Radius at Davies St.

4+60

4+30

3+90

3+50

3+42

3+10

2+80

~~5304~~

N  
Prop.  
Line

S. edge  
Walk

9' >

N. edge  
Walk

South  
Prop.  
Line

59

9' >

1.58 ✓  
5146

1.96 ✓  
5108

2.37 ✓  
5067

2.92 ✓  
5012

3.47 ✓  
4957

Curb Sidewalk  
as Const. → 5037  
2.82  
5032

3.26  
4968  
3.43  
4961

4.02 ✓  
4902

3.84 ✓  
4920

4.43 ✓  
4866

~~5304~~

Diamond St.  
Sidewalk Grades  
from Dances to Exerts.

|                                            | N. Prop. | S. edge Walk                   | N. edge | S. Prop. Line           | Ca. |
|--------------------------------------------|----------|--------------------------------|---------|-------------------------|-----|
| 1+90                                       |          | 4.78<br>5634                   |         | 5.47<br>5565            |     |
| 1+60                                       |          | 5.29<br>5583                   |         | 5.95<br>5517            |     |
| 1+30                                       |          | 5.80<br>5532                   |         | 6.43<br>5469            |     |
| 1+00                                       |          | 6.31<br>5481                   |         | 6.91<br>5421            |     |
| 0+70                                       |          | 6.82<br>5430                   |         | 7.39<br>5373            |     |
| 0+50                                       |          | 7.16<br>5396                   |         | 7.71<br>5341            |     |
| 0+30                                       |          | 7.43<br>5369                   |         | 8.03<br>5309            |     |
| 0+10 = <sup>FC.</sup> <del>60</del> 30 cbr |          | 7.71<br>5341 Walk              |         | 8.35<br>5277 = Walk     |     |
| 0+00 = <u>5</u> line Dances                |          | 8.10<br>5302 = <u>6</u> Return |         | 8.70<br>5250 = <u>6</u> |     |

6112 = from P. 59

6112



DIAMOND ST.

GRADES - Sidewalks

N  
Prop.  
Wall

S. edge  
Walk

N  
edge  
Wall

South  
Prop.  
Wall

61

9'

9'

SE. 7' Copper Disc Diagnostics Dowses

T.P.

865 52.47

4+11.3 = Exist. cb.

1.04  
6008

1.99  
5913

3+90 = Bk

1.38  
5974

2.27  
5885

3+70

1.72  
5940

2.59  
5863

3+40

2.23  
5889

3.07  
5805

3+10

2.74  
5838

3.55  
5757

2+80

3.25  
5787

4.03  
5709

2+50

3.76  
5736

4.51  
5661

2+20

4.27  
5685

4.99  
5613

6112



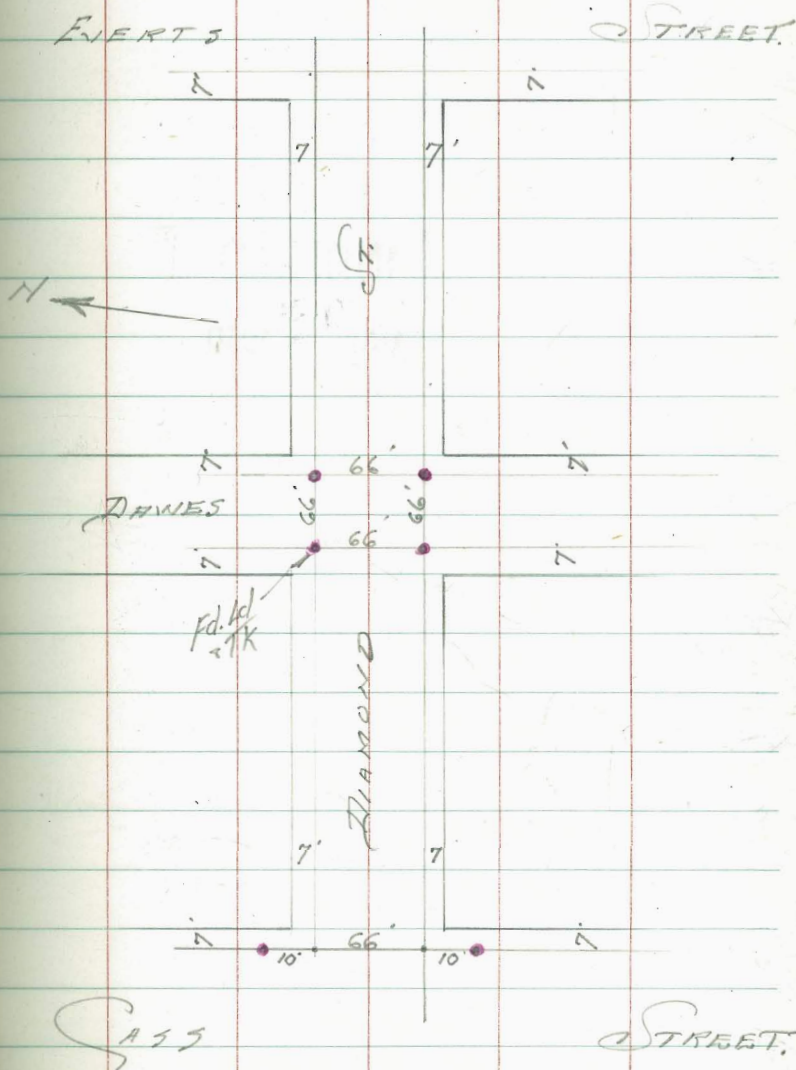
Walker  
F. Gregory  
G. Pope  
R. Vission  
12-2-49

DIAMOND ST.

TICS

Set in Curv. Sidewalk  
• = Copper Disc. Ld & Talk

INDEXED  
TK  
MAY 8 1950



Grades Curb - 3' Bk. Cb.

Diamond St.

Stations from Cass to Dawes

North  
Prop

North  
Curb

2+00

3.72 ✓

48.01

1+60

4.26 ✓

47.47

1+20

4.80 ✓

46.93

INDEXED

MAY 8 1950  
W.K.

~~1+00~~

0+80

5.34 ✓

46.39

~~0+60~~

0+40

5.88 ✓

45.85

0+06

F.C. 20' Cb. Red.

6.23 ✓

45.50

0+00

51.73

766

51.73

44.07

B.M. S.E. BP. Cass & Diamond



Curb Grades  
Diamond St.

64

3+49

1.62' ck.  
50.11 Exist.

3+10

2.16'  
49.57

2+80

2.64'  
49.09

2+40

3.18'  
48.55

DIAMOND ST. - PAVING  
 from Cass to Dances  
 Gutter Grades

1+75

1+50

1+20

1+00

0+80

0+60

0+40

0+06 = E.C. 20' CBK

0+00 = E. line Cass

INDEXED  
 M.K.  
 MAY 8 1950

733 45.70

5303 from P-66

H.

A.

05

46.93  
~~46.86~~  
~~6.17~~

46.59  
~~6.44~~

46.18  
~~6.85~~

45.91  
~~7.12~~

45.64  
~~7.39~~

45.37  
~~7.66~~

45.10  
~~7.93~~

44.83  
~~8.20~~

5303  
 5

E. T. AINE

Set BM 3' N.M.L. - Diamond on Copper Disc.

46.55  
~~46.48~~  
~~6.55~~  
~~6.48~~

46.21  
~~6.82~~

45.80 = Bk  
~~7.23~~

45.52 = Bk  
~~7.51~~

45.21 = Bk  
~~7.82~~

44.89 = Bk  
~~8.14~~

44.54 = Bk  
~~8.49~~

43.93 = Bk  
~~9.10~~



DIAMOND ST. PAVING  
Gutter Grades Cont. from Pgs

Lt.  
Gutter

Rt.  
Gutter.

66

4+00

4963  
3.90-

3+75

4929  
3.74-

3+50

4942  
3.61 ✓ck.

4895  
4.08-

3+25

4900  
4.03-

4861  
4.42-

3+10

4875  
4.28-

3+00

4862  
4.41-

4826  
4.77-

+75

4828  
4.75-

4792  
5.11-

2+50

4794  
5.09-

4758  
5.45-

+25

4760  
5.43-

4724  
5.79-

2+00

4727  
5.76-

4689  
6.14-

8.96 5303

44.07

S.E. BP.  
Coss  
+ Diames  
P-58

5303

RT

67

Gutter

4+88.9 = RC. 30' R on RT

50.85

2.18

+75

50.66

2.37

4+50

50.32

2.71

4+25

49.98

3.05

53.03



Diamond St.  
Gutter Grades  
from Dawes to Exerts

1775

5522  
5.90 ✓

5480  
6.32 ✓

1750

INDEXED  
MAY 8 1950  
NFK

5480  
6.32 ✓

5440  
6.72 ✓

1725

5437  
6.75 ✓

5400  
7.12 ✓

1700

5395  
7.17 ✓

5360  
7.52 ✓

0770

5344  
7.68 ✓

5312  
8.00 ✓

0750

5313  
7.99 ✓

5280  
8.32 ✓

0730

5288  
8.29 ✓

5248  
8.64 ✓

0710

5266  
8.46 ✓

5216  
8.96 ✓

0700

5254  
8.58 rck

5200  
9.12 ✓

8.65

61.12

52.47

SE 297 Daw  
Diamond  
Pg 61

61.12

Diamond St.  
Gutter Grades  
Cont. from p. 68

N  
Gutter

South  
Gutter

69

4+11.2

59.27  
1.85<sup>rk</sup>

58.59  
2.53<sup>rk</sup>

3+90

58.88  
2.24<sup>v</sup>

58.24  
2.88<sup>v</sup>

3+75

58.62  
2.50<sup>v</sup>

58.00  
3.12<sup>v</sup>

3+50

58.20  
2.92<sup>v</sup>

57.60  
3.52<sup>v</sup>

3+25

57.77  
3.35<sup>v</sup>

57.20  
3.92<sup>v</sup>

3+00

57.35  
3.77<sup>v</sup>

56.80  
4.32<sup>v</sup>

2+75

56.92  
4.20<sup>v</sup>

56.40  
4.72<sup>v</sup>

2+50

56.50  
4.62<sup>v</sup>

56.00  
5.12<sup>v</sup>

2+25

56.07  
5.05<sup>v</sup>

55.60  
5.52<sup>v</sup>

2+00

55.65  
5.47<sup>v</sup>

55.20  
5.92<sup>v</sup>



Diamond Street  
Curb Returns Grades  
Cor Cass & Diamond

INDEXED

WK  
MAY 8 1950

S.E. Return

|              |                        |      |       |                             |
|--------------|------------------------|------|-------|-----------------------------|
| 0+31.42      | 45°<br>E.C. on Diamond | 581  | 44.72 | → Curb Const. to this Elev. |
|              |                        |      | 44.55 |                             |
| 0+25.33      | 36° 17'                | 5.96 | 44.51 |                             |
|              |                        | 6.08 | 44.45 |                             |
| 0+15.71      | 22° 30'                | 6.21 | 44.32 |                             |
|              |                        | 6.24 | 44.29 |                             |
| 0+07.85      | 11° 15'                | 6.42 | 44.11 |                             |
| 0+00         |                        | 6.39 | 44.14 |                             |
| B.C. on Cass | 50.53                  | 6.54 | 43.99 |                             |

N.E. Return

Def. A

|              |             |       |       |
|--------------|-------------|-------|-------|
| 0+31.42      | 45°<br>E.C. |       | 45.50 |
| 0+25.33      | 36° 17'     | 5.08  | 45.45 |
| 0+15.71      | 22° 30'     | 5.13  | 45.40 |
| 0+07.85      | 11° 15'     | 5.07  | 45.46 |
| 0+00         |             |       |       |
| B.C. on Cass | 50.1        | 45.52 | 45.52 |

4.83

50.53

45.70

B.M. Cop. Disc. & Diamond P-65  
9E Cass

PAVING GRADES - ALLEY BLK. 4

Walker

F. Gray

G. Pope 1-6-50

R. Johnson

Ocean Beach

Between Santa Monica & Newport

from Frode to Guizot St.

NO. 31700

Stations

Plan 7633-L

INDEXED  
M.K.  
MAY 8 1950

0+80 = Bk

1.5' Back 111.13  
8.26  
7.06  
C 1.20

West Prop. Line 111.13  
8.26  
8.52  
C 0.24

0.60' Back Nail

0+60 = Bk

2' Back 108.51  
10.88  
12.13  
C 0.75

108.51 0.62' Back  
10.88  
10.29  
C 0.59

0+40 = Bk

2.7' Back 105.66  
13.73  
12.11  
C 1.62

105.66 2' Back  
13.73  
14.17  
F 0.44

T.P. 12.93 119.39 0.57 106.46

119.39

0+20 = Bk

1.9' Back 102.69  
4.34

102.69 4.69' Back  
4.34  
2.49  
C 1.85

0+00 = Line Frode

99.50  
7.53

99.81  
7.22  
7.22

2.72 107.03

104.31

B.M. B.P. SW. Frode & Newport



Alley Block 4 - Cont. from p. 71

Cont. on p. 73

2+60-Brk

0.5 Back  
on Wall 129.67  
12.86  
10.47  
C 2.39

142.53

129.67 2' Back  
12.86  
12.81  
C 0.05

TP 12.44 142.53 117 130.69

2+40-Brk.

2' Back 127.75  
3.51  
2.89  
C 0.67

127.75 2' Back  
3.51  
3.10  
C 0.41

2+20-PVC

2' Back 125.76  
5.50  
4.76  
C 0.74

125.76 2' Back  
5.50  
4.40  
C 1.10

1+86

2' Back 122.32  
8.94  
8.95  
C 0.01

122.32 2' Back  
8.94  
9.15  
F 0.21  
F 0.39 = Reset

1+53

10.12 of

2' Back 118.98  
12.28  
11.73  
C 0.55

131.26

118.98 2' Back  
12.28  
11.75  
C 0.53

TP 12.45 131.26 0.58 118.81

1+20-PVC

2' Back 115.64  
3.75  
3.71  
C 0.04  
C 0.38 = Reset

115.64 2' Back  
3.75  
3.55  
C 0.20

1+00-Brk

119.39

2' Back 113.50  
5.89  
4.91  
C 0.98

119.39

113.50 2' Back  
5.89  
6.00  
F 0.11

Alley Block - 4 - Cont. from p. 72  
 Cont. on p. 74

4 + 40 = Bk

2' Back

145.30  
 7.83  
 826  
 F 0.43

145.30  
 7.83  
 643  
 C 1.40

007  
 in Alley  
 Nail

4 + 20 = Bk

2' Back

143.77  
 9.36  
 931  
 C 0.05

143.77  
 9.36  
 827  
 C 0.39

1' Back

4 + 00 = PVC

TR 11.24 153.13 0.64 141.89

FP

3 + 66

8.78%

3 + 33

3 + 00 = F.V.C

2 + 80 Bk

142.53

East  
 Line

West  
 Line

73

22' Back  
 Nail

136.21  
 6.32  
 427  
 C 1.95

136.21  
 6.32  
 711  
 F 0.79

2' Back

2' Back

133.31  
 9.22  
 8.24  
 C 0.28

133.31  
 9.22  
 983  
 F 0.61

2' Back

2' Back

131.53  
 11.00  
 1010  
 C 0.90

131.53  
 11.00  
 1104  
 F 0.07  
 F 0.14 - Reset

2' Back

142.53



Alley Block-4 Cont. from 73

East  
Line

West  
Line

74

5+99, 07. 116. Guigot

154.57  
4.79  
4.81  
F 0.02

155.34  
4.02  
4.06  
F 0.04

5+80 = Bk

2' Back 153.70  
5.66  
6.75  
F 1.09

153.70 2' Back  
5.66  
5.75  
F 0.09

5+46

2' Back 151.74  
7.62  
8.26  
F 0.64

151.74 2' Back  
7.62  
7.29  
C 0.33

T.P. 8.26 159.36 2.03 151.10

159.36

5+13

2' Back 149.84  
3.29  
2.86  
C 0.43

149.84 1' Back  
3.29  
3.07  
C 0.22

4+80 = E.V.C

2' Back 147.93  
5.20  
4.27  
C 0.93

147.93 5' Back  
5.20  
4.82  
C 0.38

4+60 =

153.13

2' Back 146.69  
6.44  
5.43  
C 1.01

146.69 2' Back  
6.44  
5.79  
C 0.65

153.13

Walker  
Gregory  
Pope  
1st Session  
1-16-56

Alley Block 4 - Ocean Beach

Grades - Sewer laterals

110 31700

3+60 = 2' Lot #1 3.56 138.96 133.52

c 5.40 2' Back on R Lot.

CHK 3+66 on RT P-73 4.26 138.76

3.14 142.52 139.38

B.M. on Stake 3+66 on R. P-73

3+10 = 2' Lot #2 4.27 133.78 129.19

c 4.59 2' Back on E of Lot.

CHK 2+80 5.62 132.43

5.35 138.05 132.70

B.M. on Stake 3+00 on RT 73

2+10 = 2' Lot #3 3.48 125.94 119.78

c 6.16 2' Back on E of Lot.

CHK 1+86 2' Back P-72 6.60 122.82

2.56 129.42 126.86

B.M. on Stake 2+20 on RT P-72

0+60 on Lt. #4 5.49 109.26 103.81

c 5.45 2' Back on E of Lot

0+<sup>40</sup>55 on Rt. #5 9.84 104.91 100.95

c 3.96 3' West of Lot.

7.47 114.75 107.28

on Lt  
B.M. on Station 0+40 = West P-71



Walker  
Hurdin  
Hufsch  
Shepherd  
8-15-50

Chelsea St. & Camino De La Costa

Curb Returns

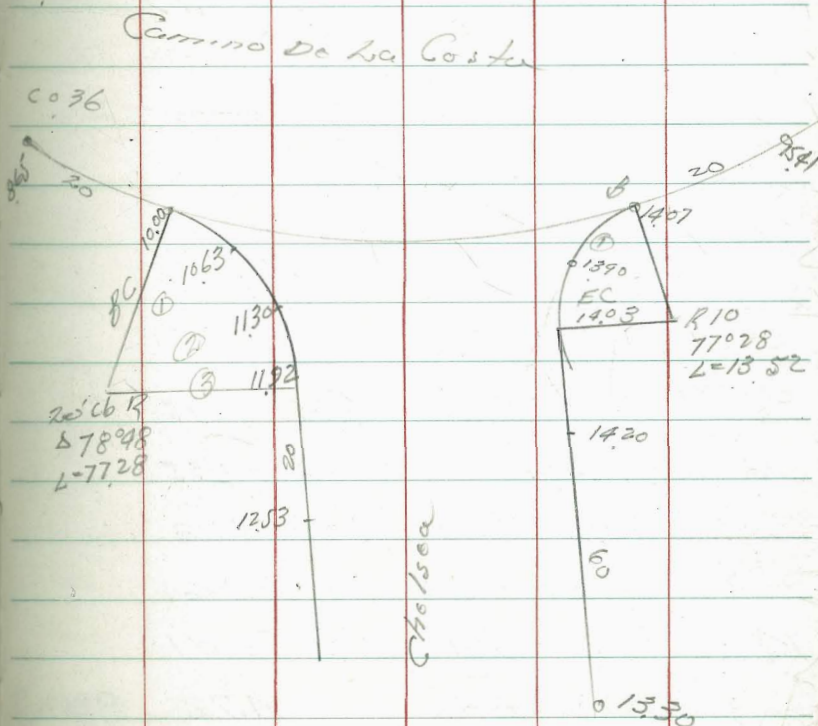
Elev. Assumed 1090 B.C. on lot

SWLY Ret

|          |       |       |      |
|----------|-------|-------|------|
| B.C.     |       | 10.00 |      |
| ①        | 10.64 | 10.63 |      |
| ②        | 11.19 | 11.30 | F011 |
| ③ = B.C. | 11.36 | 11.22 | F056 |

Stakey Return

|                 |       |       |
|-----------------|-------|-------|
| B.C.            |       | 14.07 |
| ① = 1/2         | 14.26 | 13.90 |
| B.C. on Chelsea | 14.73 | 14.03 |



Walker  
F. Gregory  
G. Pope  
K. Sisson  
2-17-50

Elevation on Existing Sewer  
San Diego Ave & Riley St  
Plot 7879-L  
NO 62172

77

INDEXED

MAY 8 1950

chk invert MH#2 799 - 0.79

chk MH#1 invert 835 - 1.15

on invert

chk Existing Sewer 855 - 1.35

T.P. 3.12 7.20 4.00 4.08

T.P. 5.12 8.08 6.98 2.96

T.P. 3.87 9.94 2.35 6.07

370 842 4.72 B.M. S.E.B.P. Juan St & Taylor St

MH#2

16485

Riley

25' MH#1

San Diego Ave



GRADES - CULVERT EXTENSION

III ADAMLET ST.

Near Torrey Pines Road

Walker Plan # 4033-B 410 20625

Hurdin  
Hatch  
Strophard

24" Conc. Pipe

Aug. 15 1950

File  
Invert

|                           |                    | File | Invert | Cuts  | offsets                  |
|---------------------------|--------------------|------|--------|-------|--------------------------|
| 1+56 = End<br>T.P.        |                    | 8876 | 84.80  | 3.96  | 10' Ahead<br>on R.       |
| 1+38.48 = Δ R. 6° 20' 20" | 84.25              | 8817 | 84.00  | 4.17  | 2' R. on Pipe<br>ADAMLET |
| 1+05                      |                    | 8358 | 81.18  | 2.40  | 15' Lt.                  |
| 0+70                      |                    | 8130 | 78.22  | 3.08  | 10' Rt.                  |
| 0+64 ±                    | cb inlet = cb face |      |        |       |                          |
| 0+25                      |                    | 8316 | 75.26  | 7.90  | 10' Rt.                  |
| 0+00                      |                    | 8453 | 72.30  | 12.23 | 16' Rt.                  |

86.02 B.M.

in Gm. N.E. of Pump House  
FB 1786-66

INDEXED

MAY 28 1951

orig. Survey  
372329  
372107

26' 1950  
This Portion  
by St. Dept.  
No Record.

1456  
End

0+48  
2+42

Exist.  
18" Conc.  
Pipe

262  
198.48

24" Conc. Pipe

cb face  
0+64 ±

1784  
orig. Survey

68

End of work

1700  
orig. Survey

Charlotte  
54

TORREY PINES

ROAD

6400 construction  
Pump House

Grades for Extension Culvert

Arncliffe St.

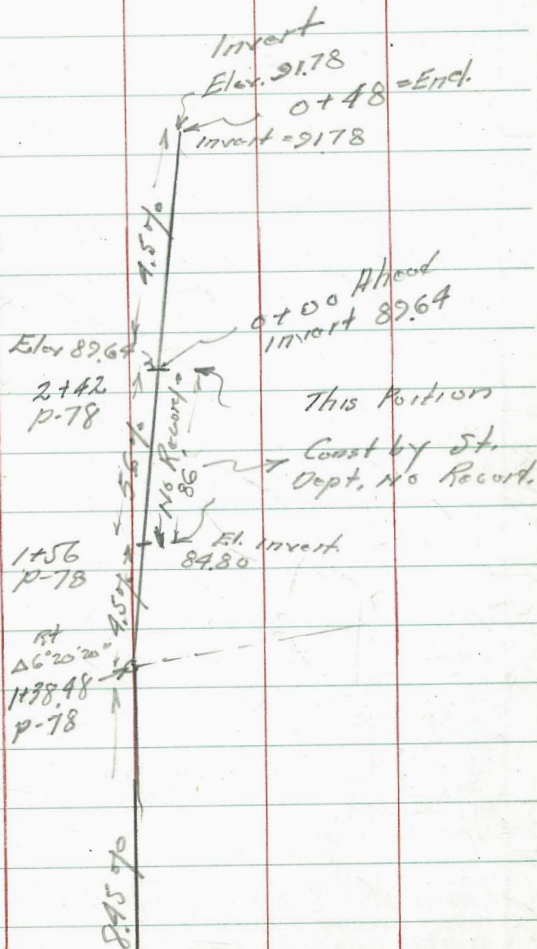
Walker  
Pope  
Hoffman  
Kellio  
10-3-51

No. 20625

|                                           |       | Elev. Stakes | Elev. Invert | Cuts  | Offsets |
|-------------------------------------------|-------|--------------|--------------|-------|---------|
| 0+48                                      | 3.32  | 102.22       | 91.78        | 10.44 | 7' Lt.  |
| 0+24                                      | 2.48  | 96.06        | 90.72        | 5.34  | 7' Lt.  |
| Invert on<br>0+00 = End Existing 24" Pipe | 15.90 |              | 89.64        |       |         |
| T.P.                                      | 2.01  | 105.54       | 3.75         | 96.53 |         |
| T.P.                                      | 8.50  | 100.28       | 0.85         | 91.78 |         |
| on insert box                             |       | 15.50        |              | 77.13 |         |
| on<br>Grating cb inlet                    |       | 10.15        |              |       |         |
| 661                                       | 92.63 |              | 86.02        |       |         |

INDEXED

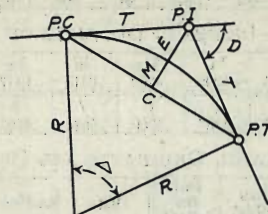
1010  
OCT 11 1951





# DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

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### CURVE FORMULAS

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

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

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

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

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

### EXPLANATION AND USE OF TABLES

**Stations.**—Given P. I.—Sta. 161+60.35 to find Sta. of P. C. and P. T.  $\Delta=62^\circ 10'$   $D=8^\circ 20'$ . From Table IV for  $1^\circ$  curve  $T=3454.1$  and  $\div 8\frac{1}{3}=414.49$  ft. From Table V correction=.36 or  $T=414.85$  ft. P. C.—Sta. P. I.— $T=157 + 45.50$ . Also from (4)  $L=746.00$  and P. T.—Sta. P. C. +  $L=164 + 91.50$ .

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

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

**Externals.**—May be found in similar manner to tangents. Thus  $E$  for curve above is 115.37. For from Table IV for  $1^\circ$  curve  $E=960.6$  for  $8^\circ 20' = 960.6 \div 8\frac{1}{3} = 115.27$  and from Table V correction=.10 or  $E=115.37$  ft. Or suppose  $\Delta=32^\circ$  and  $E$  is measured and found to be 42 ft. What is  $D$ ? From Table IV  $E=230.9$  and  $\div 42 = 5.5$  or  $D=5^\circ 30'$ .



$\begin{array}{r} 270 \\ 1506 \\ \hline 1736 \end{array}$

18500

53

33345 W 4.06

33324 Pav. on W

33328 " " E

33337 E 06

$\begin{array}{r} 2125 \\ 1755 \\ \hline 3880 \end{array}$

$\begin{array}{r} 3639 \\ 547 \\ \hline 4186 \end{array}$

$\begin{array}{r} 732 \\ 516 \\ \hline 2116 \end{array}$

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1 1/2  
For Single Track Embankment.

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

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