

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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CITY ENGINEER'S OFFICE

MICROFILMED

APR 13 1965

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Made in U. S. A.

THE ENGINEER'S OFFICE

NOV 21 1904
RECORDED

30th + EL Cajon
Storm drain Const

W.O. # C

370.61 →
4.88
375.49 ×

FL

0 + 00 C.O. #1 366.00
9.49
6.08
C 3.41

INDEXED
WK
NOV 16 1948

0 + 50 365.80
9.69
5.59
C 4.10

1 365.60
9.89
5.20
C 4.69

+ 56.1 cb inlet #1 365.40
10.09
5.10
C 4.99

1 + 80 ST. 365.28
10.21
4.67
C 5.54

2 365.20
10.29
5.19
C 5.11

2 + 183 C.O. #2 365.13
10.36
5.03
C 5.39

+ 50 365.00
10.49
4.95
C 5.54

3 + 00 364.80
10.69
4.81
C 5.88

C. Moore
Sargent Meyer
Boyer
Allen
7-9-46

2

BM. S.E. 7' CT. Monroe + Utah

Ex. cb inlet 366.50 = FL, new Box
8.99
5.83
C 3.16

SW cb inlet #1 366.05
9.44
4.70
C 4.68

SE cb inlet #2 365.43
10.00
4.90
C 5.10

F.L.

375.49 T

3

3 + 51.42 B.C. C.B. #2

$$\begin{array}{r} 364.60 \\ 10.89 \\ \hline 41.73 \\ \hline 36.12 \end{array}$$

+ 11.12 C.B. Cu.

$$\begin{array}{r} 364.54 \\ 10.97 \\ \hline 4.99 \\ \hline 35.98 \end{array}$$

3 + 86.81 F.C. C.O. #3

$$\begin{array}{r} 364.45 \\ 11.04 \\ \hline 4.50 \\ \hline 36.54 \end{array}$$

$$\begin{array}{r} 364.45 \\ 11.00 \\ \hline 3.85 \\ \hline 37.15 \end{array}$$

4

$$\begin{array}{r} 364.40 \\ 11.05 \\ \hline 4.49 \\ \hline 36.56 \end{array}$$

+ 25

$$\begin{array}{r} 364.30 \\ 11.15 \\ \hline 4.66 \\ \hline 36.49 \end{array}$$

+ 50

$$\begin{array}{r} 364.20 \\ 11.25 \\ \hline 5.70 \\ \hline 35.55 \end{array}$$

+ 75

$$\begin{array}{r} 364.10 \\ 11.35 \\ \hline 6.00 \\ \hline 35.35 \end{array}$$

5

$$\begin{array}{r} 364.00 \\ 11.45 \\ \hline 6.80 \\ \hline 34.63 \end{array}$$

+ 25

$$\begin{array}{r} 363.90 \\ 11.55 \\ \hline 7.01 \\ \hline 34.54 \end{array}$$

+ 50

$$\begin{array}{r} 363.80 \\ 8.77 \\ \hline 3.27 \\ \hline 35.10 \end{array}$$

+ 75

$$\begin{array}{r} 363.70 \\ 8.87 \\ \hline 5.05 \\ \hline 33.83 \end{array}$$

6

$$\begin{array}{r} 363.60 \\ 8.97 \\ \hline 4.56 \\ \hline 34.41 \end{array}$$

+ 25

$$\begin{array}{r} 363.50 \\ 9.07 \\ \hline 4.97 \\ \hline 34.10 \end{array}$$

+ 50

$$\begin{array}{r} 363.40 \\ 9.17 \\ \hline 4.20 \\ \hline 34.47 \end{array}$$

+ 75

$$\begin{array}{r} 363.30 \\ 9.27 \\ \hline 4.36 \\ \hline 35.01 \end{array}$$

$$\begin{array}{r} 4.50 \\ 370.97 = 370.97 \end{array}$$
 Pay. SL Monroe

Top =
$$\begin{array}{r} 370.90 \\ 4.59 \\ \hline 4.59 \\ \hline 3.85 \\ \hline 370.90 \end{array}$$
 clean top out

$$\begin{array}{r} 372.57 \\ 3.67 \\ \hline 368.90 \\ 6.55 \\ \hline 375.45 = H.L. \end{array}$$
 H.L. from p. 4 T.P.

F.L.

C+95	C.B. #1	363.22	9.35 4.37
7+25		363.10	C 5.08
		9.27 5.38	
7+50		C 4.09	363.0
		9.57 5.35	
+75		362.90	C 4.22
		9.67 4.64	
8		C 5.03	362.80
		9.77 4.70	
+25		362.70	C 5.07
		9.87 4.78	
+50		C 5.09	362.60
		9.97 4.78	
+75		362.50	C 5.19
		10.07 4.76	
9		C 5.31	362.40
		10.17 4.69	
+25		362.30	C 5.48
		10.27 4.64	
+50		C 5.63	362.20
		10.37 4.57	
+75		362.10	C 5.80
		10.47 4.42	
10+00.06	B.C.C.T	C 6.05	362.00
		10.60 5.62	
			C 5.04

10+05.2 C.O. #4
Juni. Box 361.98

10.68
5.55
C 5.13

Tied ELY
25' x 50'
WITH NAILS

4

TOP GRATE 367.80
4.77
4.77
C 0.50 TOP GRATE

CUTS BACKED IN
7-25-46

366.78 = S.E.B.P. Meade + Kansas
5.88
372.66 = X
5.22
367.44
5.13
372.57 X ✓

F.L.

10 + 23.65

$$\begin{array}{r} 361.85 \\ 10.81 \\ \underline{5.28} \\ 355.53 \end{array}$$

+ 117.24

$$\begin{array}{r} 361.69 \\ 10.97 \\ \underline{5.41} \\ 355.56 \end{array}$$

10 + 70.85 E.C.

$$\begin{array}{r} 361.52 \\ 11.14 \\ \underline{5.28} \\ 358.00 \end{array}$$

11

$$\begin{array}{r} 361.32 \\ 11.34 \\ \underline{5.55} \\ 357.79 \end{array}$$

+ 50

$$\begin{array}{r} 360.96 \\ 11.70 \\ \underline{5.79} \\ 359.1 \end{array}$$

12

$$\begin{array}{r} 360.61 \\ 12.05 \\ \underline{6.37} \\ 356.8 \end{array}$$

12 + 47.7 C.O. #6

$$\begin{array}{r} 360.28 \text{ - SEB.P. } 30^{th} \text{ +} \\ 10.70 \text{ Meads} \\ \underline{4.26} \\ 365.72 \\ 5.26 \\ \underline{370.98 X} \end{array}$$

Rate = 100000 per foot

$$\begin{array}{r} 36.44 V \end{array}$$

13

$$\begin{array}{r} 360.07 \\ 10.91 \\ \underline{4.95} \\ 359.6 V \end{array}$$

+ 50

$$\begin{array}{r} 359.87 \\ 11.11 \\ \underline{4.53} \\ 365.8 V \end{array}$$

372.66 X front p 4.

5

366.78 SEBP Meads + Kan.

$$\begin{array}{r} 366.78 \\ 5.00 \\ \underline{372.40} \end{array}$$

cb. 1x6. #5

$$\begin{array}{r} 361.73 \\ 10.67 \\ \underline{5.38} \\ 372.29 \end{array}$$

the

$$\begin{array}{r} 361.00 \\ 11.40 \\ \underline{5.60} \\ 372.80 \end{array}$$

cb. 1x6. #6

$$\begin{array}{r} 361.77 \\ 10.63 \\ \underline{5.00} \\ 372.21 \end{array}$$

F.L.

6

14
359.66
 11.32
 5.33
 C 5.99 ✓

+ 50
359.46
 11.32
 5.36
 C 6.16 ✓

15
359.26
 11.72
 5.04
 C 6.68 ✓

+ 50
359.05
 11.93
 5.21
 C 6.72

15 + 65.59 BCRT C.O. #9
 17.69 390.79
358.99
 11.80
 5.71
 C 6.09

Set Gr. 7-16-46
 S.E.B.A 30th + Meade
 F.O. 1675-95
 365.72
 5.07

+ 83.28
359.91
 11.88
 5.04
 C 6.84

370.77
 5.07
 365.72
 or

16 + 00.98
358.84
 11.95
 5.12
 C 6.85

+ 18.67
359.77
 12.02
 5.38
 C 6.64

16 + 36.37 EC. C.O. #7
 .00168 per foot
358.70
 12.09
 4.97
 C 7.12

T
370.79 1/2
 N.E. Cor Inlet #12 359.61 359.00
 11.18 11.35
 4.41 2.59
 C 6.77 C 6.76
 N.W. " " #11 359.28
 11.57
 4.51
 C 7.00
 1/2 to Junc.
359.14
 11.65
 5.29
 C 6.36

C6. Inlet #7 360.61
 S.W. 90th + Meade
 10.18
 4.97
 C 5.21

TOP C.O. #9 9-V-46
 SEBP 5.05 370.77 365.72 30th Meade

15 + 65.59 BCRT. 5.68 365.09 EL. Pav. Top C.O. #9
 LIX
 F.O. 46 to Top of C.O. #9

C6. Inlet #8 359.57
 Near S.E. 30th + Meade
 11.22
 4.97
 C 6.25

F.L.

7

x

16 + 50

370.79

358.68
12.11
5.24
C 6.87

17

358.60
12.19
5.39
C 6.80

+ 50

358.51
12.28
5.38
C 6.90

18

369.61

359.43
11.78
4.34
C 6.84

+ 50

358.34
11.27
4.85
C 6.39

370.79
5.49

19

358.26
11.35
4.57
C 6.78

365.30
4.31
369.61 x

+ 50

358.18
11.43
4.61
C 6.82

20

358.09
11.52
4.73
C 6.79

369.61
4.75
364.86
5.49

+ 50

x
370.35

358.01
12.34
5.58
C 6.76

370.35 x

F.L.

21	370.35	359.92	370.35
		12.43	6.07
		6.16	
		C 6.27	364.28

364.27 = B.P. - NE Cor El Cajon + 30th
 + 0.01

21 + 50	357.84
	12.51
	5.92
	C 6.59

Check to
 B.P. - NE Cor El Cajon + 30th

21 + 75.73 B.C.L.T.	CO. #8	357.79	364.27 =
		11.66	B.M.B.P. NE Cor 30th + EL Cajon
		5.32	5.18
		C 6.34	369.45

B.M.B.P. NE Cor 30th + EL Cajon

8-9-116

Grade of old Pav. at Cleanout #8
 at B.C.L.T. 21+75.73

+ 93.42	357.76
	11.69
	5.03
	C 6.66

22 + 11.11	357.73
	11.72
	4.78
	C 6.94

369.45 = H.I.
 5.32

22 + 28.0	357.70
	11.75
	4.74
	C 7.01

364.13 = EL. of Cut Mark
 364.00 = EL. " @ ON Pav.

C 0.13 to E Top C.O.

22 + 45.98 E.C.	357.67
	11.78
	4.75
	C 7.03

364.00
357.79

6.21

23	357.58
	11.87
	4.91
	C 6.93

+ 50	357.49
	11.96
	4.94
	C 7.02

F.L.

369.45 x

5.46

363.99

4.83

368.82 x

24 + 00

357.41

12.04

5.01

37.03

7.91

+ 50

357.32

11.56

4.08

37.42

25

357.24

11.58

4.70

36.88

25 + 09.41 B.C.L.T.

357.22

11.60

4.70

36.90

25 + 22.5 Cr. Cu.

357.20

11.62

4.75

36.87

25 + 35.59 E.C.

357.18

11.64

5.00

36.84

25 + 57.62

357.15

11.67

5.10

36.57

25 + 67.7 B.C.P.T.

357.12

11.70

4.79

36.91

25 + 77.02 Cr. Cu.

25 + 86.35 END

357.09

11.73

4.81

36.92

Vtah and Meade
Storrs drain

0100 = Clearcut #5 Tunc Box 18'45"N
RP 9290

INDEXED

WK

NOV 16 1948

+50

(NE Cor curb inlet) 363.01

9.39

4.23

C 5.16

+50

1458.2 = Clearcut #4

SW Cor curb inlet

363.52

8.87

3.75

C 5.12

NW Cor curb inlet

363.41

8.99

3.82

C 5.17

SE Cor curb inlet

362.82

9.58

4.16

C 5.42

H.I. P.4
372.26

F.L.

10

362.61

10.05

4.47

C 5.58

= on 18' RP. to N.

362.41

10.25

4.87

C 5.38

362.21

10.45

5.04

C 5.41

362.01

10.65

5.63

C 5.02

361.98

372.10 H.I.

Midway to SE Cor inlet 363.17

9.23

4.48

C 4.75

Midway 363.01

9.39

4.41

C 4.98

Midway to Clearcut #5 = 362.71

9.49

4.25

C 5.24

8-9-46

Cb. grades on inlets

SEBP
30th + Meade 5.35 371.07 365.72

NE Cor. 30th + Meade 366.21
4.86
4.68
C 0.18

NW Cor. " " 366.11
4.96
4.74
C 0.22

SW " " " 365.01
5.46
5.20
C 0.20

11

SEBP
Meade 5.23 377.01 366.78
Kansas

NE Cor #5
Meade + Kansas 366.80 366.73 = .07 Low
5.21
5.28
4.98
C 0.23

SE Cor #6
Meade + Kansas 366.77
5.24
5.01
C 0.23

Utah + Meade
66 grades in 10 lots

Fwd. P11
372.01

T.P. 5.38 373.01 4.38 367.63

NE Cap Utah + Meade 368.01
5.00
4.81
C 0.19

NW " " " 368.48 ~~368.41~~ = Low
4.53
4.40
C 0.13

SW " " " 368.53
4.40
4.37
C 0.16

SE " " " 368.18 ~~368.12~~ = Low
4.83
4.75
C 0.08

Sewer Const.
 Alley BLK 5 Sun Harbor Tr.

B.T. & Mon.
 Hilltop
 451st

1018 163.17 152.99

0 + 00

INDEXED
 WK
 NOV 16 1948

147.05 153.34
 16.11
 9.88
 C 6.70

0 + 35

149.30 150.47
 13.87
 6.70
 C 7.17

0 + 70 Δ 45°R

151.54 160.13
 11.63
 3.08
 C 8.59

1 + 11 Δ 45°R

152.16 157.72 161.84
 C 9.68
 10.45
 1.33
 C 9.12

1 + 40.15

152.60 153.56 158.81
 C 6.21
 9.61
 4.36
 C 5.25

1 + 69.3

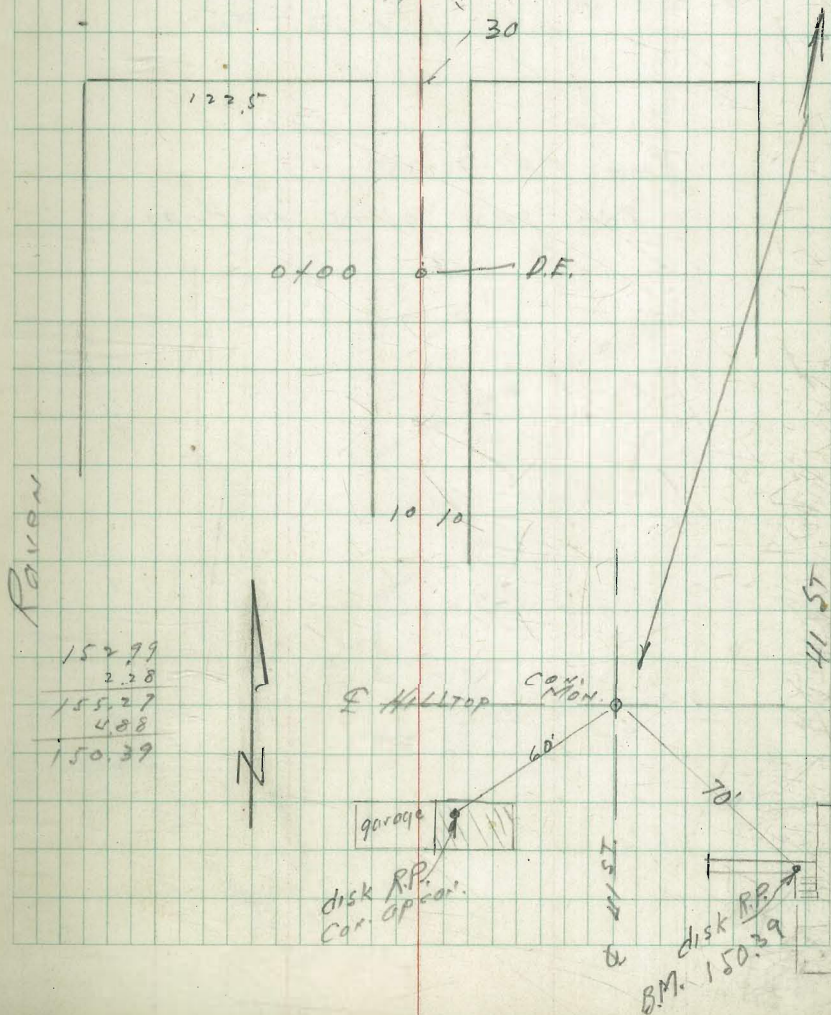
153.04 154.40
 C 3.56
 8.77 156.60
 6.57
 C 2.20

W.O. 162

13

Moore
 Son
 W.F.M. 9-18-48
 E.B.

Hilltop



Paving Levels
 on E. Side 30th St.
 Meade to Elk Cagon

C. S. K.
 S. Meade
 W. D.
 E. B.

9-24-46

W. D. #6

See FB. 1675
 for pav. elev. on drain

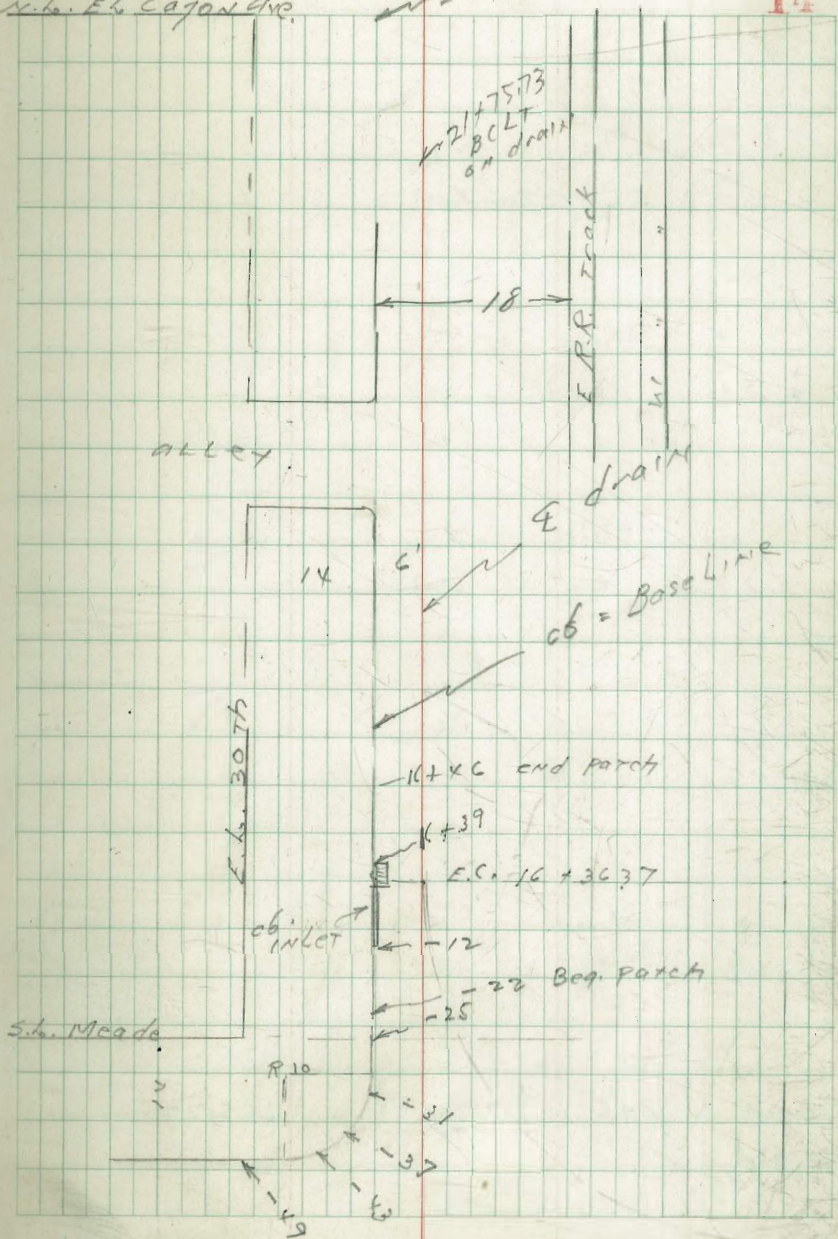


Indexed
 C.S.K.

N. to Elk Cagon Ave.

22 + 11

14



- 25 - S.L. Meade

- 31

- 37

- 43

- 49

SEBP 4.96 370.60 365.72
30th +
Meade

B.L.
cub

R_T = W. 15

365.67
5.01

365.04
5.62
97

365.17
5.51
C

365.64
5.00

365.03
5.65
97

365.56
5.72

365.10
5.58
97

365.66
5.02

365.17
5.51
97

365.77
4.91

365.24
5.44
97

370.68

16 + 50

16 + 46 end pav. patch

16 + 39.1 Sand cb inlet

16 + 36.37 = drain E.C.

- 17 N. end cb inlet

- 22 Beg. Pav. patch

370.68

365.53

5.15

364.91

5.77

97

365.16

5.52

C

365.53

5.15

18

365.55

5.13

364.93

5.75

97

365.16

5.52

C

365.55

5.13

18

365.57

5.11

364.72

5.92

97

grate

365.04

5.02

C

365.59

5.09

18

365.58

5.10

364.61

5.07

97

grate

365.03

5.05

C

365.60

5.08

18

E. Rail

365.66

5.02

364.69

5.99

97

365.02

5.00

C

365.61

5.07

E. Rail

E. Track

18'

365.69

4.99

365.02

5.00

97

365.18

5.50

C

370.68

+ 52,5 end pay patch

+ 49 Beg. pay patch

+ 32 end pay patch

+ 28 Beg. pay patch

17

16 + 75

370.58

B.L.
curr

Pt.

17

365.39

364.69

364.76

365.30

529

5.99
97

5.72
C

5.38
18

365.40

364.69

364.93

365.30

528

5.99
97

5.75
C

5.38
18

365.31

364.77

364.96

365.34

537

5.97
97

5.72
C

5.34
18

365.31

364.71

364.97

365.34

537

5.97
97

5.76
C

5.34
18

365.38

364.76

365.01

365.41

530

5.92
97

5.67
C

5.27
18

365.43

364.82

365.08

365.48

525

5.86
97

5.60
C

5.20
18

E rail
E 70

370.68

18+43

18+25

18+10

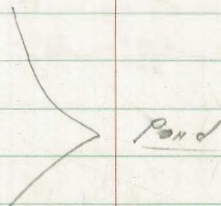
18+00

17+87

beg. par patch

17+75

370.68



B.L.
carb.

R₁

18

365.18

364.99

364.94

365.21

5.50

5.89
87.

5.74
6

5.47
18

365.17

364.71

364.89

365.19

5.51

5.97
87.

5.77
6

5.47
18

365.21

364.66

364.80

365.18

5.47

6.22
87.

5.88
6

5.50
18

365.26

364.66

364.81

365.20

5.42

6.02
97

5.87
6

5.48
18

365.27

364.69

364.91

365.21

5.41

5.99
97

5.77
6

5.47
18

365.31

364.65

364.93

365.25

5.37

6.03
97

5.75
6

5.43
18

F. RAIL
E. T. T.

370.68

125

19404 Beg. pay patch

18493 end pay patch

18475

18460

18450

370.68

Baseline
= Curb.

RT

19

364.96

364.45

364.65

365.06

5.72

5.23
97

5.03
0

5.02
18

365.04

364.48

364.68

365.10

5.64

5.20
97

5.00
0

5.58
18

365.04

364.47

364.63

365.12

5.64

5.21
97

5.05
0

5.50
18

365.10

364.54

364.74

365.16

5.58

5.14
97

5.96
0

5.52
18

365.14

364.72

364.86

365.18

5.54

5.96
00

5.82
0

5.50
18

365.14

364.64

364.91

365.22

5.54

5.94
00

5.77
0

5.48
18

E Pail
E Tn.

370.68

19+92 end pay patch

+75

+50 Beg. pay patch

+43 End pay patch

+40

19+35

T.P.	518	<u>370.18</u>	568	365.00
		370.18		

B.L.
Curb

P.T.

20

364.88	364.79	364.52	365.06
5.30	<u>5.89</u>	<u>5.66</u>	<u>5.12</u>
	97	6	18

364.92	364.40	364.64	365.10
5.26	<u>5.78</u>	<u>5.54</u>	<u>5.08</u>
	97	6	18

364.95	364.39	364.64	365.11
5.20	<u>5.79</u>	<u>5.54</u>	<u>5.07</u>
	97	6	18

364.92	364.40	364.67	365.09
5.26	<u>5.78</u>	<u>5.51</u>	<u>5.09</u>
	97	6	18

364.93	364.41	364.64	365.08
5.25	<u>5.77</u>	<u>5.54</u>	<u>5.10</u>
	97	6	18

364.90	364.38	364.64	365.06
5.28	<u>5.80</u>	<u>5.54</u>	<u>5.12</u>
	97	6	18

370.18

E.P.C.
E.T.C.

755 E. 10' gully

20 + 55 Beg. pay patch

NE.BP					
T.P. BM.	486	<u>369.12</u>	5.92	364.20	<u>364.27</u>
30th and					0.01
EL. Canyon					

20 + 25

20 + 14 end pay patch

20 + 03.5 Beg. pay patch

370.18

364.16	364.34	364.81
4.96	4.78	4.31
97	0	18

364.72	364.14	364.44	364.85
4.40	4.98	4.70	4.27
97	0	18	

369.12

364.80	364.21	364.14	364.95
5.38	5.97	5.44	5.23
97	0	18	

364.80	364.21	364.49	364.97
5.38	5.97	5.69	5.21
97	0	18	

364.83	364.28	364.54	365.03
5.35	5.90	5.00	5.15
97	0	18	

370.18

BL.
CURB

RT

22

+14

+50

+38

+25

21+00.

20+75

369.12
—

363.92	364.03	364.46
520	509	4.00
97	2	18
in drive		

364.38	363.95	364.10	364.52
474	517	502	4.00
	97	0	18

364.06	364.15	364.57
500	4.97	4.55
97	0	18
in drive		

364.11	364.26	364.62
501	4.80	4.50
97	0	18
in drive		

364.25	364.34	364.72
4.87	4.78	4.40
in 97	0	18
drive		

364.69	364.15	364.30	364.78
443	4.97	4.80	4.34
	97	0	18

369.12
—

EMPT
E 70

Bl.
curb

Rt.

23

22 + 11 = N 4 EL CAJON AVE

22 + 05 end pav. patch

21 + 75.73 = B.C. LT on drain

369.12

364.70

4.93

363.63

5.49
97

363.77

5.35
6

364.00

5.12
18

363.69

5.23
97

in drive

363.80

5.32
6

off pav.

364.09

5.03
18

363.87

5.25
97

in drive

364.03

5.09
6

Top

364.41

4.71
18

raib

369.12

TOP
CLEANOUT

K.O. # 180

CULVERT CONST.

AT 49TH + H ST. 2612 L

B.M.
N.E. TOP
F.H.

2.34 21001

208.29 49th A

0+00

200.92

9.69
6.44

T.P.

11.83 215.20 6.44 204.17

3.25

0+16 A 5°20' RT

201.40

13.80

10.30

C 3.50

INDEXED
WK

0+50

NOV 16 1948

202.40

12.80

9.20

C 3.60

1+00 + Drop inlet

203.89

11.31

7.50

C 3.81

1+50

205.37

9.83

6.75

C 3.08

2+00

206.86

8.34

4.37

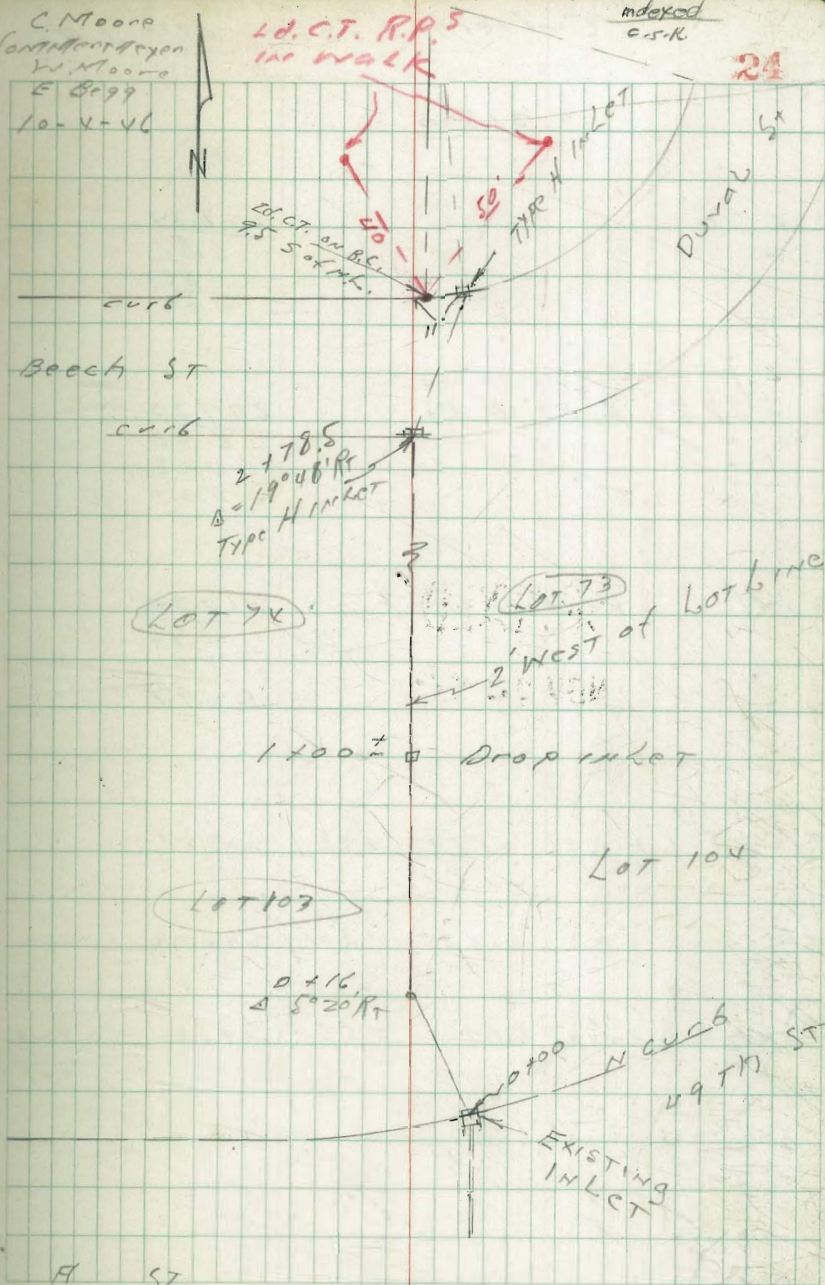
C 3.97

C. Moore
S. Moore
W. Moore
E. Moore
10-4-46

LD. CT. R.P. 5
in walk

indexed
c.s.k.

24



Culvert Const. 29th + 1st

21520

2 + 50

208.34
6.06
2.86
C 4.00

2 + 78.5 = Δ 19' 48" RT

209.20
6.00
2.68
C 3.32

3 + 11 Curb in Let

210.30
4.90
1.93
C 2.97

T.P. 4.66 217.93 1.93 213.27

T.P. 5.93 210.85 1.301 204.92

check to orig. B.M. 2.55 208.30 208.29
0.01

INDEXED
NOV 19 1938

CONST. DRAIN BET. CSM
 A + B and 2774 + 2874 C.S.
 offsets C' Wt. WM
 10-1X-46 E.B.

NO. #3V

26

INDEXED

0433.53 BC.

WK
 NOV 16 1948

166.94 ✓

166.94

6.58

173.52 X

1 2°19' 166.53
 6.99
 3.64
 C 3.35

2 6°38' 166.11
 7.41
 4.37
 C 3.04

3 9°57' 165.70
 7.82
 4.85
 C 2.97

4 = 0 + 75.21 EC 13°16' 165.28
 8.24
 5.10
 C 3.14

0 + 80 Break

165.09
 8.43
 4.97
 C 3.46

173.52

1 + 00.

164.37

9.15

5.18

163.97

+ 20

163.81

9.71

4.43

163.58

+ 40

163.40

10.12

4.22

163.90

+ 60

163.14

10.38

6.38

164.0

1 + 72 Catch Basin

163.03

10.49

6.84

163.65

1 + 83.93 B.C.

2

3

 $x = 2 + 1.645 E.C.$ $z + 50.40$ $z + 84.30 \text{ Ex. pipe}$

CONSTR. PAVING & CURBS
ON **SUNCREST DRIVE**
AT Boundary

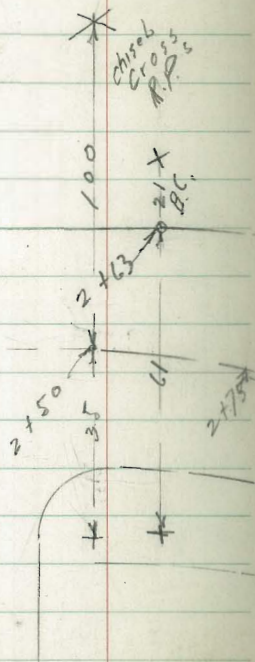
C. Moore
Supt.
W.M.
E.B.
11-2-46

W.O. # 123

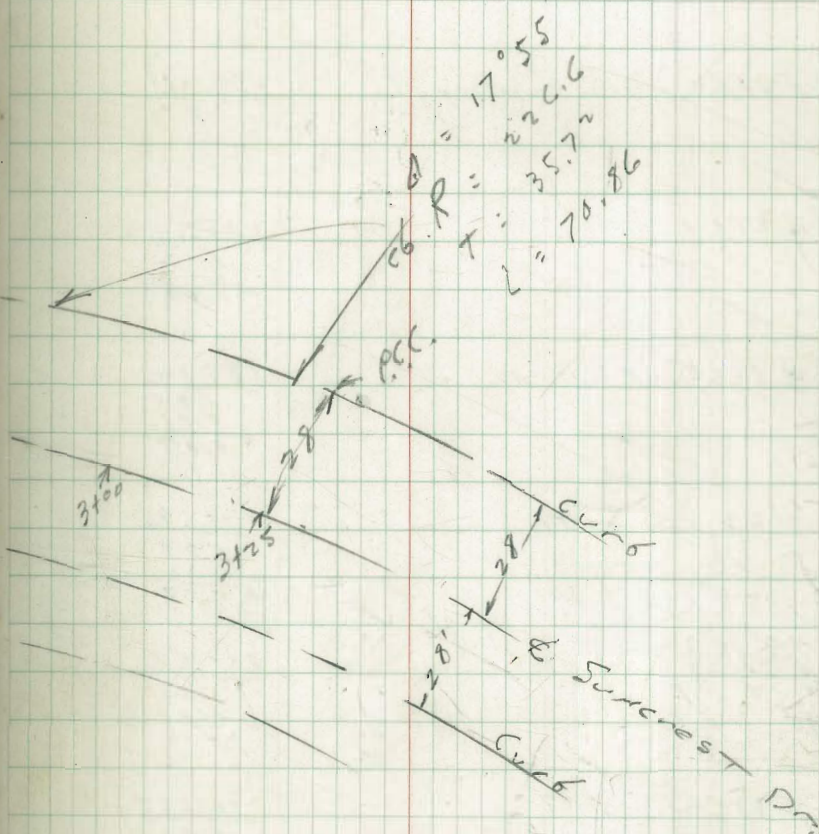
29

INDEXED
WK
NOV 16 1948

26
25
at 50
Footwalk



Boundary St.



Station	Angle
2+50 B.C.	
2+75	2° 59.15'
3+00	5° 58.30'
3+25	8° 57.45'

SUNCREST Dr.
N. curb grade

38679 B.M. SE 7' C.T.

30

4.76
391.55

Below Suncrest

1 + 91.64 = W.L. Boundary

385.76
5.79

2 + 21.64

385.73
5.82
6.05
F 0.43

2 + 51.64 = E.L. "

385.70
5.85
6.02
F 0.77

2 + 63 B.C. Pt

14.31

385.685
5.87
6.44
F 0.57

2 + 77.31 1° 48.5'

14.31

385.67
5.88
6.47
F 0.61

2 + 91.64 3° 37'

14.31

385.655
5.90
6.58
F 0.68

3 + 05.94 5° 25.3'

13.95

385.64
5.91
6.55
F 0.74

3 + 19.90 7° 11.4'

13.96

385.575
5.98
6.72
F 0.74

3 + 33.86 = P.C.C. 8° 57.5'

385.51

SUNCREST DR.

IV. GUTTER GRADE

BM BP SE

Adams + Bdry = 390.96

0+50 $\frac{4.10}{385.61}$

$\frac{2.45}{388.61}$

$\frac{3.32}{391.93}$

$\frac{5.14}{386.79}$

0+75 $\frac{3.59}{390.38}$ = SE. 7' CT. Bdry. SUNCREST DRIVE 385.54

1+00 385.47

1+25 385.40

1+50 Break 385.33

1+75 Break 385.26

0.28%

1+91.64 - W.L. Bdry. 385.20 ✓

$\frac{5.18}{461}$

2+01.64 385.18 ✓ $\frac{0.57}{C 117}$

2+21.64 F " 385.12

$\frac{5.28}{4.09}$

2+51.64 E.L. " 385.04 ✓

$\frac{5.34}{4.02}$

2+63 = B.C. 385.01 ✓

$\frac{5.37}{3.75}$

2+77.31 384.97 ✓

$\frac{5.41}{4.07}$

2+91.62 384.93 ✓

$\frac{5.45}{4.09}$

P. 32

SUNCREST Dr.
N. Gutter Grade

3705.94

384.89
5.49
4.55
C0.94

3719.9

384.80
5.58
4.66
C0.92

3733.84

384.70
5.68

Suncrest Dr.

No. 13' Line grades

33

SUMCROST DR.

E. Pav. grades

2 + 75 2° 59.15' 385.91

2 + 51.44 = EL Bdry 386.16 ✓

2 + 50 B.C. Rt 386.16 ✓

2 + 41.64 E cb Bdry 386.18 ✓

2 + 30.64 E¹/_y Bdry 386.11 ✓

2 + 21.64 = E Bdry 385.98

2 + 11.64 385.70

2 + 01.64 W cb Bdry 385.42

Bdry.
3.8679 B.M. SE 7' C.T. Sumcros 34
4.37
391.11

3 + 25 8° 57.45 385.43 ✓

3 + 00 5° 58.30 385.67 ✓

Stake Perry St, Sewer
at San Antonio

0400 M.H. INDEXED - 423
WK 14.39
NOV 17 1948 12.67
C 6.72

offsets ONLY

0420 2.27
12.89
7.32
C 5.57 I.P.

0480 8.77
18.15
11.48
C 6.67

1420 15.27
11.65
4.48
C 7.17 I.P.

1460 D.E. 21.77
5.15
0.68
C 4.47

35

W.O. #199

C.M.
C.S.
W.M.
E.B.

11-21-46.

3.00 B.M. SW 7' CT.
11.5X
15.10 = X Perry + San Antonio
0.18
14.98
11.9X
26.92 X
11.9X
14.98
0.35
15.33
11.71
3.62 ✓

H.H. Peterson

Private Contract

Set curb stakes (curb grade)
3' Back of Curb Line

31.11 - B

lots 41-42 Blk 33

Second Fairview Park Add.

B.M. & Ld.
La Playa

531 31.75

26.44 Ingraham

INDEXED
WK
NOV 17 1948

26.96
4.79 ✓

27.17
4.58 ✓

BLK
33

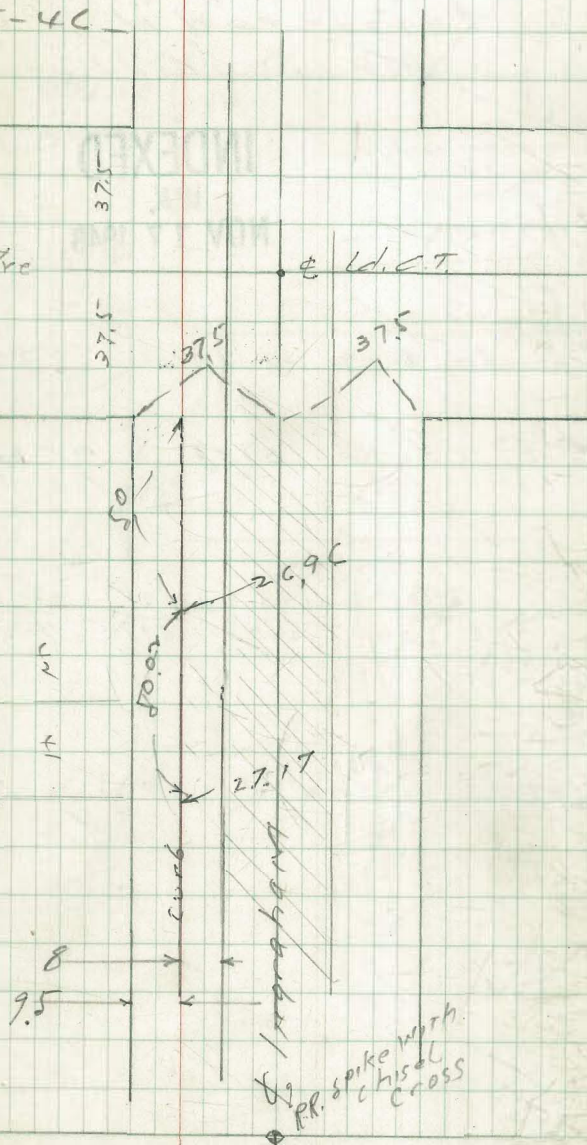
C. Moore
San Mateo Co
W. R. M.
E. B.
12-5-40

W. O. #200

36

La Playa Ave

E. Id. C.T.



Set 50' curb

LOT 1 BLK C E S D.

NW 3 P

38' 4" Wignam 11.1 330.86

319.70

INDEXED

WK

NOV 17 1948

325.05
5.81

327.95
2.91

328.28
2.58

329.50
1.36

127

0.09
High

CM 0000

C.S.

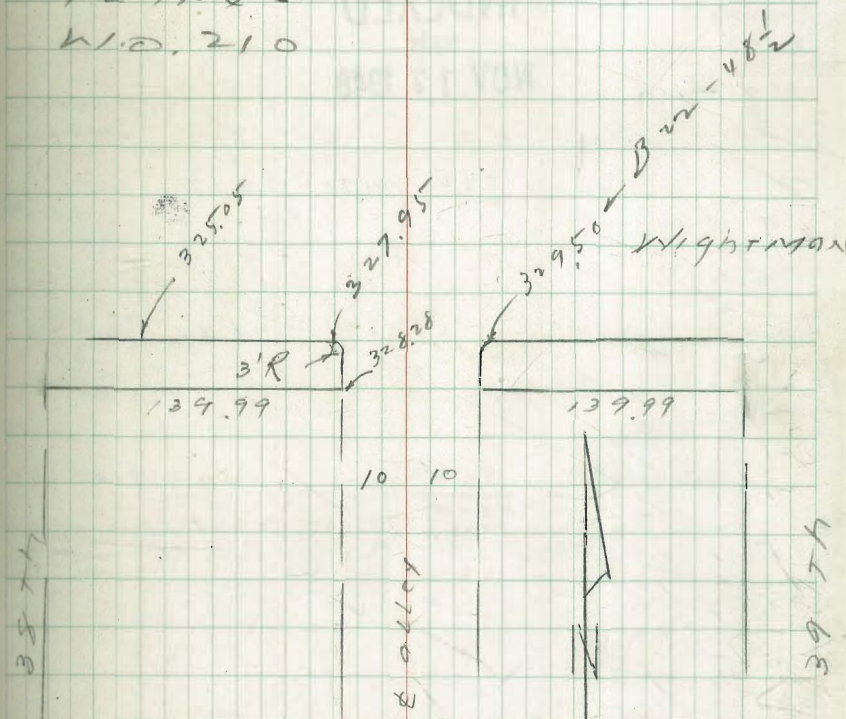
W.M.

EB

12-11-48

W.D. 210

38



Const of Returns
 Santa Clara Pl. & Mission Blvd

Moore
 1349
 Green
 Roberts
 3-24-47

INDEXED
 WK
 NOV 17 1948

W.O. #210

BMBP 472 11.91 719
 5.40 5.57 11.74 0.17

Santa Clara
 Seawall

3' offset

$\Delta = 84^{\circ}04'$

$R = 22$

$T = 19.83$

$\Delta = 10^{\circ}30'30''$

$21^{\circ}01'$

$31^{\circ}31'30''$

$42^{\circ}02'$

$cb 20'$

cb grade

-0.02	-0.09	-0.15	-0.20	-0.21	-0.10	-0.15	-0.18	-0.19	-0.20
5.70	5.77	5.83	5.88	5.89	5.78	5.83	5.86	5.87	5.88
			5.86	5.88				5.84	5.84
			0.00	0.01				0.03	0.04

907755

-0.02 -0.26 -0.44 -0.55 -0.59 -0.10 -0.33 -0.51 -0.53 -0.54

N.R.B.P. Santa Clara
 Mission Blvd. 5.91 -0.34 -0.23

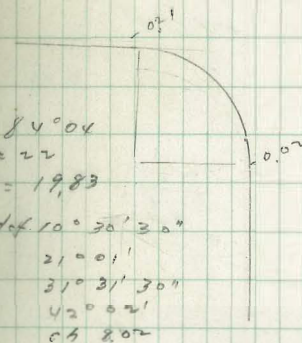
5.91 5.68
 used this

-0.23 Used this

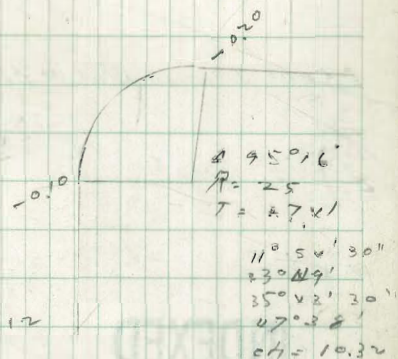
Mission Blvd

2 R. 16.5

17.5



Santa Clara Pl.



cb grade

907755

6" Water Line Const.
on Sapphire St.
Mission Blvd. to Bayard St.

Moore
Begg
Green
4-16-47

N.W. B.P.
Mission Blvd 9.18 107.72
T.P. 11.1x 115.71
check to NW RR Spike
Bayard
Sapphire

98.5x
40
3.15 104.57
0.43 115.28 115.29
0.01

W.O.#

E.L.
0 + 00 = Mission Blvd 94.66
73.06
10.48
C 2.58

0 + 10 Break 94.9
12.82
9.97
C 2.80

0 + 50 95.7
12.02
7.82
C 4.20

INDEXED

WK
NOV 17 1948

1 50 97.71
10.01
5.41
C 4.60

2 50 98.71
9.01
4.83
C 4.18

3 50 99.71
8.01
4.25
C 3.76

4 50 100.72
7.00
3.80
C 3.20

5 50 101.72
6.00
3.15
C 2.85

6 50 102.72
12.99
10.65
C 2.34

7 50 103.73
11.98
8.97
C 3.01

5 + 00

4 + 50

6

+ 428 Brk

6 + 57.8 W.L. Bayard

104.73
10.98
7.03
C 3.95
105.73
9.98
5.64
C 4.34
106.74
8.97
4.06
C 4.91
107.60
8.11
3.15
C 4.96
107.70
8.01
3.46
C 4.55

Stakes off 4' S of
E of ditch

ditch 10' S of E St.

Moore
Boyer
Green
Johnson

Sewer CONST

4-18-47, FRANCIS ST. W.O. 31128
offsets 5' Rt. or East
M.H. " " 15' " @ 90°

+50 INDEXED
WK
NOV 17 1948

30.57
9.31
1.50
C 7.81

2 26.95
12.93
4.53
C 8.40

1 + 80 M.H. #1 25.50
14.38
6.30
C 8.08

1 + 50 24.90
14.98
8.12
C 6.86

1 + 00 23.91
15.97
10.34
C 5.63

0 + 50 22.92
16.96
10.51
C 6.45

0 + 00 EX. M.H. #1 21.93
& GILLETTE 17.95
11.79
C 6.16

T.P. 10.56 39.88 342 29.32

BT, BP & N rail Bridge 317 32.74 29.57
E of 3rd LMP

L 55.33
9.01
3.24
C 5.77

+50 51.84
12.50
6.82
C 5.68

5100 48.36
15.98
10.18
C 5.80

T.P. 12.74 64.34 0.22 52.10
4 + 50 44.87
7.45
1.31
C 6.14

4 + 00 41.39
10.93
3.57
C 7.36

3 + 80 M.H. #2 40.00
& TANKS 12.32
3.73
C 8.59

3 + 50 37.82
14.50
4.49
C 10.01

3 + 00 34.20
18.12
8.78
C 9.34

T.P. 12.76 52.32 0.32 39.56
39.88

7 + 44.55 DE.

75.02
12.18
6.45
C 5.73

9

72.97
74.23
7.27
C 2.86

+ 50

70.66
16.54
8.77
C 7.77

T.P. 10.77

87.20

0.18

70.43

8

68.38
8.26
1.54
C 6.72

7 + 60.05 M.H. #3
E.L. ST.

66.50
10.11
2.54
C 7.57

+ 50

65.78
10.83
2.72
C 8.11

7

62.30
14.31
5.61
C 8.70

6 + 50

58.81
17.30
10.30
C 7.00

T.P.

12.35

76.61

0.08

64.26

64.34

87.20

T.P. 12.69

99.44

0.25

86.75

check to P 5706
35th + K ST.

0.58

98.86

98.86

W10.31128

35th St. Sewer CONST.

TP 12.94 59.98 0.29 47.04
 2+50 36.97 ^{10.36}_{2.02}
 c7.36

INDEXED

WK

NOV 17 1948

2+25 33.79 ^{13.54}_{5.05}
 c8.49
 2+00 30.60 ^{16.75}_{9.77}
 c6.96

TP 12.48 47.33 0.04 34.85
 1+60 M.H. #440° 08' Rt. 25.50 ^{9.39}_{5.81}
 c5.38

1+20 25.27 25.16 ^{9.72}_{7.34}
 c5.38

0+80 25.09 24.82 ^{10.07}_{7.75}
 c5.32

0+40 24.81 24.48 ^{10.41}_{8.16}
 c4.85

0+00 Ex. M.H. #4 & Gillette 24.50 24.14 ^{10.73}_{7.80}
 c5.95
 Exist channel to works

BM 5.06 34.89 29.83 ^{07 Rim MH}₅₊₀
 1709-1

offsets nails + staked
 5' East of 2 sewer

April 28-47
 S. 1807
 M. C. O'Neil
 Files 43

Location of marks 1709-1

2+00 12.26 ^{7.42}_{1.83}
 c5.56

+50 60.28 ^{9.10}_{5.17}
 c6.23

5+00 58.30 ^{11.31}_{4.29}
 c7.09

+59 56.32 ^{13.36}_{5.89}
 c7.77

4+00 54.34 ^{15.34}_{8.22}
 c9.10

3+80 M.H. #5 53.55 ^{16.13}_{8.70}
 2 Tank Lines c9.43

+50 49.72 ^{19.96}_{7.37}
 c12.59

TP 10.08 69.68 0.38 59.60 ^{16.63}_{4.97}
 3+00 43.35 c11.86

59.98

150		87.01		19.32 9.81 c9.81
TP	11.63	106.33	0.41	94.70
9				83.38 11.73 4.04 c7.69
150		79.75		15.36 9.62 c5.74
TP	12.64	95.11	0.04	82.47
8				76.12 6.39 2.34 c4.05
150		72.49		19.07 2.90 c7.12
7				68.86 13.65 5.90 c7.75
150		65.73		17.28 11.24 c6.04
TP	12.94	82.51	0.11	69.57
6+20	M.H.#C			63.05 6.63 0.90 c5.70
	A = 1.24' R. S = 1.09' R.			
		69.68		

11+75 = D.E.		95.03		11.30 4.12 c7.18
150				94.32 12.01 2.77 c9.24
11		92.90		13.43 3.00 c10.43
150				91.48 14.85 3.36 c10.29
10		90.06		16.27 3.67 c10.60
9+64.3	<u>DROP</u> M.H.#7	89.05		17.28 3.29 c8.79
8M		88.05		18.28 3.19 c9.79
		7.45	98.88	0.25 5.12 19.09 98.90
		106.23		

Plane grades for drive,
walk etc.
LOT 11 Pt. Loma Hts.

Moore
Begg
Green
Roberts
5-26-47.

W.O. 21018

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Stakes set Property grade on Prop. Line

0+55

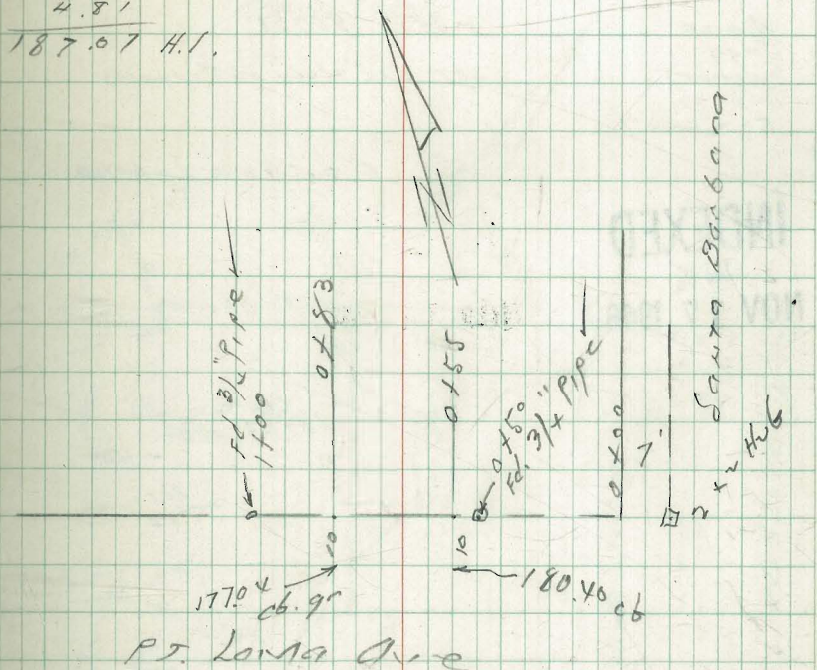
180.50
6.57 ✓

0+83

177.14
9.93 ✓

Santa Barbara 45

182.26 = SW BP ← Pt Loma Ave
4.81
187.07 H.I.



Survey Lot 13 and sly 20' of Lot 12 Blk E Resub. of Pt. Loma Hqs.

Moore
8-99
C. Green
Roberts
5-26-47

W.I.D. 90051
set 2"x2" Hubs or Corners

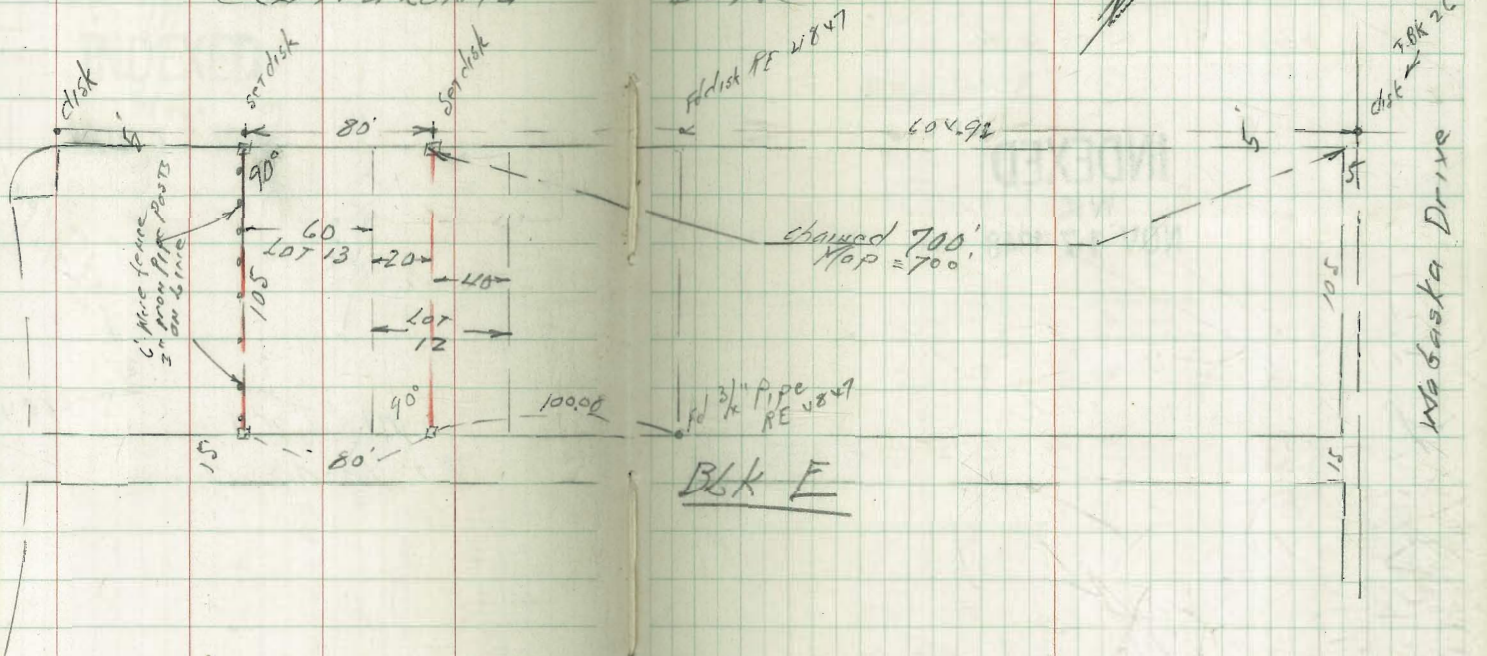
Map #1523

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La Cresta Drive

Centraloma Drive

Drive



Blk E

Wabaska Drive

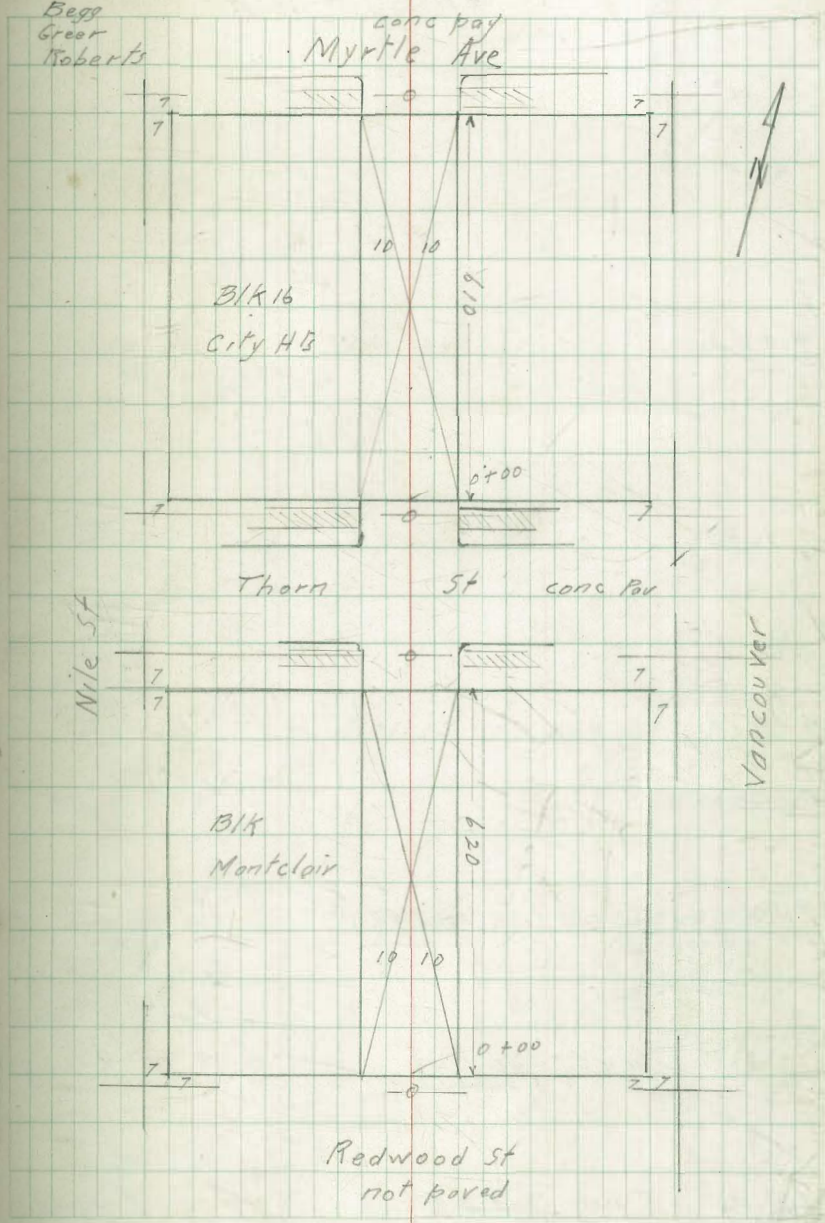
24 June 47
 Stake Alleys 15+16 City Hgts as
 shown on 6697-6 V.O. 31190
 see 1673 for X section notes
 5A

for construction property to
 property & 20' wide

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 WK
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Begg
 Greer
 Roberts

47



Redwood to Thorn

48

+ HI - EI

W C

E

1+00

301.16
3.83
C 0.03V

301.34
3.39
C 0.29V

0+50

300.60
4.16
C 0.26V

300.40

300.80
3.82
C 0.40V

0+30

300.10
4.49
C 0.43V

299.90

300.30
4.06
C 0.66V

0+10

299.30
4.93
C 0.79V

299.10

299.50 299.50
4.93 4.33
3.87
C 1.19V

0+00

North Line Redwood

299.00
5.13
6R 5.92 6.02
CUT 0.89V

298.80

299.20 12R
Red 4.80
6R 5.82
CUT 1.02V

11.45 304.43

299.98 8-15-47

5W BP

5-04 305.02

299.98 Redwood & Vancouver

305.02

T H1 - E1

W F E

3+00

303.41
5.64
C 0.38 ✓

303.51
5.04
C 0.88 ✓

2+50

302.85
6.35
C 0.23 ✓

302.97
5.90
C 0.56 ✓

~~6.52 309.43~~

309.43

T.P.

~~2.11 302.91~~

2+00

~~302.79
2.23
C 0.50 ✓~~

302.79
4.63
4.65
F 0.02

302.42
2.84
C 0.36 ✓

1+50

301.72
Red 3.28
C 0.02 ✓

301.88
5.04
4.80
C 0.18

301.88
~~2.84~~
0.30 ✓

T.P. 4.43 306.92 1.94 302.49
304.43

305.02

305.02

Redwood to Thera

W

♀

E 50

3400

305.66
3.44
C 0.33V

305.67
2.82
~~1.14~~
C 0.94V

4450

305.10
3.78
C 0.55V

305.13
3.09
C 1.21V

4400

304.54
4.66
C 0.23V

304.59
3.81
3.60
~~0.21~~ C 0.53V

3450

T.P

481

308.40 333

303.59

306.92

309.43

303.97
4.43
4.21
C 0.02
~~303.97~~
~~4.75~~
C 0.71V

304.05
4.74
C 0.64V

309.43

	T	H1	-	E1	NEBP Nile + Thorn
				7.20	303.71
6+20	South	Line	Thorn		303.69 .02

6+10

5+90

5+70

5+50

4.22 310.91

T.P.

2.74 306.69

5+30

308.40309.43

	W	±	E
	305.24		305.24
	5.71		5.68
	F 0.04 ✓		F 0.06 ✓

305.30	<u>305.30</u>
3.68	<u>3.10</u>
C 1.93 ✓	<u>C 1.77</u>

305.80	305.80
3.89	3.71
C 1.22 ✓	C 1.40 ✓

306.10	306.10
3.97	4.00
C 0.84 ✓	C 0.81 ✓

306.15	306.15
4.10	4.15
C 0.66 ✓	C 0.61 ✓

310.91

306.00	306.00
2.98	2.67
C 0.45 ✓	C 0.76 ✓

309.43

W

E

0+80

$$\begin{array}{r}
 308.25 \\
 \underline{4.94} \\
 303.31 \\
 \text{C } 0.00 \checkmark
 \end{array}
 \quad
 \begin{array}{r}
 308.25 \\
 \underline{5.09} \\
 303.16 \\
 \underline{4.58} \\
 308.74 \\
 \text{C } 0.51 \checkmark
 \end{array}
 \quad
 \begin{array}{r}
 307.95 \\
 \underline{4.16} \\
 303.79 \\
 \underline{4.22} \\
 308.01 \\
 \text{C } 0.93 \checkmark
 \end{array}$$

$$\begin{array}{r}
 308.25 \\
 \underline{4.16} \\
 304.09 \\
 \underline{4.22} \\
 309.87 \\
 \text{C } 1.72 \checkmark
 \end{array}$$

0+60

$$\begin{array}{r}
 307.75 \\
 \underline{5.57} \\
 302.18 \\
 \text{C } 0.87 \checkmark
 \end{array}
 \quad
 \begin{array}{r}
 307.75 \\
 \underline{5.59} \\
 302.16 \\
 \underline{4.38} \\
 306.54 \\
 \text{C } 1.21 \checkmark
 \end{array}
 \quad
 \begin{array}{r}
 307.75 \\
 \underline{4.55} \\
 303.20 \\
 \underline{4.31} \\
 307.89 \\
 \text{C } 1.89 \checkmark
 \end{array}$$

$$\begin{array}{r}
 307.75 \\
 \underline{4.55} \\
 303.20 \\
 \underline{4.31} \\
 307.89 \\
 \text{C } 1.89 \checkmark
 \end{array}$$

T.P.

607 313.34 355 307.27

0+40

$$\begin{array}{r}
 307.20 \\
 \underline{5.82} \\
 301.38 \\
 \text{C } 1.17 \checkmark
 \end{array}
 \quad
 \begin{array}{r}
 307.20 \\
 \underline{3.67} \\
 303.53 \\
 \underline{2.23} \\
 305.76 \\
 \text{C } 1.39 \checkmark
 \end{array}
 \quad
 \begin{array}{r}
 307.20 \\
 \underline{5.75} \\
 301.45 \\
 \underline{4.24} \\
 305.69 \\
 \text{C } 1.24 \checkmark
 \end{array}$$

$$\begin{array}{r}
 307.20 \\
 \underline{5.75} \\
 301.45 \\
 \underline{4.24} \\
 305.69 \\
 \text{C } 1.24 \checkmark
 \end{array}$$

5.90

314.19314.19

TP

3.00 308.29

0+00

N.L. Thorn

$$\begin{array}{r}
 306.00 \\
 \underline{5.36} \\
 300.64 \\
 \text{F } 0.07 \checkmark
 \end{array}$$

305.70

$$\begin{array}{r}
 306.00 \\
 \underline{5.32} \\
 300.68 \\
 \text{F } 0.03 \checkmark
 \end{array}$$

7.13

310.82

303.69 8/15/47

NEBP

7.60

311.29

303.69 Nile & Thorn

311.29

+ HI -

5.33 315.39

4.13 310.06

2+00

1+50

1+20

1+00

313.34

314.19

Thorn to Myrtle

53

W

±

E

315.39 over

- 309.43 3.91
 4.14 3.51
C 0.62 ✓ C 0.30

309.43 309.43
 3.91 3.89
 3.59 3.87 ✓
C 0.82 C 0.87 ✓

- 309.04
 4.50
C 0.65 ✓

309.04 309.04
 4.30 4.24
 3.67 3.91 ✓
C 0.63 C 0.91 ✓

308.80 308.80 308.50
 4.77 4.54
C 0.62 ✓ F 0.28

4.54 308.80
 3.99 4.43
C 0.55 C 0.96 ✓

308.60 4.74 308.30
 4.44 4.08
C 0.12 ✓ C 0.66

308.60 308.60
 4.74 4.13
 4.10 4.16 ✓
C 0.64 C 1.46 ✓

314.19

+ HI -

400

3150

T.P. 482 316.11 3.50 311.29

3100

2150

T.P. 532 314.79 3.87 309.47
313.34
315.39

Thorn to Myrtle

54

W \$ E

311.00
3.46
C 0.93 ✓

310.70

311.00
4.09
C 0.30 ✓

310.61
3.72
C 1.06 ✓

310.61
4.18
3.27
C 0.91

418
3.80
C 0.32

310.61
3.96
C 0.82 ✓

310.21
4.95
C 0.23 ✓

310.21
4.79
C 0.39 ✓

309.82
5.10
C 0.47 ✓

309.82
5.03
C 0.54 ✓

315.39

+ H1 -

W ♀ E

6+10 S. Line Myrtle

313.40 present
 4.61 per
 C 8.03 ✓
 313.28
 3.57
 C 1.19 ✓

313.41 present
 4.63 per
 C 0.00 ✓
 313.28
 4.65
 C 0.61 ✓

6+00

312.68
 3.89
 C 1.47 ✓

312.38
 312.68
 4.88
 C 0.48 ✓

5+60

10

5+50

312.58
 4.30
 C 1.16 ✓

312.58
 3.53
 1.82
 C 1.71

3.53
 3.02
 C 0.51
 312.58
 4.95
 C 0.51 ✓

5+00

312.05
~~5.44~~
 C 0.55 ✓

312.05
 4.06
 3.13
 C 0.63

312.05
 5.44
 C 0.50 ✓

4+50

316.11
 6.42 318.04
315.39 3.77 311.62

311.52
 5.78
 C 0.74 ✓

311.52
 4.59
 3.95
 C 0.22
318.04

311.52
 6.30
 C 0.22 ✓

+ #1 -

Nile & Myrtle
SE BP

5.90	319.72	5.19	314.53	314.56 03
	<u>318.04</u>	4.22	313.82	

318.04

July 14, 1947 State Curb & Sidewalk S.E. Cor
 Hendricks Marlborough & El Cajon
 W. Moore &
 Sherman
 1107 2108
 319

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Check Existing Curbs

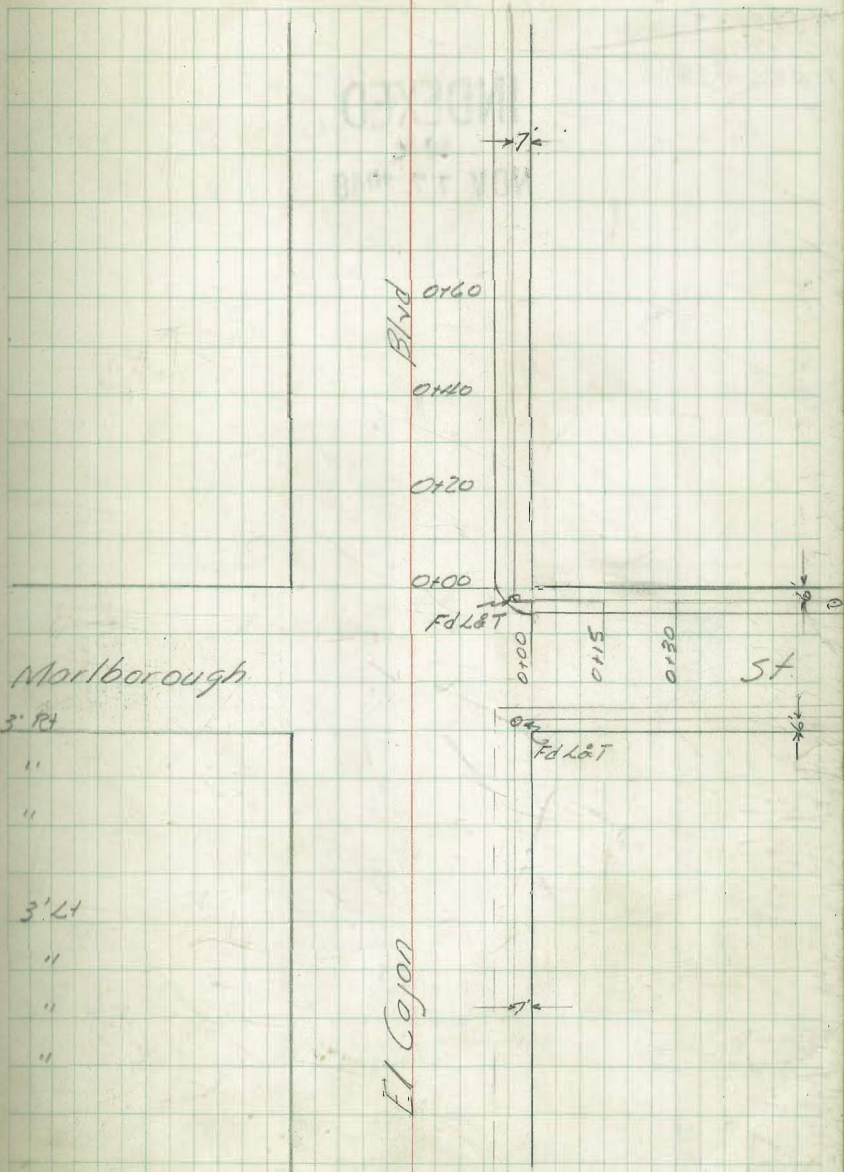
	+	HI.	-	Elev. Grade	Elev. Nails	Fills
0+00	on Marlborough	5.23		364.91		
0+30	"	"	5.31	364.83		
0+00	on El Cajon	5.29		364.85		
0+60	"	"	5.43	364.71		

0+30		5.74	364.81	364.40	F0.41	3' 84
0+15		5.73	364.85	364.41	F0.44	"
0+00	on Marlborough	5.76	364.90	364.38	F0.52	"
0+60		5.74	364.74	364.40	F0.34	3' 64
0+40		5.67	364.80	364.47	F0.33	"
0+20		5.64	364.85	364.50	F0.35	"
0+00	on El Cajon	5.63	364.90	364.51	F0.39	"

B.M. 5.00 370.14

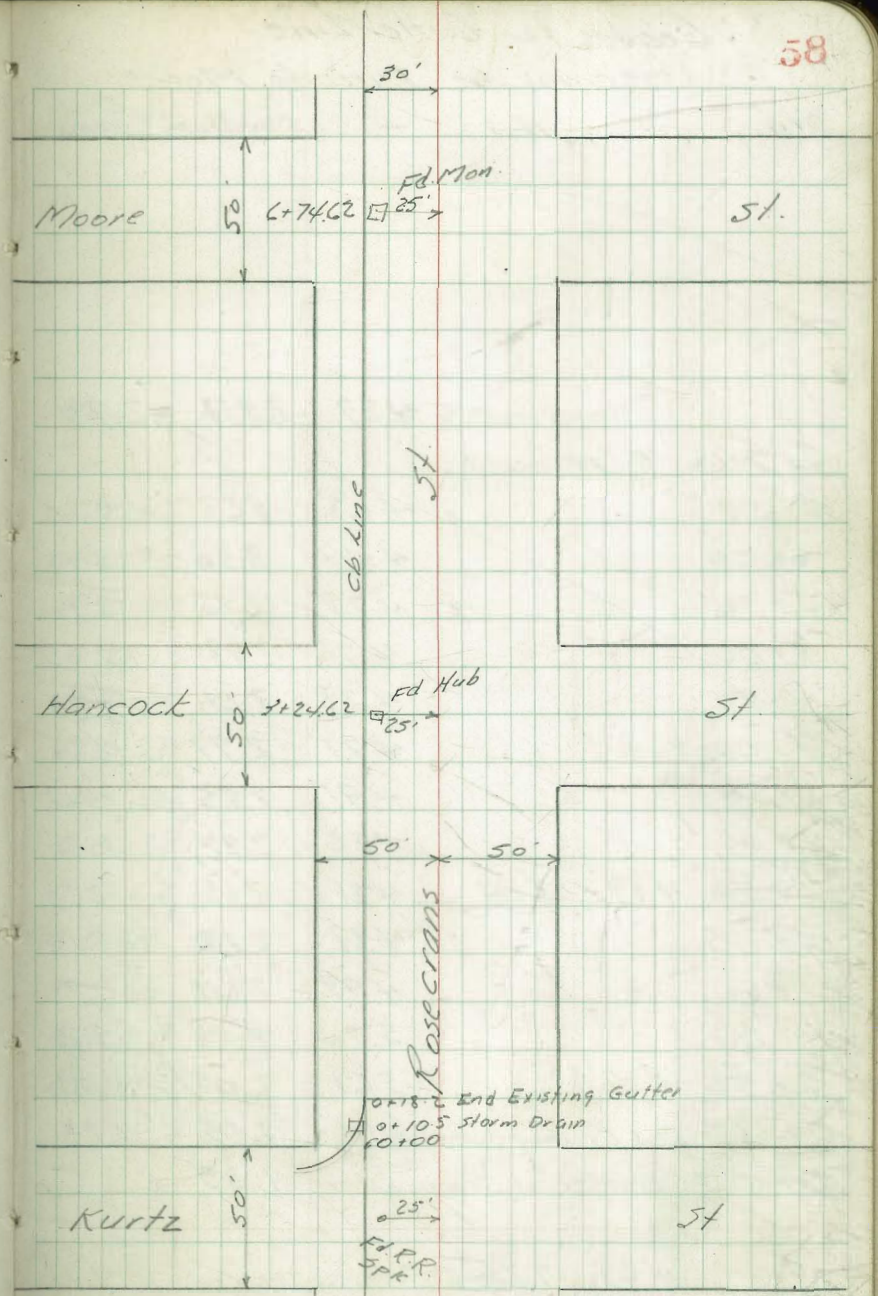
365.14 S.W.B.P. El Cajon & Marlborough

57



July 16, 1947 Grades for Gutter Line
 Hendricks Rosecrans Ave. Kurtz to Moore
 H. Moore
 Sherman
 NO # 60135

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 WK
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Grades for Gutter Line

Rosecrans Ave Kurtz to Moore

Sta + H.I - Elev. States Elev. Grade

Sta	H.I	Elev. States	Elev. Grade
		4.87	2.97
6+74.2			2.93
6+50		4.08	3.58
6+00		4.44	3.30
5+50		4.79	2.95
5+00		4.76	2.98
4+50		4.73	3.01
4+00		4.77	2.97
3+50		4.91	2.83
3+00		4.82	2.92
T.P. 2+50	4.89	7.74	4.81
2+00		4.87	2.79
1+50		4.99	2.67
1+00		5.24	2.42
0+50		5.61	2.05
0+18.2	End Existing Gut		6.01
			6.33
0+10.5	Gutter at Storm Drain		1.33
	4.69	7.66	2.97

Cuts 3' offset Lt.

Moore & Moore 25' Lt. & Rosecrans

C 0.45 -

C 0.20 -

F 0.03 -

C 0.13 -

C 0.28 ✓

C 0.37 ✓

C 0.35 -

C 0.57 ✓

C 0.62 ✓

C 0.69 ✓

C 0.69 ✓

C 0.57 ✓

C 0.32 ✓

S.W. B.P. Rosecrans & Kurtz

36"
Const. do. drain on Euclid
100' S. of Challa Pt

Moore W.O. 80053
Green
Roberts A = 40° For Both
8-18-47. P = 22.5 d. drain
T = 8.19
L = 15.7

Nly drain
offsets 10' N of E

0+31.7 end
$$\begin{array}{r} 168.02 \\ 11.28 \\ 8.25 \\ \hline C 3.03 \end{array}$$

0+15.7 E.C.
$$\begin{array}{r} 167.73 \\ 11.57 \\ 9.93 \\ \hline C 1.64 \end{array}$$

0+7.85 S Curve
$$\begin{array}{r} 167.58 \\ 11.72 \\ 10.00 \\ \hline C 1.72 \end{array}$$

0+00 B.C. Lt. or hdw. b.
$$\begin{array}{r} 167.44 \checkmark \\ 11.86 \checkmark \end{array}$$

B.M. Top 820 179.30 171.10
hdw. b.

1733-74

Sly drain

60

INDEXED
WIK
NOV 17 1948

offsets 10' S of E

0+35.7 end
$$\begin{array}{r} 168.02 \\ 11.28 \\ 7.25 \\ \hline C 4.03 \end{array}$$

0+19.7 E.C.
$$\begin{array}{r} 167.76 \\ 11.54 \\ 8.17 \\ \hline C 3.37 \end{array}$$

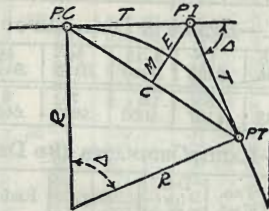
0+11.85 S Curve
$$\begin{array}{r} 167.53 \\ 11.67 \\ 8.61 \\ \hline C 3.06 \end{array}$$

0+04 B.C. Lt.
$$\begin{array}{r} 167.50 \\ 11.80 \\ 8.54 \\ \hline C 3.26 \end{array}$$

0+00
$$\begin{array}{r} 167.44 \\ 11.86 \checkmark \end{array}$$

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

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



CURVE FORMULAS

- Radius= $R = \frac{50}{\sin \frac{D}{2}}$ (1) Degree of Curve= D and $\sin \frac{D}{2} = \frac{50}{R}$ (2)
 Tangent= $T = R \tan \frac{\Delta}{2}$ (3) Length of Curve= $L = 100 \frac{\Delta}{D}$ (4)
 Middle ordinate= $M = R(1 - \cos \frac{\Delta}{2})$ (5) $= R \text{vers} \frac{\Delta}{2}$ (6)
 External= $E = T \tan \frac{\Delta}{4} = R \div \cos \frac{\Delta}{2} - R$ (8) $= R \text{exsec} \frac{\Delta}{2}$ (9)
 Long Chord= $C = 2 R \sin \frac{\Delta}{2}$ (10) Δ = 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° 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 - 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° 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 $D = 5^\circ 30'$.

2785
32.5
371.0

DISTANCES FROM CENTER OF ROADWAY FOR
CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½
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) ÷ 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.

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