

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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1698

CITY ENGINEER'S OFFICE

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Made in U. S. A.

Walker
Hurdin
Handled
11-15-45

ALIGNMENT
Proposed 50' Road
from Sorrento to Filter Plant

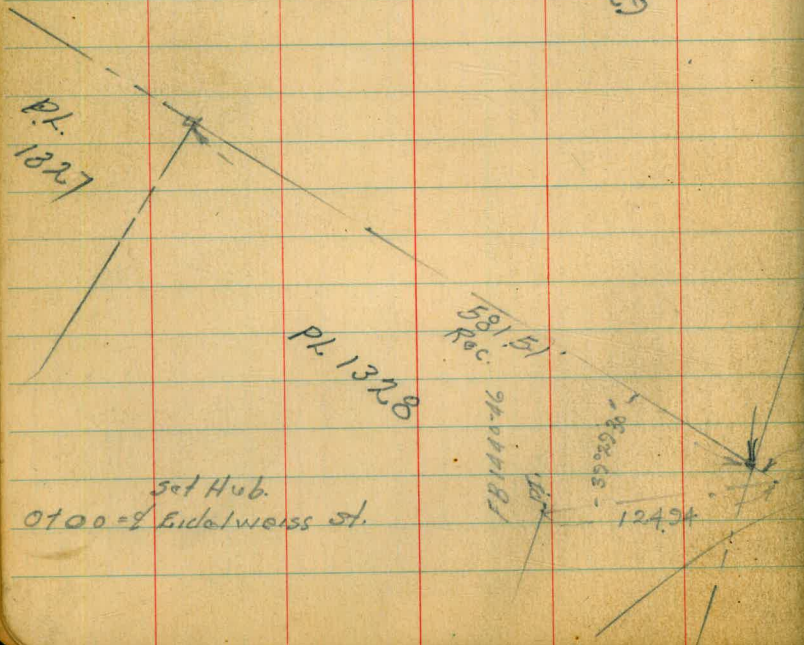
Stations

572651 = B.C. Lt.

Note: Public Land Surveys
in Roll #4625

52651' N. 36° 50' 10" W

Pl. 1329



$\Delta = 65^\circ 52'$
 $R = 250'$
 $T = 161.94'$
 $L = 287.40'$
 $Ext = 47.87'$

Indexed
C.S.K

1

B.C.
572651

29.78
160.85
199.07
389.70

245.70
53.93
191.77

199.07
160.85
359.92

72318'
S. 15° 26' 10" E

N. 36° 50' 10" W
526.51

1366'
S. 50° 52' 50" W
6/13/60
160.85
298.93

At 600
BC. A. Hurdin
FB 1470
46

8.M
Conc. Mon

Edelweiss St.
Set P.K.
388.15
399.15
298.93

Set P.K. & Main Rails

6/13/60 HATCH

Set disc in Poles

Ed. disc in pole

Station

Alignment ~
Proposed Filter Plant
Road.

10+00

+50

9+00

+50

8+13.91 = E.C. 32°56'

8+00 31°20.5'

+50 25°36.7'

7+00 19°52.8'

+50 14°09.04'

6+00 8°25.27'

+75

+50 2°41.5'

5+2651 = B.C.

Pl. 1328 N.E. Cor.

Rec. 74°11'40"

72.3.18
S-15°26'10"E

N-36°50'19" W

$\Delta = 65^{\circ}52'$
 $ER = 250'$
 $T = 161.24'$
 $L = 287.40'$
 $EA = 47.87'$

8413.91
E.C.

S 77° 18' 59" W
220.80

161.24

17.24

21.24
144.70

5+2651
B.C.

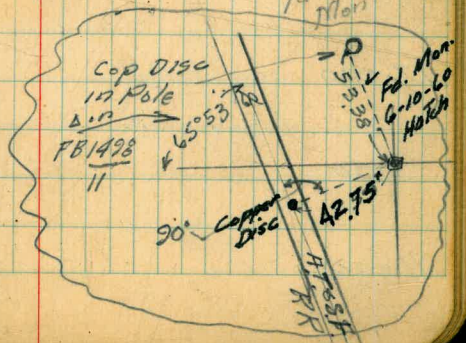
P.I.

Pueblo
Lane

Fd. Cor.
Mon

N 74° 59' 30" E

Reference Ties
in sketch Below



- Alignment -
Proposed Road
Filter Plant

Station

$\Delta = 55^{\circ}58'$

+50

$R = 250'$

16+00

$T = 132.83'$

$L = 244.20'$

+50

Ext. 33.10'

15+34.71 = B.C. 1st Set Hub

15+00

+50

14+00

+50

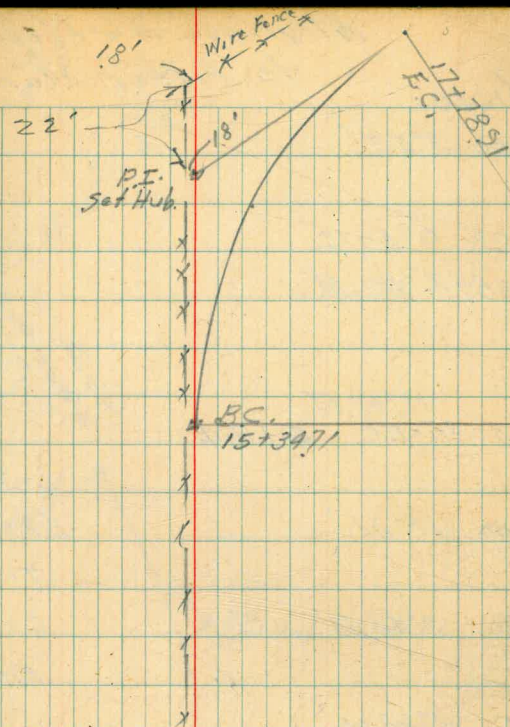
13+00

+50

12+00

+50

11+00



Alignment - Proposed Road
to Filter Plant

Stations

+50 3°42'

22+00 0°50.12'

21+85.42 = B.C. Pt.

17°27.75

21+30.85 = E.C. Set Hub

21+00 14°31'

+50 2°44.53'

20+00 4°58.05'

19+47.98 = B.C. Pt. Set Hub

19+00

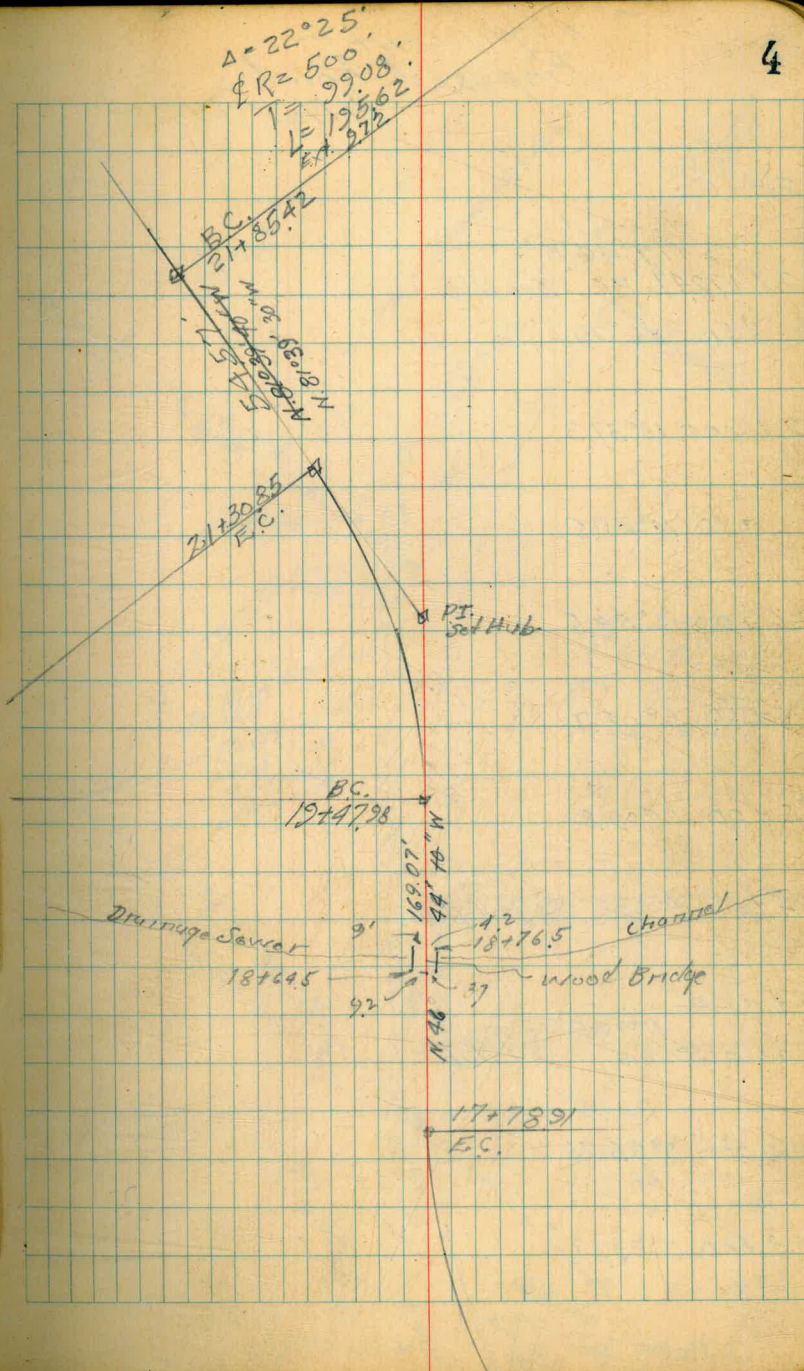
18+00

17+78.91 = E.C. Set Hub

+50

17+00

$\Delta = 34^{\circ}55'30''$
 $R = 300'$
 $T = 94.37'$
 $L = 182.87'$
 $Ext = 14.49'$



Alignment -
Proposed Road -
Filter Plant

28+00

17°46.5'
27+72.47 = E.C. Set Hub
+50 16°29.2'

27+00 13°37.3

+50 10°45.5

26+00 7°53.5

+50 5°01.7

25+00 2°09.8

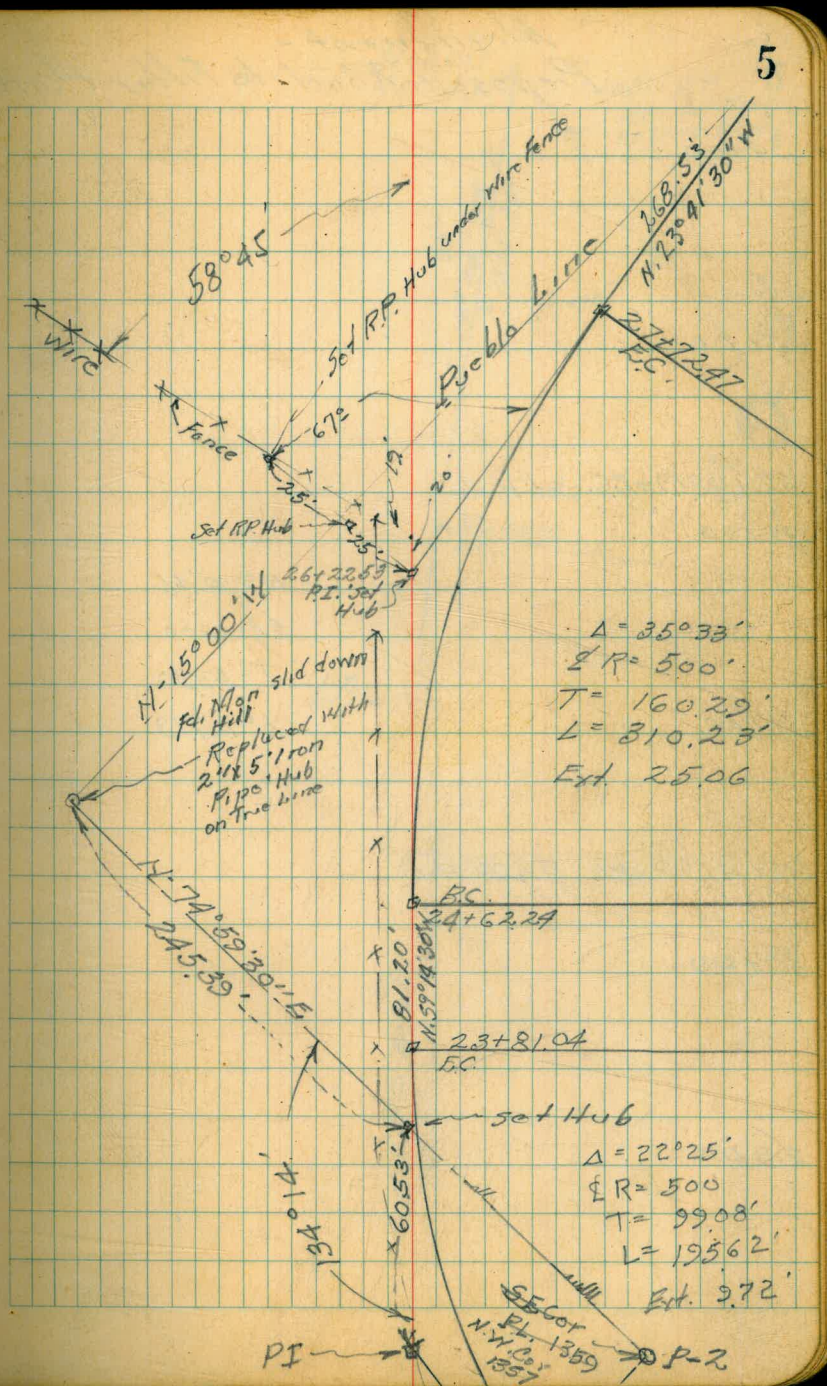
24+62.24 = B.C. Rt. Set Hub

24+00

11°12.5'
23+81.04 = E.C. Set Hub

+50 9°25.75

23+00 6°33.88



~ Alignment -
Proposed Road to Filter Plant

34+00

33+00

32+08.19 = F.C. Set Hub

32+00

750

31+00

30+41.00 = B.C. At Set Hub

30+00

29+00

$\Delta = 9^{\circ} 34' 45''$

$R = 1000'$

$T = 83.90'$

$L = 167.19'$

34+25.03

P.O.T. Hub

40.50' R.P.

Chisled Cross
in Conc. Meter
Box

6

N. 149° 07'

1592.24'

470.10'

32+08.19

F.C.

P.O.T.
Set Hub

B.C.

30+41.00

N. 239° 41' 30" W.

268.53'



Sorrento
Water
Tank
#715553

Slight
North edge
of Water Tank

Alignment ~
Proposed Road to Filter
Plant

Stations

40+00

39+00

38+00

37+00

36+00

35+00

7

07'
N. 14° 06' 55" W.

36+00 = P.O.T.
Set Per. Stake

Alignment -
Proposed Road to Filter Plant

750 1°25.2

46+00.43 = B.C.H.

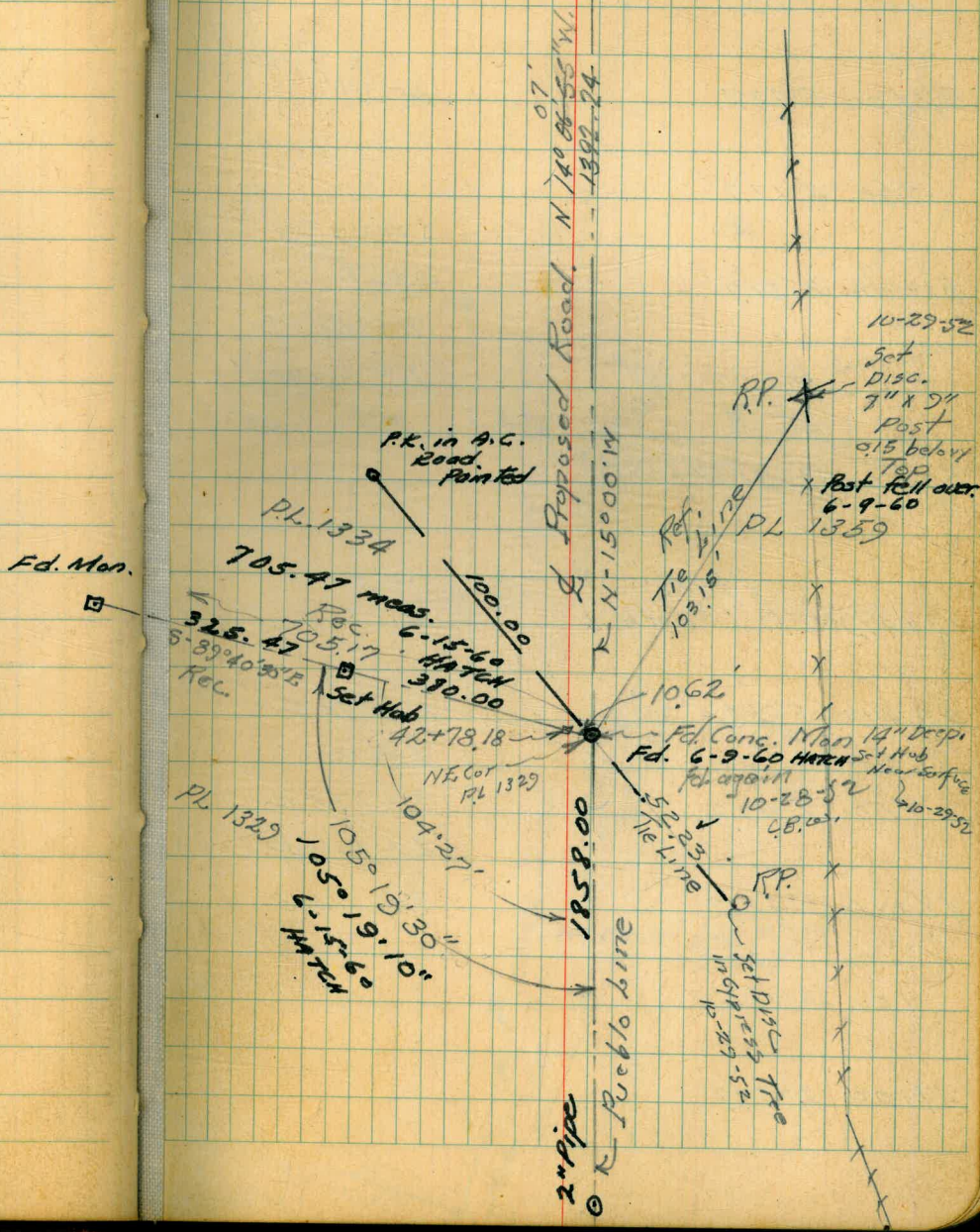
45+00

44+00

43+00 = Intersection Pueblo Line
42+78.18 = P.O.T. Set Hub

42+00

41+00



Alignment Proposed
Road to Filter Plant

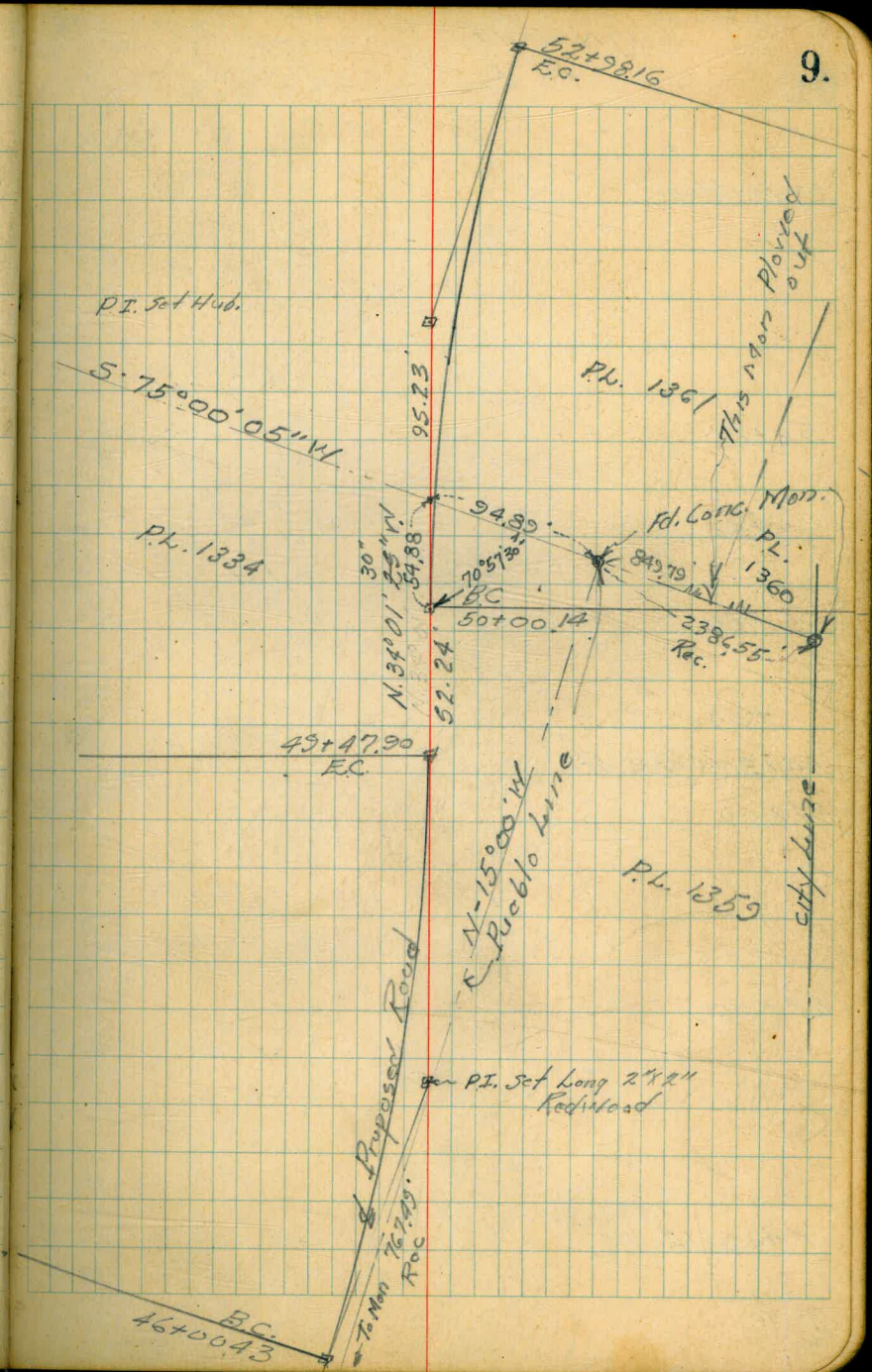
+50 7°09.7'
52+00 5°43.7'
+50 4°17.7'
51+00 2°31.7'
+50 1°25.7'
50+00 14° BC. Pt.
9°57.25'
49+47.90 EC. Set Hub
49+00 8°25.2'
+50 7°09.2'
48+00 5°43.2'
+50 4°17.2'
47+00 2°51.2'

Fd. Conc. Mon.
SW Cor. PL. 1361

$\Delta 17^{\circ}04'30''$
 $R=1000'$
 $T=150.11'$
 $L=298.02'$
 $Ext.=11.20'$

$\Delta 19^{\circ}54'30''$
 $R=1000'$
 $T=175.50'$
 $L=347.47'$
 $Ext.=15.13'$

9.



"Alignment - Proposed Road
to Filter Plant"

57+21.87-EC

57+00

56+00

+50

55+00

+50

54+30.66=BC Lt

54+00

53+00

8° 32.25'
52+98.16-EC

$$\Delta = 27^{\circ} 48' 30''$$

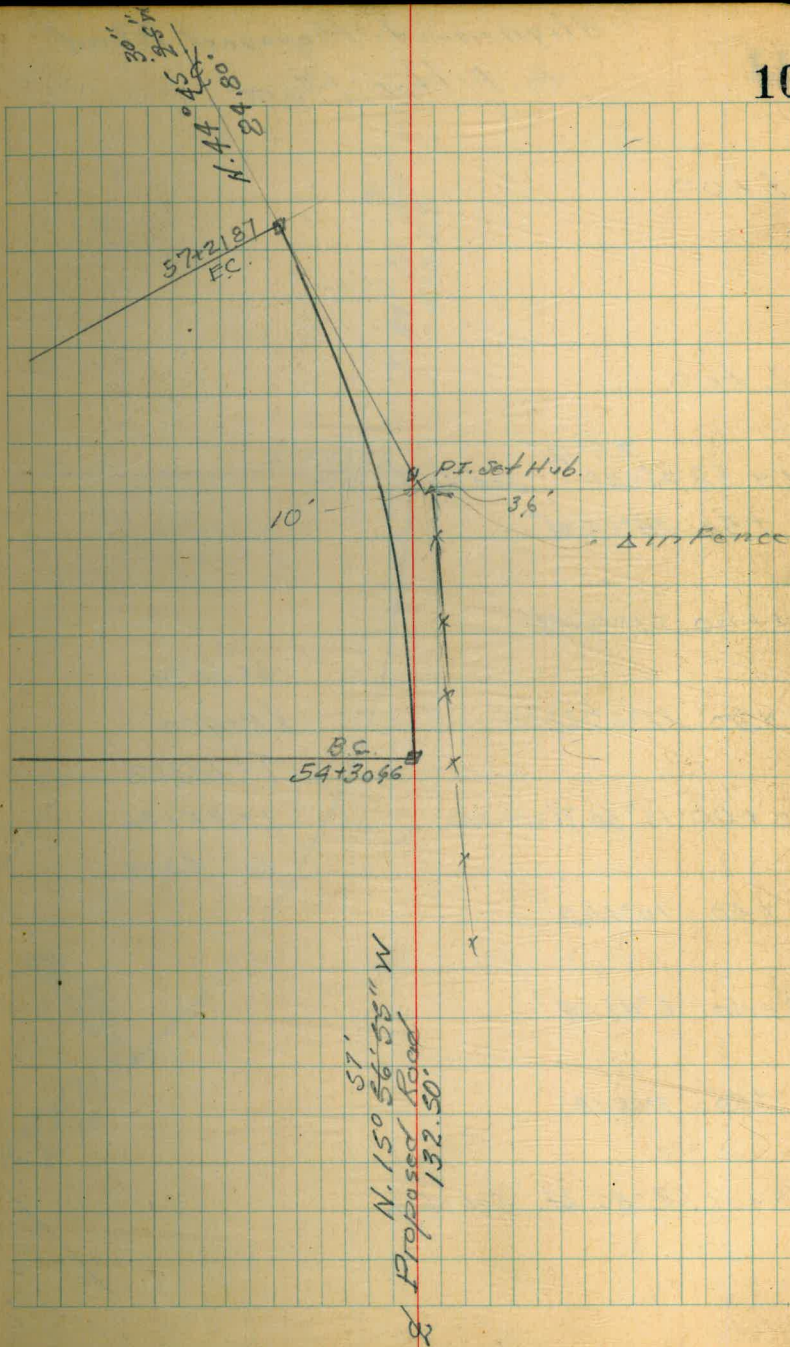
$$R = 600'$$

$$T = 148.53'$$

$$L = 291.21'$$

$$Ext. = 1811''$$

10



Alignment - Proposed Road
to Filter Plant

63+00

62+00

61+58.53 = F.C. Set Hub

+50 24°35.34'

61+00 21°00.48'

+50 17°25.62'

60+00 13°50.76'

+50 10°15.9'

59+00 6°41.04'

+50 3°06.18'

58+06.67 = B.C. Lt. Set Hub

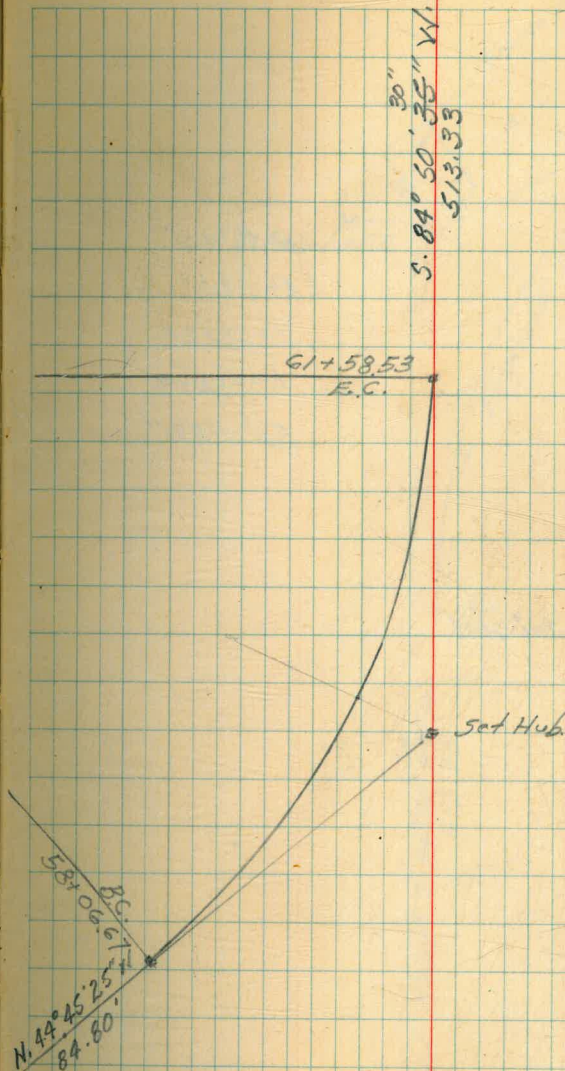
$\Delta = 50^{\circ}24'$

$R = 400'$

$T = 188.22'$

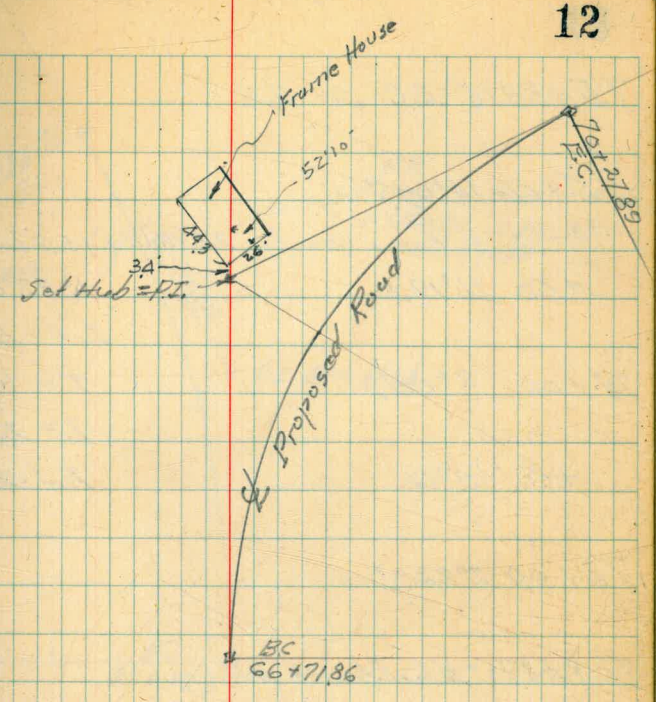
$L = 351.86'$

Ext. 42.57'



"Alignment - Proposed Road
to Filter Plant

750	24°31.06'	
69+00	20°06.62'	
750	15°42.18'	$\alpha = 62°46'$
		$R = 325'$
68+00	11°17.74'	$T = 198.25$
		$L = 356.03$
750	6°53.3'	$E_{xt} = 5570'$
67+00	2°28.86'	
66+71.86	B.C. Pt. Set Hub	
66+00		
65+00		
64+00		



Proposed Road S. 84°50' 30" W
513.33

Proposed Road to Filter Plant

75+38.75 = E.C. Set Hub

75+00 14° 09.7'

74+80 = ^{1300'} Bridge (wood) 8.8 wide x 15.6' long.

750 11° 17.8' $\Delta = 32° 05' 30''$

R = 500'

74+00 8° 05.9'

T = 143.81'

L = 280.95'

750 5° 14'

Ext. 20.27'

73+00 2° 22.07'

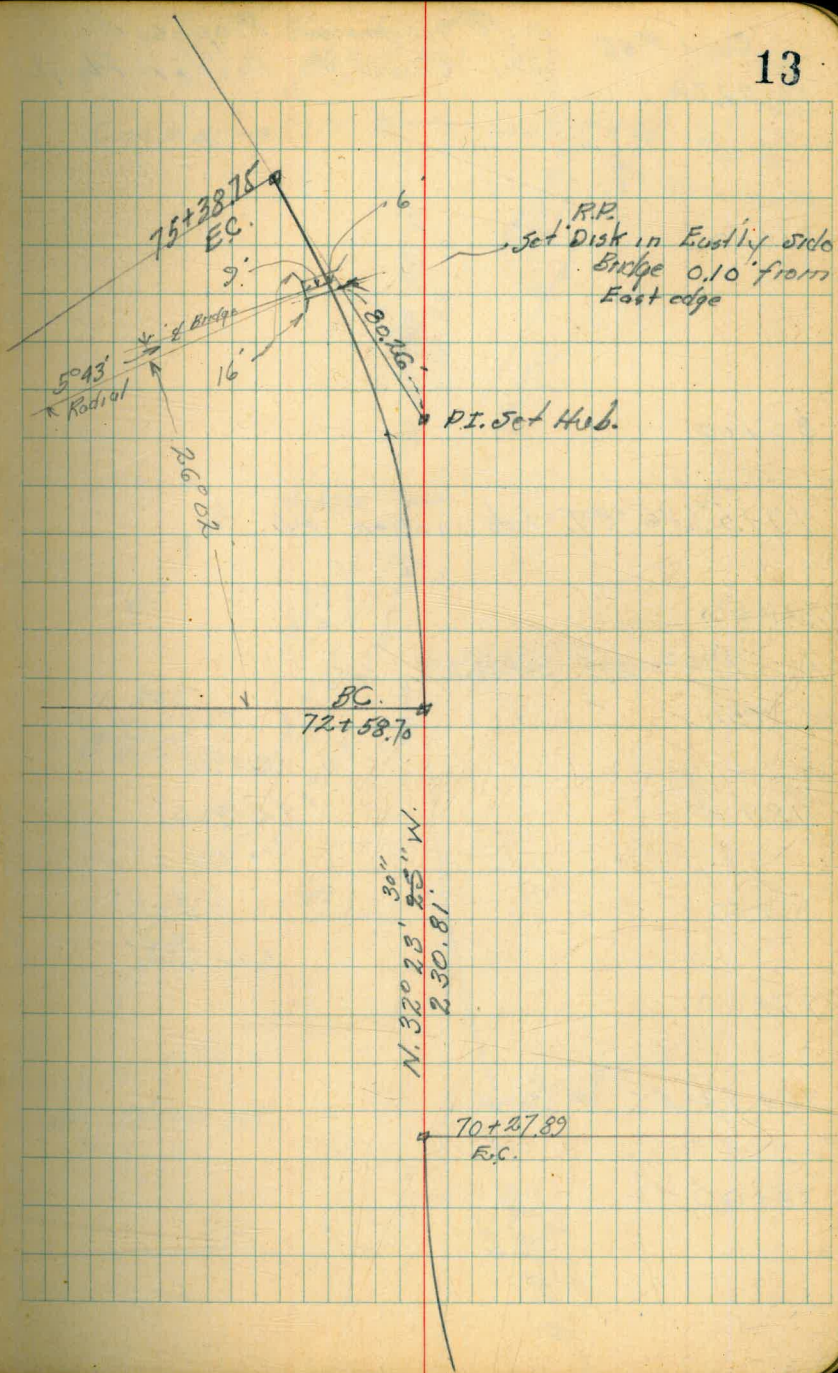
72+58.70 = B.C. L.H. Set Hub

72+00

71+00

70+27.89 = ^{31° 23'} L.C. Set Hub

70+00 28° 55.6'



Cont. P-46

81+77.7

Alignment Proposed Road to Filter Plant

81+00

80+00

79+57.96 = P.O.T. = Intersection Pt.

79+00

78+79.02 = E.C. set Hub.

+50

78+00

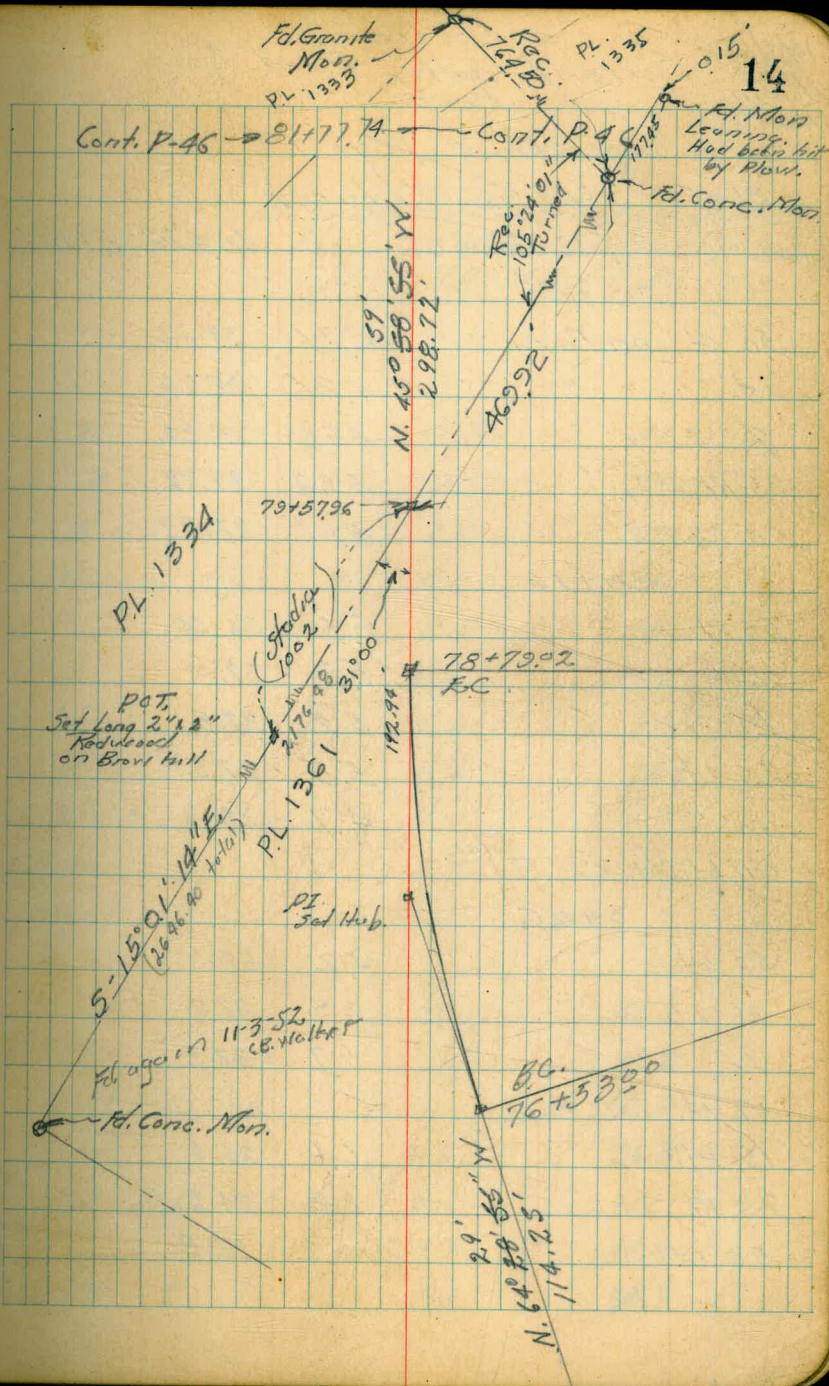
+50

77+00

76+53⁰⁰ = B.C. Pt. set Hub.

76+00

$\Delta = 18^{\circ}30'$
 $R = 700'$
 $T = 114.0$
 $L = 226.02'$
 $E.C. = 9.22'$



Walker. Cross Sections
 Sorrento Fetter Plant Road
 Hudin
 Hurley
 Begg

Location Page 1 -

11-21-45 U.S.G.S. Datum

2.578 43.00 10.422 B.M.

0+00

50' Lt. on Pav. 3.71 39.29

25' " " 4.26 38.74

ℓ " " 4.78 38.22

25' Rt. " " 5.28 37.72

50' Rt. " " 5.61 37.39

0+16

50' Rt. 6.5 36.50

25' " 5.9 37.1

ℓ " 5.2 37.8

25' Lt. 5.5 37.5

50' " 4.7 38.3

61' Lt. (0+14) = Pole^{E/oc.}

0+26

50' Lt. 4.2 38.8

25' Lt. 6.0 37.0

ℓ " 5.7 37.3

17' Rt. = Tel Pole

15' Rt. 6.6 36.4

25' Rt. 8.8 34.2

50' Rt. 10.2 32.8

U.S.G.S. Datum Mon. side Gas Pumps Sorrento
 F. 7.5' Meters SW. Santa Fe Station
 FB. 1440 P-56

43.00

0+50

50' Rt. 11.3 31.7

25' Rt. 7.4 35.6

15' Rt. - Top Slope 7.8 35.2

11' Rt. - edge Rd 6.6 36.4

ℓ " " 6.5 36.5

18' Lt. " " 6.9 36.1

16' Lt. " " 5.2 37.8

25' Lt. 4.2 38.8

33' Lt. = Fence Line

50' Lt. 2.2 40.8

(0+67) 20' Lt. Δ in Fence Line

1+00

50' Lt. 0.9 42.1

25' " 3.8 39.2

21' Lt. = Fence

10' Lt. 6.2 36.8

7' Lt. Edge Rd. 8.0 35.0

ℓ " " 7.7 35.3

18' Rt. " " 7.9 35.7

4300 Filter Plant Road

4300

16

18' Rt.	2.9	33.1
25' Rt.	10.2	32.8
50' Rt.	10.0	33.0
(0+62) 58' Lt. = 18" Pine Tree		
(0+71) 36' Lt. 10" Cedar Tree		
1+50		
50' Rt.	10.8	32.2
25' Rt.	10.8	32.2
19' Rt.	11.0	32.0
14' Lt. = Edge Rd	8.1	34.9
⊥	8.1	34.9
6' Lt. " "	8.3	34.7
8' Lt.	5.6	37.4
21' Lt. = Fence		
25' Lt.	2.9	40.1
50' Lt.	+1.9	44.9
(1+56) 12' Lt. T.I. Pole		
2+00		
50' Lt.	+5.3	48.3
25' Lt.	0.5	42.5
21' Lt. Fence		
17' Lt.	2.7	40.3
6' Lt. Edge Rd	8.3	34.7
⊥	8.2	34.8
12' Rt. " "	7.8	35.2
19' Rt.	11.3	31.7

25' Rt.	11.3	31.7
50' Rt.	10.8	32.2
2+50		
50' Rt.	10.6	32.4
25' Rt.	11.4	31.6
17' Rt.	11.9	31.1
10" Edge Rd	7.5	35.5
⊥	7.9	35.1
8' Lt. " "	8.0	35.0
13' Lt.	2.3	40.7
21' Lt. = Fence		
25' Lt.	+1.4	44.4
50' "	+7.8	50.8
3+00		
50' Lt.	+10.0	53.0
25' Lt.	+1.4	44.4
16' Lt.	1.6	41.4
9' Lt. Edge Rd	8.2	39.8
⊥	7.6	35.4
7' Rt.	7.5	35.5
14' Rt.	12.3	30.7
25' Rt.	11.7	31.3
50' Rt.	11.7	31.3
T.P. 6.76 41.28 8.48 34.52		
3+50		
50' Rt.	2.9	31.4

3+50

41.28

Filter Plant Road

11' Rt	11.1	30.2
5' Rt. Edge Road	6.8	34.5
ℓ	6.6	34.7
11' Lt " "	6.4	34.9
18' Lt	1.0	40.3
21.3 Lt = Fence		
25' Lt	+1.3	42.3
50' Lt	+11.5	52.8
4+00		
50' Lt	+8.5	49.8
25' Lt	0.4	40.9
20.7 Lt = Fence		
16' Lt	3.2	38.1
12' Lt edge Road	7.0	34.3
ℓ	7.2	34.1
5' Rt " "	7.5	33.8
11' Rt	11.0	30.3
25' Rt	10.1	31.2
50' Rt	10.1	31.2
4+50		
50' Rt	10.6	30.7
25' "	10.6	30.7
14' "	11.5	29.8
8' " edge Road	7.4	33.9
ℓ	7.2	34.1
10' Lt " "	7.4	33.9

41.28

17

13' Lt	4.2	37.1
19.8 Lt = Fence		
25' Lt	0.6	40.7
50' Lt	+7.8	49.1
5+00		
50' Lt	+7.0	48.3
25' Lt	0.1	41.2
18.6 Lt = Fence		
9' Lt	4.5	36.8
6' Lt edge Road	7.7	33.6
ℓ	7.5	33.8
12' Rt " "	7.2	34.1
25' Rt	11.6	29.7
50' Rt	10.9	30.4
5+26.51 = 80. Lt		
50' Rt	11.0	30.3
25' Rt	11.7	29.6
22' Rt	11.6	29.7
15' Rt edge Road	7.2	34.1
ℓ	7.5	33.8
ℓ on Hub	7.69	33.59
4' Lt edge Road	7.7	33.6
6' Lt	4.5	36.8
18.1 Lt = Fence		
25' Lt	0.0	41.3
50' Lt	+6.6	47.9

Filter Plant Road

41.28

5+50

50' Lt	+7.2	48.5
25' Lt	+0.9	42.2
16.3' Lt = Fence	7.2	
7' Lt	3.5	37.8
4' Lt edge Road	7.8	33.5
5'	7.7	33.6
16' Rt " "	7.2	34.1
25' Rt	12.0	29.3
50' Rt	10.9	30.4
5+8.3 = bay Fence on Rt	32' Rt of L	
6+00		
50' Rt	11.3	30.0
30.8 = Fence		
29' Rt	12.4	28.9
25' Rt	10.4	30.9
21' Rt = edge Road	7.8	33.5
3' " " "	8.4	32.9
5'	5.3	36.0
8.6' Lt Fence		
25' Lt	+1.1	42.4
50' Lt	+7.6	48.9
6+50		
50' Lt	+6.0	47.3
25' Lt	+0.3	41.6
7.7' Lt = Fence		

6+50

41.28

18

5'	5.1	36.2
4' Rt	5.9	35.4
8' Rt = edge Road	9.2	32.1
26' Rt " "	8.5	32.8
34' Rt	11.9	29.4
35.4' Rt = Fence		
44' Rt	13.5	27.8
50' Rt	12.5	28.8
6+9.8 = L RR Cattle Guard	6.8' x 15' long, 10 rails.	31.4 end 11' Rt. of L.
6+50 38.4' Rt = Δ in Fence		
7+00		
50' Rt.	12.8	28.5
48' "	13.5	27.8
30'	9.6	31.7
26' Rt on Rail Cattle Guard	2.89	31.39 edge Road
11' " " " " "	10.56	30.72 " "
8' Rt	8.1	33.2
3' Rt = Δ in Fence		
5'	6.6	34.7
25' Lt	1.8	39.5
50' Lt	+2.8	44.1
T.P.	2.89	38.51
	5.66	35.62
7+50		
50' Lt	+4.7	42.7
25' Lt	1.2	36.6
16.7' Lt = Fence		

7+50

38.51

7' Lt.	5.8	32.7
5' Lt. = edge Road	8.1	30.4
2	8.1	30.4
8' Rt " "	8.3	30.2
12' Rt	9.0	29.5
21.3' Rt = Fence		
25' Rt	10.3	28.2
35' Rt	9.6	28.9
50' Rt.	10.3	28.2
8+06.4 = 2 RR Cattle Guard	NLY end = 11.5' Lt off 7' x 11' long 12 Rails	
NLY end on Rail	8.23	30.28 edge Road
5 LY " " "	8.22	30.29 " "

8+13.91

50' Rt.	9.6	28.9
25' Rt	10.0	28.5
15.8' Rt. = Fence		
2 on Hub.	9.84	28.67
5' Lt. = edge Rd.	8.1	30.4
21' Lt " "	8.2	30.3
22' Lt	6.9	31.6
25' Lt	6.5	32.0
27.4' Lt = Fence		
38'	4.8	33.7
50' Lt	1.4	37.1

8+50

50' Lt.	3.2	35.3
29' Lt. = Air Fence		
25' Lt	7.7	30.8
20' Lt	8.3	30.2
10' edge Rd	9.4	29.1
5' Lt " "	9.3	29.2
2	10.2	28.3
5' Rt	11.0	27.5
17.4' Rt = Fence		
25' ^{Rt} Lt	9.8	28.7
50' ^{Rt} Lt	9.9	28.6

8+55 Air Fence on Lt. 20' Lt of 2

9+00

50' Rt	10.0	28.5
25' Rt	10.3	28.2
20.3' Rt = Fence		
12' Rt	11.0	27.5
4' Rt edge Rd	10.1	28.4
2	9.8	28.7
12' Lt " "	9.2	29.3
13'	8.9	30.1
13.7' = Fence		
25' Lt.	6.4	32.1
50' Lt	3.1	35.4

38.51

Filter Plant Road
Sorrento

9+50

50' Lt	3.4	35.1
25' Lt.	6.9	31.6
8.1' Lt. = Fence		
7' Lt.	8.3	30.2
6" edge Road	9.3	29.2
8	9.8	28.7
10' R " "	10.5	28.0
22.7' Lt. = Fence		
2.5' Lt.	10.6	27.9
50' Lt.	10.6	27.9

10+00

50' Lt.	10.6	27.9
2.5' Lt. = Fence	10.6	27.9
14' Lt. = edge Road	10.1	28.4
8	10.0	28.5
1' Lt. " "	9.9	28.6
2' Lt.	9.3	29.2
2.8' Lt. = Fence		
2.5' Lt.	7.1	31.4
50' Lt.	4.7	33.8

10+50

50' Lt.	5.7	32.8
2.5' Lt.	7.8	30.7
1.3' Lt. = Fence	9.2	29.3
8 edge Road	9.5	29.0

38.51

20

14' Rt. = edge Road	9.8	28.7
27.3' Lt. = Fence	10.1	28.4
50' Lt.	11.0	27.5
Fence Lowses Road on Rt. to S. West.		
10+74 = Δ in Fence on Rt	29.7' Lt.	
	11+00	
50' Rt	10.5	28.0
46.3' Lt. = Fence		
25' Rt	9.4	29.1
14' Lt. edge Road	8.9	29.6
1' " " "	8.8	29.7
8	8.4	30.1

12' Lt. = Fence		
25' Lt.	6.8	31.7
50' Lt.	4.8	33.7
7' Lt. 12.55	45.44	5.62
	32.89	
	11+50	

50' Lt.	9.6	35.8
2.5' Lt.	11.4	34.0
1.2' Lt. = Fence		
8	12.3	33.1
2' Rt	12.3	33.1
3' Lt. edge Road	13.6	31.8
16' " " "	14.1	31.3
25	14.3	31.1
50' Lt.	16.3	29.1

Filter Plant Road

45.44

12+00

50' Rt.	13.9	31.5
25' Rt.	11.6	33.8
17' Rt = edge Road	11.4	34.0
3' " " "	12.2	33.2
2 " " "	10.2	35.2
2	10.1	35.3
14' Lt = Fence		
25' Lt	8.3	37.1
50' Lt	5.8	39.6

12+50

50' Lt	1.9	43.5
25' Lt	5.1	40.3
11' Lt = Fence		
6	7.4	38.0
3' Rt	7.5	37.9
4' " edge Road	2.1	36.3
18' Rt " "	8.9	36.5
25' Rt	2.0	36.4
50' "	11.2	34.2

13+00

50' Rt.	2.5	35.9
25' Rt.	7.2	38.2
18' Rt = edge Rd	6.6	38.8
4' " " "	6.6	38.8
3' "	4.9	40.5
2	4.6	40.8

13+00

45.94

21

12' Lt = Fence

25' Lt.	2.3	43.1
50' Lt.	70.8	46.2

13+50

50' Lt	+1.4	46.8
25' Lt.	1.8	48.6
14' Lt. = Fence		
2	4.2	41.2
3' Rt.	4.3	41.1
4' " edge Rd	5.2	40.2
19' " " "	5.9	39.5
25'	6.4	39.0
50'	8.7	36.7

13+77

50' Rt	10.7	34.7
25' Rt.	8.9	36.5
19' Rt edge Rd.	6.1	39.3
4' " " "	5.6	39.8
3'	4.8	40.6
2	4.6	40.8
25' Lt.	2.1	43.3
50' Lt	70.8	46.2

14+00

50' Lt.	+1.2	46.6
25' Lt.	2.2	43.2
13' Lt = Fence		
2	4.2	41.2

4544

Filter Plant Road

2' Rt.	4.3	41.1
3' Rt. = edge Rd.	5.5	39.9
18 " " "	5.9	39.5
20' "	5.9	39.5
23' Rt.	6.7	38.7
25' Rt.	6.8	38.6
50' Rt.	9.2	36.2

14+50

50' Rt.	6.4	39.0
25' Rt.	4.6	40.8
19' Rt.	3.7	41.7
18' Rt. = edge Rd.	4.2	41.2
3' Rt. " "	4.2	41.2
2' Rt.	2.4	43.0
Σ	2.2	43.2
25' Lt.	+0.6	46.0
50' Lt.	+4.5	49.9

15+00

50' Lt.	+5.8	51.2
25' Lt.	+1.8	47.2
Σ	1.0	44.4
14' Lt. Fence		
2' Rt.	1.2	44.2
3' Rt. edge Rd.	2.9	42.5
16' Rt. " "	3.1	42.3
18' R	2.6	42.8

4544

22

25' Rt.	3.5	41.9
50' "	5.3	40.1
15+34.71 = B.C. Rt.		
50' Rt.	7.0	38.4
25' Rt.	5.3	40.1
18' " edge Rd.	4.0	41.4
2' Rt. " "	3.6	41.8
1' "	2.2	43.2

T.P. 672
Σ on Hub ⁵⁰ 49.01 ³ 2.15 42.29

1.7' Lt. Fence		
25' Lt.	3.4	46.6
50' Lt.	+0.6	50.6

15+50

50' Lt.	+0.8	50.8
25' Lt.	3.6	46.4
2.1' Lt. Fence		
Σ	6.9	43.1
1' Rt.	6.9	43.1
2' Rt. edge Rd.	8.2	41.8
15' Rt. " " edge Bean Field	8.6	41.4
25' Rt. in Bean Field	9.4	40.6
50' " " "	9.5	40.5

16+00

50' Rt. in Bean Field	9.8	40.2
25' " " "	8.7	41.3
8' " edge Rd in " "	8.0	42.0

2		8.2	41.8
7' Lt. edge Rd		8.2	41.8
8' Lt.		7.2	41.8
10.3' Lt. = Fence			
25' Lt.		5.9	44.1
50' Lt.		0.0	50.0
16+50			
50' Lt.		4.5	45.5
29.1' Lt. = Fence			
25' Lt.		6.8	43.2
23' Lt. edge Rd		7.8	42.2
2' " " edge B. Field		7.3	42.7
25' Rt. in Bears Field		8.6	41.4
50' " " " "		2.5	40.5
17+00			
50' Rt. in Bears Field		8.8	41.2
25' " " " "		8.5	41.5
2' " " " "		7.5	42.5
5' Lt. edge Rd.		7.3	42.7
25' "		6.2	43.8
29' " " "		6.2	43.8
34.5' Lt. = Fence			
50' Lt.		4.7	45.3
17+50			
50' Lt.		4.2	45.8
25' Lt. = Fence		5.5	44.5

15' Lt. edge Rd	5.9	44.1
2' = edge Rd = edge B. Field	6.3	43.7
25' Rt. in Bears "	7.5	42.5
50' " " " "	8.3	41.7
17+78.91 = E.S.		
50' Rt. in Bears Field	8.0	42.0
25' " " " "	6.9	43.1
2' = edge Rd. in " "	5.94	44.07 on Hub.
13' Lt. " "	5.7	44.3
14' Lt.	5.2	44.8
24.7' Lt. = Fence		
25' Lt.	4.7	45.3
50' Lt.	3.4	46.6
18+00		
50' Lt.	3.1	46.9
25' Lt. = Fence	4.4	45.6
13' Lt.	4.8	45.2
12' Lt. edge Rd.	6.0	44.0
2' = " " = edge B. Field	6.0	44.0
1' Rt. in B. Field	5.5	44.5
25' Rt. " "	7.1	42.9
50' " " "	8.0	42.0
18+50		
50' Rt. in B. Field	9.5	40.5
25' " " "	7.7	42.3
1' Rt. edge Rd	6.8	43.2
2	6.8	43.2

	50.01 49.01			
18+50				
9' Lt. = edge Rd.	6.8	43.2		
25' Lt.	4.5	45.5		
26.5' Lt. = Fence				
50' Lt.	2.9	47.1		
chk. stake 37+00	4.66	45.35	Moore's Sawyer Survey	
18+64.5 on Bridge Deck	6.68	43.33		
18+76.5 " " " 4' wide	6.65	43.36		
18+70 in channel	12.5	37.5	5' Lt of L	
" " "	10.8	39.2	10' Lt	
J.P. 3.31 46.10	6.22	42.79	07 B.C. Hub 19+47.28	
19+00				
50' Lt.	0.6	46.5		
25' Lt.	1.7	45.4		
27.6' Lt. = Fence				
2' Lt.	2.4	44.7		
8' Lt edge Rd.	4.0	43.1		
L	4.0	43.1		
4' " " B Field	4.0	43.1		
25' Rt.	6.1	41.0		
50' "	7.0	40.1		
19+47.28 = B.C. Lt.				
50' Rt in Bear Field	6.9	40.2		
25' Rt.	4.6	42.5		
5' Rt. edge Rd " "	3.4	43.7		
L	3.4	43.7		
L on Hub	3.31	43.8		

	46.10	Filter Plant Road	24
8' Lt. = edge Rd	2.8	44.3	
25' Lt.	1.5	45.6	
28.6' Lt. = Fence			
50' Lt.	0.2	46.9	
19+65 = L in Fence	28.8	46.9	
20+00			
50' Lt.	0.4	46.7	
25' Lt.	2.1	45.0	
20' Lt. = Fence			
15' Lt.	3.4	43.7	
4' Lt. edge Rd	3.6	43.5	
L	3.6	43.5	
12' Rt. = edge Rd = edge B Field	3.5	43.6	
25' Rt in Bear Field	4.5	42.6	
50' Rt in " "	6.6	40.5	
20+50			
50' Rt in B Field	6.8	40.3	
25' " " "	5.3	41.8	
19' Rt = edge Rd = B "	5.2	41.9	
4' " " "	5.7	41.4	
L	2.5	44.6	
2.1' Lt. = Fence			
25' Lt.	+7.6	54.7	
28' Lt.	+8.5	55.6	
50' Lt.	+12.5	59.7	

48.10

21+00

50' Lt	+14.0	61.1
25' Lt	+4.6	51.7
44' Lt = Fence		
L	5.3	41.8
2' Rt	6.0	41.1
3' " = edge Rd.	8.8	38.3
15' Rt " " = edge B. Field	7.8	39.3
25' Rt, in B. Field	8.0	39.1
50' Rt " " "	2.5	37.6

21+30.85 = E.C.

50' Rt in Bean Field	11.0	36.1
25' Rt " " "	10.0	37.1
12' " = edge Rd ^{edge} B. Field.	9.6	37.5
L on Hub. = edge Rd.	10.56	36.54
1' Lt.	9.1	38.0
6.4' Lt = Fence		
25' Lt.	+1.6	48.7
50' Lt.	+13.0	60.1

21+50

50' Lt.	+12.2	59.3
25' Lt	0.4	46.7
6.6' Lt. = Fence		
2' Lt	9.9	37.2
1 Lt. = edge Rd.	11.3	35.8
d	11.2	35.9

21+50

48.10

Filter Plant Road

25

12' Rt. = edge Rd. = edge B. Field	10.5	36.6
25' Rt in B. Field	10.7	36.4
50' " " "	12.0	35.1
21+85.92 = E.C. Rt.		
50' Rt in Bean Field	13.6	33.5
25' " " " "	12.4	34.7
10' Rt. = edge Rd. = edge B. Field	12.0	35.1
d on Hub.	12.58	34.92
4' Lt. = edge Rd.	12.5	34.6
5' Lt.	11.7	35.4
6.8' Lt. = Fence		
10' Lt.	10.6	36.5
25' Lt.	4.0	43.1
50' Lt.	+10.0	57.1
T.P. 3.21	4X.16 ²	8.15 ⁸
22+50		
50' Lt	+5.5	47.7
25' Lt.	5.6	36.6
12.2' Lt. = Fence		
10' Lt.	8.2	39.0
9' d = edge Rd	9.1	33.1
1/4	9.4	32.8
5' Rt. " " = edge B. Field	9.4	32.8
25' Rt in B. Field	9.8	32.4
50' Rt. " " "	9.9	32.3

2
4x16

Filter Plant Road

23+00

50' Rt.	10 Beans Field	11.8	30.4
25' "	" " "	11.5	30.7
3' "	edge Rd = edge "	11.6	30.6
∠		11.6	30.6
13' Lt.	" "	11.0	31.2
14' Lt.		10.9	31.8
15.1' Lt.	= Fence		
25' Lt.		4.5	37.7
50' Lt.		+9.4	51.6

23+50

50' Lt.		+9.4	51.6
25' Lt.		4.4	37.76
15.9' Lt.	= Fence		
14' Lt.		11.7	30.5
13' Lt.	edge Rd	12.6	29.7
∠	" " = edge B. Field	12.9	29.3
25' Rt.	10 Beans Field	13.3	28.86
50' "	" " "	14.3	27.9
T.P.	9.48	^B 37.33	^B 13.31

23+81.04 = E.C.

50' Rt.		11.0	27.3
25' Rt.		10.0	28.3
∠	= edge Rd = edge B. Field	9.5	28.8
13' Lt.	" "	9.3	29.0
14' Lt.		7.5	30.8
15.2' Lt.	= Fence		

3733

Filter Plant Road

26

18' Lt.		6.1	32.23
25' Lt.		4.6	33.7
50' Lt.		+16.2	54.5
	24+25		
50' Lt.		+19.8	53.1
25' Lt.		2.8	35.5
15.1' Lt.	= Fence		
18' Lt.		7.5	30.8
13' Lt.		8.5	29.8
12' Lt.	= edge Rd	10.7	27.6
∠	" " = edge B. Field	10.4	27.9
25' Rt.		11.2	27.1
50' Rt.		11.9	26.4
	24+62.74 = B.C. Pt.		
50' Rt.		13.0	25.3
25' "		12.0	26.3
∠ on Hub	= Edge Rd	11.41	26.92
13' Lt.	= edge Rd	11.4	26.9
14' Lt.		10.1	28.2
15.6' Lt.	= Fence		
18' Lt.		8.8	29.5
26' Lt.		5.5	32.8
50' Lt.		+7.8	46.1
	25+00		
50' Lt.		+7.8	46.1
25' Lt.		5.8	32.5

38⁹33 Filter Plant Road

18' Lt.	8.9	29.4
16.5' Lt. = Fence		
15' Lt.	9.8	28.5
14' Lt. = edge Rd.	11.6	26.7
♀ " "	11.9	26.4
25' Rt.	12.7	25.6
50' Rt.	13.6	24.7
25+50		
30' Rt.	13.5	24.8
25' "	13.0	25.3
♀	11.5	26.8
4' Lt. = edge Rd.	11.2	27.1
20' " " "	10.3	28.0
22.7 = Fence		
21' Lt.	9.7	28.6
25' Lt.	9.1	29.2
50' Lt.	0.3	38.0
26+00		
50' Lt.	4.0	34.3
33.8 = Fence		
34' Lt.	8.1	30.2
25' Lt. = edge Rd.	11.3	27.0
6' Lt. " "	11.6	26.7
♀ in B. Field	11.9	26.4
25' Rt.	12.6	25.7
50' "	13.2	25.1

38⁹33 Filter Plant Road

26+50		
27		
50' Rt.	12.8	25.5
25' Rt.	12.0	26.3
3' Rt. = Edge Rd.	11.3	27.0
♀	11.2	27.1
15' Lt. " "	10.5	27.8
25' Lt.	9.7	28.6
50' Lt.	7.7	30.6
Note: 26+50 to 40+75 = Bean Field on Each Side of Road.		
27+00		
50' Lt.	0.6	37.7
25' Lt.	4.8	33.5
2' Lt.	9.0	29.3
♀	10.3	28.0
1' Rt. = Edge Rd.	12.0	26.3
15' Rt. " "	12.1	26.2
25' "	12.8	25.5
50' Rt.	13.5	24.8
27+50		
50' Rt.	13.6	24.7
25' Rt. = Edge Rd.	12.8	25.5
12' " " "	12.6	25.7
♀	11.6	26.7
25' Lt.	8.8	29.5
50' Lt.	4.9	33.4

27+72.47 = E.G.

50' Lt.	8.2	30.1
25' Lt.	10.4	27.9
L	11.6	26.7
L on Hub on Disk	12.10	26.23
15' Rt = edge Rd	12.6	25.7
25' Rt	12.7	25.6
27' " "	12.7	25.6
50' "	13.7	24.6

28+00

50' Rt.	13.6	24.7
25' " edge Rd.	12.5	25.8
15' " " "	12.3	26.0
14' L	11.8	26.5
L	11.4	26.9
25' Lt.	10.2	28.1
50' Lt.	8.9	29.4

28+50

50' Lt.	9.8	33.5
25' Lt.	10.7	27.6
19' "	11.4	26.9
L	12.1	26.2
15' Rt.	12.4	25.9
16' Rt edge Rd.	12.7	25.6
25' "	13.2	25.1
27' " " "		
50' "	13.5	24.8

29+00

50' Rt.	13.5	24.8
26' Rt edge Rd	12.6	25.7
16' " " "	12.5	25.8
L	10.0	28.3
25' Lt.	2.7	35.6
50' Lt.	+2.6	40.9

29+50

50' Lt.	+1.4	32.7
25' Lt.	4.5	33.8
L	10.8	27.5
15' Rt = edge Rd	12.1	26.2
25' " " "	12.1	26.2
50' "	13.0	25.3

T.P. 13.00 ⁴⁰ 29.49 10.84 26.49 ^{on Hub Rd.} 30+41.00

30+00

50' Rt.	14.5	26.00
25' Rt edge	13.9	26.6
15' " " "	14.0	26.5
L	13.5	27.00
25' Lt.	11.6	28.9
38' "	2.3	31.2
50' "	5.7	34.8

30+41 = B.C. Rt.

50' Lt.	9.5	31.0
25' Lt.	11.4	29.1

5049
40'

ℓ		12.6	27.9
12' Rt.	edge Rd	13.2	27.3
21' "	" "	13.3	27.2
25' "		13.3	27.2
50' Rt.		14.1	26.4
	31+00		
50' Rt.		13.2	27.3
25' "		12.1	28.4
18' "	Edge Rd.	12.2	28.3
9' "	" "	12.2	28.3
ℓ		12.0	28.5
25' Lt.		11.2	29.3
50' Lt.		10.3	30.2
	31+50		
50' Lt.		10.0	30.5
25' Lt.		10.5	30.0
ℓ		10.7	29.8
1' Rt.	= edge Rd	11.0	29.5
12' "	" "	10.4	30.1
13' "		10.1	30.4
14' "		10.3	30.2
25' "		11.3	29.2
50'		11.5	29.0
	32+08.9 = E.C.		
50' Rt.		10.1	30.4
25' Rt.		8.9	31.6

5049
40'

Filter Plant Road

29

11' Rt.		8.3	32.2
8' Rt.	Edge Rd	8.7	31.8
ℓ		8.6	31.9
ℓ	conturb.	8.83	31.66
3' Lt.	= edge Rd	8.6	31.9
25' Lt.		8.1	32.4
50' Lt.		8.0	32.5
	32+50		
50' Lt.		6.2	34.3
25' Lt.		6.5	34.0
5' Lt.		6.9	33.6
4' Lt.	edge Rd	7.1	33.4
ℓ		7.3	33.2
7' Rt.	" "	7.7	32.8
8' "		7.2	33.3
25' Rt.		8.2	32.3
50' Rt.		9.2	31.3
	33+00		
50' Rt.		8.7	31.8
25' Rt.		6.6	33.9
8' Rt.		5.9	34.6
7' Rt.	edge Rd	6.3	34.2
ℓ		6.3	34.2
4' Lt.	" "	6.3	34.2
5' Lt.		5.8	34.7
25' Lt.		5.2	35.3
50' Lt.		4.2	36.3

3349
40

33+50

50' Lt	2.2	38.3
25' Lt	3.5	37.0
5' Lt	4.3	36.2
4' " edge Rd	4.2	35.6
2	4.9	35.6
8' Rt. " "	4.9	35.6
9' "	4.3	36.2
25' "	5.5	35.0
50' "	7.3	33.2

34+00

50' Rt	6.4	34.1
25' "	4.5	36.0
12' "	3.4	37.1
11' Rt = edge Rd	3.8	36.7
2	3.8	36.7
2' Lt. " "	3.8	36.7
3' "	3.1	37.4
25' "	1.5	39.0
50' Lt	0.0	40.5

34+55

50' Lt	0.8	39.7
25' "	1.7	38.8
2	2.5	38.0
1' Rt. = Edge Rd	3.1	37.4
14' " " "	3.0	37.5

3349
40

Filter Plant Road

30

15' Rt.	2.6	37.9
25' "	3.8	36.7
50' "	5.9	34.6

35+00

50' Rt	5.9	34.6
25' "	4.1	36.4
16' " edge Rd	3.1	37.4
4' Rt. " "	3.1	37.4
3' "	3.5	38.0
2	2.4	38.1
25' Lt	1.6	38.9
50' Lt	0.1	40.4

35+50

50' Lt.	11.0	41.5
25' Lt.	0.3	40.2
2	1.3	39.2
6' Rt.	1.5	39.0
7' " edge Rd.	1.9	38.6
19' " " "	2.5	38.0
20' "	2.1	38.4
25' "	2.7	37.8
50' Rt.	4.9	35.6

36+00

50' Rt.	5.3	35.2
25' Rt.	3.6	36.9
21' " edge Rd.	2.9	37.6
8' " " "	2.1	37.8

3999
40

L		2.1	38.4
"	Pos. Stake	2.58	37.91
25' Lt.		1.3	39.19
50' Lt.		+1.0	41.49
	36+50		
50' Lt.		+0.1	40.6
25' Lt.		1.2	38.6
L		3.1	37.4
8' Rt.		3.1	37.4
9' "	Edge Rd.	4.3	36.2
21' "	" "	4.5	36.0
25' "		4.7	35.8
50' Rt.		6.6	33.9
T.P.	2.51 ⁸ 37.41	4.59 ⁵	37.90
	37+00		
50' Rt.		5.9	32.5
25' Rt.		3.9	34.5
21' "	edge Rd.	3.7	34.7
9' "	" "	3.1	35.3
8' "		2.5	35.9
L		2.2	36.2
25' Lt.		0.9	37.5
50' Lt.		+0.8	39.2
	37+50		
50' Lt.		0.7	37.7
25' Lt.		2.4	38.0

3741
8Filter Plant
Road

31

L		3.9	34.5
7' Rt.		4.2	34.2
8' Rt. = edge Rd.		4.7	33.7
19' "	" "	5.1	33.3
25' Rt.		5.1	33.3
50' "		7.0	31.4
	38+00		
50' Rt.		8.7	29.7
25' "		6.6	31.8
20' "		6.6	31.8
19' "	edge Rd.	7.0	31.4
7' "	" "	6.6	31.8
6' "		6.0	32.4
L		5.8	32.6
25' Lt.		4.4	34.0
50' Lt.		2.5	35.9
	38+50		
50' Lt.		5.0	33.4
25' Lt.		6.5	31.9
L		7.6	30.8
6' Rt.		8.0	30.4
7' Rt. edge Rd.		8.4	30.0
18' "	" "	8.8	29.6
25' "		9.2	29.2
50' Rt.		11.1	27.3

39+00

50' Rt.	12.5	25.9
25' "	10.5	27.9
17' " - edge Rd.	10.4	28.0
5' "	9.8	28.6
4' "	9.2	29.2
L	9.2	29.2
25' Lt.	8.2	30.2
50' Lt.	7.4	31.0

39+50

50' Lt.	9.2	29.2
25' Lt.	10.0	28.4
L	10.7	27.7
3' Rt.	10.9	27.5
4' " edge Rd	11.4	27.0
17' " " "	11.8	26.6
25' "	11.9	26.5
50' Rt.	14.0	24.4

40+00

50' Rt.	15.4	23.0
25' "	13.8	24.6
16' " - Edge Rd.	13.0	25.4
4' " " "	12.9	25.5
3' "	12.3	26.1
L	12.4	26.0
25' Lt.	11.7	26.7
50' "	10.7	27.7

40+50

50' Lt.	10.8	27.6
25' Lt.	12.7	26.7
L - edge Rd.	14.1	24.3
15' Rt. " "	14.4	24.0
25' Rt.	15.2	23.2
50' Rt.	16.2	22.2

41+00

50' Rt.	17.2	21.2
25' "	15.6	22.8
14' Rt. - edge Rd.	14.9	23.8
L " "	14.9	23.5
25' Lt.	8.0	30.4
50' Lt.	0.8	37.6
T.P. 660 ³ 37.54	11.47	27.94

41+50

50' Lt.	+12.0	45.5
25' Lt.	0.2	33.3
2' Lt.	9.1	24.4
L - edge Rd.	10.5	23.0
14' Rt. " "	10.7	22.8
25' Rt.	11.7	21.8
50' Rt.	13.5	20.0

42+00

50' Rt.	13.5	20.0
25' Rt.	12.3	21.2

3³
32.54

15' Rt. = edge Rd.	10.4	23.1
Σ	10.7	23.3
2' Lt. " "	10.2	23.3
6' Lt.	6.9	26.6
25' Lt.	+1.0	34.5
50' Lt.	+13.9	47.4
42+50		
50' Lt.	+12.9	46.4
25' Lt.	+7.2	40.7
19' Lt.	+4.7	38.2
6' Lt.	4.2	29.3
5' Lt. edge Rd.	8.0	25.5
Σ	8.0	25.5
13' Rt. " "	8.3	25.2
16' Rt.	9.8	23.7
25' Rt.	10.7	22.8
50'	13.0	20.5
Let H. B.M. on Marr.	7.05	26.49
43+00		
50' Rt.	11.6	21.9
25' Rt.	8.5	25.0
15' R.	7.7	25.8
11' Rt. = edge Rd.	5.1	28.4
Σ	5.2	28.3
9' Lt. " "	5.4	28.1
10' "	2.1	31.3
25' Lt.	+0.8	34.3
50' Lt.	+5.4	38.9

P.L. Cor.

3³
32.54Filter Plant
Road

33

T.P. 276	31.25	7.05	28.49
43+50			
50' Lt.		+4.9	141.1
25' Lt.		2.7	33.5
12' Lt.		5.8	30.4
11' Lt. = edge Rd.		7.0	29.2
Σ		7.3	29.0
6' Rt. " "		7.5	28.7
10' Rt.		10.0	26.2
25' "		11.3	25.0
50' Rt.		14.1	22.1
44+00			
50' Rt.		15.8	20.4
25' "		13.9	22.3
16' Rt.		12.3	23.0
5' " = edge Rd.		7.0	29.3
Σ		6.7	30.0
10' Lt. " "		6.1	30.1
12' "		2.7	33.5
25' "		+5.1	41.3
53' Lt.		+23.0	59.2
44+50			
66' Lt.		+37.5	73.7
37' Lt.		+18.2	54.4
17' Lt.		+5.1	41.3
8' Lt.		1.8	34.4

34.25

7' Lt. = edge Rd.	5.2	31.0
8	5.2	31.0
7' Rt. " "	5.4	30.8
22' Rt.	15.0	21.2
25' Rt.	15.0	21.2
50' Rt.	16.6	19.6
45+00		
50' Rt.	17.4	18.8
45.7' Rt. = Fence		
25' Rt.	15.3	20.9
22' "	15.3	20.9
7' Rt. = edge Rd.	7.7	28.5
8	7.6	28.6
7' Lt. " "	7.8	28.4
8' Lt.	4.5	31.7
28' Lt.	+19.9	56.1
74' Lt.	+43.6	79.8
45+50		
89' Lt.	155.8	92.0
60' Lt.	+27.2	63.4
36' Lt.	+15.5	51.7
19' Lt.	2.1	34.1
10' Lt.	7.1	29.1
9' Lt. edge Rd.	9.8	26.4
8	10.3	26.0
4' Rt. " "	10.5	25.7

35.25 Filter Plant
Road

34

11' Rt.	13.6	22.6
25' Rt.	16.0	20.2
40' Rt. = Fence	17.5	18.7
50' Rt.	17.5	18.7
46+00.43 = B.C. H.		
50' Rt.	18.1	18.1
35" Fence	15.7	20.5
10' Rt.	12.2	24.0
5' Rt. = edge Rd.	9.6	26.6
8 on Hub.	9.59	26.66
13' Lt. = edge "	9.6	26.6
14' Lt.	7.2	29.0
25' Lt.	5.0	31.2
50' Lt.	+7.0	43.2
46+50		
50' Lt.	+10.5	46.7
25' Lt.	0.7	35.5
15' Lt.	3.4	32.8
14' Lt. = edge Rd.	7.4	28.8
8	7.4	28.8
5' Rt. " "	2.5	28.7
13' Rt.	12.4	23.8
25' Rt.	16.0	20.2
31.2' Rt. = Fence		
42' Rt.	17.6	18.6
50' Rt.	17.6	18.6

35.25
6

47+00

50' Rt	17.1	19.1
29.9' Rt. = Fence		
26' Rt.	16.4	19.8
15' Rt.	12.9	23.3
7' Rt. = edge Rd	6.6	29.6
∫	6.7	30.0
12' Lt. " "	6.9	29.3
13' Lt.	4.9	31.3
18' Lt.	1.6	34.6
28' Lt.	+10.5	46.7
53' Lt.	+23.3	59.5
TP	8.36	34.02
	47+50	
50' Lt.	+15.4	50.4
25' Lt.	+2.6	37.6
8' Lt.	6.6	28.4
7' Lt. = edge Rd	8.7	26.3
∫	8.7	26.3
9' Rt. " "	8.9	26.1
15' "	12.5	22.5
25' Rt.	14.8	20.2
29.8' Rt. = Fence		
31' "	16.0	19.0
50' Rt.	17.1	17.9
47+95 = Beg. Fence on Lt.		1' Lt. of ∫

34.02
5Filter Plant
Road

35

48+00

50' Rt	16.7	18.3
38' "	15.9	19.1
32.6' Rt. = Fence		
22' Rt.	12.2	22.8
18' " = Edge Rd	9.6	25.4
∫ " "	9.4	25.6
+4' Fence	8.1	26.9
+25.6' = Fence		
25' Lt.	17	33.3
50' Lt.	+8.0	43.0
	48+50	
50' Lt.	+7.0	42.0
25' Lt.	+2.5	37.5
12.8' Lt. = Fence		
∫	5.4	29.6
9' Rt.	7.4	27.6
10' Rt. = edge Rd	8.9	26.1
25' "	8.8	26.2
26' Rt. " "	8.9	26.1
31' Rt.	10.2	24.8
40' Rt. = Fence		
50' "	15.4	19.6
	49+00	
50' Rt.	13.6	21.4
36' Rt. = Fence		

	49+00	3402 5		
28 Rt.			12.3	22.7
21 Rt. = Edge Rd.			8.9	26.1
4' " "			9.2	25.8
2 Rt.			5.0	30.0
L			4.7	30.3
19.6 Lt. = Fence				
2.5 Lt.			+2.0	37.0
50 Lt.			+8.0	43.0

49+47.90 = EC.

50 Lt.			+10.0	45.0
25 Lt.			0.5	34.5
23.7 Lt. = Fence				
8 Lt.			7.9	27.1
6 Lt. = edge Rd.			10.0	25.0
L			9.9	25.1
L on Hub.			10.13	24.9
11 Rt. = edge Rd.			10.0	25.0
16 "			12.9	22.1
21.5 Rt. = Fence				
25 "			13.1	21.9
50			15.4	19.6

49+88 = Δ in Fence 9 Rt.

50+00.14 = B.C. Rd

50 Rt.			16.4	18.6
25 Rt.			14.9	20.1
12.2 Rt. = Fence				

	3402 5	Filter Plant Road	36
6 Rt.		13.8	21.2
2 Rt. = edge Rd.		11.9	23.6
L on Hub		11.45	23.57
14 Lt. = edge Rd.		11.8	23.2
15 Lt.		7.1	27.9
25 Lt.		1.5	33.5
27.5 Lt. = Fence			
50 Lt.		+13.0	48.0
50+50			
50 Lt.		+13.5	48.5
30 Lt. = Fence			
25 Lt.		2.9	32.1
18 Lt.		6.3	28.7
17 Lt. = edge Rd.		11.1	23.9
L " "		12.0	23.0
2 Rt.		13.8	21.2
24.3 Rt. = Fence		15.0	20.0
50 Rt.		15.9	19.1
51+00			
50 Rt.		16.1	18.9
32.3 " = Fence			
25 Rt.		16.3	18.7
2 Rt.		14.8	20.2
L		13.1	21.9
3 Lt. = edge Rd.		11.7	23.3
18 Lt. " "		11.0	24.0

	51100	3X02 6		
20' Lt.			6.5	28.5
26' Lt.			2.8	32.2
34.3 Lt. = Fence				
51' Lt.			+12.9	47.3
	51+50			
55' Lt.			+4.0	39.0
38.5 Lt. = Fence				
30 Lt.			7.4	27.6
29 Lt. = edge Rd			10.6	24.4
15' Lt. " "			11.5	23.5
10 Lt.			15.0	20.0
5' Lt.			15.4	19.6
20' Rt.			15.6	19.4
			16.5	18.5
28.3 Rt. = Fence				
50' Rt.			16.2	18.8
T.P.	10.66	⁴ 3X.03	11.65	³ 2X.37 <small>on Pt. High. 51+50.25</small>
	52+00			
T.P.	10.80	⁴ 3X.17	10.66	³ 2X.37
50' Rt.			15.4	18.8
25.3 Rt. = Fence				
25'			15.4	18.8
4' Rt.			13.7	20.5
Edge Rd.			10.4	23.8
18' Lt.			2.6	24.6
20' Lt.			5.3	28.9
24.5 Lt. = Fence				

	3817 4	Filter Plant Road	37
25' Lt.		2.2	32.0
50' Lt.		+7.8	42.0
	52+50		
50' Lt.		+7.4	41.6
25' Lt.		0.5	33.7
17.5 Lt. = Fence			
6' Lt.		6.1	28.1
5' Lt. = Edge Rd		10.5	23.7
Edge Rd		10.4	23.8
10' Rt. " "		10.4	23.8
15' Rt.		14.2	20.0
25' Rt.		16.0	18.2
35' Rt. = Fence		15.4	18.8
50' Rt.		15.4	18.8
	52+9815 = EC.		
50' Rt.		16.2	18.0
30' Rt. = Fence		16.2	18.0
25' Rt.		15.2	19.0
17' Rt.		14.6	19.6
12' Rt. = Edge Rd		11.0	23.2
Edge Rd		11.1	23.1
Edge Rd		11.30	23.87
2' Lt. = Edge Rd		11.1	23.1
3' Lt.		7.7	26.5
14' Lt. = Fence			
25' Lt.		0.4	33.8
50' Lt.		+8.2	42.4

3817
4

53+50

50' Lt.	78.8	43.0
25' Lt.	+1.5	35.7
11.2' Lt. = Fence		
3' Lt.	6.4	27.8
2' Lt. edge Rd	10.5	23.7
1/2	10.5	23.1
13' Rt. " "	11.1	23.1
19' Rt.	14.6	19.6
27.4' Rt.	15.3	18.9
30' Rt.	16.5	17.7
50' Rt.	16.8	17.4

54+00

50' Rt.	17.0	17.2
30' Rt.	16.8	17.4
25' Rt.	15.6	18.6
23' Rt. = Fence		
16' Rt.	15.2	19.0
11' Rt. = edge Rd.	11.3	22.9
1/2	10.7	23.5
36' " "	10.7	23.5
4' Lt.	7.3	26.9
25' Lt.	0.7	33.5
50' Lt.	+6.7	40.9

54+3066 = 30. Lt.

50' Lt.	+4.4	38.6
25' Lt.	2.0	32.2
14' Lt. = Fence		

3817
4

Filter Plant
Road

38

7' Lt.	8.1	26.1
5' Lt. = edge Rd	11.3	22.9
1/2	11.4	22.8
1/2 on Hub.	11.69	22.48
10' Rt. = edge Rd	12.0	22.2
14' Rt.	15.5	18.7
20.7' Rt. = Fence		
25' Rt.	16.7	17.5
50' Rt.	17.3	16.9

55+00

50' Rt. = edge Slough.	17.9	16.3
32' "	17.1	17.1
25' "	15.9	18.3
18.8' Rt. = Fence	15.2	19.0
13' Rt. = edge Rd	12.2	22.0
1/2	12.0	22.2
1' Lt. " "	12.0	22.2
3' Lt.	8.9	25.3
16' Lt. = Fence		
25' Lt.	4.8	29.4
50' Lt.	0.0	34.2

55+50

50' Lt.	2.6	31.6
25' Lt.	6.1	28.1
12.9' Lt. = Fence		
1' Lt.	9.9	24.3
1/2 = edge Rd.	12.1	22.1

	55+50	3817 4		
16' Rt = edge Rd			12.0	22.2
20' Rt			14.1	20.1
22.9' Rt = fence				
25' Rt			14.2	20.0
35' Rt			15.9	18.3
40' Rt edge slough			18.5	15.7
50' Rt " "			18.5	15.7
55' Rt			17.1	17.1
	56+00			
55' Rt			17.6	16.6
50' Rt			18.2	16.0
45' Rt edge slough			20.1	14.1
37' " " "			20.1	14.1
35' Rt			18.3	15.9
29' Rt			17.2	17.0
25' Rt			15.2	19.0
18.6' " = fence				
17' Rt = edge Rd			12.6	21.6
E			12.8	21.4
2' Lt " "			12.8	21.4
3' Lt			11.2	23.0
7' Lt = fence				
25' Lt			8.0	26.2
50' Lt			4.8	29.4
	56+50			
50' Lt			5.9	28.5
25' Lt			8.9	25.3

	3817 4	Filter Plant Road	39
14.2' Lt = fence			
9' Lt		12.0	22.2
8' Lt = edge Rd		13.5	20.7
E		12.9	21.3
T.P. 1068	3817 4	12.88	24.29
15' Rt = edge rd		11.0	21.0
13.3' Rt = fence		12.7	19.3
25' Rt		14.3	17.7
30' Rt		14.3	17.7
44' Rt = edge slough		17.2	14.8
56' " " "		17.0	15.0
65' Rt		16.0	16.0
	37+00		
60' Rt		16.4	15.6
59' " = edge slough		17.5	14.5
50' Rt " "		17.5	14.5
26' Rt		13.5	18.5
11.5' Rt = fence			
9' Rt		12.5	19.5
8' Rt = Edge Rd		11.6	20.4
E		11.1	20.9
13' Lt " "		10.9	21.1
14' Lt		9.9	22.1
17' Lt = fence			
25' Lt		8.5	23.5
50' Lt		5.9	26.8

3097

57+21.87 = E.C.

50' Lt.	5.3	26.7
25' Lt.	8.8	23.2
17.3' Lt. = Fence		
13' Lt.	10.1	21.9
12' Lt. = Edge Rd.	11.2	20.8
2	11.4	20.6
2 on Hub.	11.55	20.41
6' Rt. = edge Rd.	11.9	20.6
8"	12.4	19.6
13.1' Rt. = Fence		
25' Rt.	12.6	18.4
50' Rt. = edge Slough	17.5	14.5
61" " "	17.5	14.5
70' Rt.	16.0	16.0
57+50		
75' Rt.	16.0	16.0
63' = edge Slough	18.0	14.0
25' Rt.	13.7	18.3
14' Rt. = Fence		
10' Rt.	12.9	19.1
5' Rt. = edge Rd.	11.5	20.5
2	11.4	20.6
12' Lt.	11.2	20.8
13' Lt.	10.3	21.7
17' Lt. = Fence		

3097

Filter Plant
Road

40

25' Lt.	9.3	22.7
50' Lt.	6.6	25.4
58+06.67 = E.C. Lt.		
50' Lt.	5.4	26.6
25' Lt.	8.4	23.6
22.2' Lt. = Fence		
15' Lt.	9.9	22.1
14' Lt. = edge Rd.	10.5	21.5
2	10.8	21.2
2 on Hub.	10.27	20.00
5' Rt. = Edge Rd.	10.9	21.1
11"	12.8	19.2
17.5' Rt. = Fence		
23' Rt.	12.9	19.1
50' Rt. = edge Slough	17.6	14.4
70" " "	17.2	14.8
58+50		
70' Rt. = edge Slough	18.3	13.7
50' Rt.	16.6	15.4
26' Rt.	12.8	19.2
25' Rt.	12.8	19.2
21.8' Rt. = Fence		
16' Rt.	12.9	19.1
3' Rt. = edge Rd.	9.9	22.1
2	9.9	22.1
17' Lt. " "	9.8	22.2
18' Lt.	9.2	22.8

3097

25' Lt	8.3	23.7
27' Lt = Fence		
50' Lt	5.0	27.0
59+00		
50' Lt	4.0	28.0
2.6.3 Lt = Fence		
25' Lt	7.2	24.8
16' Lt	8.7	23.3
15' Lt = edge Rd.	10.7	21.9
ℓ	9.5	22.5
4' Rt " "	9.6	22.4
24' Rt	11.4	20.6
28' Rt	13.2	18.8
33.7' Rt = Fence		
40' Rt	13.3	18.7
70' " = 1/2 Slough	18.7	13.3
59+50		
51' Rt = Fence (Cont. NAILY)		
50' Rt	15.2	16.8
25' Rt	13.3	18.7
9' Rt = edge Rd.	11.8	20.2
ℓ	11.9	20.1
10' Lt " "	12.1	19.9
11' Lt	11.0	21.0
20' Lt = Fence		
25' Lt	8.2	23.8
50' Lt	4.6	27.4

3097 Filter Plant
Road 41

60+00

50' Lt	3.1	28.9
46' Lt	6.3	25.7
25' Lt	9.0	23.0
8.1' Lt = Δ in Fence		
15' Lt	10.0	22.0
5' Lt = edge Rd	13.6	18.4
ℓ	13.6	18.4
10' Rt = edge Rd = Edge B. Field		
25' Rt	14.5	17.5
50' Rt	14.8	17.2
Note from station 59+75 to 73+50 = " Bears Field Rt. edge Road		
60+50		
50' Rt	14.4	17.6
25' Lt	14.5	17.5
5' Rt = edge Rd.	13.2	18.8
ℓ	13.2	18.8
10' Lt " "	13.5	18.5
11' Lt	12.0	20.0
16.4' Lt = Fence		
25' Lt	9.5	22.5
38' Lt	8.0	24.0
41' Lt	5.4	26.6
50' Lt	2.9	29.1

	3097			
	61+00			
50' Lt.		71.0	33.0	
25' Lt.		9.0	23.0	
19' Lt. = Fence		10.8	21.2	
15' Lt.		11.3	20.7	
14' Lt. = edge Rd.		12.2	19.8	
∫		12.5	19.5	
2' Rt. " "		12.4	19.6	
25' "		12.4	19.6	
50' Rt.		13.1	18.9	
	61+58.53 = EC			
50' Rt.		10.2	21.8	
25' "		10.0	22.0	
4' Rt. = Edge Rd.		10.3	21.7	
∫ on Hub.		10.49	21.48	
∫		10.3	21.7	
11' Lt. = edge Rd.		10.8	21.2	
14' Lt.		8.7	23.3	
15' Lt. = Fence				
25' Lt.		3.8	28.2	
T.P.	13.03	22.56	4.44	28.53
50' Lt.		+0.5	41.1	
	62+00			
50'		+5.4	46.0	
25' Lt.		8.0	32.6	
19' Lt. = Fence				

	2256	Filter Plant Road	42
	40		
12' Lt.		14.2	26.4
9' Lt.		14.2	26.4
8' Lt. = edge Rd.		16.3	23.7
∫		16.0	24.56
8' Rt. " "		16.0	24.6
25' Rt.		16.3	24.3
50' Rt.		16.2	24.4
	62+50		
50' Rt.		12.4	28.2
25' Rt.		12.0	28.6
6' Rt. = Edge Rd.		12.1	28.5
∫		11.9	28.7
9' Lt. " "		12.1	28.5
10' Lt.		9.5	31.1
13' Lt.		9.5	31.1
25' Lt. = Fence		4.0	36.6
50' Lt.		17.9	48.5
	63+00		
50' Lt.		7.8	48.4
31' Lt. = Fence			
25' Lt.		3.5	37.1
17' Lt. = edge Rd.		7.3	33.3
2' " " "		7.3	33.3
∫		7.0	33.6
25' Rt.		7.9	32.7
50' Rt.		8.4	32.2

50' Rt	63+50	59.56 40	5.5	35.1
25'"			4.6	36.0
∅			3.5	37.1
11' Lt. = edge Rd.				
25' Lt. " "			3.0	37.6
26' Lt. 1907		3	1.0	39.6
36.8' Lt. Fence	58.05	0.58	38.98	
41' Lt.			2.9	44.4

64+00				
50' Lt.			8.2	44.8
41' Lt. = Fence			8.5	44.5
31' Lt.			10.2	42.8
30' Lt. = edge Rd.			11.0	42.0
14' Lt. " "			12.0	41.0
∅			12.3	40.8
25' Rt.			13.9	39.1
50' Rt.			15.2	37.8

64+50				
50' Rt.			12.4	40.6
25' Rt.			11.2	41.8
∅			9.9	43.2
13' Lt. = edge Rd.			9.2	43.8
30' Lt. " "			8.1	44.9
31' Lt.			7.3	45.7
40' Lt. Fence			5.8	47.2

5805 Filter Plant Road			65+00	3	43
50' Lt. in Barn			4.6	48.4	
38' Lt. = edge "			4.6	48.4	
30' Lt.			5.9	47.1	
29' Lt. edge Rd.			7.1	45.9	
12' " " "			7.3	45.7	
∅			8.2	44.8	
25' Rt.			9.7	43.3	
50' Rt.			10.9	42.1	

65+50					
50' Rt.			9.2	43.8	
25' Rt.			7.7	45.3	
∅			6.4	46.6	
10' Lt. = edge Rd.			5.7	47.3	
27' " " "			6.2	46.8	
28' Lt.			5.5	47.5	
34.3' Lt. = Fence			5.1	47.9	
50' Lt.			4.6	48.4	

66+00					
42.8' Lt. = Barn			2.4	50.6	
26' " "			3.0	50.0	
25' Lt. = edge Rd.			3.8	49.2	
8' " " "			3.7	49.3	
∅			3.8	49.2	
25' Rt.			5.1	47.9	
50' Rt.			6.0	47.0	

	66+50	5805 3		
50' Rt.			2.3	50.7
25' "			1.1	51.9
⊥			0.3	52.8
5' Lt. = Edge Rd			0.2	52.8
20' Lt.			0.6	52.4
22' Lt. = Fence			+2.1	53.1
25' Lt.			+0.5	53.5
50' Lt.			+4.9	57.9
T.P.	12.13	6856	0.62	58.43
	66+71.86 = 80 Rt.			
50' Lt.			5.0	59.6
36' Lt.			6.0	58.6
20.2 Lt. Fence				
25' Lt.			8.5	56.1
20' Lt.			8.8	55.8
19' Lt. = edge Rd			2.9	54.7
3' Lt.			2.7	54.9
⊥			2.5	55.1
⊥ on Hub.			2.85	54.80
25' Rt.			10.5	54.1
50' "			11.8	52.8
	67+00			
50' Rt.			9.4	55.2
25' Rt.			7.9	56.7
⊥			6.9	57.7
3' Lt. Edge Rd			7.1	57.5

	6856 4	Filter Plant Road	44
18' Lt. edge Rd		7.4	57.2
19' Lt. = Fence		6.4	58.2
25' Lt.		5.6	59.0
30' Lt.		4.2	60.4
50' Lt.		2.4	62.2
	67+50		
50' Lt.		+2.4	67.0
25' Lt.		0.6	64.0
23.7 Lt. = Fence			(67+48)
22' Lt.		1.1	63.5
21' Lt. = edge Rd		1.2	62.7
6' Lt.		2.5	62.1
⊥		2.2	62.4
25' Rt.		3.9	60.7
50' Rt.		5.8	58.8
T.P.	7.96	72.53	0.99
	68+00		
50' Rt.		10.5	61.0
25' "		8.0	63.5
⊥		6.2	65.3
10' Lt. = Edge Rd		5.7	65.8
25' "		4.7	66.8
28' " " "		4.2	67.3
30' Lt.		3.5	68.0
50' Lt.		1.1	70.4

70.53

68+50

50' Lt	7.14	72.9
30' Lt	0.3	71.2
25' Lt. - edge Rd.	2.3	69.2
8' Lt. " "	3.7	67.8
2	4.5	67.0
25' Rt.	6.7	64.8
50' "	9.2	62.3

69+00

50' Rt.	9.5	62.0
2.5' Rt.	7.1	64.4
2	4.3	67.2
1' Lt. edge Rd.	4.6	66.9
17' " " "	2.5	68.0
18' Lt.	1.8	69.7
2.5' Lt.	1.5	70.0
50' Lt.	+0.5	72.0

69+50

50' Lt.	1.1	70.4
2.5' Lt.	3.9	68.1
16' Lt.	3.9	67.6
15' Lt. - edge Rd.	5.6	65.9
2	6.0	65.5
2.5' Rt.	8.1	63.4
50' Rt.	10.1	61.4

70+00

70.53

Filter Plant
Road

45

50' Rt.	11.9	60.1
25' Rt.	9.2	62.3
2	6.6	64.9
6' Lt. = Edge Rd.	6.2	65.3
20' Lt. " "	5.6	65.9
22' Lt.	4.3	67.2
25' Lt.	3.9	67.6
50' Lt.	1.8	69.7

70+27.89 = F.C.

100' Lt. & Wash	10.0	61.5
71' Lt. = 2 Wash	12.0	59.5
47' Lt. Top Bank	2.9	68.6
26' Lt.	4.0	67.5
25' Lt. - edge Rd.	5.7	65.8
10' Lt. " "	6.4	65.1
2	7.1	64.4
2 on Hub	7.60	63.93
25' Rt.	9.9	61.6
50' Rt.	11.8	59.7
T.P. 119	5 6X. 12	760 6X. 93

70+27.89
Hub

70+50

50' Rt.	6.2	58.2
2.5' Rt.	4.4	60.7
2	1.9	63.2
12' Lt. = Edge Rd.	0.5	64.6
25' Lt.	10.3	65.4

Cont. Page 47

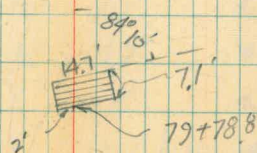
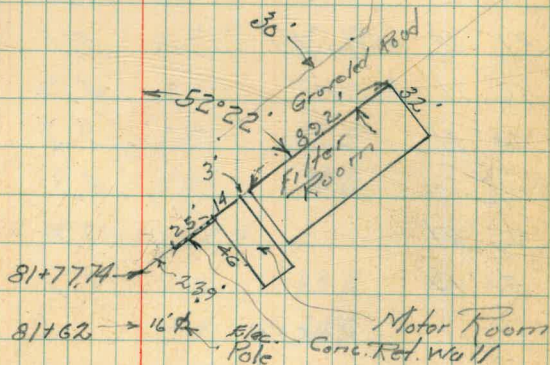
"Alignment" Filter Plant Road
Cont. from p. 14

46

81+77.7

81+62 = Elec. Pole 16' Rd

79+78.8 = Int. Edge Cattle Guard 7.1' x 14.7'



6x12
5

Cont. from p. 45

28' Lt. Edge Rd	+0.3	65.4
30' Lt.	+1.1	66.2
33' Lt. Bank Wash	+0.8	65.9
45' Lt. "	7.0	58.1
55' Lt. Bank "	+3.0	68.1

71+00

51' Lt. Top Bank Wash	0.6	64.5
43' Lt.	10.5	54.6
36' Lt.	11.0	54.1
34' Lt.	2.5	62.6
31' Lt. edge Rd	3.1	62.0
15' Lt. " "	4.2	60.9
14' Lt.	3.8	61.3
L	4.9	60.2
25' Rt.	7.2	57.9
50' Rt.	8.7	56.2

71+50

50' Rt.	12.7	52.4
25' "	10.9	54.2
L	2.5	55.6
18' Lt. edge Rd	8.6	56.5
25' Lt.	8.7	56.4
32' Lt. " "	8.6	56.5
33' Lt.	7.6	57.5
38' Lt. Bank of Wash	7.1	58.0
40' Lt. in Wash.	15.7	49.4
47' " " "	15.7	49.4

6x12
5Filter Plant
Road

47

55' Lt. = Top Bank	2.7	62.4
T.P. 0.07	5x 8.5	12.34
	2	6x 7.8
	72+00	
57' Lt. Top Bank	+2.8	55.6
52' Lt. in Wash	6.9	45.9
45' Lt. " "	6.9	45.9
38' Lt.	0.3	52.5
35' Lt.	0.3	52.5
34' Lt. = edge Rd.	1.5	51.3
25' Lt.	1.9	51.4
18' Lt.	1.3	51.5
L	3.0	50.8
25' Rt.	3.3	49.5
50' Rt.	4.2	48.6

72+58.70 = 86. Lt.

50' Rt.	9.0	43.8
25' Rt.	8.4	44.4
L	7.5	45.3
L on Hub.	8.03	44.82
17' Lt. Edge Road	6.8	46.0
25' Lt.	7.1	45.7
33' Lt. " "	7.1	45.7
37' Lt. Bank Wash	5.7	47.1
43' Lt. in "	10.5	42.3
46' Lt. " "	10.5	42.3
50' Lt. Bank "	4.3	48.5

	5x85 2	73+00	
50' Lt. = Bank Wash		7.6	45.2
47' Lt. of Wash		13.6	39.2
40' Lt. Bank		2.1	43.7
33' Lt.		2.3	43.5
32' Lt. = edge Rd		10.5	42.3
25' Lt.		10.5	42.3
15' Lt. " "		10.4	42.4
6		11.2	41.6
25' Rt.		12.2	40.6
50' "		13.0	39.8
TR	0.39	⁴⁰ 29 .18	13.06 38.79
		73+50	
50' Rt.		4.7	35.5
25' Rt.		3.9	36.3
8		2.4	37.8
6' Lt.		2.3	37.9
9' Lt. = edge Rd		1.7	38.5
25' Lt. " "		1.6	38.6
27' Lt.		0.0	40.2
34' Lt.		1.3	38.9
38' Lt. in Wash		4.0	36.0
39' Lt.		0.0	40.2
50' Lt.		+4.0	44.2
		74+00	
50' Lt.		+3.0	43.2
39' Lt. = Bank		1.2	39.0

	7218 40	Filter Plant Road	48
36' Lt. in Wash		6.6	33.6
24' Lt. " "		6.0	34.2
23' Lt.		2.8	37.4
20' Lt. edge Rd.		3.0	37.2
2' Lt. " "		2.4	36.8
4		4.0	36.2
6' Rt. = edge Bear Field		6.2	33.3
25' Rt.		7.8	32.4
50' Rt.		8.8	31.4
		74+50	
50' Rt. = edge Bear Field		12.9	27.3
25' Rt.		10.0	30.2
10' Rt.		8.3	31.9
3' Rt. edge Rd.		5.5	34.7
8		5.2	35.0
12' Lt. " "		5.0	35.2
15' Lt.		5.0	35.2
19' Lt. in Wash		8.9	31.3
32' Lt. " "		8.6	31.6
34' Lt. Bank		2.3	37.9
50' Lt.		+3.5	43.7
		74+75	
50' Lt.		+3.1	43.3
38' Lt.		0.9	39.3
30' Lt. in Wash		9.4	30.8
9' Lt. at Bridge in Wash		10.7	29.5
9' Lt. on Bridge		6.4	33.8

3218
40

ℓ		6.4	33.8
6' Rt. = end Bridge		6.4	33.8
6' Rt. in Wash		10.6	29.6
25' Rt.		11.4	28.8
50' Rt.		13.5	26.7
74+76			
50' Rt. in Wash		13.5	26.7
25' Rt. " "		11.4	28.8
ℓ " " under Bridge		10.6	29.6
25' Lt. " "		9.4	30.8
30' Lt. " "		9.4	30.8
38' Lt.		0.9	39.3
50' Lt.		+3.1	43.3
74+84 Elev. Same as Above Sec.			
74+85 Elev. Same as 74+75			
75+00			
50' Lt.		+4.4	44.6
37' Lt. Bank Wash.		0.6	39.6
30' Lt. in Wash.		9.7	30.5
16' " " "		10.2	30.0
11' Lt.		6.1	34.1
8' Lt. = edge Rd.		6.3	33.9
ℓ		6.6	33.6
9' Rt. " "		7.2	33.0
20' Rt.		12.7	27.5
25' Rt.		13.3	26.9
50' Rt.		13.8	26.4

3218 Filter Plant
40 Road

49

75+3875 = E.C.

50' Rt.		16.3	23.9
25' Rt.		14.3	25.9
17' Rt.		13.3	26.9
8' Rt. = edge Rd.		7.4	32.8
ℓ		6.7	33.5
ℓ on Hub.		6.27	33.21
8' Lt. = edge Rd.		6.6	33.6
13' Lt. in Wash.		9.7	30.5
22' Lt. " "		9.7	30.5
25' Lt. on Bank		14	38.8
50' Lt.		+7.4	47.6
75+85 = End of Wash on Lt. = Bay. Sec. Field on Rt.			
50' Lt.		+11.0	51.2
25' Lt.		0.1	40.1
6' Lt.		6.1	34.1
5' Lt. = edge Rd.		8.7	31.5
ℓ		8.6	31.6
10' Rt. " "		8.8	31.4
14' Rt.		12.0	28.2
22' Rt.		14.0	26.2
25' Rt. = edge Bay. Field.	14.3		25.9
50' Rt.		18.2	22.0
76+20			
50' Rt.		18.0	22.2
25' Rt. = edge B. Field.	13.9		26.3

18
40

21' Rt	13.1	27.1
12' Rt. = edge Rd	8.6	31.6
↳	8.2	32.1
3' Lt. " "	8.1	32.1
5' Lt.	5.5	34.7
25' Lt.	+0.7	40.9
50' Lt.	+12.0	52.2
76+53.00 = B.C. Pt.		
50' Lt.	+11.0	51.2
25' Lt.	+2.0	42.2
7' Lt.	3.8	36.4
5' Lt. = edge Rd	7.2	33.0
↳	7.3	32.9
↳ on Hub. ^{TR 1182} ₄ 48.55	7.45	32.73
12' Rt. = Edge Road	12.0	32.5
21' Rt.	16.4	28.1
25' Rt. = edge B. Field.	17.0	27.5
50 "	21.0	23.5
77+00		
50' Rt	20.4	24.1
25' Rt = Edge B. Field	16.2	28.3
18' Rt.	15.1	29.4
8' " Edge Rd,	10.7	33.6
↳	10.7	33.8
8' Lt. " "	10.5	34.0
9' Lt.	8.1	36.4

48.55
4

Filter Plant
Road

50

25' Lt.	3.5	41.0
50' Lt.	+7.0	51.5
77+50		
50' Lt.	+4.2	48.7
25' Lt.	4.5	40.0
14' Lt.	7.3	37.2
12' Lt. = Edge Rd.	9.7	34.8
↳	9.7	34.8
3' Rt. " "	2.8	34.7
8' Rt.	12.9	31.6
14' Rt. = edge B. Field	14.1	30.4
25' Rt.	15.8	28.7
50' Rt.	19.7	24.8
78+00		
50' Rt.	18.8	25.7
25' Rt.	14.4	30.1
14' Rt. edge B. Field	12.8	31.7
9 "	11.5	33.0
3' Rt. " Road	8.6	35.9
↳	8.5	36.1
13' Lt. " "	8.7	35.8
15' Lt.	5.7	38.8
25' Lt.	3.1	41.4
50' Lt.	+4.8	49.3
78+50		
50' Lt.	+10.0	54.5
25' Lt.	1.1	43.4

48.55

4

16' Lt.	4.2	40.3
10' Lt.	6.1	38.4
9' Lt. = edge Rd	8.3	36.2
8' Lt.	8.5	36.1
8' Rt. " "	8.9	35.6
13' Rt.	11.7	32.8
19' Rt. = edge B. Field	18.1	31.4
25' Rt.	14.1	30.4
50' Rt.	18.0	26.5
78+79.02 = EC.		
50' Rt.	17.2	29.3
25' Rt.	13.2	31.3
21' Rt. edge B. Field	13.0	31.5
16' Rt.	11.5	33.0
11' Rt. " Road	8.8	35.7
8' Lt.	8.5	36.1
8' on Hub.	8.72	35.83
6' Lt. = Edge Rd	8.3	36.2
7' Lt.	6.3	38.2
25' Lt.	1.4	43.1
50' Lt.	+7.4	51.9
79+00		
50' Lt.	+6.2	50.7
25' Lt.	1.2	43.3
5' Lt.	5.6	38.9
4' Lt. edge Road	8.5	36.0
8' Lt.	8.5	36.1

48.55

4

Filter Plant
Road

51

11' Rt. = Edge Rd	8.5	36.0
17' Rt.	10.9	33.6
23' Rt. = Edge Bean Field	12.3	32.2
25' Rt.	12.8	31.7
50' Rt.	16.3	28.2
79+50		
50' Rt.	15.4	29.1
25' Rt. = Edge Bean Field	13.0	31.5
20' Rt.	11.6	32.9
14' Rt. = Edge Road	8.6	35.9
8' Lt. = Edge "	8.4	36.2
3' Lt.	6.7	37.8
25' Lt.	1.6	42.9
50' Lt.	+6.0	50.5
79+78.8 on Cattle Guard		
2' Lt.	8.1	36.4
12.7' Rt.	8.2	36.3
79+86 on Cattle Guard		
12.7' Rt.	8.2	36.3
2' Lt.	8.2	36.2
T.P. 7.57	⁶⁰ 49.63	1.99
80+00		
50' Lt.	+0.5	51.1
25' Lt.	8.7	41.9
3' Lt. = Edge Road	13.3	37.3
8' Lt.	13.3	37.3

4263
50

10' Rt = Edge Rd	14.3	36.3
25' "	17.9	32.7
30' Rt = Bean Field	19.1	31.5
50' Rt	20.4	30.2
80+50		
50' Rt	15.9	34.7
25' Rt	13.2	37.4
4' Rt = Edge Rd.	12.0	38.6
ℓ	12.0	38.6
7' Lt " "	12.0	38.6
25' Lt	9.2	41.4
50' Lt	1.1	49.5

81+00

50' Lt	3.4	47.2
14' Lt	5.3	45.3
25' Lt	6.9	43.7
11' Lt Edge Rd.	8.2	42.4
ℓ " "	8.6	42.0
25' Rt	9.9	40.7
40' Rt	13.5	37.1
50' Rt	14.1	36.5

81+50

50' Rt	8.3	42.3
25' Rt	8.7	41.9
20' Rt	7.1	43.5
3' Rt	6.4	44.2

4263 Filter Plant
50 Road

52

2' Rt = Edge Rd.	6.9	43.7
ℓ	6.9	43.7
11' Lt " "	6.9	43.7
13' Lt	5.9	44.7
25' Lt	4.2	46.4
40' Lt	2.2	48.4
50' Lt	10.6	51.2
81+77.7 ✓		
23.9' Rt. on dug = on ground at Wall	5.2	45.4
" " " " on Wall	2.18	48.45
48.2' on Wall at Bld.	2.35	48.28
" " Ground W side	3.5	47.1
" " " " E "	6.1	44.5

82+00

25' Lt	0.3	50.3
7' Lt	3.3	47.3
5' Lt = Edge Rd.	4.1	46.5
ℓ	4.0	46.6
25' Rt cross on Rd. no wall	4.1	46.5
chk B.M. 46.9 Rt. 81+77.7	2.35	48.28
- 2' from Bld. Datum		
46.12		
42.16 = city datum		
B.M. by Water Development. 41.79		
FB #538 " " 0.37 = diff.		
37		

Cont. P-53

Filter Plant Road

4263

TP	7.66	56.79	0.50	49.13
----	------	-------	------	-------

82+50

25.0' Rt.			7.9	48.9
-----------	--	--	-----	------

L = W edge Rd			6.8	50.0
---------------	--	--	-----	------

22' Lt.			3.2	53.6
---------	--	--	-----	------

25' Lt.			1.7	55.1
---------	--	--	-----	------

83+00

25' Lt.			+1.0	51.8
---------	--	--	------	------

3' Lt Edge Rd.			1.3	55.5
----------------	--	--	-----	------

L			1.3	55.5
---	--	--	-----	------

25' Rt. in Rd			2.9	53.9
---------------	--	--	-----	------

53

Elevations on Curb Returns

on AFTON ROAD

Of Alley on East Side Afton Rd.

And South of Hurlburt St.

And Afton Rd. Nerson St.

Walker
Pope
Pulleo

8-10-53 NE Ret. Alley

2+21.65 Gut 6.45

" Top 5.98

2 Ret. Gut 6.44

" " Top 5.91

E.C. " 5.80

" Gut 6.40

Alley
SE Ret. 35.9 Length

E.C. Top sb 5.71

" Gut 6.32

+12 Gut 6.57

" Top 5.96

+24 Gut 6.80

" Top 6.17

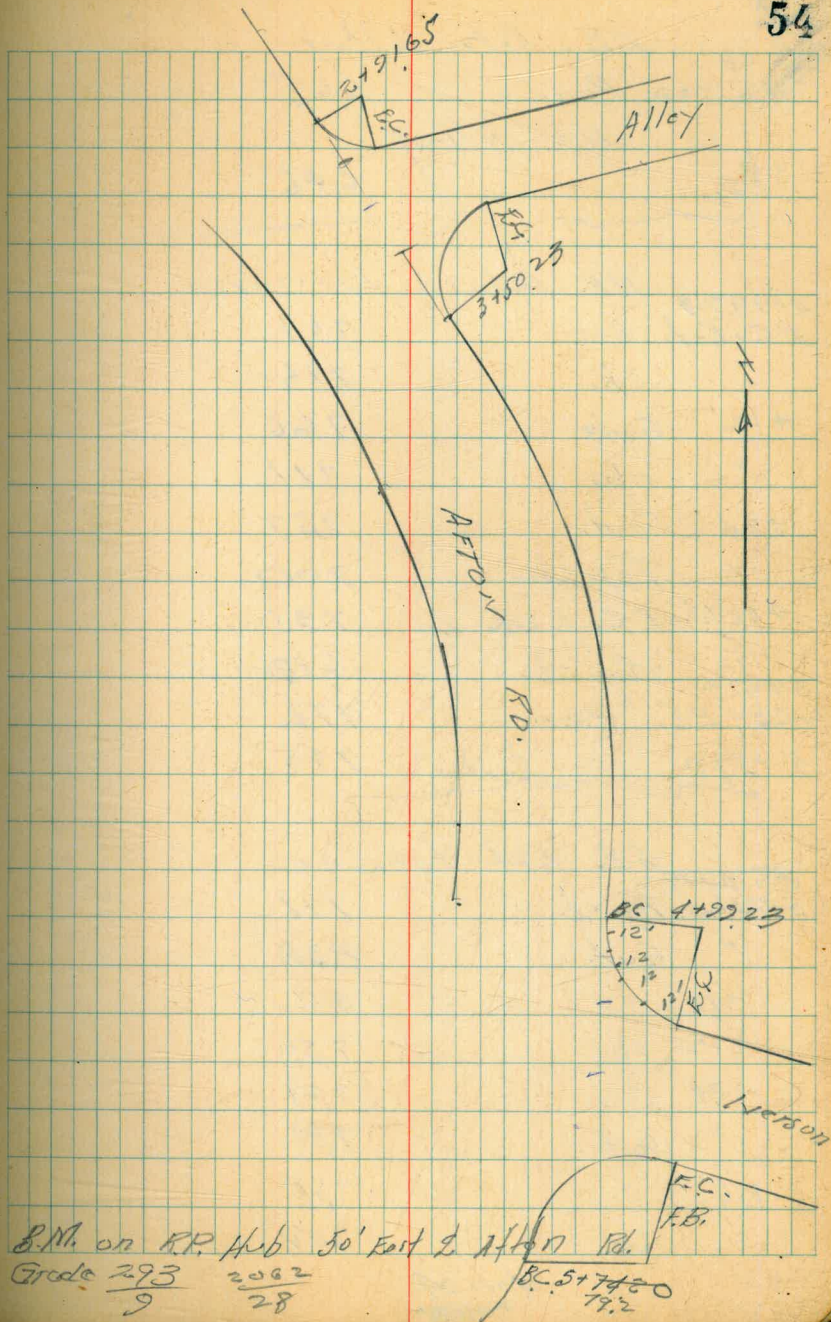
3+50.23 " 6.34

" Gut 7.19

T.P. 4.65 400.04 5.42 395.39

T.P. 6.75 400.81 4.87 395.06

2.11 399.73 397.82



B.M. on R.R. Hub 50' East of Afton Rd.

Grade $\frac{293}{9}$ 2082 28

BC 5+74.50 79.2

cb S.E. Ret. Alley
P.I. on Pav. 6.65

cb P.I. NE Alley 6.46

419923 NE Return Nerson

BC Ret. Gut. 7.61

" cb. 7.16

+12' Guts 7.66

" cb. 7.11

+24 Guts 7.57

" Top cb. 7.00

+36.15 F.S. Guts 7.35

" Top cb. 6.83

5+21.2 cb P.I. Pav. 7.72

5+39.2 " 2. str. 7.80

S.E. Ret. Nerson

BC 5+19.2 Top cb 7.71

" Gut. 8.38

+12' " 8.11

+12' cb. 7.50

+24' " 7.29

" Gut. 7.80

F.S. " 7.54

" cb. 7.0V

400.00

Atton Rd.

Fast Cut.

5456 on Rev.

793

56

001

chk. Starting B.M.

201

397.82

397.81

T.P.

524

399.82

704

393.88

T.P.

547

400.92

459

395.45

Fast Cut

5456

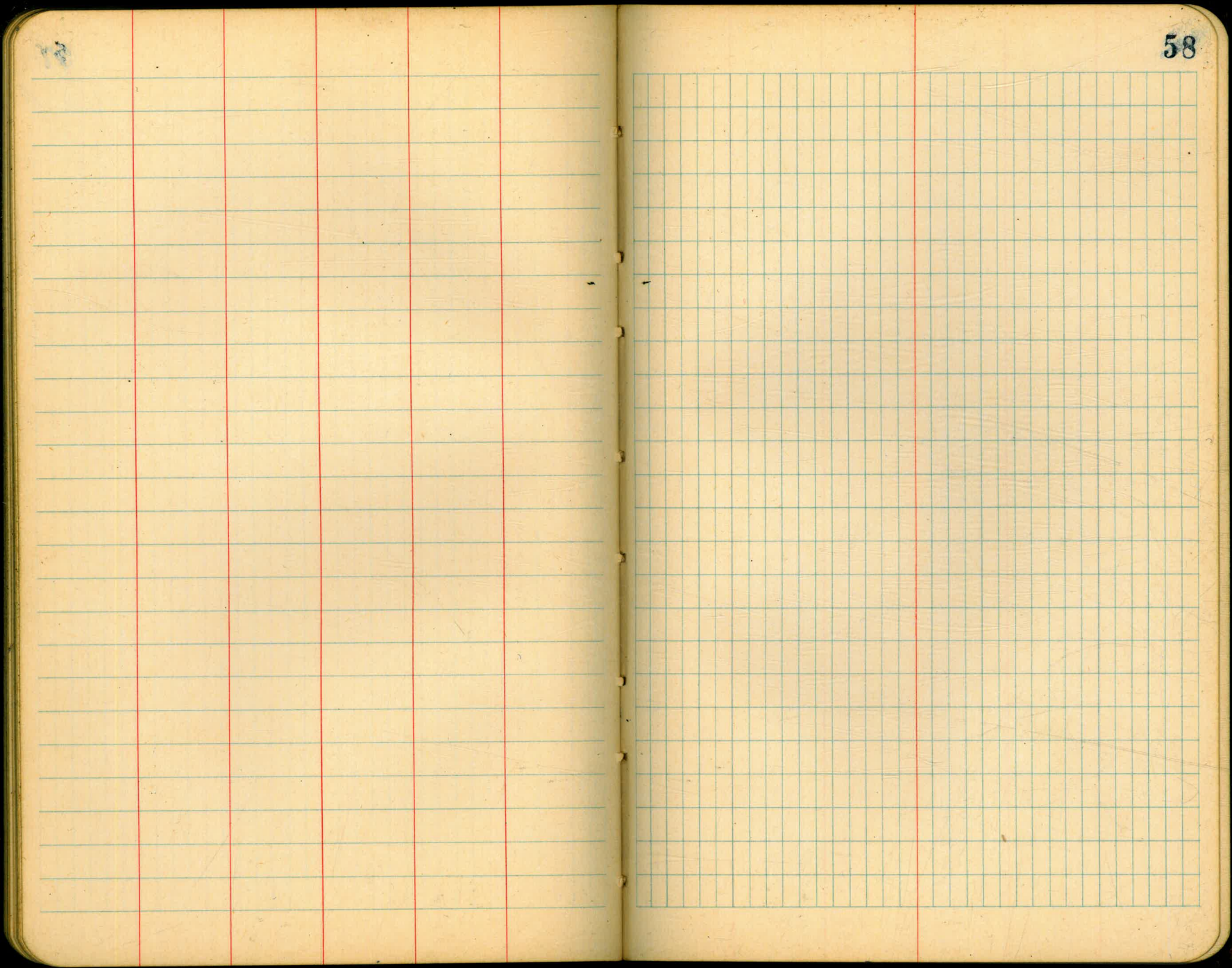
on Rev.

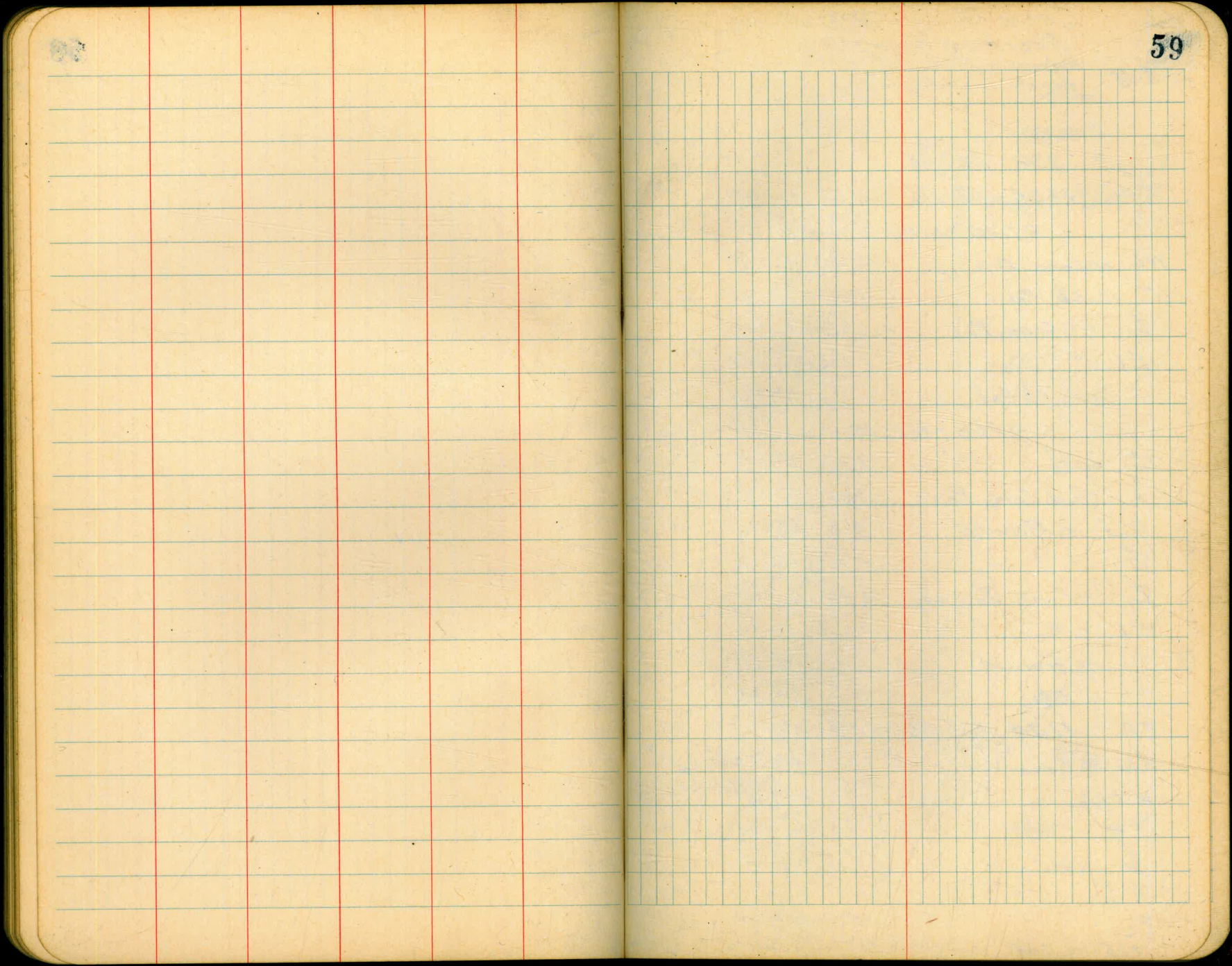
793

~~400.04~~

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A page of grid paper with a vertical red margin line and a grid of blue lines. The page is blank.





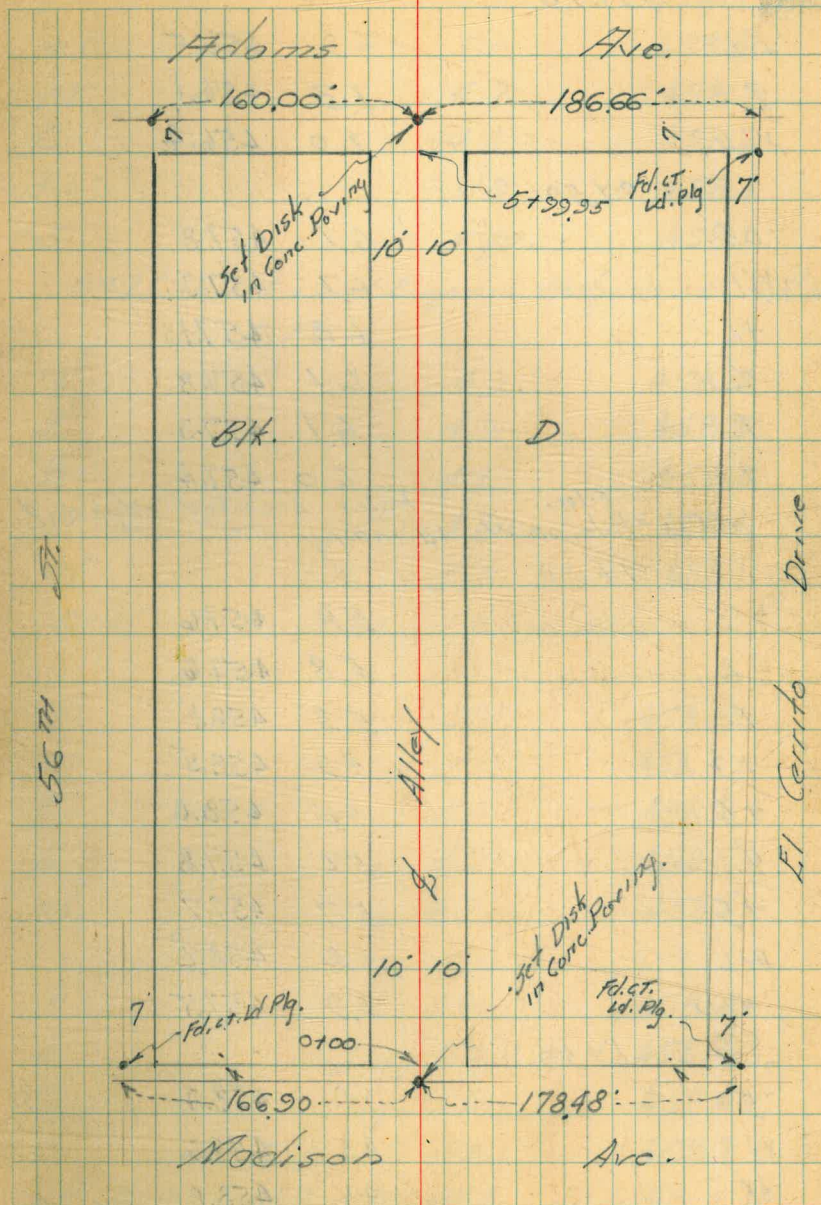
Walker
Harden
Hunley
12-5-45

CROSS SECTION 20' ALLEY - Bk. D -
ROLAND GARDENS
between 56th and El Cerrito Drive
from N.L. Madison to S.L. Adams Ave.

	2.96	447.73	437.77	B.M. NE BR El Cajon + 56th
T.P.	12.95	453.76	6.22	440.81
0-10' = N cb. Lino Madison Ave				
W.L. on Conc. Pav.	2.26	451.50		
" " cb Ret.	1.91	451.85		
do on Conc. Pav.	1.83	451.96		
EL " " "	1.36	452.40		
" on cb Ret.	0.98	452.78		
0+00 = N.L. Madison Ave				
L on cb.	1.03	452.73		
" " Gut. Conc. Pav.	1.46	452.30		
Gut. on Ground	0.2	453.56		
do " "	1.0	452.76		
do " Conc. Paving	1.84	451.92		
W.L. " " "	1.98	451.78		
" " Ground	1.0	452.76		
" " cb.	1.85	451.91		
T.P.	11.47	463.40	1.83	451.93 on Disk 0-04' 0+07 N end Wall
W.L. on Conc. Wall	7.9	455.50		
W + 0.2'	8.3	455.1		
+ 4	9.5	453.9		
do	9.7	453.7		
+ 5	8.7	455.1		
EL.	7.4	456.0		
+ 15 on Conc. Wall	7.36	456.04		

indexed
e.s.R

60



46340 Alley Bk. D

0+15

E.L.	6.9	456.5
Z	7.3	456.1
W.L.	7.0	456.4

0+50

-05'	6.1	457.3
W.L.	6.1	457.3
+6	6.3	457.1
Z	6.1	457.3
E	6.1	457.3
+5	6.0	457.4

Floor
0+75 = Pole on W 1.7' in Alley
1+00

-5	5.8	457.6
-2	5.8	457.6
E	5.3	458.1
+2	4.9	458.5
+5	5.4	458.0
Z	5.2	457.8
+5	5.7	457.7
W.L.	5.2	458.2
+10	5.9	457.5

1+50

-5	5.0	458.4
W	4.8	458.6
+5	4.6	458.8

46340

61

Z	5.1	458.3
+5	5.0	458.4
+8	4.7	458.7
E	4.8	458.6
+2	5.3	458.1
+5	5.3	458.1

0+75 to 2+00 = Eugenia Hedge on E 2' Back
2+00

-5	4.9	458.5
E	4.9	458.5
Z	4.8	458.6
W	4.8	458.6
+5	5.3	458.1

2+25 = Pole on W 1.7' in Alley

2+50

-5	5.1	458.3
W	5.1	458.3
Z	5.0	458.4
E	4.9	458.5
+5	4.9	458.5

3+00

-5	5.0	458.4
E	5.0	458.4
Z	5.0	458.4
W	5.2	458.2

T.P. 380 462.38 482.458.58 on East
Cont. P. 62
3+35 = 4' Conc. Walk 3.80 458.58 0.3' in Alley

"Alley Blk. D.
462.38

3+46 = beg. Conc. Drive on West on line
4.26 458.12

3+62 = End Above Drive 4.29 458.09

3+00 to 3+50 = 4.5' Gulch Wire Fence on E.
on line at 3+50 0.3' in Alley at 3+00

5' W 3+50
W.L. on Drive 4.16 458.22
W.L. " " 4.24 458.14
E 4.2 458.2
E 4.0 458.4
+5 4.0 458.4

3+74 Pole on W 18' in Alley
4+00

-5 in Ditch. Drains yard 4.8 457.6
E 4.5 457.9
E 4.3 458.1
W 4.3 458.1
+5 in Ditch Drains yard 4.4 458.0
4+03 5' EEL 4.8 457.6
4+04 beg. Conc. Drive on W 0.2' in Alley 4.39 457.99
4+21 End " " 4.98 457.90

4+50

-5 5.0 457.4
W 4.9 457.5
E 4.7 457.7
E in Ditch Drains yard 4.8 457.6
+5 4.7 457.7

5+38 = End Pickett Fence on E 0.5 in Alley 82
4+50 beg. Pickett Fence on E 0.2 in Alley
5+00 462.38

-5 5.0 457.4
E 5.3 457.1
E 5.6 456.8
+5 5.7 456.7
+6 5.2 457.2
W 5.5 456.9
+5 5.8 456.6

4+75 to 5+40 Pickett Fence on W 0.5' in Alley
5.64 456.74

5+38 = beg. Conc. Drive on E. 0.4 in Alley
5+44 = End Above Drive

E+0.5 on " " 5.72 456.66
E-12 " " " 5.20 457.18

5+50 = N end Above Drive

5 6.6 455.8
W 6.2 456.2
E 6.1 456.3
E on Drive 5.80 456.6

5+80

E 6.6 455.8
E 7.0 455.4
W 7.0 455.4

5+95

W 7.7 454.7
E 8.3 454.1

462.38

L 45

8.2 454.2

E

6.8 455.6

5+99.95 = S.L. Adams Ave

E on cb

8.24 454.14

" " Conc. Gut.

8.65 453.73

L on Conc. Pav.

8.93 453.45

W " " Gut.

8.85 453.53

" " cb

8.47 453.91

6+109.95 = S. cb. Adams

W on cb Ret

8.54 453.84

" " Pav.

9.14 453.24

L " "

9.02 453.36

E " "

8.93 453.45

" " cb Ret.

8.36 454.02

T.P.

126

454.59

9.05

453.33

on Dist
6706.25

TP

0.90

443.45

12.04

442.55

chk

DM Cross Plg.

55.11

9.83

433.62

433.65 = 811.

0.03

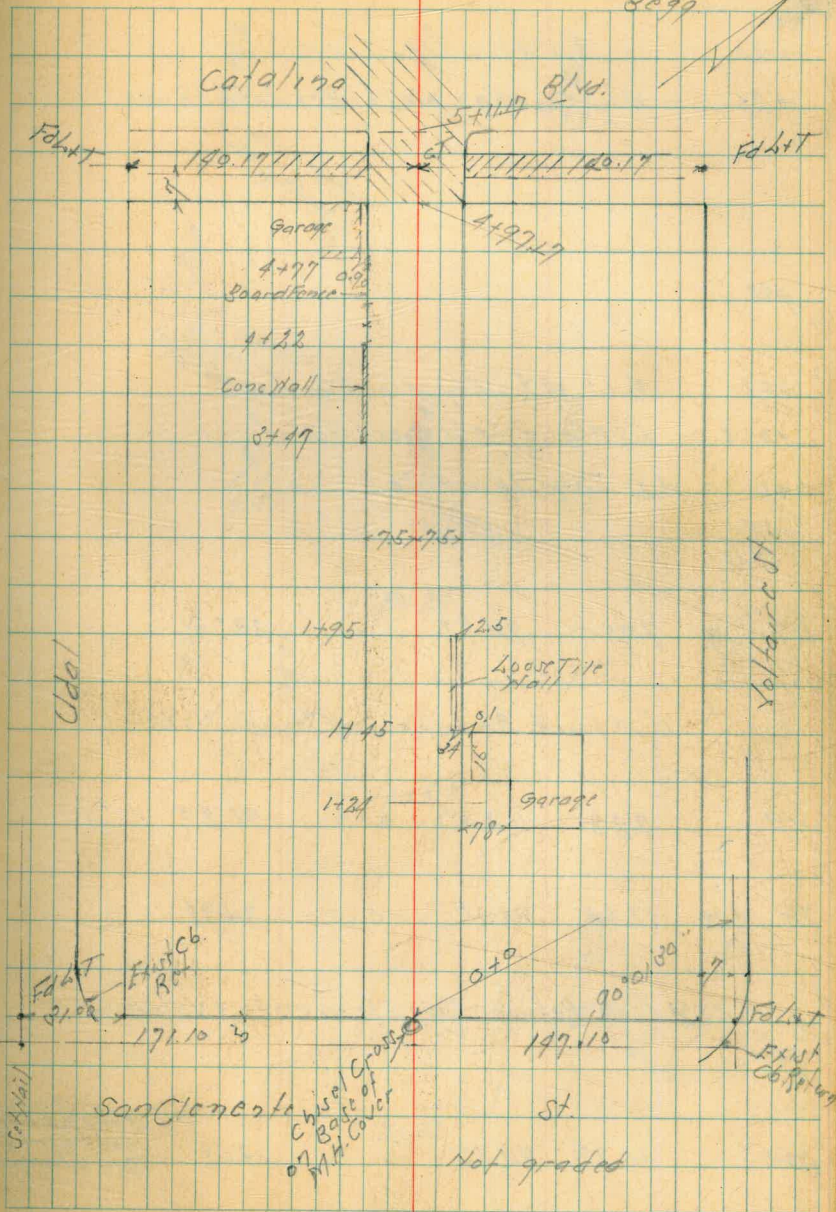
63

Cross Section Alley Block 5 Loma Alto #1
 From San Clemente to Catalina Blvd
 Between Udal & Valtore

Levels next page

Indexed
 C.S.K.

Jan 21-46
 S. Moran
 Osborne
 8099 64



+31 6.9 Rt. Wly Board Garage
 +21 = Wly Garage on Lt Beg. of Fence

+05

+02 8' Lt of 2 = Ely Board Garage
 +01.5 6.8 Rt of 2 = Ely Board Garage
 0+0 = H.L. San Clemente

TP 7.00 90.72 88.72

11.14 Curb Return San Clemente + Udal

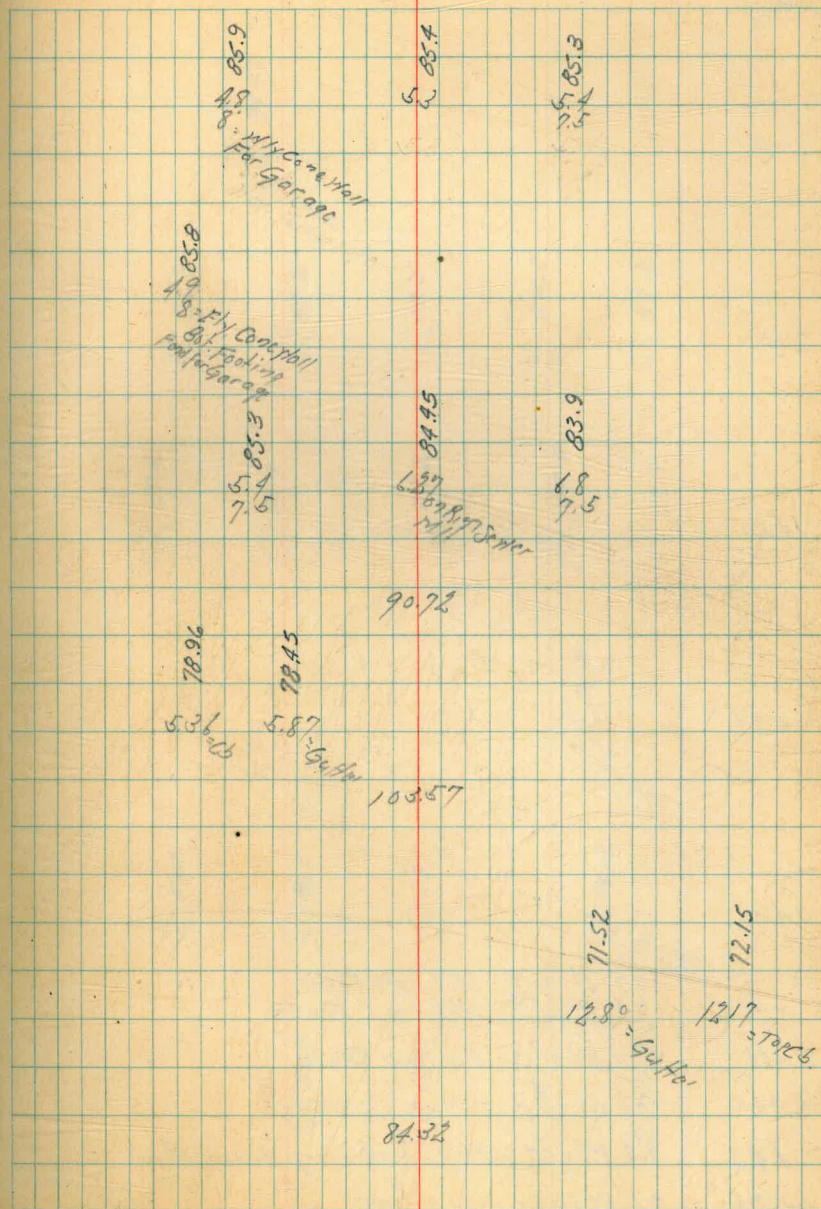
TP 7.28 103.57 90.9 96.29

TP 12.64 96.36 0.60 88.72

SW Curb Return San Clemente + Voltaire

BM 10.70 84.52 73.62

S.W. TOP of the
 Voltaire
 San Clemente



Rt

2

L

+41

2+0

+50

+21

1+0

- +96 77 Lt of L: Wly Lath Fence
 72 Rt of L: Wly Rail Fence
 +61 73 Rt of L: Fly Rail Fence
 +60 76 Rt of L: Wly Board Fence
 +43 72 Rt of L: Wly Shed + Bag Board Fence
 0+35 71 Rt of L: Fly Shed

90.72

6.58
1.15
84.47
Garage
Conc Floor6.58
1.156.58
1.156.58
1.156.58
1.156.58
1.156.58
1.156.58
1.156.58
1.156.58
1.156.58
1.156.58
1.15
84.20
Garage
Conc Floor6.58
1.156.58
1.156.58
1.156.58
1.156.58
1.15
Garage
Dirt Floor6.58
1.156.58
1.156.58
1.156.58
1.15

90.72

410

2+90

TP 3.17 70.10 12.37 66.93

3+47

TP 0.76 79.30 12.18 78.54

3+07

2+95

2+50

90.72

$$\begin{array}{r} 68.1 \\ 1.0 \\ \hline 7.5 \text{ Top Conc.} \\ 7.5 \end{array}$$

$$\begin{array}{r} 67.0 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 64.5 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 65.1 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 64.9 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 68.9 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 68.9 \\ 1.0 \\ \hline 7.5 \text{ Top Conc.} \\ 7.5 \end{array}$$

$$\begin{array}{r} 67.2 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 66.7 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 65.4 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 64.8 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 72.30 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 72.63 \\ 1.0 \\ \hline 7.5 \text{ Top Conc.} \\ 7.5 \end{array}$$

$$\begin{array}{r} 71.0 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 69.4 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 68.1 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 64.3 \\ 1.0 \\ \hline 7.5 \end{array}$$

79.30

$$\begin{array}{r} 80.2 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 80.1 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 79.4 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 78.7 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 76.5 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 84.4 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 83.9 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 80.4 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 80.0 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 79.4 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 85.5 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 83.5 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 82.7 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 82.6 \\ 1.0 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 81.0 \\ 1.0 \\ \hline 7.5 \end{array}$$

90.72

BM			3.81	86.70	NYSP Voltairex Belinas 86.56
JP	6.54	90.51	2.07	83.97	
JP	10.04	86.04	0.65	76.00	
JP	12.76	76.65	6.21	63.89	

5+11.17 = E Curb line Catalina

4+97.17 = E.L. Catalina

4+50

70.10

Lt.

L

Rt

68

2.1	2.43	2.7	3.0	3.2
680	67.67	67.55	67.32	67.08
2.5	2.55	2.78	3.0	3.2
67.6	67.55	67.32	67.08	67.17
2.5	2.55	2.78	3.0	3.2
67.4	67.32	67.08	66.2	65.9
2.7	2.78	3.0	3.2	3.2
67.4	67.32	67.08	66.2	65.9
2.7	2.78	3.0	3.2	3.2
67.4	67.32	67.08	66.2	65.9

70.10

Fan Store 17 - Sec 1580-28

Add. x sec^s of alley Blk. 60 Ocean Beach

N 58P	396	15.01	11.05	NEWPORT Bacon
	0-12			
S c6		4.41	10.60	
S Pav		5.04	9.97	
C "		5.13	9.88	
N "		5.15	9.86	
N c6		4.5x	10.47	
	0+00 E.L. Bacon			
N c6		4.20	10.81	
N Pav		4.31	10.70	
C "		4.73	10.28	
+9.33 Pav		4.35	10.66	
+9.85 S c6		4.20	10.81	
S +0.05 Con. Brick Bldg				
	0+05			
N +1.4 E 15" Tol. Pole				
	0+08.3			
S +0.1 E.L. x" Bldg. drain		3.75	11.26	
"	ground	4.4x	10.6	
C		4.4	10.4	
+7.3		4.3	10.7	
+7.4	on walk	3.96	11.05	
N	" "	3.92	11.09	

S. Moore
S. M. Moore
W. Moore

Begg 3-28-46

Indexed
C.S.K.

69

				15.01
T.P.	Cx9	17.14	4.36	10.65
	0+29			
S +0.1 E 3' down step		6.07		11.12
	0+40.8			
S +0.1 E 3' down step		6.05		11.09 also ground
	0+42			
N -0.75 on Con. walk		6.02		11.12
N +2.7		6.12		11.02
C		6.1		11.0
+9.9	ground	6.0		11.1
	0+44			
N	on walk Con Bldg	5.77		11.37
+2.7	" "	5.85		11.29
	0+46.8			
S +0.1 Con. Brick Bldg				
	0+47			
S	E 4x Con. walk	6.18		10.96 also beg. bridge
	0+50 end con. walk of Beg. Bd fence			
N +2.7	on walk	5.76		11.38
N	" "	5.7x		11.40
	0+58.5			
S +1.4 E 12" P.P.				
N	end Bd. fence			

0+60

S		5.2	11.9	
+3		5.6	11.5	
C		5.7	11.4	
N		5.7	11.9	
+43	W.L. 3 can Bd. gar	4.8	12.3	dirt fl.

0+88

N	-4.5 E.L. 3 can gar	4.9	12.2	"
	1+00			

-5		4.8	12.3	
N		4.9	12.2	
+0.4	Bag. Bd. fence	4.9	12.2	
C		5.0	12.1	
+6		5.1	12.0	
S	end salt hedge	4.3	12.8	needs trimming
+1.1	Bag. wire fence			
+5		4.5	12.6	

1+23

N + 1.4 E 8" 70.P.

1+25

S-30		5.0	12.1	
S-5		4.8	12.3	
S		4.2	12.9	
+5		4.9	12.2	
C		4.9	12.2	
C	+9.7 end Bd. Fence W.L. do. gar.	4.9	12.2	dirt fl.
N		4.9	12.2	

1+46

N + 1.7	E.L. do. gar.	4.8	12.3	dirt fl.
	1+55			
N + 0.8	W.L. do. gar	4.7	12.4	dirt fl.
C		4.6	12.5	
+6		4.5	12.6	
S		4.1	13.0	
+10		4.7	12.4	
+30		5.2	11.9	

1+74

S + 0.6	E.L. 10" P.P.			
	E.L.?			
N + 0.7	W.L. do. gar	4.7	12.4	dirt fl.
N + 0.1	W.L. Bd. shed			

1+80

S-0.7	end wire fence			
	1+95			
-30		5.3	11.8	
-10		5.1	12.0	
S		4.3	12.8	
C		4.1	13.0	
N	E.L. Bd. shed	4.2	12.9	also Bag. Bd. fence

2+04

N	End Bd. fence W.L. do. gar	4.2	12.9	dirt fl.
N		4.2	12.9	
C		4.0	13.1	
+8		4.1	13.0	
S		3.7	13.4	
+1.1	Can. Base of incinerator	3.4	13.7	
+3.8	" " N edge incinerator	3.4	13.7	

17.14
2

2+23				
N-3.7	E.L. do. gan.	4.0	13.1	dirt
2+24.5				
S-17.1	E 11.5' ^{con.} walk	3.26	13.88	
2+26				
N-5.3	W.L. do. gan.	3.6	13.5	dirt
2+30.3				
S-5.8	E Singal ^{WEST} entrance 3.31	3.31	13.83	Can. 6Lr
S-0.6	N.W. Cor. Singal			
S		3.4	13.7	
C		3.7	13.4	
N		3.4	13.7	
T.P.	4.91 <u>20.23</u>	1.82	15.32	theatre step
2+48				
N-5	E.L. do. gan	6.6	13.6	dirt
2+50				
-10		6.6	13.6	
-0.2	beg. picket fence		13.6	
N		6.6	13.6	
C		6.5	13.7	
+6		6.5	13.7	
S		6.0	14.2	
+0.5	N.E. Cor. Singal W. entrance			
+1.1	N.W. Cor. Theatre Bldg.			
2+62				
N +2.3	E 9" Tol. Pole			

20.23
2

71

2+63.8				
S-11	E 6' Pine door	4.90	15.3	door sill
2+75				
S-11	E 10' Hilde Exit	4.90	15.31	"
S	dirt	5.4	14.8	
+5		5.4	14.3	
C		6.1	14.1	
N		5.9	14.3	
+0.4	Beg. Lath fence			
+0.5	end picket "			
+10		6.5	13.7	
2+87				
S-1.1	E 6' Theatre door	4.93	15.30	door Sill
3+00				
-10		6.2	14.0	
N		5.9	14.3	
C	M.H. Rim	5.62	14.61	
S		5.4	14.8	
+1.1	N.E. Cor ^{theatre} Bldg			
3+06.5				
S-7	wedge con. incinerator			
3+22				
S-20	E 4' door to Bldg	5.46	14.77	SILL
3+23				
S+1	E 10" P.P.			

3+243

-15		5.7	14.5	
S		5.0	15.2	
C		5.4	14.8	
N		5.5	14.7	
+0.1 end back fence				
3+20				
N top	14' Bd. gan			dir. fl.
S-20	14' door to Bldg 5, 47	14.76		SILL
3+29				
N-0.2	13' Bd. fence			
3+50				
N		5.0	15.2	
C		5.2	15.0	
S		5.2	15.0	
+10		6.1	14.1	
+20	NE Cor Bldg.	6.3	13.9	
3+89				
S-40	14' Sdr door	5.25	14.78	fl. et.
3+65.5				
N-0.4 end Bd fence				
3+69				
S-4.1	NW Cor Stucco Bldg.	4.5	15.7	ground
S		4.7	15.5	
C		4.9	15.3	
N		4.9	15.3	

3+71

N-33	8' Singan	8.6 wide	4.7	15.5	Slab. Cor Floor
3+78					
N-6	W. dr. gar		4.7	15.5	Gravel Floor
3+98					
N-6	EL dr. gar		4.7	15.5	"
3+99					
N			4.3	15.9	
C			4.6	15.6	
S			4.3	15.9	
+4.1	NE Cor. Stucco Bldg		4.2	16.0	
4+04					
N+0.8 8" Tol. P.					
N-13 Beg. Bd. fence					
T.P.	3.74	22.69	3.28	16.95	
4+06					
S-40			6.9	13.8	
-10			6.3	14.4	
S			4.9	15.8	
C			5.0	15.7	
+7			4.9	15.8	
N			4.6	16.1	
4+18					
N			4.2	16.5	
+3			4.6	16.1	
C			4.7	16.0	

2069

S	5.0	15.7
+10	6.0	14.7
+40	6.0	14.7

4+25

N-1 end Bd fence
 N-1 Beg commercial water fence
 4+28

-40	4.2	16.5
S	4.5	16.2
C	4.6	16.1
N	4.3	16.4
+20	4.3	16.4

4+50

-15 LAWN	3.9	16.8
N	4.2	16.5
C	4.4	16.3
+9.1 E 14" P.P.	4.3	16.4
S	4.3	16.4
S +40		

4+55

S-40	5.0	14.7
-10	5.5	15.2
S	4.4	16.3
C	4.4	16.3
N	4.2	16.5
+20	4.0	16.7

2069

T.P.	46.7	21.85	3.91	16.78
------	------	-------	------	-------

5+00

-10 LAWN	4.5	17.0
N	4.7	16.8
C	4.9	16.6
S	4.9	16.6
+10	6.4	15.1
+40	6.6	14.9

5+20

S-0.13' New Con. Bldg.	5.2	16.3	ground
" " " "	4.3	16.82	Top Con. Fd.
S	5.2	16.3	
C	4.9	16.6	
N	4.7	16.8	
+20 LAWN	4.5	17.0	

5+29

N +24 12" Tel Pole

5+50

-20	4.4	17.1
N LAWN	4.5	17.0
C	4.8	16.7
S	5.1	16.4
	5+75	
S	5.2	16.3

73

STUB =
 5+20 ON
 N-1
 46.7

Contractor wants
 9' of alley
 on S.E. alley
 and 20' of

21.45

C		5.10	16.5
N		4.17	16.8
+15	LAWN	4.5	17.0
T.P.	4.90		
	✓		
	5+98.5	21.26	5.09 16.36
	N - OL end	arrived at W.L. Cable	
	5+99.85	= W.L. Cable	
N	Top cb.	5.02	16.24
N	pay	5.21	16.05
C	"	5.61	15.65
S	"	5.16	16.10
S	Top cb total	4.91	16.35
	+0.85		OLD IS OUT
S	cb to be	5.06	16.20
S	pay	5.26	16.00
+2	"	5.53	15.73
C	"	5.78	15.48
N	"	5.31	15.95
N	Top cb	5.11	16.15
	+0.9		
N	Top cb	5.13	16.13
N	pay.	5.48	15.78
+5	"	5.75	15.51

21.26

74

C	pay	Water hole	5.79	15.47
+5	"		7.70	13.56
S	"		5.53	15.73
S	Top cb.		5.14	16.12
		+11.85 = W.L. Cable		
S	-10	Top cb	5.36	15.90
"	"	pay	5.75	15.51
S	Top cb		5.24	16.02
"	"	pay	5.72	15.54
C	"	duck pond	5.73	15.53
+5	"		5.70	15.56
N	"		5.67	15.59
N	Top cb		5.19	16.07
+10	"	"	5.21	16.05
"	pay.		5.64	15.62
		+20.85		
N	-10	pay	5.17	16.09
N	"	"	5.21	16.05
C	"	"	5.27	15.99
S	"	"	5.30	15.96
+10	"	"	5.27	15.99

check to NEBP New port cable 5.24 16.02 16.01
0.04

Here, will you call Tally Barnes
out this duck pond.
alley on east side needs fixing also

Levels and Cuts for drain on
N. side of El Cajon Ave.
E of Rehanda Blvd.

SWBP	1.33	453.79		452.46
T.P.	0.21	441.17	12.88	440.91
T.P. Cross on curb	1.93	436.21	6.84	434.28

Top curb & 10' inlet	1.94	439.27		
" grate, gutter	2.97	433.29		
Bot. inlet Box.	8.25	427.96		
8' N of inlet Proposed cleanout	1.7	439.5 = ground		
" " " "	8.95	427.26 F.L. EX.	18" Conn. P.	

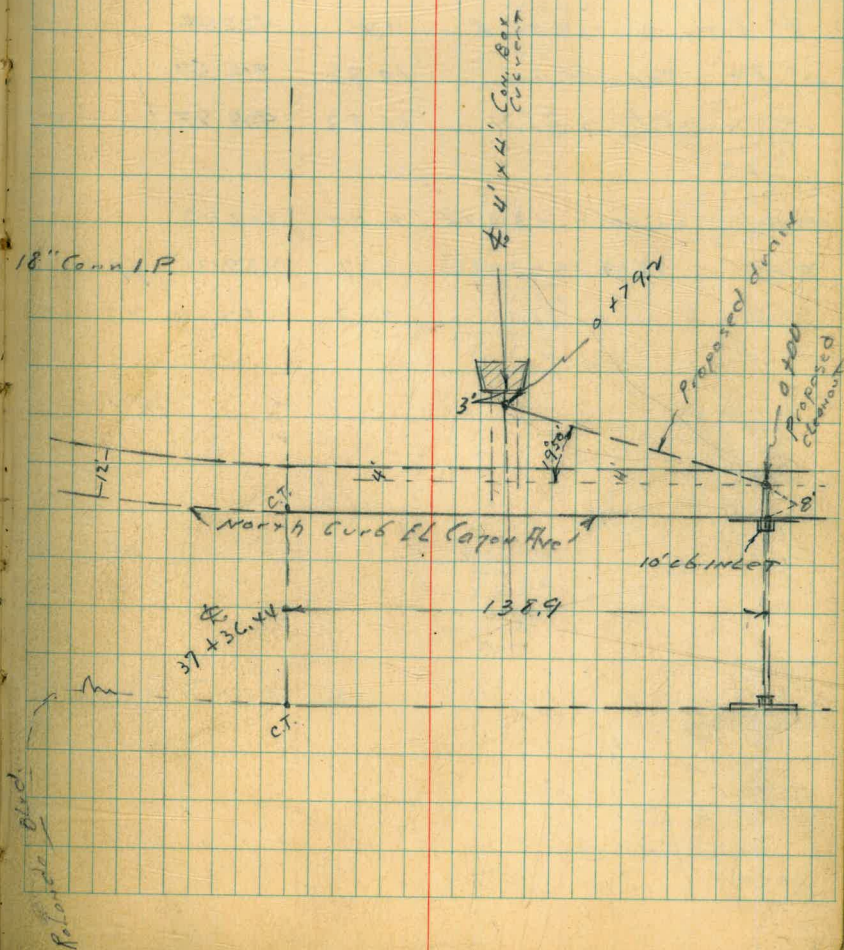
0+00 = Proposed Cleanout				Grade Bottom of Pipe.
Ground	1.7	439.5		
0+08 E				
ground	1.3	439.9		
0+25				
E ground	7.6	428.6		
8' LT. cut stub	3.01	433.20	21.56 + 1164	
0+45				
E ground	12.7	423.5		
8' LT. cut stub	7.15	429.06	17.36 + 1170	
T.P.	3.01	426.50	12.72	423.49 ✓

indexed
c.s.k.

75

C. P. Adams
San Antonio, Tex.
6-11-46.

Note: Please figure cuts
from the 8' LT. cut stub
for Telling Bridges.



426.50 ✓

0 + 60

⊕ ground	5.9	420.6	
8' LT. CUT STUB	0.50	426.00	14.21 + 1179

0 + 79.2 = 3' back of Hd. wh.

⊕ ground	9.5	417.0
8' LT. CUT STUB	4.26	422.04
3' Kt. Top Hd. wh.	10.93	415.57
" " Fil. ^{CON} Box culv.	16.53	409.97

T.P.	12.00	439.28	0.07	426.48
T.P.	13.34	452.65	0.17	439.31
check to orig. B.M.		0.16	452.49	452.46

CUTS ON CULVERT

set nails side of ditch

7-1-46

CSMC

Bogg

Allen

76

B.M. P. 75 434.28

0 + 00 = Box	437.24 = T
	<u>12.83</u>
	424.41
	<u>1.99</u>
	426.40

427.26

9.98 ✓

0 + 10

426.20

11.04

1.00X

C 1.0

0 + 25

424.57

12.67

11.67

C 1.0

0 + 40

422.08

4.32

3.32

C 1.0

0 + 55

418.72

2.68

6.58

C 1.0

0 + 70

414.50

11.90

11.90

0.0

0 + 77.1 Con. to Culv

412.30

14.10

11.70

C 2.40

ON TOP Box drain

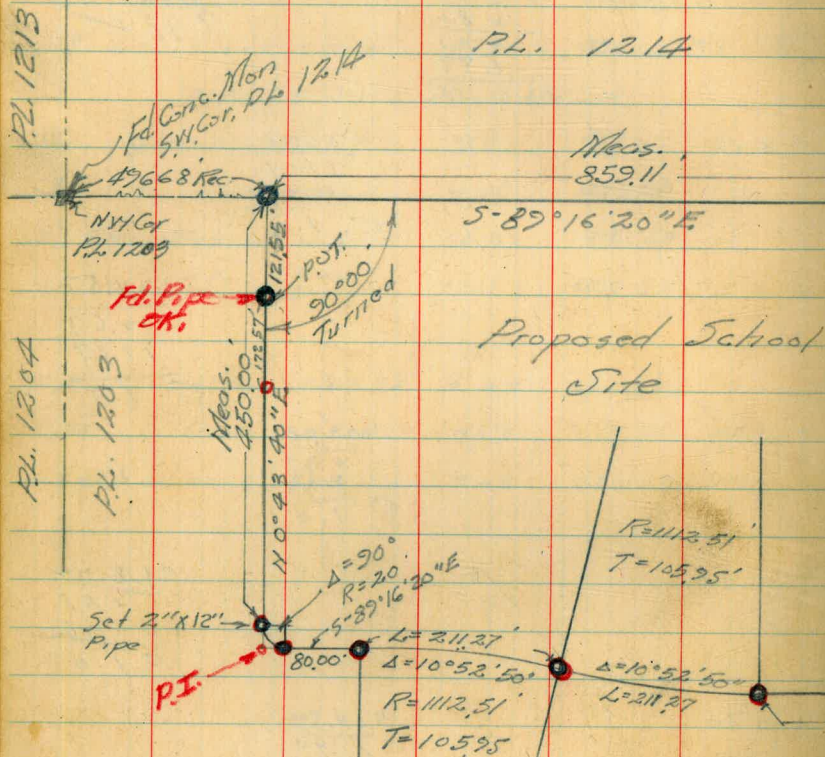
Elementary
SURVEY PROPOSED SCHOOL SITE

17 Pueblo Lot 1203

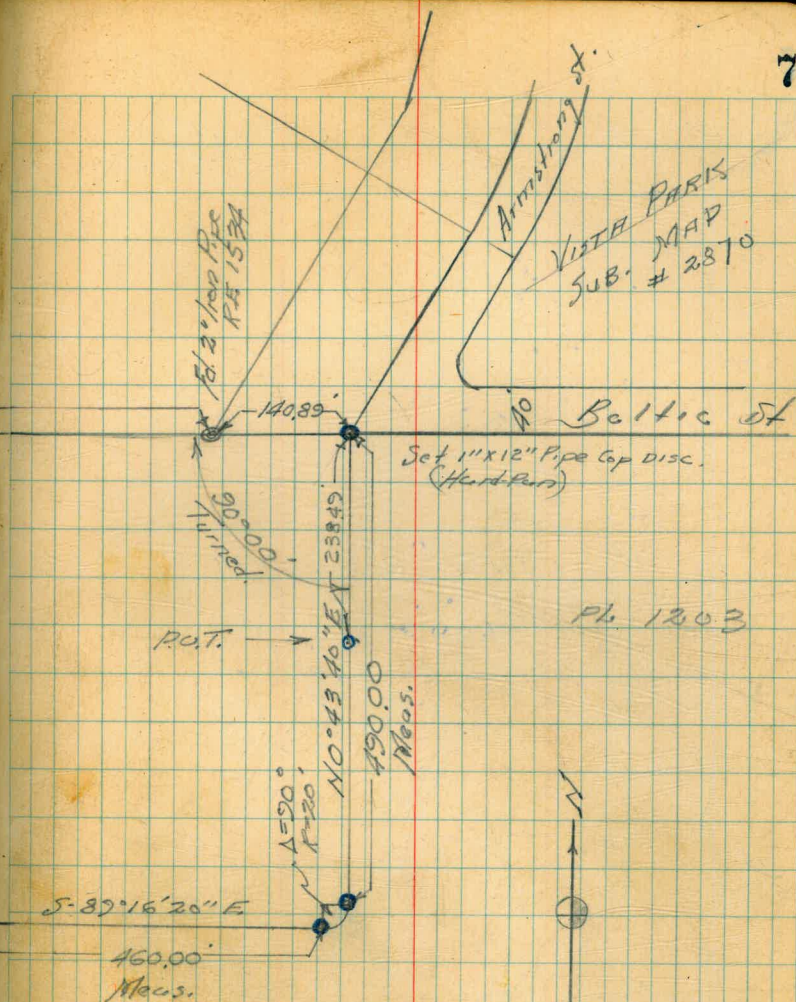
Walker
Pope
Huffman
Presby

11-17-52

With Corbett
= Set 1" X 24" Iron Pipe & Cop. Disc
City Engr.
NO 30006



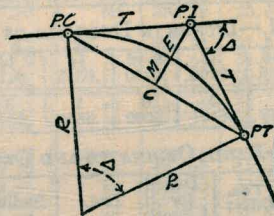
• = Pipes Destroyed by Grading
Set 1/2" X 12" Iron Pipe
Walker
Pope
Huffman
Presby 5-6-54



INDEXED
NOV 10 1952

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

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CURVE FORMULAS

Radius $= R = \frac{50}{\sin. \frac{D}{2}}$ (1) Degree of Curve $= D$ and $\sin. \frac{D}{2} = \frac{50}{R}$ (2)
 Tangent $= T = R \tan \frac{\Delta}{2}$ (3) Length of Curve $= L = 100 \frac{\Delta}{D}$ (4)
 Middle ordinate $= M = R(1 - \cos. \frac{\Delta}{2})$ (5) $= R \text{vers} \frac{\Delta}{2}$ (6)
 External $= E = T \tan \frac{\Delta}{4}$ (7) $= R \div \cos. \frac{\Delta}{2} - R$ (8) $= R \text{exsec} \frac{\Delta}{2}$ (9)
 Long Chord $= C = 2 R \sin. \frac{\Delta}{2}$ (10) $\Delta =$ 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 $\div 8\frac{1}{2} = 414.49$ ft. From Table V correction = .36 or $T = 414.85$ ft. P. C. = Sta. P. I. - $T = 157 + 45.50$. Also from (4) $L = 746.00$ and P. T. = Sta. P. C. + $L = 164 + 91.50$.

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

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

Externals.—May be found in similar manner to tangents. Thus E for curve above is 115.37. For from Table IV for 1° curve $E = 960.6$ for $8^\circ 20' = 960.6 \div 8\frac{1}{2} = 115.27$ 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 $D = 5^\circ 30'$.

500' Topo
 100' - Pull
 12#
 200' - 18#
 300' - 25#
 400' - 26#

300' Topo
 100' = 22#
 200 = 26# = 209.7
 200 = 37# = 200.0
 300 = 30# 0.13

8139 25°
 212
 3.9

163
 58
 108

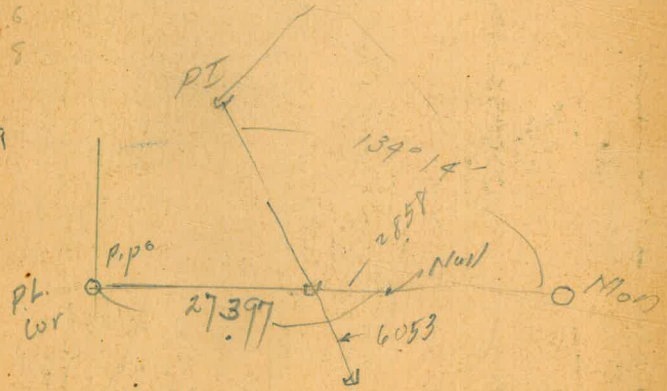
51+00 5' H

160.85
 29.78
 131.07

50+50 7'

12.2
 4.6
 76.9

4023
 2266
 9259



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.