

Dr. 9 BK. 16

OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY, MINN.

____ Survey

Silver Lk. Rd. & Co. Rd. D

From Borrow Pit To R.R. x-ing.

Road Acc't. No. _____

Date Filed _____

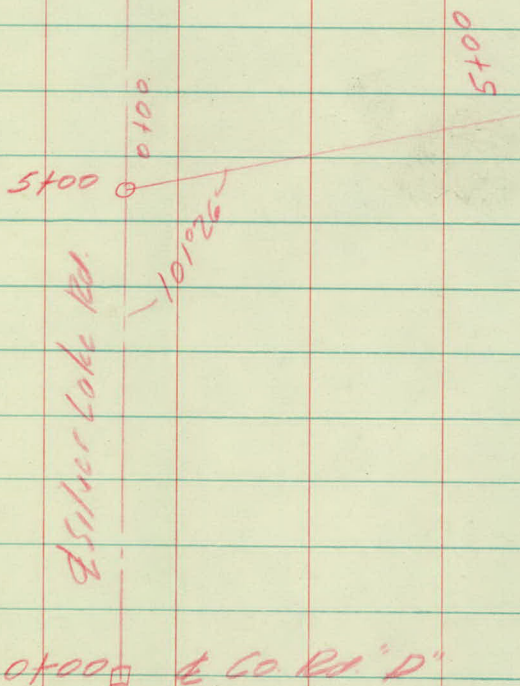
File Dr. 9 Bk 16

Silver Lake Rd

+

Co Rd D to RR X-ing

Borrow Pit



Sta	+	π	-	Elev
BM	2.34	961.59		959.25
TP	4.11	955.11	10.59	951.00
0 + 70				47.0
✓				
1				48.2
✓				
+ 40				48.0
+ 70				
TP	6.26	957.26	4.11	951.00

FA
LO
RG
JC

Lt

June 25, 1956
Partly Cloudy 79°
Rt

2

Angle Iron Base E pillar P.P. NE Cor D^t ^{Silver Lake Rd}

on RR Bridge Flag

48.3	47.7	46.4	46.6	47.6	48.0	48.4	43.4	45.27
6.8	7.4	8.7	8.5	8.1	7.5	7.1	6.7	11.7 9.84
70	55	36	17	16	30	37	48	55

N Rail

50.1
5.0
76
50.1
5.0
89
46.0
91
100
Ent



46.0	46.8	46.3	47.3	48.2	48.8	49.6	49.8	43.0
9.1	8.3	8.8	7.8	6.9	6.3	5.5	5.3	12.1
82	63	34	13	10	23	31	44	

43.7
11.4
100



45.09
10.02
51.6
N Rail

42.2	43.1	44.5	46.6	48.0	49.2	50.3	42.7	44.80
12.9	12.0	10.6	8.5	7.1	5.9	4.8	12.4	10.31
77	56	37	14	14	26	39		2.

N. Rail

44.1	42.2	44.1	45.9	47.1	47.8	42.4	44.64
14.0	12.9	11.0	9.2	8.0	7.3	12.7	10.47
71	44	20		14	23	34	41.6



on PR Bridge Flag

Rail

Sta	+	π	-	Elev
-----	---	-------	---	------

		957.26		
--	--	--------	--	--

2				
---	--	--	--	--

			47.4	
--	--	--	------	--

+30				
-----	--	--	--	--

			50.6	
--	--	--	------	--

+60				
-----	--	--	--	--

			53.2	
--	--	--	------	--

FR
RG
JD
BH

4

July 16, 1956
Clear Pleasant 76°

3

43.8

44.7

45.9

47.7

47.8

42.7

44.43

135
48

126
35

114
15

9.9
10

9.6
19

9.5
29

14.6 12.83
37
Rail

43.0

42.6

14.3
70

14.7
100

✓

49.4

48.7

48.7

49.0

50.8

42.1

44.27

79 8.6 8.6 8.3 6.7 6.5 15.2 12.99
40 33 26 12 12 25 32
Rail

47.9

46.9

46.6

52.6

52.6

43.5

45.20

9.4 10.4 10.7 4.7 4.7 13.8 12.06
55 72 90 100 90 62 53
Rail

43.8

44.8

45.9

53.7

52.7

53.2

54.1

13.5 12.5 11.4 3.4 4.6 4.1 3.2
133 115 100 119 141 162 184

✓

50.2 50.9
71 6.4
36 21

51.0

52.6

53.0

42.1

55.5
1.8
200
44.12
✓
13.14
27
Rail

6.3 4.7 4.1 4.3 15.2 13.14
8 5 5 19 27
Rail

Sta + π - Elev

95726

2+60

✓

✓

3

50.5

July 16, 1956

11

BT

A

48.8	49.6	51.2	51.5	45.02	42.9	47.7
8.5	7.7	6.1	5.8	12.24	14.4	9.6
88	71	52	39	50	57	68

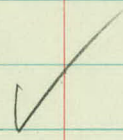
Rail

→ 48.2
9.1
100

46.6
10.7
117

44.9
12.4
136

42.2
15.1
60



56.7	52.9	53.2		42.0	43.85	44.81
6.6	4.4	4.1	6.8	15.3	13.41	12.45
17	12	4		11	19	41

Rail / Rail

→ 49.5
7.8
44

50.2
7.1
53

48.6
8.7
70

47.6
9.7
86

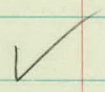
48.0
9.3
60

42.7
14.6
50

43.1
14.2
135

44.7
12.6
118

46.4
10.9
100



Sta + π - Elev

957.26

3+50

41.5

✓

✓

4

BM

0.37 956.89

TP

6.80 951.24 12.82 944.44

July 16, 1956

Lt

Rt

5

+8.3

+9.7

+5.3

+3.54

+4.50

+2.5

9.0

7.6

6.0

15.8

13.72

12.86

14.8

49

30

14

8

30

39

Rail

Rail

+7.0

+6.0

+4.9

+2.0

10.3

11.3

12.4

5.3

71

87

100

53

+1.9

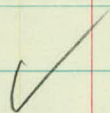
+3.9

15.4

13.4

133

114



+7.7

+8.8

+1.0

+3.11

+4.17

+2.0

+8.8

9.6

8.5

16.3

14.15

13.09

15.3

8.5

37

23

10

3

20

29

40

Rail

+6.7

+5.8

+4.8

10.6

11.5

12.5

51

66

84

+3.2

+4.2

14.1

13.1

112

100

Top Mile post 46



Sta + π - Elev

951.24

A+50

43.3

✓

✓

5

42.5

✓

+50

44.7

£ July 16, 1956

2x

46.1

40.6

42.78

43.83

41.8

46.7⁶

5.1

10.6

8.46

7.9

7.41

9.4

4.5

33

24

15

7

16

26

Rail

Rail

45.5

43.8

42.4

41.5

5.7

7.4

8.8

9.7

47

61

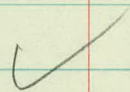
78

91

40.9

10.3

100



40.4

42.39

43.53

41.4

45.4

47.5

49.4

10.8

8.85

7.71

8.7

9.8

5.8

3.7

1.8

37

29

6

3

13

27

42

Rail

43.4

42.9

42.8

41.6

40.7

50.8

49.7

7.8

8.3

8.4

9.6

10.5

0.4

1.5

45

58

76

91

100

71

54

42.05

43.17

41.0

45.0

45.0

47.4

48.1

48.5

9.9

8.7

10.2

6.2

6.5

6.2

3.8

3.1

2.7

44

21

12

5

8

6

10

19

29

Rail

39.9

43.2

42.3

41.0

38.2

49.7

48.4

11.3

8.0

8.9

9.4

13.0

1.5

2.8

52

59

73

90

100

70

48

Sta + π - Elev

951.24

b

41.4

BM

5.94 956.94 0.24 951.00

/

✓

+ 40

2 July 16, 1956

	42.80	41	40.5	42.8	41.6	41.8	41.7	41.7	42.0
8.44	10.7	8.4	9.6	9.8	9.4	9.5	9.5	9.2	
36	27	21	9		11	18	43	68	
Rail									

	41.58	39.9	41.5	39.9
9.66	11.3	9.7	11.3	
59	67	73	81	
on RR Bridge	Flag			

	45.86	43.9	45.8	45.2
11.08	13.0	11.1	11.7	
73	81	86	100	
Rail				

	45.9	46.9	47.3	47.2
11.0	10.0	9.6	9.7	
149	142	130	115	
Edge				
sup.				

	45.66	43.4	46.1	45.4
11.28	13.5	10.8	11.5	
31	77	83	91	
Rail				

	47.0	48.1	49.6	50.6	47.5
9.9	8.8	7.3	6.3	9.4	
132	118	116	107	100	

46.6
10.3
144

Sta + π - Elev

956.94

1+70

✓

2

✓

+60

BM 7.19 964.07 0.08 956.86 956.88

2

July 16, 1956

	5.51	3.3	6.0	5.0	5.6	8
	11.43	13.6	10.9	11.9	11.3	
	65	73	79	88	99	
✓	Rail					
	7.4	7.9	8.7	9.8	50.2	50.4
	9.5	9.0	8.2	7.1	6.7	6.5
	148	133	120	115	109	103
						100

	5.36	3.2	6.2	5.9	5.4	5.6
	11.58	12.7	10.7	11.0	5.5	5.3
	60	69	74	88	96	100
	Rail					
✓	7.7	8.7	9.8	50.2	5.1	5.1
	9.2	8.2	7.1	6.7	5.8	5.8
	200	186	166	150	136	121
						111

	52.5	53.9	54.6	54.4	56.4	54.7
	44	3.0	2.3	2.5	0.5	2.2
	79	93	100	109	114	121

	57.4	55.1	55.0	54.8
✓	10.5	1.8	1.9	2.1
	196	166	154	136

Top Mile Post #6

Sta + A - Elev

964.07

3

✓

+50

✓

A

2

July 14, 1956

8+

9

56.7	57.4	57.3	57.5	57.8	59.0
7.4	6.7	6.8	6.6	6.3	5.1
80	90	100	119	136	156

60.5	59.8
3.6	4.3
200	179

58.4	59.9	59.1	59.1	58.9	59.2
5.7	4.2	5.0	5.0	5.2	4.9
71	79	100	121	139	165

60.5
3.6
200

54.9	56.3	56.8	57.3	57.7	57.7
9.2	7.8	7.3	6.8	6.4	6.4
58	68	86	100	119	146

58.2	58.1	57.8
5.9	6.0	6.3
200	194	171

Sta + π - Elev

964.07

4+50

✓

5

BM

4.82959.25 (959.25)

2

July 16, 1956

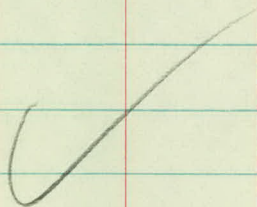
BT

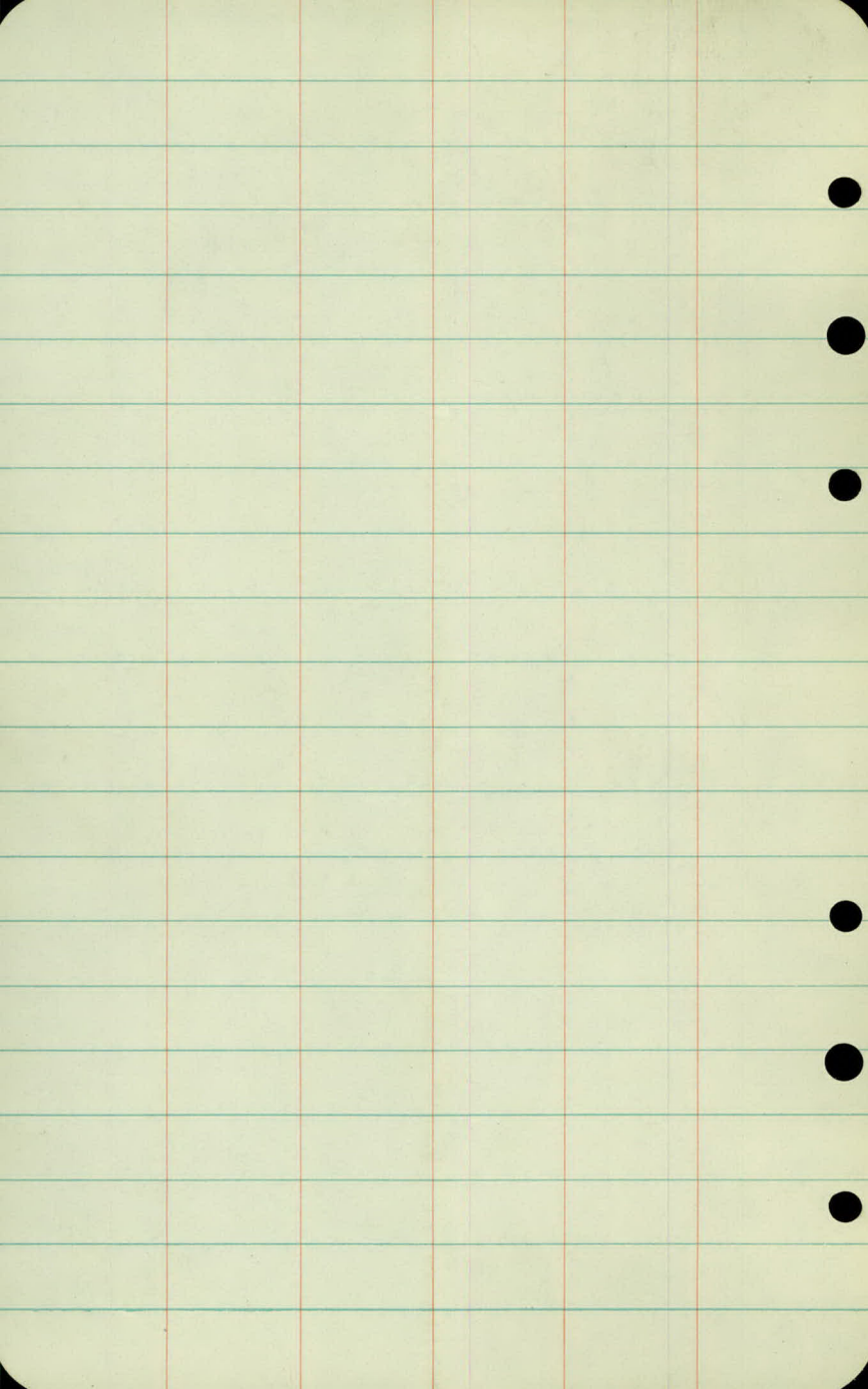
52.4	53.6	53.0	54.0	54.5	55.2
11.7	10.5	11.1	10.1	9.6	8.9
45	55	63	84	100	113

56.9	57.1	56.9	56.3
72	70	72	7.8
200	186	159	135

51.8	53.2	54.2	55.1
12.3	10.9	9.9	9.0
85	100	115	125

Top Angle iron Base - E Pillar PP NE Cor "D" Lake
S. 100 ft
1956





Silver Lake Rd

E Profile

from

700' So. of $7\frac{1}{2}$ St. N.W.

to

250' No. of $7\frac{1}{2}$ St. N.W.

plotted.

Sta.	+	π	-	Elev.
B.M.	5.57	105.57		100.00
0 +00			6.8	98.8
+50			5.9	99.7
1			5.1	100.5
+50			4.6	101.0
2			3.8	101.8
+50			3.2	102.4
3			3.0	102.6
+50			2.6	103.0

8-23-56

1

Top Hyd. N. E. Cor. $7\frac{1}{2}^b$

Sta.	+	π	-	Elev.
		105.57		
4			2.4	103.2
	+50		2.2	103.4
5			1.9	103.7
	+50		1.7	103.9
6			1.9	103.7
	+38 $\angle$ St. Lt		2.4	103.2
	+75		3.2	102.4
7 = 9				
	+18 Main X 5 $\angle$			
	+50		6.2	99.4

7

2

E

2

101.6

101.3

99.5

97.3

94.1

92.2

90.0

87.7

4.0 4.3 6.1 8.3 11.5 13.4 15.6 17.9
11 28 50 81 100 125 150

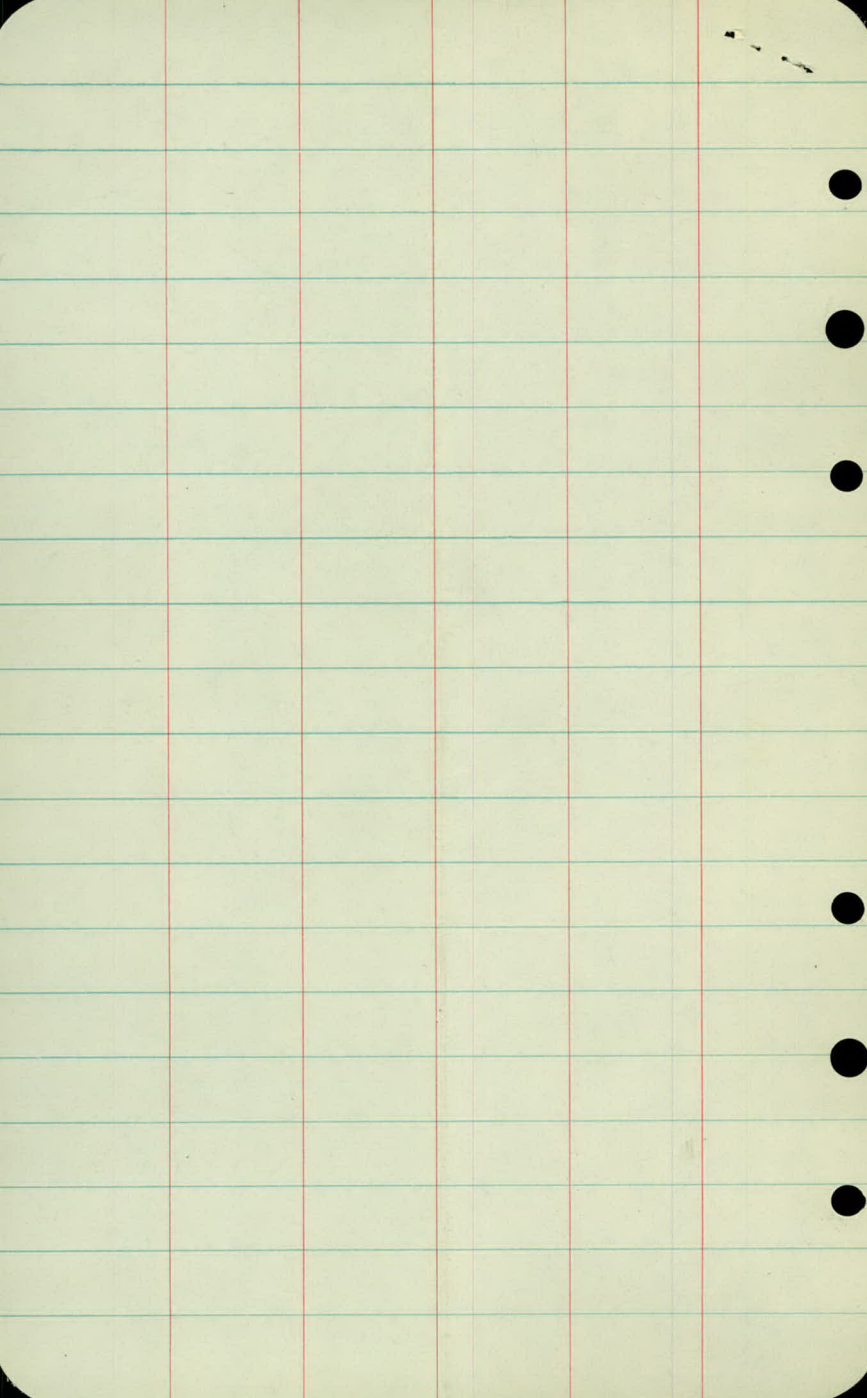
Sta.	+	π	-	Elev.
		105.57		
8			8.8	96.8
	150		11.6	94.0
9			14.4	91.2
	150		16.3	89.3
10				

L

E

R

3



1
Silver Lake Rd

Ce Rd D-No.

Profile

Plotted

10/55

96.5.0

Sta	+	π	-	Elev
BM	12.12	971.37		959.25

2				66.27
---	--	--	--	-------

3				65.57
---	--	--	--	-------

+50				66.89
-----	--	--	--	-------

+66				67.58
-----	--	--	--	-------

A+03				69.77
------	--	--	--	-------

+235				69.90
------	--	--	--	-------

FA
AM
LC
WJ

Oct 29, 1955

2

Top Bottom Angle Iron base East Pier
of Tower N.E. Cor Co Rd "D" ^{Silver} _{to KC} Road

5.1

965.57

5.80

4.48

3.79

1.60

1.47

Sta	+	π	-	Elev.
		971.37		
A+44				69.84
A+75				67.76
5				66.14
150				62.50
3+665	Face of Backing			60.87
A+74.5	Face of Backing			61.97
T.P.	0.78	958.62	13.53	957.84

Oct. 20, 1955

3

Lt

Rt

1.53

3.61

5.23

8.87

10.5

9.4

Sta + π - Elev

958.62

3+85 Under bridge 54.42

+86

25.8

11.5

51.72

4+06

46.32

+11.8

23.4

35.2

S. Rail

46.54

+17.0 N. Rail

46.36

18.2

23.4

+30.0 S. Rail

46.07

£ Oct 24, 1925

4

14

84

4.2

6.9

12.3

12.08

12.26

12.55

Sta + π - Elev

958.62

A+35.2 N. Rail

45.88

+39 Under Bridge

45.72

+58

"

"

53.27

+59

"

"

55.42

~~56.84~~

70.97

A+14.4 Elev. Bottom ^{of} Stringer & S. Track

76

+32.6 Elev. Bottom ^{of} Stringers & N. Track

70.95

7

TP 12.55 967.22 3.95 954.67

BM

7.92 959.30 959.25

Oct 20, 1955

5

Lt

Rt.

12.74

12.9

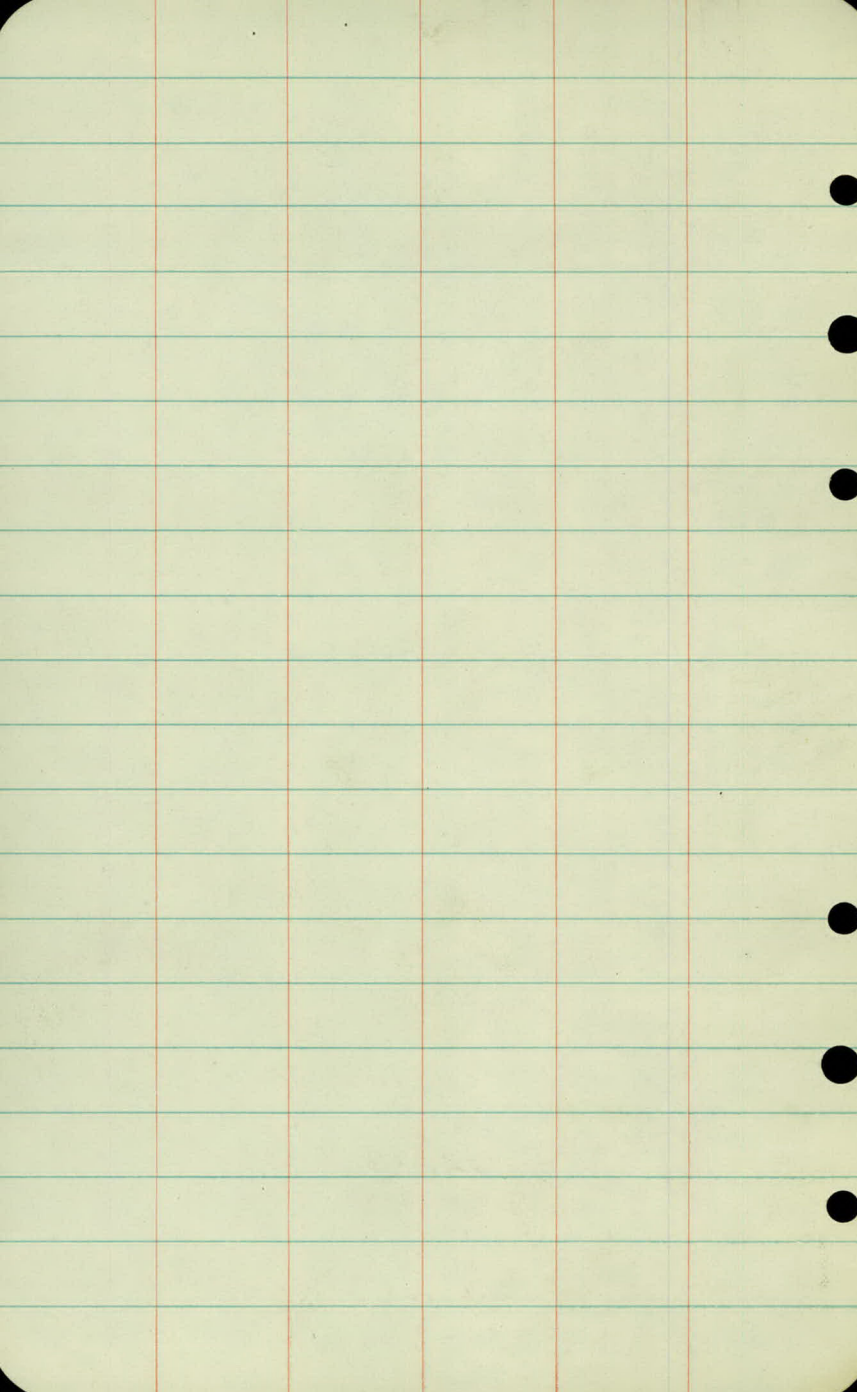
5.35

3.2

+12.35

+12.33

Top Bottom Angle iron base East Pier of Tower
N.E. Cor. Ca Rd. "D" + Silver Lake Rd.



1
SILVER LAKE ROAD

Co Rd "D" to 900' No

x-sections

10 pages

Sta	+	π	-	Elev
-----	---	-------	---	------

BM	10.96	970.21		959.25
----	-------	--------	--	--------

TP	7.77	975.68	2.30	967.91
----	------	--------	------	--------

0+00

+19

+34

+65

/

FK
AM
LC
JB

Oct. 25, 1955

2

LT

RT

Top Bottom Angle iron base east Per
of tower NE Cor Co Rd D + Silver Lake Rd.

11.1	12.4	12.9	13.3	13.8	14.9	14.5	13.0
4.6	3.3	2.8	2.4	1.9	0.8	1.2	2.7
100	50	25		33	50	100	150

10.5	11.1	12.1	12.2	12.3	12.8	13.1
5.2	4.0	3.6	3.5	3.4	2.9	2.6
50	32	13		18	38	50

69.9	70.2	70.5	70.8	71.1	71.1	70.8	70.3	69.6	70.5
5.8	5.5	5.2	4.9	4.6	4.6	4.9	5.4	6.1	5.2
50	47	31	19	8		11	18	20	21

14.0	13.3
1.7	2.4
50	31

69.2	68.4	69.1	69.4	68.9	68.3	68.0	70.9	70.0	70.0
6.5	7.3	6.6	6.3	6.8	7.4	7.7	4.8	27.2	27.2
50	27	14		10	18	24	32	42	50

68.3	67.9	67.0	67.9	68.0	67.6	66.3	66.3	68.9	70.4	70.5
7.4	7.8	8.7	7.8	7.7	8.1	9.4	9.4	6.8	5.3	5.2
50	3.8	19	11		15	17	28	32	38	50

Sta + π - Elev

975.68

1+50

✓

TP 2.96 969.24 9.40 966.28

2

+50

✓

3

FK
AM
JB

Oct. 25, 1955
Oct. 26, 1955

3

65.0 65.0 66.2 66.7 66.9 66.6 66.3 66.9

10.7 10.7 9.5 9.0 8.8 9.1 9.4 10.8
37 20 16 11 10 16 20

65.4

10.3

50

Sta 2.2

66.0

65.3

9.7 10.4

50 32

63.0

60.6

59.5

60.6

65.9

66.28

66.0

65.4

64.1

61.6

61.2

6.3 8.7 9.8 8.7 3.4 2.96 3.3 3.9 8.2 7.78
76 44 30 27 14 11 18 21 41 66

56.4

57.7

64.4

65.2

65.7

65.3

64.6

60.0

55.2

12.9 9.6 4.9 4.1 3.6 4.0 4.7 9.3 14.1
34 25 16 12 13 17 28 41

56.0

56.6

13.3 12.7

46 75

53.1

53.8

16.2 15.5

77 58

53.9

64.4

65.1

65.6

65.2

63.6

59.2

15.4 4.9 4.2 3.7 4.1 5.7 10.1
16 11 12 19 34

?

Sta + π - E/ev

969.24

3+50

+66 Abutment

+67 Abutment

TP 2.69 968.84 3.09 966.15

4+75 Abutment

+76 Abutment

5

Oct. 26, 1955

Lt

Bt

A

58.8	66.1	66.8	66.9	66.7	66.9	65.5	56.4
10.5	3.2	2.5	2.4	2.6	2.4	3.8	12.9 ✓
31	17	8		9	11	18	35

56.1	63.1	66.7	67.6	67.6	67.6	66.8	62.3	57.6
13.2	6.2	2.6	1.7	1.7	1.7	2.5	7.0	11.7 ✓
34	21	16	8		8	12	17	29

56.1	63.1	60.8		60.0	61.6	57.5
13.2	6.2	8.5		9.3	7.7	11.8 ✓
34	21	?		9.5	22	29

58.1	62.8	62.4		61.7	63.2	60.3
10.7	6.0	6.4		7.1	5.6	8.5 ✓
32	23	9.5		11.5	18	26

58.1	62.8	66.8	67.4	67.7	67.6	66.8	63.2	60.3
10.7	6.0	2.0	1.4	1.1	1.2	2.0	5.6	8.5 ✓
32	23	16	12	9	10	15	18	26

56.4	65.7	66.0	66.1	65.9	66.1	55.8
12.4	3.1	2.8	2.7	2.9	2.7	12.0 ✓
35	15	9		10	16	36

Sta + π - Elev

968.84

5+50

6

~~12.85~~

~~2.94~~

2.94

958.93

12.85

955.99

+50

7

Oct. 23, 1955

5

Lt

Rt

56.8	61.9	62.3	62.4	62.0	61.1	55.4
12.0	6.9	6.5	6.4	6.8	7.7	13.4 ✓
25	18	11		11	17	29

55.1	57.0	58.6	58.9 59.9	58.7	58.3	55.8
13.7	11.8	10.2	8.9	10.1	10.5	13.0 ✓
22	17	11	9.9	11	19	29

47.3	54.8	55.7	55.9	55.4	54.9	51.2	46.8
11.6	4.1	3.2	3.0	3.5	4.0	7.7	12.1 ✓
32	17	11		11	16	23	33

42.5	40.3	40.5	42.1
16.4	18.4	18.4	16.8
46	63	67	44
Fe			

41.8	40.1	52.7	53.6	53.9	53.6	53.3	49.1	41.8
17.1	12.8	6.2	5.3	5.0	5.3	5.6	9.8	17.1 ✓
39	20	17	11		10	15	24	40
Fe								

41.3	41.5	37.4	37.8
17.6	17.4	21.5	21.1 ✓
51	70	70	59

Sta	+	X	-	Elev
-----	---	---	---	------

		958.93		
--	--	--------	--	--

7+50				
------	--	--	--	--

✓				
---	--	--	--	--

8				
---	--	--	--	--

✓				
---	--	--	--	--

+50				
-----	--	--	--	--

2 Oct 26, 1955 6

L+

BT

44.3	51.8	52.7	52.9	52.2	51.1	46.1	40.3
14.6	7.1	6.2	6.0	6.7	7.8	12.8	18.6
31	16	12		13	16	27	41
Fe							

44.5	47.4
14.4	11.5
45	61

38.3
20.6
55 ✓

48.2	47.7	51.6	52.3	52.4	52.2	51.6	41.6	39.3
10.7	11.2	7.3	6.6	6.5	6.7	7.3	17.3	19.6
29	23	16	12		10	16	35	56
Fe								

48.8	50.5
10.1	8.4
41	66

51.8	50.9	50.5	50.7	52.3	52.4	52.3	52.0	49.0	49.0	50.9
7.1	8.0	8.4	8.2	6.6	6.5	6.6	6.9	9.9	9.9	8.0
61	45	29	18	14		11	15	21	23	29
Fe										

50.1
8.8
55 ✓

Sta + π - Elev

958.93

9 $\pm$ Ent Right No Culvert

✓
4+75 476

5

+50

6

TP 7.33 958.74 7.52 951.41

Oct 26, 1955

7

LT

RT

50.6

50.4

52.1

52.4

52.4

52.3

52.0

51.5

84 8.5 6.8 6.5 6.5 6.6 6.9 7.4
29 22 17 12 9 15 24
Fe

51.1

50.6

50.7

78
50

8.4 8.2
51 40

43.7

45.6

46.3

15.2 13.3 12.6
90 74 57
Fe

42.2

45.5

46.8

16.7 13.4 12.1
93 68 58
Fe

41.9

44.0

46.0

17.0 14.9 12.9
75 60 52
Fe

41.9

43.7

45.4

53.5

17.0 15.2 13.5 5.4
72 52 46 27
Fe

Sta + π - Elev

958.74

3

+50

+66+67

3+85 Under bridge

+86

A+0A Parallel to Tracks

Lt

Oct 26, 1925

8

RT

52.1

52.9

6.6 5.8

66 43

✓

46.7

48.4

12.0 10.3

76 54.

✓

46.1

47.8

12.6 10.9

76 54

✓

46.2

47.9

53.5

53.4

53.3

54.0

53.1

48.6

48.3

48.0

12.5	10.8	5.2	3.3	4.4	4.7	5.6	10.1	10.4	10.7
53	36	21	12		11	19	41	51	68

53.4

52.2

51.8

52.2

52.9

Prop + 85	5.3	6.5	6.9	6.5	5.8	Prop + 85
	21	13		12	19	

46.1

46.5

46.6

46.4

46.1

45.5

45.1

12.6	12.2	12.1	12.3	12.6	13.2	13.6
72	38	13		16	40	64

Sta + x - Elev

958.74

A+39 Parallel to Tracks

+58

+59

+ Fe Cor 73

TP ✓

0.93 957.81 957.84

TP

6.35 960.90 4.19 954.55

3

+50

Oct 26, 1955

9

24

R1

A5.5

A5.4

A5.8

A5.9

A5.5

A5.0

A4.7

13.2
60

13.3
31

12.9
P

12.8

13.2
16

13.7
39

14.0
61 ✓

A5.4

A8.6

57.6

53.7

53.5

53.1

56.1

A4.5

A6.8

A4.1 ✓

13.3
66

10.1
42

1.1
20

5.0
12

5.2

5.6
12

2.6
21

9.2
36

11.9
50

14.6
61 ✓

57.6

55.6

55.6

55.4

56.1

✓

Day + 58

1.1
20

3.1
12

3.1

3.3
15

2.6
21

Day + 58

51.1

A7.2

A7.9

9.8
47

13.7
62

13.0
73 ✓

A8.8

A6.7

A7.6 ✓

12.1
47

14.2
60

13.3
75 ✓

Sta	+	Δ	-	Elev
		960.90		
3+66467				
4+75876				
5				
+50				
6				
BM				
		1.65		959.25
		0.29		960.11 959.25

12

E

B4

10

51.0	48.1	47.2	47.8
9.9	12.2	13.7	13.1 ✓
40	53	64	75

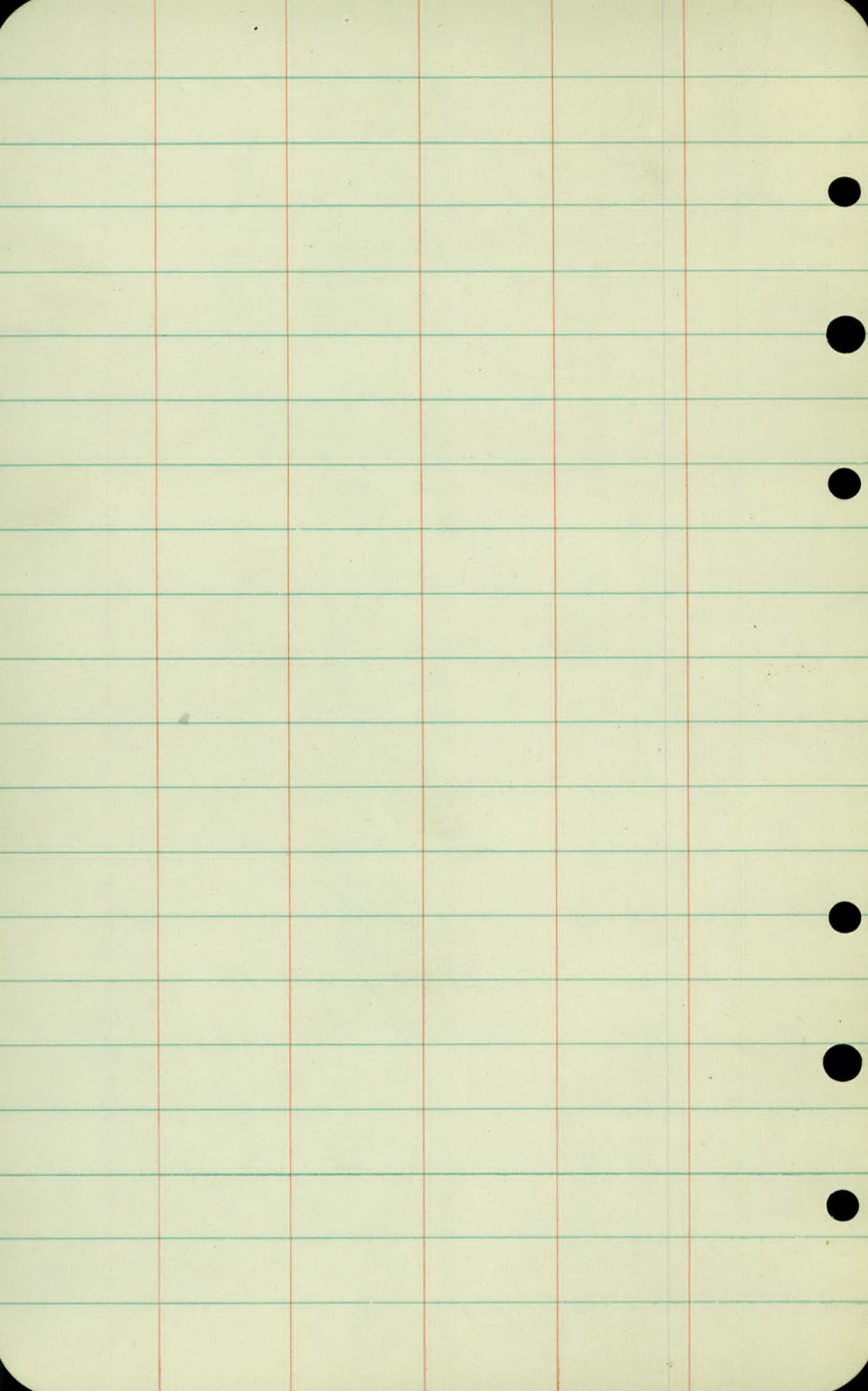
50.4	47.1
10.5	13.2 ✓
47	65

48.9	47.3	47.8
12.0	13.6	13.1 ✓
51	65	74

48.9	46.7	46.3
12.0	14.2	14.6 ✓
46	63	78

51.5	47.5	46.3
9.4	13.4	14.6 ✓
48	63	77

Top of Bottom Angle iron-base East Pier of
Tower NE Cor Co Rd "D" + Silver Lake Road



1
Silver Lake Rb

C. Rd D No

Cut to the left north of Tracks

Left 195 Cut 0.0

Left 245 Cut 40

Left 295 Cut 0.0

East of Bridge
Sta of Tracks

St.

2

3

4

FX
AM
LC
WJ

Nov. 6, 1955

2

Cut 4.0

Cut 0.0

Cut 1.0

Cut 6.0

Cut 9.0

Cut 8.0

Cut 7.0

Cut 11.0

5

6

3+50

Manhole Locations

4+76

0-12

12+04

Nov. 1, 1955

3

C 3.0

C 30

C. 0.0

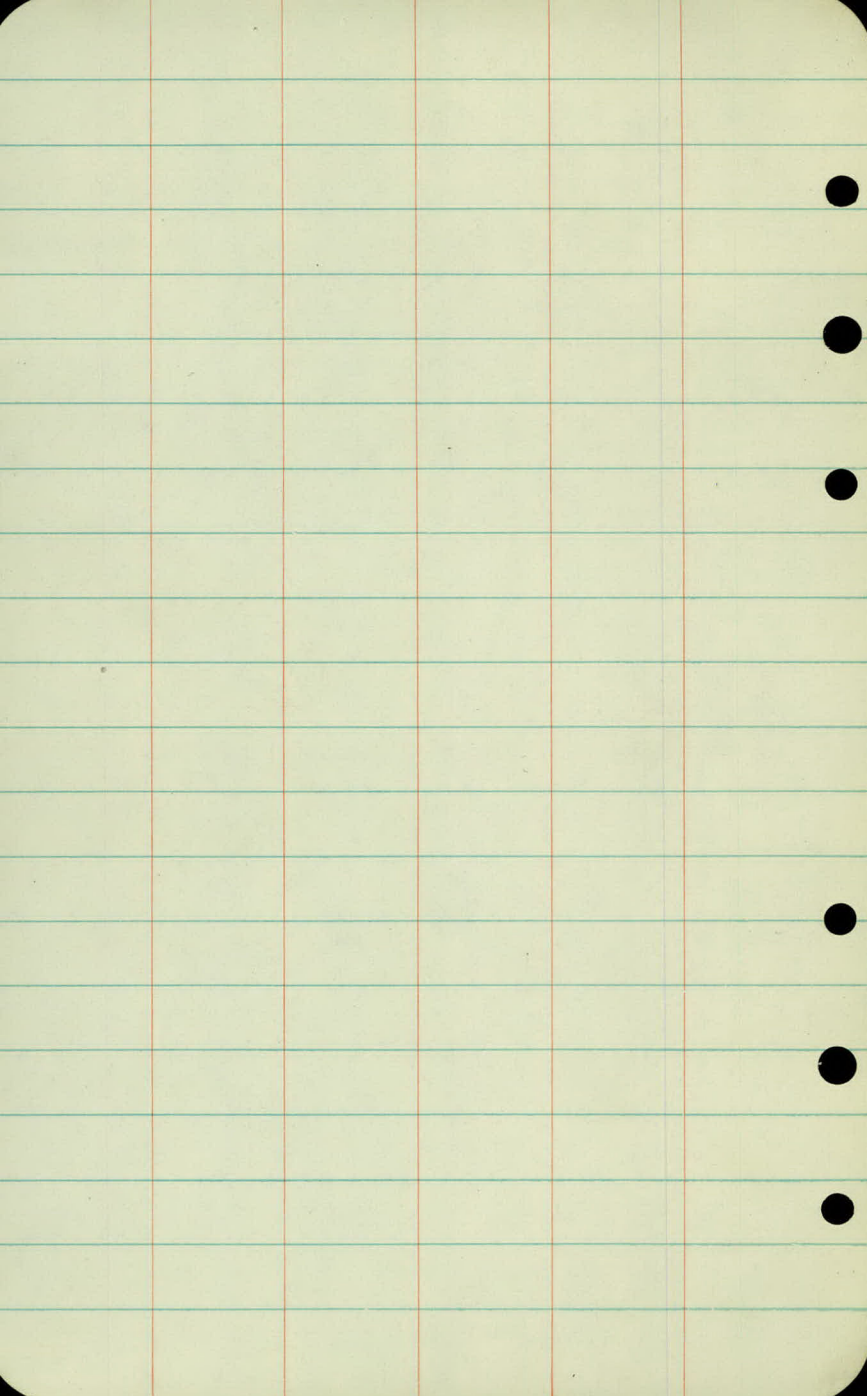
C 00

+150	+7.5	+9.0	+15	0.0	-15	+10.0	+12.0	+12.0
150	80	30	20	Tracks	22	40	50	150

M H #20
60'

M H #21
30.5

M H #19
16'



X-sections

Sta	+	π	-	Elev
BM	6.71	965.96		959.25
TP	5.72	958.27	13.41	952.55

8

9

+50

+76

10

+50

FK
AM
LO
WD

Nov 1, 1955

5

Lt.

RA

Top Bottom Angle Iron Eas pier NE Cor + Silver Lake Rd
Co Rd D

52.5

5.8

52.6

5.7

52.5

6.4 6.9 7.3 6.8 6.1 5.8 6.0 6.7 8.2 7.7 10.1 10.4
50 29 21 17 15 13 16 18 30 44 50
Fe

52.5

5.9 6.3 6.8 7.2 6.6 6.1 5.8 6.0 6.5 7.9 7.9 5.38
50 35 29 21 17 15 14 16 19 23 29 50
Fe

52.5

5.8 6.4 6.8 6.1 5.9 5.8 6.0 6.7 7.9 7.6 5.1 8.5
50 30 21 18 15 15 17 19 24 30 50
Fe

52.9

4.7 5.3 5.6 6.5 6.4 5.9 5.6 5.4 6.0 7.5 7.4 6.0 9.1 12.8
50 31 27 25 20 17 14 16 19 24 28 36 50
Fe

Sta + π - Elev

958.27

11

+45

+65 15' Ent Rt 1.5 above Road

12

1

+04

BM

4.24 954.03

2 Nov 1.1955

6

Lt

Rt

53.3

3.8	4.1	4.7	4.8	5.0	5.4	7.4	6.1	3.4	5.3	7.7
50	29	20	15		15	18	26	34	44	50

53.5

3.1	3.7	4.7	4.6	4.8	5.1	6.4	6.7	5.2	+0.3	+0.9
50	24	17	13		14	17	20	27	35	50

53.4

3.3	3.7	4.9	5.1	4.9	5.2	7.4	6.1	0.9	1.3
50	32	27	14		15	19	24	33	50

52.95

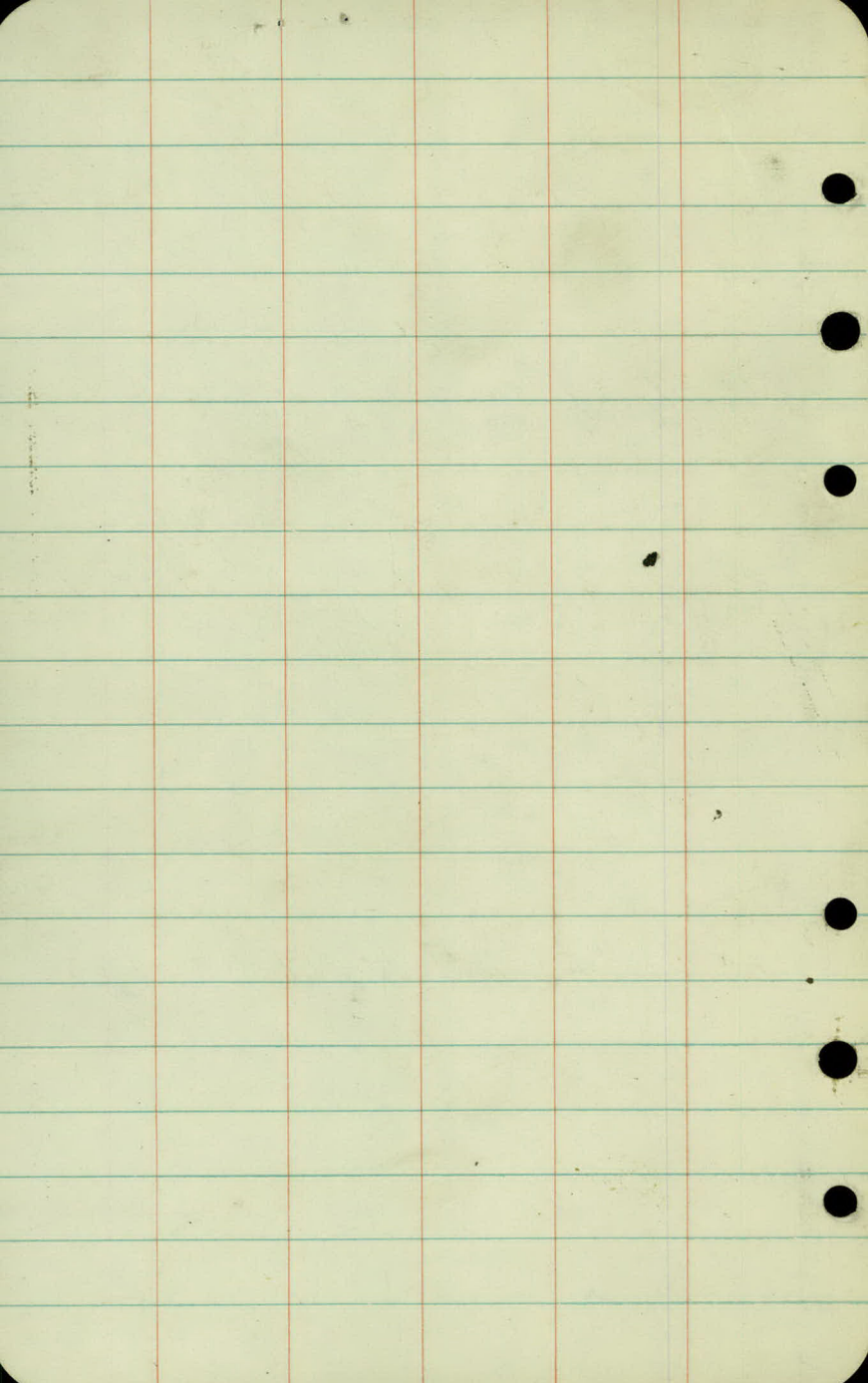
532

MH cover

16

21.7

ERim on Air Vent Lt 21.7 Sta 11+97



1
Silver Lake Road
Co Rd "D" to Lakeriew Drive
Bridge stationing & elevations

2 pages

	+	π	-	Elev	
BM	13.40	972.65 173.40			959.25

0+00

3+67			1.40	71.25	SE Cor Bridge
3+67			1.45	71.20	SW cor Bridge

4+80			1.47	71.18	
------	--	--	------	-------	--

4+80			1.42	71.23	
------	--	--	------	-------	--

2+00			2.68		
------	--	--	------	--	--

FA
KP
JP
RL
SB

July 11/1957

2

Silver Lake

Top angle iron base E pier N.E. Cor Rd & "D"

Mont & Co Rd "D" & Silver Lake Rd

71.49

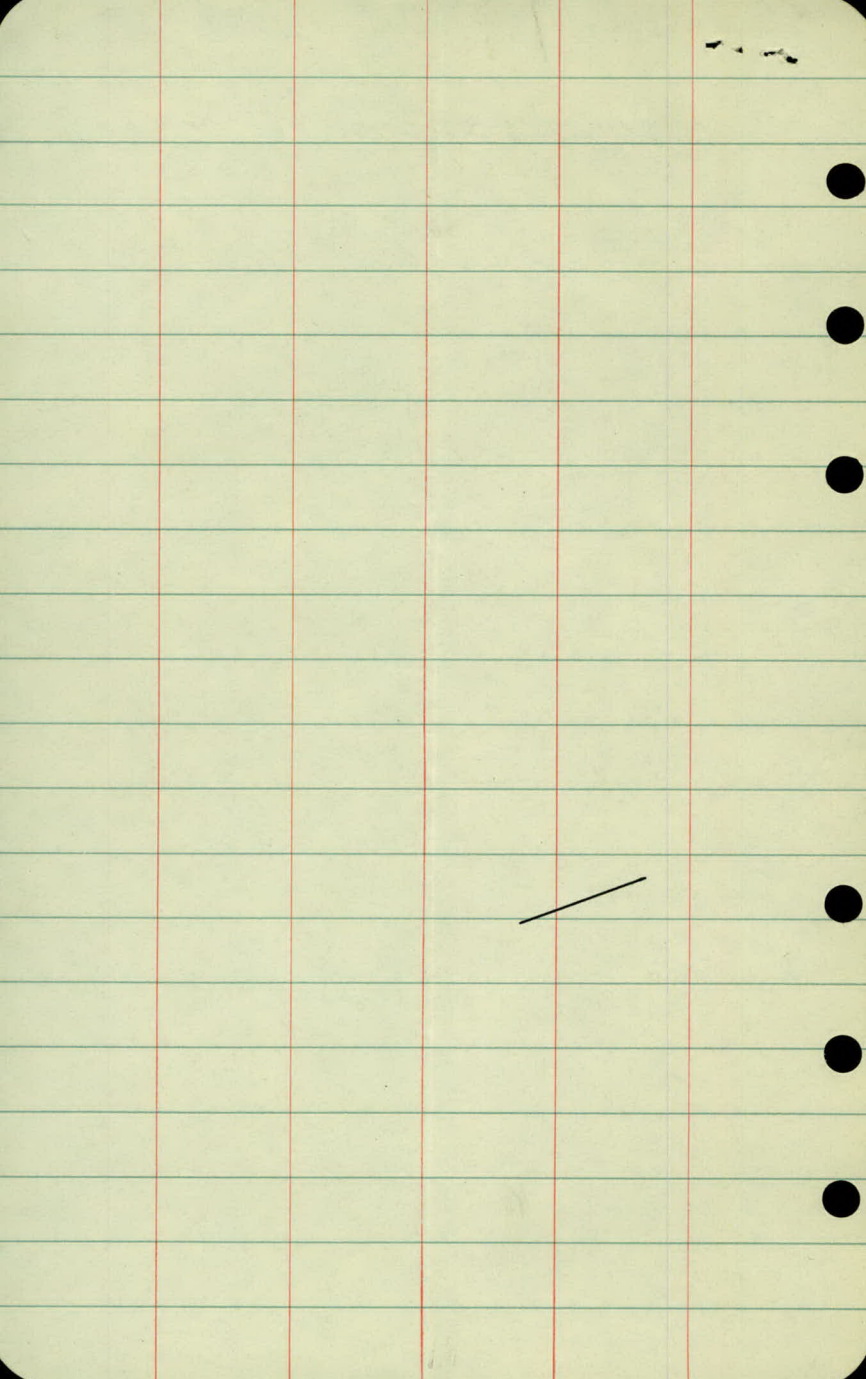
1.16

~~E~~

N.E. Cor Bridge

N.W. Cor Bridge

E Road



DIST.

VERT.
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV

Silver Lake Rd
at

0400 73.2 Bridge

1+50 70.3

2 69.74

+50 70.07

3 70.84

+17 71.10

+42 71.39

+67 71.49 Bridge

OBJECT

AZ.

STADIA

0+00 ⁵ 4.48 5.07

+50 4.65 5.1

1 4.7 5.2

+50 4.8 5.3

2 4.9

+50 5.0

3 5.1

+50 5.2

4 5.3 5.8

+31 5.37 5.81

July 23, 1951

3

DIST	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV
FA KA JD SA RL					

Barrow Pit X-sections

Silver Lake Rd at

at

Lake View Drive

*

*

X Sec. Orig P 3-7

*

P 12-16

*

*

± Silver Lake Rd @ 0900

OBJECT

AZ.

STADIA

BM

10.92 955.03

944.11

0+33

✓

+43

✓

+77

July 23, 1951

DIST. VERT. ROD ROD DIFF. ELEV. 4

Top End Fe Post 0735 ±

22.4	22.4	22.9	23.2	21.9	21.4	29.1	P
12.6	12.6	12.1	11.8	13.1	13.6	15.3	
120	100	93	63	42	22		

21.8	21.5	21.2	21.0
13.2	13.5	13.8	14.0
141	161	178	200

23.3	25.1	26.6	26.5	24.9	22.6	20.1	P
11.7	9.9	8.4	8.5	10.1	12.4	14.9	
118	100	84	64	49	25		

22.0	21.9	21.9	21.6
13.0	13.1	13.1	13.4
139	59	76	200

24.1	26.5	27.6	29.1	29.0	25.1	22.0	P
10.9	8.5	7.4	5.9	6.0	9.9	13.0	
119	100	89	63	56	24		

23.8	22.9	22.2	21.7
11.2	12.1	12.8	13.3
137	151	172	200

OBJECT

AZ.

STADIA

955.03

1 +00

✓

+35

✓

+65

TP

4. 41950.82 8.62 946.41

46.6	47.9	50.2	50.5	49.5	46.3	43.1
9.5	7.1	4.8	4.5	5.5	8.7	11.9
121	100	75	62	45	22	

44.2	43.1	42.4	40.8
10.8	11.9	12.6	14.2
145	160	180	200

47.6	50.0	51.0	50.8	49.5	47.4	44.5
74	5.0	4.0	4.2	5.5	7.6	10.5
125	100	80	62	45	26	

45.9	44.3	42.8	40.6
9.1	10.7	12.2	14.4
144	163	178	200

50.8	50.4	50.3	49.6	47.9	45.4	42.8
4.2	4.6	4.7	5.4	7.1	9.6	12.2
100	95	85	67	50	27	

48.8	47.3	45.1	43.1	41.2	40.9
6.2	7.7	9.9	11.9	13.8	14.6
122	139	161	178	191	200

OBJECT

AZ.

STADIA

950.82

2+00

✓

+50

✓

+90 along Fe

TP 4.16 946.18 8.80 942.02

DIST.

VERT.
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV

6

July 23, 1957

49.0	48.0	46.1	43.4	41.5	40.2	39.1
1.8	2.8	4.7	7.4	9.3	10.6	11.7
100	88	68	48	33	20	

49.1	48.0	46.4	43.6	41.1	39.1	
1.7	2.8	4.4	7.2	9.7	11.7	
116	134	152	172	188	200	

42.6	42.1	40.4	38.5	36.2	34.1	32.7
8.2	8.7	10.4	12.3	14.6	16.7	18.1
120	100	79	61	42	23	

42.0	41.2	39.8	38.7	37.8
8.8	9.6	11.0	12.1	13.0
134	151	167	183	200

39.9	37.7	35.9	35.7	34.6	
10.9	13.1	14.9	15.1	16.2	Very Low
185	160	141	121	100	

41.0
9.8
200

OBJECT

AZ.

STADIA

946.18

0+00 $\pm$ Silver Lake Rd+21 $\pm$ Ditch

✓

BM

1.98 944.20

To Post

(944.11)

BM

7.17 939.01

(938.92)

July 23, 1937

£

7

DIST.

VERT.
ANGLE

ROD
EQUIV.

ROD

DIFF.

ELEV

39.9	39.1	39.5	39.1	38.6
6.3	6.5	6.7	7.1	7.6
200	150	100	50	

38.0	37.8	37.6	37.6	36.9	36.1
8.2	8.4	8.4	8.6	8.6	9.3
116	100	81	62	40	18

38.0	38.3	37.8	37.7	37.9
8.2	7.9	8.4	8.5	8.3
133	149	160	180	200

Top ^{Ent} Fe Post £ 0+35

Spike in pp. for Lake Gauge

10.92	1.98
4.41	8.80
4.16	8.62
19.49	19.40

OBJECT

AZ.

STADIA

BM 12.65 971.90

959.25

1+50 70.3

No Change

2 69.74 P.I. 100' VC

+50 70.07

+
3 70.84

+17 71.10

+42 71.39

+67 71.49 0.43 ✓

4+80 71.49 0.43

5 71.36 .54 1.04 ✓

120 70.95 P.I. 100' VC 1.45 ✓

+50 69.81 2.06 2.56

FD
HD
SD
JD
RL
DIST.

VERT.
ANGLE

ROD
EQUIV.

July 26, 1959
ROD DIFF.

ELEV

8

Top

Gr

Gr

~~6 1.0~~

~~Gr~~
~~1.0~~

Grade

Gr

OBJECT

AZ.

STADIA

97190

5+60 69.34

⁷
 6 68.19 2.71 3.21

+50 64.50 7.4 2.9 ✓

7 61.80 10.1 10.6

0.09 96200 9.99 961.91

+50 59.12 2.88 3.38

8 56.42 5.58 6.08

+50 54.18 7.82 8.32

+75 53.39

9 52.83 9.17 9.67

⁴
 +50 52.39 9.6 ✓

Sta	PG	PCR	-	Flev
BM	1.29	972.78		971.49
5+00	71.36	1.43		

+20	70.95	1.83		
-----	-------	------	--	--

+50	69.84	2.94		
-----	-------	------	--	--

6+00	67.19	5.59		
------	-------	------	--	--

+50	64.5	8.28		
-----	------	------	--	--

7	61.8	11.1		
---	------	------	--	--

TP	0.05	963.01	9.82	962.96
----	------	--------	------	--------

+50	59.12	3.9		
-----	-------	-----	--	--

8	56.42	6.6		
---	-------	-----	--	--

+50	54.18	8.83		
-----	-------	------	--	--

9	52.83	10.18	10.68	
---	-------	-------	-------	--

£ July 26, 1931

10

LT

BT

£ Bridge N. End

142

BT

£ Grade

Sta	PG	PBR	SGR	Elev
BM	0.53	972.02		971.49

5	71.36	0.66	1.16	
---	-------	------	------	--

+20	70.93	1.07	1.57	
-----	-------	------	------	--

+30	69.84	2.18	2.68	
-----	-------	------	------	--

+60	69.34	2.78	3.28	
-----	-------	------	------	--

6	67.19	4.83	5.33	
---	-------	------	------	--

+50	64.5	7.5	8.0	
-----	------	-----	-----	--

7	61.8	10.2	10.7	
---	------	------	------	--

TP	0.22	962.30	9.94	962.08
----	------	--------	------	--------

+50	59.12	3.2	3.7	
-----	-------	-----	-----	--

8	56.42	5.9	6.4	
---	-------	-----	-----	--

FK
SR

July 29, 1957

11

27

BT

2 N End Bridge

1.17
Gr

1.2
BT Grade

✓

✓

—————

✓

✓

✓

✓

✓

✓

✓

1.9

✓

✓

✓

✓

✓

Sta	PG	PG8	SQR	Elev
-----	----	-----	-----	------

962.30

8+50	54.18	8.1	8.6	✓
------	-------	-----	-----	---

July 29, 1957

12

Borrow Pit x-sections
for estimate

+

π

-

Elev

BM

8.35 952.46

944.11

0+33

✓

+ 43

✓

+ 77

✓

July 29, 1957

Lt

£

13.

Top End Fe post 0+35£

40.4	40.4	39.8	38.9	38.6	40.7	39.6
12.1	12.1	12.7	13.6	13.9	11.8	12.9
100	87	60	32	11	9	

39.8	40.5	41.4	41.7	41.5
12.7	12.0	11.1	10.8	11.0
128	147	164	179	200

40.9	40.7	40.9	40.8	40.6	39.6	41.5	40.8	40.2
11.6	11.8	11.6	11.7	11.9	12.9	11.0	11.7	12.3
121	100	88	59	35	13	10	8	

41.1	41.9	43.6	43.7	41.9	41.8
11.4	10.6	8.9	8.8	10.6	10.7
145	165	174	192	200	205

42.6	42.5	42.9	42.6	42.7	42.8	42.0	43.3	41.9
9.9	10.0	9.6	9.9	9.8	9.7	10.5	9.2	10.6
142	121	106	82	66	42	14	12	

42.2	43.7	48.5	47.5	45.4	40.6	40.6
10.3	8.8	4.0	5.0	7.1	11.9	11.9
166	177	186	196	200	210	215

+

π

-

E/cv

952.46

1+00

✓

+35

✓

+65

✓

July 29, 1957

14

Lt

E

43.0	43.6	43.7	43.6	43.3	44.0	43.0	44.4	43.1
9.5	8.9	8.8	8.9	9.2	8.5	9.5	8.1	9.4
142	123	100	89	69	42	15	12	

42.5	43.5	48.1	47.8	44.8	40.5	39.9
10.0	9.0	4.4	4.7	7.7	12.0	12.6
158	174	185	195	200	208	214

44.2	44.8	45.2	46.0	45.4	45.1	43.9	45.4	44.5
8.3	7.7	7.3	6.5	7.1	7.4	8.6	7.1	8.0
146	123	100	76	53	32	15	10	

43.5	46.8	46.1	42.2	40.4	39.9
9.0	5.7	6.4	10.3	12.1	12.6
172	181	194	200	203	208

48.3	48.0	47.9	47.6	45.4	44.2	42.7	43.5	42.9
4.2	4.5	4.6	4.9	7.1	8.3	9.8	9.0	9.6
121	100	83	61	42	24	12	10	

46.5	45.1	44.1	45.2	45.7	44.4	40.9	40.0
6.0	7.4	8.4	7.3	6.8	8.1	11.6	12.5
143	157	172	177	188	195	200	205

+

1

-

Elev

952.46

2+00

✓

TP 8.10 948.29 12.27 940.19

+50

✓

+90 Along Fe

✓

TP 2.41 947.75 2.95 945.34

LT July 28, 1957 ~~E~~ 15

47.0	46.0	44.1	42.4	41.2	39.9	39.3	39.1
5.5	6.5	8.4	10.1	11.3	12.6	13.2	13.4
100	78	55	39	22	15	9	

47.0	46.8	46.1	44.0	42.9	41.8	45.1	38.8
5.5	5.7	6.4	8.5	9.6	7.7	7.4	13.7
118	132	145	160	169	175	182	199

39.7	40.1	40.1	40.1	38.3	36.3	35.0	32.6
8.6	8.2	8.2	8.2	10.0	12.0	13.3	15.7
138	119	100	89	62	44	31	

39.1	39.1	38.3	37.9
9.2	9.2	10.0	10.9
152	159	171	185

36.7	35.9	35.5	34.7	34.6	33.4	32.0
11.6	12.4	12.8	13.6	13.7	14.9	16.3
150	134	120	100	91	64	43

very low

38.8
9.5
172

	+	π	-	Elev
--	---	-------	---	------

		947.75		
--	--	--------	--	--

BM				
----	--	--	--	--

			3.66	
--	--	--	------	--

				944.09
--	--	--	--	--------

--	--	--	--	--

				944.11
--	--	--	--	--------

0+21	$\pm$ Ditch			
------	-------------	--	--	--

V				
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TP				
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	2.51			
--	------	--	--	--

		944.31		
--	--	--------	--	--

			5.95	
--	--	--	------	--

				941.80
--	--	--	--	--------

BM				
----	--	--	--	--

			5.45	
--	--	--	------	--

				938.86
--	--	--	--	--------

				938.92
--	--	--	--	--------

July 29, 1957 Lt 16

Top End Fe post # 0+35

38.0 37.6 37.6 37.4 37.2 37.4 36.8 36.2

9.8 10.2 10.2 10.4 10.6 10.4 11.0 11.6

116 100 83 59 38 23 15

38.5 39.3 39.4 39.7 39.3 36.9 37.7

9.3 8.5 8.4 8.1 8.5 9.9 10.1

117 125 135 145 151 159 171

begin
drill

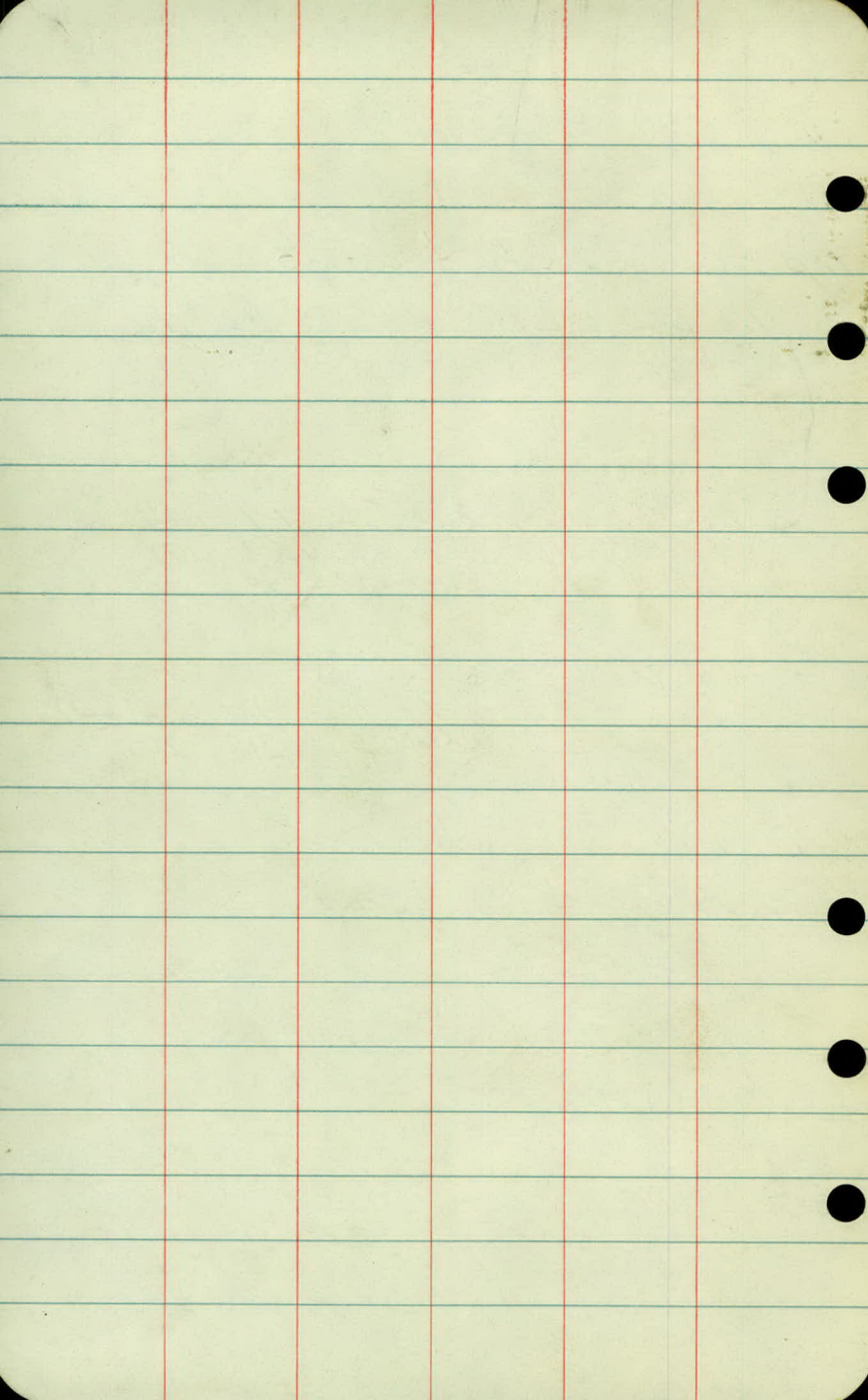
No Culvert end
drill

38.2 38.1 38.0 37.7

9.6 9.7 9.9 10.1

266 241 218 200

Spike in PP for Lake Gauge



FK
KP
JD
SR
JV

August 15, 1937 17

Silver Lake Rd

at

Lakeview Drive

Borrow Pit x-section

Sta + π - Elev.

BM 6.46950.57

949.10

0+00 $\pm$ Silver Lake Rd

0+21 Ditch Line

✓

+30

✓

+43

August 15, 1957 £ 18

1+

Top End Fe Post £ 0435

38.5

12.1

38.1 37.7 37.7 37.4 37.1 36.7

12.5 12.9 12.9 13.2 13.5 13.9

100 92 68 44 18

38.6 38.4 38.0 37.6

12.0 12.2 12.6 13.0

122 143 156 169

NE

40.3 40.4 40.0 39.4 38.8 38.0 39.6

10.3 10.2 10.6 11.2 11.8 12.6 11.0

100 83 61 42 25 15

40.3 40.5 41.2 41.2

10.3 10.1 9.4 9.4

115 139 159 178

41.4 41.5 41.3 41.2 40.8 39.3 40.8 40.3

9.2 9.1 9.3 9.4 9.8 11.3 9.8 10.3

118 100 87 63 39 17 8

P.

Sta + π - Elev.

950.57

0+43

949

0+77

✓

1

✓

+35

August 15/1954 19

Lt

41.6	41.7	41.9	41.7	41.6	
9.0	8.9	8.7	8.9	9.0	P.
200	197	181	161	142	
	NG				

43.2	43.2	43.2	42.9	42.1	43.0	42.6	41.9
7.4	7.4	7.4	7.7	8.5	7.6	8.0	8.7
100	77	52	29	17	9	6	

42.8	42.7	42.0	41.6	41.1
7.8	7.9	8.6	9.0	9.5
130	156	179	200	214
			NG	

44.0	44.0	44.0	43.9	43.9	43.2	44.1	43.1
6.6	6.6	6.6	6.7	6.7	7.4	6.5	7.5
100	95	73	51	31	18	8	

43.9	43.2	43.1	42.1	41.0	40.6
6.7	7.4	7.5	8.1	9.6	10.0
121	142	163	180	200	214
					NG

45.5	45.6	45.8	45.2	44.1	45.2	44.5
5.1	5.0	4.8	5.4	6.5	5.4	6.1
100	81	63	38	18	9	

45.3	44.6	44.0	43.1	40.8	39.6
5.3	6.0	6.6	7.5	9.8	11.0
126	143	164	182	200	215
					NG

Sta + π - Elev

950.57

1+65

128

✓

2

✓

T.P. 8.49 946.66 12.40 938.17

+50

✓

+80

Back Fill with Topsoil to this sta.

BM

2.52 944.14 (944.11)

August 15, 1954

20

15

47.1	47.1	46.3	45.2	43.6	43.4	42.8
3.5	3.5	4.3	5.4	7.0	7.2	7.8
100	78	53	35	20	9	

46.8	46.0	44.0	42.6	40.7	40.2
3.8	4.6	6.6	8.0	9.9	10.4
123	145	170	182	200	206
					NG

47.3	46.7	45.5	43.5	41.2	39.1	39.1
3.3	3.9	5.1	7.1	9.4	11.5	11.5
100	87	68	45	27	8	

46.8	46.1	44.3	43.0	40.3	39.4	38.8
3.8	4.5	6.3	7.6	10.3	11.2	11.8
126	145	161	174	193	200	204
						NG

40.6	40.6	38.7	37.0	34.9	33.6	32.5
6.1	6.1	8.0	9.7	11.8	13.1	14.2
100	89	67	47	25	12	

41.0	40.2	39.4	38.8	38.1	38.1
5.7	6.5	7.3	7.9	8.6	8.6
122	140	161	177	193	200

Top End Fe Pist ± 0+35

720