

BK. 22 Dr. 13

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Plan.....Survey

First Ave......

From New Brighton Rd. To 8th St......

Road Acc't. No.

Date Filed 7-25-47.....

File

PLAN SURVEY

FIRST AVE.

New Brighton Road to Eighth St.

Village of New Brighton

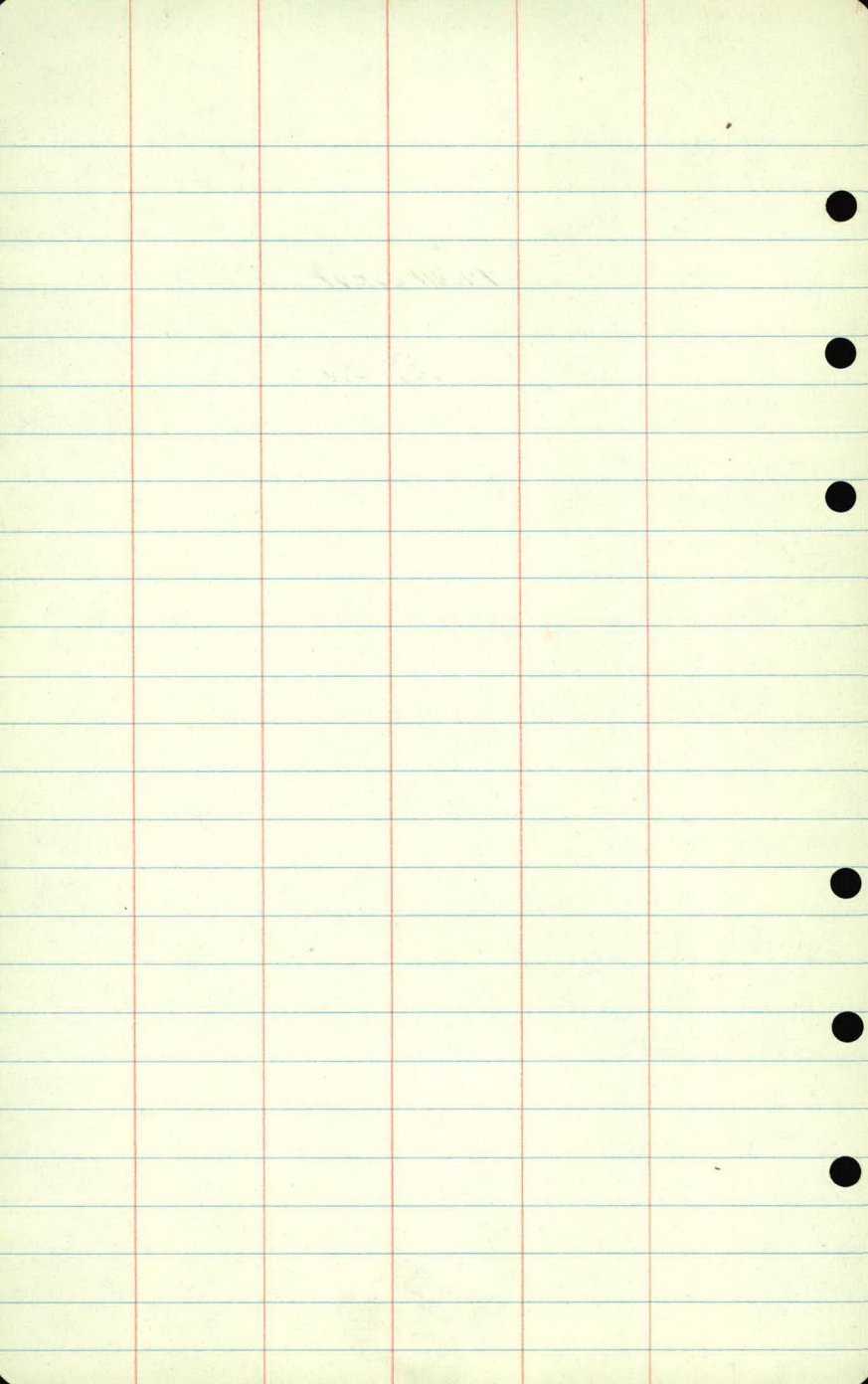
3/25/47 W.B.

INDEX

Align 1-2

Topog 3-6

Xsections 7-15



1
Alignment

1st Ave.

Sta.	Point	ΔL	ΔP
------	-------	------------	------------

22+55.04 -

15+99.30 P.O.T = E 8th St. (Curbs)

9+40.20 P.O.T = E 7th St. (Curbs)

2+81.48 P.O.T = E 6th St. (Pav.)

0 +00 = E New Brighton Rd.

K.A.
A.M.
M.B.
E.K.

3-20-47

+30°

N.E. Cor. Sec. 29

Spk & Disc.

22.62' @ 8" Oak

63.82' @ 10" Oak

Spk & Disc.

45.53' @ 16" O.

46.50' @ 6" O.

Spk & Disc.

Lead Plug & Nail

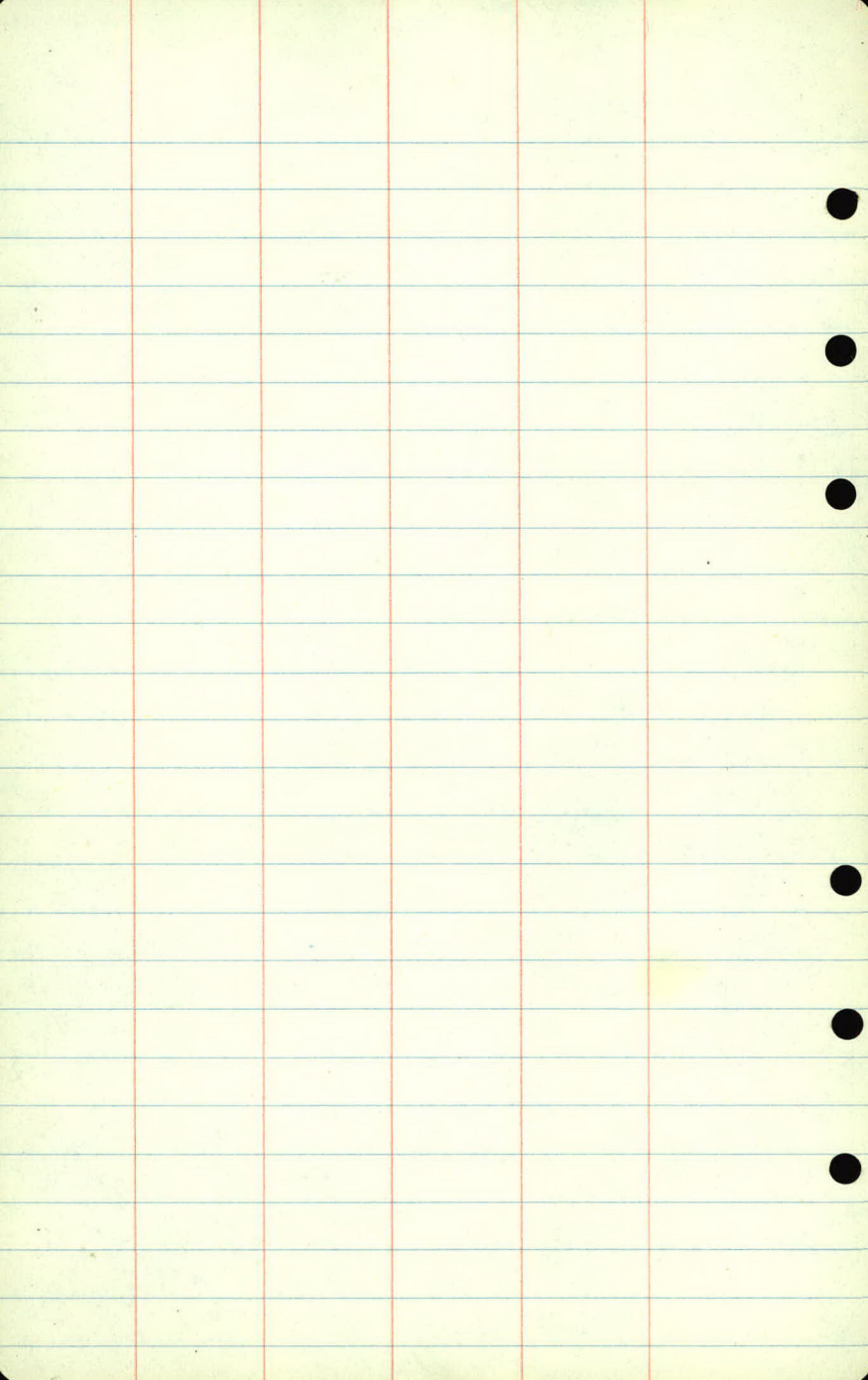
41°14'

50.62' @ P.P.

E 1/4 Cor. Sec. 29

100° 04' 1/2"

382.51'



Topography

+02 ~~8~~ 8°0'6"

5 Trail-3'

Brush-6'

+53-10°0'-15'
+45° Cor Brush + Woods -1'

4 Trail-6'

3 Trail-5'

2 Trail-2'

1 Trail-1'

+40° E Ent. + Trail-00

0+00

3-20-41

730.

K.A.
H.M.
M.B.
R.E.

4

6' wide trail

10' 0" 90°

+63-3°0'-19' 15°TW 0-24'
+55-12°0'-24'

+22-12°0'-16'
+21-5°30'-11'
+02-5°10'-15'

12 Trail-2'

+78-13°0'-16'
+78-10°1. Trails-00
+52-13°0'-20'
+22-5°10'-18'
+14-13°0'-15'
+01-15°0'-13'

11 Trail-3'

+17-15°0'-18'
+02-15°TW 0-19'
+52-20°0'-16'
+25-End Brush-15'

10

Trail 00 +03-12°TW 0-17'

+54-End Graded St-18'

+51-End G.R.-6'
+30-12°TW 0-23' 8°0-30'
+11-10°0'-20'

+28-End Graded St-12'

+28-End G.R.-5'
+02-2°0'-26'
Trail-1' Brush-10'
+95-8°0-30'
+84-12°0'-25'
+80-6°0-25'-26'-28'
+70-2-8°0-28'

9

8

Trail-2' Brush-10'

7 Trail-2'

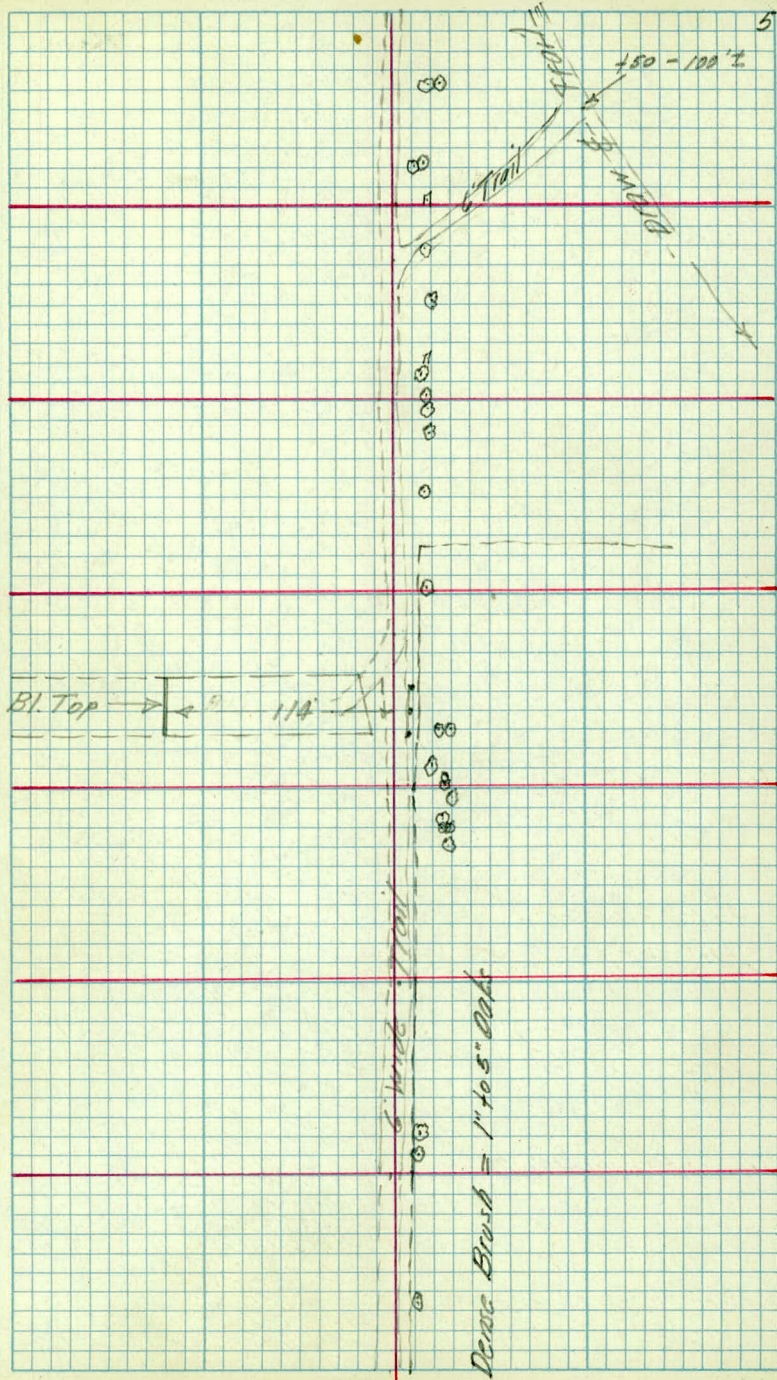
+21-16°0'-11'
+10-16°0'-11'
Brush-8'

6

Trail-3'

+34-16°0'-11'

Brush-7'



17 Trail-6'

16 Trail-6'

+99-5"0-23' (Tic)
+95-5"0-5' +96-5"0-6-15'
+91-5"0-23' +96-4"0-22'
+75-8"0-21' +70-8"0-24'
+60-6"0-14'
+51-10"0-16'
+42-8"0-14'
+37-10"0-16' (Tic)

+39-18"0-20'

+10-4"0-14'
15 Trail-6'

+73-Brush-23-14'
+50-12"0-20' of Trail 00
+59-2-8"0-15'

+87-6"0-19'
+77-5"0-16'
+75-8"0-31' +70-5"0-31'
+68-12"0-19'
+66-5"0-25'
+50-12"0-20'
+07-12"0-22'

14 Brush-23-12'

+101-6"0-25'
Trail-2-40'
+95-10"0-18' 6"0-26'
+85-15"0-22' +82-18"0-25'
+74-8"0-22'
+70-6"0-18' 6"0-23'
+63-16"0-20'
+32-15"0-21'
+25-12"0-20'
+18-12"0-30'
+16-16"0-26' +06-36"0-13'
Trail-1'

+50-4-6"0-24'

+34-2-6"0-20'-End Brush

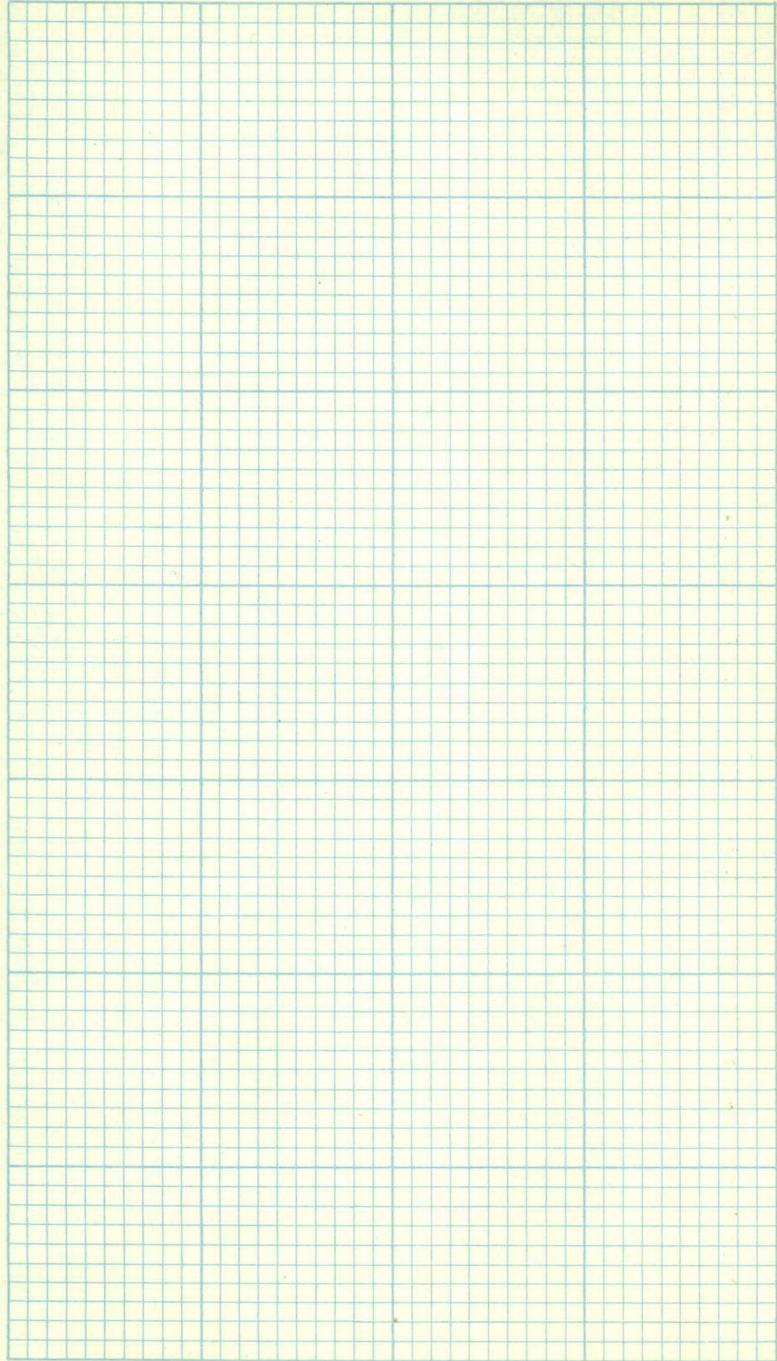
13

Low land

Light Brown

U. Frank





X Sections

Sta.	+	π	-	Elev.
B.M.	4.28	929.29		(925.01)
B.M.	10.97	926.55	13.71	915.58
0 +00 along & par.				15.58
0 +00				
+15.2 = Edge par				15.86
+25				16.1
+47				16.7
+63				17.1
1				18.5
+50				19.6
2				20.8

K.M.
A.M.
M.B.
B.K.

3-20-47 +30°

8

L E R

Top Hyd. at N.E. Cor 3rd Ave + 6th St

Lead Plug in E Pak of 100 First Ave + New Brighton Rd

8.28 9.58 10.97 12.41 13.83 ✓
100 50 50 50 100
18.27 16.97 15.58 14.14 12.72

15.86
10.69 10.7 11.8 11.9 9.5 9.2 ✓
11 17 20 27 50
18.7

16.24
10.31 10.5 10.3 11.6 11.7 9.2 8.7 9.1 ✓
8.5 5 10 15 22 27 50
Pav

17.02
9.53 9.6 10.3 10.3 9.9 9.8 10.3 10.1 8.2 8.0 8.7 ✓
28 16 10 6 7 9 13 19 35 50

17.66
8.89 9.0 9.8 10.0 8.1 8.0 9.6 9.5 9.5 9.7 7.7 7.8 8.6 ✓
4.45 35 31 23 18 16 10 5 11 17 28 50

8.9 7.3 6.7 7.1 8.5 8.1 8.9 8.3 7.2 7.9 8.4 ✓
5.0 47 35 18 7 7 10 16 38 50

6.1 5.8 5.6 7.2 7.0 7.3 6.3 6.6 8.0 ✓
5.0 3.7 2.2 8 9 1.4 2.6 5.0

5.2 5.0 5.5 5.9 5.8 5.8 5.5 5.8 7.3 ✓
5.0 3.0 1.7 7 6 1.1 2.5 5.0

Sta	+	π	-	Elev
		926.55		
2	+40			21.1
	+81.5			21.5
3				21.6
	+50			22.2
4				22.2
	+42			20.8
	+70			20.3
5				20.3

L

E

R

5.0 5.2 5.7 5.2 5.1 5.5 5.5 6.5 7.7 ✓
 50 37 25 20 11 17 30 50

4.1 4.3
 50 28

5.1 5.0 5.8 6.5 6.8 L
 5 12 35 50

5.0 5.4 5.3 5.3 5.0 4.9 5.8 7.4 8.0 8.7 ✓
 30 37 16 1 3 15 30 39 50

5.7 5.6 5.1 5.1 4.4 5.0 5.1 7.0 8.6 ✓
 50 35 13 5 6 16 34 50

7.1 6.6 5.7 5.3 4.4 4.1 4.5 5.7 7.9 L
 50 31 15 2 1 20 32 50

8.0 7.3 6.6 6.6 5.8 5.4 4.5 5.0 5.4 ✓
 50 29 15 3 6 7 31 50

8.0 7.5 6.5 6.8 6.3 5.9 6.4 7.9 ✓
 50 30 10 2 9 32 50

6.7 6.7 6.2 6.6 6.3 7.0 8.0 9.3 10.5 ✓
 50 30 15 1 14 31 42 50

Sta	+	π	-	Elev.
		926.55		
5+50				19.5
6				17.5
T.P	5.87	923.33	9.09	917.46
+50				16.3
7				14.9
+50				13.6
8				12.0
+50				10.5
9				09.3

L E C

6.1 6.3 6.3 7.1 7.1 8.1 10.3 14.7 S.S. ✓
 50 27 8 2 9 29 50

7.3 8.0 8.3 9.1 8.6 10.4 13.6 17.9 S.S. ✓
 50 31 7 4 11? 30 50
 L.S.

SPIKE AT E STA 6+00

4.9 6.0 6.5 7.0 7.1 10.3 13.4 18.4 S.S. ✓
 50 28 5 4 14 32 50

4.2 5.5 7.2 8.4 8.2 10.3 14.5 18.8 ✓
 50 33 9 4 11 31 50

5.7 7.0 8.9 9.7 10.1 13.0 15.9 19.3 ✓
 50 35 6 8 19 33 50

7.6 9.0 10.0 10.7 11.3 11.3 12.7 14.5 17.3 19.0 ✓
 50 34 16 5 7 11 22 38 50

10.3 11.5 12.4 12.8 13.2 15.0 15.8 19.4 21.3 ✓
 50 32 9 7 12 15 40 50

12.1 13.1 13.8 14.0 14.3 16.3 16.6 20.7 22.7 ✓
 50 31 12 7 13 19 43 50

Sta	+	π	-	Elev
		92333		

9+13				09.2
------	--	--	--	------

T.P	0.33	910.84	12.82	910.51
-----	------	--------	-------	--------

+20				08.9
-----	--	--	--	------

+40 ¹² Profile		7 ¹² 5.14		08.4
---------------------------	--	----------------------	--	------

+70				06.8
-----	--	--	--	------

10				05.8
----	--	--	--	------

+50				03.8
-----	--	--	--	------

11				01.1
----	--	--	--	------

+25				99.9
-----	--	--	--	------

L

E

R

✓
 123 13.4 13.8 14.1 14.3 15.7 17.6 22.0
 50 29 14 — 6 11 25 50

NO. END G.R. PLANK 9+40.17

✓
 4.3 3.9 2.6 2.5 1.9 1.8 3.3 4.8 7.5 9.3
 50 24 12 2 6 11 23 41 50

✓
 6.9 6.1 5.2 3.9 3.3 2.4 2.4 2.4 3.8 4.6 6.9 9.4
 200 150 100 50 19 4 2.4 7 12 20 36 50

✓
 4.4 3.8 3.8 4.3 4.0 4.2 4.8 4.5 5.4 8.4
 50 43 25 12 10 12 16 25 50

✓
 4.7 5.3 5.0 5.0 4.8 5.3 4.7 5.5 6.7
 50 35 16 6 13 16 37 50

✓
 7.8 7.5 6.8 7.1 7.0 7.4 6.9 6.9 4.6 4.3 4.8
 50 26 5 4 4 6 12 18 36 50

L
 9.7 9.3 9.2 9.7 8.9 9.2 6.2 6.3 7.1
 50 27 7 5 11 16 33 50

✓
 10.9 10.3 10.1 10.5 10.9 10.4 10.8 7.9 8.4 9.2
 50 35 21 7 4 11 18 33 50

Sta	+	π	-	Elev.
		910.84		
11	+52			98.0
	+77			96.5
T.P.	0.61	897.94	13.51	897.33
12				94.6
	+50			92.1
13				89.8
	+50			90.0
14				91.0
	+50			92.7

L

E

E

124 113 115 126
50 31 20 8

128 128 131 110 115 117
5 10 17 33 50

147 ¹⁵² 142 145 147 143
50 37 24 10

146 131 133 150
12 16 26 50

38 49 46 33 33 31 33 38 40 53 60
50 23 18 6 5 9 11 19 39 50
32

111 110 95 63
50 31 12 6

58 59 113 118 120
7 19 35 50

¹⁵⁰
150 147 140 116 84 81 80 143 143 128 124
50 36 19 10 4 6 17 23 31 50

snow

171 159 137 121 79 79 117 120 108 94 84 73
50 30 18 13 3 8 16 21 35 44 50

¹²⁵
148 ~~126~~ 106 92 69 69 68 78 77 54 33
50 26 22 14 3 7 12 17 26 50

116 7.7 6.9 6.1 6.0 52 50 26 19 10.7
50 25 22 15 9 12 18 29 50

Sta.	+	Δ	-	Elev.
		897.94		
14	+87			93.9
15				94.5
T.P.	13.04	909.70	1.28	896.66
B.M.			11.48	898.22
+40				95.7
+62				96.0
+71				96.4
15+99.3 = E 8th St.				97.5
16	+50			97.8
Profile levels from here on				
17				98.1

898.24

L

E

F

7.6 35 30 40 40 39 13 00 +26 ✓
 50 30 20 12 9 16 27 50

45 41 34 34 33 11 10.4 +24 ✓
 50 29 9 9 18 33 50

Nail in 5" oak 31' Lt. 14+77

Spk in 8" oak 31' Lt. 14+75

15.3 + 139 141 140 135 98 85 65 ✓
 50 30 11 8 15 31 50

147 137 134
 50 31 13

137 122 72 58 47 ✓
 9 18 36 50

102 85 125 132 136 133 114 6.0 42 35 ✓
 50 29 20 16 3 12 20 39 50

74 62 102 125 12.2 115 22 16.1 1.0 ✓
 50 36 27 17 13 27 37 50

5.0 33 3.0 10.0 122 119 87 103 117 ✓
 70 50 43 34 24 10 26 50

45
 50

11.6

93
 50

Sta	+	π	-	Elev.
		909.70		
17	+80			96.9
18				96.1
	+50			94.4
19				92.9
	+50			?
T.P.	0.09	897.15	12.64	897.06
20				87.8
21				80.6
T.P.	0.36	885.69	11.82	885.33
	+50			78.2

3-21-47

14

L

E

R

8.3
50

12.8

7.8
508.6
50

13.6

5.5
509.8
50

15.3

4.3
5012.0
50

16.8

9.5
5013.7
50

Top stake

6.5
50

9.4

8.9
5018.0
50

16.6

17.4
508.9
50

7.5

9.7
50

Sta.	+	π	-	Elev.
		885.69		

22				76.3
----	--	--	--	------

+83: Toe slope				75.0
----------------	--	--	--	------

23 +07 = Approx. & Co. Rd. "F"				74.9
--------------------------------	--	--	--	------

T.P.	12.90	897.77	0.90	884.79
------	-------	--------	------	--------

T.P.	5.54	901.65	1.66	896.11
------	------	--------	------	--------

B.M.			3.42	898.23
------	--	--	------	--------

(898.24)

L

E

E

123
50

94

89
50137
50

107

124
50

108

Spt. in 3" Oak 31' Lt. Stg. 14/25

Sta. + π - Elev.