Bk. 16 - Dr. 16

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Drainage Survey

DITCH No. 7

From Edgerton St. To Centerville Rd.

Road Acc't. No.

Date Filed 10-26-39 File

SURVEY DITCH #7

Edgerton St to Centerville Rd

Align - 1-4

Topog - 5-10

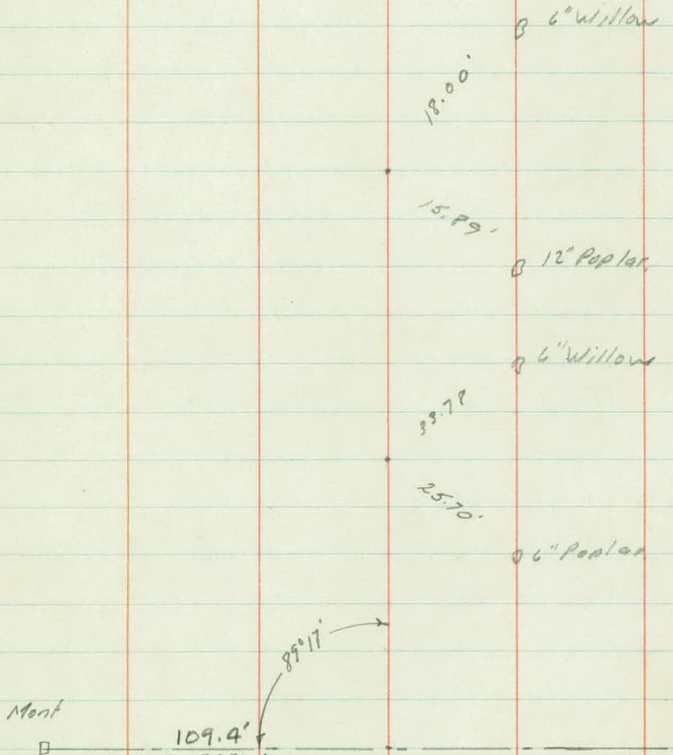
X Sections - 11-15

1-23-39
K. A.
L.G.
L.B.M.
M.J.G.

1

Alignment

Sta.		Point	Δ Lt.	Δ Rt.
13	+98.6	P.I.	22°18'	
4	+93.58	P.I.	31°22'	
3	+09	P.I.		33°19'
0	+00			


6" Willow
18.00'
15.89'
12" Poplar
6" Willow
39.7'
25.70'
6" Poplar
89°17'
Mont
109.4'
N. ¼ Cor Sec. 5 - T. 29 N - R 22 W.

Sta		Point	Δ Lt	Δ Rt
23	+70.7	P.I	12°56'	
21	+23.5	P.I.		17°11'
18	+00.87	P.I	19°56'	
17	+91.57			
14	+90.95	P.I.	13°25'	

2 (68° 54' 43"

3" Box Elder

7.88.

4" Box Elder

9.16

N. W. Cor Sec. 5.

℄ centerville rd.

233.75

39° 43'

10" Box Elder

B

17.70

8" Willow

Stg	Point	Δ Lt.	Δ Rt

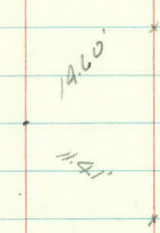
7591
105
9904.91

31 +90.41 = Ctr Conc Culv Under Centerville Rd.

31 +52.51 P.I. 31°47'

29 +38.35 P.I. 56°41'

26 +36.55 P.I. 6°27'


F.P.
14.60'
11.47'
F.P.

Topography

Bds. Willow Bushes Trees & Stumps
+60 · End Large Trees

5 Ditch - 16'

4 Ditch - 15'

+50 Ditch - 14'

3 Ditch - 17'

+50 - Ditch - 15'

2 Ditch - 17'

+91 - Hole where piss pots are dumped - 9'

+58 - N. W. Cor. Garage - 29'

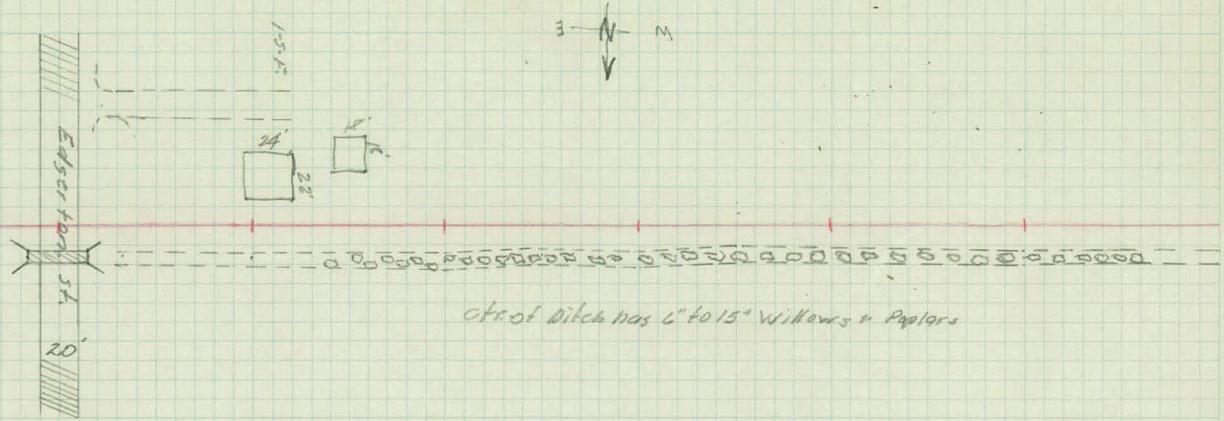
+90 - Bds. Tree & Stumps & Old Hole

+20 · N. W. Cor. Ho. - 14'

1 Ditch - 16'

+26 - Ext. - 62'

0+00 Mono. Culv. - 32.5' Long, - 6' Wide, 5' Deep.
Wing Walls - 15' Apart 4' from End of Culv.


W
N
S
1-S.F.
24'
22'
18'
16'
Edge of road
S.F.
20'
Ctr of Ditch has 6" to 15" Willows & Poplars

12

Ditch -16'

#60 -10" Elm - 10'

11

10

Ditch-16'

#94-6" Tup Elm.

#75-6" Tw Willow
#63-12" Willow

#25-12" Tw Willow.

9

#75-8" Tw Willow in Ditch
End Brush & Stumps.

8

Ditch 16'

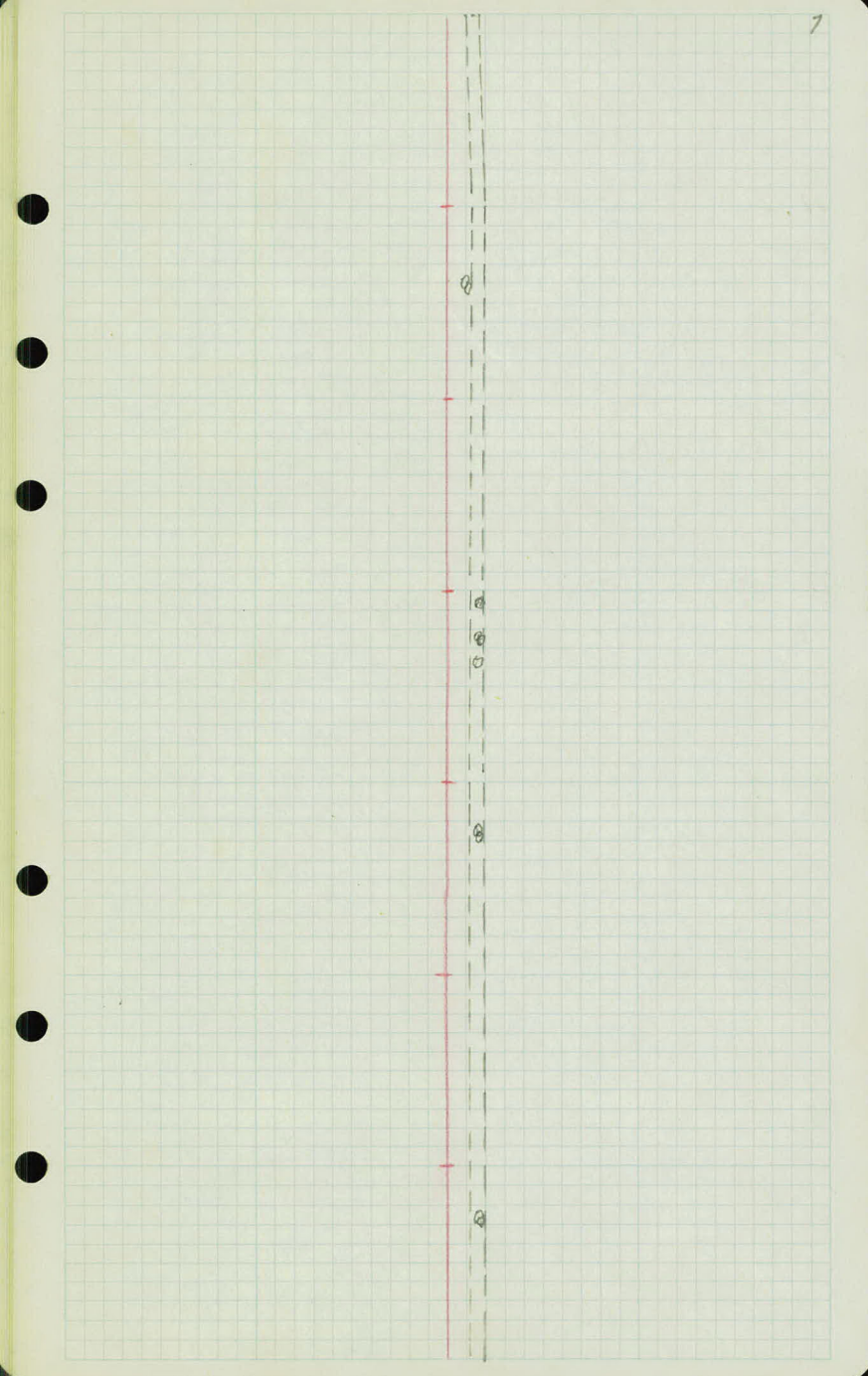
7

Ditch -17'

#75 - 8" Tw Willows in Ditch
End Brush - Stumps

6

Ditch - 16



19

18

+92-End Trees in Ditch

17

+12-Bag. Trs. in Ditch-5" to 12" Trees

+96-36" Elm-8'
+Fe. Cor.

+96-12" Trip Willow 0.0

+96-Fe. Cor-12'
+94-Nanny Tie

+12-8" B. Elder-3'
+07-12" Box Elder-6'

16

+10-10" Box Elder-7'

15 +06-5" Tw. Box Elder-3'

+82-15" Poplar-3'

14

+48-6" Elm-3'

+50-Ditch 0.0

13

Ditch-13'


Calf
Calf
chicken pen
Clean ditch from here to Sta 28+96

+44-18" Willow -2'

26 Fc - 10'

25 Wire [illegible] Fc - 14'

+79-Beg Brush - in Ditch

+23-End 36" C.M-00'
+28-Fc Cor - 16'
+25-Fc X = E

End Box Elders -
24 Ditch -1' +09-36" C.M-0.0

+71-End Box Elders - 1'

+50-Ditch-2'

23

+87-Groups Box Elders - 6'

22

+85-Beg. Box Elders - 4'

+51-Group - 4-5" B. Elders - 2' +58-Ditch-1'

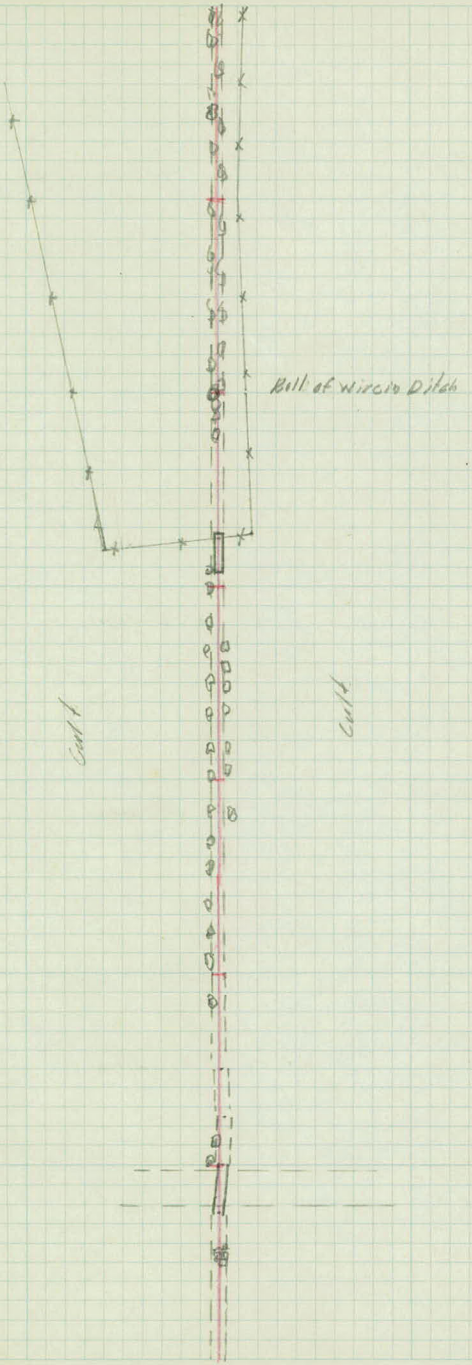
+25-Ditch -3'

+11-18" Willow -2'
21 +03-18" Willow -5' End 42" C.M.- 1'

+76-End 42" C.M-00

+52-Group - 6-12" Willows 0.0

20


Bell of Wirein Ditch
Culv
Culv

+90.41 - Ctr. - Conc. Mach Culv.

+54 - Ditch Lt.

+10 - End 36" C.M.

31

+88 - End 36" C.M. Culv.

30

+38 - Ditch - 2.2' Ext. of P.I.

29

Ditch - 11'

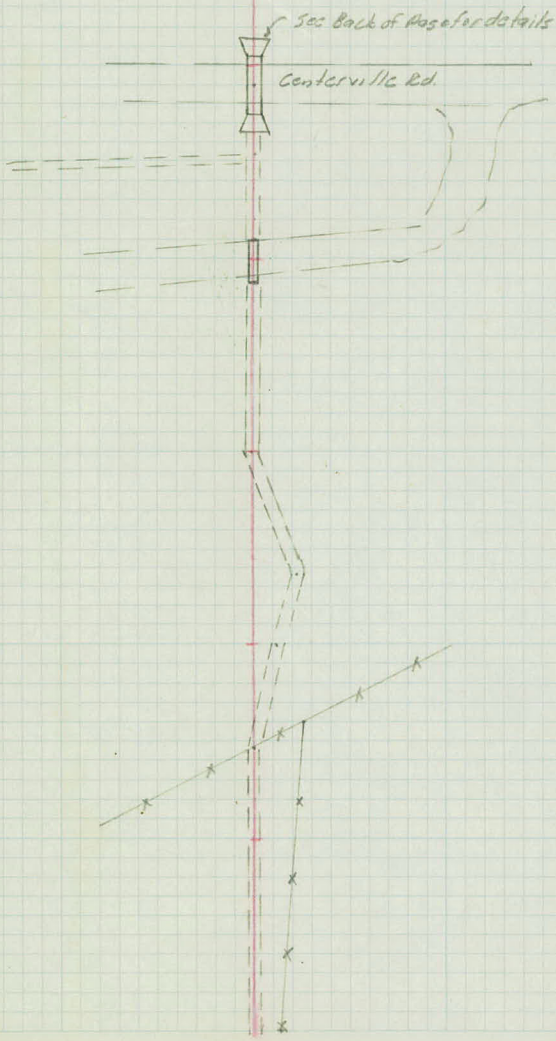
+60 - Fc Cor - 2.5'

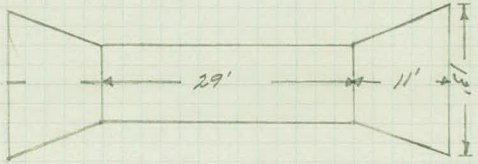
+96 - Fc. X5 Rt. Ditch - 0.0

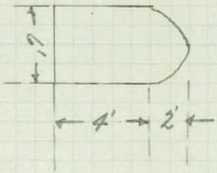
28

27

Fc. - 14'


See Back of Page for details
Centerville Rd.


29'
11'
½'


1'
4'
2'

x sections

Sta	+	x	−	Elev.	
B.M.	2.29	911.24			(908.95)
0 +					
+25					
+33					
1					
2					
3					
4					
T.P.	4.22	910.73	4.73	906.51	
+94					
5					
6					
7					
T.P.	6.76	911.79	5.70	905.03	
B.M.			2.81	908.98	(908.95)

Lt Rt

Top Mont. N ¼ Cor. Sec. 5-29-22

902.2

90
150

02.1

77/35 91/150 66/650

01.8

45/11 62/15 92/17 94/19 92/26 49/35 42

01.2

45/7 50/14 95/16 100/19 96/26 53/35 48

00.9

51/7 57/15 100/17 103/19 102/26 65/35 52

00.7

71/8 67/15 105/19 105/31 56/35 51

900.4

55/7 57/13 108/17 108/26 46/35 44

10.3

00.4
103
100

00.2

55/6 58/14 105/18 105/24 58/35 59

0.2
99.8

99.9

50 56/8 108/14 108/18 45/25 65/35

899.9

62/7 66 113/15 113/19 72/26 72/35

Sta		+	∧	−	Elev.	
B.M.		2.28	911.23			908.95
T.P.		1.76	905.96	7.53	903.70	
8	+00					
9						
10						
11						
12						
13						
T.P.		1.57	901.64	5.39	900.07	
14					95.8	
15					95.2	
16					95.0	
17					94.6	
18					93.6	
T.P.		2.78	902.52	1.90	899.74	

Rt. Rt.

Rt sta. 8

99.7

2.9 3.2 5.4 5.8 5.5 3.5 3.1
7 13 16 19 23 35

Rt 99.7

4.1 4.0 5.6 3.2 2.9
10 16 23 35

99.7

4.1 4.8 7.8 7.8 7.7 2.3 2.4
9 14 16 18 25 35

99.7 Rt

4.9 5.0 7.5 5.7 5.6
7 14 20 35

97.1

5.2 5.0 7.8 8.3 8.4 6.4 6.4
7 11 15 18 21 35

96.4 Rt

6.5 6.6 9.1 7.1 7.2
6 13 19 35

Lt. Rt.
95.8

3.1 3.1 5.6 5.8 5.1 3.3 3.6
15 7 3 4 7 15

4.2 4.2 6.4 4.7 4.4
15 8 7 15

3.8 3.5 6.2 6.6 7.1 6.6 6.1 4.5 3.8
15 11 4 2 1 4 8 16

5.0 5.3 6.7 7.0 7.5 7.0 6.9 5.6 5.2
15 10 5 2 1 9 19 15

5.9 6.1 7.9 8.0 8.0 5.1 4.1
15 9 4 3 9 15

Top of stamp.

Sta	+	℄	−	Elev.
		902.52		
19				96.2
20				96.0
20	+76	Flow N. End 42" C.M. Culv.		891.53
21		Flow S. End Culv.		
21				
22				
23				
T.P.		5.33	898.09	9.76	892.76
24				
	+09	N. End 36" C.M. Culv.		889.80
	+27	S. End 36" C.M.		
25				

4. 2 24.

71/15 70/6 93 97/10 97/15

74/15 84/7 96/5 98/2 95 85/5 56/13 53/15 L.O.

1099

777
350
1127

1127

75/15 84/8 97/5 99 95/5 73/11 70/15

80/15 86/11 107/6 111 111/3 102/9 92/11 90/15

87/15 91/9 115/5 121 117/5 103/7 93/10 90/15

52/15 53/10 77/5 78/2 82/1 82 81/1 76/2 64/6 60/10 55/15

829

848

61/15 62/11 85/7 90/3 92 90/4 72/8 65/15

Stg.	+	H.I.	−	Elev.
		898.07		
26				
T.P.	4.21	893.34	8.96	889.13
27				
28				
29				
30				
	+58	Flow Line E. End 36" C.M.		
31	+10	Flow Line W. End 36" C.M.		
	+54	to Ditch Lt.		
	+75.9	Flow Line Conc. Culv. at End of Barrel.		
T.P.	11.37	902.99	1.72	891.62
T.P.	13.56	915.92	0.03	902.36
B.M.			3.80	912.12 ± (912.18)

Lt. Rt. pt.

60/15 65/9 89/3 102 110/1 100/3 96/5 77/8 71/15

Nail in 18" Willow

22/15 23/10 64/3 65 63/3 37/6 35/15

38/15 38/10 70/4 70 70/2 30/9 31/15

48 50/4 71/7 73/11 69/15 55/19 50/27

50/15 52/9 80 59/9 57/15

10.25

10.61

93/100 106

106.8

Spk. in. 18" Box Elder N.W. Cor. Center Ville Rd & Co. Rd "B"

Slope stakes
Ditch #7
Co. Rd. "D" & Edgerton St.

Sta.	+	∧	−	Grade	
B.M.	1.44	910.39			(908.95)
0 +00				02,2	
+25				02.1	
+33				01.8	
1				01.2	
+50				01.0	
2				00.8	
+50				00.6	
3				00.4	
+50				00.2	
4				900.0	
+50				899.8	

0.40 Tp.

6/4/39

Gen. Rock. Lt. R. Rt.

Top Mont Lt. sta. 0+00

9.2

9.4

9.6

9.8

10.0

10.2

10.4

10.6

Sta.	+	H	−	Grade	
		910.39			
5				899.6	
+50				899.4	
B.M.	0.34	909.29			908.95
T.P.	1.77	908.03	3.25	906.04	
6				99.2	
+50				99.0	
7				98.8	
+50				98.6	
8				98.4	
+50				98.2	
9				98.0	
+50				97.8	

6-2-39
K.H.

Gr. Rod	Lt.	Hz	Ht.
10.8			
11.0			

Top Mont. N. ¼ Cor. Sec. 5 - New Canada.

8.83			
9.03			
9.23			
9.43			
9.63			
9.83			
10.03			
10.23			

Sta.	+	H	-	Elev.	
		908.03			
10				97.6	
+50				97.4	
T.P.	6.49	905.90	8.62	899.41	
11				97.2	
+50				97.0	
12				96.8	
+50				96.6	
13				96.4	
+50				96.2	
T.P.	10.20	910.39	5.71	900.19	
T.P.	5.91	911.44	4.86	905.53	
B.M.			2.52	908.93	(908.95)

Gr. Rod

10.43

10.63

8.70

8.90

9.1

9.3

9.5

9.7

Top Mark N 1/4 Cor. 500. 5-

2.5 A/1.00

Edgerton St. Ditch W. Side of Rd. Between Ditch & 12th Ent. N.

			Grade Rod	Not Ground.
B.M.	4.58	913.53		908.95
+75	= ℄ Ditch			
+50			10.05	9.2
2			9.85	9.0
+50			9.65	8.6
1			9.45	8.8
0 +50			9.25	8.7
0+00 Flow Line Culv. N. of Ditch			9.05	

Profile Levels

Pitch #7

Labore to Mississippi.

9-24-51
HAW
AM
M.B

Index Pages 1 to 2

Rec'd. 9-25-51
R.C.

Drawn up

Sta	+	=	−	Elev
B.M	5.97	918.78		912.81
	7.92	923.43	3.27	915.51
0+00 = End 30" V.I Pipe				09.55
1				09.4
2				11.0
3				12.1
T.P.	5.02	922.99	5.46	917.97
4				12.5
5				12.6
6				13.0
7				12.8

Lt ℄ Rt

Top E Edge M.H Rim 21' N of Int Labore / Arcade

Inv

1388

1400

124

113

105

104

100

101

Sta	+	Δ	−	Elev
		922.99		
8				13.4
9				13.5
10				13.8
T.P.	0.88	920.03	3.84	919.15
11				13.6
12				14.0
13				13.4
14				13.4
15				13.4

96

95

92 11.1

Top Fe Post 10+15

64 10.9

60

66

65

66

Sta	+	HI	−	Elev
		923.03		
16				13.8
17				14.0
18				14.2
TP	7.48	923.43	4.08	915.95
19				14.3
20				14.5
21				14.6
22				15.1
+44		S West End 36" CM		15.0
+64		N.E End 36" CM		14.98

Lt	L	Rt
	6.2	
	6.0	
	5.8	11.5
	9.1	11.2
	8.9	
	8.8	
	8.3	
	8.4	
	8.45	

Sta	+	X	-	Elev
		92343		
23				15.0
24				14.8
25				15.1
26	+04	Cord "D" Sec. Line		15.3
T.P	0.99	92296	1.52	92191
27				15.1
28				15.0
+38		36" CM		14.29
+58		36" CM		13.98

5

84

86

83

81 INV

Iron Fr Post 26+15

78 12"

79

86 INV

89

Sta	+	Π	−	Elev
		92290		
29				14.6
30				15.0
31				15.0
32				15.0
33				14.9
T.P	464	92461	293	91997
34				15.1
35				15.4
36				16.0

LT	C	RT
	8.3	
	7.9	
	7.9	
	7.5	
End Define Pitch	8.0	Cow Alley Blocking Ditch
No Pitch 16.3 8.3/50	9.5	16.3 8.3/50
16.2 8.4 75'	8.7 50 9%	16.2 8.4/50
	8.6	

Sta	+	℄	−	Elev
		92461		
37				15.9
38				16.4
38+80				15.7
39				15.9
40				15.7
+34		Beg 6" T/L		16.79
+47		End 6" T/L		16.99
T.P	5.7 ✓	926.75	3.58	921.03
41				17.6

Lt | L | Rt | 7

15.5
9/15 Pothole | 8.7 | Defined Ditch

8.2

8.9

8.7

8.9 130

7.8 V/Inv

Requires 24"

7.6 V Inv | End Ditch

Nail in F. Post West 40+47

17.8
9.0/50 | 9.2 148 | 18.7
8.1
35

Sta	+	H.I.	−	Elev	
		926.75			
42				18.6	
43				19.5	
44				21.2	
45				21.6	
46				22.3	
47				23.8	
T.B.M	4.25	928.59	2.41	926.34	
	3.93	928.07	4.45	924.14	
B.M			3.43	924.84	924.93

Lt ℄ Rt

8.2

7.3

5.6

5.2

4.5

3.0

Spk in 15" Oak 1ft Bellands Yard West of Garage

Spk in T.P. N.E Cor Berwood & Laberr

Ditch #7

Ditch

Sfa

1

2

3

4

5

6

7

8

9

10

11

12

13

Nat Gr.	Btm Ditch
+8.6	00
+7.4	00
+5.0	00
+5.0	00
+4.6	00
+4.0	00
+2.8	00
+2.9	00
+2.2	00
+1.8	00
+1.5	00
+1.0	00
+1.2	00

14

15

16

17

18

19

20

21

22

23

24

25

26

Net Gv	Btm Pitch
+1.3	0.0
+1.6	00
+1.4	00
+1.5	00
+1.3	00
+2.6	00
+3.0	00
+3.0	00
+3.0	00
+3.0	00
+3.2	00
+2.6	0.0
+2.3	00

27

28

29

30

31

32

33

34

35

36

37

38

39

Nat Gr	Btm Ditch
+2.3	0.0
+2.6	0.0
+2.8	0.0
+1.1	0.0
+2.0	0.0
+2.2	0.0
+2.0	0.0
+2.0	0.0
+2.0	
+1.8	