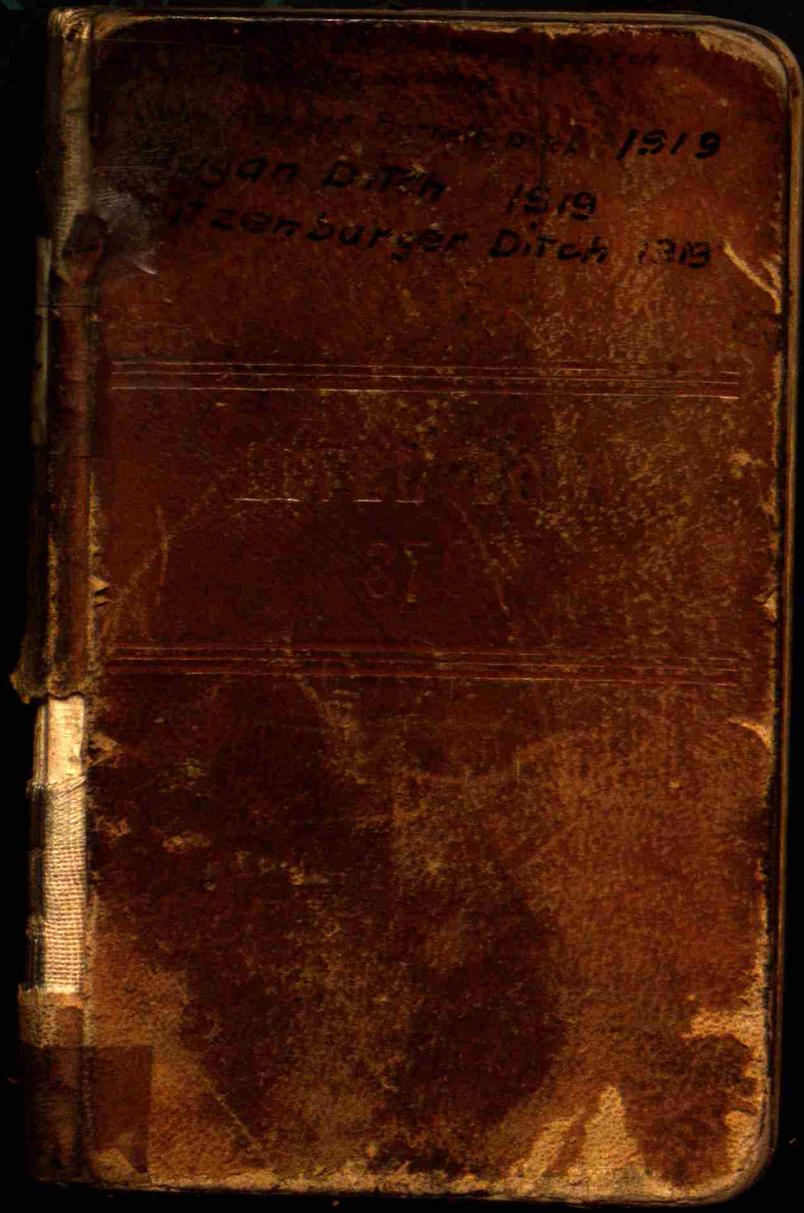


← A4 →

← LETTER →



1919  
1919  
1919

Stat	B.S.	H.L.	F.S.		
0		10.00	5.97	4.03	0.00
			9.40	.60	
1			6.35	3.65	.18
			8.90	1.10	
2			5.84	4.16	.36
			9.50	.50	
3			7.21	2.79	.54
			8.90	1.10	
4			6.67	3.33	.71
			8.95	1.05	
5			6.15	3.85	.89
			8.85	1.15	
6 0			6.30	3.70	1.07
			7.90	2.10	
κ	7.35	11.05			
7			4.02	7.03	1.25
			9.30	1.75	

Stephenson Ditch

Oct. 14, 1916

clear & cool

Paul Carter roadman

C. W. McCune headman

4

8	11.05	4.20	6.85	1.42
		9.55	1.50	
9		5.21	5.84	1.60
		8.80	2.25	
10		4.65	6.40	1.78
		8.70	2.35	
110		3.45	7.60	1.96
		2.00	2.05	
π	649	14.09		
12		7.94	6.15	2.13
		11.75	2.34	
13		8.58	5.51	2.81
		11.75	2.34	
14+30		11.55	2.54	
13.11		1.88	12.21	

LETTER

5

bottom of branch of wand  
 Top of round post at N.W.  
 corner of bridge Tip on top

6

14	14.09	7.76	6.33	2.49
		11.25	2.84	
15		7.27	6.82	2.67
		11.20	2.89	
16	⊙	7.18	6.91	2.84
		10.90	3.19	
17	5.89	12.80		
		5.20	7.60	3.02
		8.85	3.95	
18		8.04	4.72	3.20
		8.89	5.91	
19		2.94	9.86	3.38
		8.30	4.50	
20		3.32	9.48	3.55
		7.80	5.00	
21		3.07	9.73	3.73
		8.05	4.75	

7

stakes on W. side.

8

22 12.80 2.90 9.90 3.91

7.90 4.90

23 0 2.43 10.37 4.09

π 4.93 15.30

23 1 10.45 14.85

24 4.62 10.68 4.26

10.30 5.00

25 6.16 9.14 4.44

10.60 4.70

26 3.70 11.60 4.62

9.60 5.70

27 4.84 10.46 4.80

9.30 6.00

28 5.60 9.70 4.77

9.10 6.20

29 5.38 9.92 5.15

8.90 6.40

9

10

30 15.30 5.70 9.60 5.33

8.20 7.10

T 6.56 16.16

31 5.27 10.89 5.51

8.85 7.31

32 4.71 11.35 5.68

8.15 7.31

33 5.20 10.96 5.84

8.35 7.81

34 4.80 11.36 6.02

8.35 7.81

35 4.27 11.89 6.20

8.80 7.36

36 3.91 12.25 6.37

8.70 7.46

37D 4.38 11.78 6.55

8.60 7.56

T 5.62 17.40

11

12

38 17.40 7.94 9.46 6.73

9.75 7.65

39 7.92 9.48 6.91

9.85 7.55

40 7.72 9.78 7.05

9.50 7.90

41 DM. 1.90 15.50 7.26

7.80

42 4.85 12.55 7.44

9.70 7.70

43 4.53 12.87 7.62

9.45 7.95

44 4.22 13.18 7.73

8.90 8.50

π 5.83 19.01

45 5.90 13.11 8.00

10.80 8.21

13

Top parapet 10' E. of wind

Side

14

46 1901 5.23 13.78 8.21

10.45 8.56

47 5.00 14.01 8.92

10.10 8.91

48 5.63 13.38 8.63

9.70 9.31

49 5.72 13.29 8.84

9.20 9.81

50 6.00 13.01 9.04

8.90 10.11

51 5.31 13.70 9.25

8.60 10.41

π 6.88 20.58

52 7.63 12.95 9.46

10.20 10.38

53 8.45 12.13 9.67

10.00 10.58

15

51 + 50 leaves road



16

54 20.58 8.91 11.67 9.88

9.65 10.93

B.M. 5.19 15.39

55 5.69 14.89 10.08

9.85 10.73

56 6.00 14.58 10.29

9.65 10.93

57 5.32 15.26 10.50

9.70 10.88

58 G 6.81 13.77 10.71

9.20 11.58

A 10.94 24.71

59 9.40 15.31 10.92

12.50 12.21

60 7.47 17.24 11.12

12.60 12.11

61 7.38 17.35 11.33

12.95 12.26

17

E end retaining wall

58 + 40 road N 4 S

18

62 24.71 7.11 17.60 11.54

12.25 12.96

63 7.52 17.19 11.75

12.30 12.91

B.M 3.05 21.66

64 7.65 17.06 11.96

11.70 13.01

650 6.55 18.16 12.16

11.40 13.31

K 6.32 29.98

66 6.05 19.43 12.37

11.05 13.93

67 6.07 17.41 12.58

10.80 13.68

68 5.48 19.00 12.79

10.50 13.98

69 5.38 19.10 13.00

10.20 14.28

19

W. and N. Gannister

20

70 24.48 5.91 18.57 13.20 ✓

10.00 14.48

71 5.24 19.20 13.41

9.90 14.58

720 5.13 19.35 13.62

7 6.40 25.75

72 14.55

73 6.26 19.69 13.83

11.20 14.55

74 6.24 19.51 14.04

10.40 15.35

75 5.70 20.05 14.24 ✓

10.10 15.65

76 5.15 20.60 14.45

9.65 16.10

77 5.48 20.27 14.66

9.70 16.55

21

22

78 0 2575 5.01 21.79 14.87

16.40

π 5.57 26.31

79 0

5.70 20.61

π 6.32 26.93

79

5.91 21.02 15.08

10.80 16.13

80

5.70 21.23 15.28

11.45 15.48

81

6.73 20.20 15.49

10.45 16.48

B.M.

6.47 20.47

82

4.39 22.54 15.70

11.00 15.93

83

4.53 22.40 15.91

10.70 16.23

84

4.20 22.73 16.11

10.30 16.63

23

Low point wall, between 87182

24

85 D 26.93 4.55 22.38 16.33 ✓

9.70 17.23

T 6.50 28.88

86 8.75 20.13 16.54

11.15 17.73

87 6.35 22.53 16.75

11.80 17.08

88 5.84 23.04 16.96

11.50 17.38

89 4.74 24.14 17.16

11.10 17.78

90 ⊙ 2.84 26.04 17.36 ✓

10.60 18.28

π 4.58 30.59

91 3.70 26.82 17.59

12.20 19.39

92 5.85 24.74 17.79

12.00 18.59

25

26

93 30.59 5.71 24.88 18.00

19.00

94 5.13 25.46 18.20

π 5.31 30.77

94 11.50 19.27

95 4.05 26.72 18.41

19.30

96 5.05 25.72 18.62

11.40 19.37

97 4.54 26.23 18.83

11.60 19.17

98 4.98 25.79 18.99

11.10 19.67

99 4.31 26.46 19.20

10.50 20.27

100 4.40 26.37 19.47

10.30 20.47

27

28

1010 30.77 3.99 26.78 19.74

 $\pi$  5.11 31.89

101 11.20 20.69

102 5.85 26.04 20.02

10.80 21.09

103 4.93 26.96 20.27

10.70 21.19

104 4.85 27.04 20.54

10.70 21.19

105 5.00 26.89 20.81

10.35 21.54

106 4.46 27.43 21.08

10.30 21.59

107 6.52 25.37 21.33

9.60 22.29

108 8.14 23.75 21.60

9.20 22.69

29

109 0 31.89 4.61 27.28 21.87

9.20 22.69

 $\pi$  6.09 33.35

110 4.83 29.52 22.14

10.60 22.75

111 6.40 27.95 22.39

10.50 22.85

112 5.00 28.35 22.66

10.20 23.15

113 5.98 27.37 22.93

10.00 23.35

114 6.45 26.90 23.20

9.50 23.85

114+54 B.M. 6.75 26.60 23.34

9.60 23.75

directly over tile  
 concrete walk, at end of tile  
 bottom of tile



34

Wells Arm of Barnett  
Ditch

Sta.	B.S.	H.I	F.S.	EI.	EI.
0-11			990	93.84	
0		103.74	374	100	
			947	94.39	
1	3.90		530	97.84	
	9.34			94.43	
2 <sup>62</sup> 10	4.55			99.19	
	9.34			99.40	
3		105.46	4.67	100.79	
			10.85	99.61	
4 <sup>47</sup> 11	3.82			101.64	
	10.81			94.65	
5	5.00	105.81		100.81	
	11.19			94.62	
6 <sup>51</sup> 0	5.35			100.96	
	10.76			95.05	
6 +40	11.20			94.61	
6 +58	11.12			94.69	

35

Remarks

Center Barnett Ditch  
Stakes on S bank

Aug. 12, '19.

Clear &amp; Hot

Jim Fleece, Rodman

C. D. Gossett, levelman

Completed Aug. 22

Clear &amp; windy.

Stakes on north bank

W. end of Tp. Line Bridge  
E. " " " "

36

Sta	B.S.	H.I.	F.S.	El.
BM		105.57	485	105.72
7			4.70	100.87
			9.84	95.73
8 <sup>238</sup>	4.43			101.4
	9.60			95.97
9		104.49	4.16	100.33
			8.14	96.35
10 <sup>288</sup>			4.80	99.69
			8.27	96.22
11 <sup>0</sup>		104.57	4.43	100.14
			8.20	96.37
12	1.60			100.75
			6.11	96.59
13				100.45
				95.31
14 <sup>00</sup>				101.28
				95.75

Remarks

37

NE. Flying buttress of Tp. line bridge  
top step marked with a +.

Tile ditch at Sta 12 from S.  
12+90 Wire fence

38

Sta.	BS	HI	FS	EI.
15				100.55
				96.39
16°				100.30
				96.15
17				100.40
				96.43
18°				100.30
				96.98
19				100.45
				97.30
20°				100.85
				96.75
21				100.51
				96.83
22°				100.60
				97.05
22+50				97.51

39

Bend northward

20+90 Tile ditch N. 96.90 EI.

Tile ditch South

40

Sta

23

E1.

99.72

97.64

24<sup>o</sup>

101.67

97.80

24+60

97.70

Tile ditch N.

Tile ditch South

25

102.15

97.99

26<sup>o</sup>

102.15

Tile ditch North 97.88

98.01

27

102.77

98.33

28<sup>o</sup>

103.17

98.49

29

103.77

98.54

30<sup>o</sup>

104.18

98.52

41

42

Sta.

E1.

31

103.27

99.38

32

104.85

99.23

33

104.56

99.48

34 °

102.55

99.64

35

105.57

99.82

36

104.84

99.97

37

104.60

100.21

38

105.08

100.30

39 °

104.48

100.61

43

Wire fence into Joneses pasture

44

Sta.

40

E1

104.39

100.83

41

104.96

100.85

42

104.36

100.93

42+15

101.32

43°

105.15

101.10

44

104.39

101.20

44+66

104.62

100.15 <sup>TOP 7.16</sup> 100.91

100.35 <sup>TOP 7.14</sup> 100.95

45

In Joneses' Corn field

Tile ditch from N.

Tile ditch from NE 5" tile

" " " SE 6" tile

The end of ditch is low. 1.20'

46

Barnett Ditch at end of  
Wells Arm.

Sta.	EI.
0	100
0'-10	93.86
0'	93.78
0'-100	93.71
1'	93.60
2' °	93.53
3'	93.68
4'	93.45
5' °	93.76
6'	93.52
6'+40	93.00 <sup>on bridge</sup> 98.30

Wed Aug. 27 '19.  
Clear & temperate  
Jim Fleece rodman  
C.O. Gosssett levelman

Old hub on Wells arm  
Mouth Wells arm  
In Barnett ditch W. of Sta. 0.

Bridge

← B.M. Bottom floor  
at NE cor.  
?

Maplewood

18 Dugan Drain

Sta.	B.S.	H.I.	FS	El.
0+00	5.84	105.84		100
		9.59		96.25
0+40	3.77			102.07
B.M	3.77			102.07
1+00			4.20	101.64
			4.54	100.30
2+00			4.35	101.49
			4.44	101.40
3+00			3.84	102.00
			3.92	101.92
4+00	4.57	106.72	4.80	102.15
			4.71	102.01
5+00	8.03			98.69
			8.92	97.80
6+00	6.66			100.06
			6.52	100.20
7+00			4.22	102.50

all stakes on left Dec. 27, 1919.  
 side proposed ditch  
 1-13+21 2' left of C.O. Gosssett  
 all others 8' left of levelman  
 Jim Fleece  
 Rodman,  
 Cold & Windy

Center of road  
 middle bolt S. header of arch

Bed at Gosssett's 0+200 (under  
 B.M.) is app. 96.07

6001-30"

In ditch  
 need 1001-16"  
 Join-16" ditch here. t. file

Old channel 98.72  
 Elev 16'-f.l. about 98.00-possibly 97.50



Sta.	B.S.	H.I.	F.S.	E.I.
			4.27	102.45
	6.14	108.64		
	11.15			97.49
8+00	5.98			102.66
	6.00			102.64
9+00			6.33	102.31
			7.36	101.28
10+00			6.51	102.13
			5.47	103.17
11+00			5.68	102.96
			5.36	103.28
	6.75	109.71		
12+00	6.02			103.96
	5.91			103.80
13+00	6.40			103.31
	7.66			102.05
13+21	9.69			100.02
	4.44			105.27

Mouth of ditch from N

Proposed ditch in old ditch.

W. header of Arch

In old ditch at W. end of arch  
B.M. on highest point of W. heads

Sta	B.S.	H.I.	F.S.	El.
14+00			6.06	103.65
			9.35	100.30
	5.20	108.85		
	7.98			100.87
15+00	4.62			104.23
	8.15			100.70
16+00			3.61	105.24
			7.87	100.98
17+00			3.80	105.05
			7.63	101.22
	5.36	110.41		
18+00	4.67			105.74
	8.56			101.85
19+00	4.32			106.09
	8.62			101.79
20+00			4.24	106.17
			8.22	102.52
	4.57	110.74		

Ditch S.

54

Sta	B.S.	H.I.	F.S.	El.
21+00	4.43	110.74		106.31
	8.24			102.50
22+00			4.18	106.56
			8.78	101.96
23+00			3.67	107.07
			7.30	103.44
	5.56	112.63		
23+36	9.00			103.63
24+00	4.89			107.74
	9.28			103.35
25+00			3.85	108.78
			9.19	103.44
26+00			4.29	108.34
			4.44	108.19
27+00			4.60	108.03
			4.62	108.01
	4.62	112.65		
27+50	9.11			103.54

55

Ditch S. ditch N

New ditch continues E. old drain angles SE

{ 75' S. Proposed ditch  
2 ditches S. 1 ditch N.

56

57

Sta.	B.S.	H.I.	F.S.	El.
27+80	5.11			107.54
28+00	5.00			107.65
	4.85			107.80
28+25			4.24	108.41
			8.52	104.13
29+00			3.81	108.84
			8.61	104.04
	5.84	114.68		
29+45	9.06			105.62
	5.64			109.04
30+00	8.44			106.24
	10.60			104.08
31+00			5.47	109.21
			10.17	104.51
32+00			5.37	109.31
			10.50	104.18

Old drain angles NE proposed ditch meets old drain

Old drain angles more to E new ditch cuts off corner

2 Ditch N. Old drain angles

Sta	B.S.	HI	F.S.	EI
	5.64	114.95		
33+00	5.40			109.55
	10.34			104.61
34+00	5.58			109.37
	10.55			104.40
35+00	5.92			109.03
	9.63			105.32
36+00	4.64			110.31
	9.24			105.71
37+00		4.63		110.32
		9.29		105.66
	5.20	115.52		
38+00	4.99			110.53
	9.97			105.55
39+00	6.53			108.99
	9.53			105.99
40+00	6.23			109.29
	9.49			106.03

Ditch N.

Ditch S

ditch S

add ditch angles NE

several ditches interval

Sta	B.S.	HI.	F.S.	El.
41+00			6.27	109.25
			8.99	106.53
	7.03	116.28		
42+00	4.44			111.84
	9.39			106.89
43+00	5.03			111.25
	9.48			106.80
44+00	5.62			110.66
	9.61			106.67
45+00			7.61	108.67
			9.44	106.84
	8.76	117.43		
	4.94			112.49
46+00	5.06			112.37
	5.22			112.21
47+00	4.86			112.57
	10.16			107.27

old ditch angles N  
1.2" tile ditch E

Bed of old ditch line is  
below S. header of arch  
106.83  
106.83  
5.66

B.M. S header of Arch

old ditch angles N.E.

New ditch goes E. of Arch

Sta.	B.S.	H.I.	F.S.	E.I.
48+00			4.97 9.13	112.46 108.30
	3.98	116.44		
49+00	3.88			112.56
	8.86			107.58
50+00	4.17			112.27
	8.47			107.97
51+00			3.56	112.88
			8.50	107.94
	3.52	116.40		
52+00	3.44			112.96
	8.48			107.92
53+00			5.92	110.48
			7.84	108.56
54+00			4.50	111.90
			7.89	108.51
55+00	4.47	116.37		

Dragon tile.

0-6+00	-30"
6+00 to 27+80	-20"
27+80 .. 35	-18"
35-46	-16"
46-56	-14"
Ditch W.	56-68+29-12

Property owner furnish  
connections & necessary tile  
& trench. Contractor lay tile  
new & hook up  
connections

Sta	B.S.	HI	FS	E1
55+00	4.44	116.37		111.93
	7.70			108.67
56+00			4.02	112.35
			7.84	108.53
57+00			4.06	112.31
			7.59	108.78
	4.26	116.57		
58+00	4.04			112.53
	7.95			108.62
59+00			3.84	112.73
			8.03	108.54
60+00			4.03	112.54
			7.92	108.65
			5.08	111.49
61+00			4.12	112.45
			8.08	108.49
	4.08	116.45		

On ground off berm



Sta	B.S.	H.I.	F.S.	E.L.
62+00	4.85	116.95		111.60
	7.56			108.89
63+00	4.10			112.35
	7.38			109.07
64+00			4.09	112.36
			7.18	109.27
			5.14	111.31
65+00			3.80	112.59
			6.34	110.11
	3.94	116.53		
65+40	6.77			109.76
66+00	4.30			112.23
66	6.71			109.82
66+24	6.25			110.28
	5.18			111.25
67+00			3.95	112.58
			6.40	109.13

Open ditch E. 6" tile W.

In field off berm

Tile ditch E. 6" tile

Tile ditch W 6" tile

In field at 66+24

Sta	BS	H.I.	FS	Elev.
68+00			4.14	112.39
			6.28	110.25
68+29			4.46	112.07
			6.16	110.37
			4.85	111.68

to have the following pro rat on their acreage for one half of cost of 30" tile plus 100' - 16" tile to hook their ditch to Dugan ditch at sta. 6.

Ina Schaffer ✓	30	Mary Fisher	91
E.E. Stipes ✓	38	W.E. Swain	70
P.E. Ray ✓	50	Jasper Fisher	25
Grant Martin ✓	76	Ray Stevenson	1
Tom Swain ✓	40	Nick Koebnick Est.	55
Mary Warnick ✓	25	Geo Pierson	26
		Smock	4

2 ditches N. 5" tile

Ground 20' N. of Sta. 68+29

Time-  
1 da. qual.  
Haynes - stake - 1 da. - view - 4 da. - assess -

1 da. reporting

Dugan - 1 da. qual. + livery + livery  
Patterson - staking - 2 da. viewing + livery  
assessing 4 - + livery - 1 da. reporting  
+ 2 - 6.

Smock joins Pierson on East  
Martin buys 50 - tenant.

70

## Ditzenberger Drain

Sta.	B.S.	H.I.	F.S.	E.L.
0+00	6.96	106.96		100
0	8.49			98.47
0+50	5.14			101.82
	9.51			97.45
1+00	4.42			102.54
	8.53			98.43
2+00			3.74	103.22
			8.38	98.58
3+00			3.96	103.00
			8.34	98.62
	3.42	106.42		
	4.40			102.82
4+00	3.25			103.17
	7.59			98.83
5+00			3.84	102.58
			7.53	98.89

All stakes  
on left hand

side of ditch

8' from center

Mouth Wills &amp; Watson drain

10" tile from W

Ground W. of stake

Dec. 29-30, 1913

C.O. Gossett levelman

Jim Clark rodman

Dec. 29, Cold &amp; snowing

Dec. 30, fair &amp; temperate

Sta	B.S.	I.I.	F.S.	E.I.
6+00			5.02	101.40
			7.29	99.13
	4.83	10623		
7+00	5.05			101.18
	7.11			99.12
	5.19			101.04
8+00			4.08	102.15
			7.09	99.14
9+00			3.96	102.27
			6.93	99.30
	4.90	10717		
10+00	4.72			102.45
	7.73			99.44
	4.86			102.37
11+00			3.88	103.29
			7.73	99.44
12+00			4.79	102.38
			7.70	99.49

On ground W. of stake

On ground W. of stake

Sta.	B.S.	H.I.	F.S.	E.I.
	4.44	106.82		
13+00	4.76			102.06
	7.10			99.72
13+60			4.83	101.99
			6.95	99.87
14+00			5.10	101.72
			6.87	99.85
	6.04	107.76		
14+30	5.92			101.84
	7.69			100.07
	6.33			101.43
15+00	5.66			102.10
	7.68			100.08
16+00			4.17	103.59
			7.34	100.42
17+00			3.92	103.84
			4.68	103.08

75

Cut off begins here (Sta. 13)  
 Runs to old sta. 17+00  
 which is now 17+83 - station  
 18 and succeeding stations  
 are unchanged. Ditch is  
 lengthened 83'-0"

Rt. angle turn to W.  
 Intersection of open ditch from N  
 On ground at intersection

Proposed ditch north of old  
 channel

Sta	B.S.	I.I.	F.S.	E.I.
	5.60	109.44		
17+83	6.03			103.41
	5.99			103.45
18+00			6.89	102.55
			8.72	100.72
			5.89	103.55
	6.45	109.00		
19+00	4.24			104.76
	8.20			105.80
20+00			4.99	104.01
			7.84	101.16
21+00			6.74	102.26
		error	9.95	104.28
	7.17	109.43		
	5.30			104.13
22+00	5.77			103.60
	5.74			103.67

100' from 17+83 to Sta 18+00

On ground N of ditch

Cutoff should begin at 21  
and run to about 25+20  
the old open ditch should  
be intersected.

The ditch N  
Proposed ditch leaves old ditch  
and continues due W.

On ground N of old ditch  
this will lengthen proposed  
ditch less than 100'.

Sta	B.S.	H.I.	F.S.	E.I.	
78					
23+00			5.42	104.01	
			5.28	104.15	
24+00			4.70	104.73	Crosses old channel
			7.84	101.59	
25+00			3.52	105.91	
			3.86	105.57	
			7.22	102.21	Tile ditch 150' N of sta 25.
			7.64	101.79	Bottom old channel
	5.5	111.42			
26+00	5.97			105.45	
	6.17			105.25	
27+00	4.85			106.57	Proposed ditch meets old drain
	9.23			102.19	and angles S.W.
27+56	8.86			102.56	Ditch N.
	8.95			102.47	Channel old ditch
28+00			4.16	107.26	
			9.03	102.39	

80

Sta	B.S.	I.I.	F.S.	E.I.
29+00			4.67	106.75
			8.60	102.82
	4.68	111.43		
30+00	4.06			107.37
	8.52			102.91
31+00			3.35	108.08
			8.20	103.23
32+00			3.82	107.01
			7.69	103.74
			4.27	107.16
	4.81	112.42		
33+00	4.32			108.10
	8.56			103.86
34+00			4.08	108.34
			8.12	104.30
35+00			3.65	108.77
			7.83	105.59
			6.34	106.08

81

Channel runs W.

ditch S

On ground S. of stake

Ditch N



82

Sta	B.S.	HI.	F.S.	EI
	5.17	113.94		
36+00	5.01			108.93
	9.09			104.55
37+00	4.94			109.00
	5.03			108.91
38+00			4.56	109.38
			4.46	109.48
39+00			3.57	110.37
			3.68	110.26
	5.31	115.68		
40+00	4.81			110.87
	8.96			106.72
41+00			3.99	111.74
			8.47	107.21
42+00			3.57	112.17
			7.85	107.83
	6.12	118.29		
42+50	9.77			108.52

83

Old channel angles SW new ditch  
continues W.

New ditch angles to N.W.

New ditch meets old, course N.

Ditch W 4" tile

84	Sta	B.S.	H.I.	FS	E.I.
		10.65			107.64
	43+00	7.36			110.93
		10.60			107.69
	43+75	10.46			107.83
	44+00	7.26			111.03
		10.22			108.07
		9.60			108.69
	45+00			5.73	112.56
				9.81	108.30
		5.55	118.11		
	46+00	6.07			112.04
		9.19			108.92
	47+00			5.28	112.85
				8.62	109.49
	48+00			4.48	113.63
				8.31	109.80
		1.99	118.62		

85

Sewer

5" tile from W. at sta 44+00  
Ditch angles N.E.

Ditch angles N

Ditch angles N.W.

86

Sta.	BS	H.I.	FS	EI.
49+00	5.13			113.49
	8.75			109.87
50+00	5.60			113.02
	8.40			110.22
	5.24			113.38
51+00			5.30	113.32
			8.03	110.59
51+50			8.65	111.27
52+00			4.32	114.30
			8.08	110.54
	5.62	119.92		
53+00	5.67			114.25
	9.41			110.51
54+00			4.93	114.99
			9.11	110.81
55+00			4.54	115.38
			8.44	111.48
			4.33	115.59

87

On ground S of stake

Open ditch N

End sewer sewer 12"  
Middle of road

Sta.	BS	H.I.	FS	E.I.
55+22			5.27	114.65
			8.21	111.71
			8.70	111.22
53+00	6.12	120.37		114.25
54+00	5.38			114.79
55+80	4.97			115.40
55+22	5.69			114.68
Stump	3.19			117.15

W end sewer.  
8" tile along E side of road from N

BM Stump N. 5° E Sta 55+00

90

22+00 4.61 108.27

21+00 5.98

3.99

20+00 4.26

1.18

Wills - Watson Ditch at mouth  
of Ditzenburger

1+00 3.97 106.51

0+00 6.54

0 w 8.32

1 w 8.26

2 w 8.41

3 w 8.54

4 w 8.76

5 w 8.91

B.M. 3.43

103.66

102.29

104.28

104.01

107.09

B.M. 20" Elm stump 20 feet W Sta 20

102.54

99.97

98.19

98.25

98.11

97.97

97.75

97.65

103.08

Sta 1 & 2 on Ditzenburger  
Ditch

Mouth Ditzenburger Ditch

B.M. highest point on Ash stump  
S. 60° E of sta 0+00 Distance 40'

91

to 3/3-20

June Ditzberger 3-1/2

Patterson - 1 qual. <sup>livery</sup> 1 da. staking -

2 da. viewing + livery -

(3) on 3/8-20.

1 da. <sup>assess</sup> viewing + 2 livery. 1 da. report

+ livery.

Haynes - 1 qual. 1 da. <sup>livery</sup> staking -

2 da. viewing + livery -

1 da. assessing + livery, 1 da. qual.

Tile sizes:

50' - 20"

1350' - 18"

1000' - 15"

500' - 14"

2827' - 17"

Bridge 93.30 — BM Top Step N.E. Cor.

1 93.10 Marked by an X

2 92.74

3 93.11

4 92.59

1 92.59 Mouth Barnett Ditch

2 92.70

3 92.15

4 92.33

5 92.01

6 92.30

7 92.50

8 91.37

9 92.30

10 91.95

11 91.77

96.84

97.12

97.21

95.74

96

12	91.16
13	91.64
14	91.47
15	91.10
16	91.63
17	91.42
18	91.62
19	91.57
20	91.12

96 7.5

97





## Run Dugan Ditch

53 110.98  
 8 108.59  
 1 111.68  
 2 112.72  
 3 112.06  
 4 112.56  
 5 112.70  
 6 112.91  
 7 112.88  
 8 113.07  
 9 112.76  
 10 112.62  
 11 112.53  
 12 113.13  
 13 113.48  
 14 112.63  
 15 113.22  
 16 113.50

Hub stake

Bottom stake

17 113.60  
 18 113.46  
 19 113.71  
 20 112.64  
 25 + 90 112.63  
 Hole  
 20' <sup>1/2</sup> of 20 112.17

112.17  
 6.50  


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 110.67  
 100.09  


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Dugan Drain Assessment

Name	Acres Benefitted	% Benefits	No. 100 Acres	Dollars Benefitted
Ira Shafer	4.00	100	4.00	57.50
E.E. Stipe	2.00	100	2.00	28.75
Matie Heltsdew	19.00	95	18.05	259.46
Glenn Arnold	5.00	85	4.25	61.09
Ed. Ray	41.00	100	41.00	599.35
Lulu Buckingham	28.75	95	27.31	392.57
Marten Stipe	80.00	85	68.00	977.47
J.W. Buckingham	6.00	60	3.60	51.75
J.E. Parker	1.00	60	.60	8.62
Elizabeth Spriggs	80.00	100	80.00	1149.96
Mary Warnock	20.00	100	20.00	287.49
J.H. Dugan	35.00	100	35.00	503.11
Grant Martin	2.00	70	1.40	20.12
E.G. Ross	40.00	95	38.00	546.93
A. Melling	30.00	100	30.00	427.73
	21.00	80	16.80	235.11
Vince Denny	21.00	70	14.70	211.30
T.S. Catron	25.00	70	17.50	251.56
Robt. W. Blanton	15.00	70	10.50	150.94
Middle				6720.00
Center Township for:				
Road E-W thru Center Sec. 22-16-1W.				60.00
" N4S " " NE9 " " " "				60.00
" E4W " " NW " 24 " "				60.00
			432.71	6400.00
				700.00
				7100.00

Chgd. to 530A.  
Total Assessment

6720 = 14.37% per 100% Area.  
482.71

Dugan Drain Assessment - For arm connecting up 16" tile. All 100% Acres

Name	Acres	Dollars
Ira Shafer	30.00	39.62
E.E. Stipes	35.00	50.19
Mary Fisher	90.00	118.87
Tom Swain	40.00	52.83
P.E. Ray	50.00	66.04
W.E. Swain	70.00	92.45
Jasper Fisher	25.00	33.02
Ray Stevenson	1.00	1.32
Nick Koeblich Est.	55.00	72.64
Geo. Pierson	26.00	34.34
Mary Warnock	25.00	33.02
M. Smock	4.00	5.28
Grant Martin	76.00	100.38
Total	530.00	700.00

700  
530 = 1.3207547 per Acre

6.60 Koeblich  
25.10 Pierson  
7.93  
39.63  
7100  
39.63  
7060.37

104

## Cast Pitzzenburger Drain

Tile	Pieces		
50' - 20" @ 600 <sup>00</sup>	30.00	25	
1350' - 18" @ 500 <sup>00</sup>	675.00	675	
1000' - 15" @ 330 <sup>00</sup>	330.00	500	
500' - 14" @ 265 <sup>00</sup>	132.50	250	
2877' - 12" @ 200 <sup>00</sup>	564.40	1411	
Total cost tile	1731.90		1731.90

Haul.	Total Ft.	Pc. per 1000	No. loads	
20" 25	32	3 1/4 (1)		Haul - 3 mi. One
18" 675	36	18		Way - 3 loads
15" 500	44	12		daily @ 2.50
14" 251	56	5		per load -
12" 1411	84	17		
		53		

53 loads @ 2.50 = 132.50

Header - 5 yds @ 20<sup>00</sup> = 100.00

Digging, laying & covering -  
 5877' @ 20<sup>00</sup> per 100' = 1165.40  
 Connections 50.00  
 7% tile cost increase 100.00  
 Incidentals - 371.40

105

Forward  
 Profit @ 10%  
 Court Costs

3399.40  
340.00

atly. 160.00

Survey 80.00

brewer 80.00

Court 100.00

420.00

420.00

Total

4159.40

Estimated @ 4160.00

5/27-28

by J.W. Haynes  
 Charles Peterson  
 J.P. Johnson



Bannet Ditch S. from Mouth Wells gnm  
E1.

B.M.  
Readings

	100.72	← N.E. Buttress Top Step Marked with T
	92.75	N+S Road at intesection with Wells Ann
1	93.85	Center Bannett Ditch at Mouth Wells Ann
2	100.36	300' S Wells outlet on Bank
3	99.70	500' S.W. of No 2 in Field
4	98.91	
5	98.04	Top, Bottom Step S.E. Wing CH&D R.R. Bridge
6	92.60	Ditch at S. line CH&D Right of way
7	92.30	" 700' S RR Bridge
8	99.01	In Field
9	98.40	In Field
10	91.44	Ditch N. end Bridge at Turp. Line
BM	101.80	S Rail E. end
11	96.65	In Field
12	90.10	Ditch 1300 S Turp line

E1.

13

95.75

Field

14

94.97

Field

15

89.87

Ditch at intension with W. Fork

16

98.65

Field

17

B.M

99.59

Top Iron Rail ing SE con Bridge ~~St~~ at

point where Ditch crosses Lebanon Road

18

87.90

Ditch Bottom at Lebanon Road

Barnett Ditch Distances

	Distances	Elev.
0	Wells Arm. Intersection	93.85
640'	S 30° W	
380'	S 45° W	
200'	S 30° W	
700'	S 30° W	
660'	W CH&D. Rail Road Right of way	92.60
1700'	S 20° W Twp Line E+W	91.44
3000'	S 50° W Fork Barnett Ditch	89.87
1180'	S 50° W Lebanon Road	87.90
8400'	Total Dist	

5.95' = Total Fall for 8400'



114  
Advance Notes on the Card Draw  
furnished 7/2-20 by Wm G. Berry  
Frank Caudy on N. side of  
road just a house near head  
of ditch as staked wants in.  
Set levels to see if he can get  
in, thru freightmaster's place  
where tiles are laid.

115  
Wells Ann  
Sta St Top 8" Title  
44+66<sup>10</sup> 4.61 100.91  
O Top 12" Top 14" 1.10  
600' NE 103.51 101.40 ← 100.90  
O 700' NE of Jones E. line 105.40 ←  
O 376<sup>N</sup> E of 2 105.00 ←  
Rail fence  
Running on  
Colby land

John G. McCord  
 115 rain  
 Estimate

45 - 40  
 6 55  
 70

4616

700  
 1100 1300 18" tile 945.00  
 500 1450 16" 525.00  
 2250 14" 480.00  
 250 12" 254.00

4500  
 1290 tile increase 2204  
 296  
 2500.00

Haul 150.00

Digging-laying+Cover 695.00

Connections-12@50 60.00

Conc. Head wall 6 curyd. 150.00

Incidentals 100.00

Survey 100.00

Commissioners 200.00

Court Costs 100.00

4095

Atty 200

4295.00

10% profit - 360.00

4655

Estimated @ 4600 9/1-20

John G. McCord - Costs

J. W. Hayes - 6/30-20; 7/17, 7/20 - staking & levels 9/1-9/12 - assessing - 9/14 + 9/15 (1/2) each. 1 equal + 1 (9/30) reporting. Total 9/1

8 da. @ 3.00 24.00  
 8 trips livery @ 2.50 20.00  
 6 trips livery to Johnson - 7.50 44.00

Wm. A. Berry:  
 1 equal. 1 viewing & staking - 2 assessing  
 1 reporting. Total 5 da. @ 3.00 15.00  
 Livery - 3 @ 2.50 7.50  
 3 @ 1.25 3.75

J. P. Johnson:  
 2 da. view - 1 da. assess. 1 da. report 4 @ 4.00 16.00  
 Livery 2 da. @ 2.00 4.00  
 Gossett: 3 da. stak & levels 2 - profile 4 @ 4.00 16.00  
 Livery 2 da. @ 2.50 5.00  
 King - 1 - levels <sup>Gossett</sup> livery 2.50 2.50

Clark 1 - helper  
 Harvey - 2 - levels - Barnett - 2 - restaking & levels - 1 - staking + plotting turn. 5 da @ 4.00 20.00  
 Livery - 5 @ 2.50 12.50

Steeg - 4 da. levels - 1 da. plotting 5 da @ 4.00 20.00  
 Roy Riggins - 1 helping Harvey 2.50

Total survey 106.00  
 Total viewers 67.75

By J. P. Johnson Wm. A. Berry  
 J. W. Hayes

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Name	Acres Benefitted	% Benefits	Ditch 100% Acres	# Benefitted
	20	75	150.00	
John G. McCord	60/80	100	60.00	1063.67
	20	75	150.00	
D. D. Jones + Anna	60/80	90	54.00	978.57
	20	75	150.00	
Jasper Fisher	40/50	60	240.00	553.10
W. F. Fisher	40	60	240.00	340.37
Martha Wells	40	75	30.00	425.46
	5	90	4.50	
J. C. Eastern	25	75	18.75	400.64
	5	100	5.00	
Thos. Long	28	60	16.80	238.76
Robt. Pearson	20	60	12.00	170.19
Frank Cassidy	10	60	6.00	85.09
Sarah J. Hill	10	60	6.00	85.09
Oliver Howard	7	60	4.20	59.56
	410.00		310.25	4400.00
N + S. Road.				\$80.00
E + W Road.				\$120.00
Union Tp. Middle				160.00
Union Tp. Middle				40.00 160.00 400.00

Total - 4600  
TWPs 201  
4400

$$\frac{4400}{310.25} = 14.182111$$

$$370.25 \left\{ \begin{array}{l} 4400 \\ 31025 \\ 129700 \\ 124100 \\ \hline 56500 \\ 31025 \\ \hline 254750 \end{array} \right. 14.18$$

## Bannett Ditch

Stake

6	100.41	97.15	-1.80	95.35	.17	obs.
5+50		97.05	-1.80	95.25		
5	101.73	96.65	-1.80	94.85	.25	below
4+50		96.57	-1.80	94.77		
4	102.46	96.59	-1.80	94.79	.22	below

Top	Bottom
Tile	Tile

9+00	100.07	96.65	95.89
			<u>95.42</u>
			.47

124

Dugan Drain Restaked  
March 1921

Stake

9610

Red St 0  
0+25  
E. End S. Hole

0	
0+25	102.04 ✓
1+00	101.55 ✓
2+00	101.23 ✓
3+00	101.76 ✓
4+00	101.99 ✓
5+00	100.18 ✓
6+00	100.25 ✓
7+00	102.33 ✓
8+00	102.51 ✓
9+00	100.97 ✓
10+00	102.25 ✓
11+00	102.80 ✓
12+00	103.65 ✓
13+00	103.98 ✓
14+00	103.37 ✓
15+00	103.97 ✓
16+00	104.93 ✓

105.10

BM W.  
Hdn.

1.55

125

17+00	104.76 ✓
18+00	105.47 ✓
19+00	105.93 ✓
20+00	105.90 ✓
21+00	106.11 ✓
22+00	106.40 ✓
23+00	106.82 ✓
24+00	107.56 ✓
25+00	108.30 ✓
26+00	107.10 ✓
27+00	108.00 ✓
28+00	106.19 ✓
29+00	108.63 ✓
30+00	105.45 ✓
31+00	106.03 ✓
32+00	108.95 ✓
33+00	109.00 ✓
34+00	109.25 ✓
35+00	108.95 ✓
36+00	108.72 ✓

old Route

Sta Stake

25 108.30

26 105.03

27 107.80

27+50 107.56

27+80 107.13

28+00 107.30

28+25 108.10

29+00 108.63

BM 112.49

T.P. tile 105.45

7.04

T.P. tile 105.45

1.55

103.90

Grade

+1.75

101.75 103.50

101.97 103.67

102.08 103.83

126

Deduct 26 each  
reading

			Grade +1.56		
36+00	110.20	✓	107.25	103.80	
	110.18			104.23	
37+00	110.05	✓	+50 104.32	107.42	103.97
	110.45				104.36
38+00	110.25	✓	+50 104.67	107.58	104.13
	108.95				104.78
39+00	108.76	✓	+450 104.81	107.75	104.30
	109.23				104.70
40+00	109.07	✓	+450 104.80	107.92	104.47
	109.24				105.02
41+00	109.00	✓	+450 105.00	103.08	104.63
	111.42				105.03
42+00	111.27	✓	+450 105.13	103.25	104.80
	110.90				105.17
43+00	110.60	✓	+50 105.14	103.42	104.97
	110.55				105.10
44+00	110.32	✓	+50 104.95	103.58	105.13
	108.57				105.30
45+00	108.26	✓	112.23	103.75	105.30
			105.39		105.50
46+00	112.31	✓		103.92	105.47
	112.54				+1.35
47+00	112.37	✓	104.08	105.43	
					105.70
48+00	112.20	✓			
49+00	112.11	✓	BM 112.23		
			S. Header		
50+00	112.25	✓	Culvt Sta 45		
51+00	112.77	✓			
52+00	112.80	✓			
53+00	110.40	✓			

105.39 at 45+80  
105.88 46+35

am

37

54+00	111.72	✓			
55+00	111.74	✓			
56+00	112.20	✓			
57+00	112.15	✓			
58+00	112.41	✓			State Ditch
59+00	112.62	✓			Gr Sta 62
				111.43	
60+00	112.46	✓			109.52 108.76
					D+DB on Hwy 10.13'
61+00	112.15	✓	1	111.46	109.34
					5.62+00
62+00	111.43	✓	2	111.78	109.50
63+00	112.23	✓	3	111.02	109.75
64+00	112.25	✓	4	112.60	110.00
65+00	112.51	✓	5	112.60	110.40
66+00	112.14	✓	5737	111.96	110.65
67+00	112.83	✓			
68+00	112.27	✓			
69+00	112.14	✓			
70+00	111.75	✓			

	Bottom	Mo. Cord	Drain	Restaked	B.M.	Aug 11	9.87	
128 Stake Ditch						100.15		19
0A+0	99.95	99.95	108.52	94.60	94.60	100.55	100.02	96.28
0A+50	97.85	97.96	99.46		94.64	101.25	100.81	
1A+00	97.75	97.95	99.55		94.68	100.53	100.42	100.09
1A+30	97.05	97.95	99.67		94.71	101.74	101.31	
1A+60	97.85	97.70	99.47		94.74	101.00	100.60	
2A+10	97.46	97.50	99.07		94.77	100.90	100.48	
2A+60	97.73		99.35	Stake Ditch	94.81	100.25	100.41	97.80
3A+10 or 2+00	99.19	99.10	100.27	95.58	94.86	100.90	100.53	
3+00	100.52	99.76	101.60	96.47	94.90	101.05	100.66	
4+00	101.54		102.52		95.00	101.42	101.08	
5+00	100.80		101.75		100.74	100.90	100.55	
6+00	100.45		100.42			101.25	100.88	
7+00	100.83		100.76	9570	100.72	101.22	100.06	99.68
8+00	101.05		100.98		100.72	102.00	98.13	100.01
9+00	100.50		100.07			102.79		
10+00	100.15		99.65			102.45		101.40
						102.95		

100.72  
 THE P.M.  
 Butress  
 Top Step  
 marked  
 with T

130

Stake Ditch

28100	103.76	103.37	
29100	104.30	103.89	
30100	105.85	105.15	
31100	103.84	103.46	
32100	105.45	105.07	99.74
33100	105.25	104.66	
34100	103.17	102.80	
35100	106.20	105.79	
36100	105.59	105.15	
37100	105.25	104.84	
38100	105.64	105.18	
39100	105.20	104.73	
40100	105.05	104.62	
41100	105.65	105.20	
42100	105.00	104.59	
43100	105.88	105.46	
44100	105.15	104.74	
44166	105.35	104.98	101.30

Top 14" tile

Stake Top Tile 1.78

Stake	Top Tile	1.78			
7100	100.70	97.02	95.24	95.26	-.02
6+50	—	96.97	95.19	95.22	-.03
6+30	—	96.94	95.16	95.19	-.03
6+00	100.40	96.93	95.15	95.18	-.03
5+50		97.06	95.28	95.13	+.15
5+00	101.75	96.68	94.90	95.09	-.19
4+50		96.57	94.79	95.05	-.26
4+00	102.51	96.57	94.79	95.01	-.22
3+50		96.46	94.63	94.97	-.34
3+00	101.58	96.51	94.73	94.93	-.20



Stake	Top Tile		
A+00 98.40	94.65		
A1+00 98.04	96.94	El. Top Out	
<del>A2+10</del> A2+10 97.57	96.96	" "	
A2+10 97.10			
<del>3A+10</del> A2+00 98.60	94.95	" Top Tile	
3+00 99.95	95.10		
5+00 100.15	93.91		
6+00 98.86	94.05		
7+00 99.22		94.19 <sup>B M</sup>	
8+00 99.40			
9+00 98.56	<sup>Bot. Drain</sup> 94.58	95.09	

98.76 Grade Stake Barnett

93.83

Top 8" Tile 20'S sta 9+00

Sta	Stake	T. Tile
0A+00	100.03	96.32
1A+00	99.65	98.50
2A+10	99.16	98.62
2A+60	99.27	96.62
2+00	100.28	96.60
3+00	101.58	96.72
4+00	102.92	95.53
5+00	101.73	95.45
6+00	100.42	95.62
6+58	100.72	95.35
7+00	100.77	95.52
8+00	100.99	95.88
9+00	100.00	96.25
10+00	99.53	96.07
11+00	100.06	96.40
12+00	100.84	96.65
13+00	100.45	96.10
14+00	100.32	96.50

Fell  
Out

9445

But Bennett Ditch

100.40 Stake 147 Bennett

BM B. 35

100.72

96.66  
97.50

Top 8" tile 20' SE Sta 9+00  
Low place SE 9+00 - 150'

18"

18"

18"

## 136 Stake Ditch

15+00	10058	97.20	22"	97.75
16+00	10247	96.90	28"	
17+00	10032	97.15	<del>34"</del>	
18+00	10042	97.30	34"	96.40
				96.50
19+00	10062	97.40	36"	96.45
				96.43
20+00	10097	97.15	28"	96.63
21+00	10045	<sup>97.20</sup> <del>97.10</del>	30"	96.81
				96.53
				96.95
22+00	10086	97.10	30"	97.09 +50
				97.00
23+00	10000	98.00	36"	97.03
				97.09 +50
24+00	10193	98.20	36"	97.09
				97.20 +50
25+00	10279	98.60	<del>36"</del>	97.02
				97.14
26+00	10246	98.76	30"	97.21
				97.25
27+00	10300	98.75	30"	97.32
				97.36
28+00	10343	98.55	32"	97.32
				97.48
29+00	10397	99.15	36"	97.55
30+00	10525	99.35	36"	
	10352	99.75		
31+00	<del>10519</del>	<del>99.52</del>	<del>20"</del>	
32+00	10517	99.82	20"	

137

Low place / 50' W St 16+00

Ditch shown 27" TUL dug Sta 26+00  
 9" Top 5" TUL Sta 25+80

138

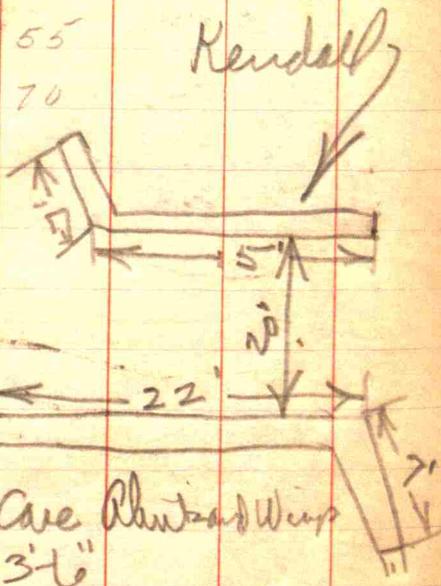
Stake Ditch Top

33+00	104.93	100.05	18"
34+00	102.87	100.20	18"
35+00	105.80	100.30	18"
36+00	105.21	100.51	18"
37+00	104.89	100.60	18"
38+00	105.25	100.60	
39+00	104.80	101.18	
40+00	104.69	101.10	
41+00	105.24	101.25	
42+00	104.16	101.30	
43+00	105.52	101.42	
44+00	104.76	101.73	
44+66	104.97	101.30	Top 14"

139

3/2/2009 9/1

4"	40
5"	55
6"	70
7"	
8"	
10"	
12"	
14"	
16"	
18"	
20"	
24"	900.00
30"	1300.00



5,00

$$\begin{array}{r} 102.36 \\ 102.67 \\ \hline .29 \end{array}$$

$$\begin{array}{r} 105.45 \\ \hline 1.6 \\ \hline 103.95 \end{array}$$

$$\begin{array}{r} 105.00 \\ 100.30 \\ \hline 4.70 \\ 2.00 \\ \hline 2.7 \end{array}$$

148

Indiana Drain Tile Co.

Bristol, Ind.

Colfax Tile Co.

Colfax, Ind.

National Drain Tile Co.

Terre Haute, Ind.

149

Levels Howard

Basement: for Sewer

El. Top tile 4' S of Curb

in front Dr. Barnett

Office 10.26'

El. Bot. Same 10.70

El. Basement

Floor 11.51

Fall 1'4" to

Bottom. Tile at above

point.