

A3 11x17 L R A3 11x17

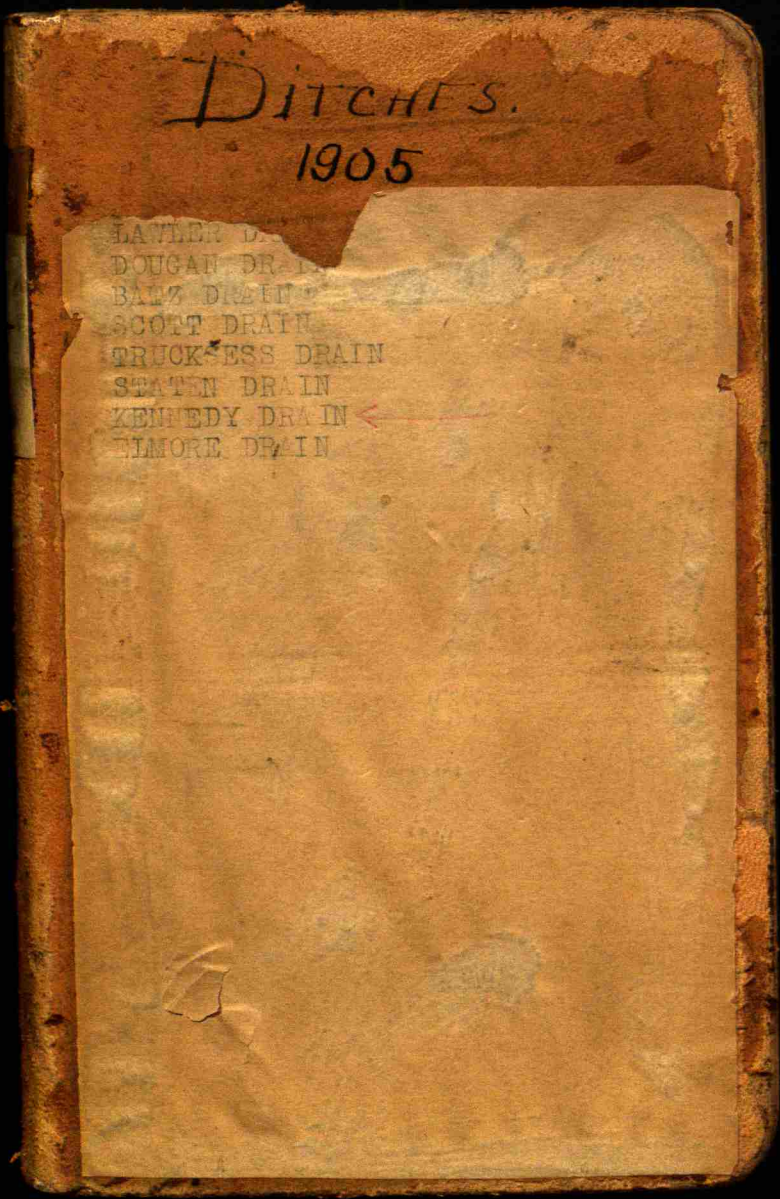
← A3 →

← 11x17 →

A4 LETTER L R A4 LETTER

← A4 →

← LETTER →



DITCHES.
1905

LAVLER DRAIN
DOUGAN DRAIN
BALZ DRAIN
SCOTT DRAIN
TRUCKESS DRAIN
STATEN DRAIN
KENNEDY DRAIN
TIMORE DRAIN

A3
11 x 17

L R

A3

11 x 17

A4

L R

A4

LETTER

A4

KEUFFEL & ESSER CO.

DRAWING MATERIALS

AND

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO.

SAN FRANCISCO.

ST. LOUIS.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.

FOR SINGLE TRACK EXCAVATION.

"Copyright, 1895, by Keuffel & Esser Co."

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
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6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
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31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

1905

Jim Van
Lats
Borrunsbury

0 8.8.7

6 days Profile Bridge Plans
line stakes 21.00
Expenses 4.80
\$ 25.80

A of circle = πR^2
 Vol. of cone = $\frac{Ah}{3}$ $a = \text{area of } \Delta$
 $h = \text{height}$

Name	DP
Lawler & drain	Brown
Longan Math	2
Tricksess	Lincoln
Jackson Keen	Union
Batz	Brown
Miller & Lillon	Middle
Watson Mills	"
Glen	"
Peter Storm	Union
Martin Logan	Brown
John Davis	Eel River
Camp Branch	10
Mud Creek	"
Mike Longan	6
John W. Scott	13
Alan A. Stout	Liberty
Mr. H. Stout	"
Barnard	

A3 11x17 L R A3 11x17

A3

11x17

A4 LETTER L R A4 LETTER

A4

LETTER

Notches

Arm of Notches

Thompson & Shultz

Barnett, John D.

~~Kennedy, William, Vernon P.~~

Garry

Ellis

Corn River

~~John W. French~~

Joe Jones

~~Blanton~~

John D. Sharp

~~Francis Elmore (Martin Christie)~~

~~Blackwell, C. P. Thompson~~

James Phillip, Orin Brown

James Miles

Geo Miles

Cap. Roberts or Slough Notch.

A3 11x17 L R A3 11x17

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1 Lawler Brain

J. M. Lawler	30	acres
Patrick Hogan	10	"
Thomas Shepherd	10	"
Louisa Smith heirs	151	"
Miller Henderson	17	"
Martin Dougan Jr.	10	"

Contract for road lit to Miller Henderson Sept. 2nd 1905 at 23¢ per rod. 40 x 8 60
 Jan 15-1
 .062
 3 02
 9 06
 9 62

Brown Top

assessmt	1.85		1.0321
	.62		30
	.62		1436
	9.35		331
	1.06		151
	.50		1505

Miller Henderson lit at 2.5¢ a rod.

226) 13.30
 11 30
 1 00
 1 82
 1 180

.031
 248
 .031
 19
 217
 31
 921

A3 11x17 L R A3 11x17

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		Martin	
2	Dougay	Brain	
	L B	Lauke	200
	germina	Lauke	350
Aug	22	Batz & Mutha	Ron
"	30	Mike	Logan
Sept	30	Reeving	

	Martin	
	Brown	Sp.

L R

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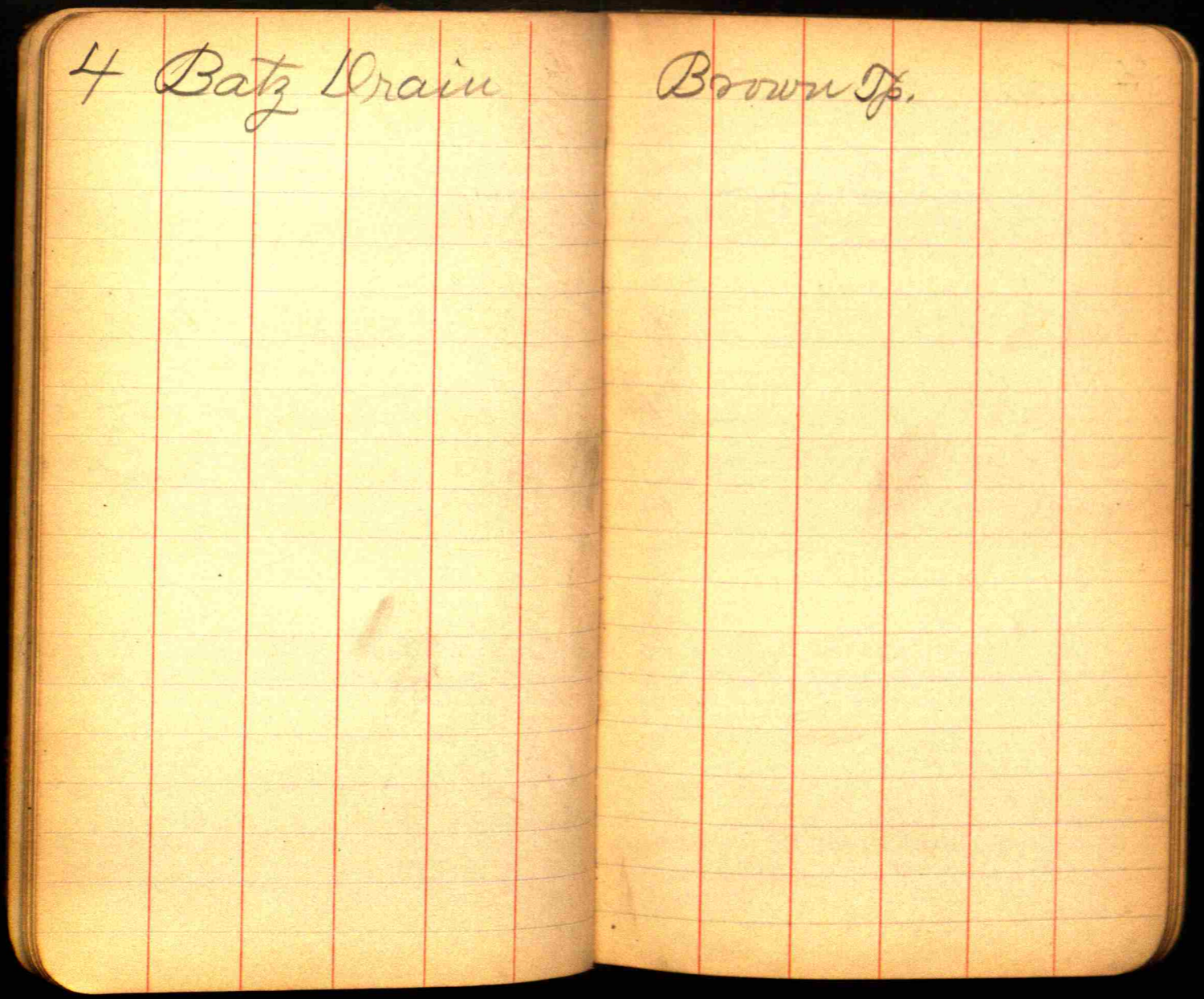
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4 Batz Drain

Brown Is.

A3 11x17 L R A3 11x17

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⑥ Milk Dugan

Drain Brown Tpi

⑥

A3 11x17 L R A3 11x17

← A3 →

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7 John W Scott
Camp Branch

Europe
Franklin Sp.

A3 11x17 L R A3 11x17

A3

11x17

A4 L R A4

A4

LETTER

8 Truckers Union

Lincoln Sp.

Lebetha Tree her	200 825	67+1068+75
Robert Bell	350	58+61+50
Isaac Gray	200	56+58
Lydia Shirley	50	55+50+56
Elvina Hornaday	350	52+55+50
Lincoln Sp.	350	48+50+52
Consolidated Tractor	350	45+56+48+50
Peria Liv. Biz	350	41+50+45
Bransting Corp	200	39+50+44+50
Abraham Hornaday	175 198	175
John Garvey	100	22+39+56
C. A. Surber	50 300	350 18+50+22
M. C. Collins	75	17+25+18+50
J. C. Collins	75	17+17+25
Samuel Luginan	200	15+17
Luginan Bros	200	13+18
Edwin Pratt	50	12+50+13
68.75	5625	1250

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9

J M Collett hrs	25 0	10	112+10
John Klimm	10 0	9 5	10
Sarah Johnson	25 -	8	115+9
Tom Kearby	25 -	8	110+8+15
Mrs Bear?	25 -	8	121+8+10
Wm Thompson	25 -	8	118+11
Anderson Turpin	20 0	6	8
John Steplian	10 0	5	6
Thomas Long	50 0	0	5
	125 0		

10 Camp Branch *debtors*

90-87 1/2	Franklin Pp	250	5.00	1.00
87-85	"	250	10.00	1.30
84-84 1/2	Dave Bodenhamer	50x		
84-84 1/2	"	50x	2.00	.24
84-83	Josiah Elmore	100	2.00	.24
83-82 1/2	Esther Fisher	50x	1.00	.13
82-80	Oscar Clark	100	2.00	.24
81-80	Tom Sumner	150	3.00	.39
80-79	Merritt Gregory	100	2.00	.26
79-78	"	100	2.00	.26
78-77	"	100	2.00	.26
77-76	"	100	2.00	.26
76-75	Wal. Cooper	200	4.00	.52
74-73 1/2	Elyah Harrison	50	1.00	.13
73-70	Jesse K. Stout	250	7.00	.91
70-67	"	300	6.00	.78
67-66 1/2	Dave Bodenhamer	50	1.00	.13

9000

1. Oscar Clark	\$2.00 per hundred	1250 ft.	\$25.00	did status	2.50
2. Jesse K. Stout	\$2.00 per 100	700 ft.	\$14.00		
3. Virgil Campbell	\$2.00	850 ft.	\$17.00		
4. Geo. Reitzel	\$2.00	800 ft.	\$16.00		
5. Geo. Reitzel	\$2.00	1250 ft.	\$25.00		
6. Wal. Cooper	\$2.00	1400 ft.	\$28.00		

184
138
156

800
1250
2050
1111

A3 11x17 L R A3 11x17

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← 11x17 →

A4 LETTER L R A4 LETTER

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11				$\frac{12}{13}$	
66 $\frac{1}{2}$ -65	Dave Bodenhamer	50	x3.00	39	To be done Oct 1.
65-62	" " "	30.0	x6.00	178	Dave Bodenhamer 600 ft-
62-4 $\frac{1}{2}$	Mogga Mahony	125	2.50	35	" " " Esther Fisher 50 "
60 $\frac{1}{2}$ -4 $\frac{1}{2}$	Geo. Nobbs	125	2.50	35	Lewis Borders 550 "
59 $\frac{1}{2}$ -57	" " "	250	5.00	105	Virgil Campbell 750 "
57-53 $\frac{1}{2}$	" " "	350	7.00	191	John Leitman 600 "
53 $\frac{1}{2}$ -4 $\frac{1}{2}$	Lewis Borders	150	x3.00	39	Dave Bodenhamer \$12.00
52-50	" " "	200	x4.00	132	Esther Fisher 1.00
50-49	" " "	100	x2.00	26	L Borders \$11.00
49-48	" " "	100	x2.00	26	JM Campbell \$15.00
48-4 $\frac{1}{2}$	Virgil Campbell	350	x7.00	191	John Leitman \$12.00
44 $\frac{1}{2}$ -40 $\frac{1}{2}$	" " "	400	x8.00	134	
40 $\frac{1}{2}$ -40	Ray & E. Cooper	50	1.00	13	
40-3 $\frac{1}{2}$	Geo. Witzel	350	7.00	191	
36 $\frac{1}{2}$ -32 $\frac{1}{2}$	" " "	400	8.00	104	
34 $\frac{1}{2}$ -4 $\frac{1}{2}$	Clinton Brown	100	2.00	26	
31 $\frac{1}{2}$ -3 $\frac{1}{2}$	Isenhour	50	1.00	13	
31-30 $\frac{1}{2}$	" " "	75	1.50	20	

5.44

A3 11x17 L R A3 11x17

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A4 LETTER L R A4 LETTER

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12

			450	53
38 1/4 - 29 1/2	Daw Bartholomew	75	1.50	.20
24 1/2 - 29	"	50	1.00	.13
29 - 28 1/4	"	75	1.50	.20
28 1/4 - 27	R.P. Walls Wm	125	2.50	.33
27 - 24	Geo. Dobles	300	6.00	.78
24 - 20	"	400	8.00	1.04
20 - 17	John Leitzma	600	12.00	1.56
14 - 10 1/2	Hal Cooper	350	7.00	.91
10 1/2 - 6 1/2	"	400	8.00	1.04
6 1/2 - 2	"	480	9.60	1.27
2 -	Samuel Ludlow	100	2.00	.26
1 - 0	"	100	2.00	.26
				7.88
	Ed. Alexander			

4.52	2.47
5.91	7.73
7.04	2.67
10.17	
<u>31.64</u>	

A3 11x17 L R A3 11x17

A3

11x17

A4 LETTER L R A4 LETTER

A4

LETTER

13 John W. Scott
J. N. Hamilton
Marion Tucker

~~175~~
~~87~~
163 \$1.50 per station.
1025 ft. 5-15¢
500 ft. D-5-1.50 per st

J. N. Hamilton
Geo. Stalen

1200 ft. 13 1/2 - 29 1/2 1.50 per station
175 ft 29 1/2 - 29 " " "

J. N. Hamilton 2925 at
Marion Tucker 500
as assistant

24.00
120 = 33.38 \$ 33.38
120 7.50
9.00

Geo Stalen 1775
500 1025 99.00
1200 1.50
175 1450
1500 29.50
7.20 12 43.50 2225
24 171 150
#36 150 1412.50
87.50 2225
155 2837.50
26250

33.38
268
56.00
Sundry expenses 45.00
22.00
\$ 67.00
29.00 1025
1200
2225
1112
3337 6498
6732
65.50
20.50 1.50
19.00

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← A4 →

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14 4 32

Hamilton	\$ 33.31	36.00
Ducker, cleaning	7.50	9.00
stakes & slaking	9.50	45.00
Staten	2.62	20.50

~~44.00~~

67.00

44.00

A3 11x17 L R A3 11x17

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A4 LETTER L R A4 LETTER

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	Area	Perimeter	Price	Total
15 John St. French	900	173	211	183
0 John St. French	1740	113 1/2	1650 x 0	1640 3274
John Lambert	20 450	50	450 x 16 1/2	21 60 593
L.H. Shockley	180 150	33 1/2	174 x 21	22 3/4 347
Mary Hale	20 150	33 1/2	174 x 22 3/4	24 1/2 347
Katie Groover	80 150	33 1/2	174 x 24 1/2	26 1/4 347
John A. Brush	40 1750	17 3/4	1050 x 26 1/2	36 3/4 2083
Melissa Elder	80 150	480	150 x 36 1/2	38 1/4 297
Union Township	40 23 1/2	40	310 38 1/4	41 1/2 615
			Paid	(203)

L.H. Shockley 2,500 assistance
 " " " Bid 1,500 per stake 385 ft. 16.65

Total \$82.03
 L.H. Shockley 21.65
 Surveyor 15.00
 Contract 62.32
 Survey 20.00
 10.61
 21.67

450
 22 1/2
 67 1/2
 18 1/2
 2.6
 67 1/2
 72 1/2
 16.65
 310
 17 1/2
 4.85
 242 1/2
 7.27 1/2

A3 11x17 L R A3 11x17

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A4 LETTER L R A4 LETTER

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16 Staten Drain.		Colt.		2 ft at bottom.	
0	624 W R R (Big 4)	200	r200	0-2	4.45
	Consolidated Tractor	200	r200	2-4	4.45
	Luna Township	150	r200	4-6	4.45
	W. Staten	350	r300	5 1/2-9	6.67
	Chas Shackley	850	50 r800	9-17	17.78
	Francis W. Groover	1600	100 r1500	17-32	24.34
	John W. French	2000	50 r950	32-41 1/2	15.42
	48 1/2 Chas Shackley	150	150	41 1/2-48	2.43
		550	r550	31.50	8.92
		4790			
				Paid	88.47

L. H. Shackley \$3.00 assistant.
 Oscar Arnold 1.80 per stake
 Frank Groover 1.20 " stake

Survey \$ 20.57
 Res 3.00
 Surveyor 7.51

4.45
 3.60
 2.85

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← A3 →

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A4 LETTER L R A4 LETTER

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← LETTER →

17 R.E. Kennedy

0 to 123 1/2

63
48
15

S.W. Scott \$1,500

49 to 63 bad
per stake; Stake 0 to 49
1700 ft. total 150 + 22 = \$1,172

S.W. Scott \$190
\$190 + 22 = \$212

49 - 74 = 200 ft

S.W. Scott \$190

3000 ft

4900 ft @ \$150 = \$735.00

2500 .. @ \$190 = 475.00

4950 .. @ \$120 = 594.00

total cost \$2150.00

Mary Cox et al See
Roll Plummer 8. 16. 11

A3 11x17 L R A3 11x17

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18 Joseph Jones.

A. B. Beatty 2650 4.75 100 ft.

135 100

Edgar Kennedy \$ 2.25 3.00

W. L. Jones 1.15 3.40

George Hingau 1.50 3.75
2.25 10.15

328 50 302 328

26 50 26

302

A3 11x17 L R A3 11x17

A3

11x17

A4 LETTER L R A4 LETTER

LETTER

19	East of Elmire Drain			John Kilroy to	
280	Eel River Dip		7.93	Complete ditch	
50	Lewis C. Case Open		2.55	by Nov 15	\$40.00
720	E. P. Christie	7.93	3.75	Surgeon Fee	\$14
750	Wm A. Thomas	2.60 3.00 3.77	3.82		95.40
100	Eel River Dip				
1150	Martin Christie	5.75	5.75		
200	Thomas Plummer	1.00	1.25		
900	Richard Plummer	4.50	4.50		
500	John Campbell	2.50	2.50		
500	Stephen Nolan	2.50	2.50		
1250	Lucy Nichols	6.25	6.25		
2750	Wm Schantz	7.30	12.85		
0 to 8920	Tele	13.60	12.85		
8920/100	93 open	5.40			

A3 11x17 L R A3 11x17

← A3 →

← 11x17 →

A4 LETTER L R A4 LETTER

20 Geo. R Blackwell
 140 Vandavia Co
 400 Mary Blackwell
 12 1/2 Callales Bear
 12 1/2 Alice Bear
 27 1/2 John Harrison 36
 7 1/2 Hardin Jackson Modern
 17 1/2 Isaac Rattiff
 2 50 James E. Thompson
 1 50 Liberty Sp
 2 50 Mattle Bell man x 21
 25 George Lyby 75
 4 35 Chas R. Thompson x 400
 800 John Martin x 200
 200 Liberty Sp
 500 Raymond Miles } 1000
 500 Thom. J. Miles }
 435
 110
 75

800	3200
435	1735
250	7465
250	
1735	

James E. Walter
 Thompson & Martin
 1000 ft. 120 per rod
 upland

Arthur Brewer
 \$1.80 per stake 1465 ft

Charles R. Thompson
 Labor & stakes \$2.00

435	140
250	400
685	25
0	275
0	75
0	175
180	180
250	25
9000	200
36000	1465
45000	250
	180
	20000
	250
	45000

A3 11x17 L R A3 11x17

← A3 →

← 11x17 →

A4 LETTER L R A4 LETTER

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64
 400
 Poudray Clermont
 Cox
 Limes 240
 + Ford 150
 Cartier 150
 Heunille

CTIONING.

.9	
8.4	0
9.9	1
11.4	2
12.9	3
14.4	4
15.9	5
17.4	6
18.9	7
20.4	8
21.9	9
23.4	10
24.9	11
26.4	12
27.9	13
29.4	14
30.9	15
32.4	16
33.9	17
35.4	18
36.9	19
38.4	20
39.9	21
41.4	22
42.9	23
44.4	24
45.9	25
47.4	26
48.9	27
50.4	28
51.9	29
53.4	30
54.9	31
56.4	32
57.9	33
59.4	34
60.9	35
62.4	36

A3
11x17

L R

A3
11x17

← A3 →

← 11x17 →

A4
LETTER

L R

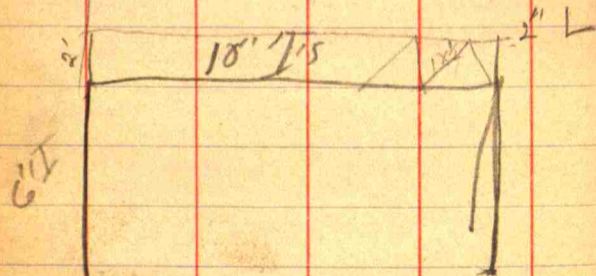
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LETTER

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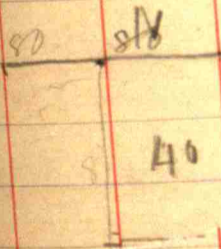
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65

10 lines



N E



FUNCTIONING.

.9	
8.4	0
9.9	1
11.4	2
12.9	3
14.4	4
15.9	5
17.4	6
18.9	7
20.4	8
21.9	9
23.4	10
24.9	11
26.4	12
27.9	13
29.4	14
30.9	15
32.4	16
33.9	17
35.4	18
36.9	19
38.4	20
39.9	21
41.4	22
42.9	23
44.4	24
45.9	25
47.4	26
48.9	27
50.4	28
51.9	29
53.4	30
54.9	31
56.4	32
57.9	33
59.4	34
60.9	35
62.4	36

A3 11x17 L R A3 11x17

← A3 →

← 11x17 →

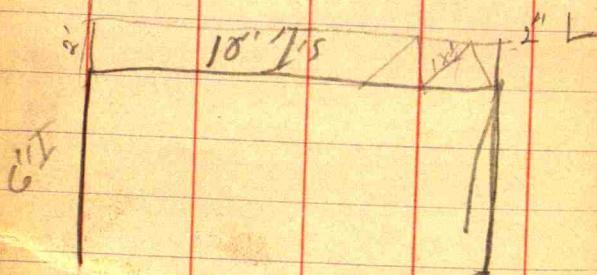
A4 LETTER L R A4 LETTER

← A4 →

← LETTER →

65

10 lines



50 2 1/2

40

10

30'

STONING.

.9	
8.4	0
8.9	1
11.4	2
12.9	3
14.4	4
15.9	5
17.4	6
18.9	7
20.4	8
21.9	9
23.4	10
24.9	11
26.4	12
27.9	13
29.4	14
30.9	15
32.4	16
33.9	17
35.4	18
36.9	19
38.4	20
39.9	21
41.4	22
42.9	23
44.4	24
45.9	25
47.4	26
48.9	27
50.4	28
51.9	29
53.4	30
54.9	31
56.4	32
57.9	33
59.4	34
60.9	35
62.4	36

A3 11x17 L R A3 11x17

← A3 →

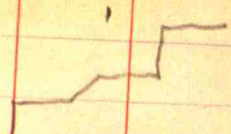
← 11x17 →

A4 LETTER L R A4 LETTER

← A4 →

← LETTER →

71



 1000
 1500
 4000
 96 24
 110
 550
 22 22
 93/1400/15
 93
 470
 465
 9300
 2
 19600

5280 32050 (60)
 31680
 1170
 450
 171
 175
 810
 11 10
 150
 55 500
 110
 1665
 500
 2165
 32
 27
 224
 64
 864

ING.

0
 1
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 32
 33
 34
 35
 36

72

0 S 85° W 400 ft - 1 of them bush on ^{old} levee near fence

1

2

3

4 S 50° W 500 ft -

5

6

7

8

9 S 56° W 100 ft -

10 S 27° W 400

11

12

13

14 S 21° W 100

15 S 24° W 100

16 S 20° E 300

ING.

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A3 11x17 L R A3 11x17

← A3 →

← 11x17 →

A4 LETTER L R A4 LETTER

← A4 →

← LETTER →

73

17

18

19 S 7 1/2 E 800

20

21

22 S 30 E 700

23

24

25

26

27

28

29 S 11 E 100 ft

30 S 21 E 300

31

32

33 S 8 E 100 ft

34 S 6 1/2 E 100

35 S 3 W 100

36 S 4 E 200

37

38 S 8 1/2 W 300

39

40

41 S 10 1/2 800

42 S 4 1/2 E 100 ft

43 S 30 E 100

44 S 30 E 100

45 S 4 1/2 100

46 S 30 E 70

47-72

ING.

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36

A3 11x17 L R A3 11x17

← A3 →

← 11x17 →

A4 LETTER L R A4 LETTER

← A4 →

← LETTER →

74

160	160
$\frac{160}{2}$	160
257 160	140 44
110 64	
<u>100</u>	19.36 rd

from center prec, 25
140.64 rd.

43280	5280
<u>1820</u>	4672
4672	<u>608</u>
3960	
<u>3960</u>	
712	

189.97	200
11.74	200
1.84	1320
9.93	550
	<u>500</u>
3997	2770
993	

8991	1135
35973	2770
31953	
10) 39,660 21	1467
<u>272</u>	
42.38	1508
	<u>1.81</u>
	1508
	12064
	<u>1508</u>
	2,22948

3.54
29.72
<u>1508</u>
5278
6786
<u>1508</u>
92.40888
<u>4200</u>
64.78

NO. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36

79

93	51
46	19
<u>558</u>	459
372	57
4278	<u>469</u>
2113	20.35
<u>12834</u>	4845
4278	1938
0000	<u>19864</u>
8556	92
9039414	17
<u>4275</u>	644
205	92
21390	1564
8556	<u>6256</u>
<u>87699.0</u>	

27/112840 cuyd (4179)
 108
 48
 22
 214
 189
 250
 2430

4179 cuyd

20' South of line.
 35'rd E ~~W~~ W 1/4 sec 9
 Stone
 mit stone 9' W
 L stone 14.3' N
 Stone N.W. Cor. Frank's place
 mit stone 9' N

NG.
 0
 1
 2
 3
 4
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 36

A3 11x17 L R A3 11x17

← A3 →

← 11x17 →

A4 LETTER L R A4 LETTER

← A4 →

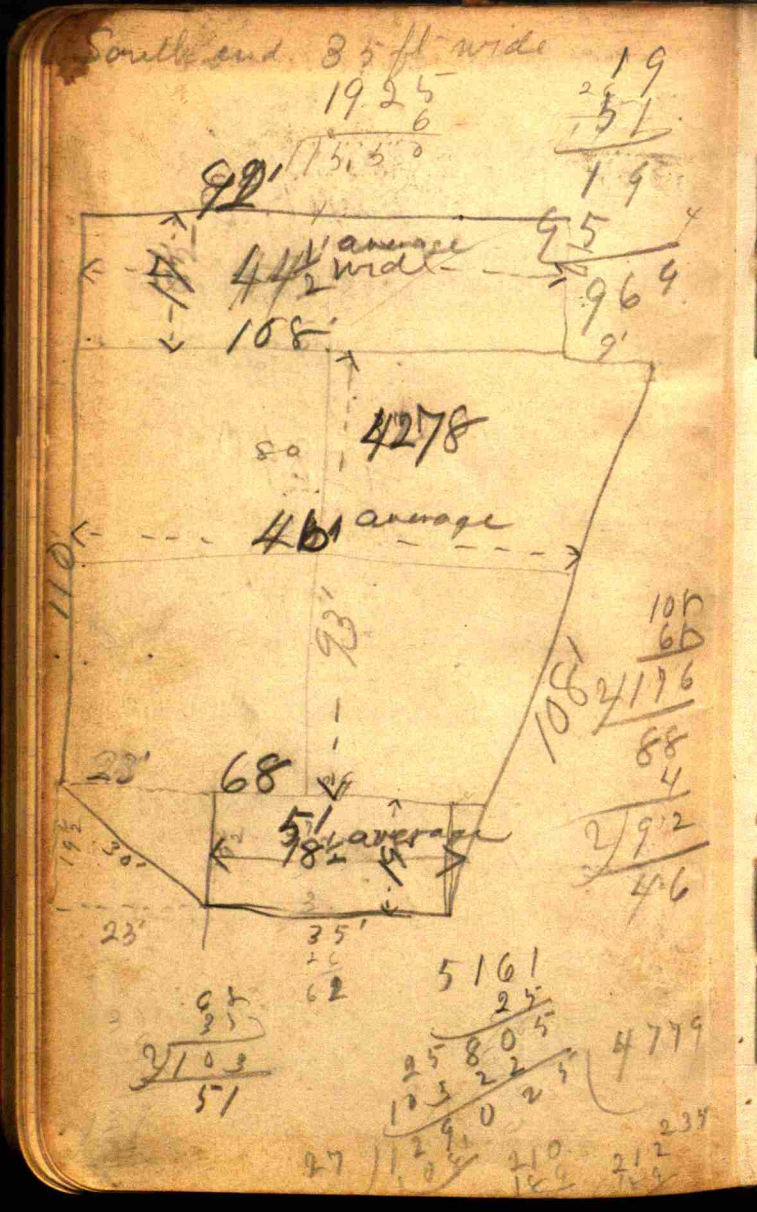
← LETTER →

80			
0	8.87		108.87
1	.10	+ 8.77	117.64
DP	9.01		
2	.56	+ 8.45	126.09
DP	7.20		
3	9.26	- 2.06	124.03
4	6.26	+ 3.00	127.03
5	3.04	+ 1.22	128.25
6	3.76	- .66	127.59
7	.26	+ 5.44	133.03
		5) 639.93	
		128.00	
		108.87	
		21.13 = h	
		68.45	
		100.65	
		80.52	
		101.04	
		120.78	
		137.78.985	

3720
20.13
11160
3720
2440
74883.66

	44.5	X 17	= 756.5 sq ft base
	93	X 40	= 3720 " " base
	18.5	X 37	= 684.5 " " " "
			5161.00 base
	421.8	X h	= 87699.00
	684.5	X de	= 19846.00
			5295.00
	756.5	X 7	= 5295.5
			123
			7.06
			5. 5.04
			6 5.70
			7 .26
			9.27 Northward
0	8.87		.76 0.927
1	.10		DP 6.77 1.76 + 8.51
DP	9.01		.60 DP 6.77
2	.56		2.60 + 6.17
DP	7.20		3.67
3	9.26		Sotht end
4	6.26		

G.
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35
36



185
37

422
23

445
77

1295
555

1895
555

3115
445

4950

189

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1 1/2 TO 1

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.