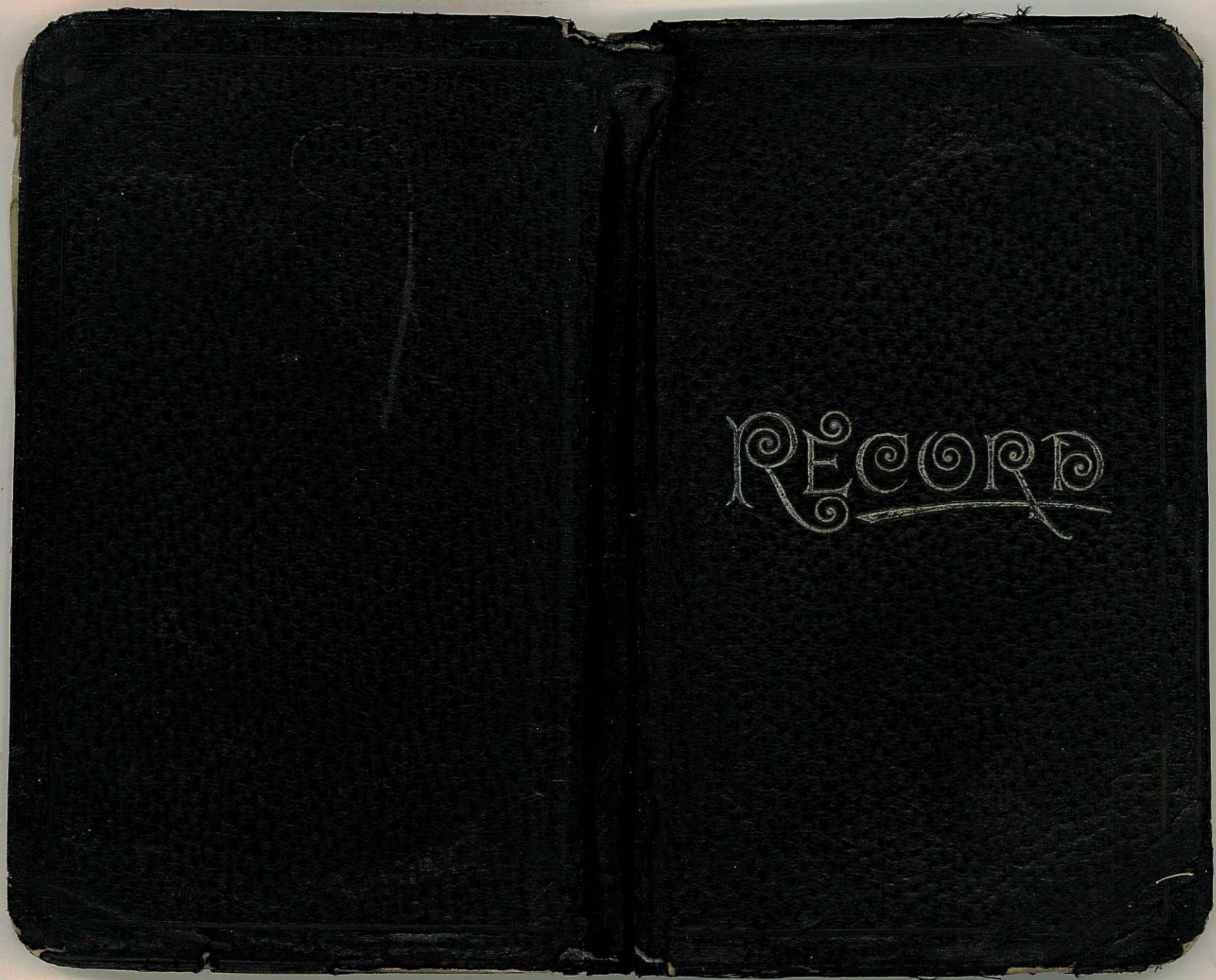
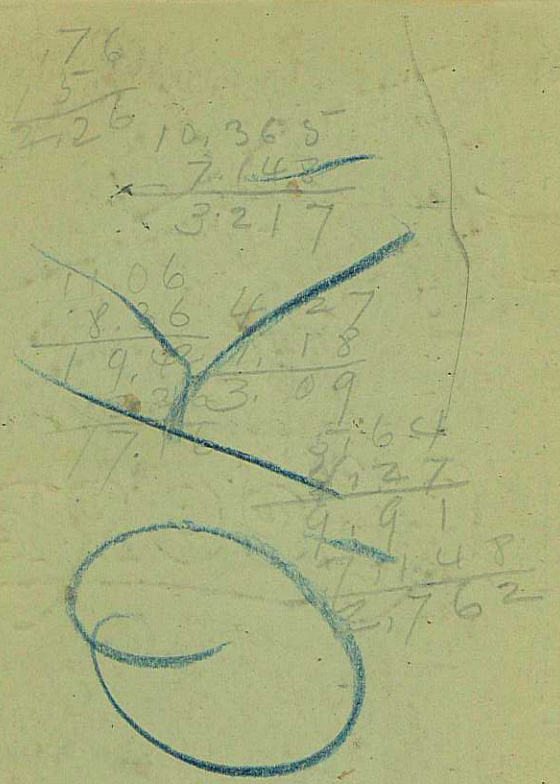

RECORD



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2 Condensed Milk factory.

Sta.	H.I.	Ele.	B.S.	F.S.
0	103.5	100.000	3.5000	
		92.077		11.423
			0.325	
		80.778		11.624
			0.125	
		78.403		2.500
			1.125	
		74.300		5.228

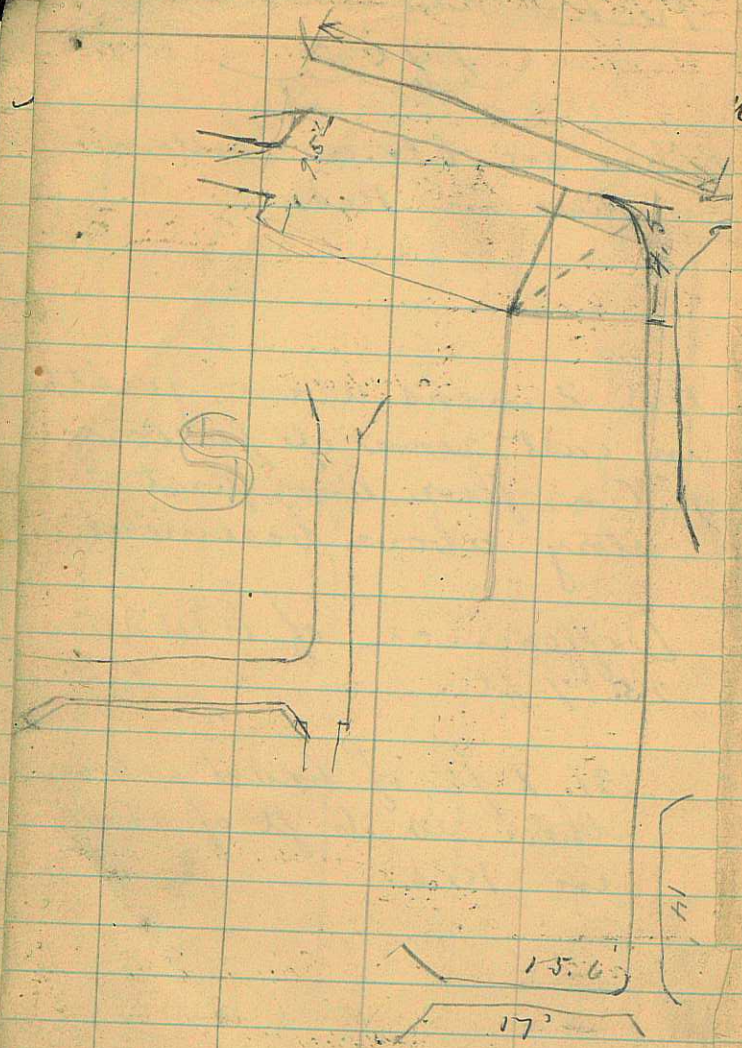
Richmond Nov. 3.3
1903

B.M. on 100 Ele. on bottom of pipe in Res.

F.S. 2 inchs above joists in east room of factory. On floor line, first story above basement.

Difference of Elevation 25.7 ft.

31.7 ft of head when there is 6 ft of H_2O in Res.



Water Main from 3rd & 4th S
On Main St. & ½ Blk E from
Main on 4th S.

Size of Main
pipe is 4"
Cast Fe.

½ Block of Pipe. cross.

Hydrant

Main Street.

17.68'

Valve

33.58 to Center of Main.

3rd.

South St.

Hydrant

Old M.

8

A line of levels of main pipe line for Logan City Qnst. 1904

(up Canyon)

Sta	B.S.	F.S.	H.I.	E
0	2.86		202.8	200
1	3.00			199.86
2	2.78			200.08
3	2.40			200.46
4	~~2.46~~	2.96		199.9 ✓
TP4	5.92		205.82	
5	6.6			199.22
6	7.3			198.52
7	7.5			198.32
8	7.6			198.22
9	7.63			198.19
10	~~7.54~~			
TP		7.54		198.28 ✓
16	8.20		206.48	
11	8.20			198.28
12	7.56			198.92
13	7.65			198.83
14	7.82			198.66
15	8.5			197.98

1/ /1904 9

Remarks.

BM on top of pipe near preasure Box.

Carried from page 8.

1/12/04

Sta.	BS	FS	HI	E.
TP 16		9.40		197.88 ✓
16	5.7		202.78	
17	6.5			196.28
18	7.12			195.66
19	7.60			195.18
20	8.00			194.78
21	8.25			194.53
22	8.58			194.20
23	8.90			193.88
24	8.42			194.36
25	6.50			196.28
26	4.70			198.08
TP 27		4.12		198.66 ✓
27	3.06		201.72	
28	3.30			198.42
29	3.50			198.22
30	3.3			198.42
31	3.28			198.44
32	2.12			199.60
33	1.65	✓		200.07 ✓
34	2.50			199.22

Remarks

About 1½' East of elbow.

Carried

1/12/04

S	BS	FS	HI	E	
5					
50.	8.01			194.32	
51.	7.30			195.05	
52.	6.50			195.83	
53	6.10			196.23	
54	6.10			196.23	
55	6.43			195.90	
56	6.31			196.02	
57	5.12			197.21	
58	3.83			198.50	
59	3.70			198.63	
60	4.66			197.67	
61	6.23			197.10	
62	7.11			195.22	
63	7.21			195.12	
TP 64	~~6.40~~	6.96		195.37	
64	7.36		202.73		
65	7.36			195.37	
66	8.32			194.41	
67	8.7			194.03	

Remarks.

Through big cut near Danishmand's House.

Carried

1/12/04

S	BS	+S	HI	E	
68	8.53			194.20	C
69	9.15			193.58	
70	9.55			193.18	
71	9.36			193.37	
72	9.23			193.50	
73	9.23			193.50	
TP74		9.04		193.69	
74	5.55		199.24		
75	5.30		199.24	193.94	
76	5.30			193.94	
77	4.58			194.66	
78	4.38			194.86	
79	3.93			195.31	
80	3.40			195.84	
81	2.82			196.42	
82	1.71			197.53	
83	1.82			197.42	
84	1.52			197.72	
85	2.60			196.64	
86 TP	~~4.73~~	4.73		194.51	C

Through Big Cut East of Power House.

Carried

1/12/04

S	Bs.	FS.	HI	E	
TP 86		4.73		194.51	
86	0.60		195.11		
87	4.48			190.63	
TP 88	~~4.33~~	9.33		185.78	L
88	1.58		187.36		
89	5.50			181.86	✓
90	8.72			178.64	
TP 91		12.66		174.7	
91	1.32		176.02		
92	5.57			170.45	
TP 93		10.45		165.57	
93	0.80		166.37		
94	6.63			159.74	
TP 95		12.41		153.96	
95	0.92		154.88		
96	7.000			147.88	✓
TP 97		14.2		140.68	
97	.74		141.42		
97.50	9.97			131.45	
TP 98		8.05		133.37	

Correct

Remarks

1/12/04

See below

Ø Ele on upper edge on circular Hole or inlet is 133.37, L at power House.

From top of pipe at Recs. Box to top " " at P. Hom 66.63

Top of Pipe to Cocst of Dam mins 1' fall in Flume 11.08

Top of Pipe at Powerhouse to water in Tailrace

1.75 + 2.56 + 5.90 = 10.21

Total effect. Head = 87.84

Ø On a tie 62 lks E of House

On top of circular Hole in E side of House 1/12/04

Sta	B.S. +	F.S. −	H I	Ele.
	10.3		110.3	
		3.40	For Orson	
		~~1.45~~		
		1.45	Smith.	

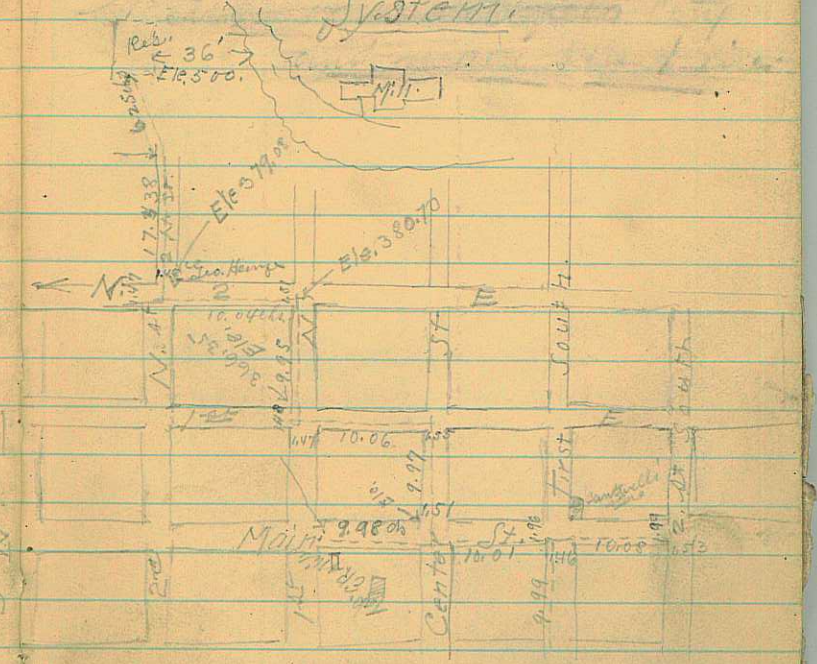
Remarks

Reading near old barn at bottom of hill.

70 ft from B.S.

Reading on H2O at well.

Sketch of Smithfield Water System.



Sta.	+ B.S.	− F.S.	H.I.	Ele.
0	5.03	~~105.03~~	105.03	100
1				
~~2~~	4.00			
5	14.00			
TP	6.01	17.95		
6.50	0.68			
TP		11.36		
X	0.00			

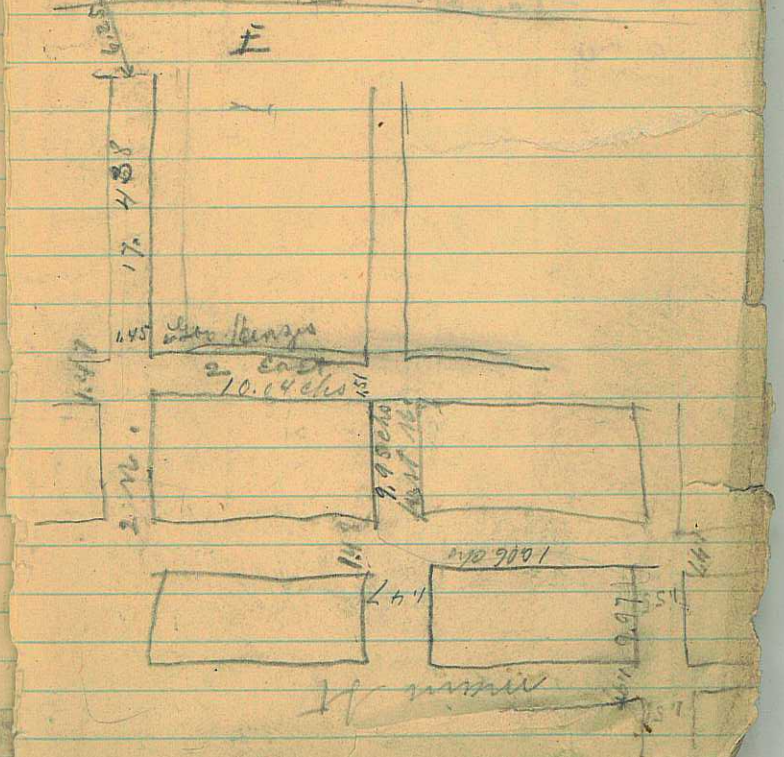
Contours

Ox surface of Mr Pinneas Spring

on brow of hill

On side of creek.

~~On a post on inside~~ of road. one gromiad.


E
17.48
1.45
Stn Hanger
East
10.04 chs
1.47
2.22
1.44
9001
1.46
1.44
9001
1.46
1.44
9001
1.46

Sta.	B.S.	F.S.	H.I.	Elc.
57 0	0.95		200.95	500
TP		11.76		
	0.43			
TP		11.78		
	1.74			
TP		11.78		
	1.72			
TP		12.00		
	0.15			
TP		12.00		
	0.00			
TP		11.90		
	1.31			
TP		11.80		
	0.48			
TP		12.05		
	0.00			
TP		12.00		
	0.73			
TP		11.93		
	0.75			
	8.26	11		
	129.18		379.08	

Remarks

Bm ground under a sage brush 36' N of tree & mile also 136 chs from spring up canyon

6.7 ± 00.6
604.5
96.1

at Geo. Hinds place at milk stand.

Carried

S	B.S.	F.S.	H.I.	Elev.	
TP		10.18		379.08	At Geo. Stanjis Cor.
	4.65		383.73		at cor of 2 east & First N.
TP		3.03		380.70	
	0.57		381.27		
TP		11.67		369.60	
	2.52		272.12		
TP		5.77		366.35	at cor. First & & Fort N
	3.94		370.29		SW cor of BlK
TP		4.40		365.89	at cor at first & & Center
	1.66		367.55		SE cor of BlK
TP		10.76		356.79	
	2.32		359.11		
TP		4.28		354.83	
	0.65				On a nail cor main
TP		1.62			on Cen. SW cor. BlK
	5.50				Head at this point 145.17 ft.
	Carried				On a notch in a tree
	5.50				across st from SE cor BlK
TP		5.50			On a nail cor cen & main SW cor BlK
	1.33				On a mark cor 1st & Main SW cor BlK.
TP		9.98			" " " " " " " "
					On a notch in post cor Main
					& 2nd St. St. SW cor BlK.

(Carried over)

	BS.	FS.	HI	Elev.	
		9.98			On a notch in a post cor Main & 2 S. S.T.
	0.15				On a mark cor 1st S & main SW cor. Blk.
		11.68			going down 1st S. from Main
	2.40				In cen of 1st S and on E side of 1st West
		8.42			

1/27/04

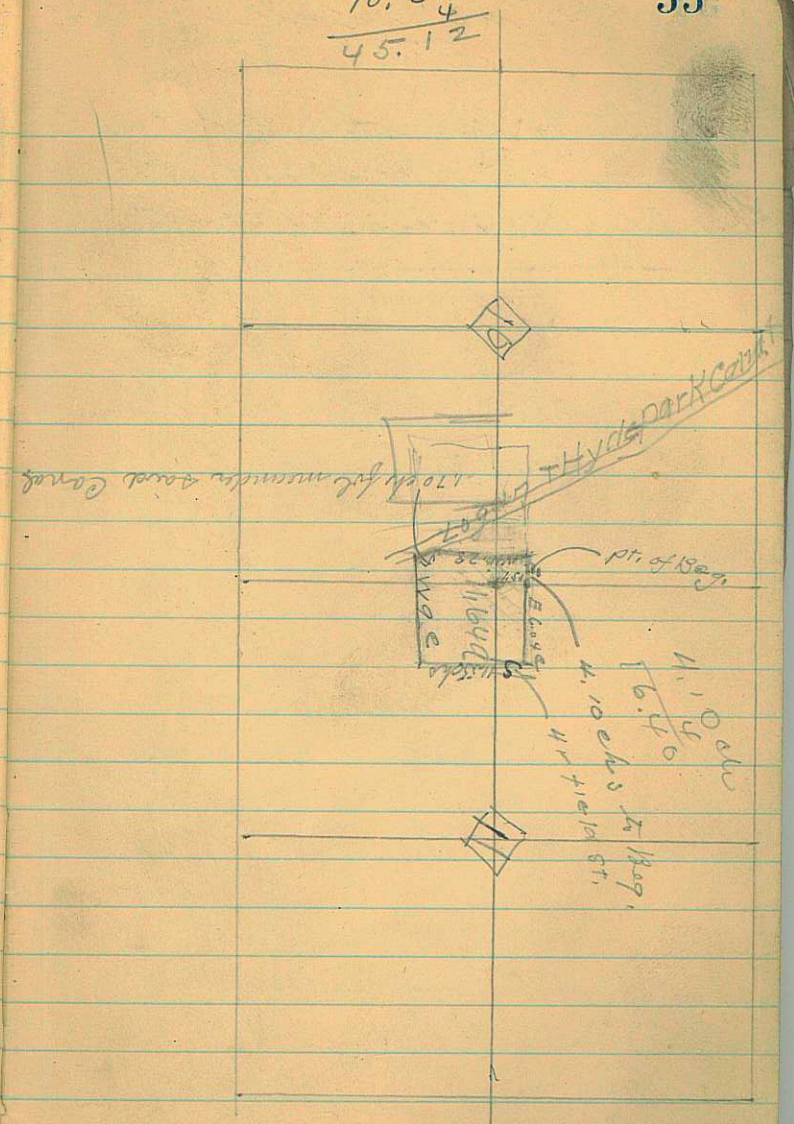
Sta	BS.	FS.	HI	Elc	Ground Readings	alt	Remarks at Millville
0	6.03		106.03	100.	100.0		On East side of street at pt 4.20 chs S of SW cor of that Blk. and in Bottom of ditch.
1		7			5		
2	4.83			101.20	99.5	1.70	
3		~~7.10~~					
4		7.00					
1	7.72			Dof Elc			On West side of street on cor. in bottom of ditch to Center of Blk. runn N. Bottom of ditch is 1.08' higher on N point.
		6.64		1.08			

John Bells
To
Jacob Asheraft,

Begnt pt 25 rds w of NE cor of SE¼ sec 10, S 38½ rds; W 41 rds; N 38 rd to qr sec line; E 41 rds to beg.

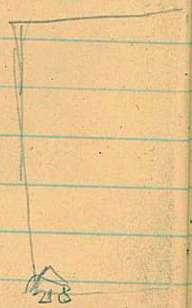
Com. at pt 2½ rds W of ~~NE~~ NE cor of SE¼ sec 10, W 11 rd 3 ft to E bank of Hogan & Hogan park Canal S.E. 46 rds; 42.3 ft to beg.

10, 2s, 4
45. 1 2



X = monolithic sections

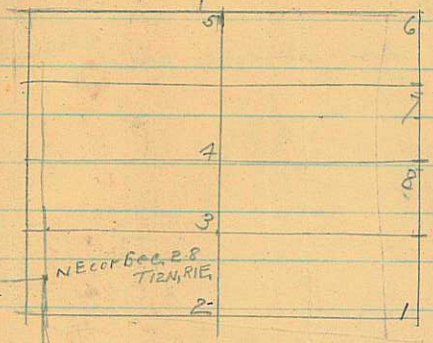
Filter Beds of Philadelphia are made of concrete in proportion 1, 3 & 5



2/29/04

Jeffery, Boudreo, Pros. Sur.

↑ North



Blk 8, Plat "D"
Logan Farm.
Part lot 3.
One. Les. is as fob:—
Beg. at SE cor lot 3, W 60 rds; N 18½ rds; E 60 rds; S 18½ rds to beg. Also:— Beg 18½ rds N of SE cor of lot 3; W 2 76/100 ft; W 60 rds; S 2 76/100 ft; E 60 rds to beg. area 7 a.

2/29/04

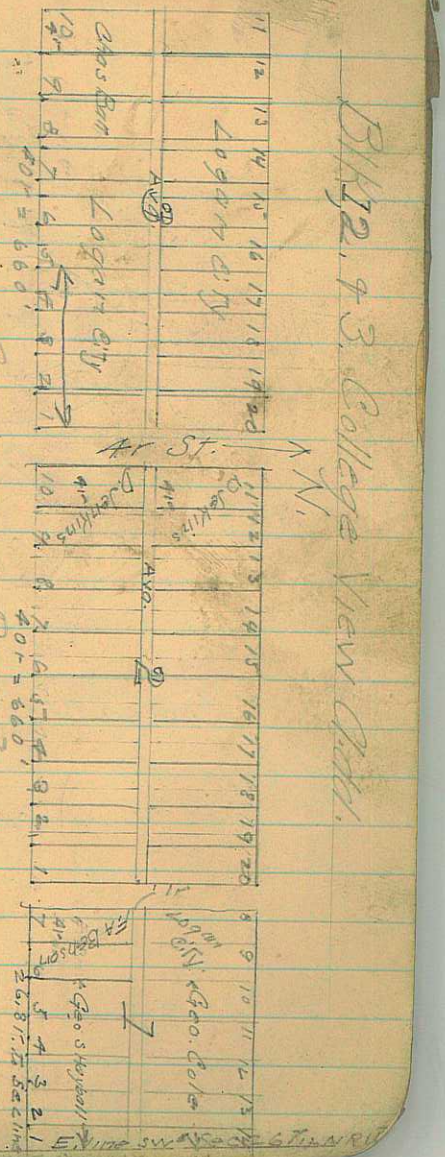
Lots 1, 2, 3 & 4

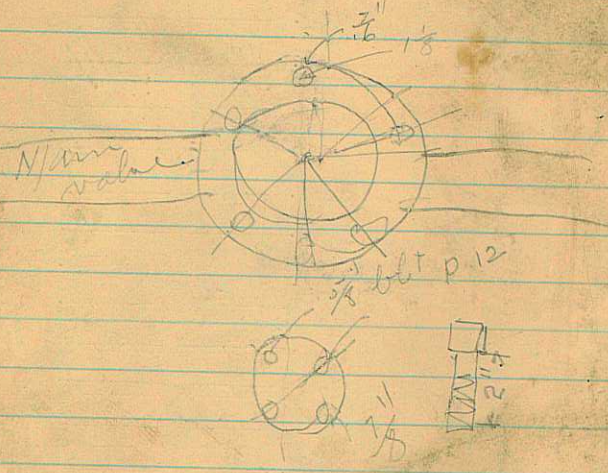
Logan City

To { Wm Goodwin Pro Judge for Cache &
Isaac D Haines Mayor of Logan City.

Title: A Plat.

Blks 2, 3, College View Addn.

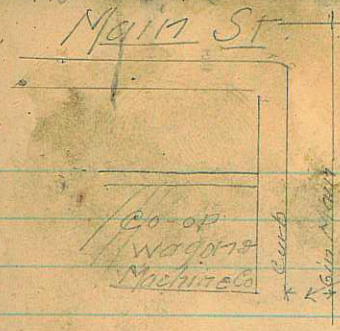


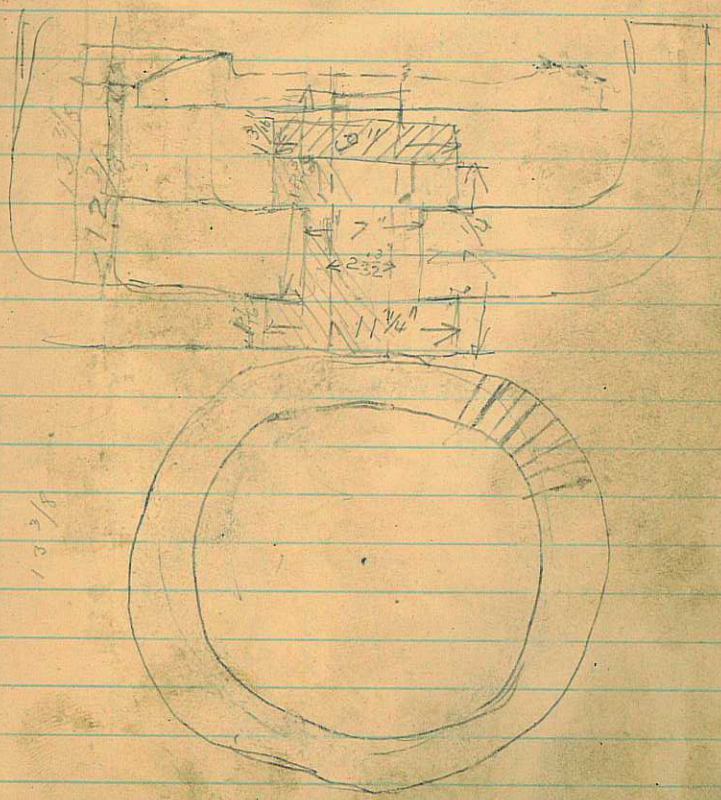


50 large bolts

Main St

Feb 17th 1904.





3/29/04

Sketch Plat of Part of Lot 9.

TWN. PLAT OF SUNNYSIDE PARK

mar. 4/04

S	BS.	FS.	HI.	Ele	
ST					
0	1.96				
0	1.96		101.96	100	
		11.68		90.28	C
	0.96		91.24		C
		11.68		79.56	C
	0.53		80.09		
		11.75		68.34	C
	0.06		68.40		
		11.50		56.90	C
	0.93		57.83		
		11.47		46.36	C
	1.95		48.31		
		6.61			L
		6.61		41.70	C
0	1.1		42.80		
1	3.78			39.02	
2					
3	7.92			34.88	
TP4		9.38		33.42	
4	0.6		34.02		
5	4.55			29.47	
6					

very stormy

Remarks

March 4/04

Ele. ground
On a nail in post
about 6 rds S of Fred Gilgen
gate.

Elevation on stake 42.81

On the ground E of post
On a nail in West
at NE's cor

S	BS.	FS.	HI	Elc.
6	4.88			26.14
7		11.60		22.42
TP 7	1.17		23.59	
8	4.12			19.47
9	6.40			17.19
TP 10		9.08		14.51
		9.08		14.51

Remarks

On post a notch in a post at SE cor of Carlson land.

S.	BS.	~~FS~~	HI	Elev
0		10.365		
		7.148		
		3,217		
1				
~~TP1~~		~~9.66~~		
TP1		10.060		
		7.148		
		2.912		
2				
		8.480		
		7.148		
		1.332		
3				
TP3		7.450		
		7.148		
		.302		
4				
TP4		9.290		
		7.148		
		2.142		
5				
TP5		9.600		
		7.148		
		2.452		
6				
TP6		11.420		
		7.148		
		4.272		
7				

remarks

Cust. 100,000

Sale per. ft. = 1.787

per ch. = 7.148

1.787
7.148

S Bd. F.S. H.I. F.S.

11.06 .76

8.36
9.42 1.50
2.26 2.26
17.16 TP.

0 1.60
2.54
1 4.14

0 .50
2.98
1 4.43
2.98
2 7.46
2.98
3 10.44
0.51
3 2.98
4 3.49
2.98
5 6.47
2.98
6 9.45

0 0.30
1.41
1 1.71
1.84
2 3.55
1.84
3 5.39
1.84
4 7.23
1.84
5 9.07
1.84
6 10.91
1.84
7 12.75

64.7 (5.75
550 2.18
5660
5175
4650
4310

64.7
99.
1637

per ch. = 2.98 ft.

4.50 4.50
3.28 3.73
1.22 .77

5.74
1.71 3.49 1.9
3 2.25 10.88
141 12.78
12.97

80
18.9 12.48 (6.77
6.77 1.84 perch.
98.9 5710
5416
2940
2708

1.78
1.60
10.18

12.20
10.44
1.76

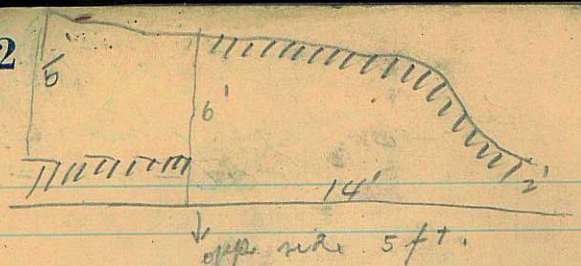
16.5
9
148.5

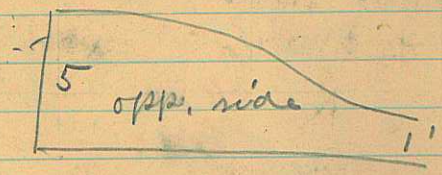
65.55
80
145.56

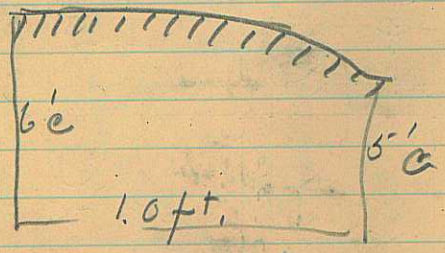
148.5

Road Survey

Proposed survey for
Peter or Swen Carlson
Scale 40 r = 1"







6

7 + 0.6

~~2 lbs~~ 5000.00

25 .34

6 499.66

150 | 20 = 1/6 1

140 7.5

100

7.' 2." clear

③ = 3. 2"

v. = 7.5 per sec

2.96 7.16 11.67

2.62 3.16 2.85

.34 4296 8.82

716

2.148

22.6256

22.63

7.5

5 5 5 1131.5

5.105 16841

.45 169.725

4.68

6.5 5 4.68 4.18 .50

4 | 15.350 6

3.875

31.5

15.5

1575

315

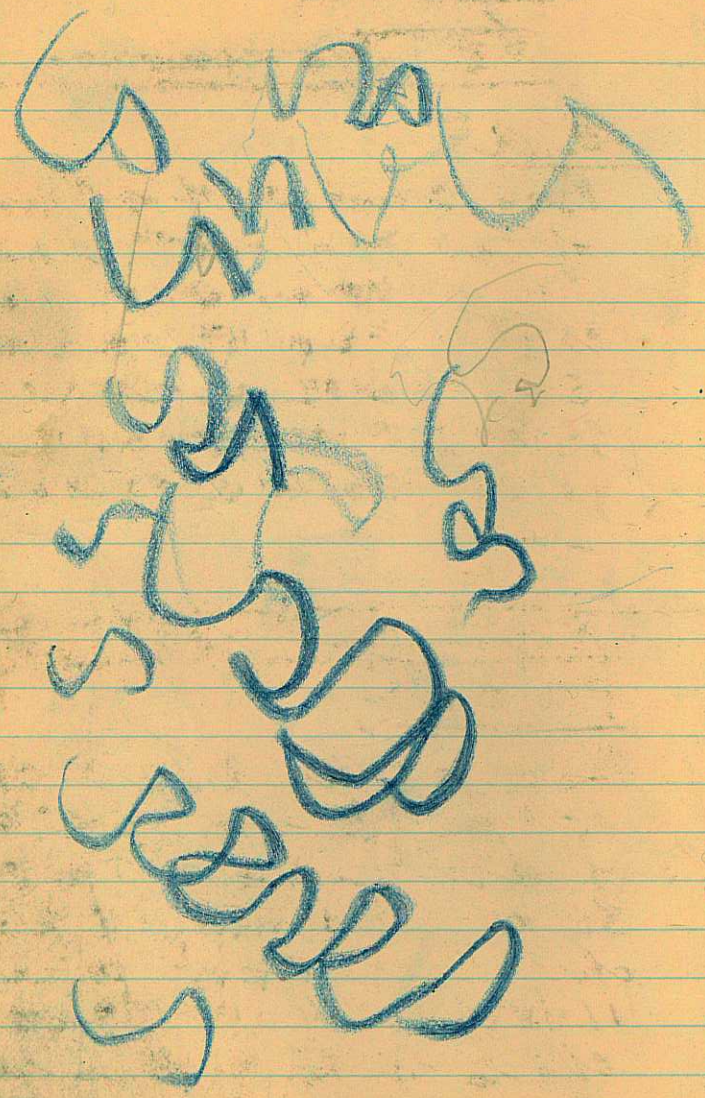
2 | 488.25 | 160

244.12 160

160 1.52

84 1

412



W. H. Apperly.

from E. Hammond

10. a.

Beg. 37 ch N of SE cor of W½ of SW¼ sec. 2. N 88° 30' W 5.22 ch; N 1° 20' E 8.20 chs S 88° 30' E 13.25 chs; S 15° 34' W 8.50 chs N 88° 30' W 5.95 chs to beg.

Rosetta B. Schenk.

92 a.

Beg. at pt 0.37 chs N of SE cor. of W½ of SW¼ sec 2. N 88° 30' W 5.22 chs. S 7.39 chs. E on local line 11.15 chs; N 19° E 7.50 chs to N to S line sec 2. N 0.37 chs; W 7.95 chs to beg.

Providence Canyon
Mar 28, 04

S	BS.	FS	HI.	Elev.
0	2.85		502.85	500
	+	11.67		
	0.15			
		12.00		
	0.06	11.94		
	0.00	11.86		
	0.28	11.88		
	0.25	12.00		
	0.20	11.95		
	1.30	11.93		
4	0.72	11.94		
	0.41	11.95		
	0.89	11.80		
	0.96	7.90		
88		2		
	0.68	11.98		
	0.97	11.86		
	0.73	9.72		
	0.98	11.88		

11.79
1.0
Remarks:

On a maple stump near creek, marked BM 500

+ at a bridge, below steps blue

(At a gate on a rock.)

S	BS	FS	HI	Ele
	0.50	11.73		
	0.57	11.89		
	0.64	11.87		
	1.18	11.09		
	1.73	12.00		
	0.96	11.84		
	1.05	11.62		
	1.15	11.80		
	0.00	11.95		
	0.78			
		1.54		
		733		

88

Remarks

Centre line of pipe

(first section 88 rods)
record " 108 rods
Total → 196

For cottonwood stumps just chopped down, blazed

~~1,000~~ 196
16.5
980
1176
196
3234.0

$S = \frac{10}{2}$
$\frac{2}{100}$

3234. (227
27.0 3234
25 952 085
17480
16170

Log .42 = $\bar{1}$.62325

2 [$\bar{2}$.86917 $\frac{3}{5}$

$\bar{1}$.43487

100 . 12 / 40 . 83 — 10/12

5/12 — 60 (12 / 20 .41

Weir measur

4 1/4"

5

5.347 ∝ Z H $\frac{3}{2}$

5.347 : 60 × 4.83 × .42 $\frac{3}{2}$

Log 5.347 = 0.72811

Log 160 = $\bar{1}$.77815

Log .42 $\frac{3}{2}$ $\bar{1}$.91908

$\bar{1}$.43487

Log 5.347 = 0.72811

Log 160 $\bar{1}$.77815

Log 4.83 .68390

Log $\bar{1}$.43487

.62508

4.217

55) 16
48 3.43
78
64
60
48

.129

16.0) 55
110 .29
500
495



8.

.98
.29
882
196
.2842

.28
8
2.24

5.50
4.49
1.01

5.13
4.49
.64
3
.92

S
O
~~X 80~~
0.80

Grade 6.66 cor. 13.6
4, thousand 7,
thousand 3.97

5.29
11
4.48

7.92
3.97
3.95

7.82
3.97
3.85

S = ½

3.950 | 600
3600 | 6.58
3500
5000

110

80
38

.0065 8

3.85

7.82
2.97
4.85

11.8
.0692
118
5536
692
692
.8 1.6 6 6

4.850 | 700
4200
650000
490
100.0
.6971

.692

.0069
11

.006971
700
4.249.700

.0069
100
.600

2.96
173
4.69

7.410
5.105
12.515

5000.00
7.825
4.69

492.175
7.825

66
29

S	B. R. Ground	F.S Bm	~~F.S.~~	E6.
0	4.07	2.96		4.99.66
+50	4.54			
1	5.34			
1 50	6.02			
2	6.62			
2+50		-7.41		
TP 2+50	1.73			
3	2.40			
3+50	2.78			
4	3.42			
4+50	4.00			
5 00	4.42			
5+50	4.68			
6 +.45	5.12			
	5.20			
7. +.6	5.80			
	5.105			4.92.175
	4.20			
	3.94			
		5.55		
~~7+06~~	3.00	TP		
~~7+50~~	3.50			

April 8th 1904

69

(with 4 15th W.
96.1

B. Bet cor. 34
read on NW cor B 3, 2.96
" " SW cor B 14, 2.62

read in cen cor. 1st W.

{BM. on a stump 10' N of SW cor. BlK 13. (Pt. 3.)
reading at church cor.
" " " cen of center st cor
at NE cor. B12.
at cen. of walk NE cor B12.

N. side of center St.

S	BS.
8+00	3.82
8+50	4.18
9	4.20
9+50	4.87
10	5.06
10+50	5.20
11	5.92
11+50	6.30
12	6.70
12+50	7.25
13	7.80
TP13	0.35
	0.80
	1.48
CO's	1.60
+50	2.10
1	2.40
1+50	3.43
2	4.30
2+50	4.70
3	5.15

Res. ~~work~~ 4.68 4.18
reading at cor 4.665 5.55
4.18
.445

NE
cor. rework reading at cor
13+13 4.665
reading on nail SW cor
BlK13 9.01

work at corss. at 3rd west.

for a nail in post
in cor of block opposite
in cor. of 3rd W. corss.
at SE cor BlK11 on ground

S	BS. Ground R.	FS	
			N. side of center
3+50	5.85		
	X		
6+14	5.27		
6+28	8.12		
6	~~0.66~~	5.66	
TP 6	3.38		
		4.654	
TP	0.69		
	~~7.44~~		
	7.44		
5+49.3		6.775	
TP 5+49.3	1.54		

over

14 36 80
14.5 13
29.5
14.7

width of 4th ~~width~~ st at cen. st 102'
from S.W cor B.11 to E edge of canal = 14.5'. width of canal 29'
on bridge over canal in bottom of canal.
On a nail in tree opposite SW cor. B1R 11
On a nail in locust tree at SW cor. B.11
On a nail in post at NE cor. B1R 10, Pl. a L.C. (" " stone mate ")
On ground in cen. of walk at SW cor B.10
On a nail in picket at SW cor. B1R 10.
With of 5th W st. 97.7
On nail at SW cor B10 at Back sight.

	BS.	F.S.
S		
5+12.2		7.08

4+54.5 +-5717

{On at nail in platform at depot in line with B.9.

S	BS.	FS	~~H~~ HI	Ele
D				493.13
	4.48	also on ground.		
	~~5.50~~	5.50		
TPO	3.394			
6. +2.5	~~8.36~~	8.36		
TP6 +2.5	3.937			
		5.228		
TPO	2.175			
		6.085		
TP	2.347			
	5.80			
		5.137		

S side of center St.

{ 15 stumps on B6

at NW cor. B. 4. near Church
On a nail at NW cor B. 4
{ On ground in cen of walk NE cor B5 + 2cd W. st.
on ground at NE cor B5.
" " " " NW cor B5
at NE cor. B 6 on ground
" " " " " " "
at or on ~~bridge~~ east end of bridge over canal
| ~~East~~ of B 6. 601.8'
| 11' for NW cor B6. to ~~E~~ edge of canal
On ground at NE cor. B. 7.

S	BS.	FS	Elev
TP O 5+98.4	2.205		
		7.50	
TP "	4.60		
		4.915	
TP O 5+13.1	2.033		
		6.61	

On South side of Center St.

~~at~~ on ground at NE cor. B 7.
" " " NW cor. B 7
" " " " " "
" " " NE cor. Blk 8
" " " " " " "
On depot platform east edge
58' from NW cor. B 8 to east edge depot platform.

Cen. of Blk. 8. 4.5 4.4

Tree & Cente
4, 5, 6, 7 + 8. Blk

Sta.	Size of tree	Dis away for cen line	Stumps	Kind of tree	Dist of fence away from cen line	Kind of fence
0	14"	3	0	Box Elder		
0+18	12"	2.8	0	" "		
+36	12	3	0	" "		
	12"	2.2	0	" "		
	12"	2.5	0	" "		
	12"	2.45	0	" "		
	16"	2.0	0	" "	6.95	
	8"	3.50	0	Locust		
	10"	3.90	0	"		
	10"	4.00	0	"		
	10"	4.20	0	"		
	8"	3.30	0	"		
		2.80	0	B.E		
		2.60		"		
	18"	2.80		"		
	12"	4.		"		
	18"	3.7		"		
	18"	3.7		"		
	20"	3.7		"		
	24"	3.6		"		

Blk 4 cor

April 11/04

Remarks-

6.95
5.60
1.35

Difference Between cen. line and parallel line with fence 1.35 ft. Distance from NW cor. Blk 4 to Sedge of 17+0 ditch = 11'
Distance bet. straight line through and NW cor. Blk 4 = 6.95'

84

Blocks 5

5.6

Sta	Size of tree	Dis. of tree away from cen. line	Stumps	Kind of tree
0	12"	X	X	BE
0	20 @1	X	1	X
- 5.0	10"	2" ✓		BE
- 50	13"	2.4 ✓		BE
+ ~~10~~	13"	0.9' ✓		BE
2	24"	1.4		BE
2+50	24"	1.2 ✓		"
2+70	20"	2.3 ✓		"
3	13"	1.9 ✓		"
3+40	8"	1.8 ✓		"
4+60	~~18~~"	2.2 ✓		"
4+70	8"	2.8		"
4+80	10"	2.3		"
6+2.5				

85

Block 5 N side

1.37
5.60

Dis of fence away from trng Cen Line	Tree or stump	Remarks
		This tree is at intersection cor. BlK 5.
6.97	Log	NE cor. BlK 5. Difference bet par. line of BlK & Cen. L. 1.37
8.15		Diff. bet par. Line of BlK & through cen line 2.59

5.60
2.59

Block 6.

Sta	Size of tree	Dis. of tree away from true center line	Stumps	Kind of tree
0	12"	3.80	✓	BE
	18"	3.45	✓	BE
	18"	4.00	✓	BE
	18"	3.7	✓	"
	18	3.8	✓	"
	14"	4.00	✓	"
	18"	3.80	✓	Locust
	6"	4.50	✓	"
	24"	4.90	✓	BE
	14"	4.20	✓	Locust
	16"	4.30	✓	"
	10"	4.80	✓	BE
	14"	4.90	✓	BE
	30"	3.80	✓	BE"
	13"	4.70	✓	Locust
	20"	4.1	✓	BE
	13"	4.70	✓	Locust
	13"	3.80	✓	"
	14"	3.9	✓	"
	18"	4.00	✓	"

Block 6. N side

7.63

April 11

Dis of fence & drain away from or along center line of tree	Remarks
7.63	at NE cor. Blk 6.

Block 6 con

April 1

Sta	Size of tree	Dis. of tree away from Long Cen. Line	Stump	Kind of tree	Dis of fence away from Long Cen. Line	Dry or Green	Remarks
~~2~~	6"	4.9		Locust	~~7.6~~		
3	5"	4.6		"	7.3		
	6"	5.6		"			
	10	5.6		"			
	14"	4.9		"			
	13"	5.9		"			
	12"	5.4		"			
	12"	5.9		"			
	10"	5.0		"			
	12"	3.9		BF			
	10"	4.6		"			
	14"	4.5		"			
6+2					7.94		At NW cor. B.6

Block 7

Sta.	Size of tree	Dist. of tree away from long center line	Stump	Kind of tree	Dist. of fence away from long center line	Dry or Green	Remarks
					7.88		At NE cor. B. 7
	14"	3.8'		Poplar			
	18"	3.8		"			
	20"	3.9		"			
	16"	3.9		"			
	13"	4.4		"			
	20"	4.2		"			
	13"	3.4		BE			
	12"	6.4		"	~~6.6~~		
3	12"	5.7		"	6.6		
	12"	5.00		"			
	12"	5.5		"			
	13"	4.4		"			
	14"	5.0		"			
	7	5.0		Poplar			
	14"	5.8		Locust			
	18"	5.7		"			
	16"	5.5		BE			
	12"	5.6		"			
6+98					4.6		At NW cor. B. 7.

Block 7

7.88

April 11/84

Block 8

Sta	Size of tree	Dis. of tree away from long. con. line.	Stumps	Kind of tree	Dis. of tree away from long. con. line.	Dec. or Orch.	Remarks.
	20"				4.42		at NE cor B.8.
	10"	5.30		Locust			
	12"	5.1		BE			
	13"	4.9		BE			
	10"	5.6		Locust			
	12"	5.2		BE			
	10"	5.2		Locust			
	12	5.3		BE			
	8"	5.3		Locust			
	12	5.6		BE			
	10"	5.1		Locust			
	12"	4.7					
	18"	3.4		BE			
	18"	3.8		BE			
	14"	3.5		BE			
	14"	3.06		BE			
	16"	3.2		BE			
	14"	3.7		Poplar			
	14	4.0		"			
	14"	3.0		"			
	14"	3.1		"			
	18"	3.5		"			

Block 8.

April 11

Lts	Size of tree	Dis of tree away from cent line	Stumps	Kind of tree
	14	3.30		Popular
	" 31	3.50		"
4+?				

Block 8 Con.

April 11

Dis of fence away from cent line	Lay on Line
5,6	

Remarks

at NW cor. B1 R8.

Survey for Ed. Lewis.

Part of Lot 8. B. 7 Pl a
Logan City,

Com. at NW. cor. said lot,
& 4½ rds. S 12½ rds.
W 4½ rds.; N 12½ rds
to beg.

April 12. /04

Block 13. S. side

Sta	Size of tree	Dis. of tree away from long cen. line	Kind of tree
0	14"	3.2	Locust
0	18	3.25	"
	18"	3.7	"
	20"	3.2	BE
	24"	3.3	Locust
	18"	3.8	"
	~~10~~ 6'	4.4	"
	10"	6.5	Popular
	8"	6.3	"
	10"	6.2	"
	8"	6.7	"
	10"	6.4	"
	8"	6.5	"
	10"	6.3	"
	6"	6.5	"
	8"	6.4	"
	10"	6.1	"
	8"	6.2	"
	9"	6.3	"
	12"	6.1	"

Block 13, S. side.

April 12,

Dis of fence away from long cen line	Dep of Grave	Remarks
5.6		at BE cor. B1K13

S. side of Blk. 13. Pl. a.

Sta	Size of Tree	Dis of tree away from long con line	Kind of tree
	8"	6.2 ✓	Popular
	20"	5.4 ✓	BE
	20"	5.3 ✓	"
	26"	4.9 ✓	"
	12"	4.8 ✓	"
	12"	5.2 ✓	BE
	16"	4.7 ✓	"
	12"	4.9	"
	14"	5.0	Locust
6+4.5			

Block 13. Con

April 12

Dis of fence away from long con line	Dirg or Fence	Remarks
5.58		Good condition at sw cor 13.13

N. side of BLK. 12

Sta	Size of tree	Dis of tree away from long cen. line	Kind of tree	Dis of power away from long cen. line	Leaning or Upright
0		X	X	5.6	
	12"	6.0	BE		
	12"	6.4	Popular		
	12"	6.0	"		
	10"	6.1	"		
	14"	5.9	"		
	26"	6.5	"		
	14"	6.6	"		
	12"	6.7	"		
	18"	6.9	"		
	13"	7.4	BE		
	12	5.7	Locust		
	14"	5.9	BE		
	13"	5.5	Locust		
	12"	6.0	BE		
	12"	6.0	Locust		
	16"	5.5	BE		
	10"	5.8	Locust		
	14"	5.9	BE		
	12"	5.8	Locust		
	14"	5.6	BE		

BLK 12

April 12

Remarks.

Lat SE cor. BLK 12 good condition

BLK 12 Cor

Sta	Size of tree	Dis. of tree away from long Cen. line		Kind of tree
	14"	5.9		Locust
	14"	5.5	V	BE
	14"	5.6		Locust
	14"	5.4		"
13				

BLK 11. Pla.

0	X	X		X
	14"	4.9	V	Populus
	12"	5.2	V	"
	12"	5.2	V	"
	8"	5.0	V	Locust
	14"	4.9	V	Populus
	14"	4.2	V	"
	12"	4.6		"
	12"	4.7		"
	8"	4.7	V	Locust
	10"	4.7		"
	12	4.3	V	"

BLK 12 Cor

April 12.

Dis of fence away from long cen. Line	Long on line	Remark
4.80		at SW cor. B12

BLK 11 Pl. a.

5.1		at SE cor. B11

BLK 11 Cor

No	Size of tree	Dis. of tree away from long. Cen. line.	Kind of tree	Dis. of fence away from long. cen. line	Left or Right	Remarks
	12"	4.4	Locust			
	8"	4.1	"			
	8"	4.2	"			
	12"	4.00	"			
	10"	5.5	~~Pop~~ Poplar			
	12	5.3	Poplar			
	8"	5.9	"			
	10"	4.7	Locust			
	12	5.6	"			
	14"	4.8	Poplar			
	13"	4.6	"			
	14"	5.3	"			
	13"	5.7	"			
	12"	4.5	"			
	12"	5.7	"			
6		X		5.38		at SW cor. B. 11

BLK 11. Cor

April 12

Block 10.

Sta	Size of Tree	Dis of Tree away from long Cen line	Kind of Tree
	12"		BE
	12"	~~stump 3.93~~ stump	"
	10"	3.92	"
	10"	3.9	"
	8"	3.9	Poplar
	8"	4.4	"
3			
	13	4.2	"
	16"	4.0	"
	18"	4.1	"
	16"	4.0	"
	12"	4.9	BE
	20"	4.0	"
	12"	3.7	Poplar
	18"	4.4	"
	13"	4.2	"
	18"	4.00	"
	18"	4.00	"
3+993	12"	4.00	"

Blk. 10 Pl. a

Dis of fence away from long Cen line	Dry or Green	Remarks
5.28		at SE cor B10
		at intersection SE cor. B10
7.7		
7.294		

Blk 9

Sta	Size of tree	Dis of tree away from Cen. line	Kind of tree
0			
	12 12"	4.2	BE
	18 18"	4.2	"
	18 18"	4.2	"
	18 18"	4.0	"
	18 18"	3.9	"
	18 20"	3.6	"
	20 18"	4.1	"
	18 14"	4.0	"
	18"	3.6	"
	14"	4.3	"
	16"	5.6	"
	16"	4.6	BE
	16"	3.9	BE
	12"	5.5	Pine
	13"	5.4	"
	10"	5.6	"
	12"	5.5	"
	14"	5.5	"
	12	5.4	"

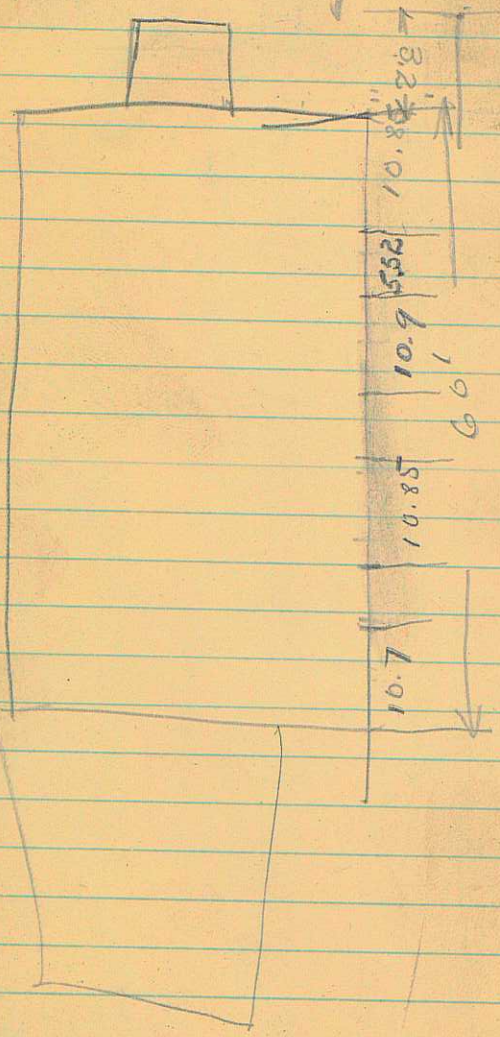
Blk 9 S. side

Dis of fence away from Cen. long line	Long or Trans	Remarks
6.165		at SE cor Bg.
		at intersection
		SE cor Blk 9

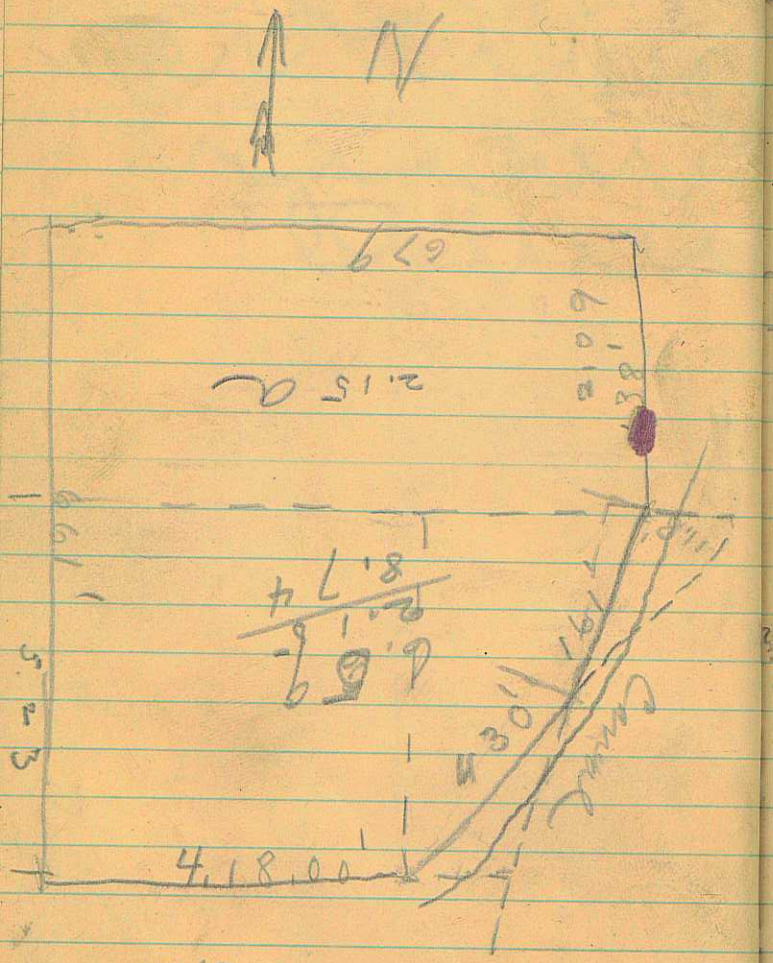
Block 9 con

Sta	Size of tree	Dis of tree away from Long Line	Kind of tree	Dis of fence away from Long Cen. Line	Dep or Grave	Remarks
	13"	5.2 ✓	Populus			
	12"	5.4 ✓	"			
	12"	5.2 ✓	"			
	14"	5.3	"			
	12	5.2	"			
4+54.4				5.60		at SW cor. B. 9

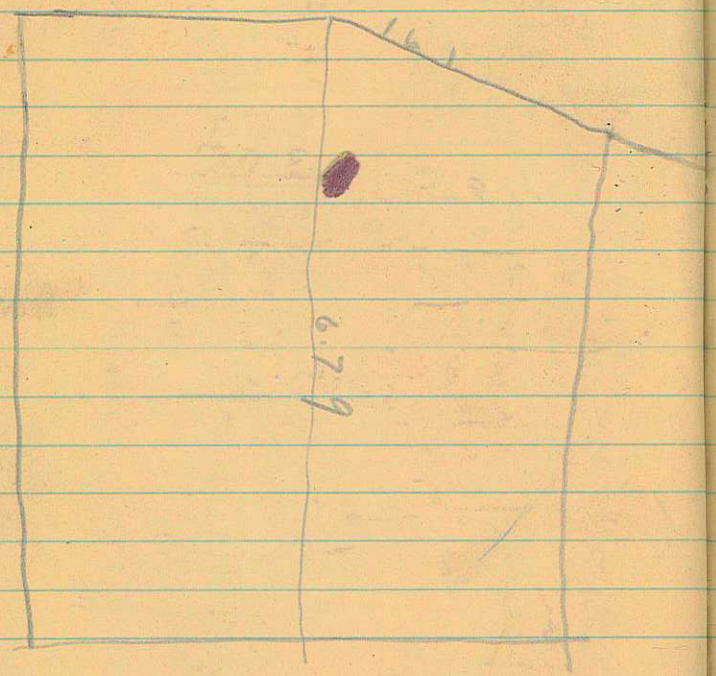
S1



Surv. for R. Andrews



2.15
3.30
5.45



3.30

$a = b \times w$

$a = bw$

$bw = a$

$w = \frac{a}{b}$

6.79,00
80
599.00
5127.8
639 66
5-84 9.831 93
550 201.2
5.28
220
198

6.79
6.89
40

10.3
3.2
206
309
3.2.96

3.30 | 10.3
309 | 3.2
240
206
66
3.2
132
66
9831 93
201.2

3.309.83
2949 3.3
66 30 10

3.3
198
198
217.8

679
130
549

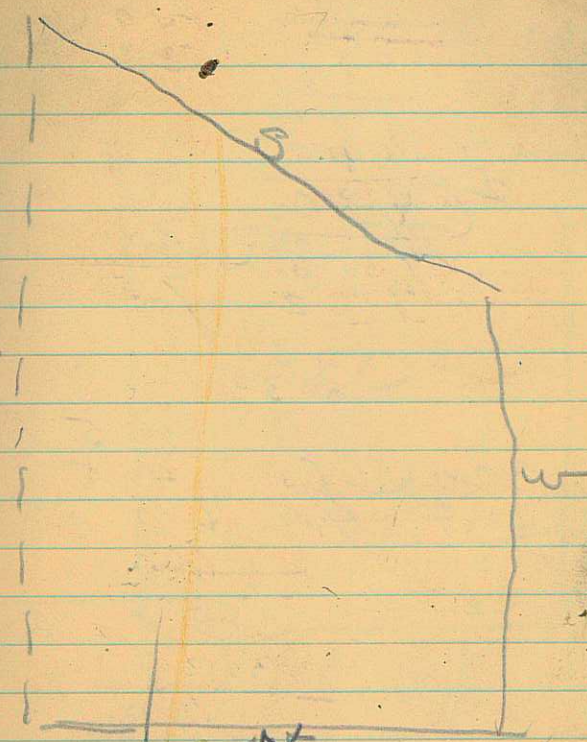
549 | 66
528 | 8.3
210
198
120

10.30
8.3
3090
8240
85.490

103
8.3
309
824
85.49

9.3
3.30 | 9.30
2790 | 3.5
5100
66
3.5
330
198
231.0

320 25



$\sqrt{N}$

$\frac{lw}{2} N = a$

$\left(\frac{l+w}{2}\right) n = a$

$a = \left(\frac{b+w}{2}\right) + N$

80
7
560
12
572
448
2 990
495 66
462 7.5
330
330

7.5
320 66 4.8
264 4.8 600
560 300
528
32 3600
3.27
33

572 66
528 8.66
448
396
520
440
80

31.68 12 7.92
24 28 31.68
76

Ecke 3.20. ft

10 à 12
96 = 8.3

100 12
96 8.33
40

l a w

W

$\frac{l+w}{2} \times n = a$

300 8.66
2598.039
8020
7794

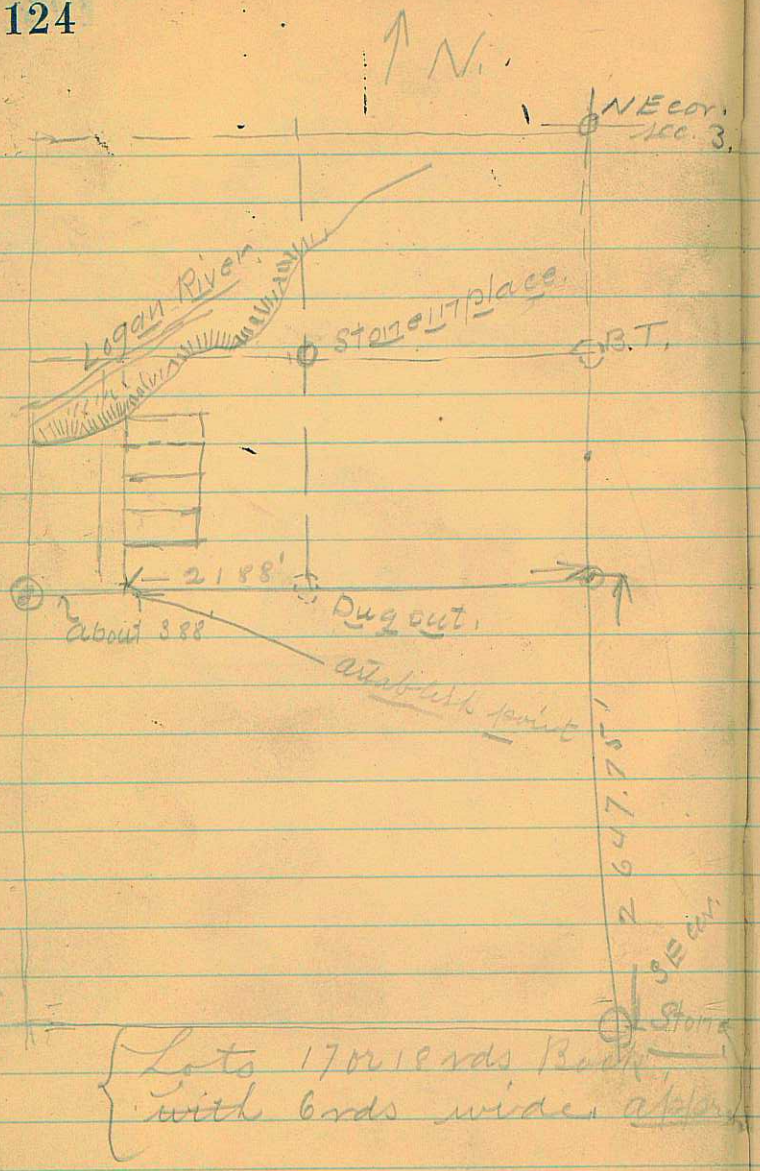
8.66
.03
7794
25980
33.7

~~8.2~~

8.2
12.10
.18
13.4 2.
4.18
2.06
~~5.8~~
39.10

~~38.22~~
2.21
36.1

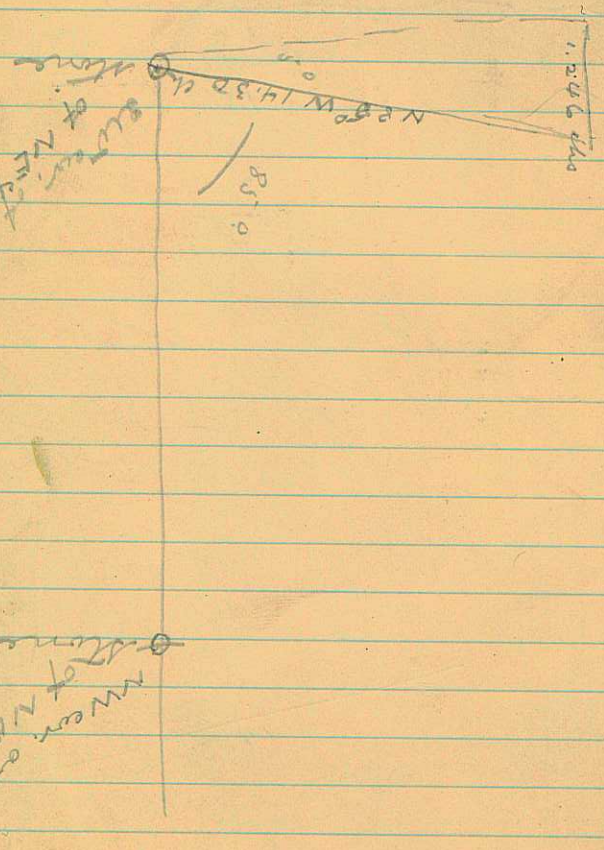
36 3
12
~~30=12~~
42 125



Survey for G.W. Kather
on Providence
Bench 4/22/04

Mag. var.
18° 10' NE





.0262
14.3
786
1048
262
.37466

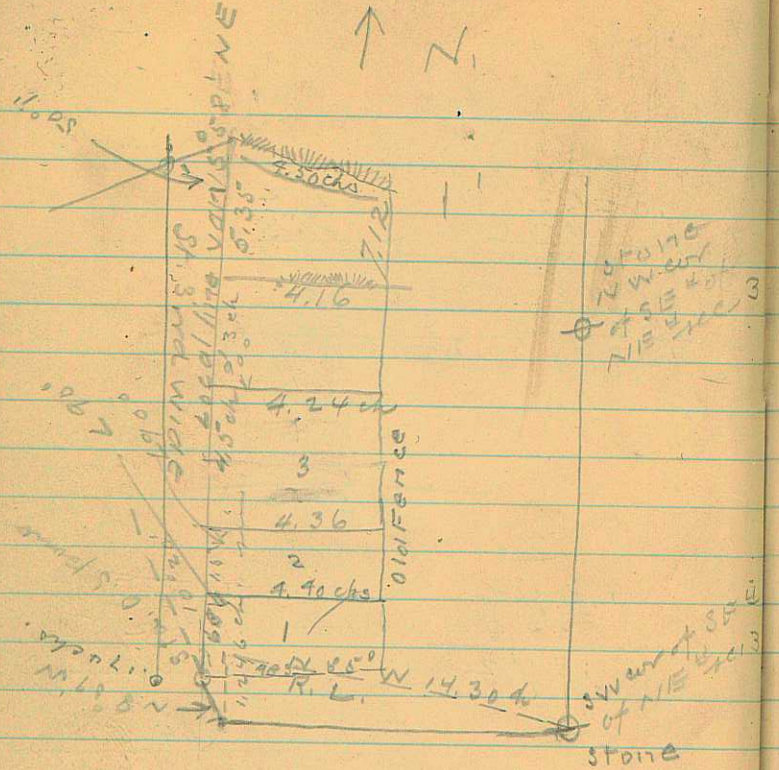
.0872
14.3
2616
3488
872
1.24696

180
95
85

6.30

.1246
.374
.872

~~11.32~~
.1132
6.3
.1132
14.3
3396
4528
1132
1.61876
374
1.2494





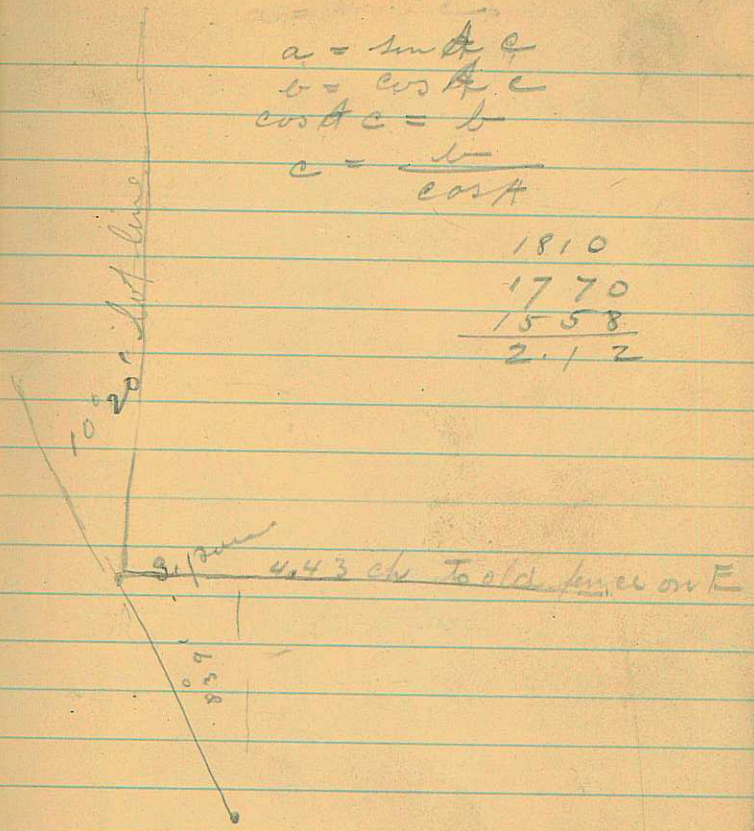
$a = \sin A \cdot c$

$b = \cos A \cdot c$

$\cos A \cdot c = b$

$c = \frac{b}{\cos A}$

1810
1770
1558
2.12



Nestler

E½ of SW¼ of NE¼ sec 14. Tp. 9 N. R. 1 W.

7460
6.615

7,460
6.410
1.05
7

RR.
Bm. 5.32

1.15
.76
805
.86 2

491.40
86
490.54

492.16
490.54
1.62

491.40
0.76
86
1.62

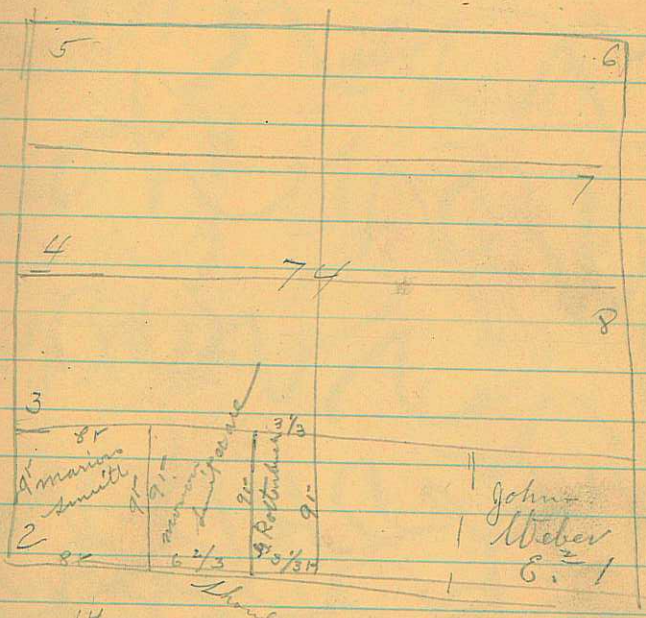
5.32
1.62
6.94

Beg. at a pt 11 1/3 rds E of the SW cor. of lot 2 in Blk 74. Pc "A" Logan City. E. 3 1/3 rds. N 9 rds to N. bdy of lot 2. W 3 1/3 rds. S 9 rds to place of beg.

Blk 74. P.C. A. Logan City

Lots 1 & 2.

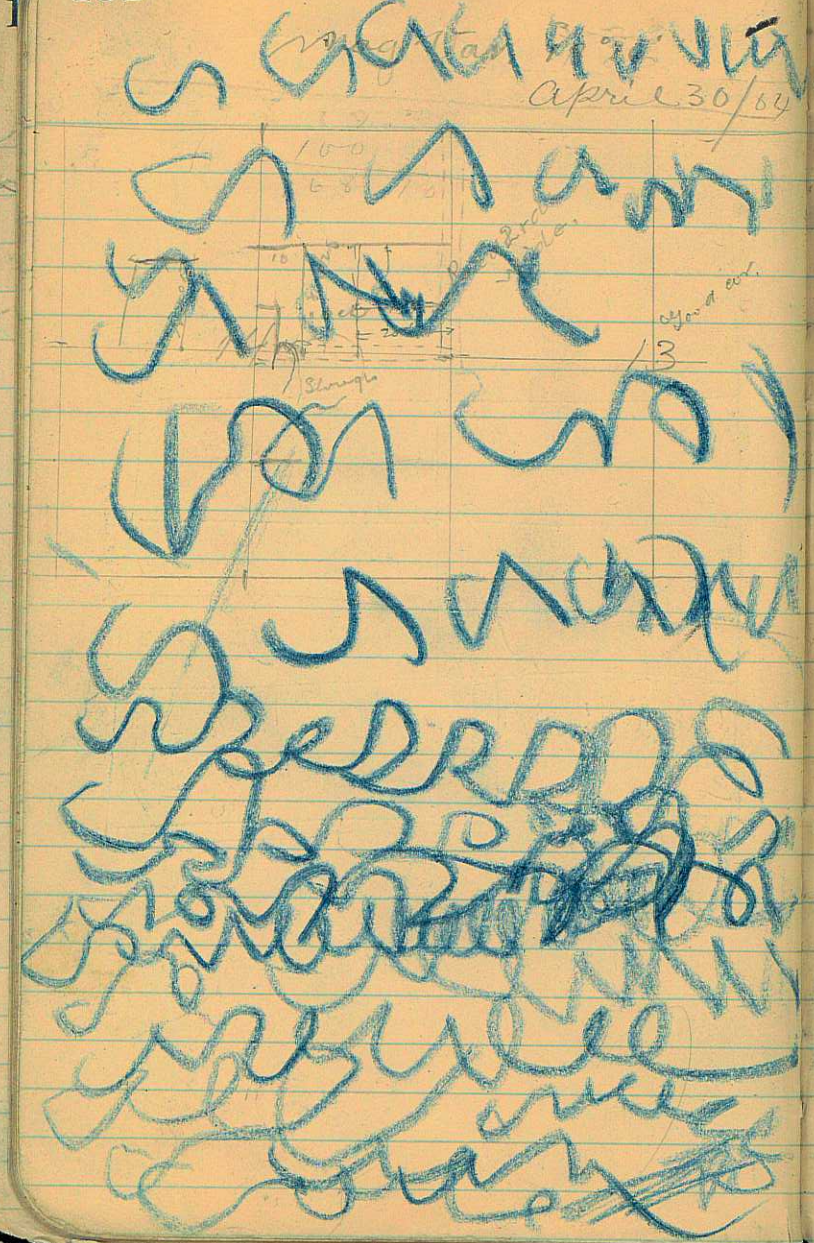
N.

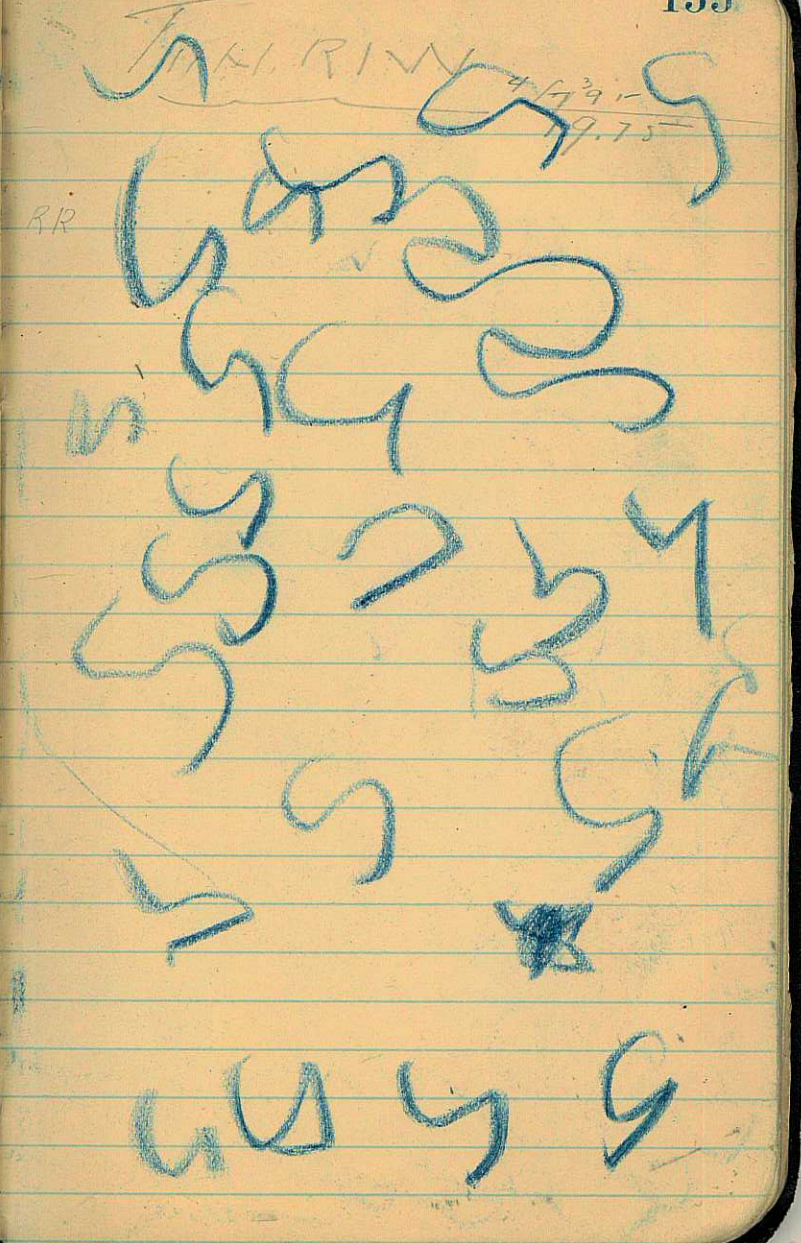


14
11 1/3
13 7/3
11 1/3
2 2/3

17 3/3
11 1/3
6. 2/3

8 =
14 2/3
8
6 2/3





Latch Levels April 30/04

College

RR	
4.70	
3.00	
3.40,	
5.78	
4.28	
3.60	
4.41	
4.80	
5.20	
4.60	
5.20	
5.10	

5.80
4.67
1.13

In Bot of ditch 4 chs SE of intersection of Large ditch & E. line of Nettles land.
On S. bank of ditch
On N bank.

On Bot. of large ditch at intersection of it & Nettles E. line
On N. bank.
On S bank.
On plane ground near S bank of Latch

3 chs S. of Large ditch on plowed ground.

On Bot of small Latch 5.50 S of Large ditch on Nettles E line.

On Lacern ground W bank.

About 2 chs W. of small Latch

About 8 chs S of Large Latch on Bot of small ditch

(Conclusion on paper)

H. T. Benson
Sec 20.
TP 12. R W.

Hans. Anderson

Mich. Poulson

Fred C. Yonk. q

Lei's. for Petersboro Sur.

Peter N. Garff to.

Henry T. Benson
Part NE¼ of SW¼
39½ a. TP 12 N. R 7 W.

Beg at pt 1rd. W of SE cor.
sd gr. (SW¼) W 79 rds
To SW cor of NE¼ of SW¼
N 80 rds to NW cor of NE¼
sd gr sec. E 79 rds to pt
1 rds W of NE cor of SE¼
sd gr sec. S 80 rds to
beg. Area 39½ a.
Bk. P 114. L 40

John H. Yonk. to.
Fredrick C. Yonk.
Part NW & SW¼ sec 20
as fol:-
Beg at SE cor of NW¼ sd
sec 20. W ½ rd. N 80
rds to pt ½ rd W of E
(con on page 144)

Leaving Lots 1 to 5 W. Main 9/24

N. S.

Center St.

1 | 101.5 | 2 | 87.75 | Vac. 3 | 97.6 | 74.8 | 74.9 | 4

Vac. 106.65 — Vac. 13.5

Blk 13. Plat A

Logan City

Center St. S.

104.6
56.04
160.64
90.6
70.0

1.25
70
87.50

1 | 104.6 | 56.04 | 70.88 | 72.74

Blanchard

2nd 53 | 2

church

B.

Blk 12 Plat A Logan City

Ave. Lots 1 to 5

Center St.

1 | 150.1 | 150 | 2 | 149 | 3 | 152.1 | 4 | 129.50 | 49.95 | 49.75 | 69.2 | 67.5 | 31.9 | 50.3 | 156.32

Lewis E. Property.

Blk 11 Pla. A. Logan City

Blk 10 Pla. A. Logan City

Center St.

1 | 75.8 | 2 | 152.45 | 76 | 3 | 150. Coal yard | 149.0 Eglove | 75.7 | 77 | 153.3

Blk 9. Pla. A. Logan City

Blk 8. Pla. A. Logan City

Center St Pav. Latmos

80 / 72.7 / 152.7

80 / 1.8 / 77.8

80 / 70.9 / 150.9

160 / 66.5 / 226.5

152.7 | 50.8 Fe Fence | 97.8 | 65.05 | 82.2 | 74.75 2 Trees | 74.8' Barn | Canal | 150. | 150.9" | 74.3' Lafount | 226.5

BK. 7 Plat A. Logan City

BK. 6. Plat A Logan City

80 / 22.7 / 102.2

80 / 53.5 / 133.5

Center St.

80 / 8.9 / 88.9

80 / 72.65 / 152.65

102.2 | 49.3½ | 99' W. Thrift | 133.5 | 66 Odell | 152.65 | 79. Church | 73.26 Roberts | 89.8 Tib. Thatcher | 64.55 | 75.18 Ferguson | 225.4 Summers

2nd West

BK. 5. Plat A. Logan City

BK. 4 Plat A Logan City

160 / 65.4 / 225.4

Sur. for H.T. Benson & Co.

of NE¼ of SW¼ sd sec. W 79½ rds to SW cor. of NE¼ sd qr. sec. N 105 rds to pt 1rd S of NW cor of SE¼ of NW¼ sd sec. E. 12.40 chs to W bdy of the C. & K.R. S by along R.R. r/way 31.25 chs to east bdy of SW¼ S along qr. sec. line 28.50 chs to beg. Area 67.62 As Bz. P M4. L 37

see on page

Willard D. Grainy to Nicholas. Part of the NW¼ sec 20. Tp 12 N. R 1 W. of 5th PM.

Beg at pt 1rd N of pt 2 rds E of SW cor of NW¼ sd sec. E 78 rds to pt 1rd N of E cor of SW¼ of sd qr sec. N 78 rds. W 78 rds

To E bdy of Co Road. S. along S. bdy Co road 78 rds to beg. Area 38 9/160 A. Also Beg at pt 2 rds E of NW cor of SW¼ of NW¼ of sec 20. E 78 rds to NE cor of sd qr of qr sec. S 1 rds. W 78 rds to E bdy Co road N 1 rd to beg. Area 78 sq rds. Bz P 114. L 51

Hans Anderson to Wm Anderson part of SW¼ sec 20

Beg at SW cor sd sec. N 160 rds E 65 rds. S 160 W 65 rds to beg Area 65 A. (except ~~not~~ des)

~~Wm. Anderson~~ to James Anderson. Part of SW¼ sec 20

(see over)

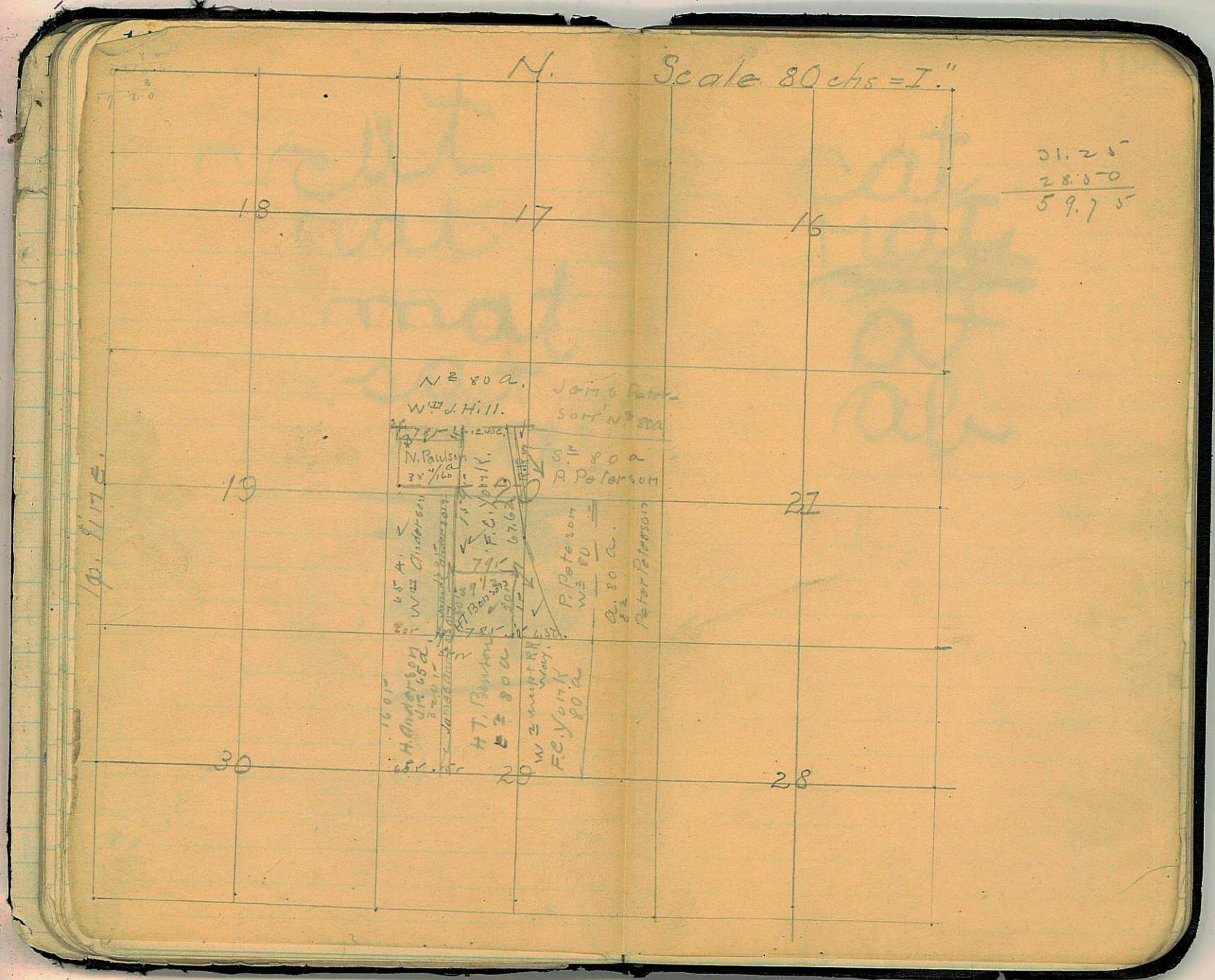
Com. at pt 60 rds E. from SW cor. sd sec. N 160 rds; E 5 rds; S 160 rds; W 5 rds to beg. Area 5 A. Bz. L 36. P 114.

Also beg. at pt 65 rds E of SW cor. of NW qr. sec. 29. N 320 rds; E 15 rds; S 320 rds; W 15 rds to beg. Area 30 a.
Bz. P 123. L 31

Peter Peterson to Fred. C. York. Part of SE¼ of Sec. 20.
Beg. at SW cor of SE¼ sd sec. E. 6.50 chs to W bdry of O. S. L. R.R. right of way. N'ly along sd right of way 28.50 chs, to N bdry of SE¼ S along sd bdry 28.50 chs to beg. Area 9 1/4 a.
Bz. P 114. L 20

John H. York to Peter Peterson.
Part of NW¼ sec 20.
Beg. at E cor of NW¼ sd sec. N 79 rds to pt 1 rds E of NE cor. of SE¼ of NW¼ W 6.10 chs to E bdry of O. S. L. R.R. S along sd bdry 79 rds to S bdry of sd qr sec. E 1 ch 44 lks to beg. Area 7.44 a.
Bz. P 114. L 23

rett
rat
mat
sat
hat

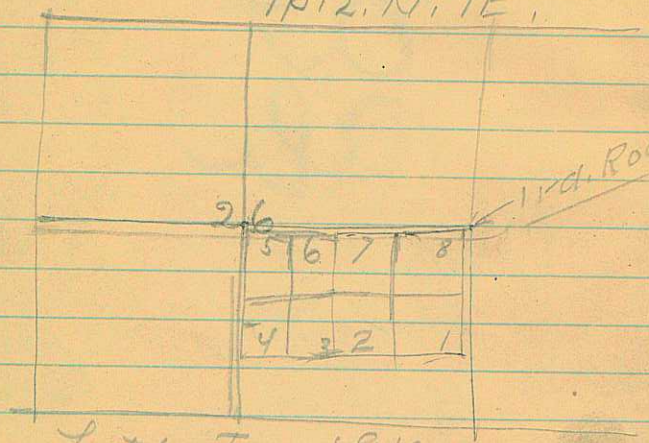

N.
Scale 80 chs = 1"
18
17
16
19
21
30
29
28
N½ 80 a.
W. J. Hill.
James Peterson N½ 80a
N. Paulson
E.C. Young
P. Peterson
N½ 80 a.
A. Peterson
H. Anderson
H.T. Benson
N½ 80 a.
W½ Chesterson
Peter Peterson
31.25
28.50
59.75

cat
mat
at
ab

Sur. for. Albert Gaige and Co. May 4/64

All of Lots 1, 2, 7 & 8, Blk 23, Plat of Logan Blo. Pg 220 Farm Sur.

Tp 12. N. 1E.



Lot 6. Fred Gilgen

Ad Lot 3 9 rd E & W. by 38 rds N & S. 9 42/160 A.

Reading on Sat. in Boiler.

Sta	F.S	B.S.		Ele.
0		4.501		100
	0			
	8.295			
	9.795		D 5.294	94.706

Fall per 25 ft = 0.3525

Sta	actual R	cut	RR
	4.501		
	.352		
+25	4.853	0.783	
	.352		
+50	5.205	1.305	3.90
	.352		
+75	5.557	1.34.	4.21
	.352		
1	5.909	1.22	4.71
	.352		
1+25	6.261	1.581	4.68
	.352		
1+50	6.613	2.09	4.52
	.352		
1+75	6.965	2.54	4.42
	.352		
2	7.317	3.59	3.73
	.352		
2+25	7.669	4.07	3.60
	.352		
2+50	8.021	4.69	3.33
	.352		
2+75	8.373	5.27	3.10
	.352		
3	8.725	5.67	5.05
	.352		
3+25	9.077	6.62	2.46
3+50	.352	7.03	2.40
	9.429		

8.295 8. 100.000
4.501 5.294 18.295
3.794 94.706 1.500
9.795
6.643 8.69 9.795
4.501 6.43 4.501
1.844 2.26 5.294

Ons stake near Main Bld. near condenser.

Ons water level in Creek, in em and bottom of Creek,

5.557 4.853
4.210 4.07
1.347 S = f/l .783

5.205 5.294 (375 .0141
3.90 375 25
1.305 1544 705
1500 440
375 282
.3525

.3525 5.909
15 471
17625 1219
35 26
5.2875

6.613 6.261 6.96
4.520 4.680 4.42
2.093 1.581 2.54

(carried over Page 154.)

3.50	9.429	7.03	2.40
3+75	.352		
	9.781	2.23	7.550

Bottom of canal

may 5/04

Ex Mayor L. Hansen

On main Line of sewer,
Actual cut for 4" pipe
on lateral.
On bottom of 4" pipe in Boiler room.

at the Y

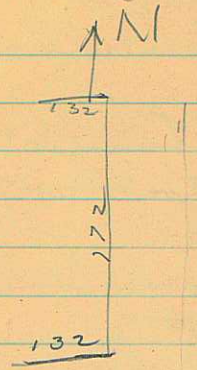
Sta	Actual R.I.	R.R.	Cut	Fl
2+25				
2+25	7.89	3.820	4.07	
	7.69		3.87	
0	5.40	5.40		
0	5.40	5.40		

7.69
5.40
2.29

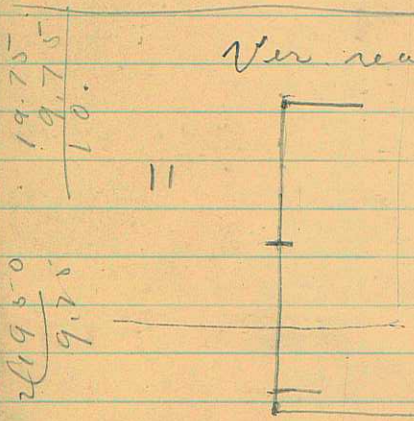
fall per 25' = 0.327

0	5.40		
+25	.327		
	5.727	3.68	2.047
+50	.327		
	6.054	3.18	2.87
+75	.327		
	6.381	4.22	2.16
1	.327		
1+25	6.708	4.38	2.32
	.327		
1+50	7.035	4.15	2.88
	.327		
1+75	7.362	4.05	3.31
	.327		
	7.689	3.62	4.07

Grave yard work
may 8/04



Ver reading 64.53

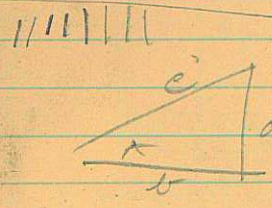


64.64
18-00
164.64

64.64
50
194.64

102.11
00
2.11

720
02
722
264
1036



$\sin A = \frac{a}{c}$

$\sin A \cdot c = a$

$c = \frac{a}{\sin A}$

log. 25 = 2 5 T 39794

log. 7071 = T 84948
54846

+1 -1

log. 2 5 = 1. 39794

log. 7071 = T. 84948
T 54846

.353

10.611

141
80
11,280

10,610 | 11,280
10162 0.00094
46800
45120 ·00094
680 80
·07520

10.611 | 141
987 ·0752
741
706
860
282

10752
141
7 52
3008
752
10.6032

Sta. No.	Stadium. Higher	Stadium. Lower	Hight of Inst.
142	9.50	4.68	4.68
143	10.733	4.68	4.90
144	6.296	4.90	4.87
145	6.42 / 4.87	4.87 / 1.98	"
146	4.87	2.107	"
147	9.17	4.87	"
148	10.06	4.87	"
149	11,006	4.87	4.81
150			
151	10.17	4.81	"
152	10.233	4.81	4.84
153	4.84	2.503	4.74
154	4.74	3.73	"
155	4.74	3.03	"
156	8.073	4.74	4.81
157	4.81	4.18	"
158	4.81	3.32	"
159	4.81	3.23	"
160	4.81	2.355	"
161	4.81	2.15	"
162	7.86	4.81	"
163	9.41	4.81	4.77
164	4.77	3.84	"

Stadium (1)

Sta. No.	Upper	Lower	Height of Inst.
96	4.484	3.63	4.98
97	4.98	2.766	4.67
98	4.67	3.526	"
99	4.67	3.436	"
100	7.037	4.67	4.89
101	4.89	3.392	"
102	4.89	1.518	4.92
103	4.92	3.668	"
104	4.92	3.96	"
105	4.92	3.947	"
106	4.92	4.74	"
107	7.222	4.92	4.50
108	4.50	3.342	" con. Tu
109	4.50	3.095	"
110	4.50	2.682	"
111	4.50	1.704	4.82
112	4.82	4.27	"
113	4.82	4.06	"
114	4.82	3.448	4.72
115	4.72	4.15	"
116	4.72	3.66	"
117	4.72	2.00	"
118	8.117	4.72	"

(2) Stadium.

Sta. No.	Upper	Lower	Height of Inst.
119	8.697	4.72	4.86
120	4.86	4.80	"
121	4.86	3.89	"
122	4.86	2.88	"
123	4.86	2.717	"
124	4.86	2.10	"
125	4.86	1.70	"
126	6.956	3.00	4.99
127	4.99	2.47	" con. Tu
128	4.99	1.82	"
129	4.99	3.433	"
130	9.69	4.99	4.96
131	4.96	2.918	"
132	4.96	2.20	"
133	8.133	4.96	4.70
134	4.70	4.13	"
135	4.70	1.672	"
136	8.386	4.70	"
137	10.052	4.70	4.68
138	4.68	4.12	"
139	4.68	3.101	"
140	4.68	2.087	"
141	4.68	1.514	"

Lev. at Wellsville
camp 10/04

80' sta
fall per sta =
.0675

Staging backwards

Sta	RR.	fill	cut	
141	7.0320			
~~140~~	~~7.1071~~	~~1.42~~		
140	8.1820	.35		8.53
	.0675			
139	8.2495	2.15		
	.0675			
138	8.3170			
	.0675			
137	8.3845			
TP 137	8.6100			
	.0675			
136	8.6775			
	.0675			
135	8.7450			
	.0675			
134	8.8125			
	.0675			
133	8.8800			
	.0675			
132	8.9475		.723	8.224
	8.7000			
TP 132	.0675			
	8.7675		.82	8.675
	.7200			
131	9.4905			
	.0675			
130	9.5580		.463	9.095

Carried over

8.53
7.11
1.42

1.10
10.611
.15
9.461
840
1061
986
810
840

8.53
8.15
.35

8.947
8.224
.723

9.49
9.5 8.67
.82
9.558
9.095
.463

72
12
144
72
9.14

82
12
164
82

from top of stake

Wallowa

Sta	actual RR	cut	our stake RR
130	9.5585	0.463	9.095
	.0675		
129	9.6260		9.095
	.0675		
128	9.6935	0.67	9.027
	.0675		
127	9.7610	0.74	9.020
	.0675		
126	9.8285	.603	9.225
	.0675		
120	9.8960	.586	9.310
T.P.125	11.1470		
	.0675		
	.586		
124	11.8005	.88	10.92
	.0675		
123	11.8680	1.174	10.694
	.0675		
122	11.9355	.981	10.954
	.0675		
121	12.0030	1.03	10.970
	.0675		
120	12.0705	.99	11.08
	.0675		
119	12.1380	1.08	11.05
	.0675		
118	12.2055	.99	11.21
	.0675		
117	12.2730	1.29	10.980
TR 117	8.3790		
	1.2930		
	.0675		
116	7.7395	1.029	8.71
	.0675		
115	9.8070	1.021	8.78
	.0675		
114	9.8745	.80	9.07

Carried over

9.626
9.095

9.76 9.69
9.02 9.02
.74 .69

9.828
9.22
.603

11.868
10.694
1.174

11.935
10.954
.981

12.07
11.08
.99

12.20
11.21
.99

9.739
8.71
1.02

12.003
10.97
1.03

12.138
11.05
1.08

12.273
10.98
1.293

9.80
8.78
1.02

9.896
9.31
.586

11.80
10.92
.88
.2
17.6
8.8
10.56

9.87
9.07
.80

Wallkill Valley May 11/04

E. field to Canal Co.

Sta	Actual RR.	Cut	RR.
114	9.8745	0.80	9.07
	.0675		
113	9.9420	0.922	9.02
	.0675		
112	10.0095	0.87	9.13
	.0675		
111	10.0770	1.00	9.07
	.0675		
110	10.1445	.91	9.23
	.0675		
109	10.2120	.68	9.53
	.0675		
108	10.2795	0.8595	9.420
TP 108	9.5590		
	.8595		
	.0675		
107	10.4860		9.63
	.0675		
106	10.5535		
	.0675		
105	10.6210	1.02	9.60
	.0675		
104	10.6885	1.00	9.68
	.0675		
103	10.7560	1.61	9.74
	.0675		
102	10.8235	1.10	9.72
	.0675		
101	10.8910	1.14	9.75
	.0675		
100	10.9585	1.4085	9.5500
TP 100	10.8540		
	1.4085		
	.0675		
99	12.3300	1.45	10.85
	.0675		
98	12.3975	1.35	11.04
	.0675		
97	12.4650		

Carried

9.44 9.9420
9.02 9.02
.42 .922

10.077 10.099
9.07 9.13
1.00 .87

10.144 10.21
9.23 9.53
.91 .68
.12 .12
1.82 1.36
9.1 5.8
10.92 10.2795
9.42
.8595

10.28 10.48
9.42 9.63
.86 .85
.12 .12
1.72 1.70
.86 .85
10.32 10.20

10.8760 10.82
9.74 9.72
1.01 1.16

10.9585 10.89
9.518 9.75
.12 1.14
2.82
1.41
16.92

10.9585
9.5500
1.4085

12.39 10.858
11.04 1.485
1.35 .12
.12 .90
.96 .540
.35
4.20

Willsville
& Canal

Sta	actual RR.	Cut		on slake RR
97	12.4650	1.33		11.13
	.0675			
96	12.5325	0.95		11.58
	.0675			
95	12.6000	2.3		10.30
	.0675			
94	12.6675	1.01		11.61
	.0675			
93	12.7350	1.30 5-0		11.4350
TP 93	11.9440			
	1.3050			
	.0675			
92	13.3160	1.24	15"	12.07
	.0675			
91	13.3840	2.6900	32 1/4	10.694
TP 91	5.6320			
	2.6900			
	.0675			
$ 90	8.3895	1.26	15"	7.13
	.0675			
89	8.4570	1.26	15"	7.20
	.0675			
88	8.5245	1.52	18"	7.02
	.0675			
87	8.5920	1.13	13 1/2"	7.46
	.0675			
86	8.6595	0.76	9"	7.90
	.0675			
85	8.7270	.78	9 1/4"	7.95
	.0675			
84	8.7945	.72	9"	8.07
	.0675			
83	8.8620	.62	7 1/2	8.24
	.0675			
82	8.9295	.61	7 1/4	8.32
	.0675			
81	8.9970	.52	6 1/2	8.48
	.0675			
80	9.0645	.4925	6"	8.5725

Carried over

12.4650
1.33
1.33 12.60
12.53 103
2.3
.97
12.66
11.61
11.01
12.7350
11.4300
1.3050
12.7350
11.9440
.7910
0750
8660
11.9440
12.8550
13.31
12 07
1.24
13.38
10 69
2.69
12
138
69
8.28
13.3840
10.694
2.6900
8.46
7.20
1.26
8.39
7.13
1.26
8.79
8.07
.72
144
72
8.64
8.59
7.46
1.13
8.52
7
1.52
8.66
7.90
.76
8.86
8.24
162
12
124
62
9.0645
8.5720 8.73
.4925 7.95
.78
12
156
78
8.96
8.93
8.32
.61
12
122
61
7.32
9.000
8.48
.52
12
104
52
6.24

Willsville Ext. Canal

May 11/04

Sta	actual RR, cut			on stake RR.
64	8.3005	.16		18.14
	.0675			
63	8.3680	.15	1 3/4	8.22
	.0675			
62	8.4355	.28	3"	8.15
	.0675			
61	8.5030	.53	6"	7.97
	.0675			
60	8.5705	.39	4 1/2"	8.18
	.0675			
59	8.6380	.41	5"	8.22
	.0675			
58	8.7055			8.50
	.0675			
57	8.7730			8.52
	.0675			
56	8.5405	0.0685		8.7710
	7.1400			
TP.56	.0675			
	.0685			
55	7.2760	.15	1 3/4	7.12
	.0675			
54	7.3435	F.06	3/4"	7.40
	.0675			
53	7.4110	F.15		7.56
	.0675			
52	7.4785	F.06	3/4	7.55
	.0675			
51	7.5460	F.52		8.06
	.0675			
50	7.6135	F.41		8.02
	.0675			
49	7.6810	F.18		7.80
	.0675			
48	7.7485	F.16	1 3/4	7.80
	.0675			
47	7.8160	F.22	3"	8.03
	.0675			
46	7.8835	F.12	1 1/4	8.00
	.0675			
45	7.9510	F.15	1 3/4	8.10

8.37 8.22 .15 .12 .03

8.43 .15 .28

8.8405 8.7710 .0685

45	7.9510	F.15	1 3/4	8.10
44	8.0185	F.1965	2 1/4	8.2150
P.44	6.5220			
	6.3255			
43	6.3930	.105	1/2	6.34
42	6.4605	Grade	0	6.46
41	6.5280	C.02	0	6.50
40	6.5955			6.50
39	6.6630	C.14	1 3/4	6.52
38	6.7305	C.26	3"	6.47
37	6.7980	.31	3 3/4	6.49
36	6.8655	.23		6.63
35	6.9330	F.11	1 3/4	7.08
34	7.0005	C.15	1 3/4	6.85
33	7.0680			6.6730
TP33	7.6590	C.3950		
32	8.1215	C.50		7.62
31	8.1890	C.03		8.15
30	8.2565			8 Hz
29	8.3240	C.18		8.14

8.0185
8.2150

8.2150
8.0185
.1965
12
35
19
2.28

6.39
34
.05

6.66
.52
.14

673
647
.26

6.80
4.99
.31
12
62
31

6.86
663
.23

7.08
6.93
.15

12
.40
4.80

7.00
6.85
.15

7.0680
6.6730
.3950

8.12
7.62
.50
36
14
18
12
36
18
2.16

12
14
.18
12

Wellsville East Canal May 12/04

Sta	Station RR	Cut	Fill	Unadjusted RR
29	8.3240	.18	—	8.14
	.0675			
	8.3915	C. .0605		8.3310
TP 28	10.4500	C.		
	.0600			
	.0675			
27	10.5780		0.2 3½	10.7805
	0675			
26	10.6455	.39		10.25
	.0675			
25	10.7130	.05		10.66
	.0675			
24	10.7805	.1555		10.6250
TP 24	7.6400			
	.1555			
	0675			
23	7.8630	.08		7.78
	0675			
22	7.9305	.27		7.66
	.0675			
21	7.9980	.14	.14	8.14
	.0675			
20	8.0655		.05	8.11
	0675			
19	8.1330	.03		8.10
	.0675			
18	8.2005	.5805		7.7200
TP 18	8.5340			
	.4805			
	.0675			
17	7.0820	.15		8.93
	.0675			
16	9.1495	.26		8.89
	.0675			
15	9.2170	.20		9.01
	0675			
14	9.2845		.23	9.51
	.0675			
13	9.3520	.21		9.24
	0675			
12	9.4195	.07		9.34

8.39 / 8.338 / .06 / 12 / 12

10.59 / .78

.78 / 5-8 / .20

10.71 / 66 / .05 / .7801 / 625 / .1555

7.86 / .78 / .08

8.11 / 06 / .05

9.15 / 8.89 / .26

9.51 / .28 / .23

41 / 34 / .07

12 / 6 / .72

8.3915 / 8.3310 / 0605

10.64 / 10.25 / .39 / 12 / 18

38 / 4.78

7.93 / 7.66 / .27

8.0

9.08 / 8.93 / .15

12 / .2 / 2.4

9.35 / 24 / .21 / 12 / 42

21 / 2.52

8.2905 / 7.7200 / .4705 / 12 / 116 / 57 / 6.96

		cut	F	
12	9.4195 .0675 9.4870	.07		9.34
11		.0080		9.4790
TP 11	7.5810 .0080 .0675			
10	7.6565 .0675	.23		7.430
9	7.7240 .0675	.18		7.90
8	7.7915 .0675	.11	.11	7.80
7.	7.8590 .0675	.24		7.62
6	7.9265 .0675	.11	.11	8.04
5	7.9940 .0675		.06	8.05
4	8.0615 .0675	.36		7.7
3	8.1290 .0675	.17		7.96
2	8.1965 .0675	.17		8.03
1	8.2640	.0140		8.25
TP	9.3500 .0140 9.364 .0675 9.431			

5 trees Wind Blk 4.
3 " E " " "
10 trees on Blk 5
West front tree will just pass.

9.4870
9.4790
.0080

7.66
7.43
.23

7.90
.12
.18
.12
.36
.18
2.16

8.2640 86
8.2500 62
.0140 .24

8.04
7.93
.11
.12
.23
.11
1.32

8.05
7.99
.06

8.06
7.7
.36
.12
.72
.36
4.32

8.13
7.96
.17
.12
.34
.17
2.04

8.13
8.03
.10

8.20
8.03
.17

1 tree in front of Gw.
Thatches .9 away.

Nov. 8

Grade for O. Nelson

4.12 / 2.5 / 4.37

Remarks

Nov. 8/04

Sta	BS.	FS	Elev	HI	INC.
6+02.7	7.213		100.00	107.213	4.12 in cen. of Road 4N.+1 & SW cor. BIK on nail
X		1.455	105.758		
	8.940			114.698	
		1.300	113.398		SE cor. BIK on nail
					Sum of BIK on S side = 602.7'
					04 0 = 2.225
2+32			108.248		
3			106.699 appx		
TP x	5.855			111.613	
2+32		3.365			on grade at Nelson's sta.
3		~~4.95~~			4.952 on grade
			107.163		4.45 on H2O table SE cor P.O. Hansens house

4.9.6
4.4.5.0
4.4.5

107,213
1,455
105,758
8,040
14 698
1,300
113398

(4)

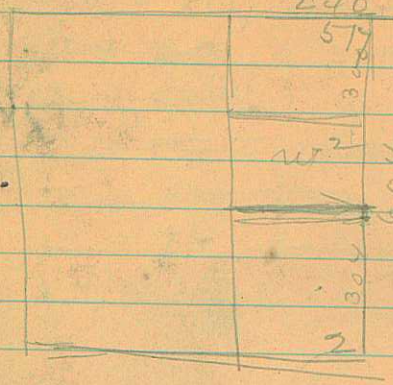
Station No.	Stadia Upper	Stadia Lower	Height of Inst.
165	7.16	4.77	4.97
166	6.34	4.97	"
167	4.97	3.26	"
168	7.23	4.97	"
169	7.667	4.97	4.70
170	4.70	2.882	4.77
171	11.28	4.77	
172			
173			
174			
175			
176			
177			
178			
179			
180			
181			
182			

Blocks: 1 + 35
2 + 34, 3 + 33, 4 + 32,
7 + 29, 6 + 31
6 + 30,
8 + 22, 9 + 21, 10 +
20, 11 + 19, 12 + 18,
13 + 17, 14 + 16, 7 + 8,
15 + 48.

cat
Mat
mat
sat
bat
a
all
ball
hall
shall
dall

66 / 8.25 / 7 4.25

18 16.5 / 18 / 1320 / 165 / 297.0 / 246 / 57 / 3 / 80 / 3



38.63 / 200

297. / 36 / 2 300.6 / 150.3

Log 277 = 2,442 48

Log 1800 = 3,255 27

Log 62.5 = 1,795 88

7.493 63

Log 33,000 = 4,518 51

2,97512

7/2

70 12 / 100 58 / 96

944.3 / 20

944.3 / 188.8 / 745.5

944.3 / 20 / 188.860

36.1 / 26 / 39.10

38.10 / 26 / 394

36.16 / 10 / 36.1

39.10 / 2.6 / 374