18

FIELD BOOK

400

18

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60

Eugene Schaub
County Surveyor
May 4/07

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1

$\frac{18}{216}$ $\frac{31}{276}$

14
13
12

1 6 5 4 3 2 1
12 7 8 9 10 11 12
18 17 16 15 14 13
19 20 21 22 23 24

Lev of Grade in
Blacksmith fork Canyon

Sta	BS	FS	HI	Ele.	HI
Bm	4.638			507.75	512.388
11+00					
Bm		2.125		510.463	
11+17.5					
11+94					
12+50					
13+61.2					
PI 12+87.2					
15+49					
16+07					
16+87					
17+62					
16+82					
17+32					
17+62					
17+92					
18+42					
10+37					
10+87					
11+37					

Level for
Levels

C cut	− L	+ R	Curve	HI	RR mg	RR mg
on Hub S of PI, 9+21.6						
on Hub near Sta 11 (on S)						
	51°30'	11°59	S60°0'E	410 7.10		
1.4		33°42		450 5.9		
6.7	54°00	~~56°45~~	S21°10'E	447		
			~~S8°10'E~~			
10.8				438		
13.6	−20°06			463		
3.4	−7°40			457.96		
	19°22					

PC 12° L
set ⊥ ~~ff~~ rd.

P.T.
PC 8° R
on curve

Sta	BS.	FS	m	Ele	HI	C.C	RC.	Rout	Pavement	RR	RRm	side
Bm.	3.730			510.463	514.193							
10+37				496.828								
0				495.013								
10+37			17.365									
50			0875									
10+87			17.2775									
56			0875									
11+37			17.1900									
49												
11+93			17.0910									
57			0875									
12+50			17.0035									
50			0875									
13+00			16.9160									
62			1085	on upper Si.								
13+62		9.702	16.8075	504.491								
13+62	7.449		14.5545		511.940							
126			2205									
14+87			14.3340	497.606								
14.87		0.20		on gr. 511.740								
14+87	5.476		19.6100		517.216							
62			1085									
15+50			19.5015									
16+02		1.91	0927	497.8072								
			19.4088	515.506								
16+02	14.25		31.7500									
16+87	R Si		1487									
			31.6013									
16+02	0.960		18.4588	497.8072	516.266							
16+87			1487									
			18.3101									
Bm		(1.74)	0787	514.526 Bm								
17+37			18.2314									
30			0526									
17+62		11.1040	18.1789	505.162*								
17+62	3.550		10.625		508.712							
17+92			0525									
			10.5725									
18+42			0875									
			10.4850	498.227								

514.193
9.702
504.491
7.449
511.940

49.77

510.463
3.730
514.193
496.828
17.365

on hub near Sta 11

on grade

	7.91	9'	22	19.57	9.45
2.4	10.2	10'		14.85	7.1
5.8	13.74	11		11.40	3.45
3.14	9.1	9'		13.95	8
.4'	7.58	8.5'		16.60	9.42
	7.00	8.5	4	17.25	9.90
1.5	7.1055	9'		15.30	9.7
7.4	7.4			6.92	

517.216
96
256

on TP R Si

	15.5	11'			
3.1	9.9	9'		16.39	
17.5				1.91	
	31.25	18'			0.55
	24.75	17			6.85
				~~14.~~	
14.2				4.1	
2	11.6	10.5		14.2	6.66
.3	7.0749			17.9	11.104
	7.075			*	
2.14	8.5			8.50	
2.00	9.1	8.5		8.46	3.35

on cuff by stake n of Sta 16+87

on hub

on hub upper Si.

Observations

Ob. Sat. May 11, 1907

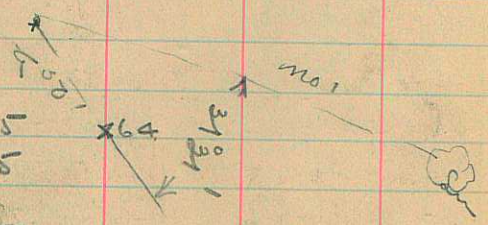
B. S. Fork Canyon

No. $L^s L = 31°31'$

$h = 33°05'$

Mag. course of Sun S 84°20' E

Time 8.20 am



No. $L^s L$. 30°25

$h = 34°15$

May course Sun

Time 8.25 am

S 83°15' E

Ob. near the South 1/4 cor of sec. 2, in township 10 N. Range one east.

Sat May 11, 1907

Mouth of Blacksmith fork Canyon.

County Work May 11 1907

Ob. on NE cor sec 19. T11N. R1E.

$h = 50°24$

$\cos A = \dfrac{\sin D \times -}{\cos h \times \cos L} - \tan h \times \tan L$

Greenwich = 17°39'27"

D = for 1 h = 39.19"

42°

698, 60" ; 21.6 ; L

60

1296.0 | 69.8

698 | 18.5

5980

5584

3960

3390

41.5960

1830

41 41 30

111°53

.7469 2000

298 7.6000

.01 75

149380

209132

29876

5228300

111

60

6660

52

6712.900

6300 | 7.457.

4120 | 2

3600 | 5457

5200

4500

7000

Lat = 41°41'30"

Long 111°52' =

D = 17°42'36.3

Log 5457 = 0.73695

Log 39.19 = 1.59318

2.33013

Log 60 = 1.77815

0.55198

3.56"

60

3360

17.3862

3 33.6

35 29

17°39 2.7

3 33 6

17°42 36 3

seconds

Ob. continued

Cor
$\Delta = 17°42'36''.3$
Lat = 41°41'30
$h = 50°23'31''$

~~Log cos 50°23'31''~~ =

Log Sec 17°42'36 = $\bar{1}.48287$

Log cos 50°23 = $\bar{1}.80462$

$\bar{1}.67825$

Log 41°41 = $\bar{1}.87326$

$\bar{1}.80499$

= .06382

Log tan 41°41 = 8904 = $\bar{1}.94959$

Log tan 50°23 = 0.31911

$\bar{1}.26870$

=

1.8565
.6382
1.2183
63822
.01856
.6197 38°18'

No h = 59°43

S 44°05 E Sun Sir. May

L.L to College Smoke Stake

97°11'

11 am

~~7698 - .7703 - Σ D~~

3035 - .3040 - Σ D

.0027 ; 600'' ; ∨ ; 36.
36
162
81
.0972 | 600
600 | .00016
3720
3600

.6383
6
6377

8899
8906
7470
7469
121 31
120 59
00.72

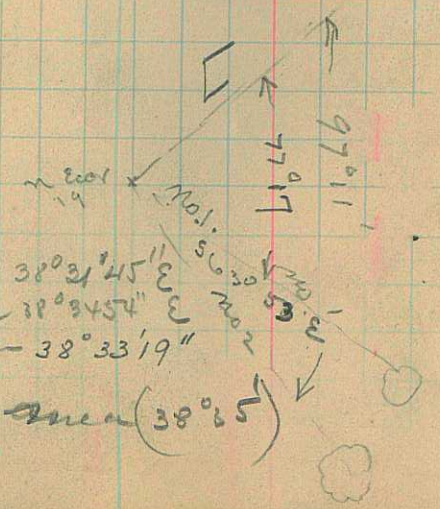
.0072 ;

.0072 ; 10 ; ∨ 3
3
.0216 | 3
21 | .0072
3 | .0072
.0026
2059
26
1.2085

College Smoke Stake

2188
2169
19

12°27



h = 56°51' 56.51
D = 84°42 56.5040
10.30 24
56.5036

h = 57.32 5/18/07

D = 86°09

Tc 10.30

Long 7.457

g = 19°21'16.8

D for 1 hour 33.74

19°21.16.8
3.20
19°24'36"

No. 2.

Log cos 19°24'36 T.52153
Log cos 57°32 T.72982
T.79171
Log cos 41°42'30 T.87316
T.91855

.82900

Log tan 57°32 0.19637
Log cos 41°42'30 T.94973
0.14610

57°11'10" 1.39980
8609 82900
1.412010 .57080

472 / 14 / 456 52153.5 / 13 / 52153 184 7.457 / 1.50 / 5.957

Log 5.957 = 0.77503
Log 33.74 = 1.52815
2.30318
Log 60 1.77815
0.52503

8015 / 7 / 4

3.35
60
2000

Log cos 19°24'36" = T.52153
Log cos 56°50'36" = T.73795
T.78358
Log cos 41°42'30 T.87316
1.91042
No 1 = .81362

Log tan 56°50'36 = 0.18486
Log cos 41°42'30 = T.94973
0.13459
1.36330
81362
.54968

24

56°39'20"
8442
141120

.1795960
141 31 20
38 28 40

1795960
141 20 10
38 39 50
38 34 54
38 31 45
3 | 114104 | 1.49
38 34 3835

3 | 16.9
5.6

5/18/07

Sur for Cache Co
on College wood road
Beg at NE cor Sec 19

Dist	Course	Angles L	Angles R
		39°25	
80	N 50 W		
80			

Beg at Stake on Meridian
SE cor Sec 12 T 11 N. R 1 W

1996	N
3977	
5503	
7828	
7982	

3885
3835
50

see sketch over

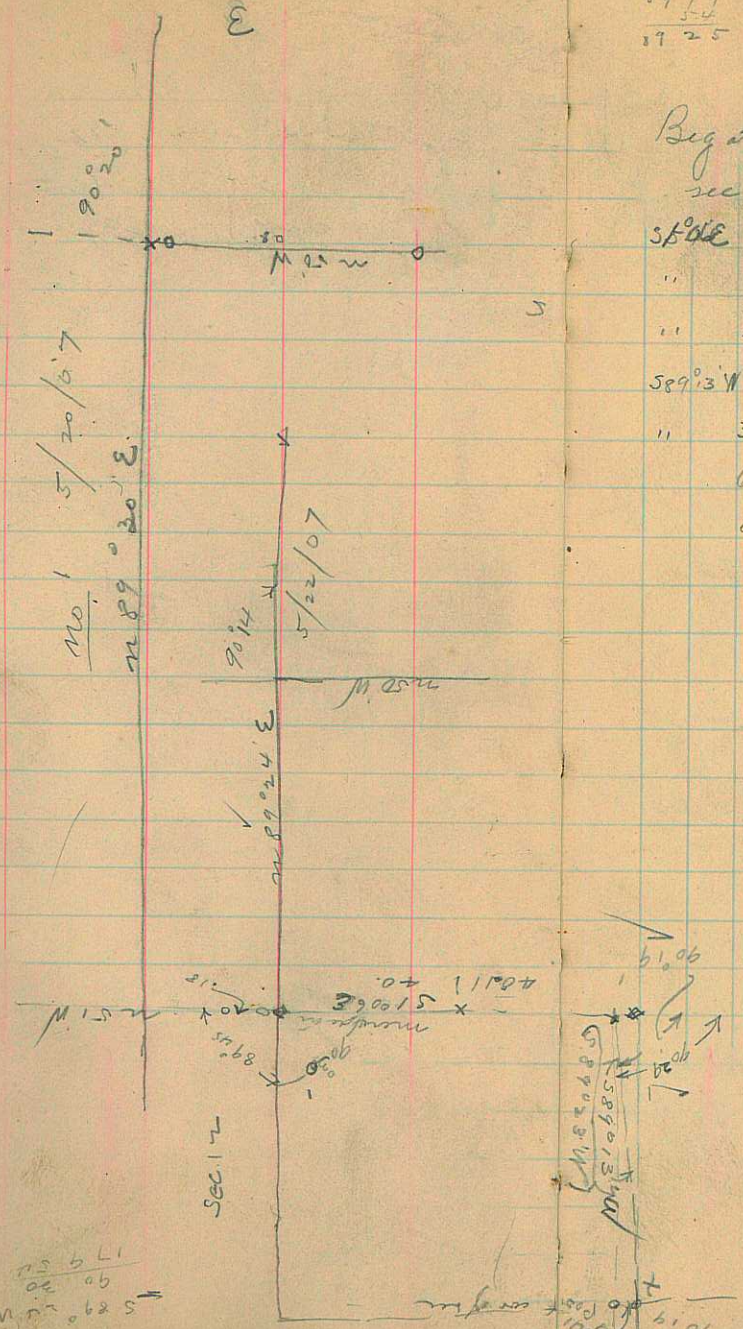
40.00
.08
39.92

Mag 17°57' E

College Machanic art Smoke
stak bear N 38°35' E from
this cor
from Sara Smoke stake
L 39°18 app. sec line

R 48°20' to College Stack
{ note dist from NW cor
of SW ¼ sec 19 to cor 40 rods
39.92 feet short 0.8 ch

which is N of stone 3 years ago set n
to corner fence
to fence S side lane R. E+W
to dis fence
to center of O.S.L. R.R. track
to good cor ~~one~~ the Meridian
field W .035 chains

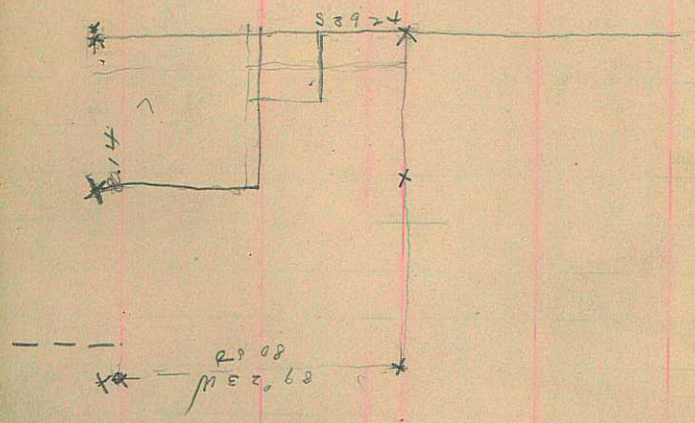

E
S
No. 1
N 89° 30' E
5/20/07
5/22/07
N 89° 24' E
N 89° 24' E
N 1° W
N 1° W
Sec. 12
Meridian
39.015
40.11
S 1° E
S 89° 13' W
S 89° 13' W
S 89° 13' W

16

Water measurements for a Roller

no.	
1	8"
2	7"
3	8"
4	8"

size of tube = 19" × 16" × 9.5"
dia. Rise Depth



HE RR cut 4.64

4.1	3.2	.9	4.94
4.1	3.8	.3	4.54 3.61
4.1	3.3	.8	4.54 3.84 .7
4.1	4.00	.1	4.54 4.40 .2
4.1	3.60	.5	
4.1	3.50	.6	
4.1	3.50	.6	
4.1	4.64	.6	

5.53
4.64
.89

cut
4.1
3.2
.9

4.1
3.3

4.54
3.60
.94
4.80
4.54
3.80
.70

6.00
1.20
.90
.3

171

Lev for Cache County
May 23 '07

Beg at the SE cor of NE¼ sec
25 Tp 13 N R 1 W
Trav

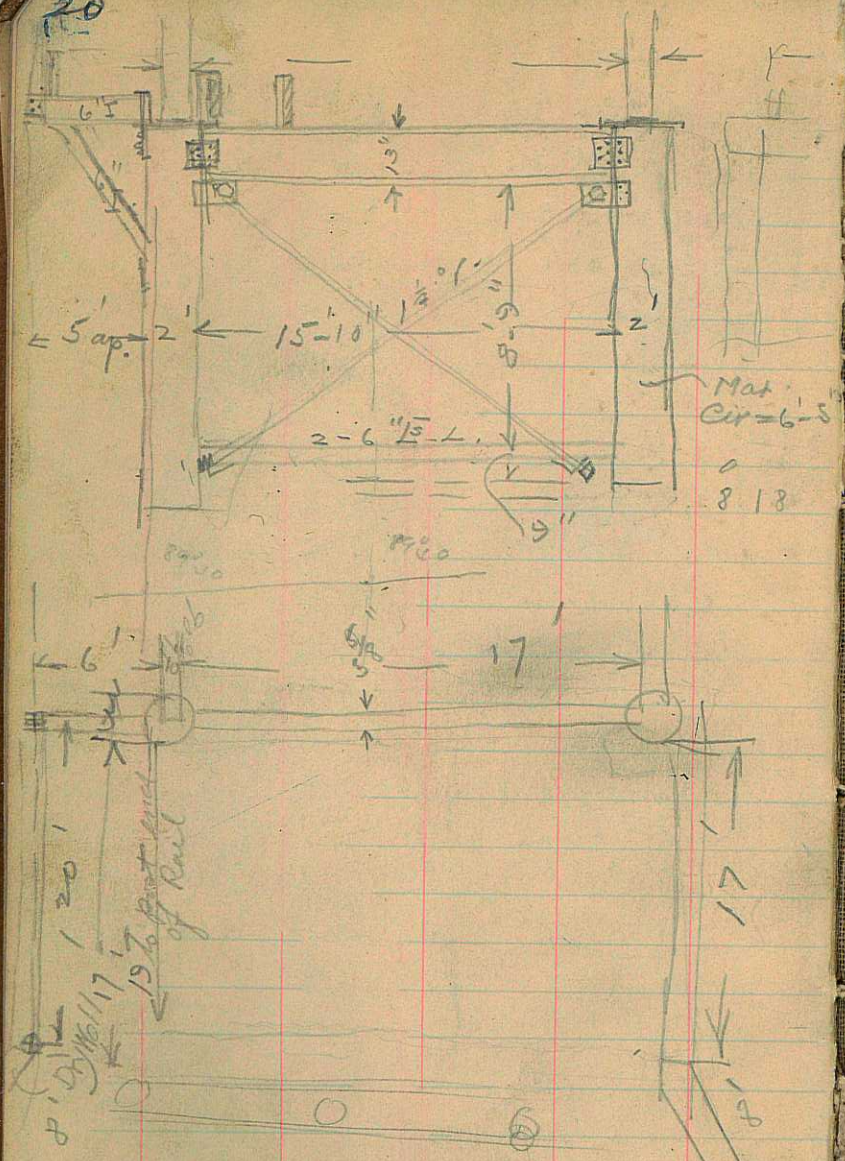
Dist	Course	∠ angle	R
4.367	N 32 W		
40	" "	90°11'	
.25	S 89°17 W		
40.545			
60.46			
60.72			
80.20		89 49	
~~40.51~~ 20.51			
40.42			

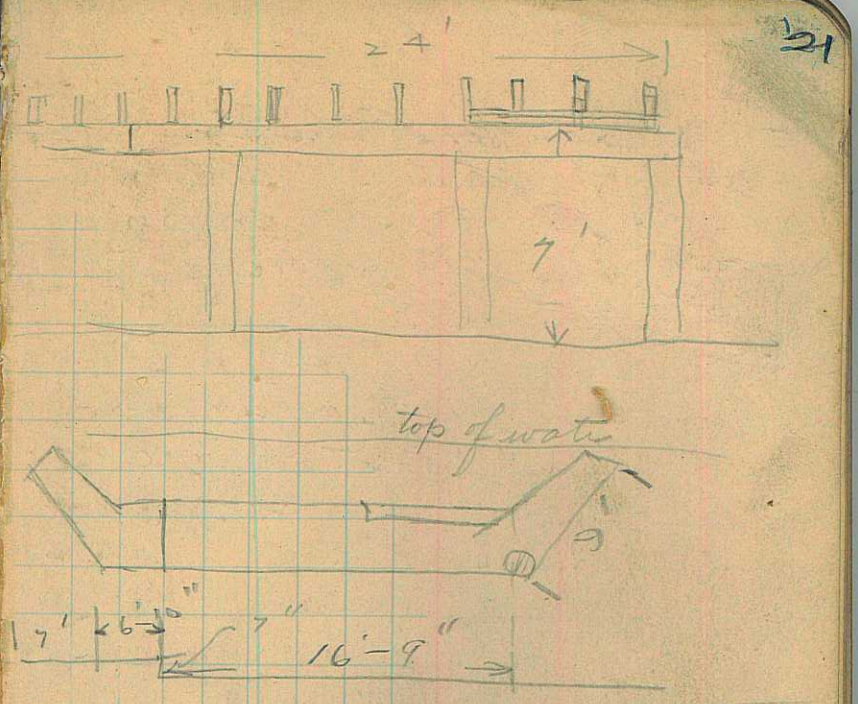
32
90 11
90 43
17 60
90 43
89 17
32
89 49

(8.08 ch to side st)

Set it at pt 4.367 ch on BS. to both cor of sd cor 1.
to brow of hill (stake)

to fence E side road
to stake on Divi. fence line
to divi fence S
to " " N
{to pt .02 ch. E of Divi fence Rock
{marked 1/4 found moved.
to fence
{to Divi fence no rock found
{fell west of intersection post .29





Bill to D. C. Budgen
favor of Jas. E. Wilson Jr. $38.00

May 30/07

Lur for Cache Co.
Continued.

Beg again on random cor of Sec cor sec 13 T 11 N R 1 W.
which is 89°13' W from the S E cor sec 13 80.49 chains not (that set 5 links E of 2nd random cor.)

Dist	Cours	∠ angular	R
			90°20
0.23	N 27 W		
0.52			
20.13			
40.34			
40.10			
40.34		89°51	
0.15	N 89°24 E		
39.69			
40.15			
39.69			

Beg again at pt 40.34 N 27 W of random cor. which pt is the correct line Run E + W

over

8913
9020
17933

17960
17933
27

8913
9020
33

N 89 24 E
27
N 88 57 E
27
89 51

B S to S E cor sec 13
to large post said to be cor
to fence going west
{to line fence Run E + W
{ fell 0.105 E of fence R N + S
to center line
to fence S. side of Road Run E & W on merid
check within 1' fell .015 ch N. of 1/4 cor
to E side road on the N.
to in line with W Side Road N + S.
to " " " E side " " "
{fell .24 N of S side of 1st + .26 S of N
{side St.

Dist	Course	angle L	angle R
~~40.34~~	N27°W		
0.267			
~~20.15~~			
20.15			
30			
~~39.31~~			
39.31			
39.80			
39.80			89°43'
40.29			

90 30
S 89 24 W
1.06

S 1°06' E
89 24
90 30

.045
80
.11200

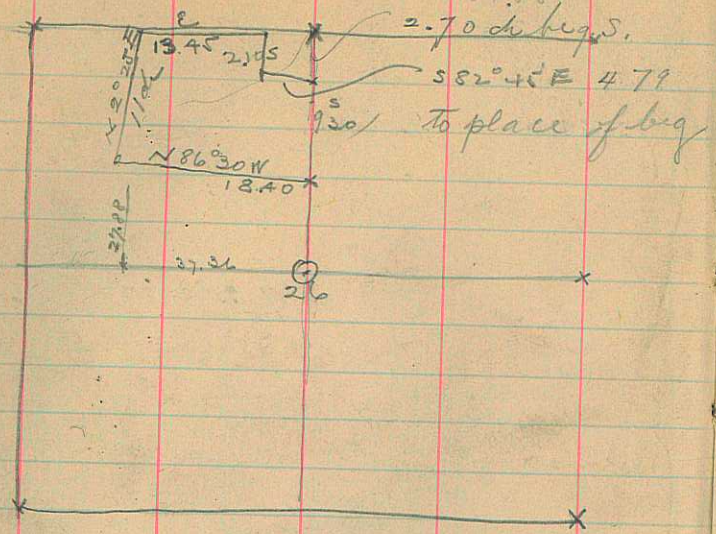
1.00
.02 38 49 35 14 90 35 1.06 29 25

start to pegover
{to in line with the N side St. R. E+W
{fell .35 E of W side St + .14ch W of E side St
to in line with div. fence on the W
{fell 38 link E of W side Road
{and 10 " W of E " "
stake S side Co. Road
{to center stake of ~~old~~ New Road
{This center stake is pratically on S. Side of old Road Hanson Survey
to cen line of New Road

{to old cor hid fell .17 ch East.

Note: Set on Mon. 1/4 cor of Sec 13
R 90°30 fell S. on W 1/4 cor about 19 links
{set on S E cor of 13
{angle R 90°35' to Post 2d to the cor. S 89°29' W
Set at a pt 1 link N of S E cor 13 R 90 29' to post as above

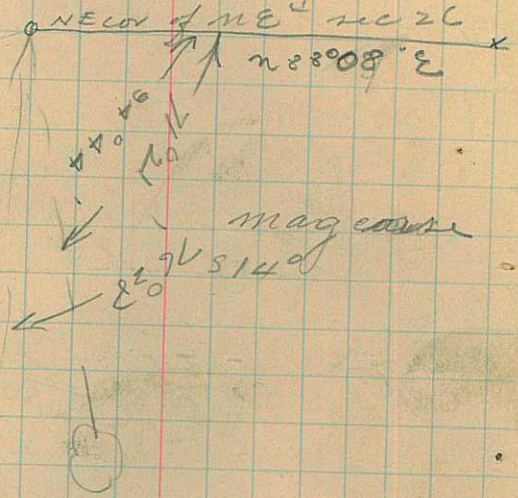
270
930
1200
27.88
39.88



.992
4.79
8928
6944
3968
4.7568
13.45
18.40

~~No 1. Ob. for H. Stuart~~
~~h = 69° 36'~~
~~Time .17~~
~~L R from NE cor 26 71° 21~~

No. 2
h = 70° 00'
Time 7 12
L R 76° 28



No 3. h = 70° 14
L R 80° 11'

Sur for Hugh Stuart Clarkston

Beg at NE cor Utah of NW¼

Dist Course ∠ and R

3.85 N88°10'E

14.65

40.03

Beg at SE cor Lot 26

40.17 S88°1'W on random

64.17 " " 2°

80 No definite cor found

Beg again on the NE cor of NW¼ Sec 26 T14N R2W

∴ FS to NE cor Sec 26 90°21

S1°31'E

Then

3.29 E 1

3.50

3.58

Beg again NE cor of NW¼

18.20 S88°8'W

18.40

19.27

∴ Thence S2°25'W with reference to sec line

3.58 — 3.50 — 21 — 3.29

10.68 — 4

14.65 — 10.68 — 3.97

14.65 — 3.85 — 1080 — 4 — 10.68

8808 — 91.50 — 79.58

8808 — 1834

8808 — 90.21 — 17829 — 1026 — 8808 — 2218

17960 — 17829 — 131

19.27 — 18.40 — .81

to cor

N88°8'E 40.03

to stone fill in S. in lot, town site

Magvar 17°,5' E

Note: This NE cor of NW¼ bears S2°18'E 8.30 ch from SE cor of footing of here stone marker as per Butler's plan Sept 5, 1882

to ¼ mi S.

N.N88 S 40.17 stone .04 210 ch

To fence on S.R.S. 17.08

H Stuart SE cor

to on N R R

to Stuart's NW cor

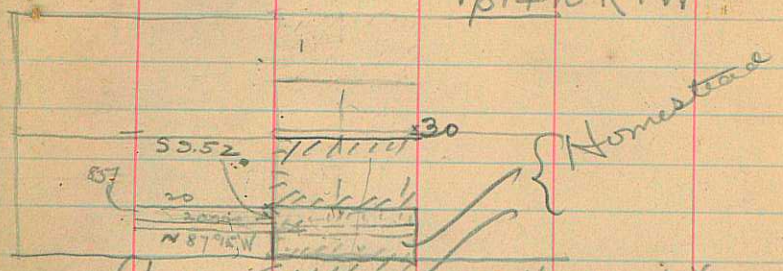
to " cor of fence

S

Sur for Hugh Stuart
con

R

Tp 14 n R 1 W



Lot No 4 of SE¼ of SW¼
and lot 1 of NE¼ of NW¼
area ~~159.76~~ recorded
also

Beg. at the NE cor of SE¼ of
SE¼ Sec 25 Tp 14 n R 2 W.
S 9.52 chains to center of Co Road
n 87°15' W 20.02 chains,
n 8.57 chains
E 20 chains to beg
containing 18.08 acres.
not recorded

4 (94
23

Beg at SE cor Sec 25
T 14 R 2 W

Dist	Course	Angles R
20	N	
40.20		
40.20 − 6'		90°40'
37.81	S E	

90°26'

to pin
to 1/4 cor.

to fence

66
600 66
594.09
60

90 40
14
90°26

.42
09
.3,30 78
31 2004230
180
156
240
234
60
00423
+1.1
1.51851
78 1.89209
3.62642
-00423

Lus for P Maugher
Beg at NW cor of SW¼
of NE¼ sec. 3

Dist	Course	L Angle	R
12.87	N		
12.59			
1.30	N		90
8.00	E	18°53	
33.3			
.505 h	S 45 22 W		3.54
	N 49 16		

FS to

23.4000
21 0771
232290
21 0771
2 1519

4876
4522
3.54

146 | 166
132 | 2.21
140
132
90 80
4522
13522

5.95
4.523
49°16
4.008 h

33.3 | 66
8 | .505
6300

1111111

66
8
528

614
54916 W
1230
354
1624

71°07

12.59
8
4.59

4.59
1.57

1853

4.59 | 1.57
314 | 2.92357
1450
1413
370
314
560
471
890
885
1050
1099

116.3
140.6
2269
75.61
297.91
47.27
339.18

2.92357
3.88
226.9
614.9

8960
71.07
1853
7107
8960

388.00
1163
504.30

528
504.3
23.7

.70257
33.3

5043

23.7

62.44

1.3
66
78
78
85.8
62.4
23.4

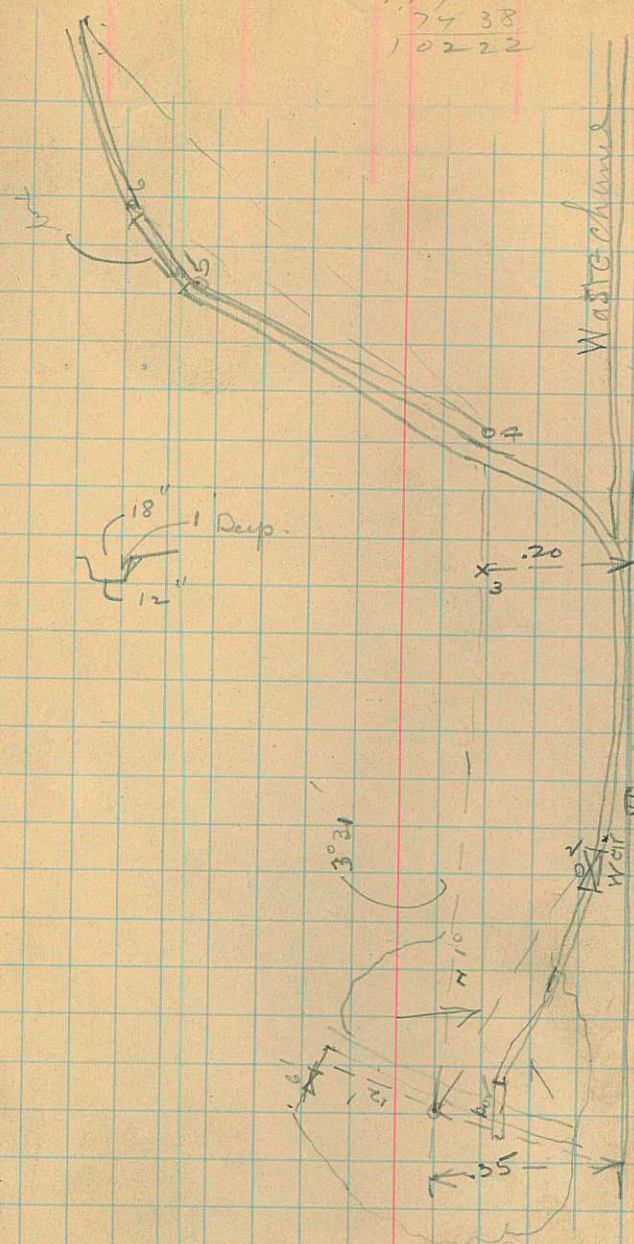
23.7 | 23.4
234 | 1.01282
300
234
660
468
1920
1872
480

Decs. for N.E. Neitzel

Begin at a pt 13.12 ch. N of SE cor of SW¼ Sec 32, Tp 11 N R 1 E. Thence
N 8.40 ch to the north bank of a water ditch.
Thence in a westerly direction along the bank of said Ditch 2 10 chains.
Thence South 6 40 chains
Thence in a south-easterly direction 3 chains to beg.
area 1 109/160

Spring diverted at a pt which bears N 77° 38' W 2443.3 ft from the SE cor sec 32. 2d Tp & Range

17960
7438
10222



See over

Lev for N. C. Neilson and

Last ch.	No.	Cours	L	R	HI
	1			30°42'	4.74
	2	n 30°42' E			
	1				
1.225	3	n 3°31' E			
	1				
1.632	4	n 3°31	59°41		5.00
	5	n 56°10 W			
	4		56°10'		
	6	n 52°35 W			
	4		44°21'		
	7	n 46°50 W			
	4		41°45'		
2.42	8	n 38°10 W	18°55'		
3.24	9	n 57°05 W		48°48'	
0.632	10	n 9°32 W		155°43	
0.208	11	s 32° E			
	10		30°10'		
3.18	12	n 38° W		39°43	
1.45	13	n 2° E		72°08	
2.05	14	n 73°35	140°04		
	14		68°26		

See over

3.18-2.5

Station	Angle L	Angle −	Angle +
	490 476		
on Spring			
490474	40°42'		

at weir

0.20 E to Litch

B S to No 1

5.42 5.00

5.495 5.00

5.93 5.00

5.965 5.00 47'

Which is SE cor of Neilson land

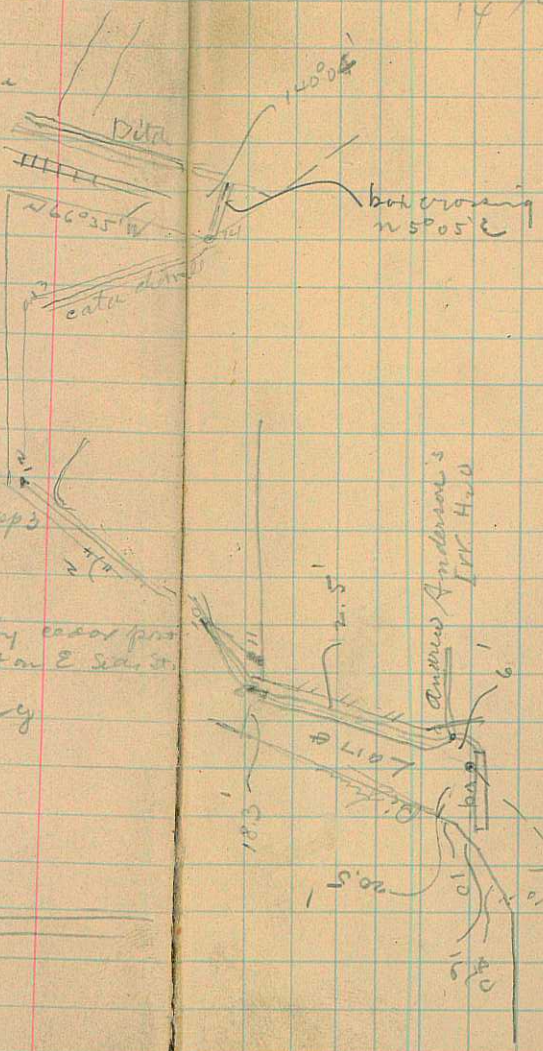
2.93 to end of data

14 is .015 ch S of S. Side of R.R. across Right of way. .80 ch wide More said lot 14 is also 5.8' n 66°35' W from Neilson E line.

Levels for Nelson

No.	BS	FS	im	Ele	HI	Remarks
	~~11.70~~					
14	11.70			79.15		on ground
13			10.55	80.3		" "
12			7.30	82.55		" "
10			2.36	88.5		in Ditch
9		1.205			90.85	" "
9	7.40			89.65		
8			6.28	90.67		" "
7			6.10	90.95		" "
6			4.77	92.28		" "
5			3.96	93.09		" "
4			2.88	94.17		" "
3		2.32			97.05	in Ditch opp 3
3	9.12			94.73		
2			7.20	97.25		
Dm			3.82	100.63		on Hub by cedar post E of spring + on E side st.
1			4.45	100.00	104.45	on Spring

8.21
8.05 in 25'



57.05
.60
14.05

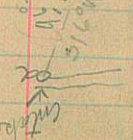
17.60
14.05
3.55

42 June 15/07

Line of Pipe line for Lewiston Sugarfactory.

Set on the SW cor Sec 12 Tp 14 N R 1 E

Dist	Course	L	R	Stake	
				U	L
			2°04	from Sun	
2420	S35°W	86°28	to Flagstaff		HI
2420		138°30	To Flag		
	N76°E				
	on a		115°11		
1+87	N67°50W				
	c				5.08
	d			5.08 5.71	5.08
1+87	N67°50W	19°41	00		
5+52	N87°15W	42°09	-1°14		5.00
6+40	S50°35W				
11.35			24°24 -1°11'		4.98
31.19	S75°W	107°57	-0°20		
0327	S32°50E				
31.19	N75°W				



7.55
10.20
17.75
8.64
9.11

8.30
7.55
.85

3.56 N

5.08
3.56
8.6
1°11'

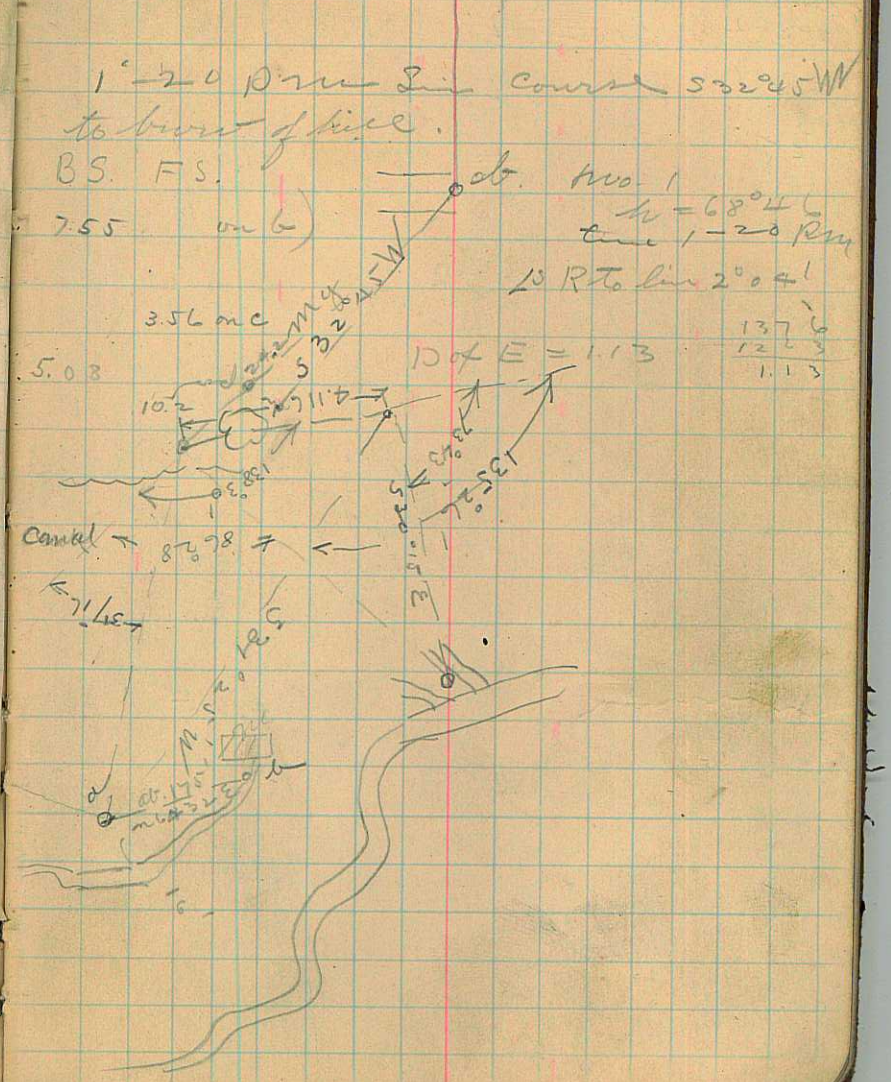
43

Road to Cove

1-20 P.M. Line course S32°45'W to bank of hill.

BS. FS.

7.55 on b



dt. No. 1
h = 68°46
time 1-20 PM
∠ R to line 2°04'

3.56 on c

5.08

D of E = 1.13

137.6
12.3
1.13

Canal

71 Lks

Dist	course	angle L	angle R	HI	Angles LS
0 327					
31.19		0.0	00	4.96	
32.00	n 75° W		61°09	4.84	-1°03'
37.85	n 43°45' W	03'		4.64	-1°28'
40.00					
42					-8°37
50					
60					
70					
80					-1°10'
90					
100					
113.50			09'		
113.50			09'		
113.50			40°32	4.74	
120					
130					
136				4.65	

136
11 3.50
2.25 0

5.50
4.46
.54

11.35
5.42
5.83

This pt is 6' lower

in coal

brow of hill

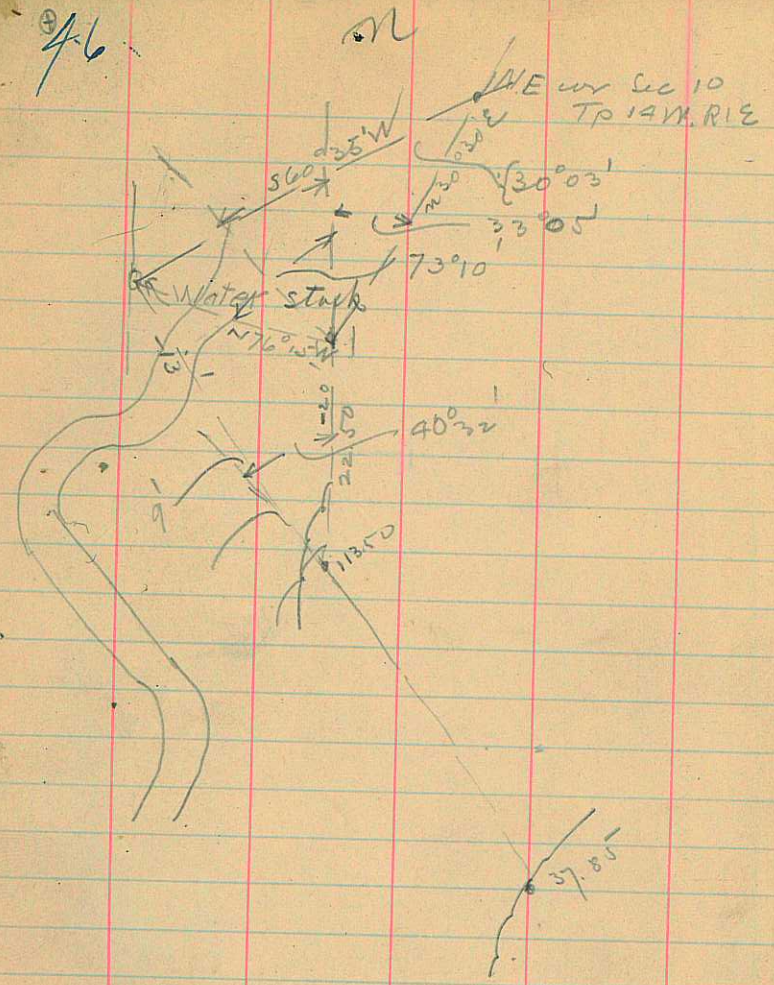
{ Which line will cut 1.5' S of SW cor Power Station

down slope

Cut from 37.85 to 42 -8°37
" 37.85 to -1°10'

to brow of hill. Cut River hollow to top of Water stack at factory (angle from 113.50 +1°19' to top of stack)

see over


N
W.E cor Sec 10
Tp 14 N. R 1 E
S 60 W
30°03'
33°05'
73°10
Water stuck
N 76°
40°32'
13.50
57.85

Lev for Leo Lingquist
June 17/07

Sta	BS	FS	VM	Ele	HI
0	6.03			100.00	
		5.425			
	4.38				
	10.41	6.910			
		12.335			
0				99.3	
0				100.00	
0				99.8	
				99.1	
				98.075	

Water Where test

5.83

6.52
1.66
5.85

Note 0.75 ch from Spring to Sill cor of House

By pass

mean d = 3 1/4"
8

Spec a
No. 3" 3"
2" 3"

flow in mains Lilterson West about 1/2 sec ft

98.07
1.92
9999

100.00
1.925
98.075

6.03
5.425
.605

605
12
1210
605
7.260

12
10.41
1.925

on Water which should be .20 Low

6.52
1.66
4.86

bottom of Lower cha
present H_2O
where H_2O should be
bottom a outlet overtis Chanel
H_2O at Hatchery in Creek

On the Water at Spring
on available tail H_2O
on head available
on floor in hatchery

H_2O measurement

fed to Hatchery

8'

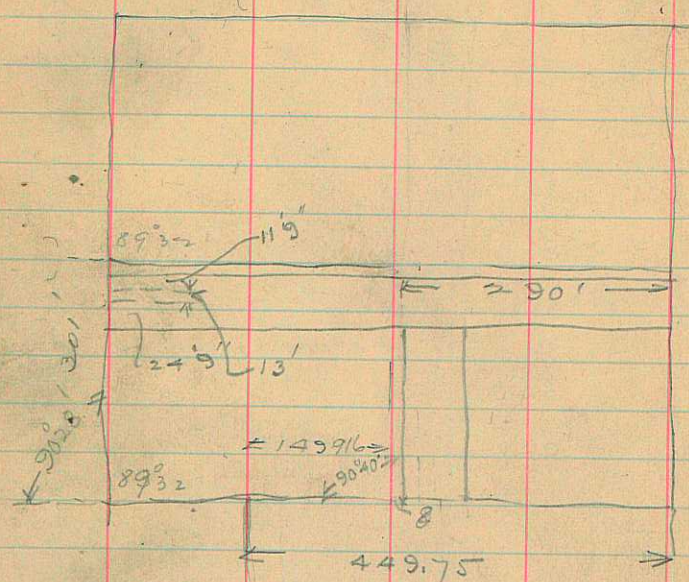
mean d = 5 1/2"
wrdch 7 1/4"

No. 1 Can 8"
7"
6"
7"

6.0

6/17/07

Sur for Logan City
in Blk 18, Logan City Sur



5

3 (44935
149.916
148350
1.002

17060
90228
89332

149.9
3
449.7

~~149.921~~
2
84

149.916
2
299.932

300.00
299.93
.07

4950
1175
75

379
119
6

Lev for Ed Anderson

Sta	BS.	BS.	FS	im	RR
0	2.40				
94.25#			~~3.21~~	3.21	on built
+93.8				3.968	
+43.75				4.77	
+43.75				4.367	on
				1.367	4.53

3.21
2.40
.6

5 3

on Curb 2nd cor Blk 3. Pl. B
on nail in post NE cor B.2.

grade
3.16 above top of 3.21

4.53
1.37
3.16

Stake

1.157
4.367

94.2
.00805
4710
7536
758.310

4.367
.5
3.867
2.50
1.367

3.21
3.968

Lev upp

Sta	BS	FS.	im	Ele	HI
16+87	1.6650			514.526	516.191
		11.770		504.421	
	1.390				505.811
26+54		5.23		500.581	
26+54		5.68	lowest pt grade	[500.131]	on grade
26+54	4.290				504.871
		2.59		502.281	
	6.16				508.441
31+50			6.992	500.99	
		see over			
31+50			7.916	500.525	
		check			
26+54	5.603			500.581	506.184
	5.100	3.660		502.524	

Blacksmith fork Lime 25/07

Center RR.	Center cut	R Rod RR	R Cut	R out	R fill	
						Burr on stiff weighted staff.
note: Grade should be 499.654						on the built grade this pt .45 high longer walked to first grade high
						to high
3.545	3.477					on grade
3.545	4.371					This Ele [illegible] on

Sta	Course	Angle L	Angle R	HI	RR or	
31+50			1°16'	4.52	7.96	
	N 72°05 E					

cut

BS over which line bears 570°55' W 30+00 + about 100 1

Sta	BS	FS	cm	Ele	HI	
31+50				504.896	507.624	
31+50			7.099	500.525		
31			7.1865			
			0875			
29+50			7.2740			
			0875			
29			7.3615			
			0875			
28+50			7.4490			
			0875			
28			7.5365			
			0875			
27+50			7.6240			
			0875			
27			7.7115			

RR on stake cut

on center stake cut 4.37

on grade

5.5 U 1.8

5.4 B

7.40

Sta	Course	Angle L	Angle R	on stake	RR or grade
31+50	N 72°05 E		1°16'		
PI 32+96			8°50'	4.38	7.98
33+77	N 81°15 E				
PC 32+52					
33+40					
33+77			7°42'	4.21	7.05

see over for cross section notes

cut

$E = R\left(\frac{\sec I}{2} - 1\right)$

3.6

E. = 1.7' Cur D = 14.31

10° R.

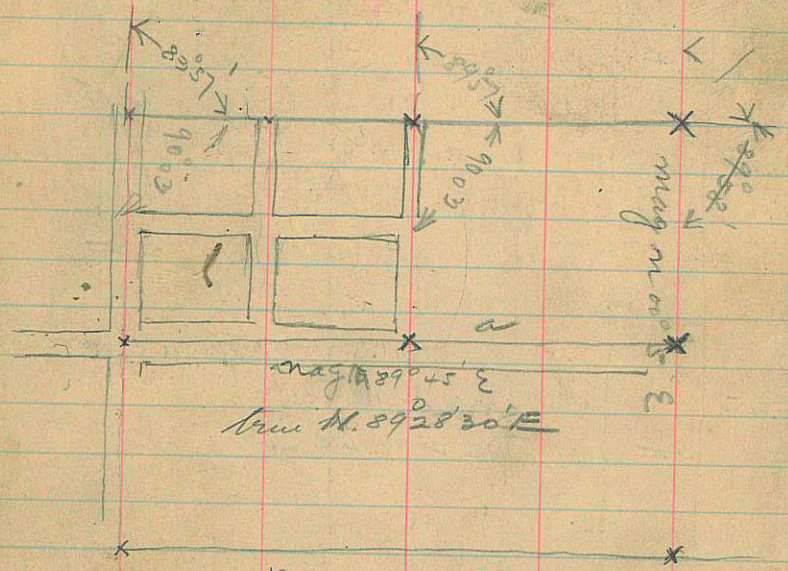
P.T. ⊗

2.84

Sta	BS	FS	rm on grade	Ele	HI
31+50	11.670		16.044	504.896	516.56
32			.0875		
32+50			15.9525		
32+96			.0875		
33+50			15.8650		
33+77			.0865		
33+77		3.653	15.7785	512.913	
33+77	4.750		.0945		
34+50			15.6900		517.663
35+00			.0472		
35+50			15.6428		
35+50+			16.7400		
36			.1277		
			16.6123		
			.0875		
			16.5248		
			.0875		
			16.4373		
			.0875		
			1.690	515.973	
			16.3498	501.314	

Centers Rod R	C. Cut	R Rod R	R C.	R out	C fill	
	4.37	4.30	11.7	9'		
13.	2.9	5.20	10.7	10'		
13.46	2.4	5.20	10.5	10.5'		
11.18	4.6	2.6	13.2	11'		on curve
11.72		3.87	11.8	11'		
11.68	3.96	3.653	11.990			TP
						on R cut
17.58		8.57	8.04	11.5'	1'	
17.25		8.60	6.94	11'	0.7'	
13.	3.4	4.25	12.2	11.2'		
						edge of large rock on small projection on
10.27						on grade

Lus for Lewiston School Dist.



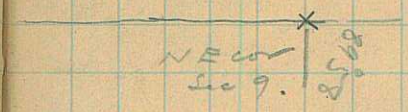
Beg at N E cor Sec 8. Tp 14 N R 1 E

Dist	Course
10.90	S
12.33	S
22.43	S
23.17	S
23.93	
23.49	S

Beg at N E cor sec 9.

No 1 Ob 23 ch S of NE cor Sec 8 Tp 14 N R 1 E
Ob 3 pm
h = 54°19
L^S L to long line a 160°32'

No. 2 3 pm
h = 53° 30'
L^S L. = 161°44



June 29/07

* on lat 41°58'24" N.
long 111°50'42"
D = 23°15'57"

to in line with N Si. St R W
" " " " S. Si " " "
" — — N " " — —
To pole

to N line Sugar factory Road

$\frac{23.93}{23.17}$
76

60.0

Beg at pt 23 ch S
of NE cor sec. 8 Tp 14 N R1
~~E of Spring~~

11.25 S89°45'E
22.25
17.75

16.5
24
660
330
396.0

396.06
38
358

40
24
16

61

22.25
2.50
17.75
6.50
11.25

to center of St.
to center of St.
to in line with W side Bldg.

Sur of Drain at Preston 1/8/07

Sta.	BS	FS	HI	Ele	HT
0					
+50					
1 00					
1+36					
1+85 40					
2+28					
2+63					
12+88	9.766			100.283	110.049
19 ch			7.113	102.956	
17 ch			2.93	107.126	
12.88					
12+50					
12					
11+50					
11					
10+50		2.721		107.328	
10+50	5.426				112.75
10+00					
9+50					
9					
8+50		4.66		108.094	
8+50	5.656				113.750
8					

Rod	Rod Hab	Cut
10.0499 1142		
9.9070 .1863	8.38	1.53
9.7207 .1863		
9.5344 .1863		
9.3481 .1863		
9.1618	2.721	6.4408
11.8668 .1863		
11.6805 .1863		
11.4942 .1863	3.46	8.03
11.3079 .1863	3.83	7.48
11.1216	4.66	6.4616
12.1176 .1863	5.656	
11.9313	5.50	6.43

11+22 Hub

pt of L^S 0.3727 / 0.1863

old Stake lower end

100.283
9.766
110.049 | 110049
2.93 | 7.113
107.119 | 102936
107126 | 991
107119 | 838
.007 | 1.53

9.16
2.72
6.4408
5.426
11.8663
8663

11.49
3.46
8.03

11.31
3.83
7.48

11.1216
6.4616
5.6560
12.1176
11.9303
5.50
6.43

Sta	BS	FS	HI	Ele	HT
8					113.75
7 +50					
7					
6 +50					
6					
5 +50					
5					
4 +50					
4					
3 +50					
3		1.910		111.84	
3	3.35				115.19
2 +50					
2 +25					
1 +85					
1 +26					
1					
0					
		8.213	10.013 / 5 / 10.50		

113.75
1.49
11.85
15.19

185
136
.49

.372.40
149080

.3727
50
.186350

66

R Gr	R Hub	Cut	
11.9313	5.50	6.43	✓
.1863			
11.7450	6.13	5.61	✓
.1863			
11.5587	6.38	5.18	✓
.1863			
11.3724	5.50	5.87	✓
.1863			
11.1861	4.96	6.22	✓
.1863			
10.9998	4.42	6.58	✓
.1863			
10.8135	4.30	6.50	✓
.1863			
10.6272	4.65	6.00	✓
.1863		6½"	
10.4409	3.64	6.81	✓
.1863			
10.2546	2.9	7.35	✓
.1863			
10.0683	1.91	8.1583	✓
11.5083	3.35	8.1583	✓
.1863			
11.3220	3.30	8.02	✓
.0932			
11.2288	3.50	7'8 3/4	✓
.1491			
11.0797	3.77	7.31	✓
.1863			
10.8934	3.92	6.97	
.1341			
10.7593	3.71	7.04	
.1863			
10.5730	2.57	8	
.1863			
10.3867	2.03	8.35	

11.9313 109.589
5.50
6.43

11.74
6.13
5.61

11.56
6.38
5.18

11.37
5.50
5.87

11.18
4.96
6.22

10.99 11.00
4.42
6.58

10.81
4.30
6.50

10.65
4.65
5.98

10.46
3.64
6.80

10.25
2.9
7.35

12.88
2.00
8.88

10.0683
1.91
8.1583

11.32
3.30
8.02

11.23
3.50
7.73

10.89
3.92
6.97

11.08
3.77
7.31

10.75
3.71
7.04

10.38
2.03
8.35

10.9.87
8.16

.3727
.25
186635
74540
.09331

107.328
5.226
102.754
5.12
109.634
109.589
.0045
.22
.22
.22
.44
.44
.22
.44

112.754
4.66
108.094
5.656
113.750
10.441
103.309
.3727
.888
29816
29816
29816
3.3095 76

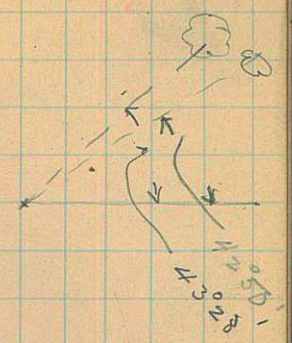
top floor in School
top of 4" pipe

Sur for Nephi
Miller June 11/07

Set at a pt. 88 ch W of center RR track and 10 ch S of NE cor lot 5 Blk 11. Logan Island Sur
I begin at as above des.

Dist	Course	Angle L	Angle R
10.45	N 88°50 W	90°16'	
10.50	" "		
10.23	S 30° W	58°35'	
11.12	S 53° E		6°07'
1.80	S 51°45 E	59°55	
0.33	N 68°10 E		
1.80	S 51°45 E		47°43'
0.506	S 4°15 E	63°36'	
1.15	S 67°50 E	61°00'	
2.895	N 51°10 E		156°38
U 5.91 L 5.20	S 28° W		
2.895	N 51°10 E		138°06
U 5.76 L 5.20	S 9°20 W		
2.895	N 51°10 E		121°05'
U 5.60 L 5.20	S 7°45 E		

see sketch 10.68



time 4 o'clk
ob. h = 10°22 No 1
ob h = 9°55 No 2

proposed Road
of 34 ft. to fence on west side of
to average E Bank
to pt as decided on by Miller & Co.
to west bank slough

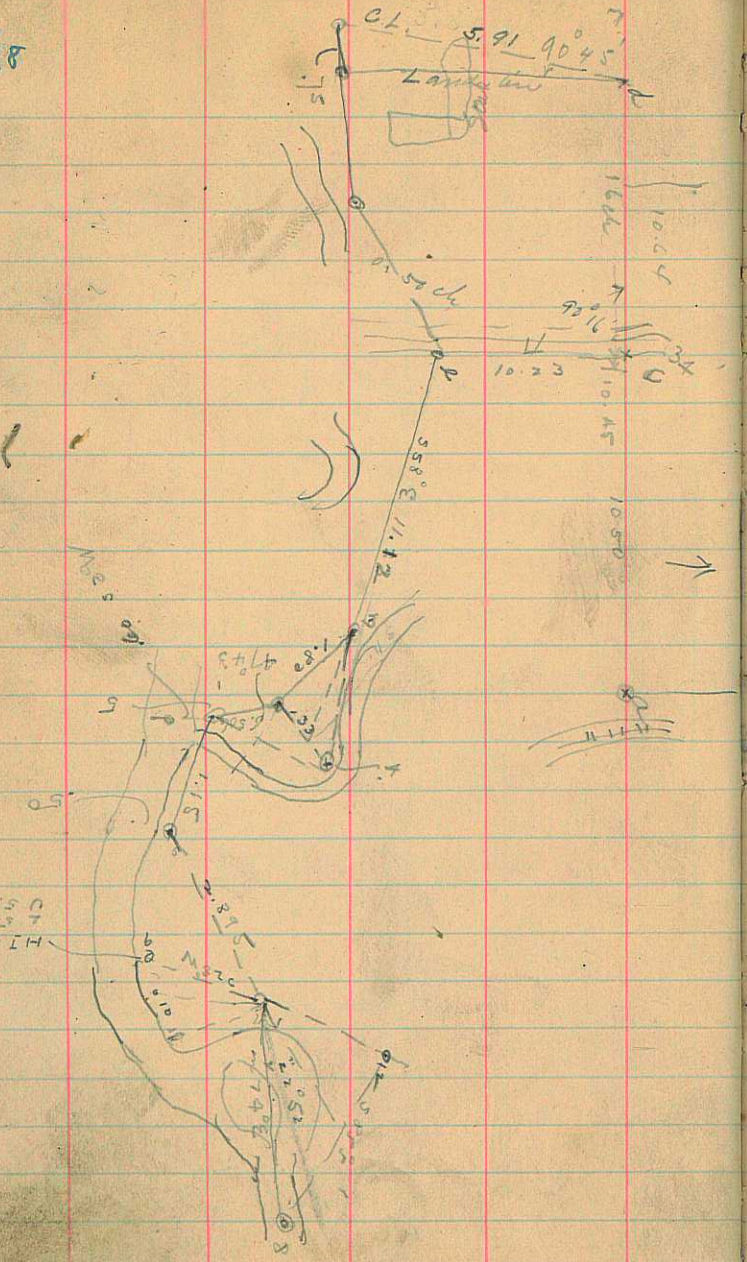
end of this line is No 4 from 3 to 4 a Stake

to River Bank No 5

H.I. 5.20
to 9

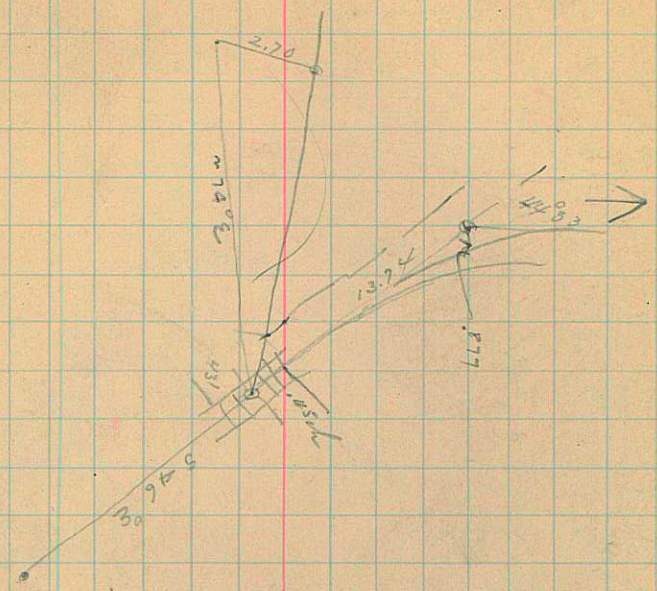
To 10

To 11



90
6 0 7
1 7 9 6 0
9 6 0 7
8 3 1 3

1065
1.8
8 5 2 0
1 0 6 5
1 9 1 7 0



50

Dist	Course	angle L	R
2.895	n 51° 10'		22°52
X	n 74° E		
2.895	n 51° 10	26°53'	
2.70	n 24°20' E		70°25
5.03	S 85°05' E		
		(magat)	(⊙ 54°3' E)
5.80	S 85°05' E		40°28'
15.922	S 46° E	16°35'	
12.77	S 59°30' E		
5.80	S 85°05' E		
0.45	n 46°/2 W + -		
13.74	n 44°20' W		44°33
4.34	n 5° W	89°04'	
.862			

Beg. again
at pt. n 88°50' W from pt a
BS along line of 10.45
90°12

10.64	S 88°45' W	
16.00	" "	90°45'
	S 2° E	Set at pt 16 cl w of C BS to C
		83°28'
5.91	S 5°28' W	18°55'
4.74	n 87 10' E	20°21
11.85	S 72°05' E	

53 | 17960 | 24433 | 2 | 135 27 | 67 43

46 35 | 62 35 | 287 43

50 70 | 26 53 | 24 17 | 67 43 | 44 33 | 112 16

5.80 | 77 | 5.03

8505 | 8465 | 40 28 | 44 37

center of River
to pt on center of RR bridge also

to 1 —

{to end of fence at River and 50 at L of center RR dock

to center of bridge
along RR track
to 1/2 cor Post near Sugar Work

along center of track
R. 112°16 Ex secant. Dist = 0.877 ch
to in line with N side of tract.
to beg.
Note: the stake S was found + also 2' N of pt 10.45 n 88°50' W of the

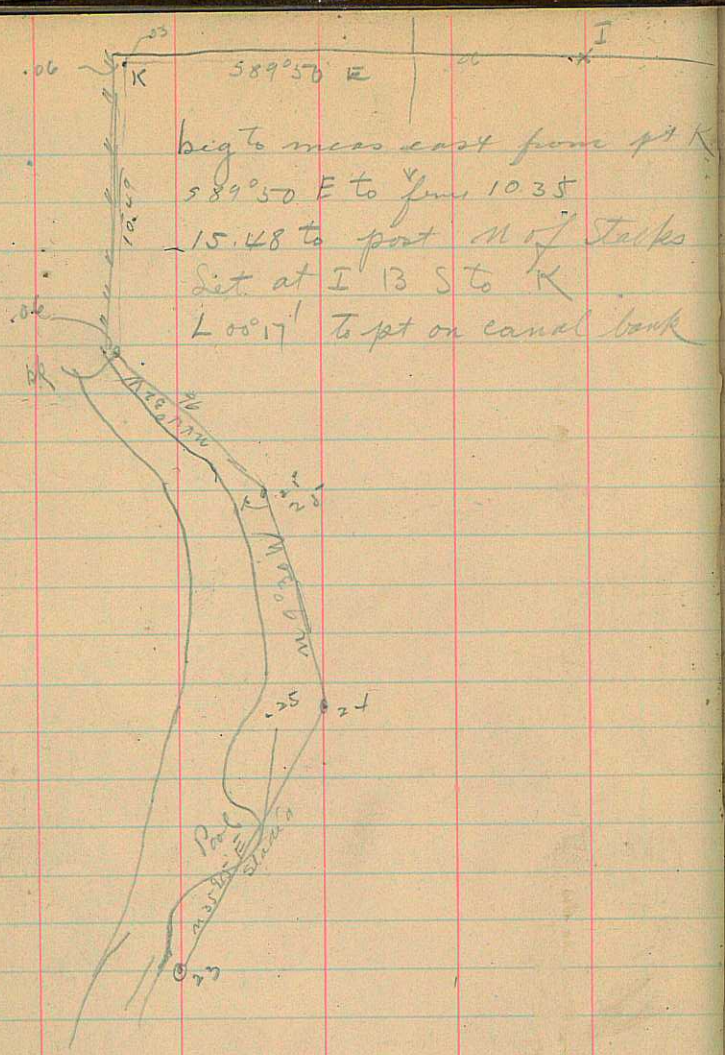
to find N & S
to post on decided line
along decided line

to post ∴ land Dist = 4.74 - .75
to pt x on Canal Bank

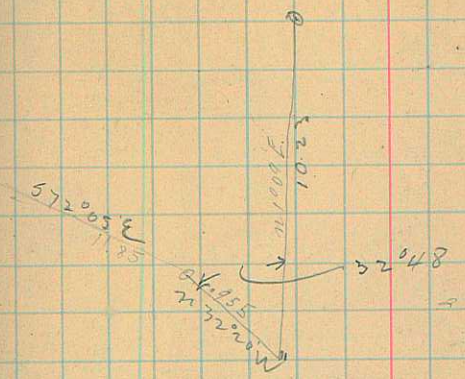
Set at pt S of Hay stack wich is 75 ch E of F S to g

Dist	Course	Angle L	Angle R	U	Slope L	HI
			91°38			
9.05	S1° E		105°40			to bank River
3.53	N75°30 W	65°26				
7.17	S39°30 W	00	00			
4.00	S39°30 W	12°52				along NW bk River end of line 75 ch E of River
4.35	S26°05 W		122°11			
1.00 (15	N31°10 W	97°30				5.16
16	S51°30 W			6.15	5.16	
15	S84° W	64°54		5.96	5.16	
17		8°20				
18	N39°35 W			5.76	5.16	
1.00	N31.10	00	00			
3.ch	N31.10 W	43°12				
2	N74°30 W	36°06				
2.60 19	S69°35 W	53°30			~~4.90~~	4.90
20	S11° W			5.645	4.90	
19	S34°10 W	35°17				
21				5.57		4.90
19	N79°30 W		31°15			
22				5.50		4.90
4.70 19	N8°15 W		102°21			
23			43°49			5.06
24	N35°45 E	44°49		5.06	4.243	
1.77 25	N9°30 W	35°19				
.46 26	N44°32 W		45°10			
10.49	N30° E		89°21			
10.52	S89°50 E					

Other pt is 6 link S E of fence to pt line E + W



big to meas east from pt K
589°50 E to fence 10.35
15.48 to post N of stake
Set at I 13 S to K
L 00°17' to pt on canal bank



$$h = \frac{v^2}{2g} + f\frac{l}{d}\frac{v^2}{2g} + m\frac{v^2}{2g}$$

$$hd2g = dv^2 + fLv^2 + dmv^2$$

$$hd2g = v^2\left(d + \frac{f}{d}L + dm\right)$$

$$\cancel{hd2}\ h2g = v^2\left(1.5 + \frac{fL}{d}\right)$$

$$v = 8.02\sqrt{\frac{h2g}{1.5 + \frac{fL}{d}}}$$

$\sqrt{64.32}$ = 8.0 ; 64 ; 32

160

38.5 ; 1.16

π) 31.416 ; .785

1841
84
19.25
.02
38.50 ~~1.16~~
1.5
40.00) 1.16

log 40 = 1.602060
log 1.16 = 0.064458
1.537602

log 20.6 = 1.313867
1.537602
2) $\bar{1}.776265$
$\bar{1}.888132$
log 8.02 0.904174
log v = 0.792306

472.94
13.54
486.48
7.08
479.40

7.
1.06
594
400

507.63
6.37
501.06
7.5
493.56

log hm 52' = $\bar{2}.179713$
594 2.773786
0.953499

.02181
200
4.36200

8.98
9

493.56
9
48456
436
480.20
.75
479.45
28.46
450.99
479.45
686
472.59
.35
472.94

479.40
4
483.40

479.40
8.93
488.33
14.56
473.77

.00378
200
.75600

~~.07116~~
~~400~~
~~28.46400~~

.01716
400
6.86400

488.33
360
484.73

484.73
484.2
.5

500
479.40
10.60

log v = 0.792306
log 1.34 = 0.127105
0.919411
log .7854 $\bar{1}.895091$
6.52 0.814502

1.16
1.16
696
116
116
1345

500.00
493.56
6.44
.7
5.74
5.70

1190
3.02

400
380
3.02

20.60) 1925
1.

363 $6\frac{1}{2}$

4.79.4
363
116.4

9841

9,963
1841
8122
.02
162.40

Log 38.50 = 1.586461
Log 1.16 = 0.064458
1.522003
= 33.27
1.5
34.77

Log 20.6 = 1.313867
Log 34.77 = 1.541205
2) 1.7726 62
1.886331
0.904174
0.790505

Log 8.02

$v = 8.02 \sqrt{\frac{116}{1.5 + .02 \times 8100}}$

8122
.02
162.44
1.5
163.94

Log 116 = 2.064458
Log 164 = 2.214844
2) 1.849614
1.924807
0.904174
0.828981
Log 7804 1.895091
0.724072
5.30

116.00) 8100
8100) 1.43
35000
32400
26000

116.00) 8100
8100) 01.43
35000
32400
26000 1.43

Width 15'-6"

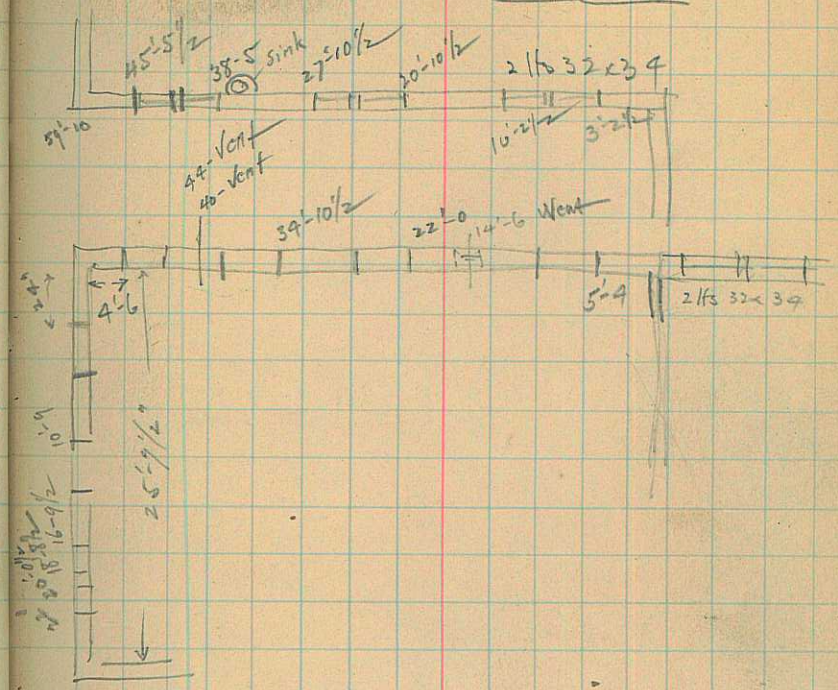
4'-8

20'-10"

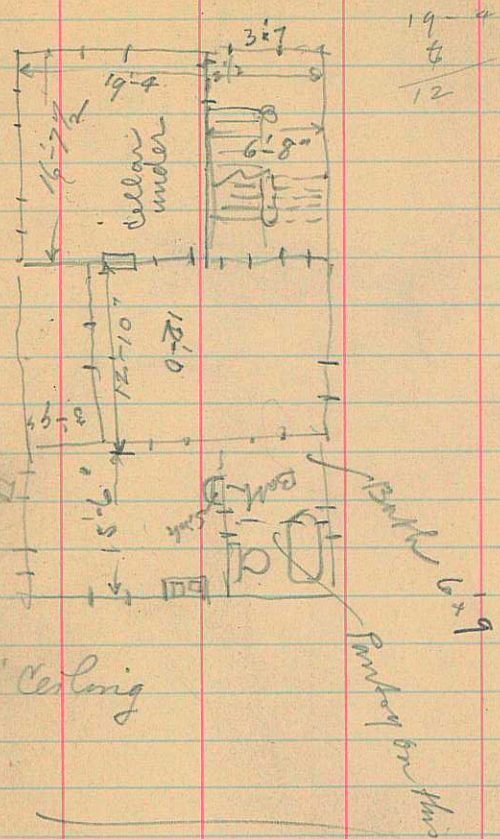
10'-5"

Co-Op. Drug. Oct 7th 1912

Commercial Block 89

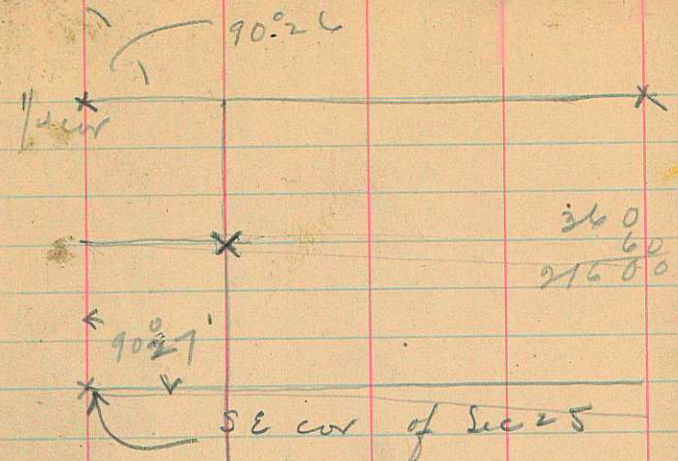


Mrs Sloan Oct 12-1912



19'-4
4
12

Basm. Wd. Frame Drs. Sandy
under Diag. 9'-10" x 2'-10"



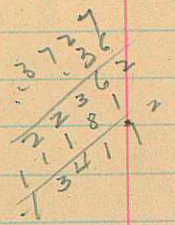
360
60
21600

47
40

4 | 89'
22.25

6.40

43
2
45'
11.25



6.85
5.85

107.047
104.897
2.150

6
9.35

9.1618
2.721
6.4408

110.049
2.721
107.328

49.6"
73.4"
29
151 10
49.6
102 4
10.68

165
20
3300

329 12
15 10
178.2

22.12
22.65

1 inch ⊗ 25.88

25.88
11
36.88

3300
93
52
67.5

16.56

20.00
36.56
344

10.68
25.88
36.56
10.68

16.56
22.65
39.21

16.56
22.12
38.68

930
270
1200

67 160
70 1.1 10750
.100750 .15
3600

62.5
.15
3125
625
9.375
20
187.500
16.50
2250
2200
500

15.50
.34
90
.3060

20

20.00
50.00
52.00

20.00 80.3
1606.2478
3940
3212
6280
5622
6600

9150
1.25
9025

15
30
4.50

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

35.5
35.5
1775
1775
1065
1250.25

33
33
99
99
1089
1250.25

√2339.25 = 48.21
16
88
8
462
2
7441

739
724
1525
1424
10100
7

48.21
12
42
2
2.52

12° curve

PI. 19°22'

Log 50 = 1.69897
T.01912
0.67987

= 47.85

Log 0.67987
T.22557
1.90544

Tan = 80.43

1000
9858
.0142

Log R = 2.67987
Log .0142 2.15229
2.83216

6.8

6° curve R = 956'
Log R = 2.98044

8° I = 11°59
T = 7.53
M = 4'

.1681

1732
1687
45

515.206
0.96
516.266

2.2
12.
14.2

517.216
19.4088
4978072

517.216
.91
575.206

18.23
.42

2.25
12.00
14.25
17.50
31.75
27
2 | 29.05
14 5

1940
1.91
17.49
175
85
875
1400
1.58875

517.216
19.4088
907.8072

516.266
497.8072
18.4588

175
30
05250

31.75
5
2 | 31.25
15 6
4

31.60
6.50
2 | 25.10
12.50
4

175
45
875
700
.07870

18.31
.41
1421

31.60
6.85
2 | 4475
1 2 37
5

18.23
8.02
2 | 10.21
5
4

18.23
6.66
2 | 11.57
5 7 8

12.
2.1
14.1

18.27
14.1
4.17

12
5.9

18.18
17.9
.28

18.1789
11.104
7.0749

1.68
6
7.68

18.25
11.2
2 | 17.0
3 5
5

8.42
7.68
.74

4.5
3.5

17.32
6.
11.32

I I

T. c

59 710 1.2

470 47.

940

273

6.67

13.4

710

36

1.20

2°10'

S 4°40. = .0814

90

7.3260

43 6°40 .11.61

4

40

4 | 89

2.225 7°40

80

9.2880

13.6

9.28

4.32

.1334

15

6670

9338

10.0050

13.6

10.0

3.6

19.59

41

1549

7.74

5

510.463

5.36

515.823

4.9683

18.993

175

53

525

875

.09275

175

62

350

1050

.10850

517.216

191

515.306

115'

6°46

.11178

115

5580

11178

11178

13448 0

4.60 | 0115

460.0

517.216 2.763

191 1.338

515.306 1.328

16.78

×

511.940

14.334

497.606

16.8

31

13.7

13.6

0.0349 = 2°

17

.0366

85

1830

2928

3.1110

511.940

2

511.740

5.476

517.216

497.606

19.610

3.60

5

3.55

~~149~~

19.00

1.9

17.50

517.216

497.606

19.610

1200

439

1639.19

19.50

16.4

1950

963

9.87

4.98

5

10.5

8.5

42

5

18.42

175

9210.

12894

1842

3.22350

495.013

3.223

498.236

May 9/07

Agreement.

Copy

43
2
45
44
489
22.2

We Joseph Monson, James I. Shepard, D. C. Budge, Thomas Daniels, ~~and~~ Eugene Schaub and Karl Schaub agree to pay. Barnard White Ten and 00/100 dollars ~~for all land owned by the said Mr. White, over which shall be built a grade to construct upon it, a pipe line for Power Purposes.~~

516.266
11.104
505.162
3.550
508.712
10.485
498.227

10.48
8.46
2.02

3.550
7.075
10.625
8.50
2.125

17.530
.5250

516.266
1.74
514.526

10.62
2.15
20.47
4.23
5

10.48
3.35
27.13
3.56
5

516.266
11.104
505.162
3.55
508.712
10.485
498.227

.1842
.00175
9220
12894
1842
3.22360
495.013
498.236

per acre as ~~shall be~~ form a right of way 1 wide enough to construct up it a grade for the purpose of laying a pipe, for power purposes. Said right of way running over the NE¼ sec. 11 Tp. 10 N R. 1 E.

The said Mr. White Reserves the right to travel over said pipe at pratical points.

Eugene Schaub
Engr.

7.96
2.75
5.21

12.36
5.21
19.57
17.36
2.21

17.36
9.45
2) 7.91
3.95
5

2) 1.75
.0875

12.00
2.85
14.85
17.3
7.1
2) 10.2
5.1
5

17.19
3.45
2) 13.74
6.87
5

17.19
11.40
5.79

17.27
14.85
2.42

.82
.25
.57
11.37
11.94

17.09
.8
2) 9.09
4.54
5

.175
.57
12.25
.875
.09975

12.195
13.95
17.09
13.95
3.14

12.00
5.25
17.25
16.91
.34

12.00
4.6
16.60
17
10.18
2) 6.82
3.41
5

17.00
1.66
4
17
9.42
2) 7.58
3.79
5

16.00
9.00
2) 7.00
3.50

175
62
350
10.50
.10850

12.00
3.30
15.30

16.80
8.90
2) 7.90
3.9
5

16.80
.97
2) 7.10
3.50
5

97

175
126
1050
350
175
.22050

16.80
15.30
1.50

514.193
16.8075
497.3855

16.8075
.9702
7.1055
7.449
14.5545

511.94
498.1055
13.8345

511.940
497.3855
14.5545

1.433
.692
7.41
.67
2) 14.33
7.16
5

1.433
2
14.13
5.476
19.606

511.94
.2
511.74
5.476
517.216

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MANUFACTURERS & IMPORTERS OF
DRAWING MATERIALS AND
SURVEYING INSTRUMENTS
NEW YORK. CHICAGO.
NEW ORLEANS & SAN FRANCISCO

7.10
5.94
1.16

19.21
9

19.30

18.30

6.6
.10
6.60

33
33
99
99
1089
1084
2138

466

1487
15
1602

3.25
2.7
0

86
6
926

578
516
6200
5556
644

37.94
11.9
496

.0407
2640

.0407
2640
162840
24426
8142
107.4480

8960
25
8735

5.84
1.84

14.02
1.86
2.16

8213
1.80
10.013
.45
10.463

4
4

115.19
10.46
104.73