150

MINING
TRANSIT BOOK
363 A

Barnett Ditch

	2 St'k.	H.I.	Cut.
63+0		88.31	
67+0		82.79	
71+0	96.43	89.27	7.16
75+0	97.86	89.75	8.11
79+0	98.85	90.23	8.62
83+0	98.43	90.71	7.72
87+0	98.84	91.19	7.65
91+0	99.18	91.67	7.51
95+0	100.17	92.15	8.02
99+0	100.60	92.47	8.13
103+0	101.30	92.79	8.51
107+0	101.50	93.11	8.39
111+0	101.95	93.43	8.52
115+0	101.69	93.75	7.94
119+0	104.13	94.07	10.06
123+0	103.31	94.39	8.92
127+0		94.71	
131+0		95.03	
135+0		95.35	

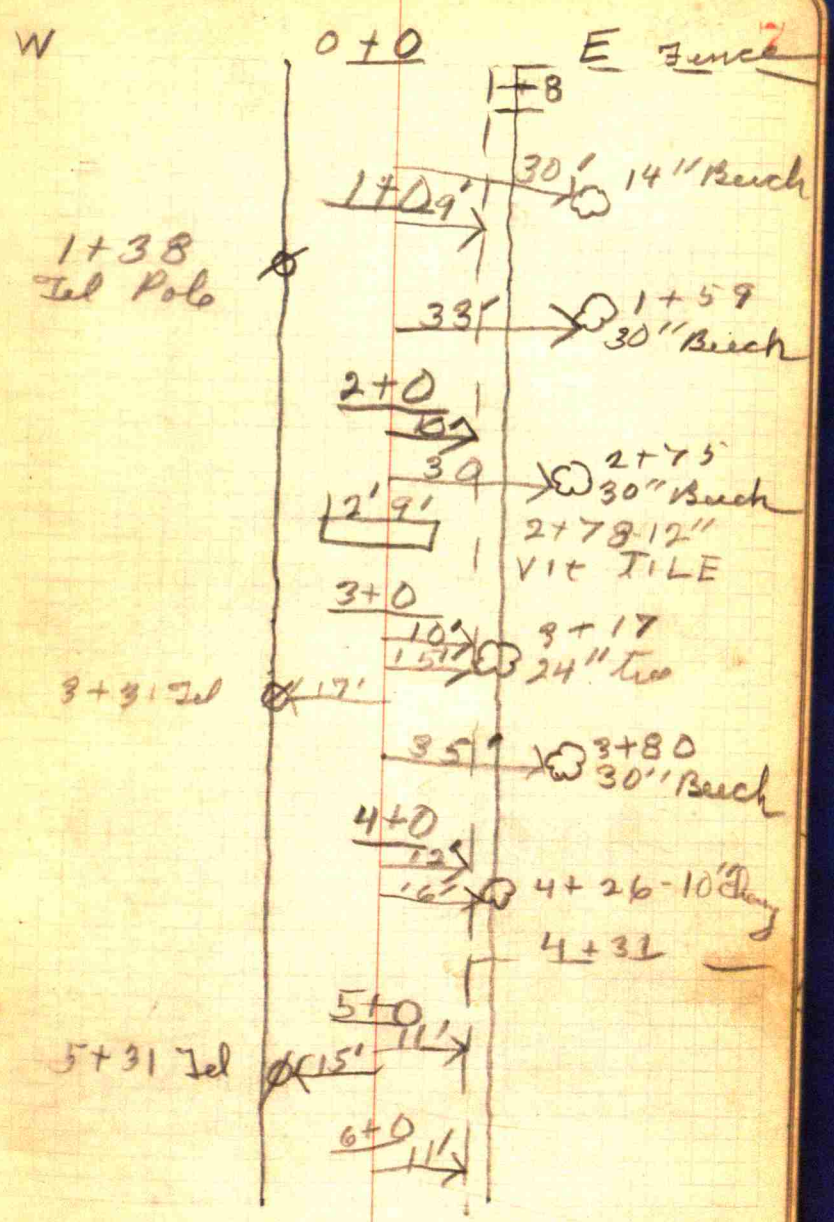
95.73 ⊙
98.27 ⊙
103.84 ⊙

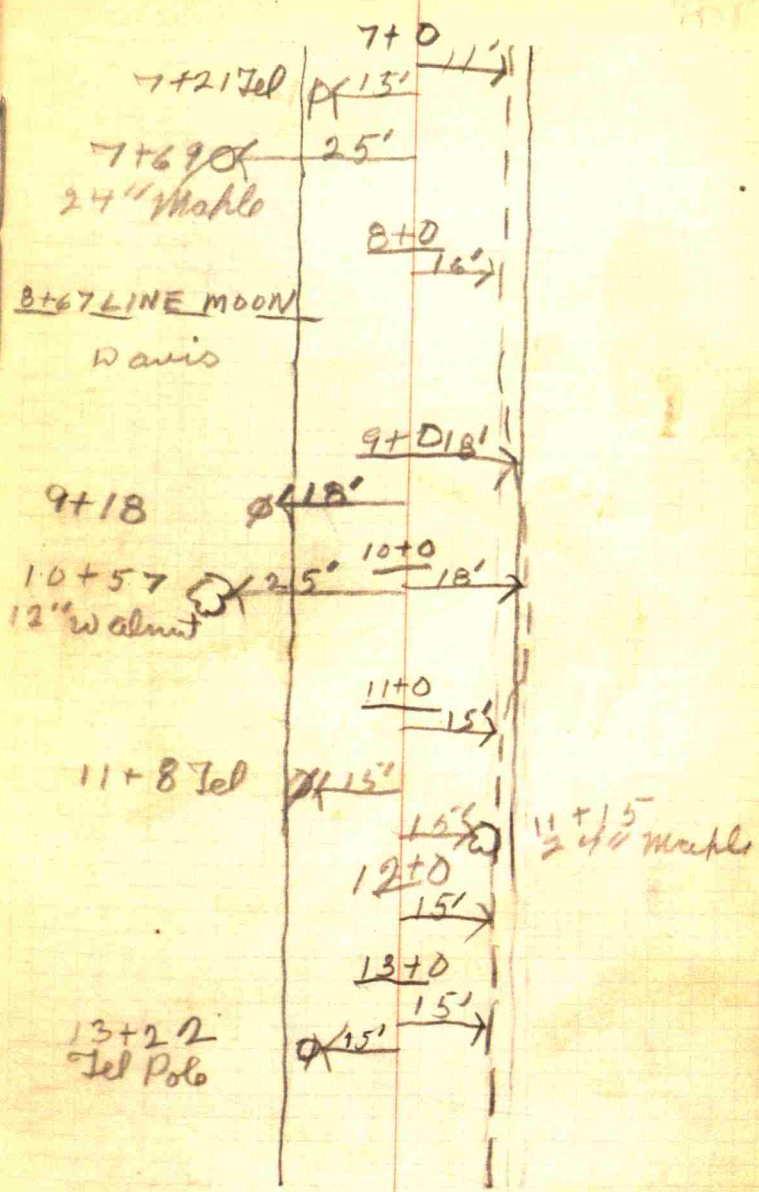
No 1. B.M. 3
El. 100.00

B.M.
No. 2. Bridge on
Belgrade Rd
North West Wing
at end of Rail
Sta 126+50
El. 106.28

106.28
94 63
1165

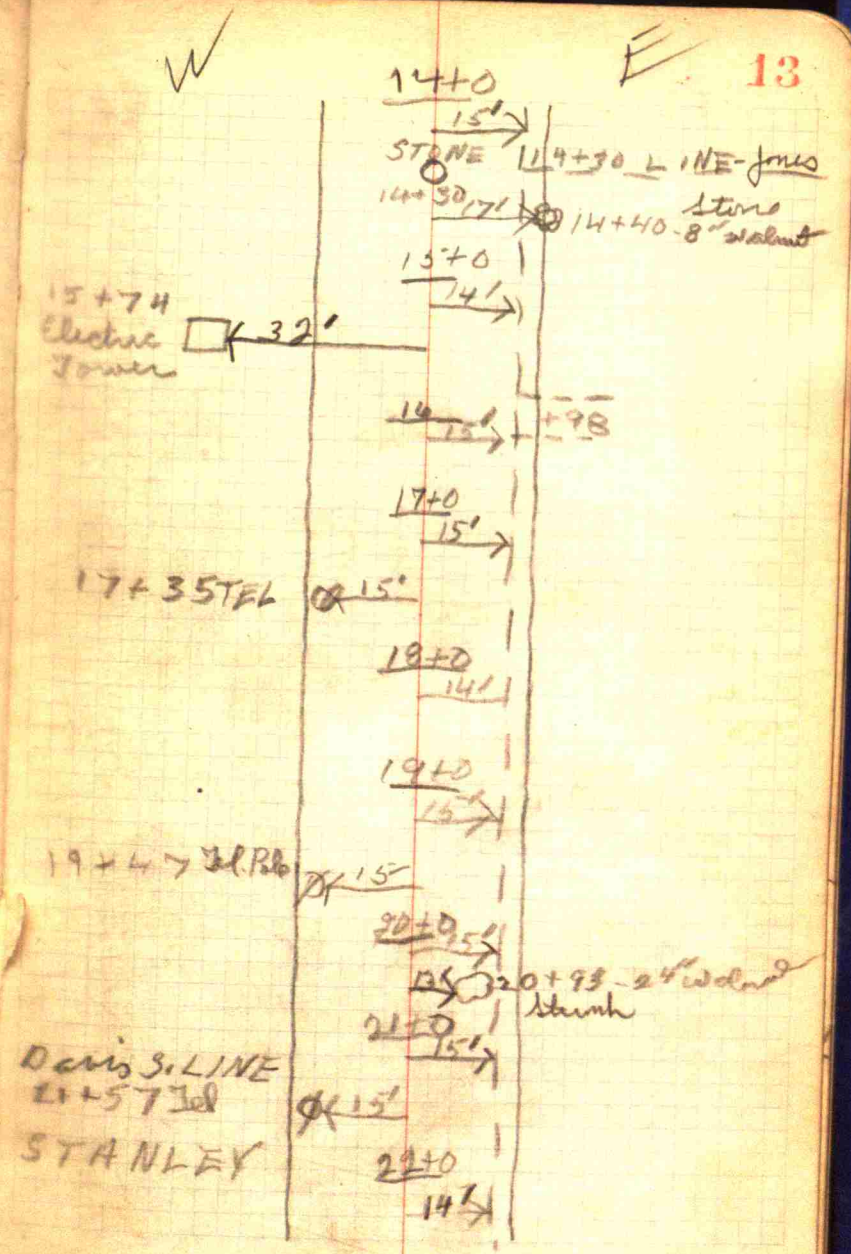
Sellers + Shutts Rd

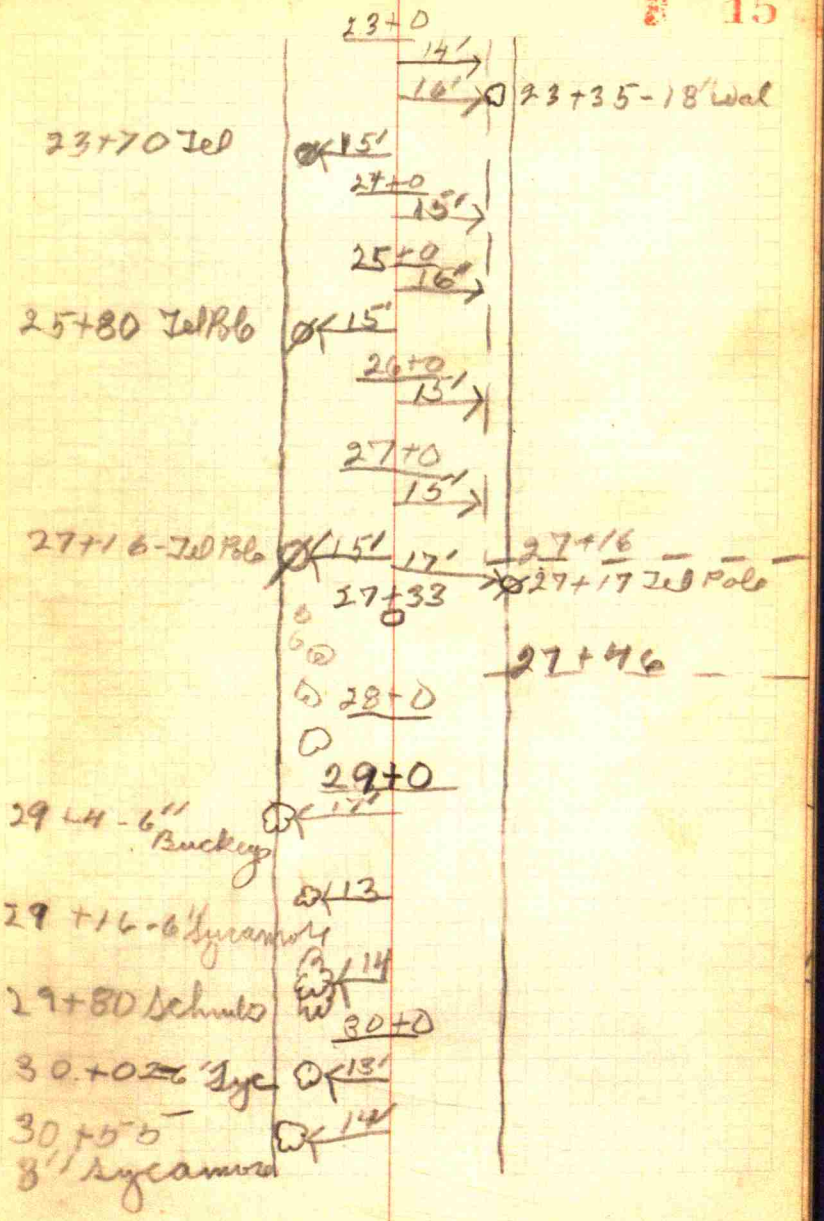



7+0
11'
7+21 Tel
15'
7+69
25'
24" Maple
8+0
16'
8+67 LINE MOON
Davis
9+0 18'
9+18
18'
10+0
10+57
25'
18'
12" Walnut
11+0
15'
11+8 Tel
15'
15'
11½" Maple
12+0
15'
13+0
15'
13+22
15'
Tel Pole

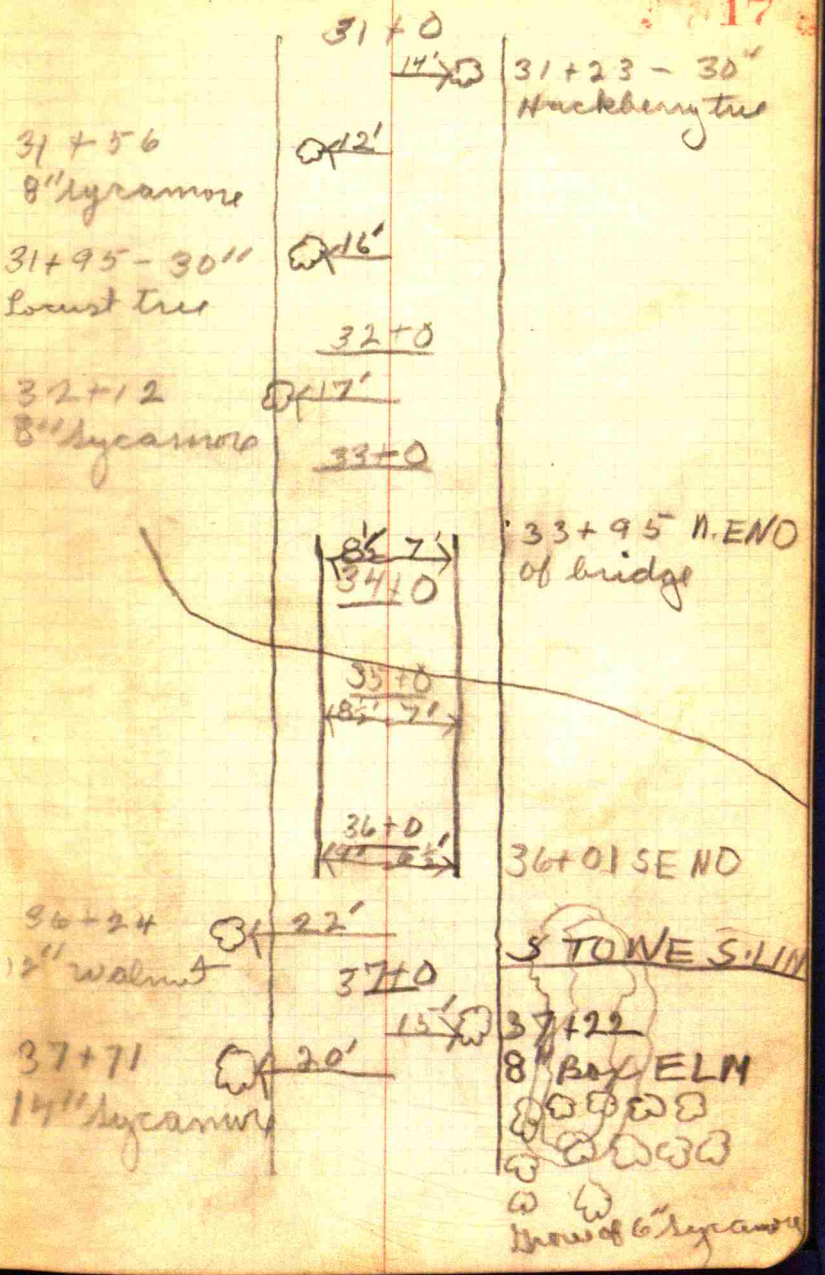
10

13


W
E
14+0
15'
STONE
14+30 LINE-Jones
14+30
17'
14+40 - 8" Walnut
Stone
15+0
14'
15+74
Electric
Tower
32'
16
15'
+98
17+0
15'
17+35 TEL
15'
19+0
14'
19+0
15'
19+47 Tel. Pole
15'
20+0
5'
20+93 - 24" Walnut
Stump
21+0
5'
Davis S. LINE
21+57 Tel
15'
STANLEY
22+0
14'


23+0
14'
16'
23+35 - 18" Wal
23+70 Tel
15'
27+0
15'
25+0
16'
25+80 Tel Pole
15'
26+0
13'
27+0
15'
27+16 - Tel Pole
15'
17'
27+16
27+17 Tel Pole
17+33
27+46
28+0
29+0
29+4 - 6" Buckeye
17'
13
29+16 - 6" Sycamore
14
29+80 Schmidt
30+0
30+0 - Syc
13'
30+5 - 6
8" Sycamore
14'

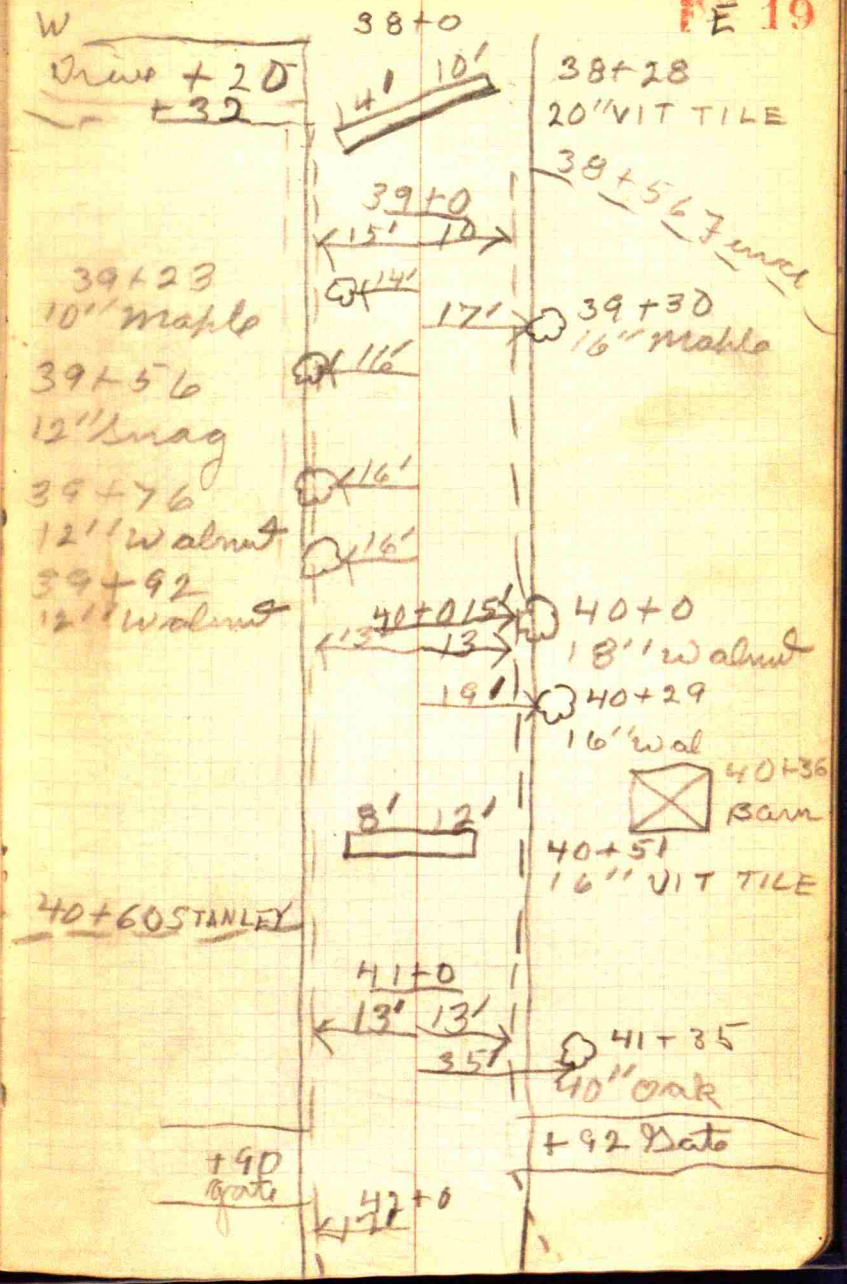
22
62
71

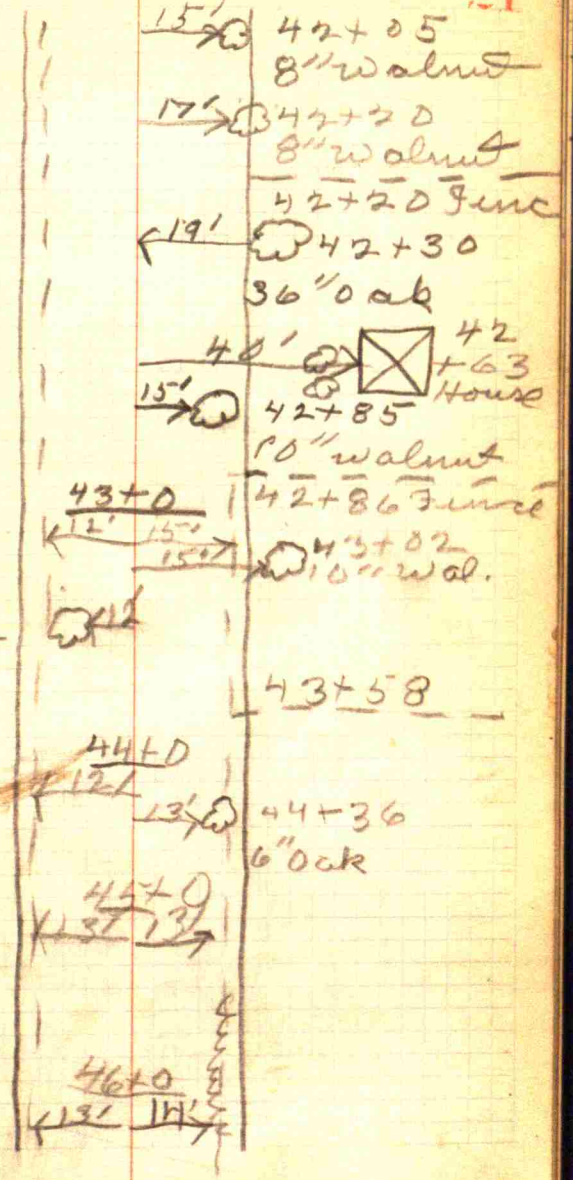

31+0
14'
31+23 - 30" Hackberry tree
31+56
8" Sycamore
12'
31+95 - 30" Locust tree
16'
32+0
32+12
8" Sycamore
17'
33+0
33+95 N. END of bridge
8½'
7'
34+0
35+0
8½'
7'
36+0
36+01 SE END
36+24
12" Walnut
22'
STONE S. LIN
37+0
15'
37+22
8" Box ELM
37+71
14" Sycamore
20'
Drop of 6" Sycamore

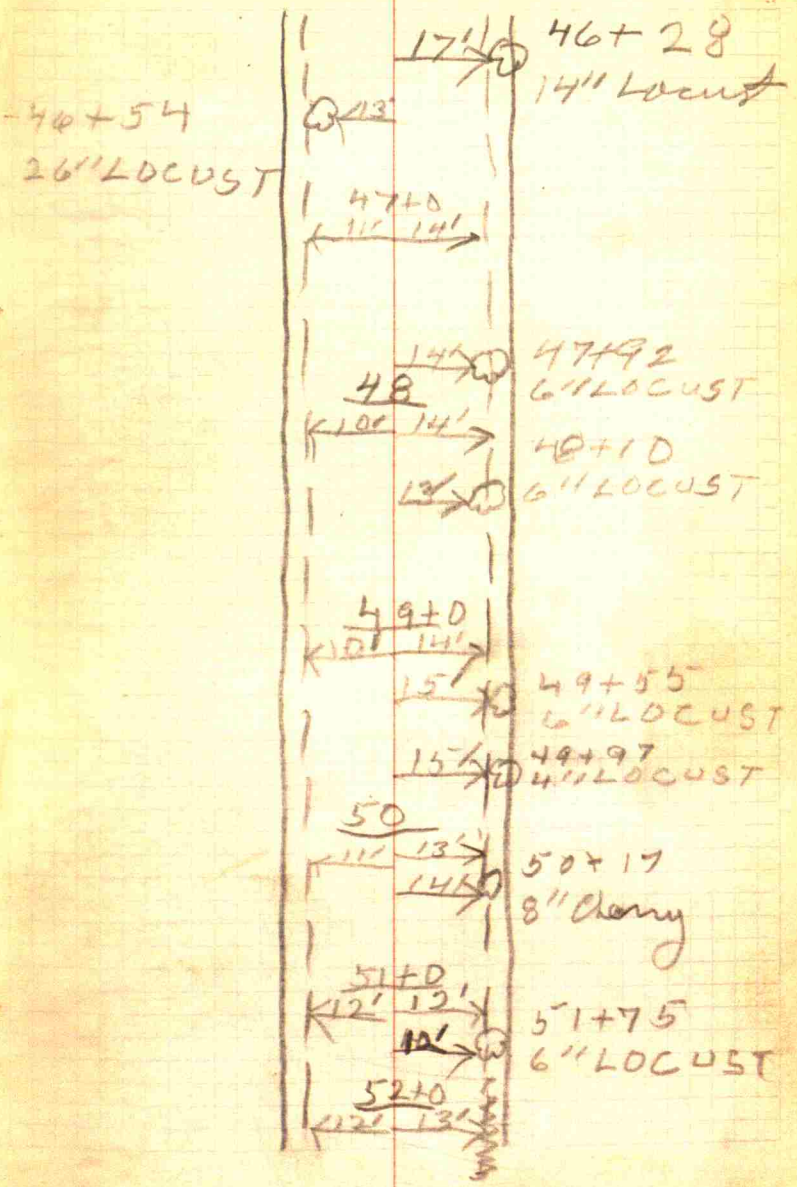
J 18

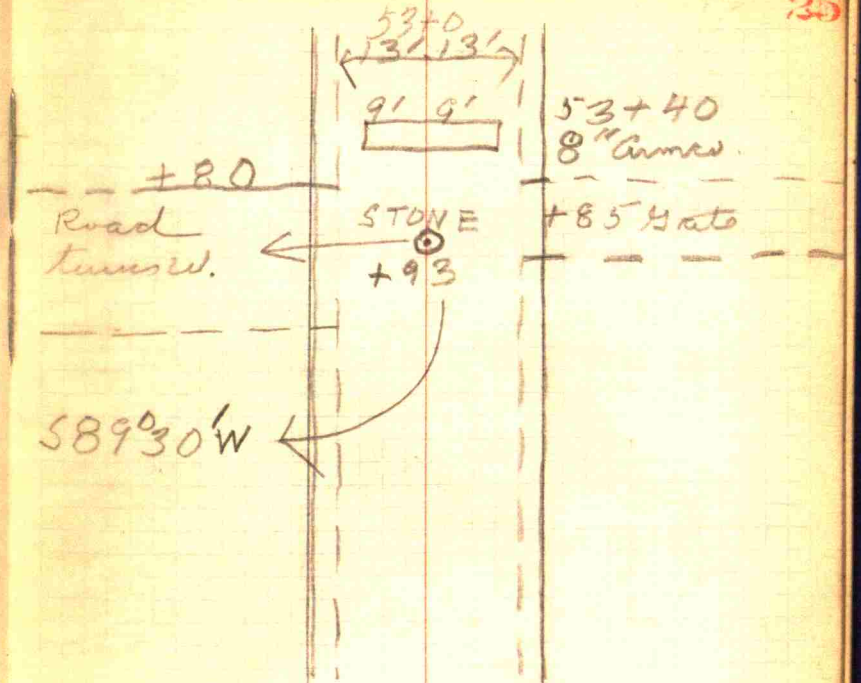
23
30
56
76

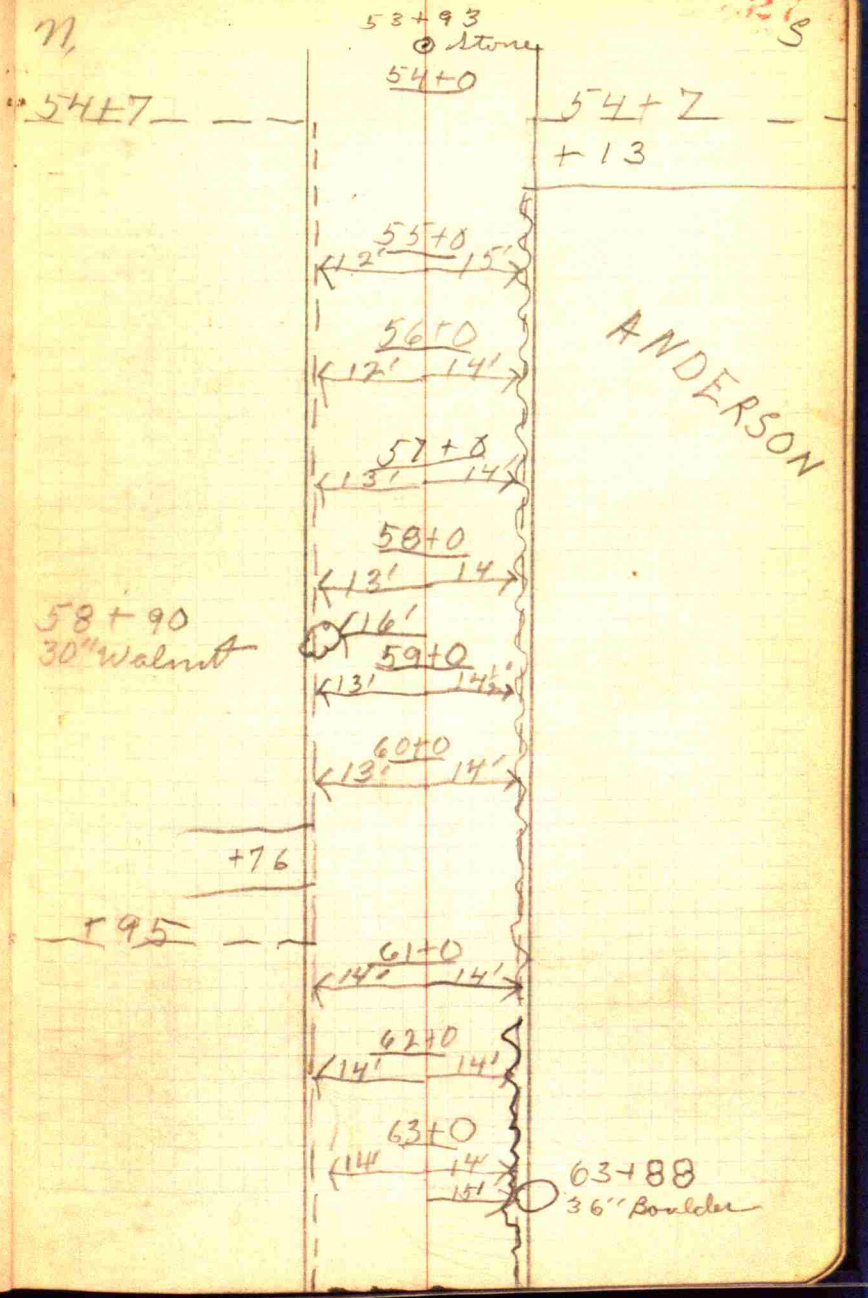
FE 19



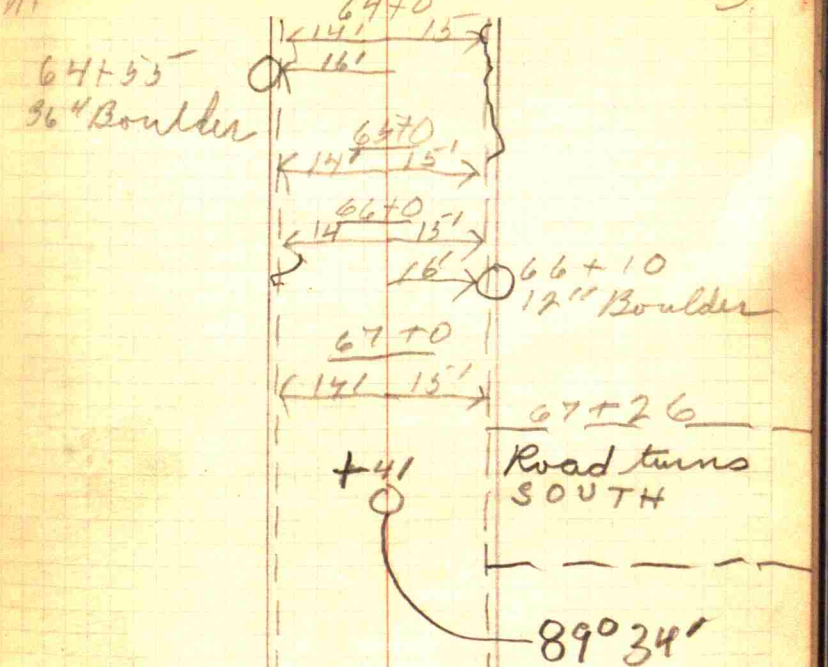

15'
42+05
8" Walnut
17'
42+20
8" Walnut
42+20 Fence
19'
42+30
36" Oak
40'
42+63
House
15'
42+85
20" Walnut
42+86 Fence
43+0
12'
15'
15'
43+02
10" Wal.
43+43
12" Walnut
12'
43+58
44+0
12'
13'
44+36
6" Oak
44+0
13'
13'
46+0
13'
14'


17'
46+28
14" Locust
46+54
26" LOCUST
13'
47+0
11'
14'
14'
47+92
6" LOCUST
48
10'
14'
46+10
6" LOCUST
13'
49+0
14'
49+55
6" LOCUST
15'
49+97
4" LOCUST
50
11'
13'
14'
50+17
8" Cherry
51+0
12'
12'
12'
51+75
6" LOCUST
52+0
12'
13'


53+0
13'
9'
9'
53+40
8" Curves
+80
Road
turned.
STONE
+93
+85 Gate
S89°30'W

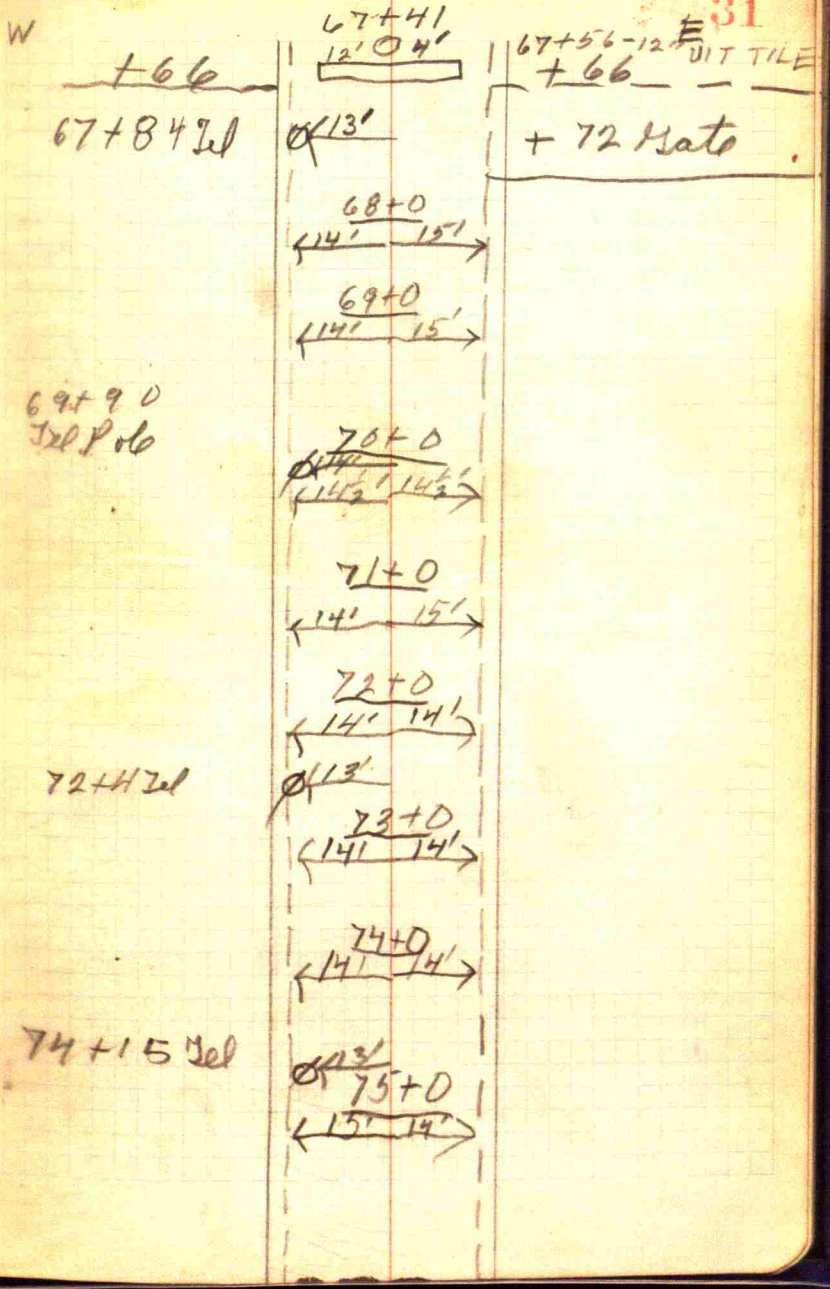

N
53+93
Stone
54+0
54+7
54+2
+13
55+0
12'
15'
56+0
12'
14'
57+0
13'
14'
58+0
13'
14'
58+90
30" Walnut
16'
59+0
13'
14½'
60+0
13'
14'
+76
I 95
61+0
14'
14'
62+0
14'
14'
63+0
14'
14'
15½'
63+88
36" Boulder
ANDERSON

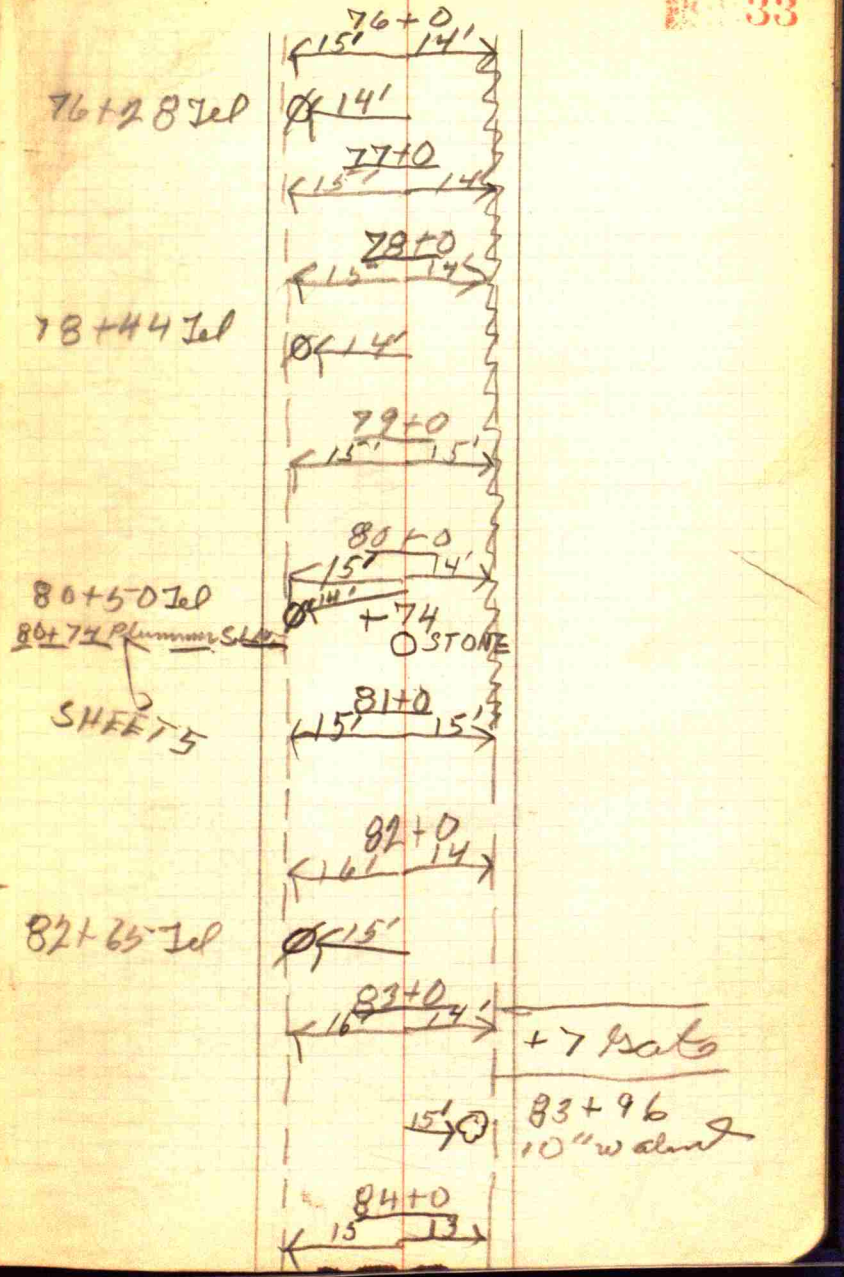
N.

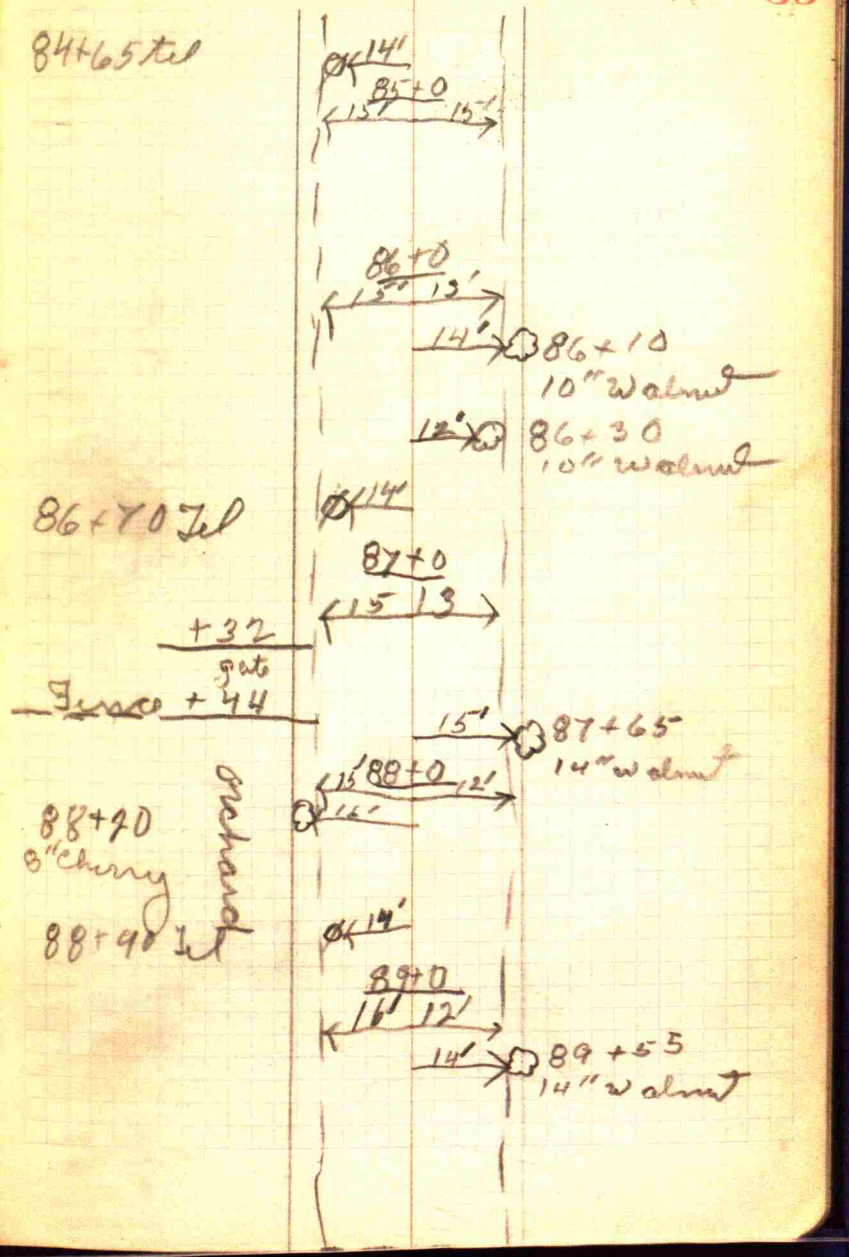

64+0
14'
15'
16'
64+55
36" Boulder
64+0
14'
15'
64+0
14'
15'
16'
66+10
12" Boulder
67+0
14'
15'
67+26
Road turns
SOUTH
+41
89° 34'

30

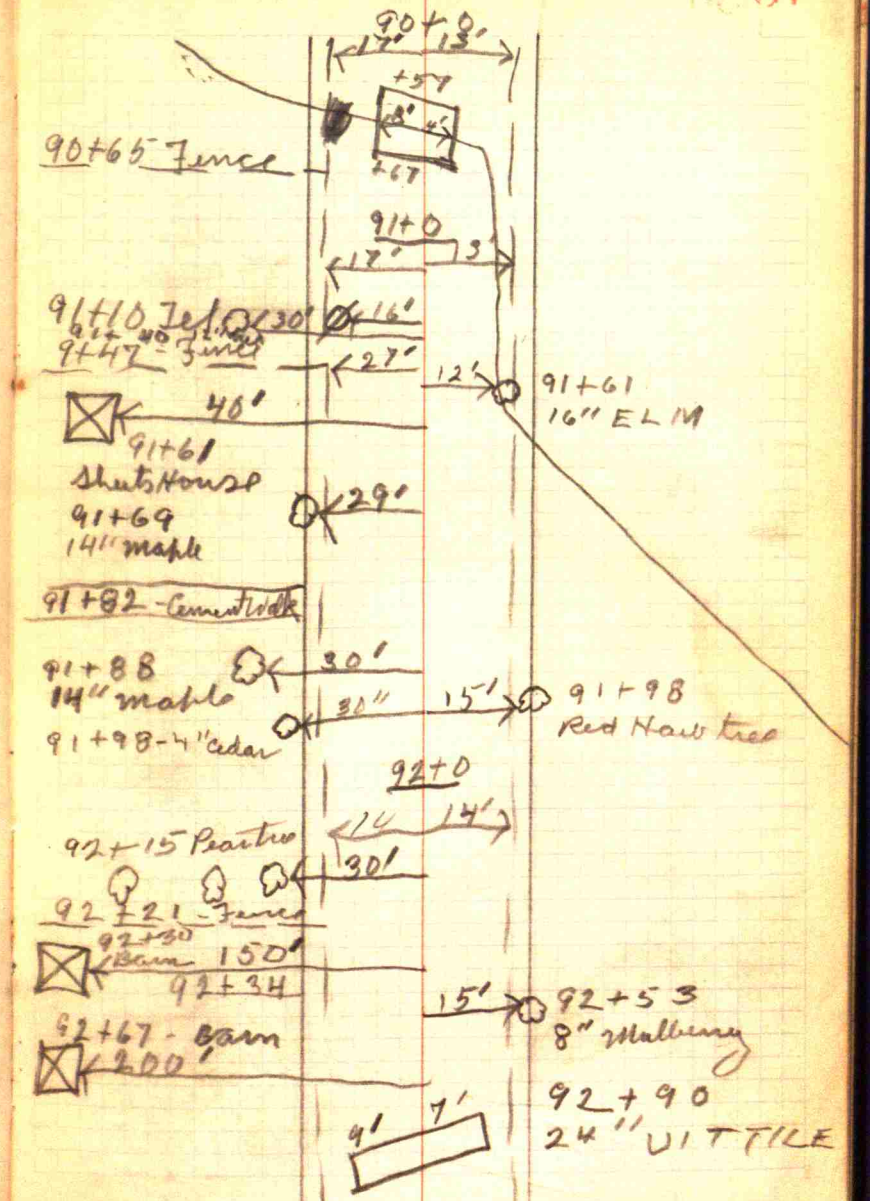
31

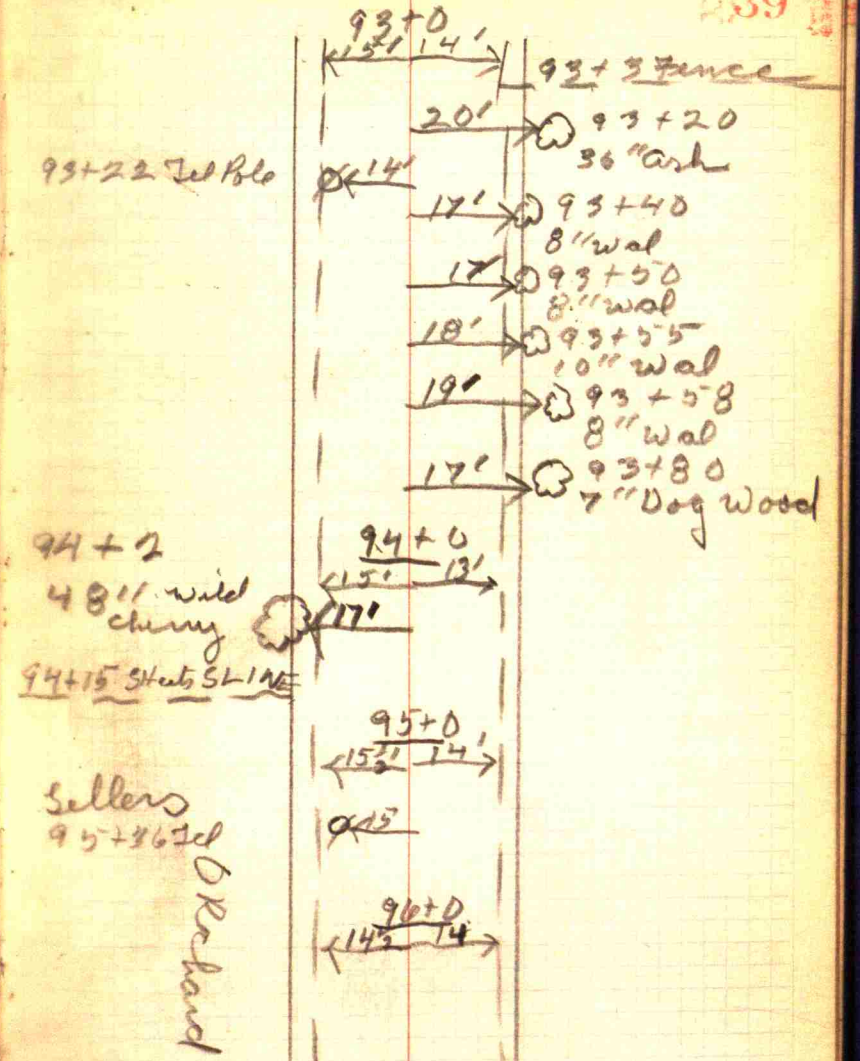

W
67+41
12' 0 4'
67+56-12
+66
+66
67+84 Del
13'
+ 72 Mate
68+0
14' 15'
69+0
14' 15'
69+90
Del Pole
70+0
14½' 14½'
71+0
14' 15'
72+0
14' 14'
72+11 Del
13'
73+0
14' 14'
74+0
14' 14'
74+15 Del
13'
75+0
15' 14'

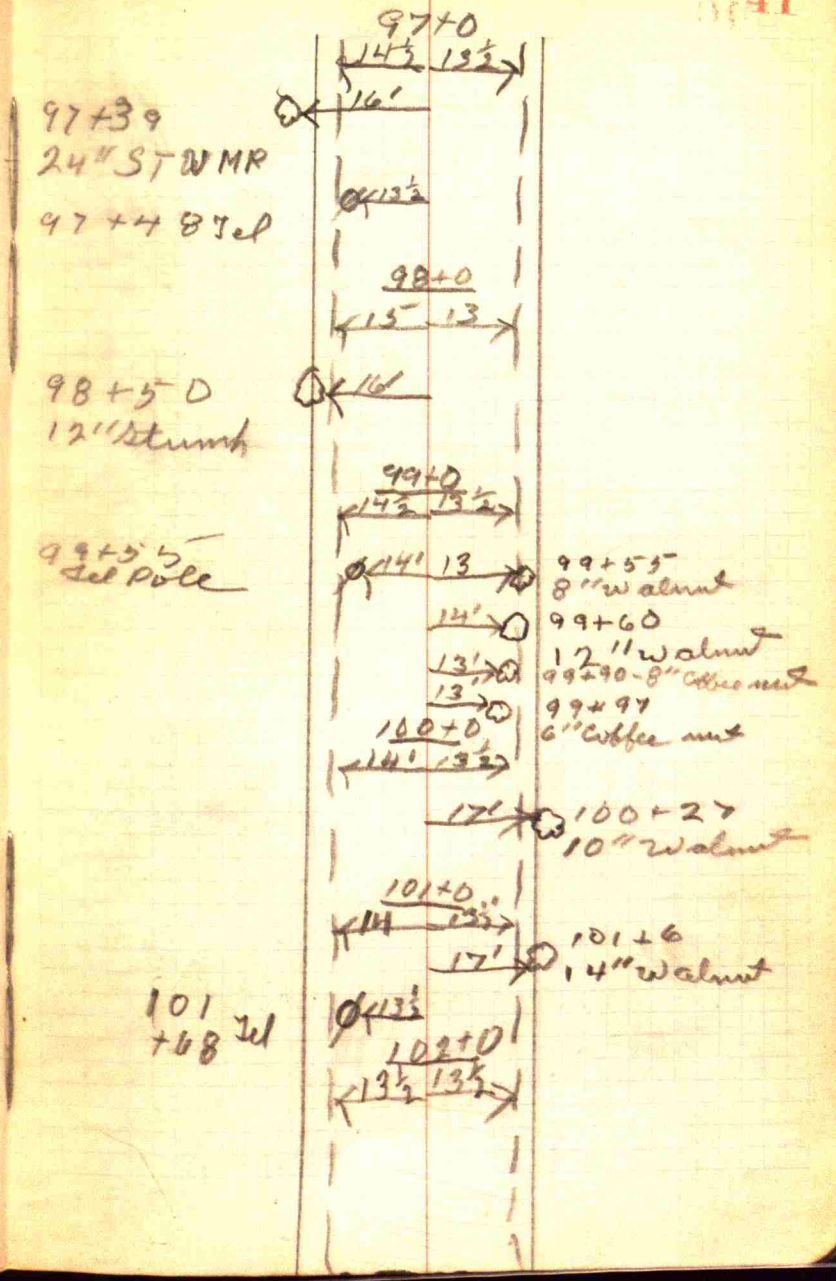

76+0
15'
14'
76+28 Tel
14'
77+0
15'
14'
78+0
15'
14'
78+44 Tel
14'
79+0
15'
15'
80+0
15'
14'
80+50 Tel
80+74 Plummer Slab
14'
+74
STONE
SHEET 5
81+0
15'
15'
82+0
16'
14'
82+65 Tel
15'
83+0
16'
14'
+7 Posts
83+96
10" w elm
15'
84+0
15'
13'

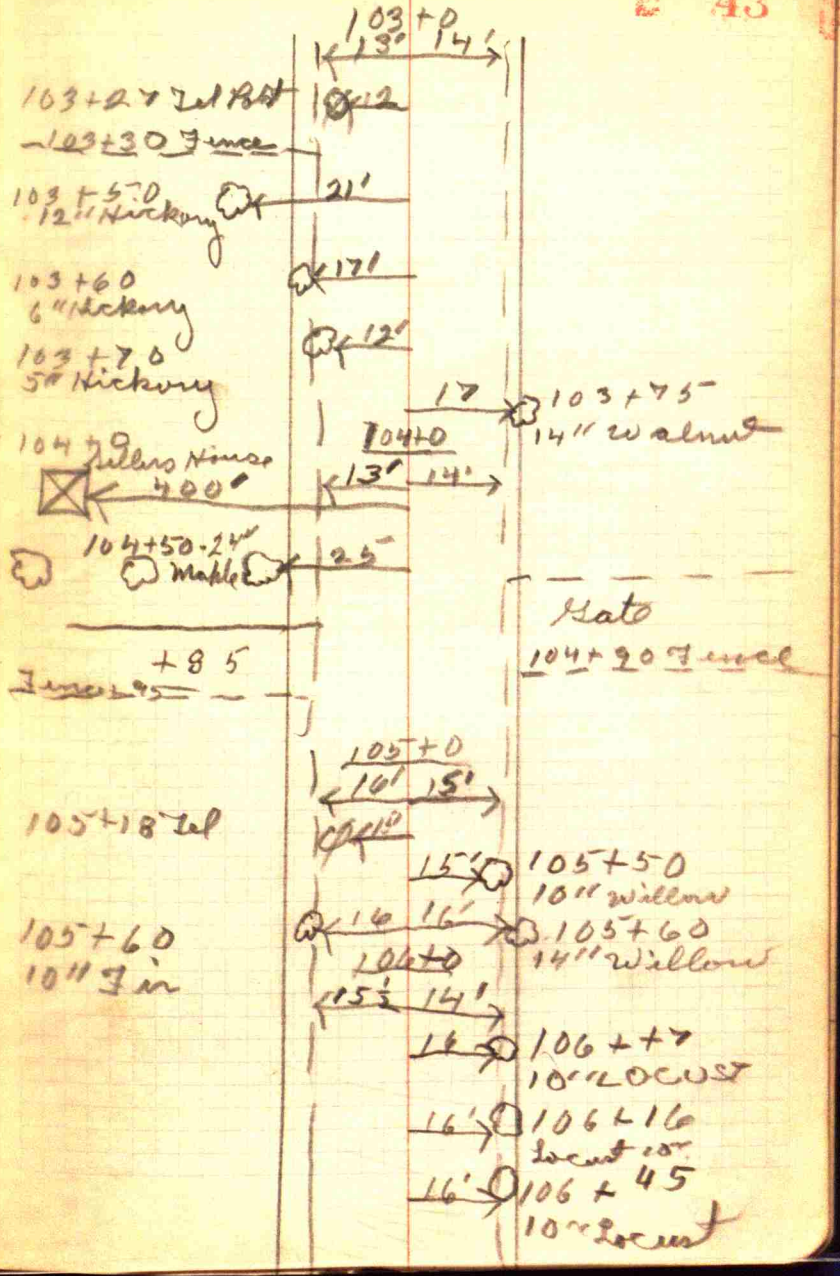

84+65 Tel
14'
85+0
15'
15'
86+0
15'
13'
14'
86+10
10" Walnut
12'
86+30
10" Walnut
86+70 Tel
14'
87+0
15
13
+32
gate
Fence +44
15'
87+65
14" walnut
15'
88+0
12'
16'
88+70
8" Cherry
Orchard
88+90 Tel
14'
89+0
16'
12'
14'
89+55
14" Walnut

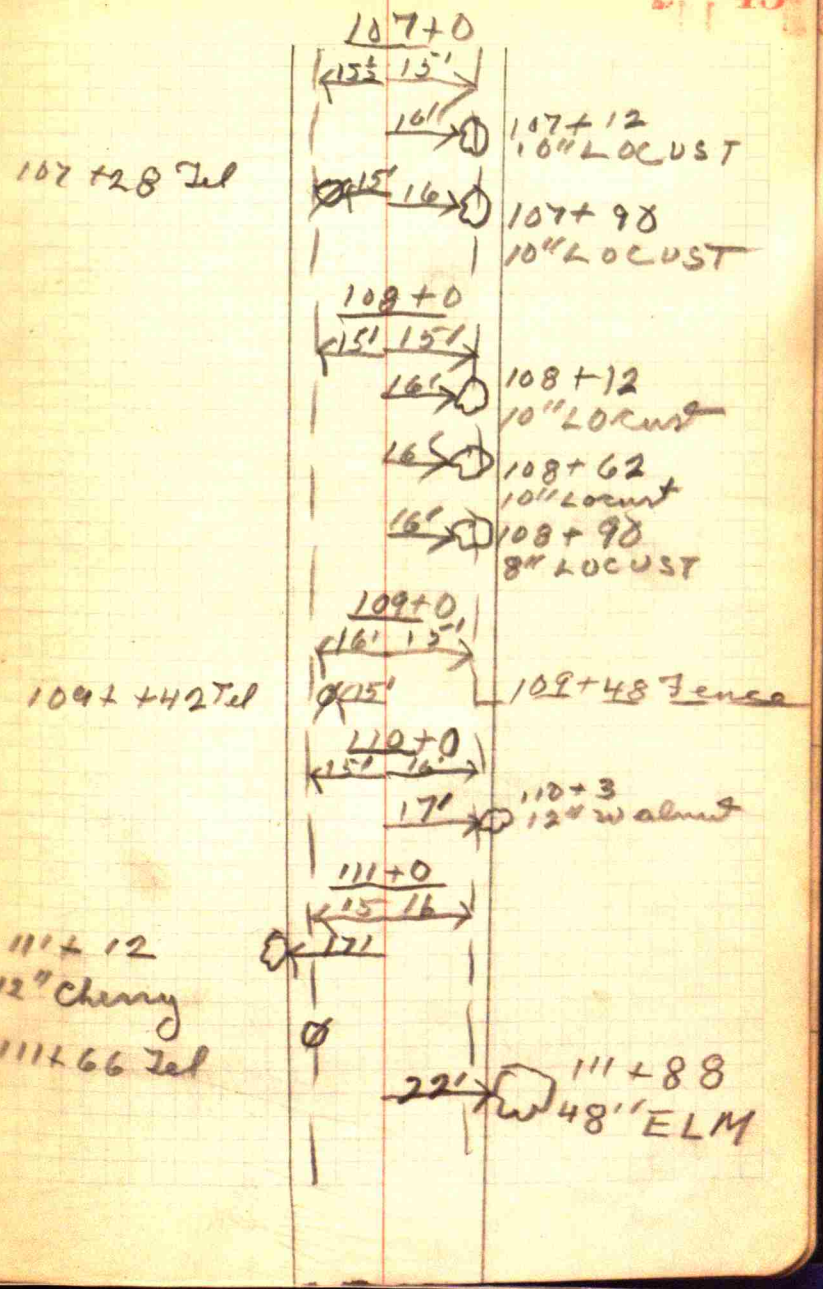
61	18	53
69	21	67
82	34	90




93+0
15½'
14'
93+5 Fence
20'
93+20
36" ash
93+22 Tel Pole
14'
17'
93+40
8" wal
17'
93+50
8" wal
18'
93+55
10" wal
19'
93+58
8" wal
17'
93+80
7" Dog Wood
94+0
15'
13'
94+2
48" wild cherry
17'
94+15 St cuts SL INT
95+0
15½'
14'
Sellers
95+36 Tel
15'
O'Rickard
96+0
14½'
14'

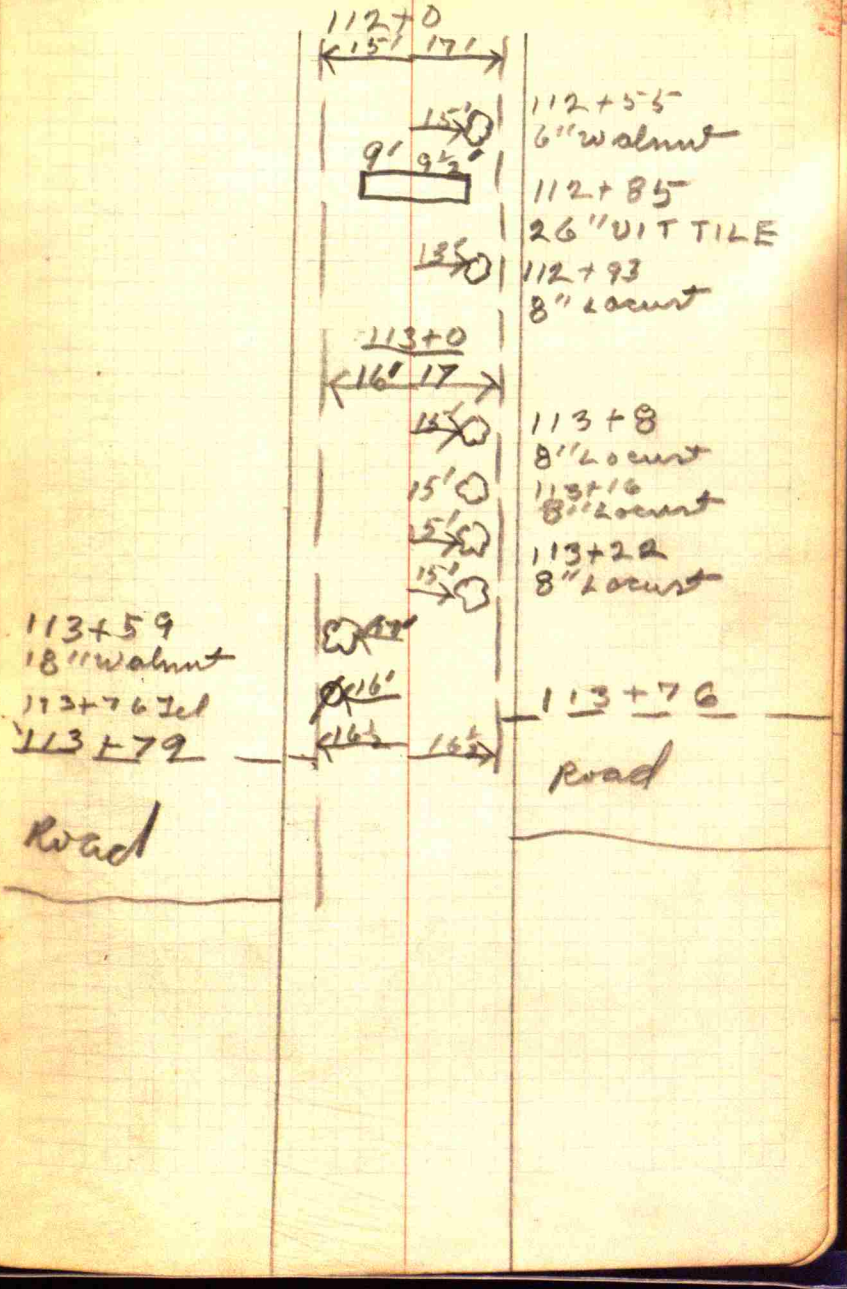

97+0
14½
13½
16'
97+39
24" STW MR
97+48 Tel
13½
98+0
13'
13
16'
98+50
12" Stump
99+0
14½
13½
99+55
Tel Pole
14'
13
99+55
8" Walnut
14'
99+60
12" Walnut
13'
99+90 - 8" Coffee nut
13'
99+97
6" Coffee nut
100+0
14'
13½
17'
100+27
10" Walnut
101+0
14
13½
17'
101+6
14" Walnut
101
+68 Tel
13½
102+0
13½
13½


103+0
13'
14'
103+20 Tel Rod
+2
103+30 Fence
103+50
12" Hickory
21'
17'
103+60
6" Hickory
12'
103+70
5" Hickory
17
103+75
14" Walnut
104+0
Tillers House
400'
104+0
13'
14'
104+50 - 24"
Maple
25'
Gate
104+20 Fence
+85
Fence
105+0
16'
15'
105+18 Tel
10"
15'
105+50
10" Willow
16
16'
105+60
14" Willow
105+60
10" Pin
104+0
15½'
14'
16'
106++7
10" Locust
16'
106+16
Locust
16'
106+45
10" Locust


107+0
15½
15'
16'
107+12
10" LOCUST
107+28 Tel
15'
16'
107+98
10" LOCUST
108+0
15'
15'
16'
108+12
10" LOCUST
16'
108+62
10" LOCUST
16'
108+98
8" LOCUST
109+0
16'
15'
109+42 Tel
15'
109+48 Fence
110+0
15'
16'
17'
110+3
12" walnut
111+0
15'
16'
12'
111+12
12" Cherry
111+66 Tel
22'
111+88
48" ELM

8
16
22
40

59
76
79



	3' out	Stk	Ditch	Bm	℄
0+0	99.40	99.33	98.82 (31)	100.00 (27)	100.42
1	98.80	98.75	98.50 (29)	99.52 (25)	99.79
2	98.91	98.96	97.40 (32)	98.63 (25)	98.26
3	97.14	97.22	96.21 (31)	97.46 (29)	97.10
4	98.12	98.57	97.78 (29)	98.82 (26)	99.10
5	98.03	98.10	97.57 (28)	98.53 (25)	98.79
6	97.74	97.65	96.45 (29)	97.93 (24)	98.10
7	97.13	97.57	96.36 (27)	97.15 (27)	97.45
8	96.94	97.01	95.56 (28)	96.52 (25)	97.00
9	96.42	96.24	88.60 (30)	89.34 (24)	89.97
10	84.49	83.37	81.58 (30)	82.50 (25)	82.94
11	72.46	72.79	72.30 (30)	76.02 (25)	76.30
12	67.29	67.56	68.34 (30)	71.22 (24)	71.71
13	67.80	67.58	67.01 (28)	68.26 (23)	68.55
14	65.76	65.77	65.37 (29)	66.68 (22)	66.98
15	66.62	66.83	65.60 (30)	66.68 (20)	67.10
16	66.00	65.95	65.33 (29)	67.09 (21)	67.43
17	68.10	68.43	67.03 (29)	68.15 (21)	68.54
18	63.11	63.19	62.81 (27)	64.17 (22)	64.73
19	62.46	62.56	62.02 (28)	63.23 (22)	63.57
20	61.87	61.95	61.48 (28)	62.73 (22)	62.95
21	61.80	61.78	61.37 (27)	62.37 (22)	62.53
22	62.08	62.20	61.55 (28)	62.70 (22)	62.80
23	61.46	61.50	60.75 (27)	62.03 (22)	62.52
24	60.74	61.00	60.78 (27)	61.61 (21)	61.72

Bm	Ditch	Stk	3' out
100.10 (3)	98.85 (9)	98.72	98.95
99.79 (4)	98.63 (9)	99.10	99.04
98.64 (5)	97.95 (10)	98.75	98.69
97.56 (5)	95.78 (10)	95.07	94.95
98.47 (5)	97.79 (10)	98.33	98.24
98.65 (3)	97.62 (9)	98.15	97.22
97.92 (3)	96.96 (9)	97.38	97.00
97.21 (2)	96.19 (9)	95.48	95.10
94.53 (2)	95.71 (8)	95.29	94.73
89.63 (3)	88.57 (9)	95.86	95.73
82.77 (2)	81.92 (8)	87.21	87.74
73.87 (2)	72.30 (7)	71.50	71.25
71.37 (2)	69.26 (8)	66.89	66.60
66.26 (3)	67.11 (8)	67.33	67.33
66.66 (2)	65.09 (8)	65.32	65.24
66.47 (10)	65.07 (6)	64.90	64.82
66.90 (9)	67.07 (6)	65.37	65.32
67.16 (10)	65.80 (7)	67.77	66.68
64.16 (11)	62.85 (7)	63.91	63.65
63.21 (10)	61.77 (7)	62.57	61.86
62.94 (11)	61.41 (7)	62.10	61.70
62.47 (11)	62.10 (6)	64.68	61.62
62.53 (11)	61.40 (8)	61.66	61.32
62.35 (11)	60.90 (7)	60.75	60.72
61.42 (10)	60.65 (7)	61.35	61.05

D.M.
on Roadbed
rock 0-12
on East
back line
El. 100.00

0 93.10
0 84.10

0 73.60
0 67.20

C.M.
Rock on
center of
Road at Sta
17+75
El. 66.32

0 62.65

W 50	Cent	Sth	Ditch	Berm	℄
R5	6089	61.18	60.47 27	61.37 20	61.37
R6	61.03	61.42	60.63 27	61.50 21	61.71
R7	60.96	61.50	60.28 28	61.39 21	61.13
R8	59.88	60.43	60.23 28	60.31 22	60.27
R9	60.32	60.31	60.02 29	60.28 21	60.11
30	59.86	60.31	59.53 24	59.68 21	59.78
31	59.75	59.42	59.29 28	59.52 22	59.64
32	60.24	60.25	59.10 28	59.58 20	59.51
33	58.52	58.45	58.89 29	60.39 23	60.54
34					62.75
35					66.27
36					63.15
37	57.78	58.20	59.12 30	57.28 24	62.35
38	67.76	67.65	66.89 28	66.83 23	66.93
39	74.10	74.14	72.09 26	72.53 22	73.82
40	76.83	76.95	74.70 26	75.42 21	75.41
41	76.77	76.84	75.24 24	76.12 20	76.25
42	78.31	78.27	77.91 24	78.80 19	78.15
43	79.37	79.24	77.11 23	78.88 23	79.11
44	79.66	79.70	78.73 23	79.34 19	79.30
45	80.03	80.06	78.91 22	79.70 19	79.81
46	80.38	80.35	79.38 20	80.28 18	80.39
47	83.50	83.43	81.28 20	82.10 18	82.11
48	82.16	82.23	81.50 24	82.43 19	82.48
49	83.31	83.34	82.22 24	82.64 20	82.82

Berm	Ditch	Sth	Cent
60.39 8	60.67 6	60.61	59.99
61.43 8	60.65 6	60.47	60.15
61.22 10	60.68 6	61.32	61.06
60.28 11	60.23 9	60.62	60.29
60.34 12	60.50 7	59.54	59.26
59.83 11	59.99 6	59.54	59.14
59.54 11	59.80 6	59.19	59.10
59.53 12	60.01 6	59.33	58.87
60.20 12	59.57 6	59.77	59.57
61.87 13	60.28 8	56.83	55.80
60.98 13	64.47 9	60.65	59.82
72.75	72.06 9	76.16	76.36
75.37 11	74.81 9	74.45	74.46
76.05 10	75.12 6	72.48	72.49
78.93 10	78.29 7	78.47	78.53
79.09 9	78.22 7	78.43	78.52
79.35 10	79.51 6	79.17	78.94
79.50 9	79.15 6	79.75	79.58
80.17 9	80.52 7	80.51	80.46
82.02 9	81.25 7	82.37	81.68
82.42 10	82.06 8	83.17	82.80
82.94 11	82.48 7	84.05	83.67

51

25'R. @ 60.54
40'R. @ 60.74
℄ @ 60.95
on stone.

⊙ 59.78

34+50
Slab 66.33
35+45
slab 66.65

Sapinka W.
Rail Yard
Sta 36+0
El. 66.72
B.M.

⊙ 67.55

⊙ 77.75

⊙ 80.85

	3' Out	Stk	Ditch	Berm	R
50	83.85	83.74	83.14	83.62	83.25
51	83.07	83.00	81.63	82.00	82.27
52	81.68	81.42	80.34	81.32	82.61
53	80.82	80.75	80.32	81.36	81.51
54 S	80.91	81.00	80.25	81.20	81.50
55	81.27	81.26	80.32	82.03	82.42
56	82.72	82.87	81.67	82.78	82.31
57	84.56	84.59	83.18	84.01	84.40
58	85.52	85.46	84.52	85.35	85.72
59	86.14	86.22	85.43	86.88	87.04
60	87.75	87.35	86.37	88.72	88.87
61	90.37	90.68	90.27	91.08	91.22
62	93.90	94.04	92.88	94.84	94.21
63	97.76	98.15	96.43	97.26	97.36
64	101.22	101.20	99.31	102.36	102.45
65	104.88	104.87	102.94	104.02	104.11
66	109.05	109.16	108.72	108.55	108.63
67	113.67	113.81	112.26	113.17	113.91
68	118.24	118.39	116.43	117.20	117.45
69	118.62	118.82	117.16	117.69	117.55
70	115.54	115.65	113.80	114.74	115.46
71	114.40	114.65	112.37	112.65	112.57
72	111.41	111.75	109.54	110.20	110.56
73	109.40	109.75	107.67	108.42	108.75
74	106.86	107.69	105.25	106.74	107.05

Berm.	Ditch	Stk.	Cent	
83.67	83.40	84.57	84.12	2.5 pit South
82.22	81.46	82.20	81.77	of road at
81.26	80.44	80.68	80.25	sta 53+94
81.15	80.14	80.42	80.41	El. 80.90
81.70	81.50	81.50	81.59	N
82.14	81.56	80.96	80.26	⊙ 81.64
83.25	82.02	82.05	82.07	
84.20	83.00	84.10	83.90	⊙ 87.12
96.52	94.14	95.53	95.06	097.41
86.92	85.13	86.73	86.93	
88.03	87.46	87.80	87.65	⊙ 109.04
90.98	90.02	91.17	91.31	.70 inpool W.
94.20	93.34	94.32	94.06	at sta 67+42
97.35	96.91	97.50	97.40	119.90
100.53	99.17	101.00	100.79	
104.26	103.04	104.76	104.70	
108.59	107.42	109.04	108.61	117.50
113.07	112.32	113.52	113.34	⊙
117.25	116.08	115.86	115.08	
117.15	116.10	115.88	115.64	⊙ 110.03
114.51	113.50	113.07	113.08	
112.38	111.66	112.19	111.62	
110.38	109.32	110.12	110.00	
108.42	107.69	108.49	108.16	
106.69	105.92	107.01	106.57	

W

	3' out	Stk	Ditch	Berm	℄	Berm	Ditch	Stk	3 out
75	10431	10623	10342 [28]	10426 [22]	10478	10451 [1]	10350 [7]	10502	10472
76	101.86	102.05	101.17 [27]	10228 [23]	102.68	10251 [11]	10154 [7]	101.60	10150
77	100.57	101.14	10[illegible]3 [27]	101.01 [22]	101.35	101.05 [11]	99.80 [8]	100.10	100.06
78	99.21	99.90	98.44 [27]	9943 [22]	99.90	99.60 [12]	98.31 [8]	99.08	98.67
79	97.22	97.44	96.90 [27]	98.28 [22]	98.32	98.32 [12]	96.97 [8]	96.90	96.95
80	96.88	97.39	95.65 [26]	96.87 [22]	97.35	96.89 [11]	96.09 [8]	97.35	97.26
81	96.37	96.70	9451 [26]	9522 [22]	9560	9526 [11]	94.17 [8]	96.81	96.21
82	94.70	94.83	9205 [27]	93.49 [24]	9378	9332 [12]	9250 [9]	95.21	9517
83	92.12	92.29	9095 [27]	91.98 [23]	9241	9272 [12]	9125 [9]	9194	9214
84	89.58	89.67	8982 [27]	9048 [23]	9065	9045	8983 [9]	9018	8979
85	8825	883[illegible]	8873 [27]	[illegible]5 [3]	8986	8985 [12]	8874 [8]	8957	8940
86	87.71	8792	8810	8928 [22]	8963	8927 [12]	8810 [9]	8830	8777
87	88.80	8892	8773 [27]	8937 [22]	8981	8933 [13]	8817 [9]	88.86	8800
88	88.13	88.04	8653 [27]	8773 [23]	8832	8771 [12]	8657 [9]	88.53	8807
89	8623	8614	8475 [28]	8565 [24]	8590	8562 [13]	8474 [9]	87.01	86.86
90	82.47	8273	8217 [30]	8395 [23]	8401	8404 [14]	8211 [9]	8287	8328
91	8244	8241	8203 [32]	8276 [26]	8302	8302	7836 [8]	8200	8181
92	8395	8360	8342 [31]	8354 [27]	8333	83.52 [16]	8373 [9]	8436	8455
93	7918	7945	8081 [29]	8258 [22]	8251	8241 [12]	8092 [7]	81.09	8097
94	8737	8721	8454 [23]	8495 [21]	8534	8521 [11]	8465 [8]	8645	8648
95	8675	8696	8622 [28]	8704 [22]	8752	8707 [11]	8641 [7]	8626	8627
96	8886	89.04	8793 [36]	8852 [22]	8906	8867 [10]	8848	8878	8881
97	8786	88.04	8693 [30]	8231 [22]	8765	8745 [11]	8643 [7]	8757	8757
98	8560	8598	8515 [27]	8560 [22]	8600	8577 [11]	8566 [7]	8587	8578
99	8414	8457	8377 [27]	8440 [21]	8465	8441 [11]	8395 [8]	84.06	84.08

E

⊙ 100.30

⊙ cor Rock
El. 95.92

⊙
89.65

⊙ 85.91

B.M. South
East corner of
First steps
at Porch
El. 86.65

⊙ 86.18

56	3' out	Stk	Ditch	Berm	P
100	8346	8358	8287	8356	8407
101	8287	8310	8225	8316	8356
102	8304	8317	8236	8370	8320
103	8374	8384	8204	8323	8347
104	8862	8356	8156	8264	8300
105	8089	8090	8038	8104	8144
106	7894	7941	7902	8011	8002
107	7811	7844	7819	7922	7935
108	7775	7804	7782	7890	7908
109	7730	7753	7717	7833	7853
110	7703	7715	7622	7775	7794
111	7721	7702	7452	7632	7670
112	7606	7549	7304	7433	7465
113	7310	7295	7264	7376	7412
113+79	7515	7527	7527	7563	7574
114		50' 7645			7625

Berm	Ditch	Stk	3' out
8356	8295	8286	8280
8330	8263	8243	8216
8312	8253	8243	8236
8324	8339	8280	8274
8271	8162	8268	8261
8177	8003	8110	8105
7998	7913	7992	7979
7920	7817	7904	7897
7872	7755	7834	7817
7834	7720	7785	7760
7773	7717	7749	7753
7661	7624	7774	7776
7456	7385	7601	7594
7366	7215	7162	7264
7580	7515	7536	7585
	50' 7633		

.08337

D7877

B.M. on
Cap of Conc
Post at end
of Road on
Side of the
road being
East and that
El. 8074

Sta 233+0

Est. Sheets

14582	Cu yds Exc @ 40¢		
400	Cu yds Exc Waterway	30¢	
4210	" " Gravel	1.25¢	
56'	of reland pipe	30¢	
72'	of 12" "	1.50	
64'	of 15" "	2.00	
46'	of 18" "	2.50	
88'	of 24" "	3.50	
164	Yds Conc "	14.00	
5446	# Steel Reinforcing	.05	
15	Unit Trusses 10' Clear Span	5.60	

Road

=	5832.80
=	120.00
=	5262 50
=	16.80
=	108.00
=	128.00
=	115.00
=	308.00
=	296.00
=	272.30
=	82.60
	15541.90
	1200.00
	$16741.90

Bonds 16700 00

Culverts

	Flow Line	Top	Berm Rt		Berm Lt
2+80	95.29	96.50	97.63	100.82	97.62
40+60	73.24	76.74	76.01	76.95	76.00
90+50	78.85			84.05	
92+85	78.33	81.02	82.36	82.35	82.39
112+50	70.32	74.19	73.64	73.85	73.50

Top	Flowline	Ditch
94.94	93.80	93.28
76.57	73.00	
	79.11	
80.73	78.22	76.77
82.07	79.87	

Sta	El. Sub Grade	El. Stk	Cut	Fill
0+0	9977	9904		
1+0	9902	9862		
2+0	9827	9835		
3+0	9752	9650		
4+0	9677	9827		
5+0	9602	9752		0975
6+0	9458	9731		
7+0	9176	9681		
8+0	8825	9546		
9+0	8474	9353		0914
10+0	8123	8509		0800
11+0	7772	7117		0718
12+0	7421	6635		
13+0	7070	6727		
14+0	6798	6522		
15+0	6687	6552		
16+0	6655	6455		
17+0	6623	6614		
18+0	6591	6249		
19+0	6559	6178		
20+0	6527	6091		
21+0	6495	6100		
22+0	6463	6143		
23+0	6431	6086		

Sta	El. Sub Grade	El. Stk	Cut	Fill
24+0	6399	6011		
25+0	6364	6053		
26+0	6329	6068		
27+0	6294	6072		
28+0	6259	5981		
29+0	6224	5963		
30+0	6189	5950		
31+0	6197	5892		
32+0	6291	5985		
33+0	6428	5810		
34+0	6565			
35+0	6685			
36+0	6702			
37+0	6702	5744		
39		5596		6818
40+0		5716		7606
41+0		5723		
42+0		5865		
43+0		5966		
44		7991	45+0	
45		8025	46	
46		8075	47	
47		8894	48	

Sta	El Grad	El Sub Grade	El Stk	Cut	Fill
48+0	80.60		8242	49	
49+0	80.80		8380	50	
50+0	81.00		8424	51	
51+0	81.20		8357	52	
52+0	81.40		8176	53	
53+0	81.60		8017	54	
54+0	81.80		8144	55	
55+0	81.98		8231	56	
56+0	82.16		8417	57	
57+0	82.52		8538	58	
58+0	82.97		8685	59	
59+0	83.60		8775	60	
60+0	87.23		9197	61	
61+0	89.01		—	62	9586
62+0	91.67		9740	63	
63+0	94.48		10086	64	
64+0	97.29		10501	65	
65+0	100.27		10866	66	
66+0	104.33		11345	67	
67+0	108.56		11856	68	
68+0	112.79		11866	69	
69+0	116.55		11575	70	
70+0	117.17		11437	71	
71+0	115.37		11126	72	
72+0	113.24		10930	73	

Sta	El Grade	El Sub Grade	El Stk	Cut	Fill
~~73+0~~	~~111.11~~				
~~73+0~~	~~102.98~~				
74+0	100.85			10603	
75+0	104.72		10405		
76+0	102.69		10192		
77+0	101.15		10061		
78+0	99.71		9863		
79+0	99.27		9731		
80+0	98.83		9702		
81+0	95.59		—		
82+0	93.95		9430		
83+0	92.57		9188		
84+0	91.07		8949		
85+0	89.64		8780		
86+0	88.69		8727		
87+0	87.75		8819		
88+0	86.91		8795		
89+0	85.84		8634		
90+0	85.50		8262		
91+0	85.13		8235		
92+0	84.76		~~7795~~		
93+0	84.39		~~7795~~	7955	0870
94+0	84.07		—		
95+0	84.14		8696		
96+0	84.27		8882		

Sta	El Sub Grade	El. of S.R.	Cut	Fill	
97+0	8440	8801			
98+0	8453	8564			
99+0	8461	8411			
100+0	8436	8324			
101+0	8406	8284			
102+0	8376	8309			
103+0	8337	8370			
104+0	8262	8374			
105+0	8178	8098			7975
106+0	8094	7954			
107+0	8010	7843			
108+0	7926	7815			
109+0	7842	7739			
110+0	7758	7728			
111+0	7673	7729			
112+0	7604	7596			
113+0	7534	7312			
113+79	7479	7527			

Jan. 17

Sta	Sth El.	Nur El	Cut	Fill
0	9977	9977	Gd.	
1	9933	9902	0'-4"	
2	9901	9827	0'-9"	
3	9736	9752		0'-2"
4	9902	9677	2'-3"	
5	9824	9602	2'-2¾"	
6	9780	9458	2'-2¾"	
7	9737	9176	5'-7"	
8	9573	8825	7'-6"	
9	9406°	8474	9'-4"	
10	8510	8123	3'-11½"	
11	7070	7772		7'-0¼"
12	6720	7421		7'-0"
13	6798	7070		2'-8¾"
14	6656	6798		2'-5"
15	6578	6687		0'-10"
16	6517	6655		1'-5"
17	6653	6623	0'-3¾"	
18	6308	6591		2'-10"
19	6232	6559		3'-3"
20	6152	6527		3'-9"
21	6154	6495		3'-5"
22	6194	6463		2'-8½"
23	6143	6431		2'-10½"
24	6110	6399		2'-11"

07402
6424
BM 6572
6669

Sta	Sth El.	Nur El	Cut	Fill
25	6107	6364		2'-6¾"
26	6131	6329		1'-11¾"
27	6126	6294		1'-8"
28	6043°	6259		2'-2"
29	6020	6224		2'-0½"
30	6003	6189		1'-10"
31	5954	6197		2'-5"
32	6036	6291		2'-6½"
33	5880	6428		5'-6"
34				
35				

Sta.	El. Sub Grade	El. Cut Grade	Cut	Fill
41+00	77.11	72.92	4'-2¼"	
42+00	78.55	75.28	3'-3¼"	
43+00	79.62	77.64	1'-11½"	
44+00	79.93	79.46	0'-5½"	
45+00	80.11	80.20		0'-1"
46+00	80.64	80.40	0'-3"	
47+00	83.66	80.60	3'-3"	
48+00	82.24	80.80	1'-5¼"	
49+00	83.47	81.00	2'-5½"	
50+00	83.96	81.20	2'-9"	
51+00	83.34	81.40	1'-11¼"	
52+00	81.67	81.60	0'-1"	
53+00	80.71	81.80		0'-1"
54+00	81.40	82.16		0'-9"
55+00	82.25	82.52		0'-3¼"
56+00	84.11	83.97	0'-1¾"	
57+00	85.07	85.60		0'-6¼"
58+00	86.30	87.23		0'-11¼"
59+00	87.83	89.01		1'-2¼"
60+00	94.03	94.48		0'-5½"
62+00	100.57	100.27	0'-3¾"	
64+00	108.46	108.56		0'-1¼"
67+00	113.36	112.79	0'-7"	

8901
8783
77.11 — 1.18
72.92
4.19

11336
11279
5.7
103.27

7855
7528
3.27

8224
8080
1.44

8396
8120
2.76

7962
7764
1.98

8347
8100
247

7993
7946
47

45
07
27
30

8334
8140
194

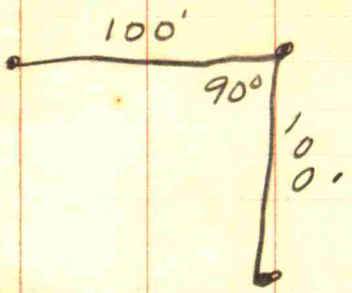
8216
8140
76

8360
8507
53

8411
8397
14

8723
8630
93

Sheets Road



$\frac{D}{100} = \frac{5730}{D} = 57°18'$

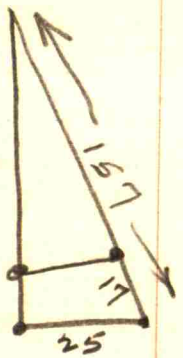
$L = \frac{100 \times 90}{57.3} = 157'$

$E_x = \frac{2373.4}{57.3} = 41.4$

$C = 25'$

$d = 7°10'$

$R = 157' = \text{inside } 20.75' - 19.75$



$100 - 75 = 25 - X$

$157X = 3500$

$100 - 99 = 25 - X$

BROWN Rd,

~~1 L HOWLL~~ HOWLL, ~~3'6" high~~ - 5'-3"

88' x 12" DR. TILE. (W)

18' x 10" ARMCO
2 std L HOWLLS (E)

18' x 10" ARMCO.
2 std L HOWLLS (W)

20' x 10" ARMCO
2 std L HOWLLS (E) Howells

18' x 12" ARMCO
2 std L HOWLLS (E)

28' x 12" ARMCO
2 std L Howells (E) Rd.

18' x 10" ARMCO
2 std L. Howells (W)

18' x 10" ARMCO (E)
2 std L.

18' x 12" Armco. (E)
2 std L.

18' x 12" Armco. (W)
2 std L.

18' x 12" Armco
2 std L. - (E)

18' x 10" armco
2 std L (W)

(18)

101' x 10" armco + Dr Tile
2 std L. (E) Roe Mathis

18' x 12" armco
2 std L. (W)

22' x 12" armco
2 std L. (E)

18' x 10" armco
2 std L. (W)

22' x 10" armco
2 std L (W) Jesse R.

20' x 10" armco (E)
2 std L.

18' x 10" Armco.
2 std L. (E)

18' x 12" armco
2 std L. (E)

18' x 10" armco
2 std L (E)

(18) 94' x 10" armco + Dr. Tile -
2 std L. (W) Hani

20' X 10" Armco. (E)
2 Std L
18' X 10 Armco (W)
2 Std L

Totals:

280' X 10" Armco.
158' X 12" Armco
41.36 Cu. yds. Conc.
.51
41.87 Cu. yds.

Brown Rd tile

489' x 6" on W. side from brush 50 to Bridge - 2+53 - 7+42

26' x 6" across Rd. - Sta 6+0

1015' x 6" on E. side Sta 2+53 - 12+68

212' x 6" - W side - 10+60 + 12+72

268' x 6" - E side 28+18 - 25+50

226' x 6" - W side 28+58 - 30+84

434' x 5" - E. side - 40+93 - 45+27

440' x 5" - W side 40+87 + 45+27

785' x 5" - E. side - 63+37 - 71+22

695' x 5" - W side 63+67 - 70+62

533' x 5" - E side 71+42 - 76+75

628' x 5" - W side 71+32 - 77+60

390' x 5" - W side 77+70 - 81+60

1359' 6" - E. side 80+91 - 94+50

1314' 6" - W side 81+21 - 94+35

40+93
45+27
127
300
564
986

49
28+45
243

71+22
63+37
785

7062
63+67
695

7760
71+32
628

7875
71+42
533

2+40
5+66
8+06

408' x 6" W. side 110+44 – 114+52

596' x 5" E. side 114+54 – 120+50
596' x 5" W. side 114+54 – 120+50

460' x 6" — E. side 123+90 – 128+50
460' x 6" — W side 123+90 – 128+50

114 52
110 44
4 08

120+50
114+54
5 96

Sidewalks N. Indiana Street

BM 100.00
Arrow Head
Fire Hdt Elm

Sdwk E side 0–20 98.20 98.10
" E " 0+00 – 98.04 97.84

Sidewk W side 0–20 98.01
" W " 0+00 97.81

	Est	Dist W	Dist 5.5' W	Dist 8.5' W	Est 11"	Gd 26.5'	Gd 29.5'	Gd 34' W
0+20	97.36	9693	9662	96.36	9677	95.38	96.65	97.00
0+45	96.60	9576	9550	94.58	94.84	9445	93.80	93.62
0+70	94.27	9335	9250	9243	9279	9259	92.08	91.45
0+95	91.43	9065	9028	9060	9095	9041	9016	89.11
1+20	8921	88.69	8846	8912	8955	8899	8884	8659
1+45	8735	8659	8678	87.58	87.95	8718	8643	85.17
1+70	8560	8492	8456	85.81	86.39	8553	8387	8412
1+95	8446	8375	8328	8432	8481	8409	8254	8339
2+20	8320	8261	8245	8326	8364	8271	81.59	8253
2+45	8223	81.61	8174	8218	8213	8145	81.28	8150
2+70	81.10	8080	8104	8102	8135	8042	8032	80.47

Wrap Wire 34' W of Sta 2+35 at 82.01

No. Indiana St.

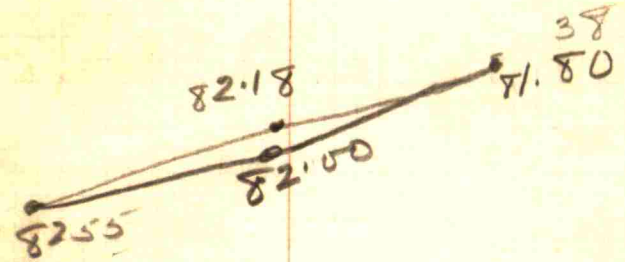
Top Sidewalk back edge

0−20	98.10	
0+0	97.69	V
0+20	96.52	V
0+40	94.60	V
0+70	92.68	V
0+95	90.76	V
1+20	88.84	V
1+37.5	87.91	V
1+45	87.06	V
1+57.5	86.27	V
1+70	85.56	V
1+95	84.19	V
2+20	82.82	V
2+25	82.55	
2+35	82.09	
2+45	81.80	V
2+70	81.30	V

7856
769
37

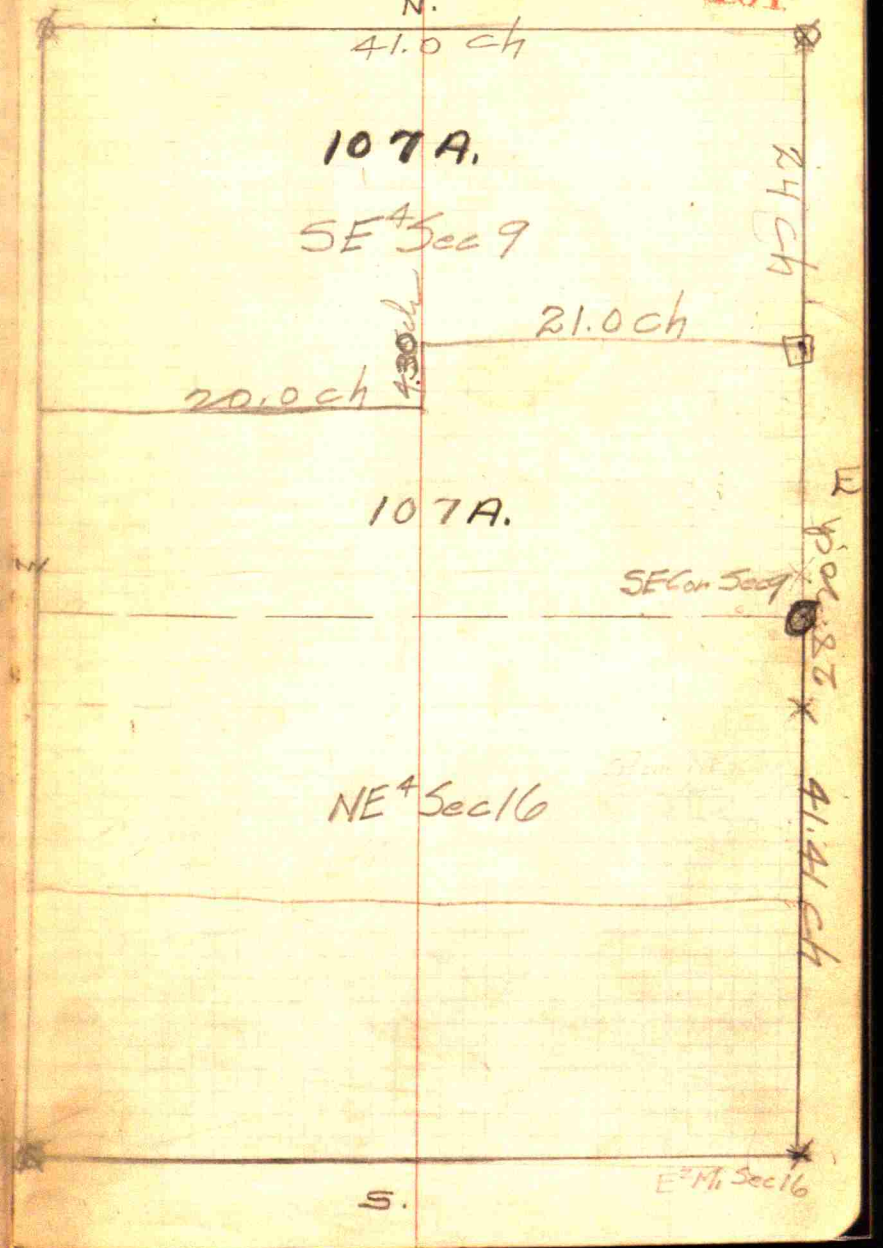
768
170
53760
768
13.056.0

85.00
13.06
98.06

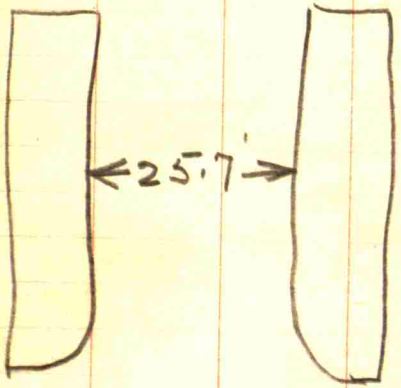


Verrick — Moon Survey

Sec 9+16-14 1E



12.85



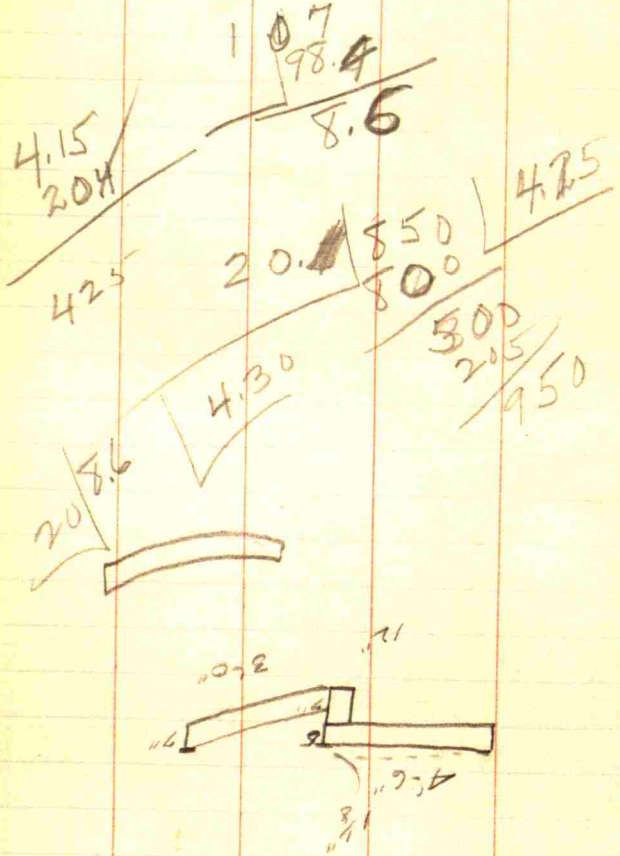
12
7.5
1.0
19.5

9
7.5
2.0
17.5
12.85
4.65

82.4
8242
1800
10042
4500
5542
3
1847.00

160

0+00 – 12+00
69+0 to end.



Natural Trigonometrical Ratios.

Angle.	Sine.	Tan.	Sec.	Cosec.	Cotg.	Cosin.	
0 ′							
0	0	0	1.	∝	∝	1.	90
10	.0029	.0029		343.8	343.8	I.	50
20	.0058	.0058		171.9	171.9	.99998	40
30	.0087	.0087		114.6	114.6	.99996	30
40	.0116	.0116	1.0001	85.94	85.94	.99993	20
50	.0145	.0145	1.0001	68.76	68.75	.99989	10
1	.0175	.0175	1.0002	57.30	57.29	.99985	89
10	.0204	.0204	1.0002	49.11	49.10	.99979	50
20	.0233	.0233	1.0003	42.98	42.96	.99973	40
30	.0262	.0262	1.0003	38.20	38.19	.99966	30
40	.0291	.0291	1.0004	34.38	34.37	.99958	20
50	.0320	.0320	1.0005	31.26	31.24	.99949	10
2	.0349	.0349	1.0006	28.65	28.64	.99939	88
10	.0378	.0378	1.0007	26.45	26.43	.99929	50
20	.0407	.0407	1.0008	24.56	24.54	.99917	40
30	.0436	.0437	1.0010	22.93	22.90	.99905	30
40	.0465	.0466	1.0011	21.49	21.47	.99892	20
50	.0494	.0495	1.0012	20.23	20.21	.99878	10
3	.0523	.0524	1.0014	19.11	19.08	.99863	87
10	.0552	.0553	1.0015	18.10	18.07	.99847	50
20	.0581	.0582	1.0017	17.20	17.17	.99831	40
30	.0610	.0612	1.0019	16.38	16.35	.99813	30
40	.0640	.0641	1.0020	15.64	15.60	.99795	20
50	.0669	.0670	1.0022	14.96	14.92	.99776	10
4	.0698	.0699	1.0024	14.34	14.30	.99756	86
10	.0727	.0729	1.0027	13.76	13.73	.99736	50
20	.0756	.0758	1.0029	13.23	13.20	.99714	40
30	.0785	.0787	1.0031	12.75	12.71	.99692	30
40	.0814	.0816	1.0033	12.29	12.25	.99668	20
50	.0843	.0846	1.0036	11.87	11.83	.99644	10
5	.0872	.0875	1.0038	11.47	11.43	.99619	85
10	.0901	.0904	1.0041	11.10	11.06	.99594	50
20	.0929	.0934	1.0043	10.76	10.71	.99567	40
30	.0958	.0963	1.0046	10.43	10.39	.99540	30
40	.0987	.0992	1.0049	10.13	10.08	.99511	20
50	.1016	.1022	1.0052	9.839	9.788	.99482	10
6	.1045	.1051	1.0055	9.567	9.514	.99452	84
10	.1074	.1080	1.0058	9.309	9.255	.99421	50
20	.1103	.1110	1.0061	9.065	9.010	.99390	40
30	.1132	.1139	1.0065	8.834	8.777	.99357	30
40	.1161	.1169	1.0068	8.614	8.556	.99324	20
50	.1190	.1198	1.0072	8.405	8.345	.99290	10
7	.1219	.1228	1.0075	8.206	8.144	.99255	83
10	.1248	.1257	1.0079	8.016	7.953	.99219	50
20	.1276	.1287	1.0082	7.834	7.770	.99182	40
30	.1305	.1317	1.0086	7.661	7.596	.99144	30
40	.1334	.1346	1.0090	7.496	7.429	.99106	20
50	.1363	.1376	1.0094	7.337	7.269	.99067	10
							82
	Cosin.	Cotg.	Cosec.	Sec.	Tan.	Sine.	Angle.

Angle.	Sine.	Tan.	Sec.	Cosec.	Cotg.	Cosin.	
0 ′							
8	.1392	.1405	1.0098	7.185	7.115	.99027	82
10	.1421	.1435	1.0102	7.040	6.968	.98986	50
20	.1449	.1465	1.0107	6.900	6.827	.98944	40
30	.1478	.1495	1.0111	6.766	6.691	.98902	30
40	.1507	.1524	1.0115	6.636	6.561	.98858	20
50	.1536	.1554	1.0120	6.512	6.435	.98814	10
9	.1564	.1584	1.0125	6.394	6.314	.98769	81
10	.1593	.1614	1.0129	6.277	6.197	.98723	50
20	.1622	.1644	1.0134	6.166	6.084	.98676	40
30	.1650	.1673	1.0139	6.059	5.976	.98629	30
40	.1679	.1703	1.0144	5.955	5.871	.98580	20
50	.1708	.1733	1.0149	5.855	5.769	.98531	10
10	.1736	.1763	1.0154	5.759	5.671	.98481	80
10	.1765	.1793	1.0160	5.665	5.576	.98430	50
20	.1794	.1823	1.0165	5.575	5.485	.98378	40
30	.1822	.1853	1.0170	5.488	5.396	.98325	30
40	.1851	.1883	1.0176	5.403	5.309	.98272	20
50	.1880	.1914	1.0181	5.320	5.226	.98218	10
11	.1908	.1944	1.0187	5.241	5.145	.98163	79
10	.1937	.1974	1.0193	5.164	5.066	.98107	50
20	.1965	.2004	1.0199	5.089	4.989	.98050	40
30	.1994	.2035	1.0205	5.016	4.915	.97992	30
40	.2022	.2065	1.0211	4.945	4.843	.97934	20
50	.2051	.2095	1.0217	4.877	4.773	.97875	10
12	.2079	.2126	1.0223	4.810	4.705	.97815	78
10	.2108	.2156	1.0230	4.745	4.638	.97754	50
20	.2136	.2186	1.0236	4.682	4.574	.97692	40
30	.2164	.2217	1.0243	4.620	4.511	.97630	30
40	.2193	.2247	1.0249	4.560	4.449	.97566	20
50	.2221	.2278	1.0256	4.502	4.390	.97502	10
13	.2250	.2309	1.0263	4.445	4.331	.97437	77
10	.2278	.2339	1.0270	4.390	4.275	.97371	50
20	.2306	.2370	1.0277	4.336	4.219	.97304	40
30	.2334	.2401	1.0284	4.284	4.165	.97237	30
40	.2363	.2432	1.0291	4.232	4.113	.97169	20
50	.2391	.2462	1.0299	4.182	4.061	.97100	10
14	.2419	.2493	1.0306	4.133	4.011	.97030	76
10	.2447	.2524	1.0314	4.086	3.962	.96959	50
20	.2476	.2555	1.0321	4.039	3.914	.96887	40
30	.2504	.2586	1.0329	3.994	3.867	.96815	30
40	.2532	.2617	1.0337	3.949	3.821	.96742	20
50	.2560	.2648	1.0345	3.906	3.776	.96667	10
15	.2588	.2679	1.0353	3.864	3.732	.96593	75
10	.2616	.2711	1.0361	3.822	3.689	.96517	50
20	.2644	.2742	1.0369	3.782	3.647	.96440	40
30	.2672	.2773	1.0377	3.742	3.606	.96363	30
40	.2700	.2805	1.0386	3.703	3.566	.96285	20
50	.2728	.2836	1.0394	3.665	3.526	.96206	10
							74
	Cosin.	Cotg.	Cosec.	Sec.	Tan.	Sine.	Angle.