15+52.1 P.T.

P.I. 15+00 $\Delta = 21°-05'$ L (Diff. 1.2)

$D = 20°-00'$ $T = 53.3$

14+46.7 P.C. $L = 1+05.4$ ok

13+61.3 P.T.

P.I.
13+00 $\Delta = 60°-16'$ L (Diff = 14.3

$D = 44°-00'$

$T = 75.6$ $L = 1+36.9$ ok

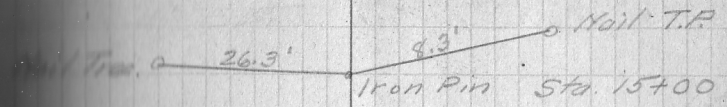
12+24.4 P.C.

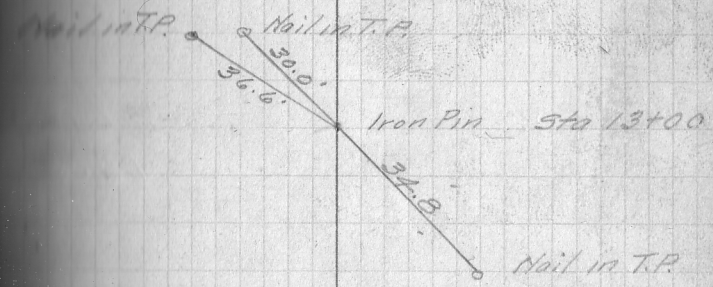
8+54 ℄ 3x1.5' Stone Box Replace 30'

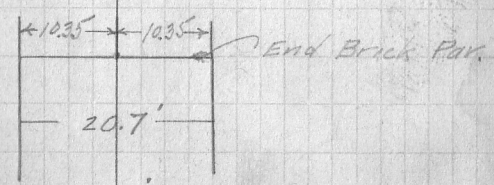
Reinforced Conc. P.

0+00 End Brick Pavement

(True P.I. = 15+00 − 14.3 = 14 + 85.7)







30+65 ℄ Road West.

30+10 15" Rein. Conc. Pipe

29+39.0 P.T.

P.I.
27+77.5 Δ = 6°-28' R (Dif = 0.3)
D = 2°-0.0' T = 161.8
L = 3+23.3'

26+15.7 P.C.

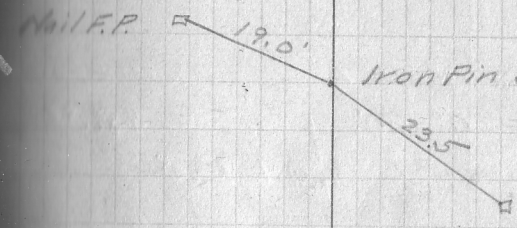
24+90 Stone Box 1'x1' Put in 18"
Rein. Conc. Pipe

19+45.9 P.T.

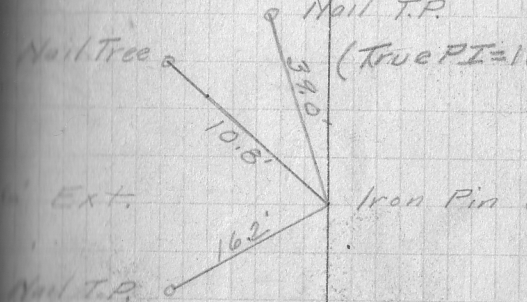
P.I.
18+45.6 Δ = 42°-07' R (Dif = 0.1)
D = 20°-0.0' T = 110.3
L = 2+10.6

17+35.3 P.C.

(True P.I. = 27+77.5-25.5
= 27+52.0)



(True P.I. = 18+45.6-15.5
= 18+30.1)



70+98 21' - 12" Iron Pipe Extend.

65+42.4 P.T.

64+56.8 Δ = 32°-03' R. (Diff -5.8)
D = 18°-00' T = 91.4 ft.
L = 1+77.0

63+65.4 P.C.

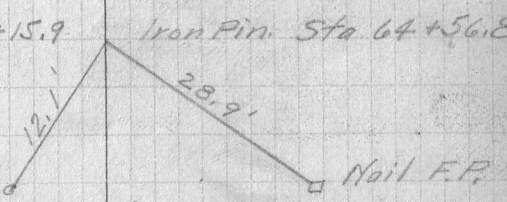
56+60.4 P.T.
Δ 46°08'
41°
T 59.6 Ext 12.0

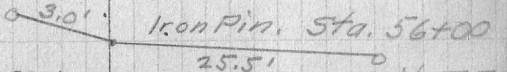
56+00 Δ 46°-13' R (Diff 7.5)
D = 36°-00 T = 67.9 ft
L = 1.+28.3

53+32.1 PC

10' 11'

True P.I. = 64+56.8 - 40.9
= 64+15.9





(True P.I. = 56+00 - 33.4
= 55+66.6)

70+98 21' - 12" Iron Pipe Extend.

65+42.4 P.T.

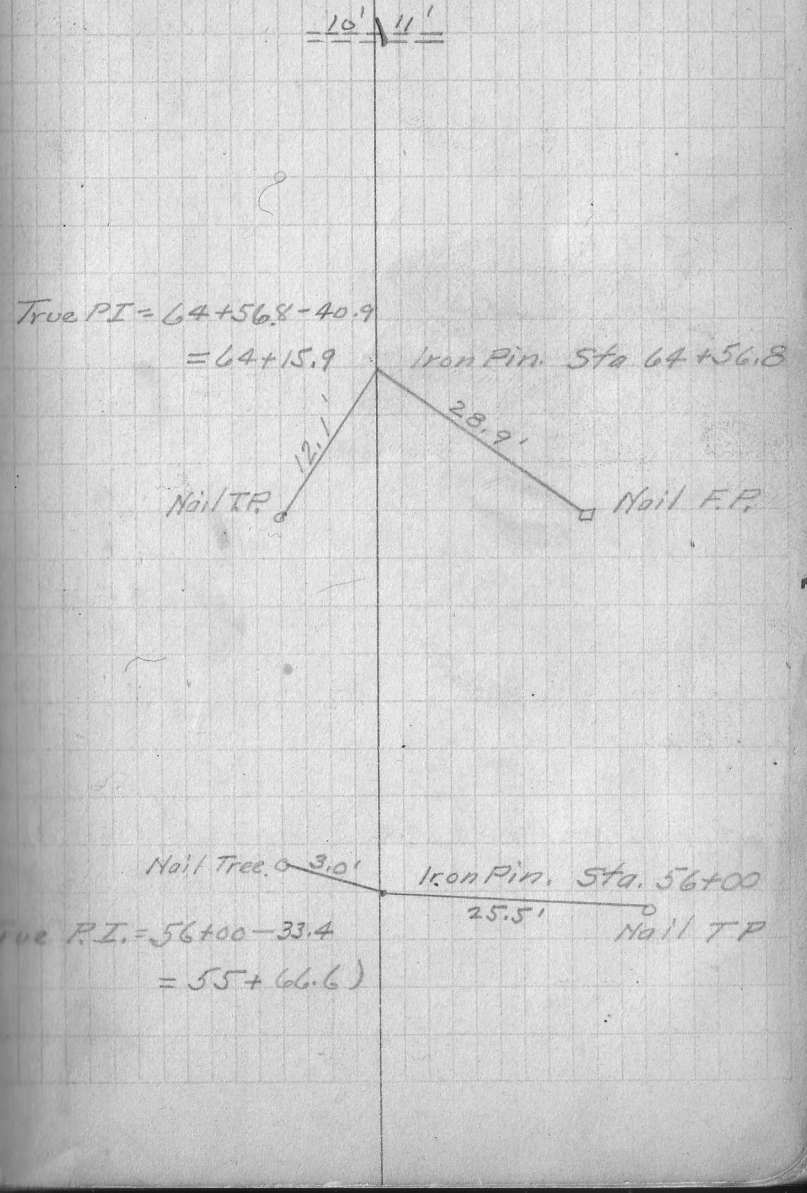
64+56.8 Δ = 32°-03' R. (Diff -5.8)
D = 18°-00' T = 91.4 Sta.
L = 1+77.0

63+65.4 P.C.

56+60.4 P.T.
Δ 46°08'
41° T 59.6 Ext 12.0

56+00 Δ 46°-13' R. (Diff 7.5)
D = 36°-00 T = 67.9 Sta
L = 1+28.3

55+32.1 PC



85+34.0 E End Br

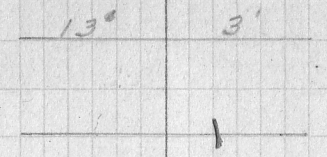
50' Span

84+85.5 W End Br

80+98 ℄ Conc. Br

76+69.9 Δ = 1° - 29' R. (Diff = 0.0)

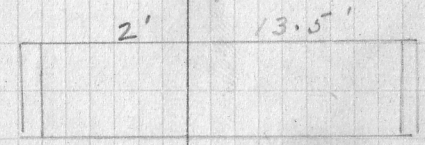
45" Between 5'5 To Ext.

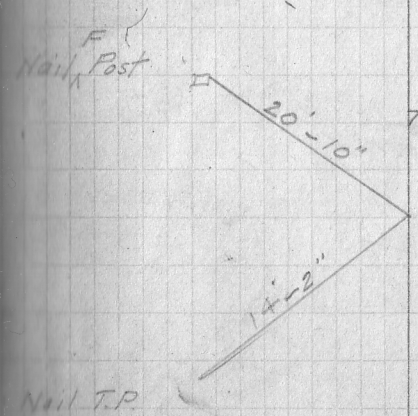


12.8" Bot Creek
Frim Top Floor

Coping 14.5' Length 2.0 High. + Stab

12' Span 2' High





True P.I. = 76+69.6 - 46.7
= 76+22.9

Iron Pin, Sta 76+69.9

98+38 ℄ Br.

92+30 24" Rein. Conc. Pipe.

92+27.2 P.T. Curve run backward.

~~92+19.9 P.T.~~

P.I.
91+40.0 Δ = 40°-07' L (Diff = 7.3)

D = 24-00' T = 87.2

90+60.1 P.C L = 1+67.1

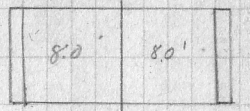
~~90+52.8~~ P.C. Sta. Def. L 50' chord

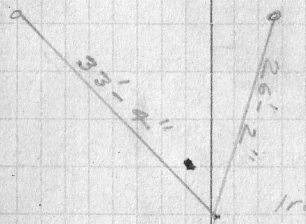
7.3 D.

	92+27.2	00
92		3°16'
	+50	9°16'
91		15°16'
	+60.1	20° 4'

Coping 14.0' L 1' Wide. 2.5' High + Slab

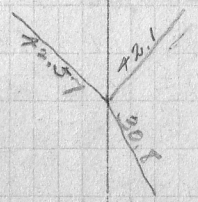
12' Span 4.5' High.





Iron Pin Sta 91+40.0

(True P.I. = 91+40 − 46.7 = 90+93.3



30.8
42.1
42.57

P.I.
120+39.2 Δ = 0° - 02' R (Diff = 0.0)

117+60 15" Rein. Conc Pipe.

103+69 ℄ Road North

103+27.56
~~103+45.3~~ P.T.

103+8 24" Pipe. Rein. Conc Pipe.

P.I.
102+68.1 Δ 49° - 39' R (Diff 11.1)

~~D = 30° 00'~~ ~~T = 88.3~~

~~L = 1+65.5~~

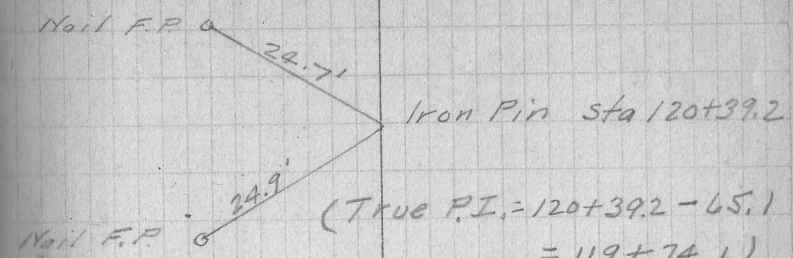
102+00 P.C
~~101+79.8 P.C.~~

D = 38° 55'

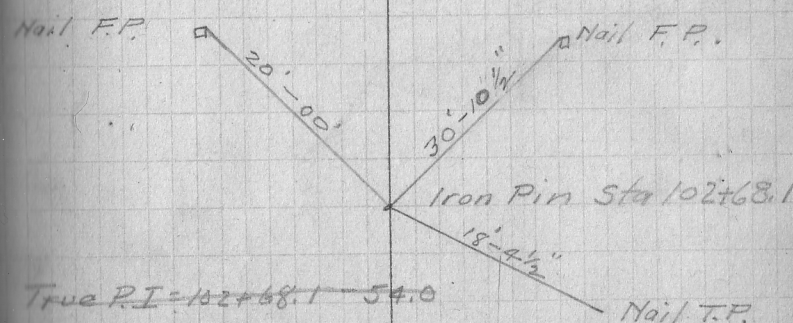
L = 127.56

T = 68.1'

P.C 102+00 - Def. L
+25 - 0° 0
+50 - 4° 5
+75 - 9° 44
103 - 14° 36
+25 - 19° 20
+27.56 - 24° 5



(True P.I. = 120+39.2 - 65.1
= 119+74.1)



~~True P.I = 102+68.1 - 54.0~~
~~= 102+14.1~~

137+95	12" Iron Pipe	Extend.	24'		
P.I. 136+23.6	Δ = 0°-20'	R.	(Diff=0.0)		
128+31	℄ Br.	Conc Flat Top. No Coping.			

10' 14'

Nail F.P.

20'-11"

Iron Pin Sta 136+23.6

23'-7"

Nail F.P.

Line P.I = 136+23.6 −65.1
= 135+58.5

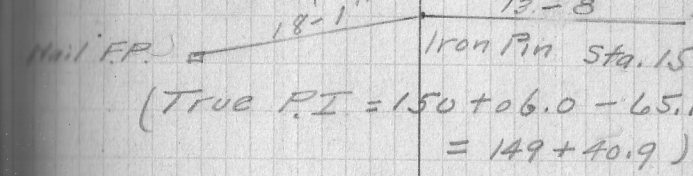
2'-0" Deep
1'-0" Slab.

7 9 — 12'-0' Span

7 9

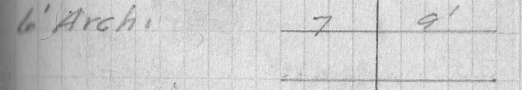
151+05 24" Rein. Conc Pipe

P.I.
150+06.0 Δ = 0°-55' L Diff=0.0



(True P.I. = 150+06.0 - 65.1
= 149+40.9)

149+18 ℄ Br. 6' Arch. Circular.



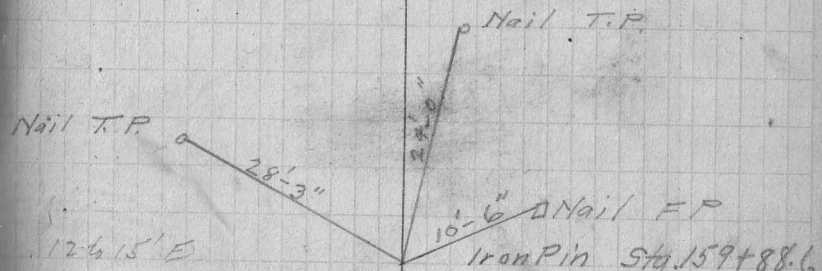
6" to Spring Line
10 Rise Extend.

168+12 20' 12" Iron pipe Extend

163+00 24" Rein. Conc. Pipe.

PI
159+88.6 Δ = 35° 03' L Diff.

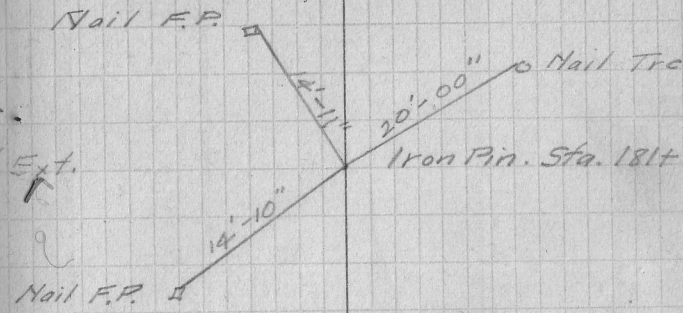
11' 9'



True P.I. 159+88.6 - 65.1
= 159+23.5)

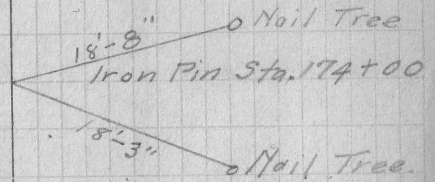
185+06 ℄ Br. 5x3 Waterway Replace

P.I.
181+63.5 Δ = 9°-15' R



174+00 Δ = 8°-17' R

5 or 6

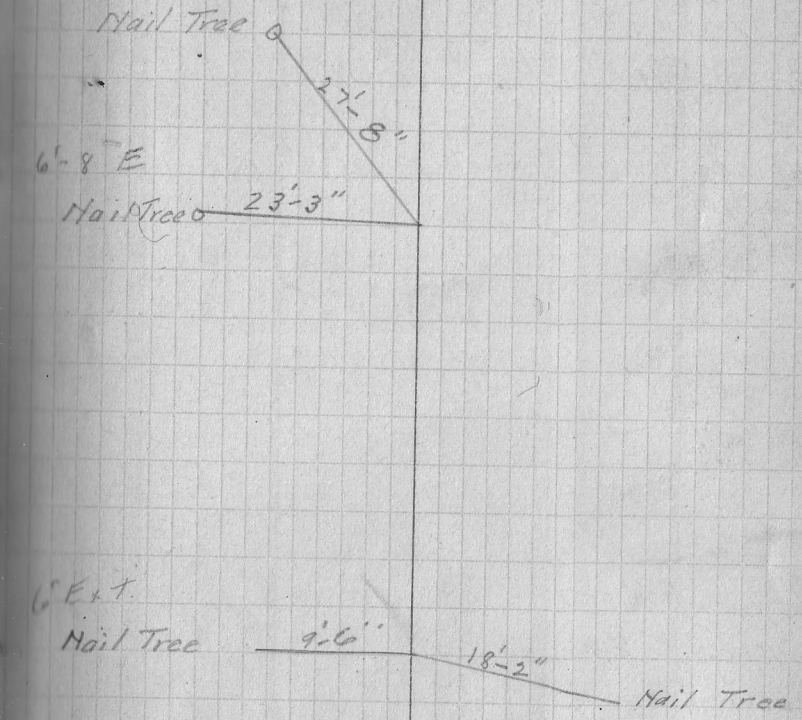


170+00 Trees Begin

202+43 ℄ Road South to McCoy Park

200+55.5 Δ = 11° 32' L

195+00 Δ = 4° - 37' R



221+30.01

218+90 15" Rein. Conc Pipe.

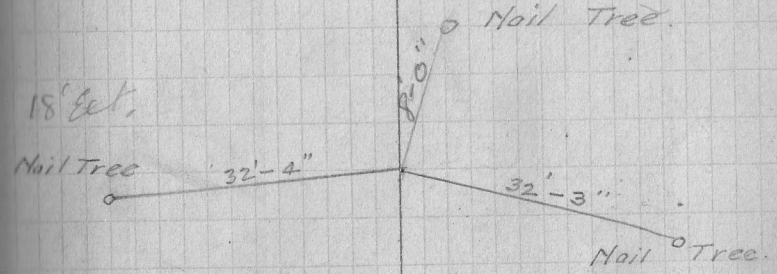
213+35 Br. New 18' Rdwr

207+30 ℄ Br. Etent to L

203+76.1 Δ = 46° - 18' L
D = 30° - 00'

Coping 4' High - Sl

10' Span 7 9' 6' High. - Stab.

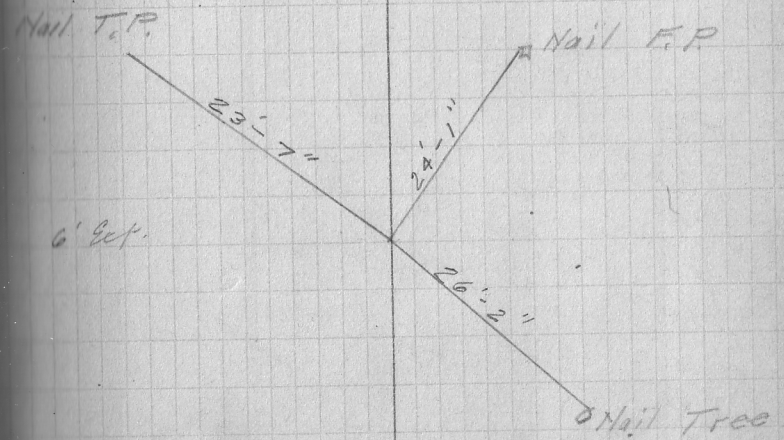


240+00 18" Rein Conc Pipe

226+25 ℄ Road North.

223+00 18" Rein. Conc Pipe.

221+30.1 Δ = 9° - 57' R.



P.T. = 249+98.3

248+99.5 Δ = 41°-26' R.

D = 27° 05'

L = 152.95'

Sta.	Def. L
P.C. 24979.5	00
24950.0	4° 00'
24900.0	10° 47'
24850.0	17° 34'
P.T. 24826.55	20° 44'

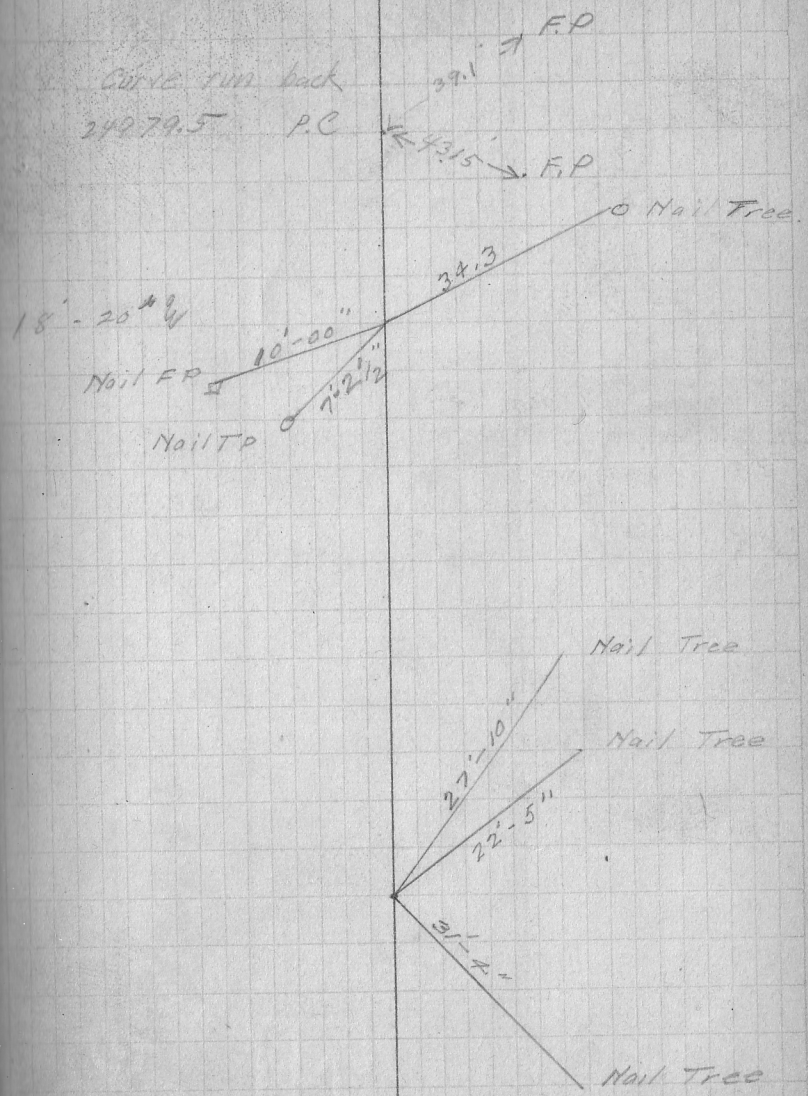
248+70 24" Rein Conc Pipe.

P.C. 247+91.2

242+80.2 Δ = 7°-10' R

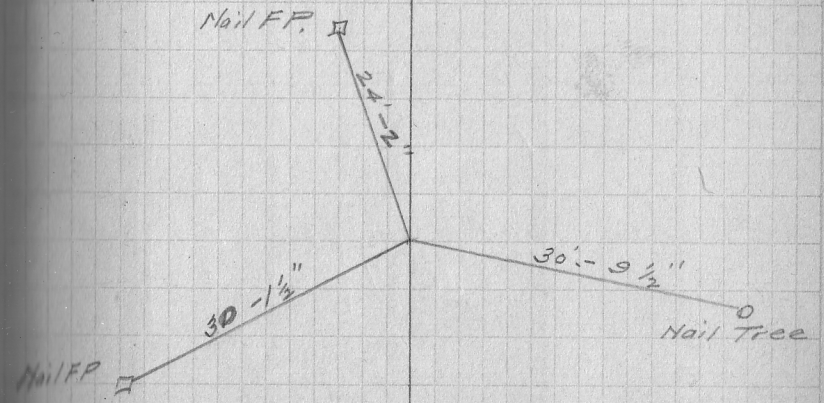
Curve run back

24979.5 P.C



259+20 End of project.

259+00 ℄ Road ℄



tan = 85

25.4953

85) 2167.1
170
467
425
421
340
810
765
450
425
250

3.187
8) 25.495
24
14
8
69
64
5

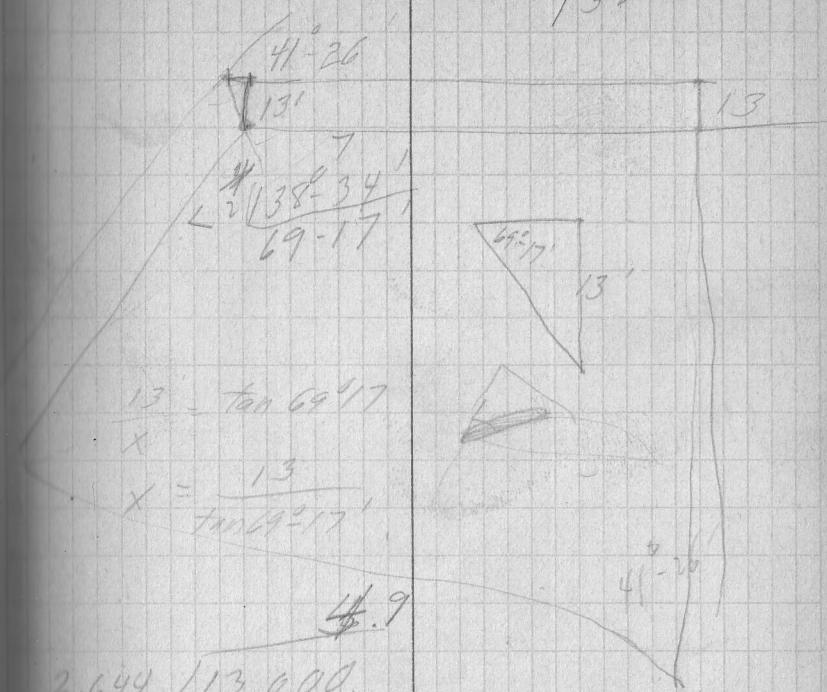
D = 25.495
∠ 25° 30'

Sta.	Def. L.
P.C.	0 00
+25	3° 11
+50	6° 22
+75	9° 33
1	12° 44
+25	15° 56
+50	19° 07
+62.51	20° 43

259 + 20
11 20
248 00

250 + 50
70.9
P.C 24979.1
24800
179.1
152.95
26.15

180°
41 26
138° 34



∠ 138°-34'
69-17'

$\frac{13}{x} = \tan 69°17$

$x = \frac{13}{\tan 69°17'}$

4.9

2.644) 13000
10576
24240
23796

1° 35
3° 11
4° 46

1.62,51

.1275
25.495) 41.433
25495
159380
152970
64100
50990
131100
127475
36,250

12,51
75

3.187
12,51
.127
8557
2502
1251
158677

1° 35

128	8.57	8.57		
+	7.84	7.86		
127	7.24	7.14	7.43	
+	6.44	6.30	6.57	
126	5.50	5.37	5.60	
+	4.52	4.32	4.52	
125	3.52	3.52	3.64	
+	2.52	2.30		
124	1.52	1.72	1.48	
+	0.52	0.25		
~~+~~				
+	9.33	~~8.32~~		
123	8.32	8.32		
+	7.34	7.50	7.44	
122	6.34	6.50	6.34	
+	5.35	5.44	5.42	
121	4.35	4.37	4.30	
+	3.34	3.40		
120	2.35	2.82		

597 ft 1

1315 ft 2

137 ft 3

136 ft 4

100 ft 5

457 ft 6

130 ft 7

270 ft 8

223 ft 9

780 ft 10

100 11

75 12

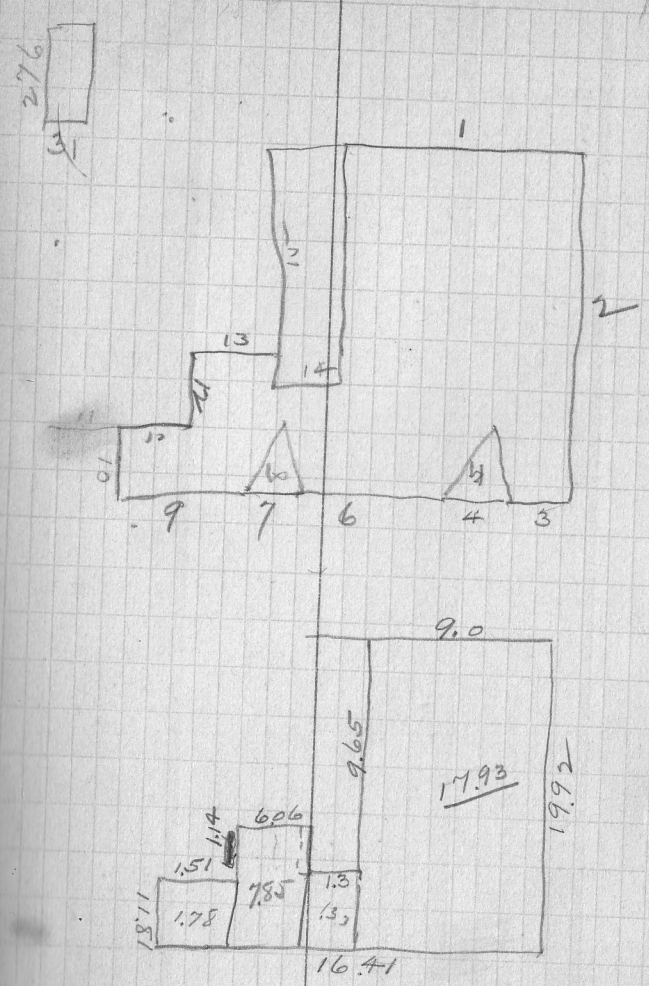
~~400~~ 13

85 14

637 N

31 9.0
1.3
6.06
1.51
17.87

6.06
66/400
396
400
1.14
66/75
66
90
66
240
4.3
66/85
66
190
198
1.51
9.65
66/100
66
340
330
100
66/6.37
594
430
396
340
223
130
457
136
137 1641
66/1088
66
428
396
270
264
6
1991
66/1315
1188
627
594
610
594
16
1121
66/780
66
120
66
540
528
90
66/597
594
300



BM	4.61				
259+20					
259					
258					
257					
0	1.11			6.66	
256					
255					
0	2.19			6.11	
254					
253					

5.9
12

Spike maple 258+50 30' R

52

3.4
100

47

50 5.2 13 6.8 16 6.2 23

6.8
12

46

34
13

40 4.0 10 5.6 12 5.0 21

6.0

2.9

5.9
12

5.0
7

5.0 5.3
8

7.5
13

8.0
17

7.1
19

5.1
25

252					
0	2.17			6.99	
251					
250					
0	2.30			6.96	
BM				3.73	

68
~~68~~

4.8	5.2	5.0	50	6.8	6.7
20	14		6	9	20

7.3	73	7.3	73	85
20	8		10	30

Post opp 49

5.7 pipe

```
      1641
      1992
    -------
      3282
    14769
  14769
  1641
  -------
  32688 72
```

Ta 65 + 48.2
65 + 23.2
64 + 98.2
64 + 73.2
64 + 48.2
64 + 23.2
63 + 98.2
63 + 73.2

16°-10'
5°4