

FIELD BOOK

360

No. 164

Job 30-301

County Aid Road #14

Page 1-5 Transit Notes.

7-14 Level Notes.

Job 295 County Aid Road No 1

Page 17 To 20 Transit Notes.

22 To

C.A.R. #14 Job 301
T136N. R29W LOON LAKE

21+90 End Swamp R/L

20

15

10

5

0+00 Beg of Project Sec. Cor. Iron Pipe
Beg. S.A.R. #1 N.W. Cor Sec. 14 - 136-30

Wild Land

Garden

20+25

FE

+85

Farm Yd.

21+90

Pasture

20+50

Swamp
Peat.

7+46

Pasture

Rp { 4" Pop 908 NW
8" Oak 766 SW

Inp.

S.A.R. #1

Wild
land.

+87

Wild Land

Swamp
Peat

13+29

Swamp
Peat

7+46

Pasture

+20

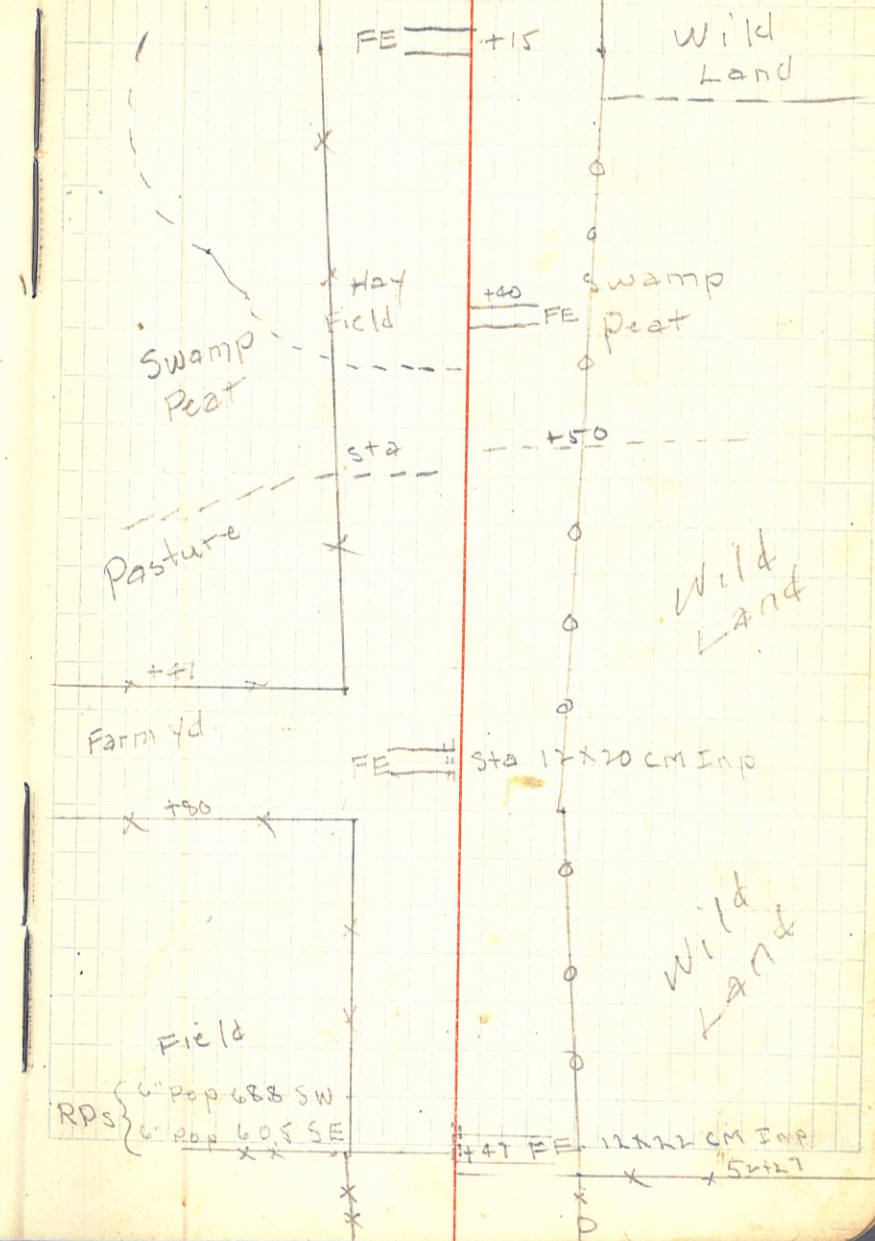
+80

73

64

56

52+46.6 Sec Cor Iron pipe Inp $\Delta 0^\circ 21' R$



RPs { 6" pop 688 SW
6" pop 605 SE

Sta 12 x 20 cm Inp

52+47

(4)

103

99

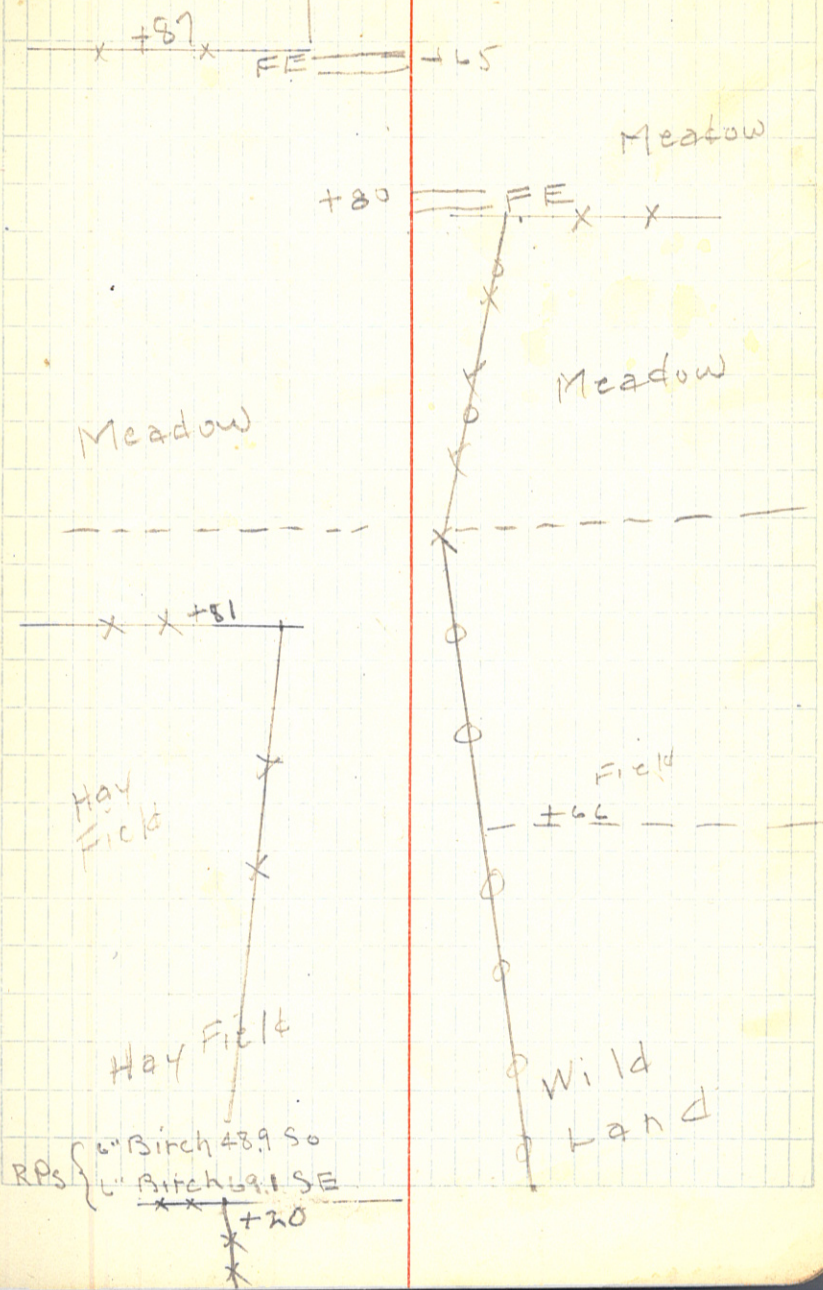
95

90

86

79+19.7 1/4 Cor $\Delta 0^{\circ}05'R$ Iron Pipe Imp

Pasture



(5)

124

POT

116

POT

112

111

106+028

Δ 0-52' R No Mon.

5

118+32
FL 33

Wild Land

RPS { 10" Pine 247 N
10" Poplar 568 NW

RP { FP 27 SE FE = +53
FP 49 NE FE = 116+00

Field

FE
114+60 End Feb 26

Field FE = +41

Wild Land

RPS { 6" J. Pine 407 SE 106+83
1" J. Pine 488 NE
105+80
22' L

106+83

105+73

28' R

① Levels Co. Aid. No. 14 Oct 8-1929

Job 301

Prudlo
Troy
Mast
Rod
Chain

B.M.	2.23	130223		1300.00
0-200			62	960
0-100			82	940
0-40			8.0	942
0+00			5.5	96.7
+30			7.2	95.0
	0.16	9058	11.81	904.2
1+00			1.5	89.1
+50			5.1	85.5
2+00			7.6	83.0
3+00			8.5	82.1
4+00			8.5	82.1
	2.43	8441	8.60	819.8
5+00			3.4	81.0
6+00			6.8	77.6
7			10.1	74.3
	2.45	7711	9.75	746.6
+50			4.1	73.0
8			4.7	72.4
9			5.0	72.1
10			5.0	72.1
+50			5.3	71.8
11			6.2	70.9
12			7.2	69.9
BM			6.90	70.11

4" Birch 75' S.W. D+00

					62
					82
	$\frac{132}{40}$	$\frac{107}{28}$	$\frac{100}{19}$	$\frac{88}{12}$	80
		$\frac{55}{300}$	$\frac{159}{200}$	$\frac{107}{100}$	5.5
	$\frac{157}{15}$	$\frac{155}{45}$	$\frac{140}{32}$	$\frac{130}{24}$	$\frac{85}{17}$
					72
					77
					79
					80
					81
					82
					83
					84
					85
					86
					87
					88
					89
					90
					91
					92
					93
					94
					95
					96
					97
					98
					99
					100

6" Poplar 100' L 10+50

8

7711

13			84	68.7
	439	7302	848	136.863
14			43	68.7
15			45	68.5
16			4.5	68.5
17			5.1	67.9
18			5.3	67.7
19			5.4	67.6
18+52	18" x 20' CMC	New 10' R 10' L		
	610	7351	5.55	67.47
20			6.2	67.4
21			5.5	68.1
B.M			7.17	69.0
22			4.6	69.0
23			2.9	70.7
	1143	8192	3.68	70.49
24			7.9	74.0
25			5.2	76.7
	1141	9210	12.3	80.69
26			8.7	83.4
	1062	0187	0.85	91.25
27			10.6	91.3
2+50			7.4	94.5
28			5.7	96.2
29			3.6	98.3

levels for offtake

$\frac{97}{30}$	$\frac{97}{20}$	$\frac{96}{13}$	$\frac{102}{11}$	$\frac{87}{8}$	8.4	$\frac{26}{9}$	$\frac{97}{12}$	$\frac{94}{17}$	$\frac{93}{30}$
$\frac{59}{30}$	$\frac{40}{23}$	$\frac{57}{15}$	$\frac{65}{14}$	$\frac{54}{10}$	4.3	$\frac{49}{8}$	$\frac{66}{12}$	$\frac{59}{14}$	$\frac{59}{30}$
$\frac{61}{36}$	$\frac{61}{22}$	$\frac{60}{14}$	$\frac{65}{11}$	$\frac{53}{9}$	4.5	$\frac{50}{8}$	$\frac{61}{12}$	$\frac{55}{14}$	$\frac{60}{27}$
L	$\frac{55}{25}$	$\frac{59}{15}$	$\frac{64}{13}$	$\frac{52}{9}$	4.5	$\frac{52}{8}$	$\frac{68}{12}$	$\frac{59}{14}$	$\frac{57}{30}$
	$\frac{63}{30}$	$\frac{62}{17}$	$\frac{69}{13}$	$\frac{59}{10}$	5.1	$\frac{55}{8}$	$\frac{70}{11}$	$\frac{64}{13}$	$\frac{65}{30}$
	$\frac{69}{31}$	$\frac{64}{16}$	$\frac{71}{14}$	$\frac{65}{12}$	5.3	$\frac{57}{7}$	$\frac{65}{10}$	$\frac{72}{12}$	$\frac{66}{14}$
	$\frac{73}{30}$	$\frac{68}{30}$	$\frac{70}{13}$	$\frac{60}{8}$	5.4	$\frac{61}{8}$	$\frac{74}{12}$	$\frac{68}{14}$	$\frac{67}{30}$
	$\frac{72}{100}$	$\frac{74}{200}$	$\frac{74}{300}$	$\frac{74}{400}$	7.7	$\frac{77}{606}$	$\frac{77}{700}$	$\frac{83}{800}$	
	$\frac{73}{30}$	$\frac{72}{15}$	$\frac{77}{12}$	$\frac{69}{10}$	6.2	$\frac{69}{9}$	$\frac{80}{11}$	$\frac{73}{13}$	$\frac{72}{27}$
V	$\frac{58}{24}$	$\frac{60}{18}$	$\frac{68}{16}$	$\frac{67}{15}$	5.5	$\frac{60}{9}$	$\frac{70}{12}$	$\frac{65}{14}$	$\frac{64}{30}$
	8" Tam. 50' L 21+50								
	$\frac{36}{50}$	$\frac{38}{21}$	$\frac{65}{18}$	$\frac{58}{14}$	4.6	$\frac{52}{10}$	$\frac{62}{13}$	$\frac{54}{14}$	$\frac{58}{24}$
	$\frac{26}{30}$	$\frac{26}{19}$	$\frac{48}{16}$	$\frac{40}{13}$	2.9	$\frac{36}{9}$	$\frac{43}{12}$	$\frac{36}{14}$	$\frac{36}{30}$
	$\frac{84}{30}$	$\frac{77}{19}$	$\frac{88}{16}$	$\frac{85}{13}$	7.9	$\frac{82}{9}$	$\frac{87}{12}$	$\frac{74}{15}$	$\frac{80}{26}$
	$\frac{45}{33}$	$\frac{51}{20}$	$\frac{60}{18}$	$\frac{60}{15}$	5.2	$\frac{54}{8}$	$\frac{67}{10}$	$\frac{74}{13}$	$\frac{83}{22}$
	$\frac{61}{30}$	$\frac{67}{19}$	$\frac{96}{13}$	$\frac{90}{10}$	8.7	$\frac{91}{7}$	$\frac{99}{10}$	$\frac{99}{15}$	$\frac{105}{21}$
	L0	$\frac{78}{26}$	$\frac{82}{17}$	$\frac{112}{12}$	10.6	$\frac{111}{7}$	$\frac{120}{11}$	$\frac{114}{14}$	$\frac{95}{18}$
	$\frac{54}{33}$	$\frac{57}{26}$	$\frac{64}{17}$	$\frac{72}{9}$	7.4	$\frac{78}{8}$	$\frac{85}{11}$	$\frac{83}{14}$	$\frac{68}{26}$
	$\frac{43}{31}$	$\frac{43}{21}$	$\frac{58}{17}$	$\frac{53}{13}$	5.7	$\frac{64}{9}$	$\frac{67}{12}$	$\frac{65}{14}$	$\frac{51}{17}$
	$\frac{34}{30}$	$\frac{34}{22}$	$\frac{50}{20}$	$\frac{41}{16}$	3.2	$\frac{42}{8}$	$\frac{52}{12}$	$\frac{43}{14}$	$\frac{46}{23}$

⑨		0187		
30			41	97.8
31			58	96.1
	1.85	97.84	588	139590
32			37	94.1
BM			148	
33			60	91.8
34			71	90.7
35			70	90.8
	2.47	93.10	721	9063
36			30	90.1
37			44	88.7
38			55	87.6
39			62	86.9
40			79	85.2
	1.38	86.53	795	85.15
41			50	81.5
42			70	79.5
43			77	78.8
	3.42	82.45	750	7903
+50			27	79.8
44			32	79.3
45			48	77.7
46			79	74.6
47			114	71.1
BM			740	
	2.06	72.87	1114	70.81

$\frac{33}{30}$	$\frac{35}{21}$	$\frac{49}{19}$	$\frac{45}{15}$	4.1	$\frac{44}{9}$	$\frac{57}{14}$	$\frac{47}{15}$	$\frac{50}{20}$	$\frac{49}{27}$	
				58	20					
				3.7						
				10" Oak 110' L	32+20					
					60					
					7.1					
					70					
					30					
					44					
					5.5					
$\frac{68}{50}$	$\frac{65}{19}$	$\frac{80}{16}$	$\frac{66}{11}$	6.2	$\frac{65}{9}$	$\frac{80}{14}$	$\frac{64}{17}$	$\frac{62}{27}$	L	
	$\frac{77}{30}$	$\frac{75}{17}$	$\frac{97}{14}$	$\frac{85}{11}$	7.9	$\frac{82}{8}$	$\frac{97}{13}$	$\frac{104}{15}$	$\frac{80}{20}$	$\frac{80}{30}$
$\frac{51}{50}$	$\frac{49}{18}$	$\frac{71}{15}$	$\frac{67}{13}$	$\frac{55}{9}$	5.0	$\frac{53}{9}$	$\frac{72}{13}$	$\frac{58}{16}$	$\frac{55}{30}$	
	$\frac{84}{30}$	$\frac{81}{14}$	$\frac{82}{10}$	$\frac{74}{L}$	7.0	$\frac{74}{9}$	$\frac{83}{11}$	$\frac{94}{15}$	$\frac{86}{17}$	$\frac{89}{20}$
$\frac{82}{30}$	$\frac{81}{18}$	$\frac{91}{15}$	$\frac{88}{13}$	$\frac{80}{9}$	7.7	$\frac{80}{9}$	$\frac{95}{15}$	$\frac{87}{17}$	$\frac{84}{30}$	
$\frac{26}{50}$	$\frac{28}{18}$	$\frac{46}{16}$	$\frac{42}{13}$	$\frac{32}{9}$	2.7	$\frac{33}{10}$	$\frac{49}{15}$	$\frac{35}{17}$	$\frac{35}{30}$	
	$\frac{20}{30}$	$\frac{27}{18}$	$\frac{49}{14}$	$\frac{36}{11}$	3.2	$\frac{34}{9}$	$\frac{47}{13}$	$\frac{54}{15}$	$\frac{42}{17}$	$\frac{44}{30}$
	$\frac{36}{50}$	$\frac{40}{19}$	$\frac{62}{16}$	$\frac{48}{11}$	4.8	$\frac{50}{10}$	$\frac{59}{13}$	$\frac{65}{15}$	$\frac{52}{17}$	$\frac{55}{20}$
$\frac{64}{30}$	$\frac{70}{18}$	$\frac{96}{16}$	$\frac{96}{14}$	$\frac{83}{11}$	7.9	$\frac{81}{11}$	$\frac{95}{15}$	$\frac{95}{17}$	$\frac{78}{18}$	$\frac{85}{20}$
	$\frac{107}{18}$	$\frac{110}{19}$	$\frac{133}{15}$	$\frac{124}{11}$	11.4	$\frac{115}{11}$	$\frac{131}{15}$	$\frac{119}{17}$	$\frac{123}{20}$	L
					5" Poplar 45' R 45+20					

(10)

137287

48			36	693
49			51	678
50			54	675
51			58	671
	4.74	7166	595	6692
52			49	668
53			49	668
54			57	660
+50			55	662
55			61	656
	211	6757	620	6546
55+50			40	636
56			46	630
57			59	617
+60			62	614
BM			74	6015
58			73	603
	346	6359	744	6013
+70			40	596
59			36	600
60			72	564
61			86	550
	0.85	5594	850	5509
62			59	500
+50			80	479
	1.14	49.23	785	4809

$\frac{35}{30}$	$\frac{36}{16}$	$\frac{48}{13}$	$\frac{45}{9}$	$\frac{38}{6}$	36	$\frac{42}{12}$	$\frac{58}{17}$	$\frac{48}{20}$	$\frac{51}{29}$	
$\frac{50}{29}$	$\frac{50}{18}$	$\frac{58}{14}$	$\frac{58}{10}$	$\frac{52}{7}$	51	$\frac{49}{12}$	$\frac{60}{15}$	$\frac{67}{18}$	$\frac{52}{21}$	$\frac{57}{30}$
$\frac{62}{30}$	$\frac{58}{21}$	$\frac{69}{16}$	$\frac{66}{12}$	$\frac{57}{7}$	54	$\frac{55}{11}$	$\frac{62}{15}$	$\frac{71}{18}$	$\frac{52}{21}$	$\frac{51}{30}$
$\frac{61}{20}$	$\frac{58}{21}$	$\frac{76}{14}$	$\frac{69}{11}$	$\frac{62}{7}$	58	$\frac{61}{11}$	$\frac{72}{16}$	$\frac{61}{20}$	$\frac{62}{30}$	

$\frac{50}{30}$	$\frac{50}{24}$	$\frac{54}{15}$	$\frac{69}{13}$	$\frac{62}{10}$	$\frac{54}{7}$	49	$\frac{54}{12}$	$\frac{63}{16}$	$\frac{59}{20}$	$\frac{53}{22}$	60	
$\frac{50}{30}$	$\frac{53}{22}$	$\frac{50}{15}$	$\frac{66}{11}$	$\frac{58}{8}$	49	$\frac{52}{11}$	$\frac{61}{15}$	$\frac{66}{18}$	$\frac{52}{20}$	$\frac{52}{30}$		
$\frac{65}{30}$	$\frac{62}{17}$	$\frac{76}{13}$	$\frac{69}{10}$	$\frac{61}{7}$	57	$\frac{60}{11}$	$\frac{70}{14}$	$\frac{74}{17}$	$\frac{62}{19}$	$\frac{62}{30}$		
60	$\frac{66}{24}$	$\frac{62}{17}$	$\frac{80}{14}$	$\frac{69}{11}$	$\frac{60}{8}$	55	$\frac{61}{10}$	$\frac{68}{13}$	$\frac{77}{16}$	$\frac{58}{19}$	$\frac{59}{30}$	
$\frac{72}{28}$	$\frac{68}{23}$	$\frac{62}{15}$	$\frac{91}{12}$	$\frac{74}{10}$	$\frac{65}{7}$	61	$\frac{64}{11}$	$\frac{73}{14}$	$\frac{80}{15}$	$\frac{54}{18}$	$\frac{50}{26}$	$\frac{44}{30}$

$\frac{53}{30}$	$\frac{53}{15}$	$\frac{58}{12}$	$\frac{50}{9}$	$\frac{42}{7}$	40	$\frac{43}{12}$	$\frac{53}{15}$	$\frac{55}{18}$	$\frac{28}{23}$	$\frac{23}{30}$
60	$\frac{51}{22}$	$\frac{50}{14}$	$\frac{62}{12}$	$\frac{50}{7}$	46	$\frac{50}{11}$	$\frac{61}{16}$	$\frac{39}{19}$	$\frac{37}{28}$	
60	$\frac{50}{25}$	$\frac{55}{14}$	$\frac{69}{11}$	$\frac{62}{8}$	59	$\frac{66}{10}$	$\frac{84}{16}$	$\frac{91}{24}$	$\frac{98}{32}$	
$\frac{48}{22}$	$\frac{51}{15}$	$\frac{76}{10}$	$\frac{65}{7}$	62	$\frac{68}{11}$	$\frac{84}{16}$	$\frac{72}{19}$	$\frac{80}{26}$	60	

10" Poplar 70' R 57+50
 $\frac{80}{50}$ $\frac{80}{17}$ $\frac{90}{13}$ $\frac{74}{7}$ 73 $\frac{78}{11}$ $\frac{92}{17}$ $\frac{82}{19}$ $\frac{79}{30}$

$\frac{64}{30}$	$\frac{59}{21}$	$\frac{52}{16}$	$\frac{62}{14}$	$\frac{43}{7}$	40	$\frac{40}{10}$	$\frac{53}{15}$	$\frac{40}{18}$	$\frac{34}{30}$
	$\frac{62}{29}$	$\frac{52}{18}$	$\frac{68}{15}$	$\frac{39}{7}$	36	$\frac{42}{9}$	$\frac{55}{14}$	$\frac{58}{19}$	
$\frac{77}{30}$	$\frac{73}{22}$	$\frac{96}{18}$	$\frac{85}{15}$	$\frac{73}{9}$	72	$\frac{74}{11}$	$\frac{79}{17}$	$\frac{65}{21}$	$\frac{62}{30}$
$\frac{123}{32}$	$\frac{106}{25}$	$\frac{123}{19}$	$\frac{112}{15}$	$\frac{89}{9}$	86	$\frac{90}{11}$	$\frac{97}{20}$	$\frac{70}{26}$	$\frac{68}{36}$

$\frac{76}{31}$	$\frac{72}{25}$	$\frac{62}{19}$	$\frac{64}{10}$	59	$\frac{62}{15}$	$\frac{65}{17}$	$\frac{61}{20}$	$\frac{61}{30}$
$\frac{148}{30}$	$\frac{126}{26}$	$\frac{124}{16}$	$\frac{85}{9}$	80	$\frac{81}{11}$	$\frac{94}{19}$	$\frac{100}{21}$	$\frac{94}{30}$

1349.23

63			25	46.7
64			56	43.6
65			76	41.6
BM	5.55	46.30	84.6	40.77
66			49	41.4
67			47	41.6
68			45	41.8
69			56	40.7
70			70	39.3
71			76	38.7
	5.68	44.35	7.65	38.67
72			50	39.4
73			42	40.2
74			47	39.7
75			49	39.5
76			6.1	38.3
+33	30 x 30 New	15' R 15' L		Creek Dr. N.
77			6.0	38.4
	5.96	44.31	6.00	38.35
78			54	38.9
79			50	39.3
80			50	39.3
81			5.3	39.0
82			56	38.7
83			6.3	38.0
BM	5.55		5.54	38.77
	5.38	43.88	5.81	38.50

LO	83/24	69/22	57/15	28/9	2.5	26/17	44/24	50/35
	83/30	72/25	67/14	62/11	56	56/14	81/23	82/30
LO	105/21	100/15	87/12	76	80/10	97/15	183/21	106/30
8" Poplar 85' L 63+80								
LO	73/26	71/16	56/10	49	52/10	68/15	73/21	71/30
LO	62/26	73/22	73/17	52/13	47	53/13	80/17	80/21
LO	49/26	75/23	74/18	48/13	45	51/13	82/17	80/23
LO	67/29	87/24	83/17	64/14	56	63/13	90/17	90/21
LO		94/24	100/19	80/15	70	82/13	101/18	101/21
LO	102/33	102/24	95/17	81/14	76	84/12	97/13	97/20
LO	65/28	82/23	80/19	58/14	50	54/14	80/17	83/22
LO	43/31	66/26	64/19	45/14	42	49/13	78/18	74/24
LO	52/32	77/29	73/20	50/14	47	53/12	82/17	86/26
LO	77/34	84/29	83/18	55/15	49	57/12	92/17	94/23
		86/30	83/19	60/14	61	64/10	90/14	95/30
			106/100		100			
	80/33	82/26	50/23	68/15	60	65/12	90/17	93/21
	78/32	76/21	62/15	54	61/13	87/18	84/24	83/30
	70/31	67/22	57/17	50	55/13	70/18	59/23	LO
	66/31	63/23	54/19	50	57/13	69/16	62/20	57/24
55/31	70/28	67/24	56/20	49/10	53	57/14	71/17	79/19
LO	63/28	67/24	53/19	52/10	56	66/16	76/19	79/21
LO	13/26	71/20	63/15	58/9	63	68/15	64/19	67/29
8" Poplar 50' R 82+40								

33921

103			52	340
+26 Edge Bridge			46	346 RR steel
+46			46	346 Conc.
Clearance			56	336 Wings
Bot Creek			10.4	288 + Abut.
WL			10.0	292
104			56	336
105			4.8	344
106			4.0	352
BM	397	40,64	2,54	3667
+60			49	357
107			52	354
+50			63	343
108			6.7	339
+60			6.5	341
	820	42,23	6.61	3403
109			74	348
110			4.3	379
	955	51,48	030	41,93
111			96	419
112			5.7	458
113			1.7	498
	996	59,59	1.85	4963
114			4.1	555
	586	64,47	0.98	58,61

84/30	87/21	96/15	56/8	52	55/8	70/13	76/21	79/30
				46				
				46				
				56				
				104				
				100	103/200	Down		
88/30	89/21	83/14	60/9	56	60/9	75/15	85/26	80/31
LO 80/23	83/20	73/14	57/9	4.8	53/10	69/18	63/26	
	47/200	36/100	40/12	40	43/30	54/100	65/200	
10" Pine	40' R	106+50						
	43/30	40/23	50/13	49	60/15	36/19	40/26	
50/28	47/21	52/16	59/12	52	64/15	47/19	51/26	LO
76/50	72/23	81/18	75/12	63	73/17	64/19	64/30	
90/30	90/26	88/17	75/10	67	73/16	82/19	83/30	
81/30	81/22	75/15	70/10	65	69/11	75/17	86/20	90/26
81/30	81/26	87/22	81/14	74	82/12	90/17	86/20	90/30
LO 81/27	39/18	47/13	43	43	48/17	40/22	43/30	
LO 85/29	94/26	97/16	103/13	96	97/13	102/17	96/20	97/25
✓ 55/27	60/24	62/14	58/9	5.7	59/10	67/17	62/20	67/30
	20/30	25/21	20/11	1.7	19/7	37/15	34/19	34/23
18/30	33/19	47/15	41/12	4.1	48/14	32/18	33/25	41/31

36447

114+50		6.3	58.2
115		5.2	59.3
116		4.5	60.0
+50		4.4	60.1
117		4.9	59.6
BM		2.72	
118		8.6	55.9
	193	559.5	1045 540.2
119		3.8	52.2
120		7.1	48.9
121		10.5	45.5
	310	485.3	105.2 454.3
122		4.6	43.9
+64	15" x 28 CMC Fair. 14' L-14'R		
123		4.8	43.7
124		2.9	45.6
+30		2.0	46.5
125		2.9	45.6
BM1		4.54	43.99

52/31	52/22	61/17	72/14	69/11	63	68/7	72/15	62/18	65/27	L0
42/25	48/22	52/17	56/15	53/13	52	51/7	64/15	60/18	67/28	
40/33	47/22	48/18	49/13		45	49/7	64/16	60/18	63/26	69/31
31/33	32/25	43/19	45/13		44	47/7	58/16	51/19	57/24	61/31
		44/31	44/19	53/15	49	50/7	57/9	61/15	54/18	50/30

8" Gate Post 40' L 116+20

84/35	84/25	87/18	89/15	86	89/7	95/14	84/17	85/25	L0
-------	-------	-------	-------	----	------	-------	-------	-------	----

39/30	39/18	43/15	41/10	38	41/10	51/15	35/18	35/30	
70/30	70/19	79/16	73/9	71	74/8	81/15	65/18	64/20	66/31
112/30	111/20	123/15	107/9	105	108/10	121/17	115/20	113/29	

51/28	54/16	70/16	51/8	46	49/8	65/16	58/19	61/32
-------	-------	-------	------	----	------	-------	-------	-------

57/30	68/23	67/21	67/18	54/12	48	50/8	68/14	72/17	65/19	68/27
-------	-------	-------	-------	-------	----	------	-------	-------	-------	-------

29
20
29

10" Pine 25' L 124+00

(17)

C. A. R. No. 1 Job -
T143-144N. R25W. WAHENA.

52+ Transit Notes Job 29-5

39+52.0 P.O.T.

26+31.2 1/4 Cor. Stk. Inp. P.O.T.

13+20 POT

13

10

0+00 Secline No. Mon. Inp. $\Delta 0^{\circ} 11' R$

$S 6^{\circ} 45' E$

0-800

0-800

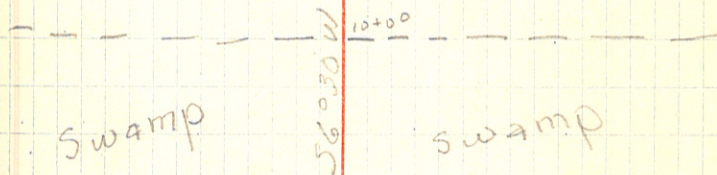
RPS { 6" Pop 467 SW
4" Pop 426 NW

RPS { 4" Maple 517 SW
3" Pop 502 NW

Wild Land

RPS { 3" pop NE 344
3" Pop SE 463

Wild Land



RPS { 15" Tam Stump 655 SW
(TP 370 NW)

0+00 Town Road

0-150

FE 0-570

Wild Land

0-710

FE

Field

RPS { FP 386 SW
(FP 305 NW)

18

92+310

P.O.T.

79+110

1/4 Line P.O.T.

65+91.0

P.O.T.

52+71.2

Section No. Mon A 0° 19' R

RP { 6" Pop 45.2 NE
6" Pop 61.4 SE

RP { Wild Land
6" Pop 80.2 NE
8" Pop 83.9 NW

RP { 4" Birch 49.0 NW
2" Birch 40.5 SW

RP { 6" Pop. 39.8 E
5" Pop 51.4 SE

N. 000 95

Wild Land

77+80

Swamp
Peat

Swamp
Peat.

67+20

19

145+45

P.O.T.

132+20

1/4 Line No. Mon. P.O.T.

118+90

P.O.T.

105+60

Sec Line No. Mon. P.O.T.

R.P. { 8" Pop 36.2 W
6" Pop 69.5 NW

147+00
Pot Hole 144+00

137+50

Swamp

135+80

R.P. { 14" W Pine 52.6 NW
10" N Pine 45.0 SW

Wild land

Wild land.

56000W

R.P. { 4" Pop 47.3 NW
3" Pop 51.7 NE

Wild land

Wild Land.

R.P. { 3" Pop 59.4 SW
6" Stump 38.0 NW

(21)

295

Clearing & Grubbing Co. A. d. Job #201

0-13+20	Glear.	1.5 Ac	Grub	0.1 Ac	
13+20-26+31	"	1.6 "	"	0.3 Ac	
26+31-39+52	"	1.5 "	"	1.1 Ac.	
39+52 52+71	"	1.5 "	"	1.2 Ac.	
52+71 65+91	"	1.2 "	"	0.7 Ac.	
65+91 79+11	"	1.5 "	"	0.6 Ac.	
79+11-92+31	"	1.6 "	"	1.1 Ac.	
92+31-105+60	"	1.6 "	"	1.6 Ac.	
105+60 118+90	"	1.8 "	"	1.7 Ac.	
118+90-132+20	"	1.2 "	"	1.2 Ac.	
132+20-158+70	"	1.5 "	"	1.2 Ac.	
158+70-171+95	"	1.6 "	"	1.2 Ac.	
171+95 185+20	"	1.6 "	"	1.2 Ac.	
185+20 198+45	"	1.6 "	"	1.2 Ac.	
198+45 211+80	"	1.2 "	"	1.1 Ac.	

(22) Level Notes C.A.R #1 Job # 295
 T-143-144 R25 W Wahena
 Oct 22-1929

BM	0.37	1300.37	1300.00
0-900			6.0 944
0-800			5.2 952
0-700			4.4 960
0-600			3.2 972
0-500			4.7 957
0-400			5.0 954
0-300			4.9 955
0-200			5.7 947
0-100			6.3 941
	5.21	1299.30	6.28 1294.09
0+00			5.0 943
0+50			6.0 933
1+00			6.4 929
2			6.5 928
3			6.6 927
4			6.8 925
5			6.6 927
6			6.7 926
	6.41	1299.31	6.40 1292.90
7			6.9 924
8			7.2 921
9			7.0 923
10			7.3 920
11			5.5 938

Water Dr. 50,
 2-15 X 30 UMC

x' Peat
 4.5' Peat
 5.0' Peat

Prudlo T
 Trout Rod
 Mast Chain

Sp. in 12' Elm. 220' R 0-650

6.0	6.0	6.0	6.0
5.2	5.2	5.2	5.2
4.4	4.4	4.4	4.4
3.2	3.2	3.2	3.2
4.7	4.7	4.7	4.7
5.0	5.0	5.0	5.0
4.9	4.9	4.9	4.9
5.7	5.7	5.7	5.7
6.3	6.3	6.3	6.3
5.0	5.0	5.0	5.0
6.0	6.0	6.0	6.0
6.4	6.4	6.4	6.4
6.5	6.5	6.5	6.5
6.6	6.6	6.6	6.6
6.8	6.8	6.8	6.8
6.6	6.6	6.6	6.6
6.7	6.7	6.7	6.7
6.9	6.9	6.9	6.9
7.2	7.2	7.2	7.2
7.0	7.0	7.0	7.0
7.3	7.3	7.3	7.3
5.5	5.5	5.5	5.5

(23)

		129931		
12			45	948
13			3.0	963
	5.72	130227	2.76	1296.55
14			4.7	976
15			4.9	974
B.M.			3.14	1299.13
16			4.7	976
17			3.2	99.1
	9.75	130902	3.00	1299.27
18			56	034
19			18	07.2
	4.44	131190	1.56	130746
19+50			40	079
20			57	06.2
+50			6.5	05.4
21			53	066
22			4.1	078
B.M.			2.22	130968
+50			33	08.6
	8.15	131668	3.37	1308.53
23			5.5	11.2
+50			4.9	11.8
24			5.1	11.6
25			5.1	11.6
26			5.1	11.6
	8.37	132075	4.80	1311.88

Dr. 15"

	$\frac{36}{30}$	4.5	$\frac{42}{30}$
	$\frac{25}{33}$	3.0	$\frac{27}{33}$
	$\frac{53}{30}$	4.7	$\frac{44}{35}$
	$\frac{44}{33}$	4.9	$\frac{52}{33}$
10" Ash. 32' R 14+80			
	$\frac{47}{33}$	4.7	$\frac{41}{32}$
	$\frac{36}{33}$	3.2	$\frac{20}{29}$
	$\frac{35}{26}$		$\frac{17}{33}$
	$\frac{84}{33}$	5.6	$\frac{46}{30}$
	$\frac{77}{26}$	1.8	$\frac{15}{30}$
	$\frac{15}{33}$		
	$\frac{37}{33}$	4.0	$\frac{41}{33}$
	$\frac{57}{31}$	5.7	$\frac{61}{30}$
	$\frac{62}{30}$	6.5	$\frac{69}{30}$
	$\frac{60}{30}$	5.3	$\frac{58}{30}$
	$\frac{53}{10}$	4.1	
4" Spruce. 60' L 21+70			
		3.3	
		5.5	
		4.9	
	$\frac{54}{30}$	5.1	$\frac{53}{30}$
	$\frac{49}{30}$	5.1	$\frac{51}{30}$
	$\frac{54}{30}$	5.1	$\frac{49}{30}$

24

1320.25

27		8.0	12.3	
+40		3.3	17.0	
28		3.5	16.8	
29		5.9	14.4	
30		6.3	14.0	
31		5.2	15.1	
32		8.2	12.1	
33		8.0	12.3	
	7.56	1319.79	8.02	1312.23
34		6.6	13.2	
35		5.6	14.2	
36		5.0	14.8	
BM		4.59	1315.20	
37		6.1	13.7	
38		7.3	12.5	
39		7.7	12.1	
40		5.3	14.5	
	11.18	1326.02	4.95	1314.84
41		8.7	17.3	
42		5.1	20.9	
43		4.0	22.0	
44		5.5	20.5	
45		6.5	19.5	
46		6.8	19.2	
	6.14	1325.51	6.65	1319.37
47		5.4	20.1	

Dr E
15"

Dr E
18" cm.

47

78/30	8.0	82/30
30/30	3.3	41/30
32/30	3.5	40/30
56/30	5.9	63/30
62/30	6.3	67/30
51/30	5.2	57/30
91/200	8.2	82/30
81/30	8.0	81/30
67/30	6.6	69/30
58/30	5.6	50/30
	5.0	
A" Poplar 60' L	35+40	
	6.1	
	7.3	
	7.7	
	5.3	
	8.7	
	5.17	
	4.0	} Special Ditch on West TO Dr North
	5.5	
	6.5	
	6.8	
	5.4	

25

		132551		
48			5.1	204
49			34	22.1
	807	133140	2.18	1323.33
50			64	250
51			48	266
52			48	266
53			6.3	25.1
+50			62	252
54			62	25.0
	6.57	1332.02	59.5	1325.45
+70			94	226
+80			90	230
55			54	266
BM	7.21	1334.63	4.60	1327.42
+60			2.7	319
56			3.1	315
	3.62	1335.36	289	1331.74
57			5.3	30.1
58			5.2	30.2
+30			5.4	30.0
59			11.5	23.9
+40			12.8	22.6
	1.78	132482	12.32	1323.04
60			5.3	19.5
61			10.8	14.0
+50			12.0	12.8

D.F.E.
15" CMC

			5.1	
			34	
			6.4	
			4.8	
			4.8	45/30
			6.3	60/30
			6.2	60/30
			4.4	60/30
			9.4	94/30
			9.0	92/30
			5.4	63/26 66/30
			2.7	24/28 24/30
			3.1	23/30
			5.3	52/21 52/30
			5.2	40/14 55/30
			5.4	55/17 54/30
			11.5	107/16 92/30
			12.8	141/19 143/30
			5.3	53/16 37/21
			10.8	105/14 106/30
			12.0	113/17 86/30

6" Poplat 60'R 54+90

26

13248V

62
+55

63
+50

056 131463

64
+50

65
+50

66

112 130448

BM

66+50

67

68

69

70

71

72

73

74

75

76

77

8.55 1300.80

11.0	13.8
2.6	22.2
5.4	19.4
11.5	13.3
10.75	131407
5.6	09.0
5.6	09.0
6.2	08.4
9.4	05.2
11.3	03.3
11.27	130336
0.05	130443
7.0	97.5
11.2	93.3
12.9	91.6
13.0	91.5
13.0	91.5
13.1	91.4
12.73	1292.25
9.2	91.6
9.0	91.8
8.8	92.0
9.1	91.7
9.3	91.5
9.2	91.6

61470
15" CM
D.F.E

12.9 2.9	12.4 1.5	11.0	8.4 1.7	5.5 3.2
7.2 3.0	5.4 1.4	2.6	1.3 1.5	0.3 3.2
9.4 3.1	7.2 2.0	5.4	3.1 1.9	1.4 3.3
13.6 5.1	13.3 1.8	11.5	9.6 1.1	9.0 3.0

7.9 3.1	7.5 2.0	5.6	2.6 1.5	0.0 3.5
10.2 3.0	8.6 1.5	5.6	3.6 1.7	0.3 3.3
11.4 3.0	9.0 1.1	6.2	5.4 6	3.0 1.6
13.7 3.2	13.1 2.0	9.4	7.9 1.1	5.1 2.4
15.5 3.0	14.5 2.5	13.3	10.4 1.1	9.6 2.4

12" Pine Stump 110 R 66+20

7.0 3.0	7.0	2.0 1.4	1.5 3.0
11.6 3.0	11.2	11.0 3.0	
12.6 3.0	12.9	12.9 3.0	
12.8 3.0	13.0	12.9 3.0	
13.0 3.0	13.0	13.0 3.0	
13.0 3.0	13.1	13.3 3.0	
9.2 3.0	9.2	9.4 3.0	
9.3 3.0	9.0	9.2 3.0	
9.7 3.0	8.8	8.8 3.0	
9.0 3.0	9.1	9.2 3.0	
9.3 3.0	9.3	9.2 3.0	
9.2 3.0	9.2	9.1 3.0	

27

77+80
78
B.M.

130080

90 918
6.5 943
4.14 1296.66

709 1307,01

0.88 1299.92
7.4 996
4.8 022
4.9 021
3.2 038
3.0 040
2.6 044

79
80
81
+50
82
83

1000 1314,57

2.44 1304.57
7.7 069
4.1 10.5
3.0 11.6
0.4 14.2

84
85
86
87

10.74 1325.25

0.06 1314.51
8.3 17.0
2.1 23.2

88
89

12.05 1336.87

0.43 1324.82
7.7 29.2
7.2 29.7
2.2 34.7

90
91
92

560 1341,60

0.87 1336.00
6.1 35.5
6.0 35.6

93
+60

Good Record

$\frac{71}{30}$ 90 $\frac{92}{30}$
 $\frac{75}{31}$ $\frac{73}{20}$ 6.5 $\frac{72}{24}$ $\frac{80}{30}$

6" Poplar 80' L 78+30

$\frac{99}{30}$ $\frac{81}{14}$ 7.4 $\frac{85}{19}$ $\frac{100}{30}$
 $\frac{55}{30}$ $\frac{50}{22}$ 4.8 $\frac{52}{15}$ $\frac{55}{31}$
 $\frac{31}{33}$ $\frac{40}{14}$ 4.9 $\frac{64}{18}$ $\frac{73}{30}$
 $\frac{22}{30}$ $\frac{28}{15}$ 3.2 $\frac{30}{30}$
 $\frac{10}{31}$ $\frac{26}{13}$ 3.0 $\frac{58}{14}$ $\frac{42}{30}$
 $\frac{10}{33}$ $\frac{15}{21}$ 2.6 $\frac{31}{14}$ $\frac{32}{30}$

$\frac{79}{31}$ $\frac{80}{20}$ 7.7 $\frac{77}{14}$ $\frac{78}{30}$
 $\frac{52}{32}$ $\frac{48}{24}$ 4.1 $\frac{43}{12}$ $\frac{43}{30}$
 $\frac{41}{30}$ 3.0 $\frac{16}{30}$
0.4

8.3
2.1

7.7
7.2
2.2

6.1
6.0

28

		134160		
94			72	344
95			99	317
	4.05	1333,26	12.39	1329.21
96			50	28.3
97			4.6	28.7
+50			5.7	27.6
98			4.7	28.6
99			5.5	27.8
100			6.2	27.1
101			6.4	26.9
	7.52	1334.42	6.36	1326.90
102			70	27.4
103			4.3	30.1
BM			2.34	1332.08
104			4.3	30.1
105			4.1	30.3
106			2.8	31.6
	4.75	1337,62	1.55	1332.87
107			5.2	32.4
108			6.6	31.0
109			7.9	29.7
110			10.2	27.4
111			11.4	26.2
	4.72	1331,56	10.78	1326.84
112			6.3	132.53

D.F.E
18" G.M.C
977.50

	72
	99
	5.0
	4.6
	5.7
	4.7
	5.5
	6.2
	6.4
	7.0
	4.3
12" N.Pine 40' R	103+60
	4.3
	4.1
	2.8
	5.2
	6.6
	7.9
	10.2
	11.4
	6.3

(29)

	1331,56		
113		7.3	24.3
114		6.5	25.1
115		3.9	27.7
116		3.4	28.2
117		3.0	28.6
118		2.3	29.3
	4.73	133442	18.7 1329.69
118		5.3	29.1
BM		4.30	1330.12
119		4.6	29.8
120		4.7	29.7
121		5.8	28.6
122		6.7	27.7
123		8.2	26.2
	4.26	133089	7.81 1326.61
124		4.5	26.4
125		6.6	24.3
+50		7.5	23.4
126		7.7	23.2
127		5.7	25.2
128		3.6	27.3
	10.38	1337.90	3.35 1327.52
129		9.8	28.1
130		7.5	30.4
131		5.7	32.2

D.W.
18" CM
sta. 113

D.W.
18" CM
127+00

			7.3
			6.5
			3.9
			3.4
			3.0
			2.3
			5.3
			12" Nor. Pine 80'R 120+00
			4.6
			4.7
			5.8
			6.7
			8.2
			4.5
			6.6
			7.5
			7.7
			5.7
			3.6
			9.8
			7.5
			5.7

30

132		4.6	33.3
133		4.7	33.2
134		5.3	32.6
134		4.2	33.7
135	5.27	4.00	1333.90
136		6.2	33.0
137		8.8	30.4
138		8.8	30.4
138		6.7	32.5
139	7.63	6.30	1332.87
140		7.5	33.0
141		4.7	35.8
142		6.2	34.3
142		6.6	33.9
143	8.44	6.33	1334.17
144		6.7	35.9
BM		5.6	37.0
145		4.16	1338.45
146		9.3	33.3
+50		12.1	30.5
147		13.2	29.4
147		12.1	30.5
148	7.12	11.81	1330.80
+60		5.0	32.9
		5.2	32.7

1337.90

1339.17

1340.50

1342.61

1337.92

Dot Hole
No Orange
18.0 cm

Dr. W.
15" CM

Needs 200' Offset to West

48/30	4.6	4.3/30
49/30	4.7	4.4/30
55/30	5.3	5.3/30
36/30	4.2	3.7/30
63/30	6.2	5.4/30
90/30	8.8	8.8/30
87/30	8.8	8.8/30
68/30	6.7	6.6/30
7.7/30	7.5	7.3/30
42/30	4.7	5.1/30
65/30	6.2	6.4/30
56/30	6.6	6.3/30
61/30	6.7	6.7/30
55/30	5.6	5.7/30
14" Nor. Pine 50'R 143+60		
94/30	9.3	8.9/30
121/30	12.1	12.4/30
134/30	13.2	13.2/30
124/30	12.1	12.2/30
50/30	5.0	4.0/30
38/30	5.2	6.7/30
42/15		6.9/30

(31) ✓

149

1043 13379.2 3.0 34.9

150

2.57 1335.35

151

6.9 38.9

152

5.0 40.8

+75

3.9 41.9

153

5.0 40.8

444 134274 7.7 38.1

+50

7.2 35.5

154

6.9 35.8

155

5.1 37.6

+50

4.2 38.5

156

5.1 37.6

157

4.9 37.8

1250 1350.52 4.72 1338.82

158

10.8 39.7

159

4.8 45.7

+50

2.9 47.6

160

1.9 48.6

182 1351.47 0.87 1349.65

161

3.1 48.4

162

5.8 45.7

BM

7.21 1344.26

162+60

10.0 41.5

163

10.6 40.9

D-F-E
15" CM+D

$\frac{37}{30}$

30

$\frac{30}{15}$

$\frac{34}{30}$

$\frac{71}{30}$

69

$\frac{64}{30}$

$\frac{47}{30}$

50

$\frac{50}{30}$

39

50

77

72 ✓

69

51

42

51

49

10.8

4.8

2.9

1.9

3.1

5.8

72" Maple 35'R 162+10

10.0

10.6

32

164		135147	13.0	38.5
	4.14	134323	12.38	1339.09
165			5.4	37.8
166			7.1	36.1
+70			7.1	36.1
167			6.5	36.7
168			6.3	36.9
	3.72	134142	5.53	1337.70
169			3.5	37.9
170			4.7	36.7
171			6.7	34.7
172			8.2	33.2
	3.94	133796	7.40	1334.02
173			4.3	33.7
174			5.0	33.0
+50			4.5	33.5
175			6.7	31.3
176			9.4	28.6
177			11.2	26.8
	0.40	132783	10.53	1327.43
178			5.8	22.0
179			9.4	18.4
BM			8.05	1319.78
180			7.4	20.4
181			3.1	24.7
	4.80	133191	0.72	1327.11

Dr E
15" CMC

Dr. E + W
K.O. C.M.

130

54

7.1

7.1

6.5

6.3

3.5

4.7

6.7

8.2

4.3

5.0

4.5

6.7

9.4

11.2

5.8

9.4

10' poplar 60' L 179 + 50

7.4

3.1

33

182
+50

183
+50

184

185

186

187

188
+40

189
+75

190

191

192

193

194

+50

195

+50

196

BM

133191

598 133354

544 132798

382 131969

3.3

2.4

5.0

6.4

4.9

7.8

5.0

4.35

8.4

5.0

4.9

10.9

12.3

11.7

11.00

5.0

5.0

11.1

12.6

12.11

7.5

6.7

4.7

6.4

2.43

28.6

29.5

26.9

25.5

27.0

24.1

26.9

132756

25.1

28.5

28.6

22.6

21.2

21.8

132254

23.0

23.0

16.9

15.4

131587

12.2

13.0

15.0

13.3

131726

D.F.E.
15" CM

D.F.W.
12" CM

D.F.E.
12" CM

3.3

2.4

5.0

6.4

4.9

7.8

5.0

$\frac{89}{50}$
 $\frac{48}{30}$

$\frac{43}{30}$
 $\frac{115}{50}$

$\frac{121}{30}$
 $\frac{110}{30}$

$\frac{40}{30}$
 $\frac{40}{30}$

$\frac{107}{30}$
 $\frac{126}{29}$

$\frac{79}{30}$
 $\frac{74}{29}$

$\frac{50}{30}$
 $\frac{67}{30}$

8.4

5.0

4.9

10.9

12.3

11.7

5.0

$\frac{80}{50}$
 $\frac{65}{50}$

$\frac{64}{30}$
 $\frac{109}{50}$

$\frac{123}{30}$
 $\frac{122}{30}$

$\frac{55}{50}$
 $\frac{62}{50}$

$\frac{108}{30}$
 $\frac{124}{26}$

7.5

6.7

4.7

6.4

8' Poplar - 65' R 195 + 50

(34)

197

131969
320 131654

6.9 12.8
6.35 13.34

+40

198

3.5 13.0
6.4 10.1

+45

199

250 130902

7.8 8.7
13.2 03.3
10.02 130652

200

+60

201

202

203

800 131498

7.9 01.1
7.7 01.3
6.4 02.6
5.3 03.7
2.8 06.2
18" CM

204

+60

205

+50

206

+30

641 131929

2.04 130698
7.7 07.3
6.0 09.0
6.1 08.9
4.6 10.4
5.2 09.8
4.6 10.4

207

208

209

1156 132661

2.10 131288
6.0 13.3
6.2 13.1
4.8 14.5
[A] 3

210

211

4.24 131505
4.8 21.8
5.9 20.7
[B] 3

$\frac{66}{30}$ 6.9 $\frac{67}{31}$

$\frac{35}{30}$ 3.5 $\frac{32}{33}$

$\frac{50}{30}$ $\frac{54}{30}$ 6.4 $\frac{79}{20}$ $\frac{80}{30}$

$\frac{56}{30}$ $\frac{69}{29}$ 7.8 $\frac{95}{13}$ $\frac{105}{30}$

$\frac{132}{29}$ 13.2 $\frac{135}{30}$

$\frac{77}{30}$ 7.9 $\frac{79}{33}$

$\frac{74}{30}$ 7.7 $\frac{77}{31}$

$\frac{68}{29}$ 6.4 $\frac{60}{30}$

$\frac{51}{33}$ 5.3 $\frac{50}{33}$

$\frac{30}{30}$ 2.8 $\frac{26}{31}$

$\frac{74}{30}$ 7.7 $\frac{73}{30}$

$\frac{77}{30}$ 6.0 $\frac{58}{30}$

$\frac{73}{30}$ 6.1 $\frac{53}{29}$ $\frac{50}{30}$

$\frac{51}{30}$ 4.6 $\frac{36}{28}$

$\frac{58}{29}$ 5.2 $\frac{47}{30}$

$\frac{49}{28}$ 4.6 $\frac{43}{30}$

$\frac{60}{30}$ $\frac{61}{29}$ 6.0 $\frac{64}{20}$ $\frac{66}{32}$

$\frac{68}{30}$ $\frac{64}{29}$ 6.2 $\frac{54}{18}$ $\frac{51}{30}$

$\frac{58}{31}$ $\frac{54}{28}$ $\frac{50}{29}$ 4.8 $\frac{51}{29}$ $\frac{44}{30}$

$\frac{16}{40}$ $\frac{26}{30}$ $\frac{44}{29}$ 4.8 $\frac{56}{11}$ $\frac{68}{28}$ $\frac{75}{40}$

$\frac{58}{30}$ $\frac{60}{31}$ $\frac{62}{29}$ 5.9 $\frac{60}{28}$ $\frac{52}{31}$ $\frac{54}{30}$

211+80
BM

1326.61

5.2 214
9.87 1316.74

$\frac{148}{300}$ $\frac{115}{200}$ $\frac{83}{100}$ 5.2 $\frac{50}{60}$ $\frac{60}{100}$ $\frac{104}{200}$ $\frac{142}{300}$
T.P. 75' SE 211+80 & T.H. #34

78

Oct 21-1929

Transit Notes Wahena Twp

Pseudo N
Trout H₆
Most RC.

66+36 Sec Line

RP { 42.6 Poplar 5" NE.
6" Bass Wood 248 NW 0

57+88 1/16 Line POT Fen Line W.

RPS { 6" Pop. 406 E
5" Ash 405 SE26+76 1/4 Line. $\Delta 85^{\circ} 60'$ No Mon Inp.RPS { 5" Cedar 207 NE
10" Cedar 293 E

0+00

County Road 1/16 Line
N.W. Cor of S.W. 1/4 of SW 1/4 Sec 7 - 144-25RPS { 10" Oak 619 NW
F.P. 691 NE

KEITH'S RAILROAD CURVE TABLES.

Published by KEUFFEL & ESSER CO., New York.

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HOW TO USE KEITH'S TABLES.

EXAMPLE.

Wanted a Curve with an Ext. of about 12 ft. Angle
of Intersection or I. P.= $23^{\circ} 20'$ to the R. at Station
542+72.

Ext. in Tab. IV opposite $23^{\circ} 20'$ =120.87
 $120.87 \div 12 = 10.07$. Say a 10° Curve.

Tan. in Tab. IV opp. $23^{\circ} 20'$ =1183.1
 $1183.1 \div 10 = 118.31$.

Tab. V. correction for A. $23^{\circ} 20'$ for a 10° Cur.=0.16
 $118.31 + 0.16 = 118.47$ =corrected Tangent.

(If corrected Ext. is required find in same way)
Ang. $23^{\circ} 20' = 23.33^{\circ} \div 10 = 2.3333$ =L. C.

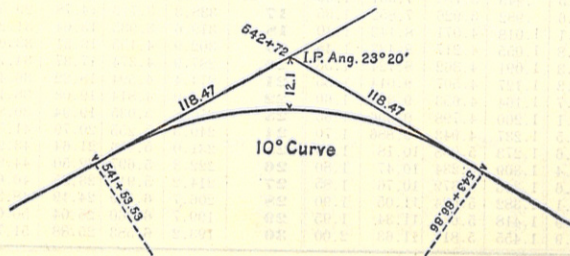
$2^{\circ} 19\frac{1}{2}'$ =def. for sta. 542	I. P.=sta. 542+72
$4^{\circ} 49\frac{1}{2}'$ = " " " +50	Tan.= 1.18.47
$7^{\circ} 19\frac{1}{2}'$ = " " " 543	B. C.=sta. 541+53.53
$9^{\circ} 49\frac{1}{2}'$ = " " " +50	L. C.= 2.33.33
$11^{\circ} 40'$ = " " " 543+	E. C.=sta. 543+86.86
86.86	

$100 - 53.53 = 46.47 \times 3'$ (def. for 1 ft. of 10° Cur.)=139.41'=
 $2^{\circ} 19\frac{1}{2}'$ =def. for sta. 542.

Def. for 50 ft.= $2^{\circ} 30'$ for a 10° Curve.

Def. for 36.86 ft.= $1^{\circ} 50\frac{1}{2}'$ for a 10° Curve

(These tables are published in Field Books of
KEUFFEL & ESSER Co., New York, N. Y.)



1047 ✓
187
10285
1029
47
1076
53
1023
1047
23
102.4

Natural Tangents

deg.	0'	10'	20'	30'	40'	50'	deg.	0'	10'	20'	30'	40'	50'	deg.	
0	0000	0029	0058	0087	0116	0145	89	40	8391	8441	8491	8541	8591	8642	49
1	0175	0204	0233	0262	0291	0320	88	41	8693	8744	8796	8847	8899	8952	48
2	0349	0378	0407	0437	0466	0495	87	42	9004	9057	9110	9163	9217	9271	47
3	0524	0553	0582	0612	0641	0670	86	43	9325	9380	9435	9490	9545	9601	46
4	0699	0729	0758	0787	0816	0846	85	44	9657	9713	9770	9827	9884	9942	45
5	0875	0904	0934	0963	0992	1022	84	45	1.0000	1.0058	1.0117	1.0176	1.0235	1.0295	44
6	1051	1080	1110	1139	1169	1198	83	46	1.0355	1.0416	1.0477	1.0533	1.0599	1.0661	43
7	1228	1257	1287	1317	1346	1376	82	47	1.0724	1.0786	1.0850	1.0913	1.0977	1.1041	42
8	1405	1435	1465	1495	1524	1554	81	48	1.1106	1.1171	1.1237	1.1303	1.1369	1.1436	41
9	1584	1614	1644	1673	1703	1733	80	49	1.1504	1.1571	1.1640	1.1708	1.1778	1.1847	40
10	1763	1793	1823	1853	1883	1914	79	50	1.1918	1.1988	1.2059	1.2131	1.2203	1.2276	39
11	1944	1974	2004	2035	2065	2095	78	51	1.2349	1.2423	1.2497	1.2572	1.2647	1.2723	38
12	2126	2156	2186	2217	2247	2278	77	52	1.2799	1.2876	1.2954	1.3032	1.3111	1.3190	37
13	2309	2339	2370	2401	2432	2462	76	53	1.3270	1.3351	1.3432	1.3514	1.3597	1.3680	36
14	2493	2524	2555	2586	2617	2648	75	54	1.3704	1.3848	1.3934	1.4019	1.4106	1.4193	35
15	2679	2711	2742	2773	2805	2836	74	55	1.4281	1.4370	1.4460	1.4550	1.4641	1.4733	34
16	2867	2899	2931	2962	2994	3026	73	56	1.4826	1.4919	1.5013	1.5108	1.5204	1.5301	33
17	3057	3089	3121	3153	3185	3217	72	57	1.5399	1.5497	1.5597	1.5697	1.5798	1.5900	32
18	3249	3281	3314	3346	3378	3411	71	58	1.6003	1.6107	1.6212	1.6319	1.6426	1.6534	31
19	3443	3476	3508	3541	3574	3607	70	59	1.6643	1.6753	1.6864	1.6977	1.7090	1.7205	30
20	3640	3673	3706	3739	3772	3805	69	60	1.7321	1.7437	1.7556	1.7675	1.7797	1.7917	29
21	3839	3872	3906	3939	3973	4006	68	61	1.8040	1.8165	1.8291	1.8418	1.8546	1.8676	28
22	4040	4074	4108	4142	4176	4210	67	62	1.8807	1.8940	1.9074	1.9210	1.9347	1.9486	27
23	4245	4279	4314	4348	4383	4417	66	63	1.9626	1.9768	1.9912	2.0057	2.0204	2.0353	26
24	4452	4487	4522	4557	4592	4628	65	64	2.0503	2.0655	2.0809	2.0965	2.1123	2.1283	25
25	4663	4699	4734	4770	4806	4841	64	65	2.1445	2.1609	2.1775	2.1943	2.2113	2.2286	24
26	4877	4913	4950	4986	5022	5059	63	66	2.2450	2.2637	2.2817	2.2998	2.3183	2.3369	23
27	5095	5132	5169	5206	5243	5280	62	67	2.3559	2.3750	2.3945	2.4142	2.4342	2.4545	22
28	5317	5354	5392	5430	5467	5505	61	68	2.4751	2.4960	2.5172	2.5386	2.5605	2.5826	21
29	5543	5581	5619	5658	5696	5735	60	69	2.6051	2.6279	2.6511	2.6746	2.6985	2.7228	20
30	5774	5812	5851	5890	5930	5969	59	70	2.7475	2.7725	2.7980	2.8239	2.8502	2.8770	19
31	6009	6048	6088	6128	6168	6208	58	71	2.9042	2.9319	2.9600	2.9887	3.0178	3.0475	18
32	6249	6289	6330	6371	6412	6453	57	72	3.0777	3.1084	3.1397	3.1716	3.2041	3.2371	17
33	6494	6536	6577	6619	6661	6703	56	73	3.2709	3.3052	3.3402	3.3759	3.4124	3.4495	16
34	6745	6787	6830	6873	6916	6959	55	74	3.4874	3.5261	3.5656	3.6059	3.6470	3.6891	15
35	7002	7046	7089	7133	7177	7221	54	75	3.7321	3.7760	3.8208	3.8667	3.9136	3.9617	14
36	7265	7310	7355	7400	7445	7490	53	76	4.0108	4.0611	4.1126	4.1653	4.2193	4.2747	13
37	7536	7581	7627	7673	7720	7766	52	77	4.3315	4.3897	4.4494	4.5107	4.5736	4.6382	12
38	7813	7860	7907	7954	8002	8050	51	78	4.7046	4.7729	4.8430	4.9152	4.9894	5.0658	11
39	8098	8146	8195	8243	8292	8342	50	79	5.1446	5.2257	5.3093	5.3955	5.4845	5.5764	10
deg.	60'	50'	40'	30'	20'	10'	deg.	60'	50'	40'	30'	20'	10'	deg.	
80	5.6713	5.7694	5.8708	5.9758	6.0844	6.1970	9								
81	6.3138	6.4348	6.5606	6.6912	6.8269	6.9682	8								
82	7.1154	7.2687	7.4287	7.5958	7.7704	7.9530	7								
83	8.1443	8.3450	8.5555	8.7769	9.0098	9.2553	6								
84	9.5144	9.7882	10.078	10.385	10.7111	11.059	5								
85	11.430	11.826	12.250	12.706	13.197	13.727	4								
86	14.300	14.924	15.605	16.350	17.169	18.075	3								
87	19.081	20.206	21.470	22.903	24.542	26.432	2								
88	28.636	31.242	34.368	38.189	42.964	49.104	1								
89	57.290	68.750	85.940	114.588	171.885	343.770	0								
deg.	60'	50'	40'	30'	20'	10'	deg.								

Natural Cotangents

730
75
857

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1 1/2 TO 1.
FOR SINGLE TRACK EMBANKMENT.

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

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

MADE IN GERMANY.
R.