

CIVIC CENTER
SURVEY

4

1510

MINING
TRANSIT BOOK

384

X- SECTIONS

MICROFILMED
DEC 24 1964

ENGINEERING DEPARTMENT,
CITY OF
CALIFORNIA.
-GO.

B.M. Pole Opposite Robbins Shop 7.03
J Line 6.50
S.E. Cor. Grape & Atlantic 6.64

8/20/34

①

H. I.

2.67 9.70 7.03

C₂-C₃ Line

0400	5.00	4.70
R13	5.10	4.60
0413	5.00	4.70
R13	5.20	4.50
0425	5.10	4.60
R13	5.10	4.60
0437	5.10	4.60
R13	5.00	4.70
0450	5.20	4.50
R13	5.10	4.60
0463	5.00	4.70
R13	5.20	4.50
0475	5.10	4.60
R13	5.30	4.40
0487	5.90	3.80
R13	5.90	3.80
1400	5.20	4.50
R13	5.60	4.10
1413	5.70	4.00
R13	5.50	4.20
1425	5.60	4.10
R13	5.90	3.80
1437	5.30	4.40
R13	5.10	4.60

de Bernard Recorded
Keyes. Instmt

Tel. Pole Opposite Robbins Shop.

(2)

1450	5.50	4.20
R13	5.00	4.70
1463	4.90	4.80
R13	5.10	4.60
1475	4.00	5.70
R13	4.50	5.20
1487	4.20	5.50
R13	4.40	5.30
2100	4.30	5.40
R13	4.10	5.60
2113	4.40	5.30
R13	4.30	5.40
2125	4.90	5.00
R13	4.30	5.40
2137	4.90	4.80
R13	4.70	5.00
2150	4.50	4.20
R13	5.10	4.60
2163	4.80	4.90
R13	5.20	4.50
2175	4.90	4.80
R13	5.10	4.60
2187	4.80	4.90
R13	5.10	4.60
3100	5.10	4.60
R13	5.10	4.60

③

3+13	5.20	4.50
R13	5.20	4.50
3+25	5.20	4.50
R13	4.80	4.90
3+37	4.90	4.80
R13	5.00	4.70
3+50	5.20	4.50
R13	4.90	4.80
3+63	5.30	4.40
R13	5.00	4.70
3+75	5.40	4.30
R13	5.30	4.40
3+87	5.50	4.20
R13	5.40	4.30
4+00	5.30	4.40
R13	5.40	4.30
4+13	5.20	4.50
R13	5.00	4.70
4+25	4.90	4.80
R13	4.90	4.80
4+37	4.90	4.80
R13	5.00	4.70
4+50	5.00	4.70
R13	5.00	4.70
4+63	4.70	5.00
R13	5.10	4.60

(4)

475	5.10	460
R13	5.20	450
487	5.20	450
R13	5.20	450
500	5.00	470
R13	5.30	440
513	5.10	460
R13	5.30	440
525	5.10	460
R13	5.30	440
537	5.30	440
R13	5.40	430
550	5.20	450
R13	5.20	450
563	4.80	490
R13	4.70	500
575	4.90	480
R13	4.70	500
587	4.70	500
R13	4.60	510
600	4.30	540
R13	4.20	550
613	4.10	560
R13	4.00	570
625	4.10	560
R13	4.10	560

⑤

6+37	4.00	5.70
R13	4.00	5.70
6+50	4.00	5.70
R13	4.10	5.60
6+63	3.70	6.00
R13	3.20	6.50
6+75	3.20	6.50
R13	3.10	6.60
6+87	3.60	6.10
R13	3.30	6.40
7+00	2.70	7.00
R13	2.50	7.20

D₂ - D₃ Line

0+00	5.00	4.70
R13	5.00	4.70
0+13	5.10	4.60
R13	5.10	4.60
0+25	5.10	4.60
R13	5.40	4.30
0+37	5.20	4.50
R13	5.50	4.20
0+50	5.20	4.50
R13	5.40	4.30
0+63	5.10	4.60
R13	5.20	4.50

②

0475	4.80	490
R13	5.00	470
0487	4.70	500
R13	5.40	430
1400	5.10	460
R13	4.90	480
1413	4.00	570
R05	4.40	530
R13	4.90	480
1425	3.50	620
R04	3.60	610
R13	5.20	450
1437	3.60	610
R13	4.40	530
1450	3.70	600
R13	3.90	580
1463	3.30	640
R13	3.40	630
1475	3.30	640
R06	3.70	600
R13	4.10	560
1487	3.30	640
R05	3.30	640
R13	4.00	570
2400	3.70	600
R13	4.10	560

⑦

2+13	3.50	620
R13	4.30	540
2+25	3.60	610
R13	4.40	530
2+37	3.30	640
R13	4.40	530
2+56	3.80	590
R13	4.20	550
2+63	4.30	540
R13	4.60	5.10
2+75	4.40	5.30
R13	4.60	5.10
2+87	4.60	5.10
R13	4.40	5.30
3+00	4.80	4.90
R13	5.20	4.50
3+13	4.90	4.80
R13	5.10	4.60
3+25	4.90	4.80
R13	4.80	4.90
3+37	4.90	4.80
R13	4.90	4.80
3+50	5.10	4.60
R13	5.00	4.70
3+63	5.10	4.60
R13	4.80	4.90

⑧

3+75	5.00	470
R13	5.00	470
3+87	5.10	460
R13	5.30	440
4+00	5.10	460
R13	5.00	470
4+13	5.10	460
R13	5.20	450
4+25	5.10	460
R13	4.90	480
4+37	4.80	490
R13	4.80	490
4+50	4.50	520
R13	4.70	500
4+63	4.50	520
R13	4.80	490
4+75	4.70	500
R13	5.00	470
4+87	4.50	520
R13	5.10	460
5+00	4.70	500
R13	5.00	470
5+13	4.90	480
R13	4.90	480
5+25	4.50	520
R13	5.10	460

⑨

5+37	4.90	4.80
R13	5.10	4.60
5+50	4.90	4.80
R13	5.00	4.70
5+63	4.80	4.90
R13	4.90	4.80
5+75	4.70	5.00
R13	4.80	4.90
5+87	4.50	5.20
R13	4.50	5.20
6+00	4.20	5.20
R13	4.20	5.20
6+13	4.20	5.20
R13	4.20	5.20
6+25	4.00	5.70
R13	4.10	5.60
6+37	3.80	5.90
R13	3.90	5.80
6+50	3.90	5.80
R13	3.90	5.80
6+63	3.50	6.20
R13	3.40	6.30
6+75	2.80	6.90
R13	2.30	7.40
6+87	2.90	6.80
R13	2.80	6.90

10

7+00	2.70	7.00
R13	2.80	6.90
E ₂ to E ₃ line		
0+00	5.10	460
R13	5.10	460
0+13	5.20	450
R13	5.00	470
0+25	5.10	460
R13	5.10	460
0+37	4.90	480
R13	5.10	460
0+50	4.40	530
R13	4.80	490
0+63	4.40	530
R13	4.80	490
0+75	4.20	550
R13	4.60	510
0+87	4.10	560
R13	4.40	530
1+00	4.10	560
R13	4.70	500
1+13	3.80	590
R13	4.10	560
1+25	3.70	600
R13	4.10	560

(11)

1+37	3.80	590
R13	4.00	570
1+50	3.90	580
R13	3.90	580
1+63	3.90	580
R13	3.70	600
1+75	3.80	590
R13	3.50	620
1+87	3.80	590
R13	3.60	610
2+00	3.80	590
R13	3.50	620
2+13	3.80	590
R13	3.50	620
2+25	3.80	590
R13	3.30	640
2+37	3.70	600
R13	3.10	660
2+50	3.60	610
R13	3.20	650
2+63	3.50	620
R13	3.50	620
2+75	3.40	630
R13	3.20	650
2+87	3.40	630
R06	2.80	690

(12)

1	R13	3.70	600
1	3+00	3.60	610
1	R13	4.50	520
1	3+13	4.20	550
1	R13	4.30	540
1	3+25	4.30	540
1	R13	4.70	500
1	3+37	4.30	540
1	R13	4.80	490
1	3+50	4.50	520
2	R13	4.80	490
1	3+63	4.70	500
2	R13	4.60	510
1	3+75	4.70	500
2	R13	4.90	480
1	3+87	4.60	510
2	R13	5.00	470
1	4+00	4.80	490
2	R13	5.00	470
1	4+13	5.10	460
2	R13	5.30	440
1	4+25	5.10	460
2	R13	5.20	450
1	4+37	5.00	470
2	R13	5.10	460

(13)

1	4+56	5.00	470
	R13	5.00	470
1	4+63	4.90	480
	R13	5.00	470
1	4+75	4.80	490
	R13	4.70	500
1	4+87	4.70	500
	R13	4.60	510
1	5+00	4.50	520
	R13	4.50	520
2	5+13	4.80	490
	R13	4.80	490
2	5+25	4.50	520
	R13	4.60	510
2	5+37	4.50	520
	R13	4.80	490
2	5+50	4.60	510
	R13	4.80	490
2	5+63	4.90	480
1	R13	4.80	490
2	5+75	4.80	490
	R13	4.70	500
2	5+87	4.60	510
	R13	4.60	510
2	6+00	4.20	550
1	R13	3.90	580

(14)

	6+13	4.00	570
	R13	4.20	550
1	6+25	3.70	600
	R13	3.80	590
1	6+37	4.00	570
	R13	3.90	580
1	6+50	4.00	570
	R13	3.70	600
1	6+63	3.70	650
	R13	3.00	670
2	6+75	3.30	640
	R13	2.90	680
2	6+87	3.30	640
	R13	3.20	650
2	7+00	3.00	670
	R13	3.00	670
2			
	F ₂ to F ₃ Line		
1	0+00	4.80	490
2	R13	5.00	470
1	0+13	4.90	480
2	R13	4.90	480
1	0+25	4.70	500
2	R13	5.00	470
1	0+37	4.50	520
2	R13	4.60	510

(15)

	0450	4.10	560
	R13	4.40	530
1	0463	3.90	580
	R13	4.10	560
1	0475	4.00	570
	R13	3.90	580
1	0487	4.30	540
	R13	3.80	590
1	1400	4.50	520
	R13	3.90	580
2	1413	4.70	500
	R13	4.10	560
2	1425	4.70	500
	R13	4.60	510
2	1437	4.70	500
	R13	4.50	520
2	1450	4.30	540
	R13	4.50	520
2	1463	4.10	560
1	R13	4.30	540
2	1475	4.20	550
1	R13	4.10	560
2	1487	4.20	550
1	R13	4.00	570
2	2400	4.10	560
1	R13	4.10	560

16

2+13	4.30	540
R13	4.10	560
2+25	4.10	560
R13	4.10	560
2+39	4.10	560
R13	4.00	570
2+50	4.10	560
R13	3.90	580
2+63	3.90	580
R13	3.80	590
2+75	3.90	580
R13	3.70	600
2+87	3.70	600
R13	3.70	600
2+00	3.70	600
R13	3.60	610
2+13	3.70	600
R13	3.60	610
2+25	3.60	610
R13	3.60	610
2+37	3.60	610
R13	3.70	600
2+50	3.60	610
R13	3.90	580
2+63	3.80	590
R13	4.30	540

(17)

3+75	3.90	580
R08	4.10	560
R13	4.60	510
3+87	4.10	560
R06	4.10	560
R13	4.80	490
4+00	4.20	550
R03	4.20	550
R13	4.70	500
4+13	4.20	550
R13	5.00	470
4+25	4.20	550
R13	5.00	470
4+37	4.60	510
R13	5.00	470
4+50	4.90	480
R13	4.90	480
4+63	4.70	500
R13	4.80	490
4+75	4.90	480
R13	4.90	480
4+87	4.70	500
R13	4.60	510
5+00	4.60	510
R13	4.40	530

(18)

5+13	4.40	530
R13	4.40	530
5+25	4.60	510
R13	4.60	510
5+37	4.80	490
R13	4.60	510
5+50	4.60	510
R13	4.60	510
5+63	4.50	520
R13	4.70	500
5+75	4.20	550
R13	4.70	500
5+87	4.50	520
R13	4.00	570
6+00	4.00	570
R13	4.40	530
6+13	3.70	600
R13	3.80	590
6+25	3.70	600
R13	3.80	590
6+37	3.90	580
R13	4.10	560
6+50	4.50	520
R13	4.80	490
6+63	3.40	630
R13	3.20	650

(19)

6+75	3.50	620
R13	3.40	630
6+87	3.70	600
R13	3.40	630
7+00	3.40	630
R13	3.30	640

G₂ to G₃-Line

0+00	5.00	470
R13	4.90	480
0+13	5.10	460
R13	5.10	460
0+25	4.60	510
R13	4.80	490
0+37	4.10	560
R13	4.30	540
0+50	4.20	550
R13	4.00	570
0+63	4.70	500
R13	4.10	560
0+75	4.70	500
R13	4.60	510
0+87	4.60	510
R13	4.60	510
1+00	4.30	540
R13	4.60	510

(20)

1+13	4.20	550
R13	4.50	520
1+25	4.60	510
R13	4.50	520
1+37	5.50	420
R13	4.70	500
1+50	5.20	450
R13	4.50	520
1+63	4.80	490
R13	4.20	550
1+75	4.60	510
R13	4.10	560
1+87	4.50	520
R13	4.20	550
2+00	4.10	560
R13	3.90	580
2+13	3.70	600
R13	3.70	600
2+25	4.00	570
R13	3.80	590
2+37	3.90	580
R13	3.90	580
2+50	4.10	560
R13	4.20	550
2+63	4.40	530
R13	4.10	560

(21)

2+75	4.20	550
R13	4.10	560
2+87	4.00	570
R13	4.00	570
3+00	4.20	550
R13	3.80	590
3+13	4.00	570
R13	3.70	600
3+25	3.80	590
R13	3.60	610
3+37	3.60	610
R13	3.60	610
3+50	3.50	620
R13	3.60	610
3+63	3.60	610
R13	3.70	600
3+75	3.60	610
R13	3.80	590
3+87	3.70	600
R13	3.90	580
4+00	3.70	600
R13	4.00	570
4+13	3.80	590
R13	4.00	570
4+25	3.90	580
R13	4.10	560

(22)

4+37	4.00	570
R13	4.20	550
4+50	4.20	550
R13	4.20	550
4+63	4.30	540
R13	4.10	560
4+75	4.20	550
R13	4.00	570
4+87	4.20	550
R13	4.00	570
5+00	4.10	560
R13	4.10	560
5+13	4.10	560
R13	4.10	560
5+25	4.10	560
R13	4.60	510
5+37	4.20	550
R13	4.60	510
5+50	4.40	530
R13	4.00	570
5+63	4.20	550
R13	4.50	520
5+75	4.00	570
R13	4.50	520
5+87	3.80	590
R13	4.10	560

(23)

6+00	380	590
R13	380	590
6+13	3.60	610
R13	3.70	600
6+25	3.70	600
R13	3.70	600
6+37	3.50	620
R13	3.70	600
6+50	4.10	560
R13	3.90	580
6+63	3.70	600
R13	3.90	580
6+75	3.70	600
R13	3.50	620
6+87	3.50	620
R13	3.40	630
7+00	3.40	630
R13	3.80	590

H2 to H3 Line

0+00	5.00	470
R13	5.10	460
0+13	4.70	500
R13	4.90	480
0+25	4.30	540
R13	4.30	540

(24)

0+39	4.60	510
R13	4.20	550
0+50	4.70	500
R13	4.60	510
0+63	4.80	490
R13	4.70	500
0+75	4.60	510
R13	4.60	510
0+87	4.80	490
R13	4.70	500
1+00	4.90	480
R13	4.80	490
1+13	4.50	520
R13	4.40	530
1+25	4.70	500
R13	4.90	480
1+37	4.80	490
R13	5.00	470
1+50	4.90	480
R13	4.70	500
1+63	5.10	460
R13	5.10	460
1+75	4.90	480
R13	4.90	480
1+87	4.80	490
R13	4.60	510

(25)

2+00		4.80	490
R13		5.10	460
2+13		5.60	410
R07		6.60	310
R13		4.70	500
2+25		4.90	480
R13		5.20	450
2+37		4.50	520
R13		4.00	570
2+50		4.90	480
R13		4.20	550
2+63		4.40	530
R13		4.30	540
2+75		4.50	520
R13		3.80	590
2+87		4.30	540
R13		3.90	580
3+00		4.20	550
R13		4.20	550
	3.75		7.03
	10.78		
3+13		5.30	550
R13		5.20	560
3+25		5.20	560
R13		5.10	570
3+37		4.90	590
R13		4.70	610

B.M. Tel Pole.

(26)

3+50	4.90	590
R13	4.50	630
3+63	4.80	600
R13	4.80	600
3+75	4.60	620
R13	4.70	610
3+87	4.90	590
R13	4.90	590
4+00	5.10	570
R13	4.80	600
4+13	5.10	570
R13	4.80	600
4+25	5.20	560
R13	4.90	590
4+37	5.10	570
R13	4.90	590
4+50	5.10	570
R13	4.90	590
4+63	5.00	580
R13	5.00	580
4+75	5.00	580
R13	5.10	570
4+87	4.90	590
R13	5.00	580
5+00	5.00	580
R13	5.10	570

(27)

5+13	5.10	570
R13	5.20	560
5+25	5.20	560
R13	5.20	560
5+37	5.30	550
R13	5.20	560
5+50	5.20	560
R13	5.20	560
5+63	5.40	540
R13	5.10	570
5+75	5.50	530
R13	5.00	580
5+87	5.50	530
R13	5.00	580
6+00	5.30	550
R13	4.90	590
6+13	5.20	560
R13	4.80	600
6+25	4.90	590
R13	4.80	600
6+37	4.80	600
R13	4.50	630
6+50	4.60	620
R03	4.40	640
R05	3.50	730
R13	4.80	600

(28)

6+63	4.50	630
R06	3.80	700
R13	3.80	700
6+75	4.10	670
R05	3.30	750
R13	5.20	560
6+87	4.30	650
R03	4.90	590
R13	5.00	580
7+00	3.70	710
R03	4.50	630
R13	4.70	610

I₂ to I₃ Line

0+00	6.00	480
R13	6.40	440
0+13	5.50	530
R13	5.60	520
0+25	5.80	500
R13	5.60	520
0+37	5.70	510
R13	5.80	500
0+50	5.80	500
R13	5.80	500
0+63	6.00	480
R13	6.00	480
L32.5	5.70	510

Robbins Boat Shop

Yard

ENCLOSURE

32.5 x 0+65

(29)

0+75	6.20	460
R13	6.00	480
L32.5	6.10	470
0+87	6.00	480
R05	5.70	510
R13	5.70	510
L31.4	5.90	490
1+00	6.20	460
R13	6.00	480
L13	6.30	450
L29.8	6.80	400
1+13	6.30	450
R13	5.80	500
L13	6.50	430
L28.8	7.10	370
1+25	6.20	460
R13	5.60	520
L13	6.90	390
L27.0	7.30	350
1+37	6.90	410
R13	6.10	470
L13	7.00	380
L25.8	8.00	280
1+50	6.80	400
R13	6.40	440
L13	7.10	370

Fence < 32.5 >

Fence < 31.4 >

Fence < 29.8 >

Fence

Fence

Fence

(30)

L 23.8	8.20	260
1+63	6.90	390
R 13	6.70	410
L 13	7.90	290
L 22.5	8.70	210
1+75	7.30	350
R 03	6.50	430
R 13	6.30	450
L 13	8.20	260
L 20.8	8.50	230
1+87	7.50	330
R 13	6.50	430
L 13	8.30	250
L 19.7	8.70	210
2+00	7.00	380
R 13	6.50	430
L 13	8.20	260
L 17.8	8.50	230
2+13	6.90	390
R 13	6.80	400
L 16.6	7.30	350
2+25	6.60	420
R 13	6.70	410
L 13	6.90	390
L 15.3	6.90	390

Fence

Fence

Fence

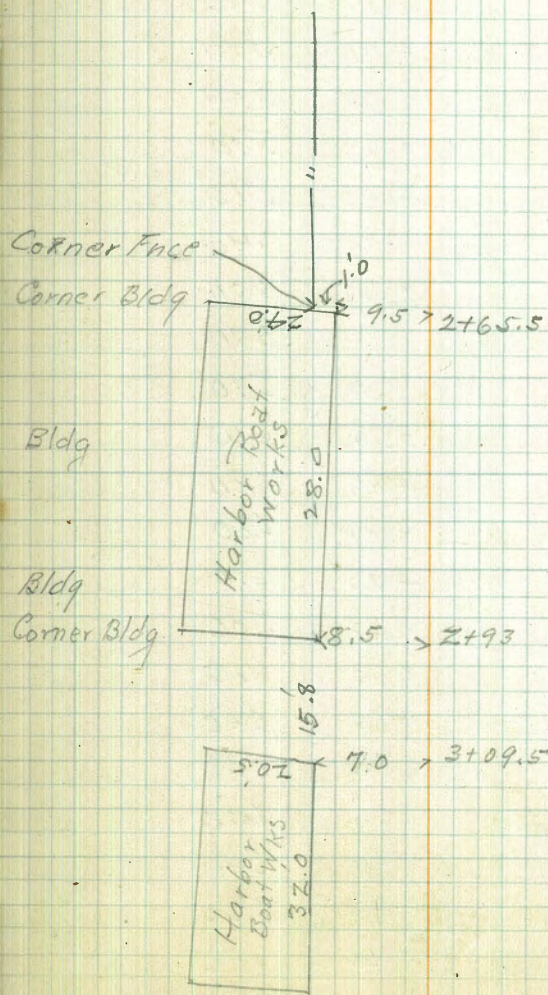
Fence

Fence

(31)

2+37	6.00	480
R13	5.70	510
L13.6	6.60	420
2+50	6.30	450
R13	5.70	510
L12.1	6.40	440
2+63	5.30	550
R13	5.70	510
L10.5	5.70	510
2+65.5	4.90	590
L9.5	4.90	590
2+75	5.10	570
R13	5.50	530
L9.0	4.80	600
2+87	5.00	580
R13	5.20	560
L8.7	4.80	600
2+93	4.80	600
3+00	5.20	560
R13	5.40	540
L13	5.20	560
3+13	5.40	540
R13	5.40	540
L7.0	5.30	550

Fence



(32)

3+25	5.20	560
R13	5.30	550
L6.7	4.90	590
3+37	5.00	580
R13	5.10	570
L6.1	4.90	590
3+41.5	5.00	580
3+50	5.00	580
R13	5.00	580
L13	5.20	560
3+58.7	4.80	600
3+63.1	4.80	600
R13	5.10	570
3+71	4.90	610
3+75	4.80	600
R13	4.80	600
3+87	4.70	610
R13	5.00	580
L13	4.70	610
4+00	4.80	600
R13	5.00	580
L13	4.60	620
4+13	5.00	580
R13	5.30	550
L13	4.40	640

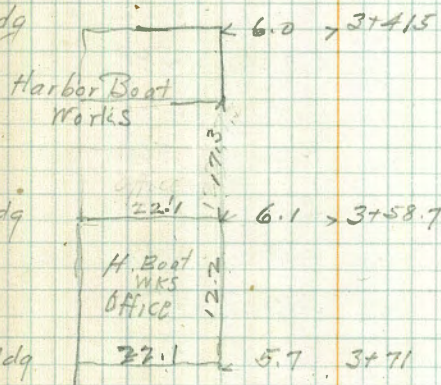
Bldg

Bldg

Cor. Bldg

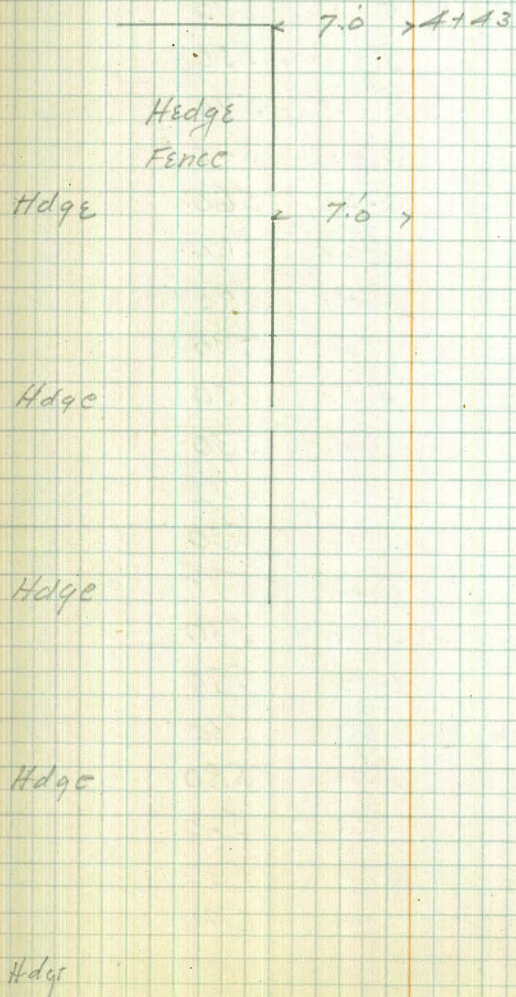
Cor. Bldg

Cor. Bldg



33

4+25	5.20	560
R13	5.40	540
L13	5.40	540
4+37	5.40	540
R13	5.20	560
L13	5.50	530
4+43	5.30	550
4+50	5.40	540
R13	5.40	540
L07	5.20	560
L13	5.00	580
4+63	5.30	550
R13	5.10	570
L07	5.00	580
L13	5.00	580
4+75	5.10	570
R13	4.90	590
L07	4.90	590
L13	5.10	570
4+87	5.00	580
R13	5.00	580
L07	5.00	580
L13	5.20	560
5+00	5.20	560
R13	5.10	570
L07	4.90	590



(34)

L13	5.20	560
5+13	5.30	550
R13	5.10	570
L07	5.20	560
L13	5.30	550
5+25	5.10	570
R13	5.30	550
L07	5.10	570
L13	5.40	540
5+37	5.20	560
R13	5.20	560
L07	5.40	540
L13	5.50	530
5+50	5.30	550
R13	5.50	530
L07	5.30	550
L13	5.30	550
5+63	5.10	570
R13	5.50	530
L07	5.10	570
L13	5.20	560
5+75	5.50	530
R13	5.60	520
L09	5.50	530
L13	5.40	540

Hdgc

Hdgc

Hdgc

Hdgc

Hdgc

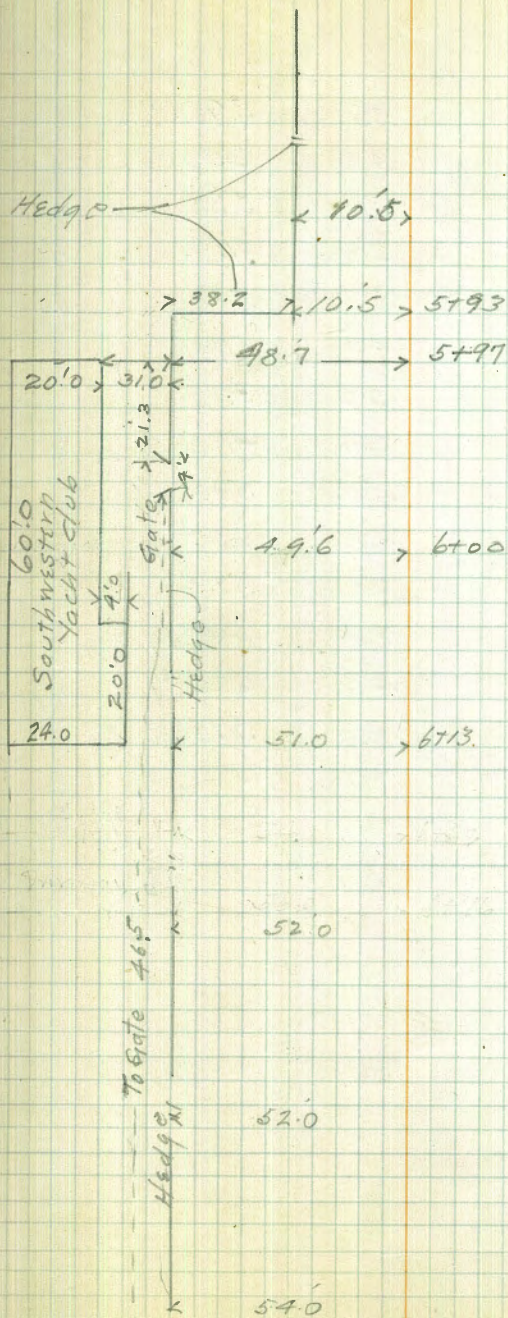
Hdgc

Hedge fence

7.07

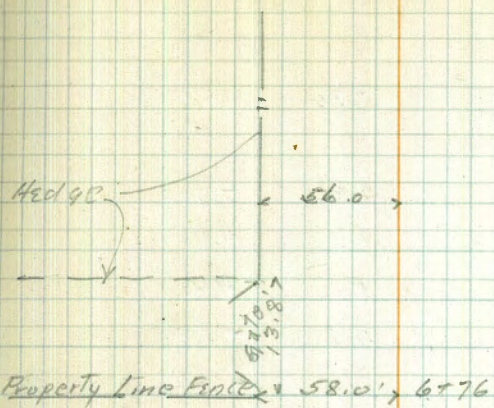
(35)

5+87	5.60	520
R13-	5.60	520
L10	5.50	530
L13	5.70	510
5+93	5.50	530
L48.7	5.80	500
6+00	5.50	530
R13	5.40	540
L13	5.80	500
L49.6	6.20	460
6+13	5.30	550
R13	5.20	560
L13	5.70	510
L51	6.20	460
6+25	5.10	570
R13	5.00	580
L13	5.50	530
L52	6.30	450
6+37	4.90	590
R13	4.90	590
L13	5.40	540
L52	6.20	460
6+50	4.90	590
R13	4.90	590
L13	5.30	550
L54	6.00	480



36

6+63	4.90	590
R13	4.80	600
L13	5.30	550
L56	6.20	460
6+75	5.00	580
R13	4.90	590
L13	5.20	560
L58	6.20	460
6+87	4.90	590
R13	4.80	600
L13	5.20	560
7+00	4.90	590
R13	4.60	620
L13	5.00	580



DeBerard Recorded to this Point

(37)

Meander Line on Shore

Sta.	+	-	Elev
B.M.	3.20	10.23	7.03
P		5.36	4.87
	4.79	9.66	
0+00		4.8	4.9
Rt 5.6		4.9	4.8
Lft. 4.0		5.3	4.4
L 13		11.1	Minus - 1.4
L 15		13.5	Minus - 3.8
L 21		14.5	Minus - 5.8
0+13		4.6	5.1
Rt 13		4.7	5.0
Rt 33		4.8	4.9
L 7		6.5	3.2
L 11		8.5	1.2
L 15		11.9	Minus - 2.2
L 21		14.5	Minus - 4.8
0+25		5.2	4.5
Rt 13		4.9	4.8
Rt 50		4.8	4.9
Rt 60		4.7	5.0
L 9		6.2	3.5
L 14		9.5	0.2
L 20		14.5	Minus - 4.8
0+37		4.9	4.8
Rt 13		4.9	4.8
Rt 50		4.7	5.0

Aug 22 - 34

Keyes T

B.M. Tel Pole

(38)

Sta	+	T	-	Fluv
Rt 55		9.66	4.6	5.1
L 7			5.9	3.8
L 13			9.5	0.2
L 19			14.5	Minus 4.8
Ot 50			5.4	4.3
Rt 13			4.9	4.8
L 6			7.7	2.0
L 12			11.5	Minus 1.8
L 15			12.3	Minus 2.6
L 17			16.5	Minus 6.8
L 19			17.3	Minus 7.6
Ot 63			5.2	4.5
Rt 13			5.0	4.7
L 5			6.1	3.6
L 9			8.2	1.5
L 13 Whf			8.5	1.2
L 26 Whf			8.5	1.2
L 26 Bottom			18.5	Minus 8.8
Ot 75			5.1	4.6
Rt 13			4.9	4.8
L 6			6.0	3.7
L 13 Whf.			8.5	1.2
L 22 Whf			8.5	1.2
L 22 Bottom			15.8	Minus 6.1
+ 87			4.8	4.9
Rt 13			4.8	4.9

(39)

Sta	T	-	Flev
L 4	9.66	5.2	4.5
L 13 Whf		8.5	1.2
L 22 Whf		8.5	1.2
L 22 Bottom		15.5	Minus - 5.8
1+00		5.0	4.7
Rt 7		4.8	4.9
L 3		5.4	4.3
L 13 Whf		8.5	1.2
L 22 Whf		8.5	1.2
L 22 Bottom		7.5	2.2
1+13		5.0	4.7
Rt 8		4.7	5.0
L 3		5.5	4.2
L 13 Whf		8.3	1.4
L 22 Whf		8.3	1.4
L 23 Bottom		15.0	Minus - 5.3
1+25		5.1	4.6
Rt 9		4.7	5.0
L 5		6.4	3.3
L 13 Whf		8.3	1.4
L 22 Whf		8.3	1.4
L 23 Bottom		14.3	Minus - 4.6
1+37		5.0	4.7
Rt 10		4.7	5.0
L 5		6.2	3.5
L 13 Whf		8.3	1.4

(40)

Sta	+	T	-	Elck.
L 22 Whf		9.66	8.2	1.5
L 23 Bottom			13.5	Minus - 3.8
1+50			4.9	4.8
Rt. 10			4.6	5.1
L. 5			5.6	4.1
L. 13 Whf.			8.3	1.4
L 22 Whf.			8.2	1.5
L 23 Bottom			12.0	Minus - 2.3
P.			4.81	4.85
	4.97	9.82		
1+63			4.8	5.0
Rt. 11			4.6	5.2
L. 2			5.0	4.8
L 13			8.0	1.8
L 19			8.4	1.4
L 22			9.3	0.5
L 25			10.1	Minus - 0.3
L 30			11.6	Minus - 1.8
1+75			4.7	5.1
Rt 13			4.8	5.0
Rt. 41			4.2	5.6
L 8			6.0	3.8
L 13			8.1	1.7
L 17			8.6	1.2
L 22			8.6	1.2
L 26			10.5	Minus - 0.7

(40)

	+	π	-	Flux
L 32		9.82	11.0	1.2
1+87			5.2	4.6
Rt 13			4.9	4.9
Rt 50			4.4	5.4
L 6			6.2	3.6
L 15			8.3	1.5
L 22			8.6	1.2
L 27			9.5	0.3
L 31			9.7	0.1
2+00			5.5	4.3
Rt 13			5.0	4.8
Rt 45			4.4	5.4
L 6			5.8	4.0
L 13			7.7	2.1
L 22			8.1	1.7
L 27			9.0	0.8
L 30			9.1	0.7
2+13			6.1	3.7
Rt 13			4.9	4.9
Rt 39			4.6	5.2
L 13			6.9	2.9
2+25			6.2	3.6
2+37			6.5	3.3
Rt 3			6.2	3.6
L 13			7.1	2.7
2+50			6.9	2.9

(A2)

Sta	+	T	-	Elev.
Rt 3		9.82	6.6	3.2
L 13			7.5	2.3
Rt 63			7.7	2.4
Rt 3			7.3	2.5
L 13			7.9	1.9
L 40			10.2	Minus 0.4
L 60			11.5	Minus 1.7
L 80			13.3	Minus 3.5
L 100			14.9	Minus 5.1
L 120			16.5	Minus 6.7
Rt 75			7.7	2.1
Rt 3			7.5	2.3
L 13			9.0	0.8
Rt 87			8.0	1.8
Rt 3			7.8	2.0
L 13			9.1	0.7
L 40			10.8	Minus 1.0
L 60			12.5	Minus 2.7
L 80			13.6	Minus 3.8
L 100			15.3	Minus 5.5
L 115			16.5	Minus 6.7
3+00			8.0	1.8
Rt 3			7.8	2.0
L 13			9.1	0.7
P			7.96	1.86

3.40 5.26

(43)

Sta	+	π	-	Elev.
3+13		5.26	3.5	1.8
Rt. 13			3.1	2.2
Rt. 19			3.0	2.3
Rt. 24			1.6	3.7
Rt. 50			1.2	4.1
Rt. 71			0.7	4.6
Rt. 77			0.0	5.3
3+25			4.3	1.0
L 13			4.4	0.9
Rt. 13			4.0	1.3
Rt. 20			3.5	1.8
Rt. 22			2.3	3.0
Rt. 50			1.6	3.7
Rt. 68			1.2	4.1
Rt. 72			0.8	4.5
Rt. 75			0.0	5.3
3+37			4.8	0.5
L 13			5.1	0.2
Rt. 13			4.3	1.0
Rt. 20			4.1	1.2
Rt. 23			2.5	2.8
Rt. 50			2.1	3.2
Rt. 65			1.7	3.6
Rt. 70			1.1	4.2
Rt. 73			0.0	5.3

(44)

Sta	T	-	Elev.
3+50	5.26	5.4	Minus 0.1
L 13		5.3	0.0
Rt 16		5.4	Minus 0.1
Rt 23		3.9	1.4
Rt 50		3.5	1.8
Rt 55		2.6	2.7
Rt 65		2.5	2.8
Rt 70		1.7	3.6
Rt 74		0.9	4.4
3+59		5.5	Minus 0.2
3+63		4.5	0.8
L 4		6.0	Minus 0.7
L 13		5.6	Minus 0.3
L 25		6.8	Minus 1.5
Rt 13		4.7	0.6
Rt 35		4.8	0.5
Rt 40		3.8	1.5
Rt 50		3.9	1.4
Rt 66		3.5	1.8
3+75		4.6	0.7
L 7		6.7	- 1.4
L 13		6.8	- 1.5
Rt 13		4.8	0.5
Rt 27		5.0	0.3
Rt 33		3.9	1.4
Rt 50		3.6	1.7

(43)

Sta	+	T	-	Elev
Rt 68		5.26	3.8	1.5
Rt 74			3.4	1.9
3+87			4.8	0.5
L 9			7.4	-2.1
L 13			7.6	-2.3
Rt 13			5.0	0.3
Rt 21			5.3	0.0
Rt 33			3.5	1.8
Rt 50			3.5	1.8
Rt 65			4.1	1.2
Rt 72			4.1	1.2
4+00			5.1	0.2
L 2			5.1	0.2
L 9			8.0	-2.7
L 13			8.4	-3.1
Rt 13			5.4	-0.1
Rt 24			4.4	0.9
Rt 37			3.9	1.4
Rt 50			4.0	1.3
Rt 70			4.1	1.2
4+13			5.2	0.1
L 3			5.2	0.1
L 10			8.9	-3.6
L 13			9.3	-4.0
Rt 13			5.0	0.3
Rt 18			5.9	-0.6

(46)

Sta	+	T	-	Elev.
Rt 22		5.26	4.5	0.8
Rt 41			4.1	1.2
Rt 50			4.6	0.7
Rt 69			4.7	0.6
P			3.40	1.86

4.23 6.09

4 + 25			6.0	0.1
L 3			6.8	-0.7
L 9			10.7	-4.6
Rt 13			6.3	-0.2
Rt 23			6.7	-0.6
Rt 35			4.8	1.3
Rt 50			4.5	1.6
Rt 68			5.2	1.9
4 + 37			6.6	-0.5
L 3			6.6	-0.5
L 7			7.9	-1.8
L 10			11.7	-5.6
Rt 13			6.3	-0.2
Rt 27			6.3	-0.2
Rt 32			4.9	1.2
Rt 50			4.4	1.7
Rt 67			5.4	0.7
4 + 50			6.7	-0.6
L 3			7.0	-0.9
L 5			7.9	-1.8

Hub Sta 3+11.40

(47)

Sta	T	-	Elev.
L. 9	6.09	12.7	- 6.6
4 + 58 ¹²			
4 + 63		6.7	- 0.6
L. 3		7.9	- 1.8
L. 8		9.2	- 3.1
L. 10		10.7	- 4.6
L. 12		13.7	- 7.6
Rt 13		6.6	- 0.5
4 + 75		7.3	- 1.2
L. 3		8.6	- 2.5
L. 8		10.7	- 4.6
L. 11		13.3	- 7.2
Rt 2		6.7	- 0.6
Rt 7		6.2	- 0.1
Rt 13		6.1	0.0
4 + 87		7.4	- 1.3
L. 2		8.4	- 2.3
L. 5		9.0	- 2.9
L. 7		10.7	- 4.6
L. 10		14.1	- 8.0
Rt. 2		6.7	- 0.6
Rt 9		6.1	0.0
Rt 13		5.6	0.5
5 + 00		7.7	- 1.6
L. 3		8.3	- 2.2
L. 5		9.7	- 3.6

(48)

Sta	T	-	Elev
L. 6	6.09	10.7	-4.6
L. 8		12.5	-6.4
Rt 3		7.0	-0.9
Rt. 7		5.7	0.4
Rt 11		4.9	1.2
Rt 13		4.7	1.4
5+13		8.7	-2.6
L. 2		8.7	-2.6
L. 3		10.7	-4.6
L. 5		11.9	-5.8
Rt 3		7.6	-1.5
Rt. 7		7.0	-0.9
Rt. 13		6.3	-0.2
Rt 20		4.6	1.5
5+25		8.7	-2.6
L. 3		9.7	-3.6
L. 6		10.9	-4.8
L. 13		12.9	-6.8
Rt. 4		8.0	-1.9
Rt 13		7.6	-1.5
Rt 17		7.1	-1.0
Rt 22		5.4	0.7
5+37		6.0	0.1
L. 5		6.2	-0.1
L. 8		8.9	-2.8
L. 12		11.0	-5.9

(49)

Sta	+	T	-	Elev.
L15		6.09	12.8	-6.7
R+7			6.1	0.0
R+13			6.4	-0.3
5+47 ⁶⁷				
5+50			6.5	-0.4
L3			7.0	-0.9
L7			7.7	-1.6
L8			9.2	-3.1
L24			9.8	-3.7
L32			9.6	-3.5
L41			9.7	-3.6
R+5			6.1	0.0
5+63			6.2	-0.1
L4			6.4	-0.3
27			6.9	-0.8
L8			8.1	-2.0
L24			8.6	-2.5
L32			8.2	-2.1
L41			8.1	-2.0
R+6			6.0	0.1
R+13			6.6	-0.5
5+75			5.8	0.3
L5			5.8	0.3
L8			6.2	-0.1
L9			7.4	-1.3
L24			7.9	-1.6

(50)

Sta	+	π	-	Elev.
L32		6.09	7.7	-1.6
L41			7.6	-1.5
Rt13			5.9	0.2
Rt27			6.2	-0.1
5+87			5.5	0.6
L7			5.6	0.5
L9			6.8	-0.7
L20			7.2	-1.1
Rt13			5.8	0.3
Rt27			5.9	0.2
6+00			4.8	1.3
L7			4.8	1.3
L9			6.3	-0.2
L22			6.5	-0.4
Rt13			5.5	0.6
Rt27			5.8	0.3
6+13			4.1	2.0
L8			4.2	1.9
L10			5.8	0.3
L22			5.8	0.3
L30			5.4	0.7
L39			4.4	1.7
Rt8			3.7	2.4
Rt13			2.8	3.3
Rt17			2.3	3.8
Rt25			3.3	2.8

(51)

Sta	+	π	-	Elev.
F.		6.09	4.75	1.34
	9.15	10.49		
G+25			7.9	2.6
L8			8.2	2.3
L10			9.5	1.0
L21			9.7	0.8
R+7			7.6	2.9
R+13			7.0	3.5
R+27			8.2	2.3
R+32			8.7	1.8
G+37			7.5	3.0
L9			7.3	3.2
L10			8.4	2.1
L21			8.8	1.7
R+7			7.1	3.4
R+13			6.4	4.1
R+29			6.7	3.8
R+34			6.9	3.6
G+50			6.8	3.7
L12			8.2	2.3
L21			8.1	2.4
R+13			5.7	4.8
R+32			5.8	4.7
G+63			5.6	4.9
R+13			4.9	5.6
R+37			5.1	5.4

(52)

3+a	+	π	-	Elev
6+75		10.49	5.4	5.1
R+13			5.1	5.4
6+87			6.6	3.9
L.13			7.4	3.1
R+3			5.6	4.9
7+00			6.4	4.1
L.13			8.8	3.7
L.28			7.9	2.6
R+3			6.2	4.3
7+13			5.6	4.9
L.13			6.6	3.9
L.29			7.4	3.1
L.38			7.9	2.6
R+12			5.1	5.4
7+25			5.6	4.9
L.10			6.7	3.8
L.27			7.4	3.1
F			4.77	5.72
	4.80	10.52		
7+37			6.1	4.4
L.13			7.1	3.4
R+13			5.2	5.3
R+25			4.4	6.1
7+50			5.6	4.9
L.13			6.6	3.9
R+13			4.6	5.9

(53)

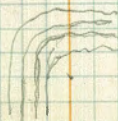
Sta	+	π	-	Elev.
7+63		10.52	4.8	5.7
L3			5.3	5.2
L7			6.3	4.2
Rt. 13			4.5	6.0
Rt. 27			4.4	6.1
Rt. 33			5.2	5.3
Rt. 50			5.2	5.3
Rt. 60			4.8	5.7
7+75			4.9	5.6
L. 2			4.9	5.6
L. 4			6.2	4.3
L. 9			7.0	3.5
L. 14			7.1	3.4
L. 30			7.1	3.4
Rt. 13			4.4	6.1
Rt. 27			4.5	6.0
Rt. 38			5.3	5.2
Rt. 50			5.1	5.4
Rt. 59			5.0	5.5
7+87			5.5	5.0
L. 3			5.5	5.0
L. 5			6.6	3.9
L. 7			7.5	3.0
L. 16			7.9	2.6
L. 29			7.7	2.8
Rt. 13			5.4	5.1

(54)

Sta	+	T	-	Elev
Rt. 21		10.52	5.3	5.2
Rt 27			4.8	5.7
Rt 34			4.9	5.6
Rt 41			5.5	5.0
Rt 50			5.4	5.1
Rt 62			5.2	5.3
8+00			5.5	5.0
L 2			5.8	4.7
L 5			7.0	3.5
L 10			8.2	2.3
L 20			8.5	2.0
L 29			8.5	2.0
Rt. 13.			5.5	5.0
Rt 24			5.3	5.2
Rt 32			5.0	5.5
Rt 40			5.7	4.8
Rt. 50			5.6	4.9
Rt. 62			5.4	5.1
8+13			5.9	4.6
L 5			5.9	4.6
L 7			8.2	2.3
L 13			9.3	1.2
L. 30			9.1	1.4
Rt. 13			5.8	4.7
Rt. 29			5.5	5.0
Rt. 36			5.8	4.7

(53)

Sta	+	T	-	Elev.
Rt 50		10.52	5.8	4.7
Rt 63			5.6	4.9
B+25			6.1	4.4
L 5			6.2	4.3
L 7			9.3	1.2
L 15			9.9	0.6
L 28			10.0	0.5
Rt 13			6.0	4.5
Rt 31			5.3	5.2
Rt 36			5.8	4.7
Rt 50			5.9	4.6
Rt 65			5.7	4.8
B+37			6.2	4.3
L 5			6.3	4.2
L 8			7.8	2.7
L 13			10.6	-0.1
L 30			10.9	-0.4
Rt 13			6.1	4.4
B+50			5.8	4.7
L 3			6.3	4.2
L 6			8.5	2.0
L 11			11.1	-0.6
L 27			11.4	-0.9
B+52 ⁹⁶				
B+63			5.8	4.7
L 3			5.8	4.7



(56)

Sta	T		Elev.
L. 5	10.52	8.1	2.4
L. 10		12.8	-2.3
L. 21		14.8	-4.3
L. 44		17.4	-6.9
Rt. 13		6.1	4.4
8+75		7.6	2.9
L. 5		10.8	-0.3
L. 8		12.0	-1.5
L. 19		15.0	-4.5
L. 43		17.5	-7.0
L. 54		18.0	-7.5
Rt. 3		5.7	4.8
Rt. 13		6.1	4.4
8+87		9.1	1.4
L. 9		11.7	-1.2
L. 17		14.8	-4.3
L. 37		17.7	-7.2
L. 52		18.0	-7.5
Rt. 3		6.5	4.0
Rt. 7		6.0	4.5
Rt. 13		5.8	4.7
9+00		7.3	3.2
L. 6		9.7	0.8
L. 8		12.0	-1.5
L. 16		14.7	-4.2
L. 35		17.0	-6.5

(57)

Sta	+	T	-	Elev
L54		10.52	18.0	-7.5
Rt 3			6.2	4.3
Rt 7			5.1	5.4
Rt 13			5.8	4.7
9+13			5.6	4.9
L 4			7.7	2.8
L 7			10.8	-0.3
L 9			12.0	-1.5
L 16			14.8	-4.3
L 26			16.0	-5.5
L 48			17.7	-7.2
L 56			18.0	-7.5
Rt 4			4.6	5.9
Rt 9			5.4	5.1
P			4.76	5.76
	3.43	9.19		
9+25			4.4	4.8
L 5			7.7	1.5
L 9			10.8	-1.6
L 12			12.0	-2.8
L 17			13.5	-4.3
L 36			15.7	-6.5
L 50			16.5	-7.3
L 65			17.0	-7.8
Rt 3			3.4	5.8
Rt 10			5.0	4.2

(58)

Sta	+	π	-	Elev.
Rt 13		9.19	5.0	4.2
Rt 20			4.9	4.3
Rt 40			4.5	4.7
Rt 60			4.0	5.2
Rt 80			3.9	5.3
Rt 100			3.9	5.3
9+37			3.7	5.5
L 4			5.9	3.3
L 8			10.4	-1.2
L 12			12.0	-2.8
L 21			14.7	-5.5
L 34			16.3	-7.1
L 62			17.0	-7.8
Rt 3			3.2	6.0
Rt 9			5.2	4.0
Rt 13			4.9	4.3
Rt 20			4.8	4.4
Rt 40			4.4	4.8
Rt 60			4.1	5.1
Rt 80			3.9	5.3
Rt 100			3.9	5.3
9+50			3.4	5.8
L 4			7.1	2.1
L 9			10.8	-1.6
L 11			12.0	-2.8
L 26			15.5	-6.3

(59)

Sta	+	T	-	Elev.
L 34		9.19	16.5	-7.3
L 57			17.0	-7.8
Rt 3			3.2	6.0
Rt 7			5.2	4.0
Rt 13			4.7	4.5
Rt 20			4.6	4.6
Rt 40			4.4	4.8
Rt 60			4.0	5.2
Rt 80			3.8	5.4
Rt 100			3.7	5.5
3+63			5.8	3.4
L 3			7.8	1.4
L 7			11.0	-1.8
L 9			12.0	-2.8
L 25			15.1	-5.9
L 35			16.5	-7.3
L 50			17.0	-7.8
Rt 3			4.5	4.7
Rt 9			5.0	4.2
Rt 13			4.7	4.5
Rt 20			4.7	4.5
Rt 40			4.6	4.6
Rt 60			4.1	5.1
Rt 80			3.9	5.3
Rt 100			3.8	5.4

(60)

Sta	+	T	-	Elev.
9+75		9.19	3.5	5.7
L7			8.7	0.5
L11			12.0	-2.8
L30			15.9	-6.7
L47			17.0	-7.8
Rt3			3.2	6.0
Rt7			5.4	3.8
Rt13			5.0	4.2
Rt20			4.9	4.3
Rt40			4.6	4.6
Rt60			4.0	5.2
Rt80			3.8	5.4
Rt100			4.0	5.2
9+87			3.4	5.8
L6			6.9	2.3
L11			12.0	-2.8
L23			15.2	-6.0
L32			16.1	-6.9
L47			17.1	-7.9
Rt3			3.3	5.9
Rt8			4.9	4.3
Rt13			5.0	4.2
Rt20			4.9	4.3
Rt40			4.5	4.7
Rt60			4.0	5.2
Rt80			3.7	5.5

(61)

Sta	+	-	Elev.
Rt 100	9.19	3.9	5.3
2+96 ⁰⁷		3.4	5.8
L 5		5.3	3.9
L 9		11.1	-1.9
L 13		12.0	-2.8
L 26		15.1	-5.9
L 36		16.1	-6.9
L 50		16.8	-7.6
Rt 2		3.5	5.7
Rt 6		5.1	4.1
Rt 13		5.0	4.2

South Line Grape St

9.19

2+25	3.6	5.6
L 13	3.9	5.3
Rt 13	3.9	5.3
Rt 25	4.1	5.1
Rt 32	4.3	4.9
2+37	3.9	5.3
L 13	3.9	5.3
R 13	4.0	5.2
Rt 25	4.1	5.1
Rt 32	4.1	5.1
2+50	4.0	5.2
L 13	3.9	5.3

(62)

Sta	+	T	-	Elev
Rt 13		9.19	4.0	5.2
Rt 25			4.0	5.2
Rt 31			4.2	5.0
Z+63			3.8	5.4
L13			3.6	5.6
Rt 13			4.1	5.1
Rt 25			4.2	5.0
Rt 39			4.6	4.6
Z+75			4.1	5.1
L13			4.0	5.2
Rt 13			4.3	4.9
Rt 25			4.4	4.8
Rt 41			4.8	4.4
Z+87			4.2	5.0
L13			4.3	4.9
Rt 13			4.6	4.6
Rt 25			4.7	4.5
Rt 40			5.0	4.2
Z+00			4.5	4.7
L13			4.7	4.5
Rt 13			4.6	4.6
Rt 25			4.8	4.4
Rt 41			5.1	4.1
Z+13			4.8	4.4
L13			4.9	4.3
Rt 13			4.8	4.4

(63)

Sta	+	T	-	Elev
Rt 25		9.19	5.2	4.0
Rt 43			5.0	4.2
Rt 50			4.7	4.5
Rt 75			4.7	4.5
Rt 100			5.1	4.1
3+25			5.1	4.1
L13			5.0	4.2
Rt 13			5.1	4.1
Rt 25			4.9	4.3
3+34 ⁰⁰			3.4	5.8
Rt 13			3.3	5.9
Rt 17			3.3	5.9
Rt 25			5.1	4.1
Rt 37			5.7	3.5
Rt 50			4.8	4.4

(64)

Pier No. 1

	+	⊗	-	Elev
	2.94	9.97		7.03
T.P	4.80	9.45	5.32	4.65
1+75			8.20	
L04 WHF			8.20	
L04 Btm			16.70	-7.3
R06 WHF			8.20	
R06 Btm			10.8	-1.4
2+00			8.20	
L04.5 WHF			8.20	
L04.5 Btm			10.3	-0.9
R05.8 WHF			8.30	
R05.8 Btm			19.60	-10.2
2+25			8.10	
L05 WHF			8.10	
L05 Btm			20.30	-10.9
R05.3 WHF			8.10	
R05.3 Btm			21.60	-12.2
2+50			8.10	
L04.8 WHF			8.10	
L04.8 Btm			23.30	-13.9
R05.2 WHF			8.00	
R05.2 Btm			24.30	-14.9
2+75			8.10	
L05 WHF			8.10	
L05 Btm			24.90	-15.5

Keyes, Bell-Ball
Le BeauDeBerard Recorder
Aug 27-1934

B.M. Tol Pole Opposite Robbins Boat Shop.

(65)

R05 WHF	8.10	
R05 BTM	25.80	-16.4
3+00	8.00	
L05.2 WHF	7.90	
L05.2 BTM	25.50	-16.1
R04.8 WHF	8.00	
R04.8 BTM	26.3	-16.9
2+25	8.00	
L05.2 WHF	8.00	
L05.2 BTM	25.40	-16.0
R05 WHF	8.00	
R05 BTM	26.60	-17.2
2+50	8.00	
L04.8 WHF	8.00	
L04.8 BTM	25.80	-16.4
R05.2 WHF	8.00	
R05.2 BTM	26.40	-17.0
3+75	8.00	
L04.7 WHF	8.00	
L04.7 BTM	26.60	-17.2
R05.3 WHF	8.00	
R05.3 BTM	28.30	-18.9
3+95 End Pier	8.30	
L04.6 WHF	8.20	
L04.6 BTM	32.20	-21.8
R26.5 WHF	8.70	
R26.5 BTM	33.30	-23.9

End Pier No 1

(66)

PieK No 2.

+ π - Elev

9.45

O+25	8.20	
L 04.1 WHF	8.20	
L 04.1 BTM	17.30	-7.85
R 04.0 WHF	8.20	
R 04.0 BTM	17.30	-7.85
O+50	8.20	
L 04 WHF	8.20	
L 04 BTM	17.60	-8.15
R 04 W	8.20	
R 04 B	17.70	-8.25
O+75	8.30	
L 04 W	8.30	
L 04 B	18.50	-9.05
R 04 W	8.30	
R 04 B	18.30	-8.80
1+00	8.30	
L 04 W	8.20	
L 04 B	19.30	-9.85
R 04 W	8.20	
R 04 B	19.20	-9.75
1+25	8.30	
L 04.3 W	8.30	
L 04.3 B	22.10	+12.65
R 03.7 W	8.30	
R 03.7 B	22.50	-13.05

 $\frac{16}{12}$

(67)

1750	8.30	
L044 WHF	8.30	
L044 BTM	31.00	-21.45
R03.6 WHF	8.30	
R03.6 BTM	30.10	-20.55
1775	8.30	
L043 W	8.30	
L043 B	32.70	-23.25
R03.7 W	8.40	
R03.7 B	32.40	-22.95
2100	8.30	
L044 W	8.30	
L044 B	33.10	-23.65
R03.6 W	8.30	
R03.6 B	33.00	-23.55
2125	8.30	
L045 WHF	8.40	
L045 BTM	33.70	-24.25
R03.5 W	8.20	
R03.5 B	33.70	-24.25
2139.4	8.50	
L045 WHF	8.50	
L045 BTM	34.80	-25.35
R03.5 WHF	8.50	
R03.5 BTM	34.60	-25.15

End Pier No 2

(68)

Pier No 3.

T

9.45

0+25	9.70	
L03.0 WHF	9.70	
L03.0 BTM	16.30	-6.9
R06.0 WHF	9.50	
R06.0 BTM	15.80	-6.4
0+50	10.60	
L05 W	11.00	
L05 B	18.00	-8.6
R04.5 W	10.70	
R04.5 B	17.00	-7.6
0+75	9.10	
L06 W	9.20	
L06 B	18.40	-9.0
R W	9.10	
R B	18.10	-8.7
1+00	8.70	
L00.5 W	8.70	
L00.5 B	18.70	-9.3
R03.0 W	8.70	
R03.0 B	18.50	-9.1
1+22	8.60	
L01.0 W	8.60	
L01.0 B	20.50	-11.1
R05.3 W	8.60	
R05.3 B	19.90	-10.5

End Pier

(69)

PIEV No 4

+

↑

9.45

0425	10.6	
L015 WHF	10.6	
L015 BTM	14.0	-4.6
R015 WHF	10.6	
R015 BTM	14.0	-4.6
0450	10.4	
L015 W	10.4	
L015 B	15.7	-6.3
R015 W	10.4	
R015 B	15.6	-6.2
0475	10.4	
L015 W	10.4	
L015 B	17.2	-7.8
R015 W	10.4	
R015 B	17.2	-7.8
1400	10.6	
L015 W	10.6	
L015 B	18.2	-8.8
R015 W	10.6	
R015 B	18.2	-8.8
1425	10.7	
L015 W	10.7	
L015 B	19.2	-9.8
R015 W	10.7	
R015 B	19.2	-9.8

(10)

+

↑

-

ELEV

1+46

9.45

10.40

End Pier 4.

L 01.5 WHF

10.40

L 01.5 BTM

22.00 - 12.6

R 01.5 WHF

10.40

R 01.5 BTM

22.10 - 12.7

B.M.

9.69 - 0.24

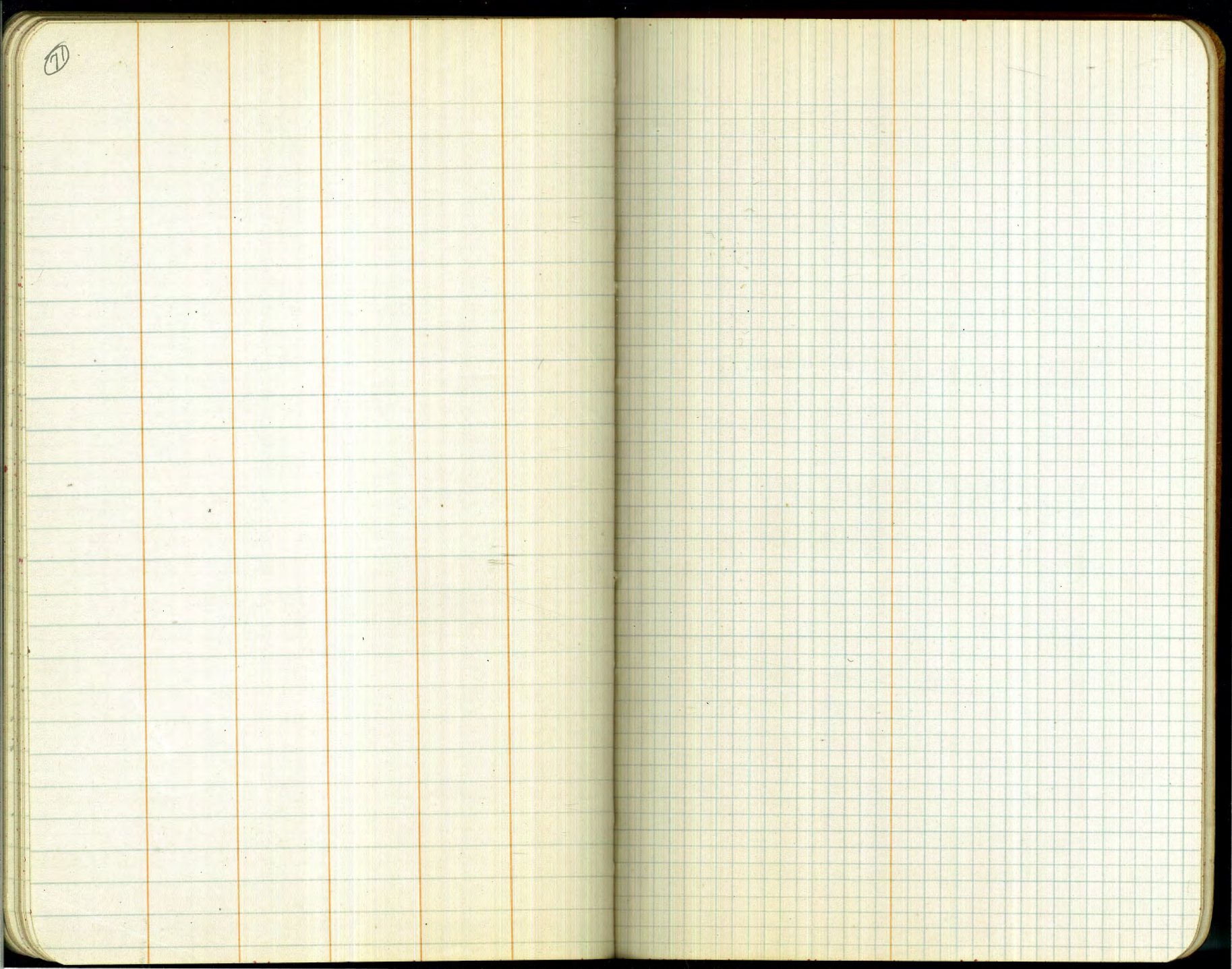
Hub 5+47.67

B.M.

5.54 3.91

Hub 2+21.7

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DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 $\frac{1}{2}$ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut, subtract from fill. Set up rod at this point and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE No. 2.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of correction. Degree of curve with a given T may be found by dividing tangent (or external), opposite T by given tangent (or external). The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

IMPROVED TABLES AND INFORMATION

4.81
4.97
9.82
3.96
1.86
4.23
6.09

7.03
3.50
10.23
5.36
4.87
4.75
9.66

5.72
4.98
10.70
3.61
7.09

9.19
3.08
6.71