

966

can Be Sewer

966

EVIL BOOK

373

F.B.



966

KEUFFEL & ESSER CO.

DRAWING MATERIALS

AND

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO.

SAN FRANCISCO.

ST. LOUIS.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.

FOR SINGLE TRACK EXCAVATION

"Copyright, 1895, by Keuffel & Esser Co."

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

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

Sewer & Alley bet New port & Niagara from & Bacon
 St East 51/2 set 6' South of & Alley

B.M.	+R	H.Z	-R	Elev.	Grade	cut,
B.M. Brass pla N.E. New port & Bacon				11.05		
0+00 & Bacon St	6.41	17.46	4.97	12.49	3.40	9.1
+50			3.95	13.51	3.91	9.6
1			2.9	14.6	4.43	10.2
+50			2.3	15.2	4.94	10.3
2			2.3	15.2	5.46	9.7
+50	7.81	23.30	1.97	15.49	5.97	9.5
3			7.1	16.2	6.49	9.7
+50 M.H. Break			7.2	16.1	7.00	9.1
4			6.68	16.62	7.80	8.8
+50			6.58	16.72	8.61	8.1
5			6.0	17.3	9.41	7.9
+50			5.48	17.82	10.22	7.6
6			4.78	18.52	11.02	7.5
+50			5.51	17.79	11.83	6.0
+60 M.H. & Cable	Break		5.2	18.1	12.00	6.1
7			4.4	18.9	12.48	6.4
+50			3.92	19.38	13.09	6.3
8			2.6	20.7	13.69	7.0
+50			2.51	20.79	14.30	6.5

23.30

9	9.31	30.54	2.07	21.23	14.90	6.3
+50			8.6	21.9	15.51	6.4
+90	M.H. # 158		8.3	22.2	16.00	6.2
10			8.19	22.35	16.12	6.2
+50			7.0	23.5	16.73	6.8
11			6.93	23.61	17.33	6.3
+50			6.2	24.3	17.94	6.4
12			5.64	24.90	18.54	6.4
+50			4.9	25.6	19.15	6.5
13			5.51	25.03	19.75	5.3
+20	M.H. # De Foe		4.46	26.08	20.00	6.1
+50			3.9	26.6	20.55	6.1
14			3.0	27.5	21.46	6.0
+50	9.46	38.50	1.50	29.04	22.37	6.7
15			9.2	29.3	23.28	6.0
+50			8.3	30.2	24.19	6.0
16			7.78	30.72	25.10	5.6
+50	Break M.H. # 156		6.6	31.9	26.00	5.9
17			5.49	33.01	27.66	5.4
+50			4.5	34.00	29.33	4.7

2

38.50

3

1810			3.23	35.27	31.00	4.3
150	12.20	48.99	1.71	36.79	32.67	4.1
19			10.03	38.96	34.33	4.6
150			6.7	42.3	36.00	6.3
180	Break		3.07	45.92	37.00	8.9
	M.H. F. Ebers					8.00
2010	12.28	60.97	0.30	48.69	39.44	9.3
150			4.5	56.5	45.53	11.0
T.P.	12.16	73.08	0.05	60.92		
21			7.42	65.66	51.62	14.0
T.P.	12.21	85.15	0.14	72.94		
150			11.66	73.49	57.71	15.8
22+0			6.1	79.1	63.80	15.3
110	Break		5.29	79.86	65.00	14.9
150			2.6	82.6	68.20	14.4
T.P.	12.25	96.84	0.56	84.59		
23+0			10.81	86.03	72.00	13.8
110	Break		9.42	87.42	73.00	14.4
150			6.7	90.1	77.48	12.6
24			2.41	94.43	83.08	11.4
T.P.	12.07	108.64	0.27	96.57		
150			8.5	100.1	88.69	11.4
25			3.39	105.25	94.29	11.0
T.P.	12.08	120.52	0.20	108.44		
150			11.4	109.1	99.90	9.2
26			6.13	114.39	105.50	8.9

change 5th from Ebers to August

120.52

26+40 M.H. & Froude			0.97	119.55	110.00	9.5
+50	12.01	131.56				
			9.3	122.3	111.38	10.9
27+0	12.18	142.30	1.44	130.12	118.28	11.8
+50			4.0	138.3	125.19	13.1
T.P.	12.27	154.09	0.48	141.82		
28+0			10.08	144.01	132.70	11.9
+50 Break			3.69	150.40	139.00	11.4
T.P.	11.57	164.01	1.65	152.44		
29			9.8	154.2	143.16	11.0
+50			7.48	156.53	147.33	9.2
Break						
+70 M.H.			3.57	160.44	149.00	11.4
T.P.	12.19	175.88	0.32	163.69		
30+0			6.53	169.35	151.75	17.6
+50			5.85	170.03	156.33	13.7
+70 Break			3.24	172.84	160.00	12.6
31+0			2.94	172.94	160.52	12.4
T.P.	11.22	186.01	1.09	174.79		
+50			10.19	185.1	163.14	12.0
32+0			7.65	178.36	165.76	12.6
+50			6.2	179.8	168.38	11.4
Break						
33+0 M.H. & Guizat			4.7	181.3	176.00	10.3
+50			2.0	184.0	172.36	11.6
34	9.24	194.46	0.79	185.22	173.73	11.5
+50			8.3	186.2	175.09	11.1

4

9.57

9.8

194.46

35+0			8.95	185.51	176.46	9.1
+50			9.5	185.0	177.32	7.2
36+0			8.39	186.07	179.19	6.8
+30	break		7.4	187.1	180.00	7.1
+50	M.H. \$1.50		6.9	187.6	180.48	7.1
37+0			5.43	189.03	181.69	7.3
+50			4.45	190.01	182.90	7.1
38			3.3	191.2	184.12	7.1
+50	8.73	201.34	1.85	192.61	185.33	2.3
39			7.5	293.8	186.54	7.3
+50			7.7	293.6	187.75	5.9
+60	break		7.4	293.9	188.00	5.9
	M.H. \$ Santa Barbara					
40+0					190.79	
+50					194.27	
41					197.76	
+50					201.24	
42					204.73	
+56					208.21	
+90	break				211.00	
	M.H.					
43+0					211.42	

5

60

43750

213.53

4440

215.65

+50

217.76

45

219.88

+50 FT. 40' W of Venice St

222.00

6

6.0

Server Φ Alley bet Santa Monica & Newport
from Φ Abbott E for 5170

Note - top strks set 6 South of Φ Alley

0+0 = M.H. Φ Abbott

+50

1

+50

2

+50

3

+30

+50

4

+50

5

+50

6

+50

B.M. N.E. Brass ^{5.08} Plg N.E. Newport & Bacon 11.05
+60 M.H. Φ Bacon 16.13 6.0 10.1 +1.60 8.5

7

4.7 11.4 2.26 7.1

+50

3.9 12.2 3.08 7.1

	16.13					
8+0			3.7	12.4	3.90	8.5
+50			3.4	12.7	4.72	8.0
9			2.56	13.57	5.54	8.0
+50			1.76	14.37	6.36	8.0
+90 M.H. 7.33	22.10		1.36	14.77	7.00	7.8
10			2.2	14.9	7.09	7.8
+50			6.6	15.5	7.54	8.0
11			6.2	15.9	8.00	7.9
+50			5.8	16.3	8.45	7.8
12			5.4	16.7	8.91	7.8
+50			4.60	17.50	9.36	8.1
13			6.7	15.4	9.82	5.6
+20 M.H. & Cable			5.75	16.35	10.00	6.4
+50			5.2	16.9	10.41	6.5
14			3.5	18.6	11.09	7.5
+50			2.4	19.7	11.77	7.9
15			1.99	20.11	12.45	7.7
+50			2.6	19.5	13.13	6.4
16	9.53	29.71	1.92	20.18	13.81	6.4

29.71

9

16+50 M.H.			9.0	20.7	14.49	6.2
17			8.3	21.4	15.17	6.2
+50			7.80	21.91	15.85	6.1
18			7.40	22.3	16.53	5.8
+50			6.73	22.98	17.21	5.8
19			5.4	24.3	17.89	6.4
+50			5.1	24.6	18.57	6.0
+80 M.H. & De Foe			4.6	25.1	19.00	6.1
20			4.8	24.9	19.57	5.3
+50			3.1	26.6	21.00	5.6
21	11.26	39.21	1.76	27.95	22.43	5.5
+50			9.3	29.9	23.86	6.0
22			8.2	31.0	25.30	5.7
+50			6.85	32.36	26.73	5.6
23			5.4	33.8	28.16	5.6
+30 M.H.			4.4	34.8	29.00	5.8
+50			3.66	35.55	29.77	5.8
24	11.90	49.02	2.09	37.12	31.70	5.4
+50			9.4	39.6	33.64	6.0

49.02

10

25			7.50	41.52	35.57	6.0
+50			4.9	44.1	38.51	6.6
26			2.29	46.73	39.44	7.3
T.P.	11.74	60.30	0.46	48.56		
+40 M.H. ϕ Ebers			11.9	48.4	41.00	7.4
+50			11.3	49.0	41.64	7.4
27			8.26	52.04	44.82	7.2
+50			5.21	55.09	48.00	7.1
28			2.4	57.9	51.18	6.7
T.P.	12.68	72.52	0.46	59.84		
+50			11.1	61.4	54.36	7.0
29			8.1	64.4	57.54	6.9
+50			5.72	66.80	60.72	6.1
+70 M.H.			4.6	67.9	62.00	5.9
30			2.8	69.7	64.10	5.6
T.P.	12.72	84.93	0.31	72.21		
+50			11.10	73.83	67.60	6.2
+70 M.H. ϕ 2K			10.0	74.9	69.00	5.9
31			7.1	77.8	72.11	5.7
T.P.	12.22	96.99	0.16	84.77		
+50			11.4	85.6	77.29	8.3
32			5.62	91.37	82.47	8.9
T.P.	12.44	108.63	0.80	96.19		
+50			12.7	95.9	87.65	8.3

		108.63				
3370	M.H. & Floude		9.8	98.8	92.83	6.0
+50			4.4	104.2	98.01	6.2
T.P.	12.15	120.46	0.32	108.31		
34			10.9	109.6	103.19	6.4
+50			5.1	115.4	108.37	7.0
T.P.	11.79	132.18	0.07	120.39		
35			11.85	120.33	113.55	6.8
+50			6.0	126.2	118.73	7.5
36			1.9	130.3	123.91	6.4
T.P.	12.25	144.10	0.33	131.85		
+30	M.H.		11.68	132.42	127.00	5.4
+50			9.9	134.2	128.15	6.1
37			3.99	140.11	131.03	9.1
T.P.	12.04	155.83	0.31	143.79		
+50			11.03	144.80	133.91	10.9
38			7.42	148.41	136.79	11.6
+50			5.2	150.6	139.67	10.9
39			3.30	152.53	142.55	10.0
+50			1.7	154.1	145.43	9.7
+60	M.H. & Guizot		1.11	154.72	146.00	9.7
	12.52	167.24				
40	40		8.8	158.4	150.26	8.1
+50			4.6	162.6	155.59	7.0
T.P.	12.33	179.46	0.11	167.13		

179.46

41+0			12.0	167.5	160.92	6.6
+10 break			10.94	168.52	162.00	6.5
+50			7.8	171.7	164.89	6.8
42			4.8	174.7	168.50	6.2
+50	12.33	190.37	1.42	178.04	172.11	5.9
+90 M.H.			9.52	180.85	175.00	5.8
43+0			9.1	181.3	175.44	5.9
+50			6.93	183.44	177.66	5.8
44			4.17	186.20	179.88	6.3
+50			1.53	188.84	182.10	6.7
+70 break 8.82	198.43		0.76	189.61	183.00	6.6
45+0			8.2	190.2	184.00	6.2
+50			6.11	192.32	185.56	6.8
46			6.4	192.0	187.33	4.7
+20 M.H. 524 to Barabara			^{5.68} 2.12	192.75	188.00	4.7
+50			4.6	193.8	189.75	4.0
T.P.	11.98	209.59	0.82	197.61		
47			8.29	201.30	192.74	8.6
+50			5.76	203.83	195.70	8.1
48			3.27	206.32	198.66	7.7
T.P.	12.25	219.98	18.6	207.73		

12

219.98

48+50			11.13	208.85	201.62	7.2
+90 M.H.			9.05	210.93	204.00	6.9
49			8.6	211.4	204.36	7.0
+50			5.76	214.22	206.14	8.1
50+0			3.58	216.40	207.93	8.5
+50	9.41	225.78	1.61	218.37	209.71	8.7
51+0			5.61	220.17	211.50	8.7
+50			4.92	221.36	213.28	8.1
+70 F.T.			4.33	221.45	214.00	7.5

13

sewer & Alley bet Niagara & Narragansett from
650' W of west Line Bacon to 30' west of west
Line of Venice

0+0 = 680 W of & Bacon	14.80
+50	13.57
1	12.64
+50	11.71
2	10.78
+15 = & Alley, ^{M.H. Break}	10.50
+50	10.09
3	9.50
+50	8.91
4	8.32
+50	7.73
5	7.14
+50	6.55
6	5.96
+50	5.36
+80 & Bacon M.H. ^{break}	5.00
7	5.30
+50	6.06
8	6.81

8+50	7.57
9	8.32
+50	9.08
10	9.83
+10 M.H.	10.00
+50	10.60
11	11.36
+50	12.11
12	12.87
+50	13.63
13	14.38
break +40 M.H. & Cable	15.00
+50	15.12
14	15.73
+50	16.33
15	16.94
+50	17.54
16	18.15
+50	18.75
+70 M.H.	19.00

15

6.0

17+0 19.36

+50 19.96

18 20.57

+50 21.17

19 21.78

+50 22.38

break
20+0 M.H. DeFoe 23.00

5.8

+50 23.91

21 24.82

+50 25.73

22 26.64

+50 27.55

23 28.46

+30 M.H. break 29.00

6.0

+50 29.70

24 31.44

+50 33.18

25 34.92

+50 36.66

+60 break 37.00

7.8

26+0	42.60	
+50	49.60	
break		
+60 M.H. & Ebers	51.00	12.00
+80 break	53.00	
27	57.50	
+50	68.75	8.7
28 break	80.00	
+50	88.00	
29+0 break	96.00	
+50	102.66	
+90 M.H. break	108.00	8.5
30	109.00	
+50	114.00	
31 break	119.00	
+50	125.50	
32+0 break	132.00	
+50	137.00	
33	142.00	
break		
+20 M.H. & Froude	144.00	13.7
+50	147.33	

34+0	152.89
+50	158.44
35+0 break	164.00
+50	167.03
36	170.06
+50 M.H. No break	173.09
37	176.12
+50	179.15
38	182.18
+30 break	184.00
+50	184.80
39	186.80
+50	188.80
+80 MHΦ Guizot	190.00
40+0	191.20
+50	194.20
+80 break	196.00
41	196.35
+50	197.22
42	198.09

9.5

9.7

9.0

8.7

42+50	198.96
43	199.23
+10 M.H. break	200.00
+50	200.36
44	200.81
+50	201.27
45	201.72
+50	202.17
46	202.63
break	
+40 M.H. E Santa Barbara	203.00
+50	203.04
47	203.25
+50	203.46
48	203.67
+50	203.88
49	204.08
+40 M.H. no break	204.25
+50	204.29
50+0	204.50
+50	204.71

6.7

4.5

5140

204.92

450

205.13

52

205.34

+40 F.T. 30' W of Mt. Venice

205.50

4.4

sewer & Alley bet Narragansett & Del Monte
from & North Alley BIK to East for 4920 to Ft.

21

0+0 = & Alley 60' w of & Bacon	28.00
+50	25.84
+75 m. H. & Alley south	24.76
1	23.67
+50	21.50
2	19.34
+50	17.17
3 m. H. break	15.00
+50	14.71
4	14.41
+50	14.123
5	13.82
+50	13.53
6	13.23
+40 m. H. ^{break} & Bacon	13.00
+50	13.06
7	13.36
+50	13.66
8	13.97

8.8

8+50	14.27
9	14.57
+50	14.87
+70 M.H. break	15.00
10	15.36
+50	15.97
11	16.57
+50	17.18
12	17.78
+50	18.39
13 to M.H. & Cable no break	19.00
+50	19.61
14	20.22
+50	20.82
15	21.43
+50	22.03
16	22.64
+30 M.H. no break	23.00
+50	23.74
17	23.85

4.8

6.0

17+50	24.95
18	25.06
+50	25.66
19	26.27
+50	26.87
break +60 M.H. & De Foc	27.00
20	28.26
+50	29.84
21	31.42
+50 break	33.00
22	35.50
+50	38.00
+90 M.H. break	40.00
23	40.61
+50	43.64
24	46.67
+50	49.70
25	52.73
+50	55.76
26	58.79

23

6.8

6.5

7.2

26 + 20 M.H. & Ebers

60.00

24
7.0

+50

62.83

27

67.55

+50

72.27

28 break

77.00

6.0

+50

81.00

29

85.00

break
+50 M.H.

89.00

5.7

30

92.85

+50

96.70

+80 break

99.00

6.4

31

101.80

+50

108.80

32

115.80

+50

122.80

+80 M.H. & Froode

127.00

6.4

33

129.33

+50

135.16

34

141.00

+50

146.83

34+60 break

148.00

25
6.0

35

154.57

+50

162.78

36

171.00

+20 M.H.

174.29

+50

179.22

37

187.43

+40 break

194.00

6.0

+50

194.45

38

196.70

+50

198.95

39

201.20

+40 M.H. ^{break} & Guizot

203.00

6.5

+50

203.33

40

205.00

+50

206.66

41

208.33

+50

209.99

42

211.66

+50

213.32

42	+70	no break M.H.	214.00
43			215.00
	+50		216.66
44			218.33
	+20	break	219.00
	+50		219.50
45			220.33
	+50		221.16
46	M.H.	Santa Barbara	222.00
	+50		222.47
47			222.94
	+50		223.41
48			223.88
	+50		224.35
49			224.82
	+20	F.T.	225.00

126
7.3

6.9

5.6

4.8

Sensor Φ Alley bet Del Monte & Santa Cruz
from 2nd Alley west of Bacon East for
See profile for dist from Bacon to Φ Alley

27

0+0	40.00
+40 M.H.	38.80
+50	38.50
1	37.00
+50	35.50
2 break	34.00
+50	27.50
3 break	21.00
+50	18.69
4	16.38
+30 M.H. Φ Bacon	15.00
+50	15.09
5	15.31
+50	15.54
6	15.76
+50	15.99
7	16.21
+50	16.44

7+60 M.H. ^{no break}

16.50

8

16.68

+50

16.91

9

17.13

+50

17.36

10

17.58

+50

17.81

+90 M.H. & Cable

18.00

11

18.27

+50

19.63

12

21.00

+50

22.36

13

23.72

+50

25.08

14

26.45

+20 M.H. break

27.00

+50

27.72

15

28.93

+50

30.14

16

31.35

16+50	32.56
17	33.78
+50 M.H. Φ De Foe	35.00
18	36.66
+40 break	38.00
+50	38.83
19	42.99
+50	47.16
20	51.32
+50	55.50
+80 M.H. break	58.00
21	59.54
+50	63.38
22	67.22
+10 break	68.00
+50	70.00
23	72.50
+50	75.00
24	77.50
+10 M.H. Φ Ebers break	78.00

24+50	81.15
25	85.09
+50	89.03
26	92.97
+50	96.94
27	100.88
+40 M.H.	104.00
+50	104.79
28	108.73
+50	112.67
29	116.61
+50	120.55
30	124.49
+50	128.43
^{break} +70 M.H. & Froude	130.00
31	133.00
+50	138.00
+60 break	139.00
32	144.78
+50 break	152.00

33

158.66

+50

165.32

34 M.H.

172.00

+50

179.00

35 BREAK

186.00

+50

188.22

+90 F.T.

190.00

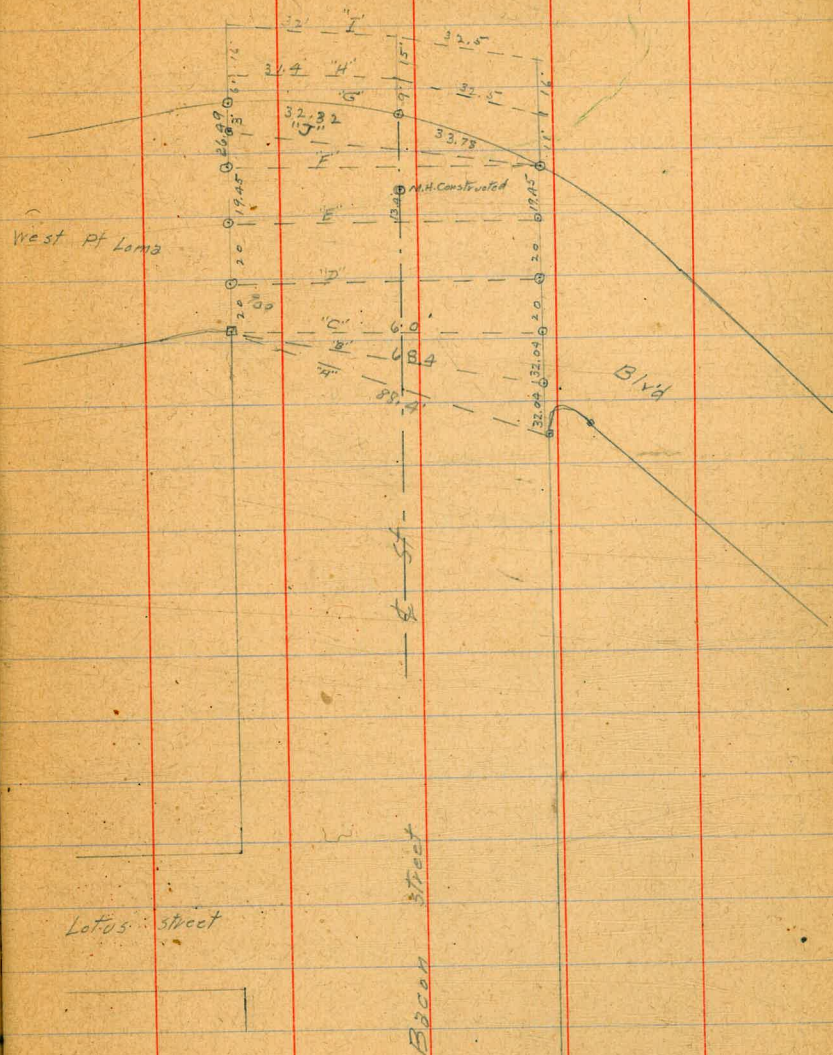
✓

33
33

Levels for proposed Septic Tank

1/27 Dunkle
1/19 Shaw
Sun Key

B.M.	2.93	12.45	2.52
T.P.	4.34	10.23	6.56
			5.89
X-sec "A"			
E		2.9	7.3
+1.4 = curb		3.2	7.0
+1.4 = gutter		4.0	6.2
+4.2 = ctr		3.7	6.5
+7.5 = gutter		4.3	5.9
+7.5 = curb		3.7	6.5
W		3.4	6.8
X-sec "B"			
W		3.4	6.8
+1.2 = curb		3.8	6.4
+1.2 = gutter		4.3	5.9
ctr		3.6	6.6
E		3.9	6.3
X-sec "C"			
E		3.5	6.7
ctr		3.7	6.5
+5.0 = gutter		4.6	5.6
+7.5 = curb		3.7	6.5
W		3.4	6.8



10.23

X-sec "D"

W	4.3	5.9
ctr	3.7	6.5
E	3.9	6.3

X-sec "E"

E	4.2	6.0
ctr	4.0	6.2
W	3.8	6.4

X-sec "F"

W	4.3	5.9
ctr	4.3	5.9
E	4.1	6.1

X-sec "J"

E	4.1	6.1
ctr	4.3	5.9
W	4.5	5.7

X-sec "G"

W	5.5	4.7
+T	5.0	5.2
ctr	4.3	5.9
E	4.1	6.1

10.23

X-sec "H"

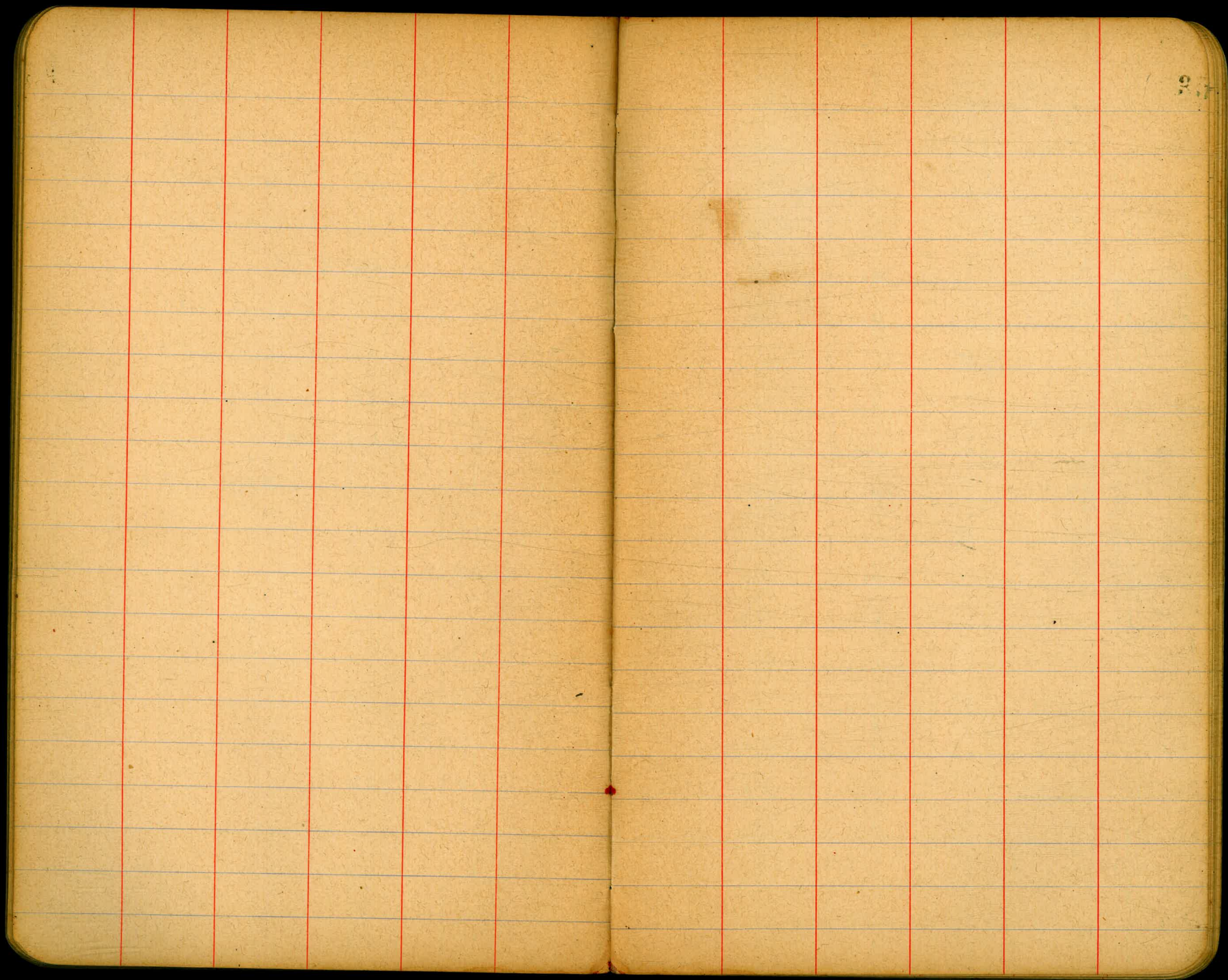
E	12.0	-1.8
ctr	12.0	-1.8
W	11.4	-1.2

X-sec "I"

W	13.3	-3.1
ctr	13.6	-3.4
E	13.6	-3.4

Top of M.H.

	4.5	5.7
--	-----	-----



x-sec. of portion of Lot 31 & part of Blvd where washed out ¹⁷ Duxie ₁₇ Shaw

B.M. B.P.S.W. Voltaine & Abbott 2, A.T.
 4.62 7.09
 T.P. 3.40 5.60 4.89 2.20

x-sec. "A" = graded st

w 4.0 1.6
 ctr 4.0 1.6
 E 4.0 1.6

"B"

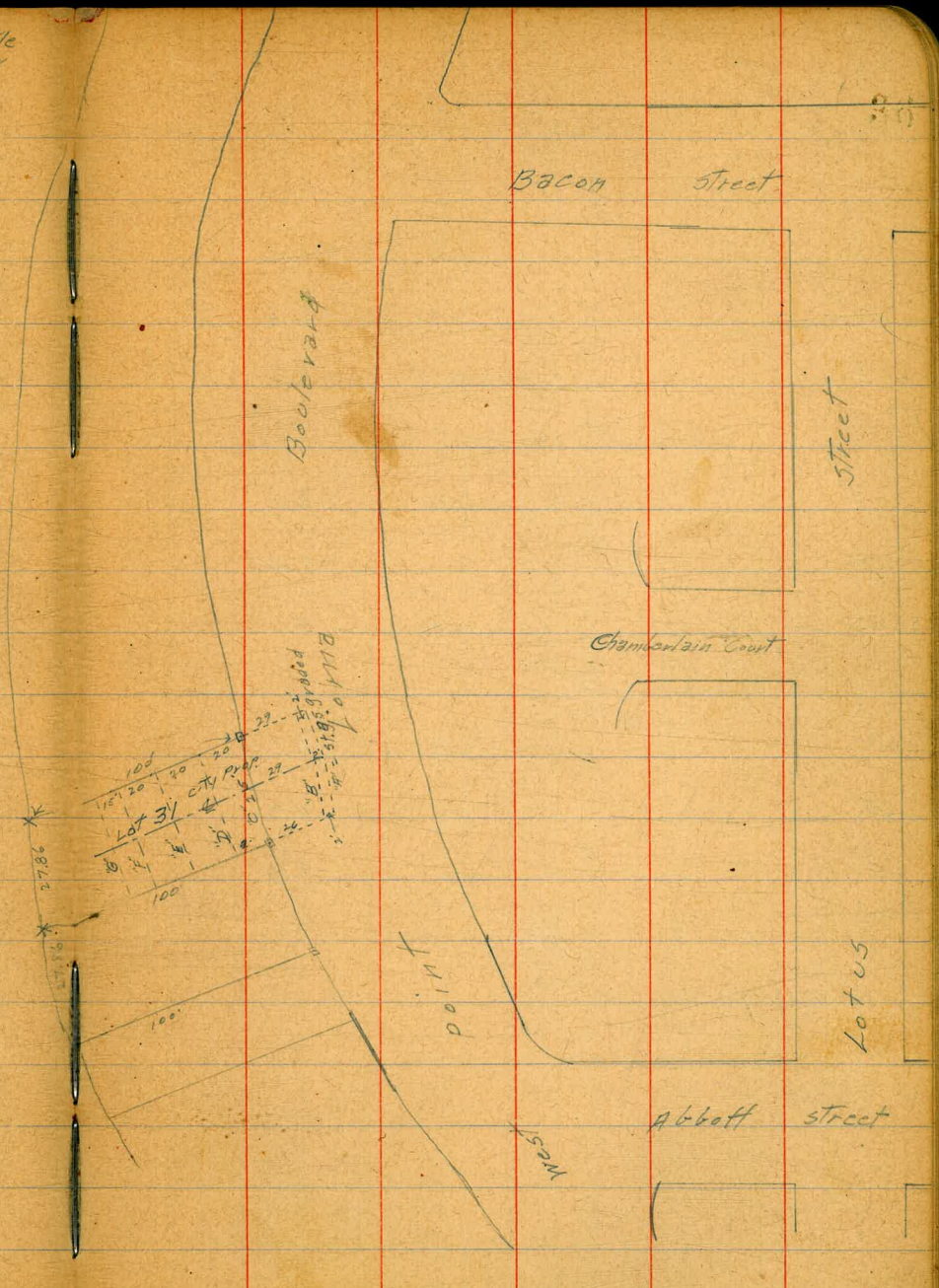
E 6.0 -0.4
 ctr 6.4 -0.8
 W 6.1 -0.5

"C"

w 10.2 -4.6
 ctr 10.3 -4.7
 E 10.2 -4.6

"D"

E 11.3 -5.7
 ctr 11.4 -5.8
 W 11.1 -5.5



5.60

1-sec. "E"

W	12.1	-6.5
df	12.2	-6.6
E	12.3	-6.7

"F"

E	13.7	-8.1
df	13.1	-7.5
W	12.8	-7.2

"G"

W	15.3	-9.7
df	15.9	-10.3
E	15.2	-9.6

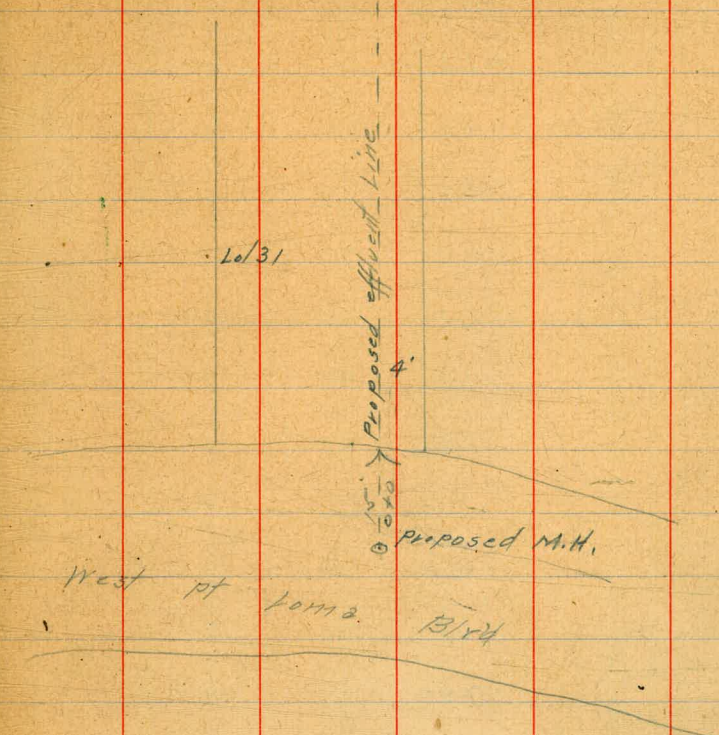
37

Levels for outfall sewer in Mission Bay from pt. 15'

S of S. L. Lot 31 and 4' W of E. L. Lot 31' North for.

2 1/2 Dunkle
1 1/2 Shaw
1 1/2 Bunker

93.M. S.W. Yaltaire & Abbott	4.42	6.89	2.47	
T.P.	4.74	+ 0.04	11.59	- 4.70
040			3.2	- 3.2
+17			5.2	- 5.2
+31			5.6	5.6
+41			6.1	6.1
+51			6.6	6.6
+61			6.9	6.9
water elev 1.00 P.M.			7.2	
+71			7.4	7.4
+81			8.5	8.5
+91	Soundings	2.6		9.8
101		3.8		11.0
+11		4.4		11.6
+21		5.0		12.2
+31		6.4		13.6
+41		5.8		13.0
+51		6.1		13.1
+61		7.2		14.4
+71		8.7		15.9



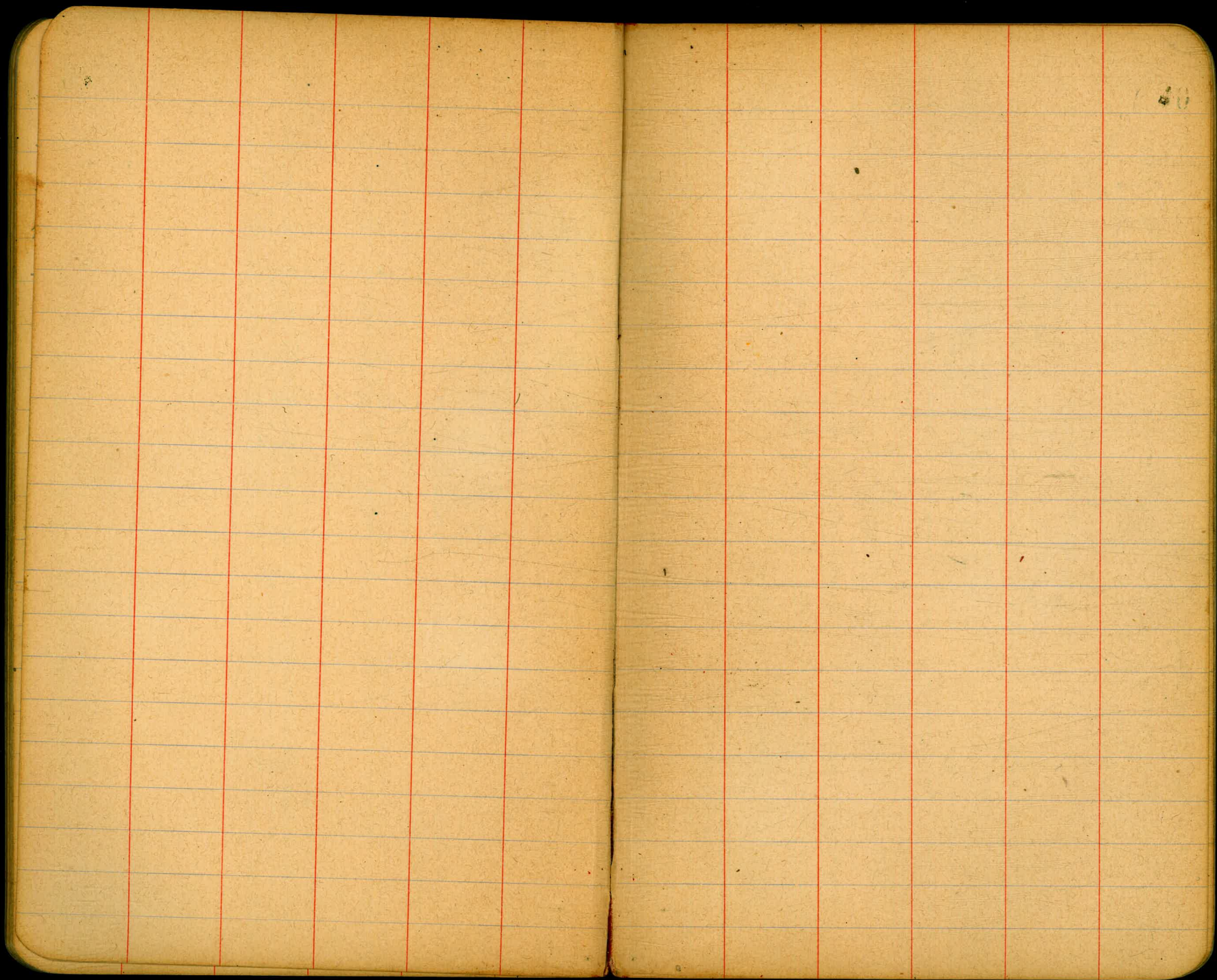
West pt corner 13/24

Proposed M.H.

+88	7.2	-14.8
+86	10.6	17.6
+91	13.0	20.0
201	14.0	21.0
+11	14.0	21.0
+21	14.3	21.2
+31	13.5	20.4
+41	10.5	17.4
+51	9.8	16.6
+61	7.2	14.0
+71	6.6	13.5
+81	6.9	13.8
+91	7.5	14.4
301	7.6	14.5
+11	7.6	14.4
+21	7.8	14.6
+31	8.0	14.8
+41	8.4	15.2
+51	9.4	16.2
+61	10.3	17.1
+71	11.0	17.7
+81	11.5	18.2
+91	12.1	18.8
101	13.6	20.3

+11	16.5	-23.2
+21	17.0	-23.7
+31	16.1	-22.5
+41	17.5	-23.8
+51	18.2	-24.5
+61	18.8	-25.1
+71	18.0	-24.3
+81	19.4	-25.7
+91	20.0	-26.4
5+01	20.5	-27.1
+11	19.5	-26.0
+41	22.1	-28.6
+61	21.3	-27.8

Water Elev. 3:30 P.M., 6.5



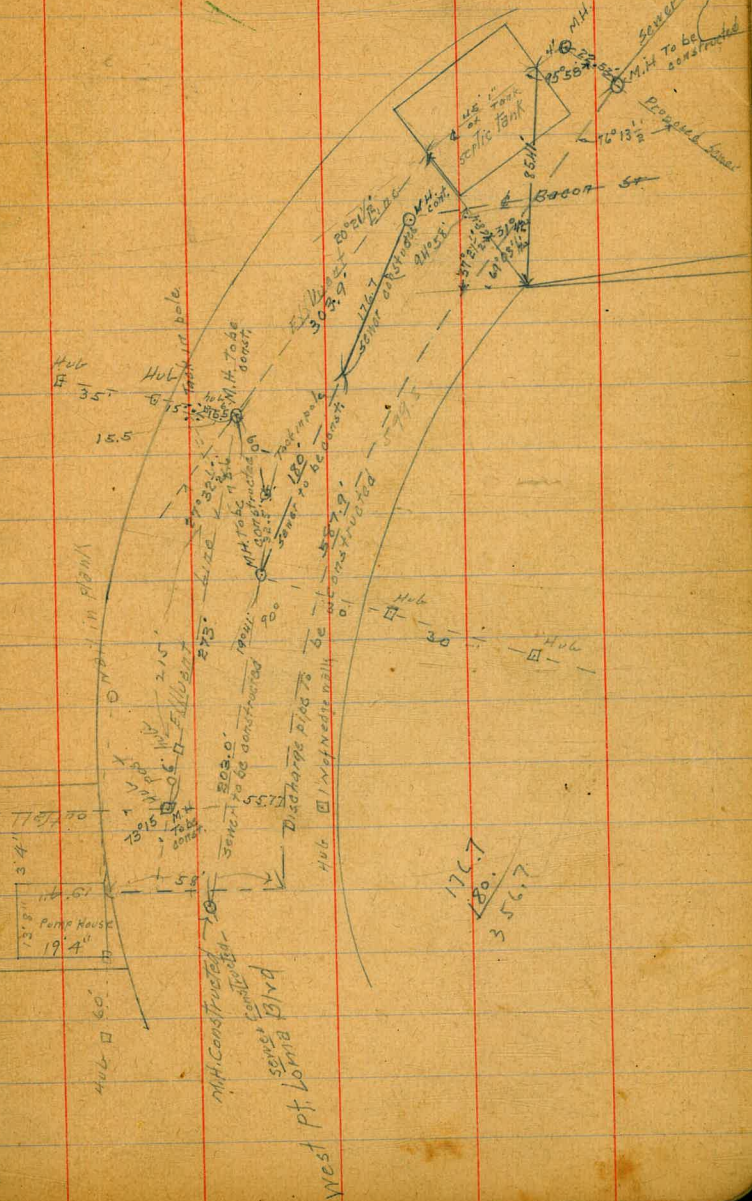
3/17/17
Sagor
Miller
Dunbar

Ties to proposed Septic Tank etc
Ocean Beach Sewers

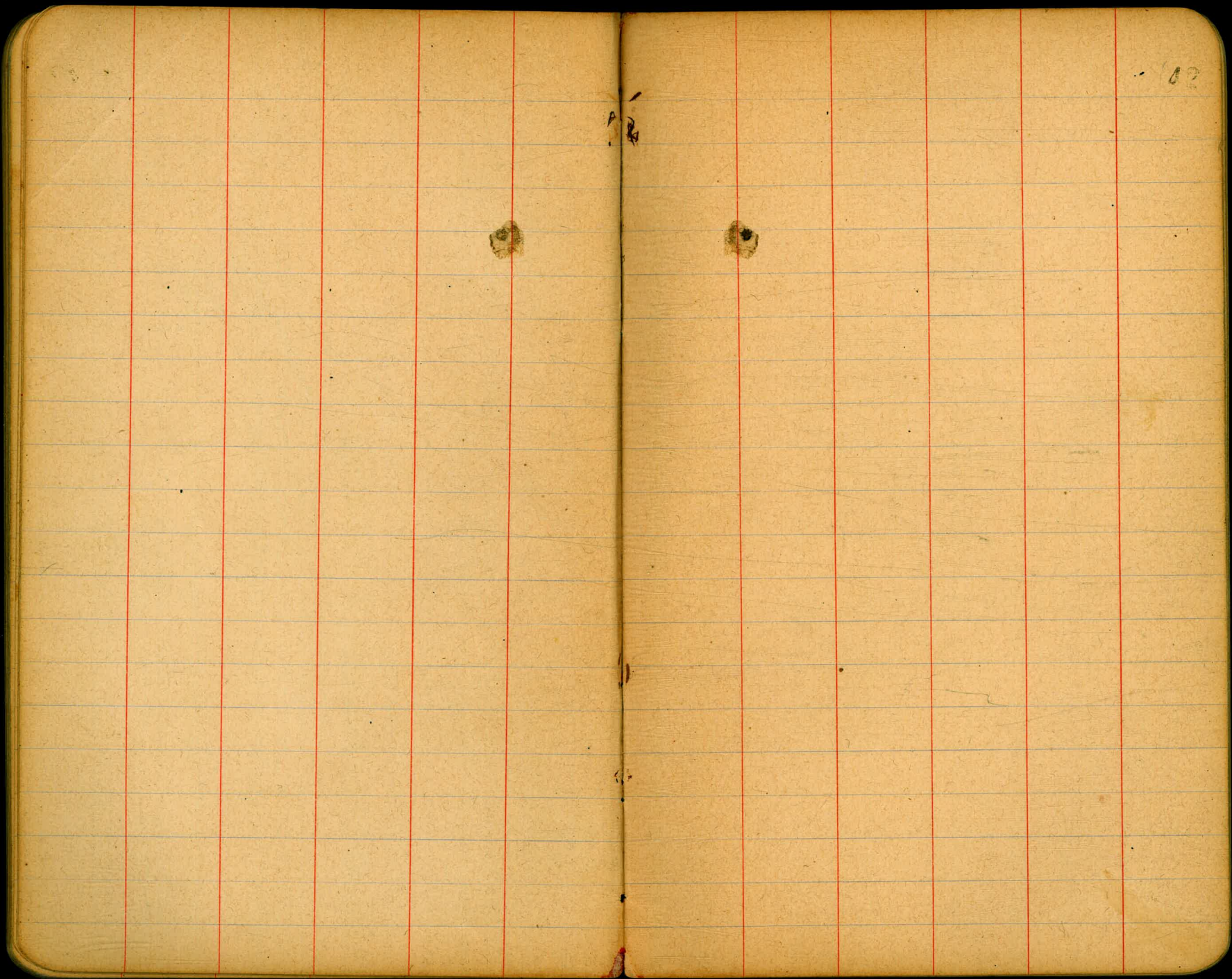
41

Note - for Tie outs see sheet 122 D

Lot B1
approximate position of bridge



17.7
18.0
35.7



102

102

Sever & Seaside AVE between Castellar & Greencly Dunkle
 5th set 2' E of CF, 1/2 Shan 17

B.M. N. W. Brass plg. Froude & Voltaire	44.54
T.P.	3.31
	46.38
	6.22
	43.07

at North Grade cut
 constructed

0+0 = M.H. Alley between Castellar & Larkspur

0+0 M.H. Drop	4.62	41.76	29.00 35.50	6.3 ✓
+50	4.15	42.23	35.97	6.3 ✓
1	3.65	42.73	36.44	6.3 ✓
+50	3.3	43.1	36.91	6.2 ✓
+60 D.E.	3.24	43.14	37.00	6.1 ✓

South

0+0 = M.H. Drop	4.62	41.76	29.00 34.00	7.8 ✓
+43 1/2 ft bottom			34.26	✓
+50	4.62	41.76	34.30	7.5
1	5.0	41.4	34.60 34.81	6.8 ✓
+35 bottom stk			34.81	✓
+50	5.17	41.21	34.90	6.3
2	5.2	41.2	35.20	6.0 ✓
+50	4.99	41.39	35.51	5.9 ✓
3	4.87	41.51	35.81	5.7 ✓
+30 = D.E.	4.70	41.68	36.00	5.7 ✓

42.23	45.48	45.48	45.48	45.48	45.48	44
3.25	35.00	35.97	36.44	36.91	37.00	
45.48 M.	9.98	9.51	9.04	8.57	8.10	
	✓	✓	✓	✓	✓	
45.48	45.48	45.48	45.48	45.48	45.48	
34.00	34.26	34.60	34.81	35.20	35.51	
11.48	11.22	10.88	10.67	10.28	9.97	
	✓	✓	✓	✓	✓	
45.48	45.48	45.48				
35.81	36.00					
9.67	9.48					
	✓	✓				

Sewer & Etiranda st from M.H. Sta 3+27.2
 Page 45 North for 162' to D.E.

Note - stakes set 2' W of & ditch

B.M.	4.31	44.71	40.40	30.30
0+0		5.7	37.0	31.50
+50		5.03	37.68	31.96
1		5.3	37.4	32.42
+50		6.1	38.6	32.89
+62 = D.E.		6.6	38.1	33.00

1/2 18 DUNKIE

39.68	43.26	43.26
3.58	31.76	31.50
43.26 M.	11.30	11.76

46

39.68	43.20	43.20	43.20
3.52	32.42	32.89	33.00
43.20 M.	10.78	10.31	10.20
8.7 ✓			
7.5 ✓			
7.7 ✓			
7.0 ✓			
5.7 ✓			
5.1 ✓			

Corner of Etowanda St from N.H. Sta 3+27²
 page 45 south to M.H. & Greene St

Stakes set 6' W of ϕ

B.M.	4.31	44.71		40.40		
0+0			5.7	39.0	30.30	8.7 ✓
+50			5.75	38.96	30.67	8.3 ✓
1			5.44	39.27	31.05	8.2 ✓
+50			5.57	39.14	31.42	7.7 ✓
2			5.3	39.4	31.80	7.6 ✓
+50			5.1	39.6	32.17	7.4 ✓
3			5.47	39.24	32.55	6.7 ✓
+50			5.61	39.10	32.92	6.2 ✓
4			5.44	39.27	33.30	6.0 ✓
+14	cut with				33.40	
+27 ⁵	M.H. & Greene		5.21	39.50	33.50	6.0
	7.51	47.01				

43.42	39.27	42.28	42.28	42.28	42.28	42.28	47
32.55	3.01	30.30	30.67	31.05	31.42	31.80	32.17
10.87	42.28 M.	11.98	11.61	11.23	10.76	10.48	10.11
31.00							42.28
30.30							32.55
7.5							9.73
39.10	43.42	43.42	43.42	43.42	43.42		
4.32	32.92	33.20	33.40	33.40	33.40		
43.42 M.	10.50	10.12	10.12	10.12	10.02		

Somer & Greene st from M.H. & Seaside
to M.H. & Bolinas

Stakes set 6' 5" of 4.

47.01

0+0=M.H. & Seaside Ave	5.42	41.59	36.00	5.6 ✓	
+50	6.20	40.81	35.38	5.4 ✓	
1	6.98	40.03	34.75	5.2 ✓	
+50	6.97	40.04	34.13	5.9 ✓	
break					
2+0=M.H. & Etivanda North	7.51	39.50	33.50	6.0 ✓	
+50	6.41	40.60	33.92	6.7 ✓	
break					
+60=M.H. & Etivanda South	6.1	40.9	34.00	6.9 ✓	
3	4.74	42.27	36.77	5.5 ✓	
+50	12.68	58.22	46.47	45.54 40.23	5.3 ✓
4	9.0	49.2	43.69	5.5 ✓	
+50	5.73	52.99	47.15	5.3 ✓	
5	12.70	70.11	0.81	57.41 50.61	6.8 ✓
+20=M.H. & Soto St South	11.66	58.45	52.00	53.00	6.5 ✓
+50	8.8	61.3	55.25	5.5 ✓	
6	5.42	64.69	59.00	6.0 ✓	
+40 break, 9.07	76.46	2.72	67.39	62.00	5.7 ✓
+50	8.37	68.09	62.43	5.4 ✓	
7	6.08	70.38	64.57	5.7 ✓	
+50	3.56	72.90	66.71	5.8 ✓	
+80=M.H. & Bolinas	3.18	73.28	68.00	6.2 ✓	
				5.3 ✓	

40.81
4.16
44.97M

40.60
4.29
44.89M

45.54
7.06
52.60M

57.41
5.86
63.27M

72.90
5.41
78.31M

44.97 44.97 44.97 44.97
36.00 35.38 34.75 34.13
8.97 9.59 10.22 10.84

44.89 44.89 44.89 44.89
33.50 33.92 34.00 36.77
11.39 10.97 10.89 8.12

52.60 52.60 52.60
40.23 43.69 47.15
12.37 8.91 5.75

63.27 63.27 63.27
50.61 52.00 55.25
12.66 11.27 8.02

72.31 73.31
66.71 68.00
11.60 10.31

48

69.69
6.43
171.12M
58.00
12.12

71.12 71.12
62.00 62.43
9.12 8.69

71.12
64.57
6.55

Sewer @ Seaside Ave from M.H. & Greene St
 South to M.H. 15' N of S.L. Voltaire

Stakes set 6' west of ϕ + R H.I.	- R	Elev	grade	cut
B.M. Brass plg N.W. Voltaire & Froide 8.72 53.26		44.54		
+0 = M.H. & Greene	11.67	41.57	36.00	5.6 ✓
+50	11.2	42.1	36.35	5.8 ✓
1	11.2	42.1	36.71	5.4 ✓
+50	10.9	42.4	37.06	5.3 ✓
2	10.73	42.53	37.42	5.1 ✓
+50	10.35	42.91	37.78	5.1 ✓
+80 M.H. Break	9.8	43.5	38.00	5.5 ✓
3	9.37	43.87	38.22	5.7 ✓
+50	9.2	44.1	38.76	5.3 ✓
4	8.2	45.1	39.31	5.8 ✓
+50	6.67	46.59	39.85	6.7 ✓
5	5.1	48.2	40.90	7.8 ✓
+235' Cut M.H.			40.66	✓
+50	4.6	48.7	40.94	7.8
+55 = M.H. 15' N of S.L. Voltaire	4.4	48.9	41.00	7.9

42.53 4.03 47.16 M.H.	47.16 36.35 10.81	47.16 36.71 10.45	47.16 37.00 10.10	47.16 37.42 9.74	
	✓	✓	✓	✓	
42.71					
43.87 4.00 48.47 M.H.	48.47 37.78 10.69	48.47 38.00 10.47	48.47 38.22 10.25	48.47 38.76 9.71	
	✓	✓	✓	✓	
46.59 5.27 51.86 M.H.	51.86 37.31 12.55	51.86 39.85 12.01	51.86 40.40 11.46	51.86 40.66 11.20	
	✓	✓			
42.53 4.15 46.68 M.H.	46.68 36.00 10.68				

Somer Voltaire St Located 15' N. of S.L.
 stakes set 2' N of Φ ditch

B.M.					
	8.72	53.26	44.54	94.26	
	West from Φ Seaside Ave				
0+0 = M.H. Φ Seaside		4.4	48.9	41.00	
+50		5.6	47.7	41.50	
1 D.F.		6.3	47.0	42.00	
	East from M.H. Φ Seaside Ave				
0+0 = M.H. Φ Seaside Ave		4.4	48.9	41.00	
+50		2.7	50.6	45.36	
1	12.33	65.44	0.15	53.11	47.72
+50		9.34	56.10	50.08	
+80 Break		7.50	57.94	54.50	
2		6.2	59.2	52.75	
+50		3.09	62.35	55.87	
3	12.55	77.97	0.02	65.42	59.00
+50		9.62	68.35	62.12	
+96 M.H. Φ Guizot St		6.93	71.04	65.00	
4		6.78	71.19	65.22	
+50		3.99	73.98	67.93	
5	12.85	89.63	1.19	76.78	70.64
+50		10.18	79.45	73.35	
6		7.64	81.99	76.06	
+36 F.T.		6.49	83.14	78.00	

	71.19	78.14	73.14	73.14	
	6.95	65.00	70.64	73.35	
	73.14	13.14	7.50	4.79	
	73.14	✓	78.14	86.22	86.22
	81.99		67.93	76.06	73.00
	4.73		10.21	10.16	8.22
	86.22	✓	✓	✓	8.22
	62.35	69.36	69.36	69.36	
	7.03	62.12	59.00	59.00	
	69.36	7.24	10.36	13.29	
	62.35	62.47	62.47	62.47	62.47
	0.12	55.87	52.75	51.50	50.08
	62.47	6.60	9.72	10.97	12.39
		✓	✓	✓	✓
	53.11	54.66	54.66	54.66	
	1.55	47.72	45.36	41.00	
	54.66	6.94	7.30	11.66	
		✓	✓	✓	
	44.54	52.31	52.31	52.31	
	7.77	41.00	41.50	42.00	
	52.31	11.31	10.81	10.31	
	62.35	64.57			
	2.22	54.03			
	64.57	10.54			
		✓			
	5.9				
	5.1				

Sewer & Etowanda St from M.H. & Greene
 South for 478 to D.E

Stakes set 6' W of &

B.M.	9.57	51.84		42.27		
0+0 = M.H. & Greene St				34.00	6.9 ✓	
+50		12.00	39.84	35.52	4.3 ✓	
1		10.41	41.43	37.04	4.4 ✓	
+50		8.76	43.08	38.56	4.5 ✓	
2		6.98	44.86	40.09	4.8 ✓	
+30 M.H. Creek		5.9	45.9	41.00	4.9 ✓	
+50		4.93	46.91	41.88	5.0 ✓	
3	11.61	61.83	1.62	50.22	44.10	6.1 ✓
+50		9.23	52.60	46.32	6.3 ✓	
4		5.98	55.85	48.54	7.3 ✓	
+50		3.18	58.65	50.76	7.9 ✓	
+78 = D.E.		2.04	59.79	52.00	7.8 ✓	

41.43	47.71	47.71	47.71	47.71	47.71	
6.28	35.52	37.04	38.56	40.09	41.00	51
47.71 M.	12.19	10.67	9.15	7.62	6.71	47.71
	✓	✓	✓	✓	✓	41.88
						5.83
	47.71					
	44.10					
	3.61					
52.60	✓					
6.41	59.01	58.01	59.01	59.01	59.01	
	46.32	48.54	50.76	52.00		
59.01 M.	12.69	10.47	8.25	7.01		
	✓	✓	✓	✓		
59.79						
9.48						
64.27 M.						
52.00						
12.27						

Borer & 50th St from M.H. & Greene St
South for 475' to D.E.

Stakes out 6' west of &

grade cut

13.M.	12.18	69.59		57.91		
040 = M.H. & Greene					Prof.	53.00
						52.00
+50			9.61	59.98	54.50	6.5 ✓
1			6.29	63.20	57.00	6.3 ✓
+50			3.78	65.81	59.50	6.3 ✓
2	11.24	79.51	1.32	68.27	62.00	6.3 ✓
+30 M.H. break			9.9	69.6	63.50	6.1 ✓
+50			9.2	70.3	64.11	6.2 ✓
3			7.47	72.04	65.64	6.4 ✓
+50			6.49	73.02	67.17	5.8 ✓
4			5.13	74.38	68.70	5.7 ✓
+50			3.70	75.81	70.23	5.6 ✓
+75 D.E.			2.88	76.63	71.00	5.6 ✓

63.30
3.91
67.21 67.21 67.21 67.21
54.50 57.00 59.50 62.00
67.21 10.21 7.71 5.21

52

72.04 74.28 74.28 74.28 74.28 74.28 74.28
2.24 62.00 3.50 64.11 65.64 67.17 68.70
74.28 12.28 10.78 10.17 8.64 7.11 5.58
75.81 79.95 79.95
4.14 70.23 71.00
79.95 9.72 8.95

11.50
12.00
12.50

Sewer & Bolinas st from M.H. & Greene st Dunkle
 south for 475' to F.T.
 Stakes set 6' r of &

B.M.			73.28	grade	CUT
0+0 = M.H. & Greene st	12.72	86.00	73.28	68.00	5.3 V
+50	12.01		73.99	69.05	4.9 V
1	10.51		75.49	70.10	5.4 V
+50	9.15		76.85	71.15	5.7 V
2	7.99		78.01	72.21	5.8 V
+50	6.55		79.45	73.26	6.2 V
3	5.30		80.70	74.31	6.4 V
+50	3.95		82.05	75.36	6.7 V
4	2.69		83.31	76.42	6.9 V
+50	1.30		84.70	77.47	7.2 V
+75 = F.T.	0.74		85.26	78.00	7.3 V

59

75.31 M1	78.31	78.31			
	69.05	70.10			
	9.26	8.21			
	✓	✓			
76.85	84.12	84.12	84.12	84.12	84.12
7.27	71.15	72.21	73.26	74.31	75.36
84.12 M1	12.97	11.91	10.86	9.81	8.76
	✓	✓	✓	✓	✓
84.70	88.47	88.47	88.47	88.47	88.47
3.77	77.47	77.47	78.00	78.00	78.00
88.47 M1	11.00		10.47		
	✓		✓		

Corner of Muir Ave from M.H. & Frode St
 East for 883 to F.T.
 stakes set 6' to south of &
 B.M. brass plg Yaltaire & Frode

			44.54	grade		
0+0 = M.H. & Frode	9.09	53.63	6.02	47.61	42.66	
+50			5.04	48.59	43.54	
1			4.10	49.53	44.42	
+50			3.28	50.40	45.30	
2			2.25	51.38	46.18	
+50	11.66	64.24	1.05	52.58	47.06	
3			10.62	53.62	47.94	
+50			9.2	55.0	48.82	
+60 M.H. break			8.5	55.7	49.00	
4			6.27	57.97	52.20	
+50			2.72	61.52	56.20	
T.P.	12.59	76.26	0.57	63.67		
5			10.60	65.66	60.20	
+50			5.97	70.39	64.20	
6	12.16	87.81	0.61	75.65	68.20	
+31 bot stix					70.68	
+50			9.93	77.88	72.20	
+54 M.H. & Guizot St break			9.9	77.9	72.50	
7			2.97	84.84	77.42	
T.P.	12.23	99.73	0.31	87.50		
+50			10.33	89.40	82.75	
8	11.86	106.42	5.17	94.56	88.10	
+50			6.26	100.16	93.45	
+83 F.T.			2.11	104.31	97.00	

48.59	54.08	54.08	54.08	54.08	54.08	54.08	54.08	54.08	54.08	54.08	54.08	54.08	54.08
5.49	42.66	43.54	44.42	45.30	46.18	47.06	47.94	48.82	49.70	50.58	51.46	52.34	53.22
54.08 M	11.2	10.54	9.66	8.98	7.90	7.02	6.14	5.26	4.38	3.50	2.62	1.74	0.86
	57.97				57.97								
	9.40				3.96				61.93	61.93	61.93	61.93	61.93
	62.37 M	62.37			61.93 M	48.92	49.00	52.20	56.20				
		13.65				13.11	12.93	9.73	5.73				
	45.66				72.59	72.59	72.59	75.65	80.80				
	6.93				60.20	64.20	68.20	5.15	6.20				
	72.59 M				12.39	8.39	7.39		12.60				
								80.50 M	10.10				
	80.80				80.80								
	70.65				72.50								
	10.12				8.30								
	84.84				80.37	90.39	94.56	100.88	100.88	100.88	100.88	100.88	100.88
	5.55				77.92	82.75	6.32	88.10	93.45	97.00			
	90.39 M				12.97	7.64	100.88 M	12.78	7.43	3.88			
	104.31				106.07								
	1.76				97.00								
	106.07 M				9.07								

Sewer & Alley between Muir & Long Branch,
from end of existing sewer (which is 158' East of Gutzot)
East for 53' to F.T.

stakes set 6" N of &

115.67

0 to end of existing sewer	12.14	103.53	98.14
+45	5.88	109.79	104.57
+83	1.26	114.91	110.00

sewer & Froode at from M.H. & Muir North for 52.5' to
end of existing sewer

B.M.	7.69	55.30	47.61
0 to M.H. & Muir	7.69	47.61	42.66
0 + 25	7.94	47.36	42.35
0 + 52.5 end of existing sewer	7.93	47.37	42.00

Sewer & Froode from M.H. (constructed) & Alley bet Muir & Long Branch
south for 200' to D.E

B.M.	2.42	60.62	58.20
0 to M.H. constructed	12.42	48.20	42.00
150	11.24	49.38	43.50
1	10.18	50.44	45.00
150	8.74	51.88	46.50
2 = D.E	7.54	53.08	48.00
sewer & Froode at from M.H. & Alley bet Long Branch & Brighton south for 80' to D.E 60.62			
0 to M.H.	5.0	55.6	50.00
+50	3.08	57.54	51.87
+80 D.E	1.94	58.68	53.00

55

114.41
7.51
115.92 M

50.94
4.77
55.21

115.92
110.00
59.2
115.92 M

55.21 55.21 55.21 55.21
43.50 45.00 46.50 48.00
11.71 10.21 8.71 7.21

5.4

57.54
3.24
60.78 M

5.2 ✓

4.4 ✓

5.0

5.0

5.4

6.2

5.9 ✓

5.4 ✓

5.4 ✓

5.1 ✓

5.6

5.7 ✓

5.7 ✓

Sewer & Alley between Long Branch & Brighton
from end of existing sewer (which is 45' east of F. Floods)
east for 847 to F.T. - stakes 6' N of F.

B.M.	7.69	55.30		47.61	
T.P.		65.98	0.87	54.43	
Cont'd fr: 950-411.55					
0+0 = end of existing sewer			7.78	58.20	51.50
+0.5			7.20	58.98	51.66
+5.5			6.42	59.56	53.33
1+0.5					
+35 Break			4.75	61.23	54.99
2+5			3.77	62.11	56.00
			3.35	62.63	57.27
2+0.5	12.67	77.75	0.90	65.08	59.73
+5.5			8.8	69.0	62.40
+25 M.H. Break			6.35	71.40	64.00
3+0.5			5.83	71.92	65.86
+5.5	12.69	89.83	0.61	77.14	70.52
4+0.5			5.92	83.85	75.18
+5.5	12.30	100.37	1.76	88.07	79.84
5+0.5			7.6	92.8	84.50
+5.0			4.52	95.85	88.69
6			3.52	96.85	93.35
407 M.H. & Guizot Break			2.83	97.54	94.00
T.P.	12.71	111.99	1.09	99.28	
+5.0			11.01	100.93	97.44
7					
1+5 Break			6.96	105.03	101.44
			2.63	109.36	105.00
+5.0	12.62	123.36	1.25	110.74	105.54
8					
			7.45	115.91	110.93
+47 F.T.			1.96	121.40	116.00

42.0	97.54	106.99	106.99	106.99	106.99
	9.45	99.06	97.49	101.44	105.00
	106.99 M.	12.99	9.55	5.55	1.99
6.7	1.59				
7.3	5.89	21.80	21.80		
6.2 ✓	121.80 M.	10.93	16.00		
		10.87	5.80		
6.2 ✓	88.07				
6.2 ✓	6.93	95.00	95.00	88.07	
5.6 ✓	95.00 M.	88.69	84.52	1.48	
	1.29	6.31	10.50	89.55 M.	
	92.74			79.84	
5.3 ✓				9.71	
	77.14				
6.6 ✓	5.73	82.87	82.87		
	82.87 M.	75.18	70.52		
		7.69	12.35		
7.4 ✓	7.92				
	2.92	74.84	74.84	74.84	
6.1 ✓	74.84 M.	65.86	64.00	62.40	
		8.98	10.84	12.44	
6.6 ✓					
8.7 ✓	5.26	61.23	65.02	65.02	65.02
		3.79	53.33	54.99	56.00
8.2 ✓		65.02 M.			57.07
8.3 ✓		5.93	11.69	12.03	9.02
7.2 ✓		7.54			7.95
	65.08	70.33	70.33		
	5.25	57.73	62.40		
3.5	70.33 M.	10.60	7.93		
3.5 ✓					
3.5 ✓					
3.6 ✓					
4.4 ✓					
5.2					
5.0 ✓					
5.4 ✓					

Sewer & Alley between Long Branch & Brighton from
end of existing sewer (which is 170' W of Φ Cable) East
for 110' To D.E

B.M. s.w. brass plg Cable De Foe
4.37 21.38

T.P. 6.63 21.82 6.19 15.19
Cont'd. from 950-42

0+0 = end of existing sewer 8.40 13.42 4.70 8.7

+50 6.74 15.08 5.38 9.7 ✓

1 4.35 15.47 6.06 9.4 ✓

+10 = D.E. 6.13 15.69 6.18 9.5 ✓

5 STAKES 6' N of Φ

Sewer & Alley between Long Branch & Brighton from M.H. Φ of
Cable to M.H. Φ De Foe Cont'd from 950-42
21.82

0+0 = M.H. Φ Cable 6.63 15.19 8.00 7.2 ✓

+50 5.14 16.68 9.21 7.5 ✓

+90 5.50 16.32 10.18 6.1 ✓

1+50 3.98 17.84 11.62 6.2 ✓

2 2.70 19.12 12.84 6.3 ✓

+50 9.17 29.90 1.09 20.73 14.05 6.7 ✓

3 6.75 23.12 15.26 7.9 ✓

+30 M.H. Φ De Foe 7.56 22.34 16.00 6.3 ✓

+50 7.63 22.27 16.30 6.0 ✓

4 6.16 23.74 17.05 6.7 ✓

+50 5.61 24.29 17.81 6.5 ✓

5 4.52 25.38 18.56 6.8 ✓

+50 4.61 25.29 19.31 6.0 ✓

6 3.26 26.64 20.07 6.6 ✓

+50 3.46 26.44 20.83 5.6 ✓

+60 = M.H. Φ De Foe 3.12 26.78 21.00 5.8 ✓

26.78 29.50 29.50 29.50 29.50 29.50
2.72 21.00 20.83 20.07 19.31 18.56 17.81
29.50 M. 3.50 8.67 9.43 10.19 10.94 11.69
✓ ✓ ✓ ✓ ✓ ✓

22.34 26.68 26.68 26.68
4.34 16.00 16.30 17.05
26.68 M. 10.48 10.38 9.63
✓ ✓ ✓

20.73 21.96 21.96 21.96 21.96 21.96 21.50
1.23 15.26 14.05 12.84 11.62 10.18 9.21
21.96 M. 6.70 7.91 9.12 10.34 11.73 12.75
✓ ✓ ✓ ✓ ✓ ✓

15.19 } ~~7.25~~
4.41 } 15.08 18.15 18.15 18.15
19.60 } 3.07 5.38 6.06 6.18
2.00 } 18.15 M. 12.77 12.09 11.97
11.60 } ✓

Survey Alley between Brighton & Cape May from
 N.H. 15' w of Bacon East for 615 to D.E.
 stakes set 6' S of Alley

	B.M. N.M. crass. plg. Bacon & Brighton	9.11	13.64	4.53		
0+0 = N.H. Bacon at 15' w of Alley	8.63	5.01	-0.50			
0+26	5.39	12.92	-0.21			
+50		6.45	7.19	+0.05		
		5.80	7.12			
1		6.74	6.90	+0.61		
		6.08	6.84			
+50		5.95	7.69	1.16		
		5.28	7.64			
2		5.04	8.60	1.72		
		4.35	8.57			
+50		3.99	9.65	2.27		
		3.37	9.55			
3		4.04	9.60	2.83		
		3.41	9.50			
+15 M.H. Break		3.84	9.80	3.00		
+50		3.29	10.35	3.41		
4		2.27	11.37	3.99		
+50	9.65	21.24	2.05	11.59	4.57	
5		8.70	12.54	5.15		
+50		8.09	13.15	5.73		
6		6.95	14.29	6.31		
+15 D.E.		6.37	14.37	6.50		

cut

5.5 ✓

7.1 ✓
7.07

6.3
6.23

6.5
6.48

6.9
6.85

7.4
7.28

6.8
6.67

6.8 ✓

6.9 ✓

7.4 ✓

7.0 ✓

7.4 ✓

7.4 ✓

8.0 ✓

7.9 ✓

10.55 AM

10.55 10.55

0.05 0.21

10.50 10.76

✓ ✓

7.50

5.3

14.93

11.37

5.17

16.54 AM

12.54

4.95

17.49 AM

14.37

3.44

17.81 AM

14.21 14.93

3.00 3.21

11.93 11.52

16.54 16.54

3.99 4.57

12.55 11.97

✓ ✓

17.49 17.49

5.15 5.73

12.34 11.76

✓ ✓

17.81 17.81

6.31 6.50

11.50 11.31

✓ ✓

58

Sewer & Alley between Brighton & Cape May from M.H. &
 Cable East for 32.30' to M.H. & Alley B/K 91 Pt. Loma Heights
 stakes set 6' south of &

	21.24				
040 = M.H. & Cable Street	7.35	13.89	9.50	4.4 ✓	
+50	6.23	15.01	10.03	5.0 ✓	
1	4.81	16.43	10.56	5.9 ✓	
+50	4.73	16.51	11.09	5.4 ✓	
2	4.18	17.06	11.62	5.4 ✓	
+50	3.64	17.60	12.15	5.4 ✓	
3	2.55	18.69	12.69	6.0 ✓	
+30 M.H. Break	2.00	19.24	13.00	6.2 ✓	
+50	11.66	31.26	16.64	19.60	13.96
4	10.52	20.74	14.48	6.3 ✓	
+50	9.34	21.92	15.54	6.4 ✓	
5	7.88	23.38	16.60	6.8 ✓	
+50	7.44	23.82	17.66	6.2 ✓	
6	5.48	25.78	18.72	7.1 ✓	
+50	6.94	24.32	19.78	4.5 ✓	
+60 = M.H. & De Foe break	6.49	24.77	20.00	4.8 ✓	
7	4.12	27.14	20.30	6.8 ✓	
+50	4.51	26.75	20.68	6.1 ✓	
8	3.87	27.39	21.06	6.3	

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17.60
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9.41

27.37
4.87
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32.21
21.06
11.15

17+50			7.02	56.09	49.14	7.0
18	12.67	72.61	3.17	59.94	51.71	8.2
+50			2.86	63.75	54.28	9.5
19			5.29	67.32	56.86	10.5
+50			3.07	69.54	59.44	10.1
+80 M.H. & Froude break	12.28	83.26	1.63	70.98	61.00	10.00
20			11.17	72.09	62.27	9.8
+50			10.82	72.44	65.45	7.0
21	12.33	91.84	3.75	79.51	68.63	10.9
+50			8.21	83.63	71.81	11.8
22			7.21	84.63	75.00	9.6
+50			4.63	87.21	78.18	9.0
23	12.31	102.22	1.93	89.91	81.36	8.6
+10 M.H. break			11.68	90.54	82.00	8.5
+50			10.00	92.22	84.67	7.6
24			6.83	95.39	88.00	7.4
+50			2.99	99.23	91.33	7.9
+60 break	12.98	112.58	2.62	99.60	92.00	7.6
25 to			9.07	103.51	96.44	7.1
+25			6.13	106.45	99.22	7.2
+75	11.93	123.55	0.96	111.62		
+50			9.58	113.97	103.00	12.0

cut

6.95

8.23

9.47

10.46

10.10

9.98

9.82

6.99

10.88

11.82

9.63

9.03

8.55

8.54

7.55

7.39

7.90

7.60

7.56

7.07

7.23

11.97

✓ pipe to here

121.93 MI.

8.52
 113.41
 102.00
 11.41

121.93
 12.71
 109.02
 1.33
 110.25 MI.

110.35 110.35
 6.76 10.79
 103.39 99.56
 26.42
 6.95

110.35 110.35
 11.28
 99.07
 91.33
 7.74

New cuts

7.74

6.95

11.41 New cut

26		123.55	7.21	116.34	107.55	8.8		CUT	8.79
+ 40 M.H. & Guizot break			6.67	116.88	112.00	4.9			4.88
+ 50			6.77	116.78	113.10	3.7			3.68
T.P.	11.96	134.97	0.54	123.01					
27			8.24	126.73	118.60	8.1			8.13
+ 50			3.28	131.69	124.10	7.6			7.59
T.P.	12.39	147.10	0.26	134.71					7.44
28			7.47	139.63	129.60	10.0			10.03
+ 40 M.H. break			3.19	143.91	134.00	9.9			9.91
+ 50	9.74	154.38	2.46	144.64	134.15	10.5			10.49
29			6.97	147.41	134.92	12.5			12.49
+ 50			5.28	149.10	135.69	13.4			13.28
30			4.97	149.41	136.46	13.0			12.95
+ 50			4.80	149.58	137.23	12.4			12.35
31			4.71	149.67	138.00	11.7			11.67
+ 50	5.68	156.47	3.59	150.79	138.77	12.0			12.07
32			5.82	150.65	138.54	11.1			11.11
+ 20 M.H. & Alley 61K 91	Hub set E, both ways		5.48	150.99	140.00	11.0			10.99

49.27	154.38								62
	3.84								
	150.54								
150.79	3110	30450	30						
1.57	152.36	152.36	152.36						
152.36	2.85	2.23	3.09						
	149.51	47.23	49.77						
	38.00	37.23	36.46						
	11.51	11.90	12.81						
29+50	2910	28450	28140	28110					
152.36	152.36	152.36	152.36	152.36					
3.39	5.25	7.33	8.55	12.73					
48.97	47.31	44.53	43.81	39.63					
35.69	34.92	34.15	34.00	29.60					
13.22	12.39	10.89	7.81	10.03					
	152.36								
	1.72								
	150.64								
	9.71								
	149.41	53.49	53.49	53.49					
10.16	4.08	6.21	9.04	9.64					
153.49	47.28	44.45	43.84						
	34.92	34.15	34.00	29.60					
12.22	12.36	10.30							
1.26									
									0.73
	116.88	127.05							
	10.20	0.73							
	127.08	126.35							
		13.60							
		7.75							
	132.63								
	4.21								
	143.44								
	12.20								
	131.54								
	24.10								
	7.44								
	116.88	121.90							
	5.05	5.55							
	121.93	116.35							

sewer ϕ of North & South Alley BIK 91 Point Loma
 Heights
 States set 6" w of ϕ .

B.M.						Cut
	156.47					
	North					
			D_1 140.00	11.0	10.99	
0+0 = M.H. ϕ E. & W. Alley	5.48	150.99	D_2 141.00	10.0	9.99	
+50	7.36	149.11	141.40	7.7	7.71	
1	9.18	147.29	141.80	5.5	5.49	
+25 D.E.	9.70	146.77	142.00	4.8	4.77	

	South					
			D_1 140.00	11.0	10.99	
0+0 = M.H. ϕ E. & W. Alley	5.48	150.99	D_2 145.00	6.0	5.99	
+50	8.02	162.33	2.16	154.31	147.40	6.9
1	5.65	156.65	149.80	6.9	6.85	
+25 F.T.	5.02	157.31	151.00	6.3	6.31	

Service & Alley between Cape May & Saratoga from
 N.H. & Bacon St East for 4140 to F.T.
 Stations set 6 to N of E

	B.M. N.W. Bacon & Brighton	Grass Pig	4.53					
T.P.	6.65	11.18	4.13	7.05	3.52	3.5	3.53	
oto N.H. & Bacon	9.58	16.63	9.58	7.05	3.75	3.3	3.30	
+50			6.20	10.43	4.01	6.4	6.42	
1			5.43	11.20	4.28	6.9	6.92	
+50			5.42	11.21	4.54	6.7	6.67	
2			5.27	11.36	4.81	6.6	6.55	
+50			5.09	11.54	5.07	6.5	6.47	
3			4.37	12.26	5.34	6.9	6.92	
+30 N.H. Break			6.37	10.26	5.50	4.8	4.76	
+50			4.42	12.21	5.65	6.6	6.56	
4			3.47	13.16	6.03	7.1	7.13	
+50			3.37	13.26	6.41	6.9	6.85	
5	9.02	23.37	2.28	14.35	6.79	7.6	7.56	
+50			8.45	14.92	7.16	7.8	7.76	
6			8.14	15.23	7.54	7.7	7.69	
+50			9.39	13.98	7.92	6.1	6.06	
+60 N.H. & Cable Break			9.07	14.30	8.00	6.3	6.30	
7			6.62	16.75	8.60	8.2	8.15	
+50			5.85	17.52	9.36	8.2	8.16	
8			5.18	18.19	10.12	8.1	8.07	

8+50		23.37	4.47	18.90	10.88	8.0	8.02
9			5.22	18.15	11.64	6.5	6.51
+50			3.59	19.78	12.39	7.4	7.39
+90 M.H. break			3.34	20.03	13.00	7.0	7.03
10+0			3.25	20.12	13.18	6.9	6.94
+50	11.17	32.30	2.24	21.13	14.09	7.0	7.04
11			10.95	21.35	15.00	6.4	6.35
+50			10.16	22.14	15.91	6.2	6.23
12			9.57	22.73	16.82	5.9	5.91
+50			8.31	23.99	17.73	6.3	6.26
13			7.86	24.44	18.64	5.8	5.80
+20 M.H. & De Fos break			7.48	24.82	19.00	5.8	5.82
+50			6.93	25.37	19.63	5.7	5.74
14			5.75	26.55	20.69	5.8	5.86
+50			5.24	27.106	21.75	5.3	5.31
15			4.15	28.15	22.81	5.3	5.34
+50			2.79	29.51	23.87	5.7	5.64
16	11.92	42.44	1.78	30.52	24.93	5.6	5.59
+50 M.H. break			10.12	32.32	26.00	6.3	6.32
17			9.29	33.20	27.28	5.9	5.92

17450		42.44	6.97	35.47	28.57	6.9	6.90
18			6.04	36.40	29.85	6.6	6.55
150			4.80	37.64	31.14	6.5	6.68
19			3.27	39.17	32.42	6.7	6.50
150			2.25	40.19	33.71	6.5	6.75
+80 M.H. M.H. ϕ Elcks Break			1.96	40.48	34.50	6.0	6.48
20	11.78	53.76	0.46	41.98	35.28	6.7	5.98
150			9.98	43.78	37.22	6.6	6.70
21			8.09	45.67	39.16	6.5	6.56
150			5.83	47.93	41.10	6.8	5.70
+60 Break			5.31	48.45	41.50	8.0	6.51
22			3.48	50.28	44.03	6.3	6.83
+50	12.33	65.07	1.02	52.74	47.19	5.5	6.95
23			8.09	56.98	50.36	6.6	6.25
+10 M.H. Break			7.34	57.79	51.00	6.7	6.62
150			4.36	60.71	55.17	5.6	6.73
T.P.	12.46	77.14	0.39	64.65			5.54
24			10.80	66.34	60.38	6.0	5.96
150			5.24	71.90	65.60	6.3	6.30
T.P.	12.47	89.33	0.28	76.86			6.57
25			11.95	77.38	70.81	6.6	6.03
+40 Breaks			8.30	81.03	75.00	6.0	

✓ Pipe to here

4019	4557	4557
538	775	885
<u>4557</u>	<u>3782</u>	<u>3872</u>
	3114	3242
	6.68	6.50

4793
<u>291</u>
5074
<u>588</u>
4486
<u>3916</u>
5.70

25450		89.33	7.21	82.12	75.20	6.9	6.92
26			3.33	86.00	76.20	9.8	9.80
				77.00		9.8	9.84
+40 M.H. & Froude break			2.49	86.84	80.00	6.8	6.89
+150	12.35	99.08	2.60	86.73	80.60	6.1	6.13
27			10.59	88.49	83.60	4.9	4.89
+150	12.08	108.64	2.52	96.56	86.60	10.0	9.96
28			6.71	101.93	89.60	12.3	12.33
+40 break			5.47	103.17	92.00	11.2	11.17
+150			5.67	102.97	92.38	10.6	10.59
29			6.66	101.98	94.30	7.7	7.68
+150			4.91	103.73	96.30	7.5	7.51
+70 M.H. break			3.82	104.82	97.00	7.8	7.82
30+0	12.56	118.59	2.61	106.10	99.82	6.1	6.21
+150			7.91	110.68	104.51	6.2	6.17
31	12.67	129.37	1.89	116.70	109.10	7.5	7.49
+150			7.76	121.61	113.90	7.7	7.71
32			2.05	127.32	118.60	8.7	8.72
T.P.	11.82	140.92	0.27	129.10			
+150			8.40	132.52	123.129	9.2	9.23
33 M.H. & M.H. & Guizot break			7.74	133.18	128.00	5.2	5.18
+30 break			3.63	137.29	131.00		
T.P.	12.64	152.49	1.07	139.85		6.3	6.29

86.00
6.30
92.30 H.
5.29
87.01

10.01
7.01
New cuts
7.01

133.18
52.81
175.69

145.69
8.33
137.36
131.00
6.36

	152.49						
33.50		6.59	145.90	136.60	9.3	9.30-9.12	
+80 break 12.47	163.43	1.73	150.76	145.00	5.8	5.76 5.24	
34		2.44	154.99	147.40	7.6	7.59 7.23	
+50		3.55	159.88	153.40	6.5	6.48	
+80 break 12.46	174.92	0.97	162.46	159.00	5.5	5.46	
35		10.56	164.06	157.29	6.8	6.77	
+50		7.12	167.80	158.00	9.8	9.80	
36		4.90	170.02	158.72	11.3	11.30	
+20 M.H. break		4.50	170.42	159.00	11.4	11.42	
+50		4.17	170.75	159.09	11.7	11.66	
37		4.03	170.89	159.31	11.6	11.58	
+50		4.09	170.83	159.53	11.3	11.30	
38	2.26	173.32	3.86	171.06	159.75	11.3	11.31
+50		3.18	170.14	159.97	10.2	10.17	
39		3.77	169.55	160.19	9.4	9.36	
+50		7.13	166.19	160.41	5.8	5.78	
+60 M.H. Santa Barbara break		7.13	166.19	160.50	5.7	5.69	
40		5.47	167.85	160.72	7.1	7.13	
+50		5.14	168.18	161.00	7.2	7.18	
41		5.16	168.16	161.27	6.9	6.89	
+40 F.T.		5.80	167.52	161.50	6.0	6.02	

145.69
 0.93
 144.76
 11.66
 156.42
 10.70
 36.60
 9.12

145.69
 156.42
 6.18
 150.24
 45
 5.24

170.43
 173.32
 4.43
 169.89
 156.42
 1.79
 154.63
 47.40
 7.23

68

11.00
 28.60
 17.60

Senior & Cable st from M.H. & Alley bet Muir & Long
 Branch South for 582.5 to M.H. & Alley bet Brighton & Cape May
 note stakes set 6' E of E st
 B.M. 3.57 20.25 16.68

at 0 = M.H. (constructed) & Alley bet Muir & Long Branch	4.12	16.13	7.00	9.1 ✓
+50	4.21	16.04	7.19	8.8 ✓
1	4.47	15.78	7.38	8.4 ✓
+50	4.76	15.49	7.57	7.9 ✓
2	5.10	15.15	7.76	7.4 ✓
+50	5.19	15.06	7.94	7.1 ✓
break				
+65 M.H. Alley bet Long Branch & Brighton	5.29	14.96	8.00	7.0 ✓
3	5.68	14.57	8.16	6.9
+50	6.18	14.27	8.40	5.7 ✓
4	5.78	14.47	8.63	5.8 ✓
+50	5.88	14.37	8.87	5.5 ✓
5	6.02	14.23	9.10	5.1 ✓
+50	6.20	14.05	9.34	4.7 ✓
+82 ⁵ M.H. & Alley bet Brighton & Cape May	6.38	13.87	9.50	4.4 ✓

13.87	19.46	19.46	19.46	19.46	19.46	19.46
5.59	9.50	9.34	9.10	8.87	8.63	8.40
19.46	9.96	10.12	10.36	10.59	10.83	11.06
19.46 M.H.	✓	✓	✓	✓	✓	✓

16.04	19.89	19.89	19.89	19.89	19.89
4.86	7.19	7.38	7.57	7.76	7.94
20.90 M.H.	19.89	12.51	12.32	12.13	11.95
✓	✓	✓	✓	✓	✓

69
 19.46
 8.16
 11.30

0.377

0.372

sewer Bacon st (15' w of Φ) from M.H. Φ of Alley
between Long Branch & Brighton to M.H. Φ of Cape May
stakes set 6' w of Φ ditch

B.M. n.m. brass pla. Bacon & Brighton	5.44	10.02	4.53	
0+0 = M.H. Φ Alley bet Long Branch & Brighton	5.5	4.5	-2.00	
+50	4.5	5.5	-1.73	
1	4.5	5.5	-1.46	
+37 ⁵ = M.H. Φ Brighton break	5.2	4.8	-1.25	
+50	5.4	4.6	-1.20	
2	4.7	5.3	-0.99	
+50	4.5	5.5	-0.78	
3	4.4	5.6	-0.57	
+17 ⁵ = M.H. Φ Alley bet Brighton & Cape May	4.0	6.0	-0.50	
+50	3.8	6.2	-0.33	
4	3.8	6.2	-0.07	
+50	3.7	6.3	+0.19	
5	3.5	6.2	+0.46	
+07 ⁵ = M.H. Φ Cape May	3.7	6.3	+0.50	

sewer Alley bet Long Branch & Brighton from M.H. 15' w of Φ Bacon
Foot for 40' to end of existing sewer - stakes set 6' w of Φ
Sec 950-41

0+0 = M.H.	5.0	5.0	-2.00	7.0
0+45 = end of existing sewer break	2.8	7.2	-1.59	8.8

Cut

4.53	10.11	10.11	10.11	
5.58	2.00	1.73	1.46	
10.11	12.11	11.34	11.57	
4.53	9.88	9.88	9.88	9.88
5.35	1.25	1.20	0.99	0.78
9.88	11.13	11.08	10.87	10.66
4.53	10.55	10.55	10.55	10.55
6.02	0.33	0.27	0.19	0.16
10.55	10.88	10.62	10.36	10.09

Sewer & Alley between Saratoga & Santa Monica
 from N.H. & Bacon East for 4310 to F.T. 40' w/ w.l. Venice

11/15

72

B.M. x E. Crossing	Bacon	Saratoga	8.00	Grade	Cut
	7.33	15.33		4.00	4.18
0 to N.H. & Bacon		7.15	8.18	4.25	3.93
+50		5.75	9.58	4.51	5.07
1		5.73	9.60	4.78	4.82
+50		5.05	10.28	5.04	5.24
2		4.46	10.87	5.81	5.56
+50		4.84	10.49	5.57	4.94
3		4.12	11.21	5.34	5.37
+30 M.H. Break		3.21	12.12	6.00	6.12
+50	7.38	20.15	2.56	12.77	6.59
4			6.97	13.18	6.55
+50			6.25	13.90	6.81
5			5.87	14.28	6.74
+50			5.43	14.72	6.73
6			4.96	15.19	6.74
+50			4.69	15.46	6.56
+60 M.H. & Cable Break			4.27	15.88	6.88
	8.14	24.02			
7			7.42	16.60	7.12
+50			6.93	17.09	7.01
8			6.77	17.25	6.56

8+50	24.02		5.99	18.03	11.30	6.73
9			5.46	18.56	11.90	6.66
+50			4.95	19.07	12.51	6.56
+90 M.H. Break			4.68	19.34	13.00	6.34
10			4.56	19.46	13.18	6.28
+50			3.74	20.28	14.09	6.19
11	8.98	30.14	2.86	21.16	15.00	6.16
+50			8.42	21.72	15.91	5.81
12			7.54	22.60	16.82	5.78
+50			6.56	23.58	17.72	5.86
13			6.07	24.07	18.63	5.44
+20 M.H. De Fac Break			5.25	24.89	19.00	5.89
	12.09	36.98				5.11
+50			11.53	25.75	20.00	5.45
14			9.18	27.80	21.67	6.13
+50			8.41	28.57	23.33	5.24
15			6.58	30.40	25.00	5.40
+50			5.30	31.78	26.66	5.12
16			2.87	34.11	28.33	5.78
+50 M.N. 11.43		47.69	0.72	36.26	30.00	6.26
17			9.18	37.91	31.67	6.24

$$\begin{array}{r} 17.44 \\ 5.93 \\ \hline 23.58 \end{array}$$

$$\begin{array}{r} 23.58 \\ 5.93 \\ \hline 29.51 \end{array}$$

$$\begin{array}{r} 2.500 \\ 9.71 \\ \hline 12.21 \end{array}$$

$$\begin{array}{r} 19.1061 \\ 4.70 \\ \hline 23.8061 \end{array}$$

New cuts

		47.69				
17+50			7.83	39.86	33.33	
18			5.68	42.01	35.00	
+50			3.24	43.85	36.67	
T.P.	11.38	58.37	0.70	46.99		
19			11.89	46.48	38.33	
+50			10.29	48.08	40.00	
+80 M.H. & Ebers break			9.95	48.42	41.00	
20			8.79	49.58	42.03	
+50			7.09	51.33	44.60	
21			5.08	53.29	47.18	
+50	12.19	68.13	2.43	55.94	49.75	
22			9.66	58.47	52.33	
+50			7.65	60.48	54.90	
23			4.93	63.20	57.48	
+10 M.H. break			3.87	64.26	58.00	
+50	12.57	78.57	2.13	66.00	61.27	
24			7.80	70.77	65.36	
+50			4.21	74.36	69.45	
T.P. 12.09		90.72	0.24	78.33		
25			10.94	79.48	73.54	
+50			6.40	84.02	77.63	
26	8.13	95.66	2.89	87.53	81.72	

6.53						
7.01	6.98 - new cut.					
7.18	7.00 new cut.					
8.15	8.01 - new cut.					
8.08						
7.42						
7.55						
6.73						
6.11						
6.19						
6.14						
5.58						
5.72						
6.26						
4.73						
5.41						
4.91						
5.94						
6.39						
5.81						

74

$$\begin{array}{r} 51.33 \\ 3.36 \\ \hline 54.69 \end{array}$$

$$\begin{array}{r} 49.58 \\ 0.10 \\ \hline 54.68 \end{array}$$

$$\begin{array}{r} 40 \\ 14.68 \\ 6.59 \\ \hline 8.09 \end{array}$$

$$\begin{array}{r} 38.93 \\ 16.38 \\ \hline 8.01 \end{array}$$

$$\begin{array}{r} 36.67 \\ 18.01 \\ \hline 11.01 \end{array}$$

$$\begin{array}{r} 35 \\ 19.25 \\ \hline 6.78 \end{array}$$

		95.66							
26+40 M.H. ϕ Froude break			5.17	90.49	85.00			5.49	
+50			12.31	90.41	85.76			4.85	
27			7.43	95.49	89.55			5.94	
+50	12.79	113.38	2.33	100.59	93.34			7.25	
28			7.84	105.54	97.12			8.42	
+50			5.09	108.29	100.91			7.38	
29			4.14	109.24	104.70			4.54	
T.P.	12.77	125.53	0.62	112.76					
+50			10.88	114.65	108.49			6.16	
+70 M.H. break			9.19	116.34	110.00			6.34	
30			6.14	119.39	112.38			7.03	7.01
					112.36				
+50			2.52	123.01	116.34			6.71	6.61
T.P.	11.80	137.00	0.33	125.20	116.30				
31			10.40	126.60	120.30			6.36	6.30
					120.24				
+50			6.88	130.12	124.26			5.94	5.86
					124.13				
32			2.38	134.62	128.22			6.50	6.40
T.P.	9.26	145.90	0.36	136.64	128.12				
+50			3.55	142.35	132.18			10.29	9.43
					132.06				
32+98 =									
33+8 M.H. ϕ Guizot break			2.73	143.17	136.00			7.14	7.07
+50			2.72	152.89	144.12			8.77	new cut 7.24
T.P.	12.94	167.73	0.82	154.79					
+80 break			11.87	155.86	149.00			6.86	
34			9.79	157.94	151.62			6.32	
+50			3.69	164.04	158.18			5.86	
	12.89	180.20	0.42	167.31					

157.94
 2.33
 160.27
 8.91
 151.36
 44.12
 7.24

75
 5.1

180.20

76

3570			8.87	171.33	164.74	6.59
+ 40 M.H. break			4.72	175.48	170.00	5.48
+50	12.41	188.87	3.74	176.46	170.61	5.85
36			7.52	181.35	173.66	7.69
+50	11.24	197.55	2.56	186.31	176.71	9.60
37			9.21	188.34	179.76	8.58
+206 break			8.36	189.19	181.00	8.19
+50			7.10	190.45	181.25	9.20
38			5.28	192.27	181.47	10.60
+50			3.76	193.79	182.08	11.71
39	6.30	201.38	2.47	195.08	182.50	12.58
+50			10.19	191.19	182.91	8.28
+60 M.H. E Santa Barbara break			10.01	191.37	183.00	8.37
4070			5.45	195.93	183.23	12.70
+50			5.80	195.58	183.51	12.07
41			6.84	194.54	183.80	10.74
+50			8.24	193.14	184.08	9.06
42			9.07	192.31	184.37	7.94
+50			8.79	192.59	184.65	7.94
43			9.26	192.12	184.94	7.18
+10 FT.			8.91	192.47	185.00	7.47

191.37	191.37	196.49
5.12	5.12	183.00
<hr/>	<hr/>	<hr/>
196.49	196.49	196.49
2.29	1.60	5.12
<hr/>	<hr/>	<hr/>
194.20	194.89	191.37
82.50	183.28	183.
<hr/>	<hr/>	
117.2	116.6	

1310
2860
560
0.

new cut
11.72

new cut
11.66

4.8

7.7

8.0

7.4

77

79

LEVELS FOR SEPTIC TANK

	7.13	9.60		2.47	517 Abbotts
T.P.	5.05	14.61	0.04	9.51	
T.P.	4.80	17.33	8.08	653	on Card Beach Blvd.

	161.07		318.57	
	98.78			
	157.50			
	<u>317.35</u>			
157.50	161.07	318.57		
161.07	98.78	98.78		
98.78	<u>259.85</u>	<u>219.79</u>		
417.35				
157.50				
<u>259.85</u>				
	11.07	15	120.78	
	15.58			
	26.60			
	12.81			
	<u>14.29</u>			

1431

46.68	46.68	46.68	46.68
12.40	42.15	41.71	46.68
27.90	36.19		5.03
12.51	44.97	3.73	41.65

5.66	50.20		30.06
3.63	46.68	7.15	32.46
			0.25
			44.52

4.00	46.23		42.23
			40.41
			40.41
			49

		3.24	42.39
		5.32	40.41

16.98
7.12
986
4.42
1433

41.76
5.21
4677
47.44
22

396
340
636

74.31
68.00
6.31

59.25
0.51
58.74
12.70
71.44
2.72
68.72
9.07
77.79
3.18
74.31

39.03
8.7

79.63
4.34
85.29 F.T.

53.26
41.89
11.67

79.51
73.98
5.53

N.W

1.94

near high tide

1.26

7.15

5.89

x-sec 4

247
1078
1325
673
652

E

8.9

1.8

EE

8.9

1.8

W

8.3

1.2

x-sec north

W

10.2

3.1

ch

1980
320
2310

10.5

3.4

E

10.5

3.4

6/19/9

6" 1 5"
4660 330

76.25 B.M.

65.19 78.02
12.83 1.29
78.02 76.73
2.72 2.5
65.30 4.2

61.83 34
57.94 5
3.89 170

60)179 | 2057
120
59

2059 112 64.69
253 12.83
50 52 77.52
2 54 1.29
80 46 76.23

45.54
4.75

50.29
6.22

44.07
3.31

47.38
4.15

43.23

85.94
59.45
26.49

65.19

396

240

636

71.31

68.00

6.31

2680
20

2220

4920
330

4590
100

4690

34
16

207
39

60)544 | 9
54

64.69
12.83

77.52
1.29

76.23



32.26 33.71

32.32

46.57
12.68

59.25
0.51

58.44
12.70

71.14
2.72

68.42
9.07

77.99
3.19

74.31

280
275
555

42.0

124

64.6

65.6

16

38

32.9

5

1645

2

60)173 | 2
120

530

33

198

33

6522

18

48

48

33.79

41.76

521

4697

7.90

39.02

0.3

8.7

