

1155

WAS

FIELD BOOK

No. 385

1155

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THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

IRVING PARK STATION

CHICAGO, ILL.

92 FIFTH ST.
PORTLAND, ORE.

75 NEW MONTGOMERY ST.
SAN FRANCISCO, CAL.

AGENTS FOR

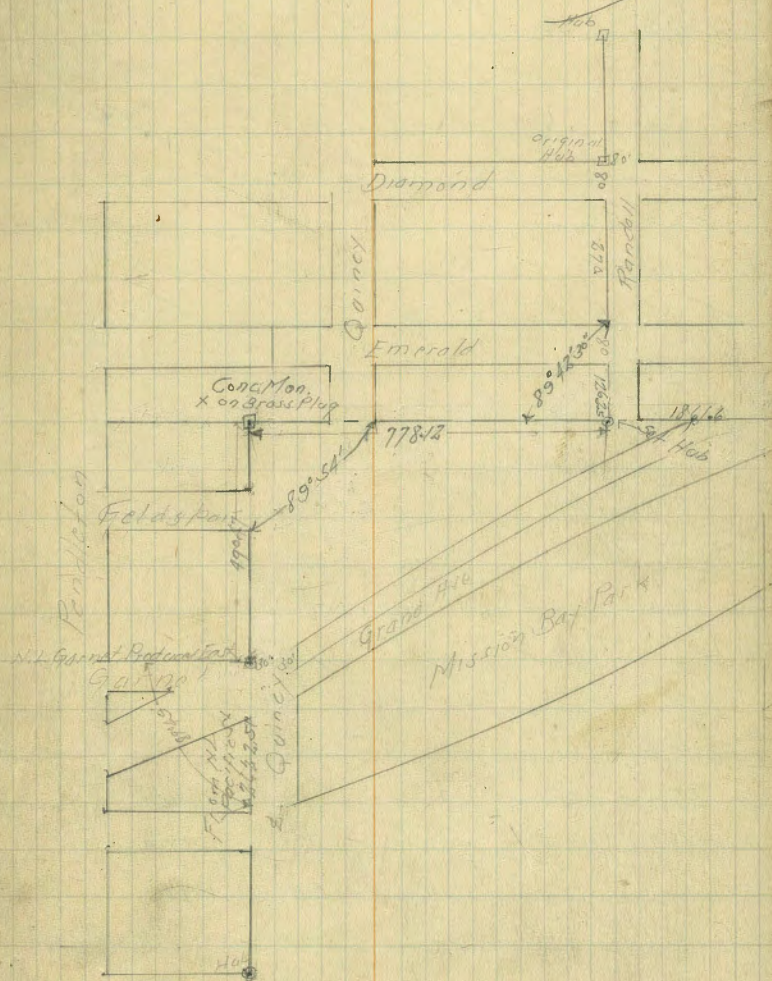
"BERGER" TRANSITS and LEVELS

"GURLEY" SURVEYING and HYDRAULIC INSTRUMENTS

"CHICAGO" STEEL TAPES, etc.

Tie For the Opening of Randall St
 in Mission Bay Park

6.4.11
 5.3.11
 5.1.11
 4.1.11



N. L. Peck

Cross Section of Epsilon St.
From 39th St to Highland

80' wide
14' Cbs
13' Qts

57.5

52.5
53.0
53.5
54.0

N Entrance
School
Epsilon 3408

BM	6.90	57.09	50.39
TP	1.17	<u>52.58</u>	8.98
		W 1 39'	48.11
S		10.2	42.4
Cb on End		10.42	42.16
Gutter		11.0	41.6
H		10.2	42.3
S		10.1	42.5
H		10.2	42.3
Gutter		10.6	42.0
Cb on End		9.95	42.63
N		9.9	42.7
		W Cb	
H		10.6	42.0
Cb		10.4	42.2
S		10.5	42.1
H		9.9	42.7
S		9.8	42.8
H		9.9	42.7
Cb		10.1	42.7
S		10.6	42.0
		W H	
S		9.8	42.7
Cb		9.7	42.9
H		9.5	43.1

S	9.3	43.3
H	9.6	43.0
S	9.8	42.8
H	10.5	42.1
Cb	9.9	42.7
H	9.7	42.9
	S 30' 60'	
H	9.6	43.4
Cb	9.4	43.2
S	9.9	42.7
H	9.3	43.3
S	8.9	43.7
H	9.6	43.4
S	9.7	42.9
Cb	9.8	43.2
S	9.8	43.4
	E 11	
S	9.1	43.5
Cb	9.3	43.3
S	9.5	43.1
H	9.0	43.6
S	8.6	44.0
H	9.0	43.6
S	9.5	43.1
Cb	9.2	43.4
H	9.0	43.6

Epsilon

57.58

Fcb

N	85	44.1
Cb	88	43.8
+4	93	43.3
1/4	87	44.9
2	87	44.4
1/4	88	43.8
+7	91	43.5
+9	85	44.1
Cb	85	44.1
s	85	44.1

FL 3076.54

s	86	44.0
Cb	82	44.3
+7	85	44.1
+6	90	43.6
1/4	84	44.2
2	80	44.6
1/4	85	44.1
+6	91	43.5
+9	82	44.4
Cb	83	44.3
N	82	44.4

50°E

N	77	45.2
Cb	77	45.2

33/65
60' 1/2
14' Cb
70-8718°E on a line
Cone 1/2 1/2
750

+3

+5

1/4

2

1/4

1/4

79

Cb

5

5

5

Cb

+6

1/4

2

1/4

76

+9

Cb

N

N

Cb

N

Cb

+6

1/4

57.58

76

79

73

70

76

80

77

75

76

100°E

70

68

70

66

61

65

74

66

66

65

6.22

150°E

60

59

62

58

45.5

44.7

45.3

45.6

45.0

44.6

45.2

45.1

45.0

45.6

45.8

45.6

46.0

46.5

46.1

45.2

46.0

46.0

46.1

46.16

46.6

46.7

46.4

46.9

Epsi/00

52.58

2	53	47.3
11	58	46.8
+7	63	46.3
+9	58	46.8
cb	58	46.8
S	61	46.5

200E

S	59	46.7
cb	51	47.0
+5	55	47.1
+6	61	46.5
11	55	47.1
2	49	47.7
1/4	51	47.5
+8	56	47.0
+10	49	47.7
cb	53	47.3
N	55	47.1

225E

N	40	48.6
C	46	48.0
+3	44	48.2
+5	52	47.4
11	51	47.5
2	49	47.7
11	51	47.2

52.58

57	46.9
51	47.4
52	47.4
56	47.0

250E

S	51	47.2
cb	50	47.6
11	49	47.7
+8	52	47.4
11	48	47.8
2	45	48.1
11	47	47.9
+7	45	48.1
11B	38	48.8
cb	36	49.0
N	33	49.3

215E

N	40	48.6
cb	46	48.2
11	47	47.9
2	46	48.0
11	48	47.8
cb	52	47.6
S	54	47.2

300E

S	54	47.2
---	----	------

cb	51	47.5		75	
74	49	47.7	313' Food N/L Conc. Walk 2.86	76	
2	49	47.7		74	
74	47	47.9		2	
cb	43	48.3		74	
H	37	48.9		cb	
				S	
	350'E				
H	36	49.0			
cb	38	48.8		S	
74	41	48.5		cb	
2	43	48.3		74	
74	45	48.1		2	
cb	47	47.9		75	
S	51	47.5		74	
				75	
	370'E				
S	48	47.8		76	
cb	45	48.4		cb	
78	37	48.5		H	
74	36	49.0			
2	37	48.9		H	
74	36	49.0		74	
cb	33	49.3		cb	
H	31	49.6		74	
				2	
	400'E				
H	26	50.0		74	
cb	27	49.9		cb	

	27	49.9			
	30	49.6			
	28	49.8			
	31	49.5			
	35	49.1			
	40	48.6			
	44	48.2			
	450'E				
	37	48.9			
	34	49.2			
	30	49.6			
	29	49.7			
	25	50.1			
	24	50.2			
	21	50.2			
	21	50.5			
	21	50.5			
	17	50.9			
	480'E				
	0.3	52.3			
	1.0	51.6			
	12	51.4			
	18	50.8			
	20	50.6			
	26	50.0			
	32	49.4			

Epsilon

57.59

60.83

S			3.1	49.2	+6	11.0	49.8	515' East of Entrance to Canal
TP	9.62	60.83	11.27	51.21	+8	10.7	50.1	10.53
		500'E	500'E		S	10.5	50.3	
S			11.1	49.7		550'E		
Cb			10.9	49.9	S	10.7	50.1	
+9			9.8	51.0	7/11	11.0	49.8	
1/4			9.6	51.2	Cb	9.9	50.9	
+6			9.6	51.2	+6	9.1	51.7	
+2			9.9	50.9	1/4	8.9	51.9	
2			9.5	51.3	+9	8.8	52.0	
+3			9.1	51.4	2	8.6	52.4	
1/4			9.6	51.2	7/4	8.0	52.8	
Cb			9.3	51.5	1/4	8.1	52.7	
+8			9.0	51.8	+2	8.3	52.5	
H			8.9	52.4	+1	7.7	53.1	
		530'E			Cb	7.1	53.6	
H			8.1	52.7	1/4	6.5	54.3	
Cb			8.1	52.5		590'E		
+10			8.3	52.5	H	6.1	52.7	
1/4			8.8	52.2	+10	7.1	53.7	
+8			9.2	52.6	Cb	7.1	53.7	
2			8.6	52.2	1/4	7.7	53.1	
+5			9.1	51.7	2	7.9	52.9	
1/4			9.2	51.6	1/4	7.8	53.0	
+12			9.6	51.4	Cb	8.3	52.5	
Cb			10.6	50.2	+5	8.3	52.5	

Epsilon

60.83

79	9.3	51.5
710	110	49.8
S	113	49.5
59.57		
S	8.3	52.5
cb	80	52.8
1/4	78	53.0
Z	78	53.0
1/4	77	53.1
cb	72	53.6
15	70	53.8
H	62	54.6

60.57 - 1/4 L 40^{ms}

H	61	54.7
710	69	53.9
cb	71	53.7
1/4	75	53.3
Z	76	53.2
1/4	77	53.1
cb	78	53.0
S	85	52.3
Hcb		
S	81	52.7
cb	77	53.4
1/4	73	53.5
Z	72	52.6

60.83

1/4	72	53.6
cb	68	54.0
H	61	54.7
H 1/4		
H	57	55.1
cb	60	54.8
1/4	62	54.5
Z	66	54.2
1/4	70	53.8
cb	74	53.4
S	80	52.8

Z 40.51

S	79	52.9
cb	75	53.3
1/4	71	53.7
Z	66	54.2
1/4	62	54.6
cb	59	54.9
H	58	55.0
E 1/4		
H	56	55.2
cb	58	55.0
1/4	61	54.7
Z	63	54.7
1/4	69	53.9
cb	75	53.3

40.65
60' wide
10' cbs
10' 0.15

60.83

S	81	57.7
	FCb	
S	74	53.4
cb	68	54.0
1/4	65	54.3
Z	60	54.8
+5	58	55.0
1/4	60	54.8
+1	58	55.0
cb	53	55.5
N	47	56.1

E.L. 904542010

N	35	57.3
+5	38	57.0
cb	47	56.1
+11	54	55.4
1/4	62	57.6
+4	56	55.2
Z	58	55.0
1/4	64	54.4
+3	66	54.7
+4	63	54.5
cb	62	54.6
+6	62	54.8
S	70	53.8

L'E

60.83

8

S	63	54.5
cb	60	54.8
+10	66	54.7
1/4	63	54.5
Z	58	55.0
1/4	61	54.7
+2	53	55.5
cb	42	56.4
+5	36	57.2
N	32	57.6

501

N	31	57.7
cb	36	57.2
+9	45	56.3
+10	51	55.7
1/4	51	55.7
Z	53	55.5
+10	57	55.1
1/4	61	54.7
+3	61	54.4
+4	58	55.0
cb	61	54.7
S	66	54.2

1001

S	60	54.8
cb	55	55.3

Eps 1/00

60.83

+9	52	55.6
+10	51	55.7
1/4	54	55.4
+5	46	56.2
L	43	56.5
1/4	40	56.8
cb	34	57.4
H	30	57.8
1.50 F		
H	30	57.8
cb	35	57.3
+9	39	56.9
+10	41	56.7
1/4	39	56.9
+1	38	57.0
L	35	57.3
1/4	44	56.4
+2	48	56.0
+3	45	56.3
cb	48	56.0
S	55	55.3
1.90 F		
S	57	55.1
+5	56	55.7
+10	46	56.7
cb	43	56.5

60.83

+9	39	56.9
+10	44	56.4
1/4	43	56.5
L	37	57.1
1/4	40	56.8
+2	41	56.7
+3	34	57.4
cb	33	57.6
H	25	58.3
2.00 F		
H	25	58.3
cb	37	57.7
+9	35	57.3
+10	39	56.9
1/4	39	56.9
L	38	57.0
1/4	43	56.5
+2	48	56.0
+3	45	56.3
cb	48	56.0
+8	51	55.7
S	48	56.0
2.25 F		
S	34	57.2
+5	37	57.1
cb	43	56.5

79	45	56.3
710	48	56.0
74	45	56.3
74	42	56.6
2	38	57.0
74	42	56.6
71	36	57.2
cb	33	57.5
H	26	58.2

250'E

H	20	58.8
cb	25	58.3
79	29	57.9
710	36	57.2
74	27	57.1
2	39	56.9
74	47	56.1
72	49	55.9
74	44	56.4
cb	46	56.2
S	42	56.6

265'E

S	45	56.3
cb	40	56.8
49	41	56.7
710	42	56.1

74	45	56.3
72	39	56.9
2	38	57.0
74	37	57.1
72	35	57.3
75	24	58.4
cb	19	58.9
H	18	59.0

285'E

H	22	58.6
cb	25	58.3
77	25	58.3
79	35	57.3
74	38	57.0
2	37	57.1
74	41	56.7
72	41	56.7
74	26	58.2
cb	23	58.5
78	26	58.2
7	33	57.5

300'E

S	37	57.1
cb	31	57.4
79	36	57.2
710	42	56.6

265' on N.L.
Conc. Walk
175'

60.83

+9	1/4		43	56.5
+10	Z		58	57.0
1/4	1/4		39	56.9
+4	+4		38	57.0
Z	+6		29	57.9
1/4	cb		26	58.2
+1	N		21	58.7
cb	TP	302	124	57.59
N				
		3251		
N	N		33	59.3
cb	cb		42	56.9
+9	+8		44	58.2
+10	1/4		61	56.5
1/4	Z		60	56.6
Z	1/4		67	55.9
1/4	cb		68	55.8
+2	+5		67	55.9
+4	S		58	56.8
cb		3505		
S	S		90	53.6
	cb		86	54.0
S	1/4		74	54.2
cb	+5		69	55.7
+9	Z		68	55.8
+10	1/4		70	55.6

62.61

+3			69	55.7
+7			62	56.4
cb	L		57	56.9
N			45	58.1
		3755		
N			56	57.0
cb			68	56.8
1/4			71	55.2
Z			74	55.2
+10			80	54.6
1/4			88	53.8
cb			100	52.6
S			107	51.9
		4005		
S			111	51.5
cb			89	52.7
+10			94	53.2
1/4			88	53.8
+7			77	54.9
Z			73	55.3
1/4			76	55.0
cb			70	55.6
N			61	56.5
		4651		
N			65	56.1
cb			71	55.5

60.83
31.00

Epsilon

62.61

74	77	54.9
73	73	55.3
2	73	55.3
74	80	54.6
73	81	54.0
cb	82	53.7
5	96	53.0
150'E		
5	88	53.8
cb	80	54.6
79	71	55.2
710	82	54.4
74	79	54.7
2	72	55.4
74	74	55.2
cb	70	55.6
74	64	56.2
500'E		
74	58	56.8
cb	57	56.9
78	53	57.3
711	66	56.0
74	65	56.1
2	65	56.1
74	72	55.3
73	74	55.2

62.61

74	70	55.6
cb	76	55.0
5	84	54.2
550'E		
5	81	54.5
cb	77	54.9
74	68	55.8
78	66	56.0
2	65	56.1
74	64	56.2
73	67	55.9
75	58	56.8
cb	53	57.3
74	49	57.7
580'E		
74	47	57.9
cb	57	56.9
79	64	56.2
711	68	55.8
74	66	56.0
2	67	55.9
710	72	57.4
74	78	54.8
cb	81	54.5
5	84	54.2

600'E - 74 91' 51"

6261

59.70

S		9.1	53.5	41 st St	Z
Cb		8.3	54.3	60 th St	H
+11		8.0	54.6	1 st Cbs	Cb
14		7.5	55.1	16 th St	H
+5		6.9	55.7		
Z		6.7	55.9		H
14		6.4	56.7		Cb
+2		6.2	55.9		H
+5		5.8	56.8		Z
Cb		5.7	57.2		H
H		4.6	58.0		H
BM	51.5	59.70	8.01	51.65	+3
				6.7.81	Cb
H			1.3	58.4	S
Cb			2.3	57.4	
+8			2.2	56.8	S
+11			3.4	56.3	Cb
14			3.4	56.3	+10
Z			3.7	56.0	+11
14			4.7	55.0	H
Cb			5.3	54.4	Z
S			6.1	53.6	H
					Cb
S			6.3	53.4	H
Cb			5.1	54.3	
14			4.6	55.1	H

2. 41st St.

5 14

5 Cb

38	55.9
32	56.5
32	56.5
27	57.0
21	57.3
27	56.8
32	56.5
38	55.9
45	55.7
47	55.0
41	55.6
48	54.9
68	52.9
76	52.1
56	54.5
43	55.6
48	54.9
47	55.0
43	55.6
40	54.7
30	56.7
26	57.1
36	56.1

Epsilon

5970

cb	39	55.8
+3	39	55.8
15	45	54.2
14	50	54.7
2	54	54.3
14	56	54.1
+2	58	53.9
13	53	54.4
cb	69	52.8
5	89	50.8
FL 11 st 54		
-10	115	48.2
5	103	49.4
cb	83	51.4
+11	73	52.4
14	74	52.3
2	68	52.9
14	65	53.2
+8	60	53.7
cb	54	54.3
H	43	55.4
25 st		
H	91	50.6
cb	97	50.0
14	95	50.2
2	98	49.9

5970

16	101	49.6
110	116	48.1
14	122	47.5
cb	133	46.3
5	146	45.1
115	152	44.5
36 st		
-20	168	42.9
5	158	43.9
cb	146	45.1
14	135	46.2
110	104	49.3
2	101	49.3
111	101	49.6
14	107	49.0
cb	108	48.9
H	101	49.6
110	95	50.2

10 Prop. Content

FL 11st 54

Epsilon

41st

59.70

+50

Levels For Proposed Culvert

0+0 - 10' H	99	49.8
+10 - N.E. Epsilon	107	49.0
+32	117	48.0
+37	107	49.0
+53	109	48.8
+64	140	45.7
+80	152	44.5
1400	162	43.5

57' E.L. 41' 4" S1

-10	102	49.5
N	103	49.4
cb	117	48.0
+10	118	47.9
1/4	109	48.8
2	109	48.8
+4	110	48.7
+10	133	46.4
1/4	133	46.4
cb	147	45.0
S	153	44.6
+15	148	44.9

75' E

-10	123	47.6
S	126	47.1
cb	131	46.6

59.70

11	120	49.7
110	107	49.0
2	107	49.0
1/4	107	49.0
cb	103	49.4
N	96	50.1
110	82	51.5

100' E

N	58	53.9
cb	83	51.4
1/4	94	50.3
2	94	50.3
+8	96	50.1
1/4	104	49.3
cb	109	48.8
S	102	49.5
+10	97	50.0

125' E

S	81	51.6
cb	85	51.2
1/4	97	50.0
+5	70	52.7
2	78	52.5
1/4	76	52.1
cb	65	53.2
+1	46	55.1

Epsilon

5970

N		29	56.8
	150'E		
N		29	56.8
+11		41	54.6
cb		54	54.3
1/4		54	54.3
S		60	53.7
+8		60	53.7
1/4		67	53.9
cb		67	53.9
S		63	53.4
	200'E		
S		56	54.1
cb		50	54.7
+8		47	54.0
+11		52	54.5
1/4		48	54.9
S		37	56.0
1/4		30	56.9
cb		19	57.8
+2		11	58.6
N		02	59.5
TP	781	6600	151
		250'E	58.19
N		49	61.1
cb		60	60.0

Gangna
205'E 200'E
C90C Floor
540

6600

16

1/4		72	58.8
S		83	57.7
1/4		99	56.1
cb		113	54.9
S		123	53.7
	275'E		
S	dirt walk	118	54.2
cb		98	56.7
1/4		85	57.5
S		69	59.1
1/4		61	59.9
cb		54	60.6
N		45	61.5
	300'E		
N		58	62.7
cb		44	61.6
1/4		40	61.2
S		57	60.3
1/4		73	58.7
cb		87	57.3
S	Garage Head Floor	93	56.7
	375'E		
S		81	57.6
1/4		68	59.2
cb		65	59.5
1/4		59	60.2

675'E
115.711

Epsilon

66.00

S	50	61.0
74	46	61.4
cb	43	61.7
N	39	62.1
350'E		
N	46	61.4
cb	48	61.8
74	44	61.6
S	47	61.3
74	52	60.8
77	51	60.9
cb	56	60.4
S	64	59.6
H End Hedge & Flowers 10' line of path 10' Trees H.N.S.L. 375'E		
S	51	60.9
cb	47	61.3
79	42	61.8
74	46	61.4
S	42	61.8
74	42	61.8
75	43	61.7
77	38	62.2
cb	43	61.7
N	65	59.5
710	86	59.4

390'E

17

66.00

-15	99	56.1
N	85	57.5
cb	60	63.0
77	49	61.1
74	47	61.3
S	44	61.6
74	45	61.5
74	40	62.2
cb	39	62.1
S Entrance to Petersens Nursery	43	61.7
425'E		
S	34	62.6
cb	37	62.3
73	37	62.3
74	41	61.9
71	41	61.6
74	49	61.1
S	47	61.3
74	52	60.7
73	48	61.2
cb	61	59.9
N	97	56.3
78	48	54.4
475'E		
-20	120	54.0
N	101	55.4

66.00

cb	71	58.6
+6	65	59.5
14	64	59.6
2	60	60.0
14	55	60.5
+5	45	61.5
cb	41	61.9
S 20 Cape Walk	345	62.55
	500'E	
S	24	62.6
cb	59	61.1
+10	65	59.5
14	72	58.8
2	75	58.5
14	84	57.6
27	81	57.9
cb	89	57.1
N	116	54.4
+20	135	52.5
	525'E	
-20	155	50.5
N	143	51.7
cb	121	53.9
14	104	55.6
2	105	55.5
14	92	56.8

66.00

+3	81	57.6
cb	79	58.1
+5	76	58.4
S	59	60.1
	550'E	
S	90	57.0
+5	100	56.0
18	110	55.0
cb	112	54.7
14	120	54.0
2	121	53.9
14	132	52.8
cb	153	50.7
N	170	49.0
+20	170	49.0
	575'E	
-20	179	48.1
N	180	48.0
cb	179	48.1
14	167	49.3
2	153	50.7
14	155	50.5
cb	155	50.5
S	136	52.4
TP	114	54.1
	211	56.32
	600'E = 141 420' 51"	

5632

S		9.0	47.3	41 nd St 10' Wide 10' Cbs 10' Qts	Cb		
Cb		9.3	47.0		N		
1/4		9.6	46.7		+20		
1/4		9.5	47.3				
1/2		9.1	47.7				
1/4		9.9	46.4				
Cb		10.3	46.0				
N		10.6	45.7				
+20		10.7	45.6				
	17 Cb						
-20		11.7	44.4				
N		11.6	44.7				
Cb		10.9	45.4				
1/4		10.8	45.5				
1/2		9.8	46.5				
1/4		10.6	45.7				
Cb		10.5	45.9				
S		10.1	46.4				
+10		9.9	46.4				
	14 1/4						
-10		11.4	44.9				
S		11.6	46.9				
Cb		12.1	44.7				
1/4		11.4	44.9				
1/2		10.9	45.5				
1/4		11.6	44.7				

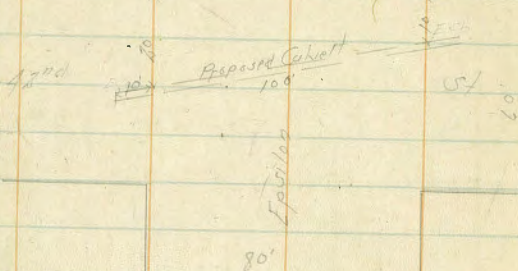
5633

		12.0	44.3			
		12.0	44.3			
		11.4	44.7			
	12 nd St					
		11.6	44.7			
		12.2	44.1			
		12.4	43.9			
		12.2	44.1			
		11.9	44.4			
		11.7	44.6			
		12.1	44.7			
		12.5	43.8			
		13.2	43.1			
	E 1/4					
		13.7	42.6			
		13.1	43.7			
		13.1	43.7			
		12.9	43.4			
		12.9	43.4			
		13.3	43.0			
		12.9	43.4			
		12.9	43.4			
		11.6	44.7			
	E Cb					
		10.6	45.7			
		11.5	44.8			

5632

cb	12.7	43.6
+6	13.1	43.7
1/4	13.3	43.0
2.	13.5	42.8
1/4	14.0	42.3
cb.	14.1	42.2
s	14.8	41.5
+20	15.1	41.2

E.L. 42nd St



Levels Proposed Cabinet

070 - 10' N.H.L.	12.4	43.9
+10	12.9	43.2
+35	13.2	43.0
+55	13.3	43.0
+75	14.2	42.1
+100	14.8	41.5

5632

-10	14.6	41.5
s	15.5	42.8
cb	13.5	42.8
1/4	13.5	42.8
2.	12.1	43.1
1/4	12.6	43.7
cb	11.2	45.1
1/4	11.0	45.3
+15	9.8	46.5
B.M.	10.1	46.2
		NE Part to Epsilon + 430'
		75'
-10	8.2	48.1
1/4	8.5	47.8
cb	9.9	46.4
1/4	10.5	45.8
2.	11.1	45.2
1/4	11.4	44.9
cb	10.6	45.7
s	10.9	45.4
+10	11.3	45.0
		50'
s	6.1	50.1
cb	7.9	48.4
1/4	8.2	48.1
2.	8.8	47.5
1/4	8.1	48.2

56.32

cb	69	49.4
H	64	49.9
75'E		
H	48	51.7
cb	58	50.5
1/4	66	49.7
2	64	49.9
1/4	50	51.3
cb	37	52.6
S	30	53.3

100'E

S	27	52.2
cb	23	54.0
1/4	33	53.0
2	43	52.0
1/4	45	51.8
1/4	41	52.2
cb	35	52.8
H	27	53.9

125'E

H	17	54.6
cb	25	53.9
1/4	31	53.2
2	30	53.3
1/4	25	53.8
cb	21	53.9

56.32

15	23	54.0
S	17	54.6
150'E		
S	26	53.7
cb	31	53.2
1/4	25	52.8
2	35	52.8
1/4	39	52.4
cb	34	52.7
H	23	53.0

175'E

H	50	51.3
cb	47	51.6
1/4	51	51.2
2	51	51.2
1/4	46	51.7
cb	40	52.3
S	39	52.4

200'E

S	51	51.2
cb	51	50.7
1/4	48	49.5
2	42	49.0
1/4	47	49.6
cb	47	49.6
H	45	48.8

Epsilon

56.32

225 F

N	9.7	46.6
cb	10.3	46.0
1/4	10.9	45.4
2	11.3	45.0
1/4	10.8	45.5
cb	10.2	46.1
S	19.0	46.3
TP	5.69	49.17
	12.82	43.48

250 F

-15	8.2	41.0
S	8.3	40.9
cb	8.3	40.9
1/4	8.3	40.9
2	8.0	41.7
1/4	7.2	42.0
cb	6.4	42.8
N	5.9	43.3
+15	6.2	43.0

296 F - Propagant Cultured

-20	9.7	39.5
N	10.0	39.4
cb	10.2	39.0
1/4	10.2	39.0
2	10.3	38.9
1/4	10.4	38.9

49.17

cb	10.4	38.8
S	10.3	38.9
-20	3	10.5
	38.7	
	311 F	
-15	8.7	40.4
S	8.8	40.4
cb	8.8	40.4
1/4	9.0	40.4
2	8.6	40.6
1/4	8.1	41.1
1/4	8.7	40.5
cb	9.7	39.5
N	9.7	39.5
+15	9.8	39.4

330 F

-15	9.5	39.7
N	9.2	40.0
cb	8.7	40.5
1/4	6.2	43.0
2	6.3	42.9
1/4	7.1	42.1
cb	7.4	41.8
S	7.6	41.6
+15	7.8	41.3
	350 F	
S	4.8	45.0

49.17

Cb			48	44.4
1/4			4.2	45.0
2			3.1	46.1
1/4			3.0	46.2
1.5			2.7	46.5
Cb			5.6	43.6
1.5			7.8	41.4
N			8.1	41.1
1.5			8.5	40.7
		370' E		
-1.5			6.7	42.5
N			5.7	43.5
1.5			5.1	44.1
Cb			2.4	46.8
TP	9.70	58.30	0.57	48.60
1.6			8.9	49.4
1/4			8.9	49.4
2			9.4	49.9
1/4			9.6	49.7
Cb			8.2	50.1
S			6.9	51.9
		387' E		
S			3.7	52.6
Cb			4.0	54.3
1/4			5.1	53.2
2			5.6	52.7

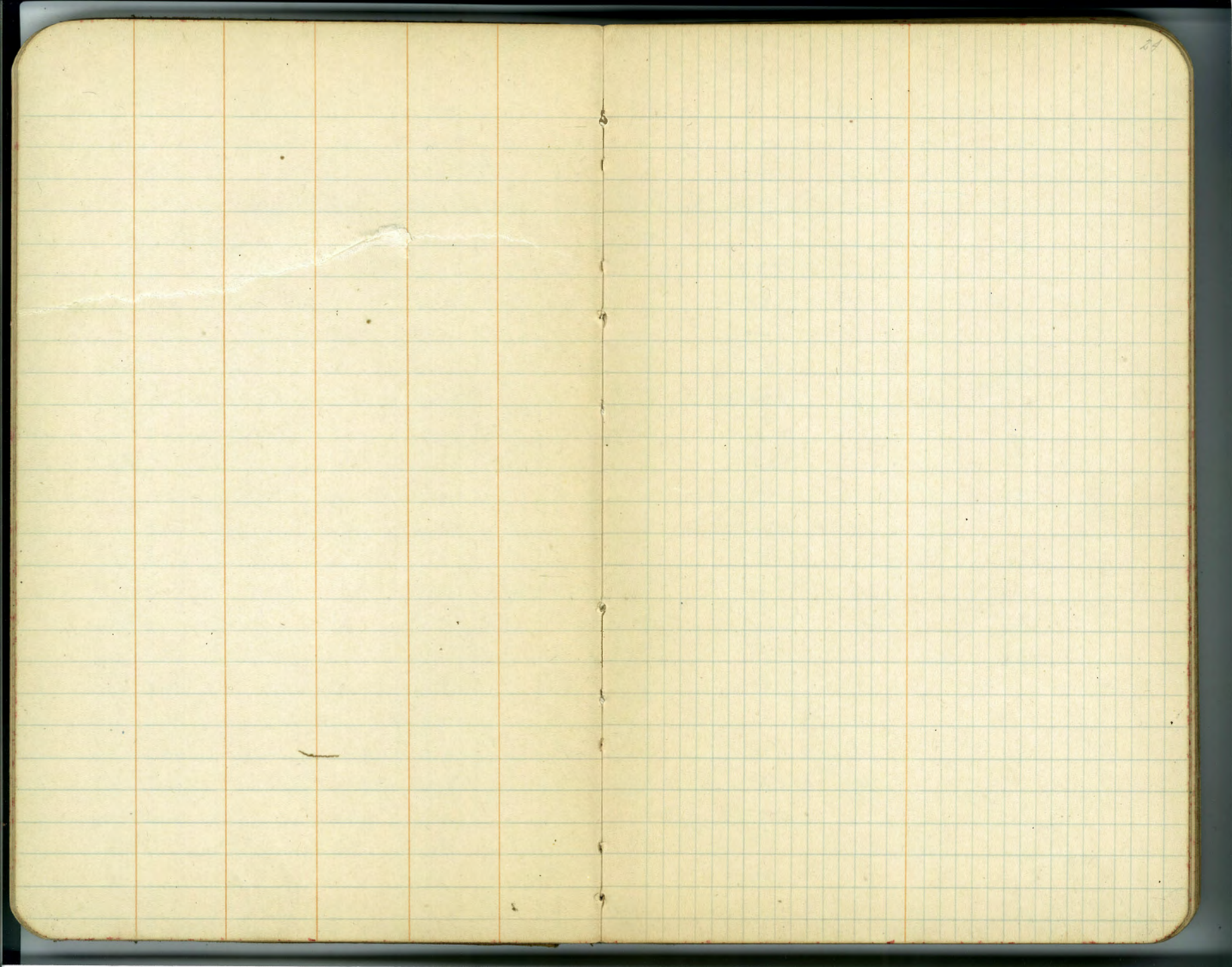
58.30

38

1/4			6.9	51.4
Cb			6.8	51.5
N			7.1	51.2
		394' E - N Edge Parings 0.28		
N		N Edge Parings 0.28	6.7	51.51
Cb			6.6	51.7
1/4			6.5	51.6
2			6.8	51.5
1/4			6.6	51.7
Cb			5.0	53.3
S			4.3	54.0
		401' E		
S			6.6	52.1
Cb			6.1	52.2
1/4			6.0	52.3
1.9 N Edge Parings			6.05	52.25
		408.5' E - N Edge Parings 0.28 South		
S - 0.28 Parings			5.81	52.49
B.M	397	57.38	1.89	53.11
TP	635	63.27	0.46	56.98
TP	593	61.89	7.31	55.91
TP	182	54.74	8.77	53.12
B.M			4.51	50.33

Next to Drill Tree
E Parings
on N. Epsilon

N End to School
Epsilon 4.20"
50.39"



Cross Section of Delta St
From 40th St to Alacia

30' x 10' x 10'
14' x 10' x 10'
18' x 10'

950

6-8-50 35

BM	572	5631	50.39	5191	63.10	40th St 60th St 10' x 10' 18' x 10'	1/4	31	64.1
TP	12.71	17.52	1.50	5191	63.10	15' x 10' x 10'	1/4	38	63.7
BM			4.43	63.10			cb	45	63.0
						40th St	S	47	62.6
H			0.0	67.5				50	62.3
cb			1.6	66.8			S	52	62.3
17			2.6	64.9			cb	45	63.0
14			2.9	64.6			1/4	41	63.4
18			3.6	63.9			1/4	40	63.5
2			3.7	63.8			1/4	35	64.0
1/4			3.2	63.6			cb	29	64.6
cb			4.1	63.4			H	19	65.6
S			4.5	63.0				1/4	
							H	22	65.3
S			1.1	67.9			cb	29	64.6
cb			1.1	63.1			1/4	27	63.8
1/4			4.0	63.5			1/4	41	63.4
2			3.8	63.7			1/4	43	63.2
1/4			3.2	64.3			cb	48	62.7
1.6			3.1	64.2			S	52	62.3
cb			1.8	65.7				H cb	
H			0.2	67.3			S	52	62.7
							cb	48	62.7
N			1.7	65.8			1/4	47	62.8
cb			2.0	64.9			1/4	43	63.7

Delta

1752

71	39	63.6
+6	40	63.5
49	33	64.2
cb	31	64.4
H	26	64.9
142.40 ¹⁵		
71	27	64.8
cb	33	64.2
+4	33	64.2
+6	42	63.3
71	42	63.3
2	46	62.9
71	48	62.7
cb	50	62.5
5	50	62.5
150.71		
5	56	61.9
cb	55	62.0
+6	56	61.9
+7	59	61.6
71	55	62.0
2	52	62.3
71	52	62.3
+6	57	61.8
+10	46	62.9
cb	45	63.0

31

1752

N	41	63.4
100.71		
N	52	62.3
cb	58	61.7
+4	58	61.7
+6	65	61.0
+10	65	61.0
71	60	61.5
23	57	61.8
2	60	61.5
71	60	60.9
27	71	60.4
18	66	60.9
cb	67	60.8
5	68	60.7
150.71		
5	81	59.1
cb	76	59.9
+5	75	60.0
+9	80	59.5
71	76	59.9
2	70	60.5
71	71	60.4
+6	75	60.0
+9	60	61.5
cb	59	61.6

Delta

67.52

N	61	61.4
	200'N	
N	71	60.4
cb	74	60.1
+1	77	59.8
+7	82	58.6
1/4	85	59.0
2	85	59.0
1/4	89	58.6
+7	97	57.8
+9	20	58.5
cb	91	58.4
S	92	58.2
	250'N	
S	110	56.5
cb	109	56.6
+5	107	56.8
+8	112	56.3
1/4	10.6	56.9
2	10.0	57.5
1/4	100	57.5
+7	98	57.7
cb	88	58.7
N	85	59.0
TP	220	58.22
	1150	56.02
	300'N	

58.22

N	119	57.03	oo guard walk
cb	17	56.5	
+2	17	56.8	Small Palm Trees
+6	27	55.5	(15.5.11)
1/4	28	55.4	
2	28	55.4	
1/4	35	54.7	
+7	41	54.1	32.5' house Cook Walk 5.1.1
+8	24	54.8	
cb	24	54.8	
S	38	54.4	
	350'N		
S	57	52.5	
cb	56	52.6	
+5	55	52.7	
+7	59	52.3	
1/4	55	52.7	
2	47	53.5	
1/4	52	53.0	
+7	52	53.0	
+11	40	54.2	
cb	38	54.4	
1/4	36	54.6	
	400'N		
N	57	52.5	
cb	60	52.2	

37

Delta

5822

+3		60	52.2
+6		67	51.5
1/1		66	51.6
S		61	51.6
1/1		67	51.5
Cb		72	51.0
S		75	50.7
	450'H		
S		84	49.8
Cb		81	50.1
+6		78	50.5
+8		84	49.8
1/1		79	50.3
S		71	51.1
1/1		76	50.6
+7		80	50.7
+10		72	51.0
Cb		72	51.0
N		73	50.9
	500'H		
N		86	49.6
Cb		82	49.5
+7		88	49.3
1/1		89	49.3
S		84	49.6
1/1		90	49.4

5822

28

+5		94	48.8
+7		88	49.4
Cb		91	49.1
S		92	49.0
	550'H		
S		102	48.0
Cb		102	48.0
+7		101	48.1
+8		106	47.6
1/1		103	47.9
S		95	48.7
1/1		101	48.1
Cb		98	48.4
N		93	48.9
	600'H = FL		
N		107	47.5
Cb		106	47.6
+3		106	47.6
+5		113	46.9
+8		112	47.0
1/1		107	47.5
S		107	47.5
1/1		111	47.1
+6		114	46.8
+7		110	47.2
Cb		114	46.8

540'H 00HL
Concret
3.48

Delta

5822

S		11.2	47.0
	ECU		
S		11.5	46.7
cb		11.5	46.7
+6		11.4	46.8
+9		12.2	46.0
1/4		11.8	46.4
Z		10.7	47.5
1/4		11.1	47.1
58		11.5	46.7
+11		10.6	47.6
cb		10.7	47.5
H		11.0	47.2
	E 1/4		
H		11.3	46.9
cb		11.4	46.8
+6		11.6	46.6
1/4		11.2	47.0
Z		11.1	47.1
1/4		11.1	46.6
cb		12.2	46.0
S		12.1	45.8
	Z 39"		
S		12.4	45.8
cb		12.1	46.1
1/4		11.7	46.5

5822

29

Z		11.4	46.8
1/4		11.3	46.9
+7		11.6	46.6
cb		11.7	46.5
H		11.2	47.0
	H 1/4		
H		11.6	46.6
cb		11.7	46.5
+7		11.7	46.5
1/4		11.4	46.8
Z		11.4	46.8
1/4		12.0	46.2
cb		12.6	45.6
S		12.8	45.4
	Hcb		
S		12.1	45.1
cb		12.5	45.7
+8		12.6	45.6
1/4		12.3	45.9
Z		11.5	46.7
1/4		11.6	46.6
cb		12.0	46.2
+8		11.5	46.7
H		11.6	46.6
	W.L. 39m St.		
H		11.3	46.9

Delta

5822

cb			117	46.5	
+6			117	46.5	
+7			121	46.1	
14			118	46.4	
2			116	46.6	
14			124	45.8	
+5			126	45.6	
cb			125	45.7	3' N.W. 139 Elec Pole
5			136	44.6	167' SW
TP	143	47.10	120.5	46.17	36' N.W. 301 6.5' N.E. Oliver Tree 1' Diam
		50' N			
N			10	46.6	
+6			10	46.6	59' N.W. 6.5' N.E. Oliver Tree 1' Diam
cb			14	46.2	
71			15	46.1	
2			15	46.1	
14			17	45.9	
+4			20	45.6	
+6			15	46.1	
cb			20	45.6	
5			24	45.4	
		100' N			
5			25	45.1	
cb			24	45.2	
+6			22	45.4	
+7			21	45.0	

4760

14			23	45.3	
7			18	45.8	
2			17	45.9	95' N 7' N.E. oliver tree
14			20	45.6	
76			23	45.3	
+10			16	46.0	
cb			15	46.1	107' N 6.5' N.E. Paper Tree 2' Diam
H			17	46.5	
		150' N			
H			22	45.4	115' N 7' N.E. Paper Tree 2' Diam
+6 oliver tree			23	45.3	
cb			23	45.3	
+5			23	45.3	
+9			23	43.3	130' N 6.5' N.E. oliver tree
7			28	44.8	
+6			29	44.7	
2			26	45.0	
14			30	44.6	
+8			31	44.2	
+9			27	44.9	
cb			29	44.7	
+2.5' Elec Pole			25	44.1	
5			25	44.1	
		200' N			
5			38	43.8	
cb			37	43.9	
+1			38	43.8	
16			25	43.1	

Delta

47.60

74	41	43.5	
72	40	43.6	
74	40	43.6	180' W 07 N L Conc. 70' W 77'
77	40	43.6	
49	32	44.4	3 Palms 12.5' W L
cb	31	44.5	
H	30	44.6	
			250' W
H	41	43.5	
cb	42	43.4	
72	47	42.9	
77	53	42.3	
74	51	42.5	
72	52	42.4	
74	52	42.4	
78	57	41.9	
710	49	42.7	
cb	49	42.7	
S	49	42.7	
			300' W
S	67	40.9	
cb	67	40.9	
73	67	40.9	
75	72	40.4	
74	67	40.9	
2	62	41.3	

47.60

74	66	41.0	
75	68	40.8	325' W to S.E. Conc. 70' W 77'
79	55	42.1	
cb	54	42.2	
H	52	42.4	
			350' W
H	61	41.5	
cb	61	41.5	
73	61	41.5	
78	81	39.5	
74	77	39.9	
74	76	40.0	
72	77	40.5	
74	76	40.0	
77	81	39.5	
cb	80	39.6	
S	83	39.3	
			400' W
S	105	37.1	
710	106	37.0	
cb	110	36.6	
76	106	37.0	
74	90	38.6	
72	89	38.7	
74	93	38.3	
76	91	38.0	

Delta

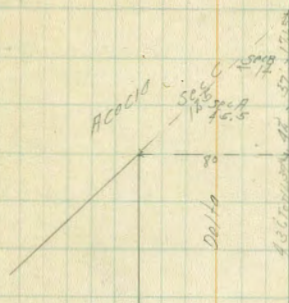
17.60

cb	71	40.2
H	73	40.3
11.2.11		
H	74	40.2
cb	75	40.1
+7	10.1	37.5
H	10.0	37.6
+7	9.5	38.1
L	9.5	38.1
H	9.9	37.7
+7	11.1	36.2
cb	11.8	35.8
+2	12.0	35.6
+4	11.6	36.0
S	11.7	35.9
13.6.11 = EL. Peccia 9.02.5		
S	13.9	34.2
+12	13.9	33.7
cb	13.6	34.0
+6	12.8	34.8
H	12.1	35.5
L	11.5	36.1
+5	11.2	36.4
H	11.7	35.9
+4	11.8	35.8
cb	9.9	37.7

17.60

32

+8	80	39.6		
H	78	39.8		
TP	51.6	40.23	12.59	35.07



Sec A		
H	26	37.6
H	31	37.1
+7	49	35.3
cb	58	34.4
L	60	34.0
H	65	33.7
L	68	33.9
+5.5 = Sec C	6.8	33.4
Sec B		
Hcb	80	32.0
+9	75	32.7
H	60	34.2
Sec C		
H	84	31.8
cb on 9.11	8.11	32.11

CH 5.7.19
9/11.20.3

Delta

40.23

63

14			81	32.1	
2			70	33.2	
14			69	33.3	
cb	oo Return		64.8	33.75	
s			59	34.3	
BM			656	33.67	SE 88 Delta 10000
TP	600	1488	135	48.88	0.77 cl 2.112 10/100
TP			171	42.12	42.13

Cross Section of 40th St.
From Delta to Division

BM	257	65.61	63.10	65.61	66	59.0
					65	59.1
		52.51/10			61	59.5
H		3.2	62.4		61	59.5
Cb		3.4	62.2		62	59.4
+5		3.4	62.2		59	59.9
+6		3.7	61.9		56	60.0
H		3.3	62.3		50	60.6
L		3.3	62.3			
H		3.0	62.6		150.5	63
Cb		2.7	62.9			67
L		2.6	63.0			74
						75
		50.5				79
L		3.8	61.8			83
Cb		4.1	61.5			86
+5		4.1	61.5			
+6		4.5	61.1			800.5
H		4.3	61.3			91
L		4.6	61.0			94
H		4.5	60.8			90
+4		4.1	60.5			88
+5		4.7	60.9			90
Cb		5.0	60.6			84
H		4.5	61.1			82
						77
		100.5				
H		6.4	59.2			

63.10
10' Cb
10' 9 1/2

13' 11/16
Delta + 40th

150.5

800.5

100.5

40th St

65.61

250'S

E	75	58.1
cb	77	57.9
+5	79	57.7
+7	90	56.6
1/4	92	56.4
2	92	56.4
1/4	97	56.2
+5	98	55.8
cb	96	56.0
H	92	56.4

285'S

H	10.1	55.5
cb	10.3	55.3
1/4	10.1	55.5
2	10.0	55.6
1/4	10.0	55.6
+4	98	55.8
+5	97	56.2
cb	91	56.5
F	89	56.7

300'S - N.L. Epsilon

F	87	57.2
cb	95	56.1
+5	100	55.6
+6	105	55.1

Gaug. & Dir. Flur
245'S 15' SW

9.2

44
2
1/4
cb
H
TP

223 - 5476

65.61

107	55.2
106	55.0
106	55.0
110	54.6
108	54.8
1308	52.53

S.L. Epsilon

H
cb
1/4
2
1/4
cb
F

24	52.4
21	52.7
19	52.9
17	53.1
20	52.8
15	53.3
10	53.8

50'S

F
cb
+7
1/4
2
1/4
cb
H

30	51.8
28	52.0
29	51.9
32	50.9
37	51.1
41	50.7
37	51.1
50	49.8

75'S

H
+3

57	49.1
63	48.5

Cb	57	49.1
1/4	57	49.1
Z	53	49.5
1/4	52	49.6
+2	51	49.7
+5	48	50.0
Cb	46	50.7
F	47	50.1
100'S		
F	56	49.7
Cb	57	49.1
+6	62	48.6
+7	70	47.8
1/4	70	47.8
Z	73	47.5
1/4	78	47.0
Cb	78	47.0
+4	74	47.4
+7	64	49.4
H	64	49.4
142'S		
H	72	47.6
+3	75	47.3
Cb	10.3	44.5
+5	11.0	43.8
1/4	10.9	43.9

130'S
18' H. H. L.
Top Conc. Stop
600

Conc. Entrance
to Balboa School
500

Z	10.3	44.5
1/4	9.8	44.9
Cb	9.8	44.9
F	10.0	44.8
110'S		
F	10.6	44.7
Cb	10.8	44.6
1/4	10.5	44.3
+2	11.2	43.6
Z	11.5	43.3
1/4	11.6	43.2
1/4	12.5	42.3
Cb	12.8	42.0
H	12.2	42.6
125'S		
H	15.3	43.5
Cb	15.2	43.6
1/4	14.0	44.8
Z	12.6	42.2
+7	12.5	42.3
1/4	11.7	43.1
+6	10.7	44.1
Cb	10.5	44.3
F	10.6	44.2
TP	1.29	42.10
13.39		
12.66		
600'S		

40th St

43.39

F	17	41.7
Cb	13	42.1
+1	15	41.9
1/4	22	41.2
+5	28	40.6
2	26	40.8
1/4	35	39.9
Cb	47	38.7
+3	50	38.4
1/4	48	38.6
225'S		
1/4	57	37.7
Cb	68	37.6
1/4	50	38.4
2	41	39.3
1/4	45	38.9
+3	43	39.1
+5	36	39.8
Cb	28	40.0
F	41	40.3
250'S		
F	52	38.7
Cb	52	38.2
+5	53	38.1
+6	62	37.2
1/4	60	37.4

43.39

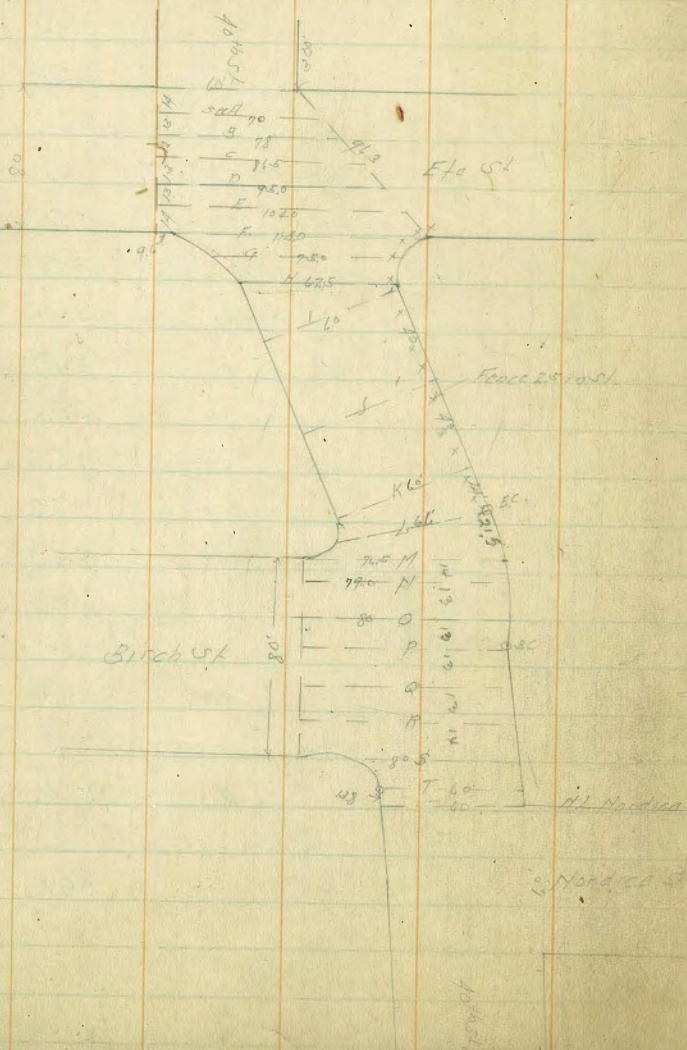
37.1

2	58	37.6
+4	65	36.9
1/4	63	37.1
Cb	68	36.6
+5	70	36.4
+6	80	35.4
1/4	72	36.2
280'S		
1/4	82	35.2
+5	83	35.1
1/4	90	34.4
Cb	86	34.8
+7	79	35.5
1/4	81	35.3
+6	76	35.8
2	77	35.7
1/4	76	35.8
+2	77	35.7
+5	63	37.1
Cb	59	37.5
F	60	37.4
300'S - N. 1/4 E		
F	80	35.4
Cb	86	34.8
1/4	90	34.4
2	90	34.4

40th St

13.39

H		9.5	33.9
cb		9.1	34.3
H		8.9	34.5
B.M.	0.10	38.53	49.1
			38.43

H.V. Pipe
Elev 40.10

38.53

38
6.9.21

Sec 7	70	11.6 Obs. Qts
H	1.5	35.0
cb	1.1	34.1
H	5.1	33.4
H	5.7	32.8
cb	5.1	33.4
H	5.2	33.3
cb	5.3	33.2
H	5.8	33.3
Sec 8	78	13' Obs. Qts
H	7.1	31.4
cb	7.0	31.5
H	6.6	31.9
cb	6.2	32.7
H	6.4	32.1
H	5.1	33.1
cb	4.9	33.6
H	4.3	34.7
H	3.2	35.7
Sec C	86.5	14.1 Obs. Qts
H	3.2	35.3
cb	4.8	33.7
H	5.4	33.1
H	6.0	32.5
cb	6.8	31.7
cb	6.8	31.7

38.53

+7	71	31.4
+10	77	30.8
1/2	78	30.7
Cb	80	30.5
F	76	30.9
	Sec D 75	5.75 Cb + Q1
E	78	30.7
Cb	81	29.9
+9	91	29.4
1/4	89	29.6
Z	80	30.5
+13	75	31.0
1/4	71	31.4
Cb	52	33.3
X	26	34.9
	Sec E 104	17.35 Cb + Q1
X	30	35.5
Q1	50	33.5
1/2	73	31.7
+8	77	30.8
+9	80	30.5
Z	83	30.7
1/4	83	30.2
+8	92	29.3
1/4	98	28.7
Cb	92	29.3

38.53

F	78	30.7
	Sec F 114	19 Cb + Q1
	71	31.4
Cb	95	29.0
	99	28.6
	100	28.5
	96	28.5
	88	29.7
	88	29.7
	89	29.6
	79	30.6
	77	30.8
	62	32.3
Cb	47	33.8
X	25	36.0
	Sec G 75	12.5 Cb + Q1
X	55	33.0
	63	32.7
Cb	82	30.3
	89	29.6
	91	29.4
Z	94	29.1
1/4	102	28.3
	102	28.3
Cb	78	28.7
F	85	30.0

	Sec H	125	20' Ch 1 x 91'
E		7.5	29.0
+7		10.4	28.1
+8		10.9	27.6
cb		11.2	27.3
14		11.1	27.4
+6		10.7	27.8
2		10.0	28.5
14		9.9	28.6
+5		10.2	28.2
+6		9.2	29.3
cb		9.4	29.1
+3		9.2	29.3
+6		7.5	31.0
11		6.8	31.7
	Sec J	60'	10' Ch 1 x 91'
11		7.5	31.0
+1		8.5	30.3
+7		9.8	28.7
cb		9.7	28.6
+1		9.8	28.7
+5		10.8	27.7
14		10.6	28.1
2		10.3	28.4
+5		11.1	27.8
14		11.3	27.2

	cb	11.2	27.3
	+3	11.1	27.4
	+5	10.5	28.0
	E	9.5	29.0
	Sec J		
	E	10.7	27.8
	+8	11.5	27.0
	cb	12.2	26.2
	14	13.0	25.5
	2	12.5	26.0
	14	11.8	26.7
	14	12.2	26.3
	+5	11.9	26.6
	+6	12.7	25.8
	cb	11.8	26.7
	+1	11.9	26.6
	16	10.0	28.5
	11	9.6	28.9
	Sec K		
	11	12.2	26.3
	11	12.60	25.23
	11	15	25.0
	cb	4.7	25.1
	14	4.8	25.0
	2	5.6	24.2
	14	5.1	24.7

40th St.

2776

Cb	45	253
F	25	273
	Sec 66	11 Cbs + Q1s
F	28	270
78	36	262
Cb	53	245
14	65	233
78	66	232
2	60	238
15	54	244
14	52	246
Cb	51	247
16	42	256
77	35	263
11	33	265
	Sec 11	125 Cbs + Q1s
11	30	268
110	36	262
Cb	41	254
78	50	248
14	55	243
2	55	243
16	71	227
14	74	224
Cb	70	228
F	55	243

2774

	Sec 11	77	1311 Cbs + Q1s
F	75	223	
Cb	82	216	
77	89	209	
14	78	220	
2	59	239	
14	57	241	
11	53	245	
Cb	40	258	
11	32	266	
	Sec 10	75.5	1325 Cbs + Q1s
11	32	260	
Cb	42	250	
14	61	237	
2	60	238	
16	65	233	
14	80	218	
Cb	90	208	
78	90	208	
F	82	216	
	Sec 10	80	1332 Cbs + Q1s
F	91	207	
Cb	94	202	
16	89	209	
14	78	220	
78	71	227	

4016 St.

2976

z	6.4	234
1/4	6.0	238
cb	4.7	251
x	3.8	260

Sec Q 80

17A	3.7	261
cb	4.9	249
1/4	6.8	230
110	7.7	225
z	7.5	223
1/4	8.1	217
cb	9.6	207
E	9.5	203

Sec P

E	12.0	174
1/4	12.3	175
1/6	10.2	196
cb	10.1	197
1/4	8.9	209
z	8.6	212
110	8.1	217
1/4	7.8	226
1/8	6.5	232
cb	5.8	231
1/4	4.9	249

Sec W 80 13.21 Chrs 9/15

on Conc. Block
Back Stone

2874

1/4	6.0	238
cb	7.2	246
1/4	8.3	215
z	9.4	204
1/4	9.9	199
cb	10.2	196
1/5	11.6	187
1/8	11.1	187
1/9	12.7	171
E	12.6	172

Sec T

6.0	10' Chrs 20/15	
E	13.0	168
1/4	13.4	164
1/5	12.1	177
1/7	12.5	173
cb	11.8	180
1/6	11.0	188
1/4	11.3	185
z	11.1	187
1/4	10.7	191
cb	10.5	193
1/4	10.1	197
TP	11.5	21.55
12.36	17.60	
11.2 Nordica		
N	7.2	193
cb	3.3	183

Nordica
6' wide
10' Chrs
10' Chrs

1/4	36	18.0
8	36	18.0
1/4	42	17.4
7+5	40	17.6
cb	48	16.8
F	49	16.7
on Conc Walk front Store	49	17.36
	H.Cb	
F	51	16.5
+5	55	16.1
cb	48	16.8
+5	46	17.0
1/4	50	16.6
+3	45	17.1
8	42	17.4
1/4	41	17.5
cb	40	17.6
+2	33	18.3
H	29	18.7
	H 1/2	
H	38	17.8
cb	42	17.3
+2	51	16.5
1/4	48	16.8
2	47	16.9
1/4	50	16.6

cb	54	16.7
L	55	16.1
	H Hardica	
F	57	15.9
cb	55	16.1
1/4	53	16.3
8	51	16.5
1/4	52	16.4
+8	56	16.0
cb	53	16.2
H	48	16.8
	5 1/4	
H	58	15.8
cb	58	15.8
1/4	56	16.0
8	55	16.1
1/4	56	16.0
cb	59	15.7
F	61	15.5
	5 Cb	
F	62	15.4
cb	62	15.4
1/4	58	15.8
8	58	15.8
1/4	60	15.6
cb	61	15.5

90th St.

21.55

H	62	15.4
	SL Nordica	
H	61	15.2
cb	63	15.3
H	62	15.3
L	58	15.8
H	61	15.5
+9	62	15.4
cb	61	16.5
E	51	16.5
	50.5	
E	59	15.7
cb	58	15.8
+8	61	15.2
H	63	15.3
L	61	15.7
H	64	15.2
cb	63	15.3
H	63	15.3
	100.5	
H	65	15.1
cb	65	15.1
H	62	14.9
L	65	15.1
H	64	15.2
+9	68	14.8

21.55

cb	62	15.3
E	63	15.3
	150.5	
E	66	15.0
cb	66	15.0
+8	70	14.6
H	67	14.9
L	67	14.9
H	65	15.1
+5	70	14.6
cb	68	14.8
H	69	14.7
	180.5 = P.C. on E	
H	71	14.5
cb	68	14.8
H	70	14.6
L	68	14.8
H	69	14.7
+6	72	14.4
cb	67	14.9
E	69	14.7
TR	633	15.22
	1981	
	Sec A' 670	cb 1910 14.8
E	52	14.6
cb	51	14.7
+3	55	14.3

Fence 35.25 St.

Nail pole
SAC from road
90th St.

1981

H	58	14.0	H	55	14.3
	Sec F 103.1	Obs + Qts 17.2		52	14.6
H	55	14.3		50	14.8
Cb	52	14.6		51	14.7
H	50	14.8		53	14.5
L	51	14.7		49	14.9
H	53	14.5		17	15.1
Cb	49	14.9		Sec G 101.8	Obs + Qts 17
F	17	15.1		51	14.7
				52	14.6
F	51	14.7		52	14.6
Cb	52	14.6		53	14.5
H	52	14.6		62	13.6
H ⁵	53	14.5		85	11.3
L	62	13.6		91	10.7
7.7	85	11.3		89	10.9
H	91	10.7		92	10.6
Cb	89	10.9		Sec H 101	Obs + Qts 16.82
H	92	10.6		77	12.1
				69	12.9
H	77	12.1		74	12.5
+10	69	12.9		86	11.2
Cb	74	12.5		89	10.9
H	86	11.2		72	12.6
+6	89	10.9			
L	72	12.6			

1981

	53	14.5		51	14.7
	47	15.1		46	15.2
	46	15.2		Sec I 99.5	Obs + Qts 16.4
	45	15.3		48	15.0
	48	15.0		50	14.8
	46	15.2		46	15.2
	79	11.9		82	11.6
	82	11.6		45	15.3
	45	15.3		45	15.3
	50	14.8		50	14.8
				Sec J 68	Obs + Qts 16.33
				48	15.0
				45	15.3
				55	14.3
				49	14.9
				90	10.8
				95	10.3
				40	15.6
				45	15.3
				49	14.9
				46	15.2
				Sec K 60	Obs + Qts 10

40/45

K

1981

Z	40	151
cb	59	154
1/4	72	106
1/7	72	106
Z	13	15.5
1/4	11	157
cb	49	149
72	44	15.4
H	44	15.2
TOP Cine Hall east L	436	15.45
	15.5 of Sack	
H	47	151
cb	43	155
1/4	11	15.4
Z	44	15.4
75	45	15.3
1/4	59	13.9
75	81	11.7
cb	88	11.0
72	82	11.1
F	42	15.0
7	57	12.4
F	80	11.8
75	82	11.6
cb	46	15.4
1/4	50	14.8

41

1981

42	41	15.4
Z	41	15.4
1/4	43	15.5
cb	43	15.8
H	40	15.2
	45	15.3
cb	42	15.6
1/4	41	15.4
Z	42	15.6
1/4	46	15.2
cb	49	14.9
75	52	14.6
1	72	12.6
710	77	12.1
	51	14.7
F	55	14.3
cb	46	15.2
1/4	41	15.7
Z	40	15.8
1/4	41	15.7
cb	40	15.8
H	41	15.7
	41	16.4
H	41	16.4

41.5

53.5

57.5 00.00
90.00 20.11
41 15.11

73.5

00 Cine Hall

19.81

cb		3.0	16.4
+2	7	4.0	15.8
1/4		3.5	16.3
2		3.2	16.6
1/2		3.1	16.7
1/4		3.6	16.2
cb		3.9	15.9
F		4.1	15.7
-7	100'S	3.59	16.22
F		3.6	16.2
cb		3.3	16.5
+2		3.3	16.5
1/4		2.1	17.7
+3		1.9	18.4
2		1.5	18.3
1/4		1.8	18.0
+8		2.2	17.1
cb		2.3	17.5
1/4		2.0	17.8
on Top One Wall		1.23	18.58
	18'S		
on One Wall		0.53	19.28
W		0.5	19.3
cb		0.6	19.2
1/4		1.0	18.9
TP	11'SS	0.59	19.21
1/4		1.08	20.0

30.79

2		10.3	20.5
18		10.6	20.2
1/4		11.5	19.3
+2		12.9	17.9
+5		11.1	19.4
cb		13.4	17.4
F		13.9	16.9
+10		14.2	16.6
	161'S		
-10		12.2	18.6
F		10.8	20.0
+5		8.8	22.0
cb		8.0	22.8
+2		10.4	20.4
1/4		8.4	22.4
1/4		7.2	22.9
2		7.1	23.7
1/4		7.5	23.3
+5		7.5	23.3
cb		8.3	22.5
+3		7.6	23.2
W		7.5	23.3
	186'S		
W		4.0	26.8
1/4		4.7	26.4
cb		5.1	25.4
+5		4.9	25.9

30.79

1/4	15	259
2	15	260
1/4	51	257
18	57	251
cb	72	236
1/4	82	276
1/6	58	250
5	67	241
110	93	215

200's

-10	76	232
5	43	265
+2	12	266
+4	18	240
+7	74	234
cb	62	246
+2	41	267
1/4	34	274
2	34	274
1/4	36	272
1/6	37	271
15	45	263
cb	29	279
+2	23	285
1/4	22	286
TP	111	278

1262

1230

42.30

42.30

225.0

11	103	320
18	102	321
cb	109	314
11	131	292
15	120	303
1/4	116	307
1/4	116	307
1/4	114	309
cb	121	302
11	152	271
17	151	272
1/6	119	304
5	120	303

250's

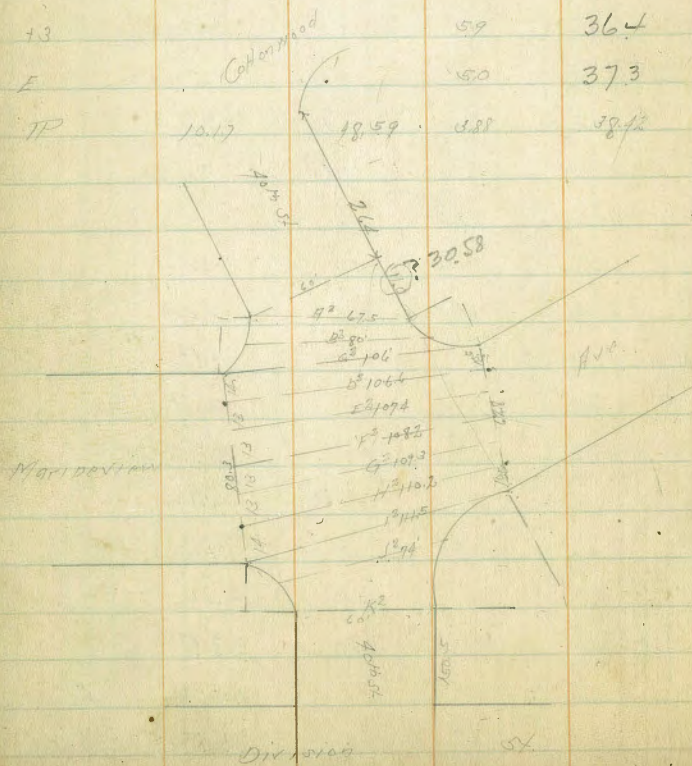
1	79	344
15	80	343
17	105	318
19	106	317
cb	88	335
1/4	83	340
2	83	340
1/4	82	341
18	81	335
cb	71	347
11	68	355

40th St

9/23/30

267 S = P.C. only

14	51	372		
15	55	367	177.505 L	
16	70	353	9409. Conc. 1/4	
17	66	357	400	
18	63	360		r
19	67	356		
20	64	359		
21	63	340		
22	87	336		
23	59	364		
24	50	373		
25	10.17	18.59	381	38.4



48.59

50

48.59

Spec B ²	62.5	Obs. 9/11 11.25
	7.5	41.1
	9.2	39.4
	10.5	38.1
	9.7	38.9
	10.4	38.2
	10.9	37.7
	11.6	37.0
	12.7	35.9
	11.3	37.3
	11.5	37.1
Spec B ²	80	Obs. 9/11 13.22
	6.8	41.5
	9.8	38.8
	9.8	38.8
	11.5	37.1
	10.5	39.1
	9.9	38.7
	9.0	39.6
	8.7	39.9
	9.2	39.4
	7.7	40.9
	6.0	41.6
Spec C ²	106	Obs. 9/11 12.7
	4.7	43.86
	6.0	41.4

Eoo Conc Walk

cb

40654

1859

7.11	7.8	40.8
7.11	9.1	39.5
7.11	8.5	40.1
8	9.5	39.1
7.11	10.2	38.4
7.4	11.1	37.5
7.8	9.5	39.1
cb	9.1	39.0
7.7	5.9	42.7
7.11	5.8	42.8
Sec D ² 106.5 Obs + 96.120.5		
7.11	6.6	42.0
cb	7.4	41.2
7.2	8.1	40.5
7.16	8.5	40.1
7.4	9.8	38.8
7.3	8.8	39.8
8	8.5	40.1
7.16	7.7	40.9
7.4	8.0	40.4
cb	6.3	42.3
F	5.1	43.5
Sec E ² 102.4 Obs + 96.129		
F	4.6	44.0
cb	6.0	42.6
7.4	6.6	42.0

1859

57

2	7.5	41.1
7.4	8.0	40.6
7.2	9.4	39.2
7.11	7.2	41.4
cb	6.3	42.3
7.11	5.9	42.7
Sec F ² 108.2 Obs + 96.18		
7.11	5.4	43.2
cb	6.0	42.6
7.4	7.0	41.6
8	6.8	41.8
7.4	6.5	42.1
cb	5.4	43.2
F	5.9	44.7
Sec G ² 102.2 Obs + 96.18.2		
F	4.7	44.9
cb	5.0	43.6
7.4	6.2	42.4
8	6.2	42.4
7.4	6.4	42.2
5.9	6.9	41.7
cb	6.0	42.6
7.11	5.6	43.0
Sec H ² 110.2 Obs + 96.18.5		
7.11	5.9	42.7
7.6	6.3	42.3
cb	6.1	42.5

9854

4859

74		63	42.3
Z		60	42.6
74		59	42.7
cb		57	43.2
+13		48	43.5
F		36	45.0
	Sec 2	115	cb + qtz 18.1
F		42	45.7
cb	on stalk	47	43.9
74		61	42.5
75		69	41.7
Z		58	42.8
74		60	42.6
cb		60	42.6
+3	on Conc stalk	52	43.4
714		51	43.5
71		38	44.8
	Sec 2	74	cb + qtz 12.3
71		50	43.6
72		53	43.3
cb		60	42.6
74		59	42.7
Z		54	43.2
74		59	42.7
710		61	42.5
cb		56	43.0
710		59	43.2

4859

F		41	44.2
	Sec 2	60	cb + qtz 10
		50	43.6
		53	43.2
		52	43.4
		62	42.4
		55	43.1
		51	43.5
		55	43.1
		58	42.8
		52	43.33
		52	43.4
		47	43.9
		52	Sec 2
		39	44.7
		42	44.2
		47	43.9
		55	43.1
		48	43.8
		44	44.2
		49	43.8
		54	43.2
		45	44.1
		40	44.6
		100	5
		39	45.7

467651

18.59

cb	37	44.9
71	44	44.2
74	37	44.9
2	35	45.1
14	39	44.7
19	48	43.8
cb	42	44.4
H	36	45.0

150.55 = N.L. DIVISION

H	31	45.5
cb Tap Case	32.8	45.31
Gutter	38	44.8
74	34	45.2
2	29	45.7
74	30	45.6
Gutter	31	45.5
cb Tap Case	23.7	46.22
E	22	46.4
B.M.	11.2	46.6

 N.L. DIVISION
 4 2015
 11.81

Cross Section of Nightmen
From Pershing to 28th St.

60' wide
10' chgs
10' Q's

348.37

617.26
50' wide
5' chgs
5' Q's

				17' Chgs 10' Q's		
					63	342.1
BM	3.11	350.79	316.05		66	341.8
TP	3.11	348.27	52.6	395.23	68	341.6
		E.L. Pershing Ave			75	341.0
S		9.2	339.2		75	340.9
Cb on Top Case		9.11	338.96		73	341.1
Gutter Top Parap		10.10	338.27		70	341.4
"		10.0	338.4		68	341.6
"		9.8	338.5		67	339.7
"		10.1	338.0		66	339.8
Gutter "		11.2	337.2		73	341.1
Cb on Top Case		10.50	337.87		69	341.5
N		10.2	338.2			
		5'E				
N		8.0	340.4		66	342.2
Cb		7.7	340.7		63	342.1
+5		9.2	339.2		73	341.1
+7		9.2	339.1		70	341.4
"		8.0	340.4		56	342.8
"		8.3	340.1		63	342.1
"		8.5	339.9		61	342.3
+1		8.2	340.2		63	342.1
+7		6.8	341.6		68	342.2
Cb		6.8	341.6		57	342.7
S		6.2	342.1		56	342.8
					53	342.9

15'E

100'E

Wightman

348.37

56

S	48	343.6	out of Conc. Path 2' to 3' thick	2
Cb	48	343.6	396 11' Exc. in W.	14
1/4	51	343.3		7.5
2	52	343.2		18
7/16	50	343.4		Cb
1/4	48	343.6		71
7.5	45	343.9		N
Cb	69	341.6		
7.2	69	342.1		N
7.3	57	343.3		49
N	50	343.4		Cb
				42
N	40	344.4		1.5
Cb	44	344.0		14
7.2	51	342.6		2
7.3	57	342.7		14
7.5	48	344.6		Cb
1/4	43	344.1		5
2	42	344.2	178' E. of Jk Conc. Path 356	
1/4	42	344.2		5
Cb	40	344.4		Cb
S	42	344.1		14
				2
S	42	344.2		77
Cb	42	344.0		1.5
1/4	44	344.0		49

130' E

150' E

348.37

43	344.1
36	344.8
37	344.7
57	342.7
57	342.7
43	344.1
41	344.3
39	344.5
42	344.2
54	343.0
55	342.9
33	345.1
41	344.3
43	344.1
43	344.1
42	344.2
43	344.9
35	344.9
38	344.6
38	344.6
38	344.6
33	345.1
32	345.2
53	343.1

175' E

200' E

cb	52	343.2
+2	35	344.6
H	36	344.8
225E		
H	35	344.9
+7	34	345.0
cb	41	344.0
+1	53	343.1
+2	53	343.1
+5	30	345.4
74	25	344.9
Z	37	344.7
74	36	344.8
cb	32	345.2
S	33	345.1
253E		
S	35	344.9
cb	33	345.1
74	38	344.6
Z	40	344.4
74	33	345.1
+5	39	345.5
+7	47	343.7
cb	45	343.9
+3	31	345.3
N	32	345.2

190 East St
Gardner St
37

H

cb on Case

Gutter Top Parings

74

Z

74

Gutter

cb on Case

S

255 SE 1/4 28th St

H	40	344.0
cb on Case	438	343.99
Gutter Top Parings	510	343.27
74	476	343.61
Z	469	343.68
74	481	343.46
Gutter	522	343.05
cb on Case	470	343.67
S	45	343.9

Hard Place

368.66
~~4578~~

Z		28	365.8	218.5000
H		29	365.8	Concept 303
		251.8 S		
H		13	364.4	
Z		10	364.7	
F		18	363.9	
		251.8 00E		
		211.7 00W		
F		18	363.9	
Z		39	364.8	
H		40	364.7	
		300'S		
H		58	362.9	
Z		67	362.0	
H		75	361.2	
F		53	363.4	
		357.3 S		
F		76	361.1	
H		122	356.5	
Z		121	356.6	
H		119	357.0	
TP	113	124	356.25	
			357.32	
		40'S		
Z		16	352.8	
		400'S		
Z		72	349.5	
		485 P.L. of Hard Place		
Z		98	348.6	

357.38
~~45145~~

88

		500'	
		91	348.0
		550'	
		118	345.6
		600'	
		140	343.4
		85'	
		50 N of 485	
		11.1 70'	350.4
		100' N	
		47	352.7
		150' N	
		20	355.4
		200' N	
		20	357.2

Cross Section of Alley Block 2 University Place
 Between Robinson + Essex St. Richmond + Herbert

29874

14.3.26
 3.5.26
 3.15.26
 Northern

Level	Height	Station	Notes	Level	Height	Notes
		145.5 Alley 18' side			38	94.9
B.M.	4.9	298.74 ✓	S.W. S.P. Robinson + Richmond		3.6	95.1
		N.L. Robinson	Alley Returns End of S.W. S.P.			
		18				
		493.9				
		5.1				
		93.6				
		5.0				
		93.7				
		10.1				
		4.5				
		94.1				
		4.6				
		94.1				
		4.5				
		94.1				
		5.0				
		95.0				
		3.7				
		94.7				
		4.0				
		94.7				
		4.0				
		94.7				
		7.5				
		3.8				
		94.9				
		3.8				
		94.9				
		3.52				
		95.2				
		3.4				
		95.3				
		2.81				
		95.9				
		1.00				
		3.3				
		95.6				
		4.0				
		94.7				
		4.0				
		94.7				
		1.27.71 - 16.00 E				
		4.3				
		94.4				

PLOTTED

Garage 1st Floor

East + West Alley Block 2 Univ. Place 18' side

0.0 - N.L. N.S. Alley

9' E

18' E - E.L. N.S. Alley

38' E - E.L. on S

Fence 15' N Alley

50' E

ICE
 25' N.P.L.
 Garage 1st Floor
 5.11 93.0

293.30.1

89.7

88.4

88.1

88.5

29645

+4		0.1	789.0
S		7.1	88.8
	Top Coop Hall	15.5	89.93
	70'E		
	E end Coop Hall	7.28	88.67
S		10.9	85.5
Z		10.5	86.0
N		10.6	85.9
+5		9.3	87.1
	80'E		
-5		9.5	87.0
N		11.2	85.2
Z		11.3	85.1
+4		11.4	85.0
S		12.5	84.0
+2		16.1	80.3
	100'E		
-3		12.2	79.3
S		13.3	83.1
+4		12.1	84.3
Z		14.9	84.5
N		13.1	84.3
+5		9.7	86.7
	113'E		
-5		9.2	77.3
N		10.4	86.0

29645

Z		10.7	785.7
N		10.9	85.5
S		12.1	84.3
+2		13.2	83.2
	122'E		
-5		11.5	85.0
S		10.6	85.8
Z		9.2	87.2
N		8.5	87.9
+5		7.9	88.5
	137'E		
N		5.4	91.0
Z		6.0	90.3
S		6.6	89.8
+4 on Hood Porch		5.1	91.3
	156'E		
-5		6.0	90.4
S		4.6	91.8
Z		4.3	92.1
N		3.8	90.6
	175'E		
N		2.1	94.0
Z		3.4	93.0
S		3.8	92.6
	200'E		
S		2.5	94.0

112'E
 24.11.6
 Dr. George Ditt
 15 feet
 21 = 92.5

27

296.95

Z			2.1	294.3		Z	1.3	297.6
H			2.3	94.2	214'E 217'N Garage Dirt Floor 1.2 74.4	S	4.3	97.6
		225'E					1.2	97.7
H			1.2	95.1	219'E on North Wall		400'E	
Z			1.8	94.6	128 94.67	S	3.5	98.4
S			1.9	94.5		Z	3.6	98.3
					229 5'11"2 Garage Dirt Floor 205/95.5	H	3.6	98.3
					on Conc. Walk		3.33	98.54
FP	6.95	301.22v	1.53	294.92v			430'E	
		2.66'E				H	3.7	98.5
	- 6' Garage Dirt Floor		6.7	95.2		Z	3.7	98.5
S			6.3	95.6		S	3.3	98.6
Z			6.6	95.3			450'E	
H	Fence 1/2 Alley		6.5	95.4		S	3.6	98.3
		300'E			313'E 3'5.5"2 Garage Dirt Floor	H	4.6	97.3
	- 4' Garage Dirt Floor		5.2	96.6	56 96.3	Z	4.6	97.3
H			5.6	96.3	325'E	H	4.6	97.3
Z			5.7	96.2	5'5.5"2 Garage Dirt Floor	H	3.8	98.1
S			5.8	96.1	5.3 96.6		465'E	
		350'E				H	4.7	97.5
S			4.8	97.1	357'E 3'4"2	H	5.5	96.4
Z			4.8	97.1	Garage Dirt Floor 39 98.0	Z	5.5	96.4
H			4.5	97.4		H	5.5	96.4
		377'E				S	4.5	97.4
	- 5' Garage Dirt Floor		4.2	97.7			468	
H			4.2	97.7			461	97.76
					509 Conc. Wall			

30187

+3	59	296.0
2	62	295.7
+5	60	295.4
H	19	291.0
on Conc Wall	181	297.06

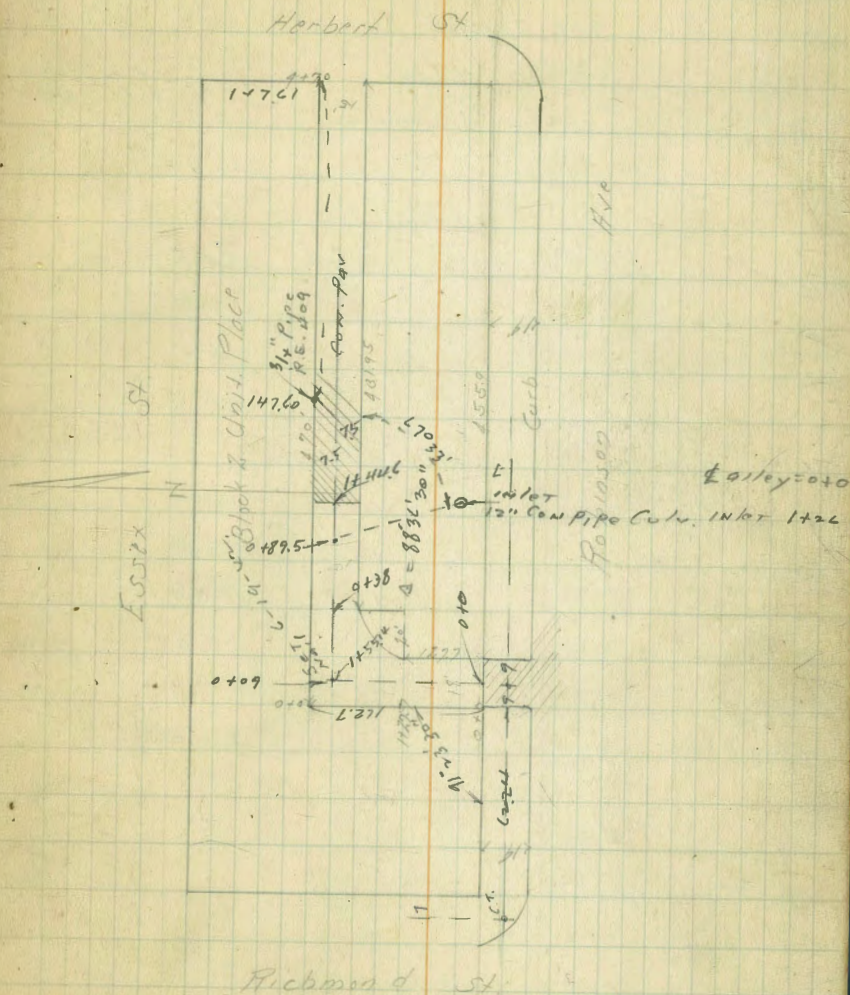
420' E - 1/4 L Herbert

H Top Paving	639	295.48		
S " "	676	295.11		
S " "	651	295.36		
Top Cb.	637	295.50		
TP	2.33	299.05	515	296.72 ✓
BN			502	299.02

NE B.P.
P. 12507
S Herbert
294.05

209

62



Cross Section of Alley Block 73 City Hgts.
Between Van Dyke & 43rd St
From Nightman to Landis

20' wide

BM	5.71	359.28	353.57
		S. Ch. L. Nightman	
E	Tap Curb	5.75	353.53
H	"	5.54	353.74
		S. L. Nightman	
H		4.9	354.4
L		5.3	541.0
+L		5.4	53.9
E		5.0	54.3
		15'S	
E		4.1	55.2
L		4.4	54.9
+L		4.5	54.8
H		3.7	55.6
		40'S	
H		3.4	53.9
L		3.5	55.8
+L		3.5	55.8
E		3.9	55.4
		75'S	
E		4.8	54.5
H		4.3	55.0
L		4.2	55.1
H		3.8	55.5
		100'S	
H		4.4	54.9
+L		4.4	54.9

Top of Nightman & 43rd
Alley between
End of So. Obsidian
+ Edge Walk
Walk across
Alley No. Guard

		359.28	42	55.1
			45	54.8
			52	54.1
		140'S		
			55	53.8
			51	54.2
			49	54.4
		+ 5.00 Garage Conc Floor		54.67
		200'S		
			57	53.6
			59	53.4
			57	53.6
		250'S		
			67	52.6
			65	52.8
			63	53.0
		1.02	353.22	7.08
				352.20
		300'S		
			12	52.0
			11	52.1
			08	52.4
		330'S		
			14	51.8
			12	51.4
			16	51.6
			17	51.5

Shed via Alley

10.7-21 63
5.55-27
8.15-3
North 111-7

110'S
5.111-2
Garage Conc Floor
3.93-355.35

162'S
8.111-2
Garage Conc Floor
5.1-354.2

297'S & 111-4
Top of Conc Floor
7.08

353.22

360'S

-4	Do Garage Dirt Floor	2.3	350.9
N		2.3	50.9
S		2.2	51.0
E		2.0	51.2
+4	Do Garage Dirt Floor	8.1	51.1

380'S

E		2.3	50.9
S		2.2	51.0
N		2.4	50.8

400'S

N	Fence 0.1 in Alley	2.9	50.3
S		2.9	50.3
E	Fence 0.1 in Alley	2.9	50.5

430'S

E		3.9	49.3
S		3.7	49.5
N	Fence 0.5 in Alley	3.9	49.3

460'S

N		4.2	49.0
S		4.2	49.0
E	Fence 0.5 in Alley	4.0	49.2

500'S

E		4.4	48.8
S		4.5	48.7
N		4.7	48.5

530'S

503'S
7'11" x 2'
Garage Conc Floor
428-348.84

353.22

52	348.0
47	48.5
47	48.5

560'S

E		4.5	48.7
+5		5.1	48.1
S		5.0	48.2
N		5.1	48.1

585'S

N		5.8	47.4
S		5.8	47.4
E		5.7	47.5

597.3 = N.C. Landis

E		6.2	47.0
S		6.4	46.8
N		6.5	46.7

Alley Returns
End 7' N Obk. nr
= 5' Edge Walk
Walk Hard!!
Alley No Good

611.3 = N.C. Landis

N		6.6	46.56
E		6.53	46.69

670 359.20

TP		0.72	352.50
BN		5.68	353.58

N.C.
Yabl. man
4.33

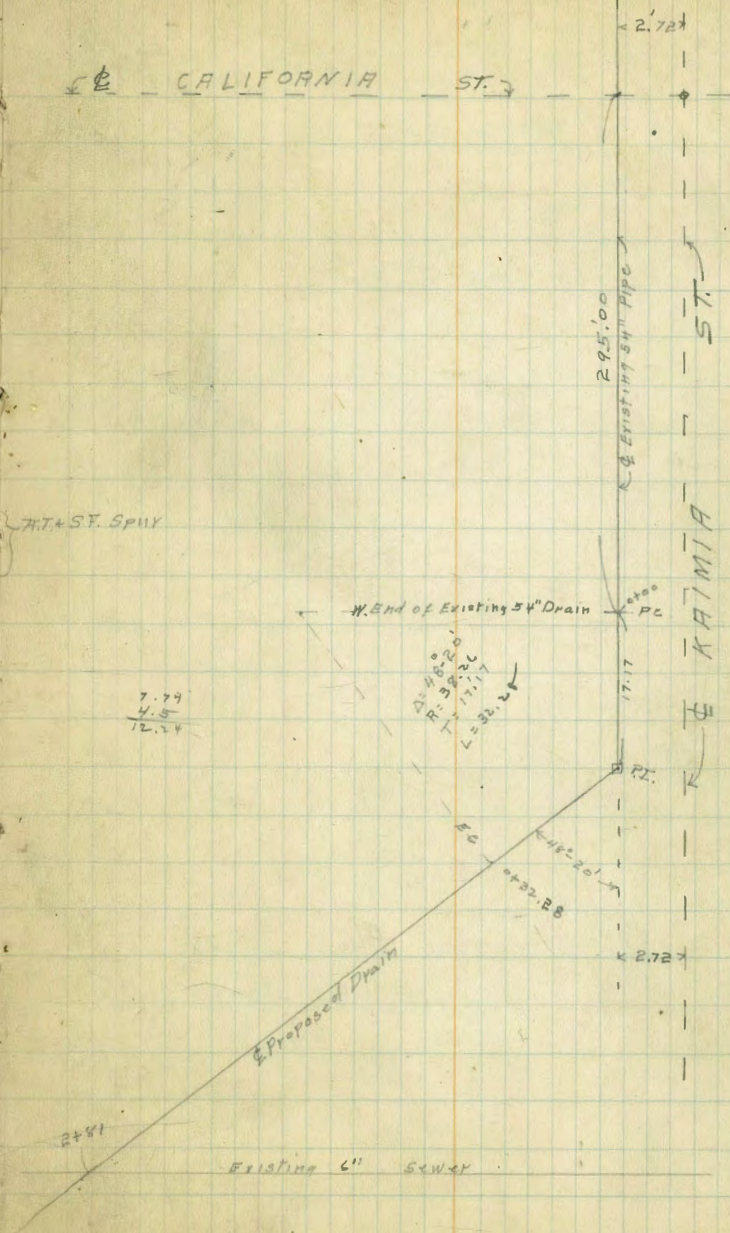
11-18-26
Miller.

Extension of Kalmia St Drain.

6.00
2.50
3.50

65

BM	4.09	14.13	10.04	JUNIPER N.E. + ATLANTIC Grades 2.00 Flowline
oo - W. end Existing 54" Pipe Drain = P.C.		12.24	1.89	
0+10		12.7	1.43	
0+12		7.9	6.23	
0+32.28 = E.C.		9.1	5.03	
0+40		8.9	5.21	
+75		10.4	3.73	
1+00		9.6	4.51	
+42		11.0	3.13	
+56	{	8.53	5.60	Top Rail
+61		8.33	5.80	" "
+77		12.9	1.23	
2+00		12.7	1.43	
+50		12.7	1.43	
2+81 = 84.6" CI S.W.W.Y		13.8	0.33	Flowline
3+00		13.3	0.83	
+45		13.7	0.43	
+50		11.6	2.53	
4+00		12.4	1.73	
+30		14.0	0.13	



H1
1267

NL + 50

1700

527

450

2100

150

St. Clayton 3700

26

1/4

1/4

ch

E

10.0

7.6

8.9

3.7

4.2

4.3

7.2

7.3

5.2

5.2

4.5

4.5

4.8

4.8

4.8

4.8

6.6

5.9

6.6

5.9

5.9

5.8

5.8

Ch

9.5

3.1

4.4

2.7

8.1

7.7

2.9

7.6

5.7

5.7

4.5

6.7

6.7

6.7

6.7

6.1

6.6

5.5

6.6

5.5

5.5

5.5

5.5

1/4

2.1

8.0

4.6

8.5

7.5

5.0

7.0

6.0

6.0

6.2

5.2

6.2

6.2

6.2

6.4

6.4

6.4

6.4

6.4

6.4

6.4

6.4

6.4

w. Atlantic

2

38

7.5

4.3

7.3

7.3

5.6

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

1/4

38

7.5

4.8

6.9

6.8

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

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6.9

6.9

6.9

6.9

6.9

Ch

43

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

6.9

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6.9

6.9

6.9

6.9

6.9

6.9

6.9

W

7.5

6.6

7.0

6.6

7.2

7.2

7.2

7.2

7.2

7.2

7.2

7.2

7.2

7.2

7.2

7.2

7.2

7.2

7.2

7.2

7.2

7.2

7.2

1263
 155
 208
 365
 673

TP. 365 673 955 308

N.L. Clayton
 +50
 1400
 +50
 2400
 +50
 SL Sutherland 3700
 d
 844
 d
 N74
 d

1263 -

E	ch.	1/4	d	1/4	d	W
58	51	4.9	4.6			
68	75	7.7	8.0			
51	47	5.1	4.7			
75	82	9.5	9.2			
41	36	3.7	3.9			
8.5	9.0	9.9	9.7			
3.5	3.3	2.1	3.3			
9.3	9.3	10.5	9.3			
37	31	3.4	3.4			
30	36	3.3	3.3			
33	32	3.0	3.1			
34	35	3.2	3.0			
33	30	3.0	3.1			
34	37	3.7	3.6			
31	31	3.2	3.6			
36	37	3.2	4.1			
31	34	3.4	3.5			
36	33	3.8	4.2			
33.4	33	2.9	4.6			
32	32	2.9	4.2			
31	34	3.8	4.7			
31	37	2.9	4.2			
35	37	3.8	4.2			
		42.5	42			
		59.8	59			
		61.2	61			
		60.2	60			
		60.2	60			
		60.2	60			

W Atlantic 70

+ H.I. -
67.3

NL Sutherland

0+50

1400

+50

2+0

550

SL Noell 2100

d

1/2

2

1/4

d

W. Atlantic

	E	Ch	1/4	d	1/4	Ob.	W
	3.1	2.7	2.8	2.5	2.4	0.1	92
	36	40	39	42	63	66	69
	40	47	48	48	69	67	73
	43	46	53	48	64	67	71
	45	53	64	66	68	76	78
	46	54	65	67	77	77	81
	47	53	64	68	77	77	81
	48	53	64	68	77	77	81
	49	53	64	68	77	77	81
	50	53	64	68	77	77	81
	51	53	64	68	77	77	81
	52	53	64	68	77	77	81
	53	53	64	68	77	77	81
	54	53	64	68	77	77	81
	55	53	64	68	77	77	81
	56	53	64	68	77	77	81
	57	53	64	68	77	77	81
	58	53	64	68	77	77	81
	59	53	64	68	77	77	81
	60	53	64	68	77	77	81
	61	53	64	68	77	77	81
	62	53	64	68	77	77	81
	63	53	64	68	77	77	81
	64	53	64	68	77	77	81
	65	53	64	68	77	77	81
	66	53	64	68	77	77	81
	67	53	64	68	77	77	81
	68	53	64	68	77	77	81
	69	53	64	68	77	77	81
	70	53	64	68	77	77	81
	71	53	64	68	77	77	81
	72	53	64	68	77	77	81
	73	53	64	68	77	77	81
	74	53	64	68	77	77	81
	75	53	64	68	77	77	81
	76	53	64	68	77	77	81
	77	53	64	68	77	77	81
	78	53	64	68	77	77	81
	79	53	64	68	77	77	81
	80	53	64	68	77	77	81
	81	53	64	68	77	77	81
	82	53	64	68	77	77	81
	83	53	64	68	77	77	81
	84	53	64	68	77	77	81
	85	53	64	68	77	77	81
	86	53	64	68	77	77	81
	87	53	64	68	77	77	81
	88	53	64	68	77	77	81
	89	53	64	68	77	77	81
	90	53	64	68	77	77	81
	91	53	64	68	77	77	81
	92	53	64	68	77	77	81
	93	53	64	68	77	77	81
	94	53	64	68	77	77	81
	95	53	64	68	77	77	81
	96	53	64	68	77	77	81
	97	53	64	68	77	77	81
	98	53	64	68	77	77	81
	99	53	64	68	77	77	81
	100	53	64	68	77	77	81

T.P.

57.

4.98

578

-0.72

S.L. Wright.

3+00

ch.

1/4

2

Estudillo-NL

+36

+50

1+00

+50

2+00

+50

41
5.03

ch.

59	-0.9	5	-0.7	5	-1.1	5	-0.7	5	-0.6	5	-0.4	5	-0.5	5	-0.4	5	-0.2	49	0.1	54	-0.4	48	0.2
59	-0.9	5	-0.6	5	-0.8	5	-0.7	5	-0.7	5	-0.5	5	-0.5	5	-0.6	5	0.0	53	-0.3	5	-0.5	50	0.0
59	-1.7	5	-1.2	5	-1.1	5	-1.6	5	-0.9	5	-0.8	5	-0.9	5	-0.9	5	-0.7	63	-1.3	46	0.4	50	0.0
42	0.8	42	0.8	45	0.5	45	0.5	43	0.7	43	0.8	43	0.7	46	0.4	46	0.4	64	-1.4	46	0.4	47	0.3
42	0.8	42	0.8	44	0.6	44	0.6	44	0.6	44	0.6	43	0.7	46	0.4	46	0.4	64	-1.4	46	0.4	47	0.3
46	0.4	42	0.8	45	0.5	45	0.5	42	0.8	42	0.8	42	0.8	46	0.4	46	0.4	64	-1.4	46	0.4	47	0.3
75	-2.5	73	-2.3	76	-2.6	78	-2.8	74	-2.4	74	-2.4	76	-2.6	73	-2.6	73	-2.6	66	-1.6	67	-1.7	73	-2.3
77	-2.2	79	-2.9	80	-3.0	82	-3.2	72	-2.2	73	-2.3	71	-2.1	75	-2.5	75	-2.5	68	-1.8	71	-2.1	74	-2.4
79	-2.9	79	-2.9	80	-3.0	82	-3.2	72	-2.2	73	-2.3	71	-2.1	75	-2.5	75	-2.5	68	-1.8	71	-2.1	74	-2.4
79	-2.9	79	-2.9	80	-3.0	82	-3.2	72	-2.2	73	-2.3	71	-2.1	75	-2.5	75	-2.5	68	-1.8	71	-2.1	74	-2.4

W. Atlantic 70

41. -
498
TP. 384 464 418 0.80
S.L. Couts 3+00

NE. Couts

1+00

2+00

3+00

4+00

Diag. 20's of SL. Withaby

TP. 686 575 575
Diag. SL
-1.11

NE

	E	CB	1/4	2	1/4	CB	W
2+00	84-3.4	84-3.4	86-3.6	86-3.6	86-3.6	86-3.6	86-3.6
3+00	87-3.7	88-3.8	88-3.8	88-3.8	88-3.8	88-3.8	88-3.8
4+00	88-4.0	88-3.9	88-3.9	88-3.9	88-3.9	88-3.9	88-3.9
1+00	82-3.6	86-4.0	87-4.1	87-4.1	87-4.1	87-4.1	87-4.1
2+00	77-3.1	82-3.6	83-3.7	83-3.7	83-3.7	83-3.7	83-3.7
3+00	84-3.5	84-3.5	84-3.5	84-3.5	84-3.5	84-3.5	84-3.5
4+00	81-3.5	81-3.5	81-3.5	81-3.5	81-3.5	81-3.5	81-3.5
Diag. 20's	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Diag. SL	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Diag. -1.11	5.0	5.0	5.0	5.0	5.0	5.0	5.0
NE	76	76	76	76	76	76	76

Levels for Drainage on W. Atlantic

757

18

Top of Rail Harasthy & Kurtz

± Kurtz + Conts

7.5 + 2.97

	2.87	24.66	21.79
Top Rail - E Clayton		4.46	20.3
Top Culvert - E end		9.42	15.3
Flow Line Culvert & side		14.82	9.9
Top Culvert - W. end		10.74	13.9
Flow line "		15.64	9.0
Top W. Rail		6.6	18.0
Top Center Rail		4.95	19.8
Top Rail - E Sutherland		6.88	18.7
T.O. E Noell	2.35	18.84	8.17
Flow Line 14 3' Bd.			16.49
Top Culvert E. End		7.00	11.8
Top E Rail		3.10	15.7
Top E Rail E Estudillo		4.1	14.7
Flow Line Bel. Estudillo on Wright		2.8	11.0
Top Culvert - 6" Ch. Pipe		4.5	14.3
Top Rail at Culvert		5.43	13.6
Top Rail at Wright		6.90	11.94
T.P. E Bandini	2.83	14.77	6.90
Top Rail at Timber Bridge		4.4	10.4
Flow Line Ground under Bridge		15.1	-0.8
T.P. on Headwall			
of 30" Culvert	6.14	9.87	11.04
Flow Line Culvert		15.04	-0.37
Top Culvert		8.84	1.03
Chk. on Top Wall		7.57	

Inters. Noell & Atlantic

H.I.

6.1

10.7 - 4.6

$$\begin{array}{r} 1. \\ 2.8 \\ \hline -1.8 \text{ Fl.} \\ \hline .10 \\ \hline 1.4 \text{ in } 100' = 1 \frac{1}{2} \text{ in } \end{array}$$

2/20

Levels end of Culvert from 300 N of NL

of Couts	+	H.1	-	
B.M.	4.96	7.16		+ 2.20
at intake			7.6	- 0.6
PL. at intake			7.6	+ 4.2
1+00			7.6	4.2
2+00			7.9	4.3
3+00 N.L. Couts			4.6	2.6
4+80 S.L. "			4.5	2.7
4+80			4.1	3.1
5+80			4.4	2.8
T.P.	3.1	6.40	3.86	3.30
6+70 Δ			3.8	2.6
7+54 Δ			4.6	1.8
80' S of S.L. Kurtz on Bandini St			6.7	- 0.3
100' "			7.7	- 1.3
135 "			7.4	- 1.0
145 "			5.7	+ 0.7
160 "			8.9	- 2.5
700 "			9.4	- 3.0
EL Atlantic			9.4	- 3.0

MOORE 2-1-49
Boggs
Sherman
Bunch

Location of Imp 75
SW Cor of 47th and
Federal Blvd

WO 29003

INDEXED

WIK

FEB 2 1949

Please plot
on Tie Streets

Bench Marks

Calif. + Harasthy

5253

Witherby + Hancock SW. Cor Mon.

10.54

Tide + Kurtz Spike NW

1.67

Fd disk

329.05

1d. C.T. out
Reset disk

Fd disk RE + 69
see Map
2323

40

89°55'

20

0.75

2.5

4.4

5.1

3.6

2.3

Set Roof nail

5" Con.
on 16 Island

ST. NAME SIGN LOCATION
2/2/49 DREBERT
Tel. Pole

PP ST Line
F.A. 487

4" Iron post
Neon sign

9.7

1.5

oil

11.5

2.5 wide

3905

PUMP

Island

CON.

102

570

9.8

10

STO TO

PLCIN

opening ON 100' R/W

18

18

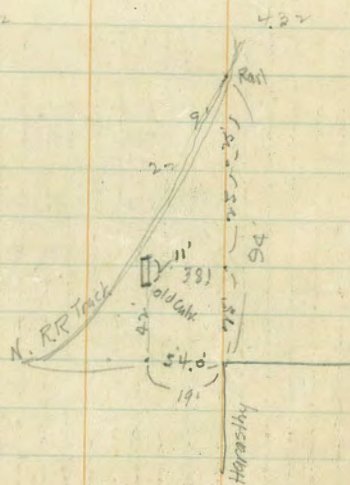
22

Bench Marks

On plug at center of Kurtz-W.L. Calif. 26.20
 Calif-Vine-So'W of NE Cor. Spike in pole 21.78
 Spike in pole at SE Cor Sutherland & Kurtz 15.77

B.M. 1000

T.P. on Sutherland & Kurtz



DIRECTIONS FOR USE OF TABLES

TABLE No. 1
 47.27
 26

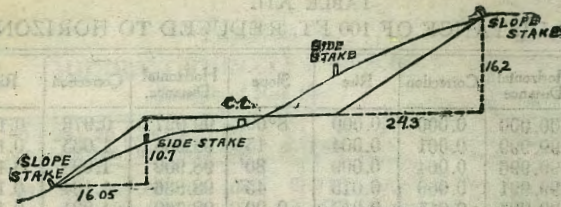
Distance of slope stake from side or shoulder stake for any width roadway, slope 1 1/2 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body

IMPROVED TABLES AND INFORMATION

level estimate the difference in elevation between the side stake and slope stake by this amount. If cut elevates it up. Add this amount at this point and line of sight should cut. If it does not make the slight adjustment

TABLE No. 2

To find Tangent and External for curve of other degree, divide by degree of curve and connection found in column of connection. Degree of curve with a given I may be found by giving tangent (or external) opposite I 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.



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0 00	0 15	0 30	0 45	0 60	0 75	0 90	1 05	1 20	1 35	0
1	1 50	1 65	1 80	1 95	2 10	2 25	2 40	2 55	3 10	3 25	1
2	3 00	3 15	3 30	3 45	3 60	3 75	3 90	4 05	4 20	4 35	2
3	4 50	4 65	4 80	4 95	5 10	5 25	5 40	5 55	5 70	5 85	3
4	6 00	6 15	6 30	6 45	6 60	6 75	6 90	7 05	7 20	7 35	4
5	7 50	7 65	7 80	7 95	8 10	8 25	8 40	8 55	8 70	8 85	5
6	9 00	9 15	9 30	9 45	9 60	9 75	9 90	10 05	10 20	10 35	6
7	10 50	10 65	10 80	10 95	11 10	11 25	11 40	11 55	11 70	11 85	7
8	12 00	12 15	12 30	12 45	12 60	12 75	12 90	13 05	13 20	13 35	8
9	13 50	13 65	13 80	13 95	14 10	14 25	14 40	14 55	14 70	14 85	9
10	15 00	15 15	15 30	15 45	15 60	15 75	15 90	16 05	16 20	16 35	10
11	16 50	16 65	16 80	16 95	17 10	17 25	17 40	17 55	17 70	17 85	11
12	18 00	18 15	18 30	18 45	18 60	18 75	18 90	19 05	19 20	19 35	12
13	19 50	19 65	19 80	19 95	20 10	20 25	20 40	20 55	20 70	20 85	13
14	21 00	21 15	21 30	21 45	21 60	21 75	21 90	22 05	22 20	22 35	14
15	22 50	22 65	22 80	22 95	23 10	23 25	23 40	23 55	23 70	23 85	15
16	24 00	24 15	24 30	24 45	24 60	24 75	24 90	25 05	25 20	25 35	16
17	25 50	25 65	25 80	25 95	26 10	26 25	26 40	26 55	26 70	26 85	17
18	27 00	27 15	27 30	27 45	27 60	27 75	27 90	28 05	28 20	28 35	18
19	28 50	28 65	28 80	28 95	29 10	29 25	29 40	29 55	29 70	29 85	19
20	30 00	30 15	30 30	30 45	30 60	30 75	30 90	31 05	31 20	31 35	20
21	31 50	31 65	31 80	31 95	32 10	32 25	32 40	32 55	32 70	32 85	21
22	33 00	33 15	33 30	33 45	33 60	33 75	33 90	34 05	34 20	34 35	22
23	34 50	34 65	34 80	34 95	35 10	35 25	35 40	35 55	35 70	35 85	23
24	36 00	36 15	36 30	36 45	36 60	36 75	36 90	37 05	37 20	37 35	24
25	37 50	37 65	37 80	37 95	38 10	38 25	38 40	38 55	38 70	38 85	25
26	39 00	39 15	39 30	39 45	39 60	39 75	39 90	40 05	40 20	40 35	26
27	40 50	40 65	40 80	40 95	41 10	41 25	41 40	41 55	41 70	41 85	27
28	42 00	42 15	42 30	42 45	42 60	42 75	42 90	43 05	43 20	43 35	28
29	43 50	43 65	43 80	43 95	44 10	44 25	44 40	44 55	44 70	44 85	29
30	45 00	45 15	45 30	45 45	45 60	45 75	45 90	46 05	46 20	46 35	30
31	46 50	46 65	46 80	46 95	47 10	47 25	47 40	47 55	47 70	47 85	31
32	48 00	48 15	48 30	48 45	48 60	48 75	48 90	49 05	49 20	49 35	32
33	49 50	49 65	49 80	49 95	50 10	50 25	50 40	50 55	50 70	50 85	33
34	51 00	51 15	51 30	51 45	51 60	51 75	51 90	52 05	52 20	52 35	34
35	52 50	52 65	52 80	52 95	53 10	53 25	53 40	53 55	53 70	53 85	35
36	54 00	54 15	54 30	54 45	54 60	54 75	54 90	55 05	55 20	55 35	36
37	55 50	55 65	55 80	55 95	56 10	56 25	56 40	56 55	56 70	56 85	37
38	57 00	57 15	57 30	57 45	57 60	57 75	57 90	58 05	58 20	58 35	38
39	58 50	58 65	58 80	58 95	59 10	59 25	59 40	59 55	59 70	59 85	39
40	60 00	60 15	60 30	60 45	60 60	60 75	60 90	61 05	61 20	61 35	40
41	61 50	61 65	61 80	61 95	62 10	62 25	62 40	62 55	62 70	62 85	41
42	63 00	63 15	63 30	63 45	63 60	63 75	63 90	64 05	64 20	64 35	42
43	64 50	64 65	64 80	64 95	65 10	65 25	65 40	65 55	65 70	65 85	43
44	66 00	66 15	66 30	66 45	66 60	66 75	66 90	67 05	67 20	67 35	44
45	67 50	67 65	67 80	67 95	68 10	68 25	68 40	68 55	68 70	68 85	45
46	69 00	69 15	69 30	69 45	69 60	69 75	69 90	70 05	70 20	70 35	46
47	70 50	70 65	70 80	70 95	71 10	71 25	71 40	71 55	71 70	71 85	47
48	72 00	72 15	72 30	72 45	72 60	72 75	72 90	73 05	73 20	73 35	48
49	73 50	73 65	73 80	73 95	74 10	74 25	74 40	74 55	74 70	74 85	49
50	75 00	75 15	75 30	75 45	75 60	75 75	75 90	76 05	76 20	76 35	50

Computed by L. Leland Locke.

6.75
16.75
33.00
5.58
27.42
78
14.6

22.01
6.25
28.26
5.58
22.68
74
14.8
8
flow line
outlet.

0+00=12.00
4+15=50.9 & Atlantic
6+00=-6.9
7+00=-8.9

840
111
729

153.6

685
673
12

627
111
5.16

540
280
100

515
12
503

685
515
170

575
503
72

200
71
129

672
170
502

570
72
498
418
80
386
464

575
464
111
686
797

1675
399
2074