

CIVIC CENTER
SURVEY

#5

1511

THE CITY OF
SAN FRANCISCO
15, 1947

X - SECTIONS

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS
Chicago New York San Francisco New Orleans Pittsburg Toronto

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	1
2	10.0	10.1	10.2	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be $30.6 + (20 - 16) \div 2$ or 2 ft. added to $30.6 = 32.6$. For slopes of 1 on $1\frac{1}{2}$ see inside of back cover.

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B.M. Pole East Robbins Shop 7.03
 " J. Line 6.50
 S.E. Cor. Grape & Atlantic 6.64
 Hub. Traverse Line 5+47.67 "MINUS=0.24
 " " " 2+21.78 3.91
 B.M. Tol Pole - Cor. Als Boat Shop 7.04
 N.E. Cor. Std. Oil Calif office 4.16
 Hub. Meander Line 9+96.07 5.69
 " " " 11+62.64 0.18
 " " " 14+60.65 3.43

ENGINEERING DEPARTMENT,
 CITY OF SAN DIEGO,
 CALIFORNIA.

①

B.M. Sta	+	T	-	Elev
2+21.78	5.42	9.33		3.91

B.M. Std. Oil Calif OFFICE	-	5.17		4.16
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Time	Water Levels			
8/28/34	10 A.M.	✓	- 3.84	8.00 4.16 3.84
"	11 "	✓	- 3.14	7.30 4.16
"	12 "	✓	- 3.04	7.20 4.16
"	1 P.M.	✓	- 3.74	7.90 4.16
"	2 P.M.	✓	- 4.84	9.00 4.16
"	3 P.M.	✓	- 6.04	10.20 4.16
8/29/34	8 A.M.	✓	- 5.94	10.10 4.16
" " "	9 "	✓	- 5.19	9.35 4.16
" " "	10 "	✓	- 4.24	8.40 4.16
" " "	11 "	✓	- 3.49	7.65 4.16
" " "	12 "	✓	- 3.24	7.50 4.16
" " "	1 "	✓	- 3.49	7.65 4.16
" " "	2 "	✓	- 4.09	8.25 4.16
" " "	3 "	✓	- 4.98	9.00 4.16

Notes - Bell - Bailey deBerard Recorder
Le Beau
Aug 27-1934

Pier No. 1 Inventory

Piling 76 Railroad Iron per Bent - total
Caps 2- 2"x12" - 10'-0" Long
36 Spans 10'-0" ctr to ctr
5-Stringers 2"x10"
Floor 336- 2"x12" - 10'-0" Lg
" 5- 2"x12" - 16'-0" "
" 5- 2"x12" - 14'-0" "
" 6- 2"x12" - 12'-0" "
" 12- 2"x12" - 20'-0" "
Else Lt. Standard 10- 2"x3" 9'-0" "
Plate Rail - 400 Lin # 2"x4"
Iron Bolts - 304- 3/4" x 10"

Pier No 2 Inventory

21- Bents. 42- R.R. Iron Piles
Caps 42 2"x12" - 8'-0" long
Spans - 10- 10'-0" ctr to ctr
10- 14'-0" " " "
Stringers 3- 2"x8"
Floor 226- 2"x12" - 8'-0" long
Plate Rail - 178- Lin # 2"x4"
Iron Bolts - 84- 3/4" x 10"

Pier No 3 Inventory

2 Bents - 12'-0" c/c - 4" x 4" Piling
 5 BENTS 12'-0" c/c - R.R. Iron Piling
 Caps 8 - 3" x 12" - 10'-0" Long
 Stringers 7 - 2" x 6" - 84'-0" " Total 58.8 Lin Ft
 Floor 75 - 2" x 12" - 10'-0" " " 750 " "
 " 3 - 2" x 12" - 28'-0" " " 84 " "
 " 2 - 2" x 12" - 14'-0" " " 28 " "
 " 2 - 2" x 12" - 30'-0" " " 60 " "
 " 1 - 2" x 12" - 16'-0" " " 16 " "
 Piling 3 - 6" x 6"
 " 3 - 12" Round
 Toilet 4'-8" x 4'-0" - 6'-5" High - 1" x 16" Flooring

Pier No 4 Inventory

9 - Bents - 18 - R.R. Iron Piling
 3 - " - 6 - 4" x 4" Wood "
 Caps 6 - 6" x 6" - 3'-0" Long
 " 14 - 2" x 6" - 3'-0" Long
 " 7 - 2" x 6" - 3'-0" "
 Stringers 2 - 2" x 6" - 148' " = 296 Lin Ft
 Floor 170 - 2" x 10" - 3'-0" Long

3

2.94

7.03

B.M. Tel Pole East Robbins

9.97

4.80

5.32 4.65

9.45

B₁ Line

4+00 5.20 4.4

R 13 4.90 4.7

4+13 4.80 4.8

R 13 4.90 4.7

4+18 10.30 -0.7

4+20 11.60 -2.0

4+22 12.20 -2.6

4+24 13.60 -4.0

C₁ Line

4+00 5.30 4.3

R 13 5.20 4.4

4+13 4.90 4.7

R 13 4.70 4.9

4+16 5.90 3.7

4+17 7.20 2.4

4+20 10.90 -1.3

4+24 12.00 -2.4

4+28 15.40 -5.8

④

D₁ Line

4+00	5.30	4.3
R13	5.10	4.5
4+13	5.20	4.4
R13	5.10	4.5
4+18	9.00	0.6
4+20	11.00	-1.4
4+23	12.00	-2.4
4+27	15.50	-5.9

E₁ Line

4+00	5.40	4.2
R13	5.30	4.3
4+13	5.60	4.0
R13	5.30	4.3
4+19	8.20	1.4
R08	9.00	0.6
R10	10.80	-1.2
R13	11.50	-1.9
4+23	9.00	0.6
4+24	13.40	-3.8
4+27	14.60	-5.0

F₁ Line

4+00	5.50	4.1
R13	5.40	4.2

(5)

4+13	5.70	3.9
R13	5.60	4.0
4+20	9.10	0.5
4+24	5.70	3.9
4+25	14.20	-4.6
4+27	16.70	-7.1

GI Line

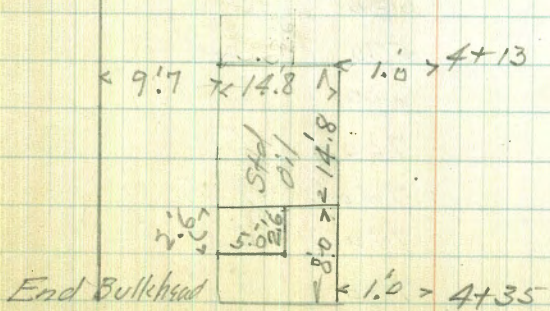
4+00	5.80	3.8
R13	5.60	4.0
4+13	5.80	3.8
R13	6.20	3.4
L03	6.10	3.5
4+19	8.50	1.1
4+23	9.10	0.5
4+26	15.70	-6.1
4+29	16.80	-7.2

H1-Line

4+00	5.40	4.2
R13	5.70	3.9
4+13	5.30	4.3
R13	5.80	3.8
4+20	7.80	1.8
4+23	10.50	-0.9
4+24	12.20	-2.6
4+28	14.50	-4.9
4+35	22.00	-12.4

Top Manhole Cover 4+13 - L 03

Bulkhead



⑥

	+	∧		
	5.33	11.97		6.64

B.M.			4.93	7.04
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	6.11	13.15		7.04
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B.M. S.E. Cor Grape & Atlantic

B.M. Tel Pole Al's Boat Shop

" " " " "

A4 to A5 Line

0+00 6.50 5.5

R 10 7.10 4.9

R 11 7.60 4.4

R 13 7.60 4.4

R 23 7.40 4.6

R 34 6.60 5.4

L 02 6.30 5.7

L 04 5.80 6.4

0+13 6.30 5.7

R 10 7.30 4.7

R 11 7.60 4.4

R 13 7.60 4.4

R 22 7.30 4.7

R 34 6.56 5.5

L 04 5.70 6.3

0+25 6.00 6.0

R 09 7.00 5.0

R 11 7.50 4.5

R 13 7.50 4.5

R 24 7.10 4.9

Edge Pavemt

Pavemt

⑦

R 34	6.50	5.5
L 05	5.20	6.8
O+37	6.10	5.9
R 08	6.60	5.4
R 11	6.90	5.1
R 13	7.50	4.5
R 24	7.00	5.0
R 34	6.30	5.7
L 04	5.80	6.8
O+50	5.80	6.2
R 09	7.10	4.9
R 11	7.00	5.0
R 13	7.40	4.6
R 22	6.90	5.1
R 34	6.30	5.7
L 03	4.80	7.2
O+63	5.80	6.2
R 09	6.90	5.1
R 11	6.90	5.1
R 13	7.40	4.6
R 22	6.90	5.1
R 34	6.00	6.0
L 05	4.40	7.6
O+70	5.20	6.8
R 10	6.80	5.2

⑧

R 11	7.30	4.7	
R 13	7.30	4.7	
R 22	6.80	5.2	
R 34	6.10	5.9	Parent
L 10	4.40	7.6	
O+87	5.30	6.7	
R 09	6.80	5.2	
R 11	7.30	4.7	
R 13	7.30	4.7	
R 24	6.60	5.4	
R 34	6.00	6.0	Parent
L 04	4.70	7.3	
I+00	5.10	6.9	
R 11	6.70	5.3	
R 13	7.10	4.9	
R 23	6.50	5.5	
R 34	6.00	6.0	Parent
L 05	4.70	7.3	
I+13	5.30	6.7	
R 10	6.60	5.4	
R 13	7.00	5.0	
R 24	6.40	5.6	
R 34	5.80	6.2	
L 04	4.50	7.5	

9

I+25	5.10	6.9	
R10	6.60	5.4	
R13	6.70	5.3	
R24	6.30	5.7	
R34	5.80	6.2	Parent
L04	4.50	7.5	
I+37	5.00	7.0	
R10	6.20	5.8	
R12	6.20	5.8	
R13	6.50	5.5	
R24	6.10	5.9	
R34	5.70	6.3	Parent
L04	4.30	7.7	
I+50	5.10	6.9	
R09	6.40	5.6	
R11	6.60	5.4	
R13	6.50	5.5	
R24	6.00	6.0	
R34	5.60	6.4	Parent
L05	4.20	7.8	
I+63	5.20	6.8	
R09	6.40	5.6	
R11	6.60	5.4	
R13	6.50	5.5	
R24	5.50	6.5	

(10)

R34	5.50	6.5	Parent
L04	4.30	7.7	
1+75	5.20	6.8	
R08	6.00	6.0	
R11	6.50	5.5	
R13	6.40	5.6	
R24	5.80	6.2	
R34	5.40	6.6	Parent
L03	4.50	7.5	
1+87	5.10	6.9	
R09	6.20	5.8	
R11	6.40	5.6	
R13	6.20	5.8	
R24	5.70	5.3	
R34	5.30	6.7	Parent
L03	4.20	7.8	
2+00	5.20	6.8	
R07	5.80	6.2	
R10	6.30	5.7	
R13	6.10	5.9	
R24	5.60	6.4	
R34	5.20	6.8	Parent
L03	4.00	7.0	
2+13	5.10	6.9	
R09	5.70	6.3	

(11)

R11	6.30	5.7
R13	6.20	5.8
R24	5.60	6.4
R34	5.10	6.9
L03	4.10	7.9
2+25	4.90	7.1
R09	5.70	6.3
R11	6.20	5.8
R13	5.90	6.1
R24	5.50	6.5
R34	5.10	6.9
L04	4.10	7.9
2+37	5.10	6.9
R05	5.30	6.7
R11	5.70	6.3
R13	6.20	5.8
R24	5.50	6.5
R34	5.00	7.0
L06	4.70	7.3
2+50	5.60	6.4
R13	5.90	6.1
R24	5.40	6.6
R34	4.90	7.1
2+63	5.50	6.5
R13	5.60	6.4

Parent

Parent

Parent

Parent

(12)

R	R24	5.20	6.8	
R	R34	4.90	7.1	Parent
R	2+75	5.10	6.9	
R	R13	5.20	6.8	
L	R24	5.10	6.9	
2+	R34	4.80	7.2	Parent
R	2+87	5.20	6.8	
R	R13	5.10	6.9	
R	R24	5.00	7.0	
R	R34	4.80	7.2	Par
R	3+00	5.10	6.9	
L	R13	5.00	7.0	
2+	R24	4.90	7.1	
R	R34	4.80	7.2	Par
R	3+13	4.40	7.6	
R	R05	4.40	7.6	
R	R07	5.00	7.0	
R	R13	5.00	7.0	
L	R24	5.10	6.9	
2+	R34	4.70	7.3	Par
R	3+25	4.20	7.8	
R	R08	4.30	7.7	
R	R11	5.10	6.9	
2+	R13	5.10	6.9	
R	R14	5.10	6.9	

(13)

R34		4.70	7.3
	B4 to B5 Line		
0+00		6.20	5.8
R13		5.70	6.3
0+13		5.70	6.3
R13		5.60	6.4
0+25		5.40	6.6
R13		5.40	6.6
0+37		5.10	6.9
R13		5.10	6.9
0+50		4.90	7.1
R13		4.80	7.2
0+63		4.40	7.6
R13		4.40	7.6
0+75		4.50	7.5
R13		4.50	7.5
0+87		4.30	7.7
R13		4.60	7.4
1+00		4.50	7.5
R13		4.40	7.6
1+13		4.30	7.7
R13		4.40	7.6
1+25		4.20	7.8
R13		4.30	7.7
1+37		4.20	7.8

Pavement

(14)

R13	4.10	7.9
1+50	4.40	7.6
R13	4.10	7.9
1+63	4.40	7.6
R13	4.20	7.8
1+75	4.40	7.6
R13	4.20	7.8
1+87	4.40	7.6
R13	4.20	7.8
2+00	4.10	7.9
R13	4.00	8.0
2+13	4.10	7.9
R13	4.10	7.9
2+25	4.50	7.5
R13	4.20	7.8
2+37	4.70	7.3
R13	5.00	7.0
2+50	5.20	6.8
R13	5.50	6.5
2+63	5.10	6.9
R13	5.50	6.5
2+75	4.70	7.3
R13	5.30	6.7
2+87	4.70	7.3
R13	5.10	6.9

(15)

3700		4.50	7.5
R13		4.50	7.5
3713		4.60	7.4
R13		4.40	7.6
3725		4.40	7.6
R13		4.60	7.4

6.15 13.19
C4 to C5 Line

7.04

BM. Tel Pole AL's Best Shop

0700		5.70	7.3
R13		6.00	7.0
0713		5.50	7.5
R13		5.80	7.2
0725		5.30	7.7
R13		5.80	7.2
0737		5.30	7.7
R13		4.80	8.2
0750		5.00	8.0
R13		4.70	8.3
0763		4.70	8.3
R13		4.50	8.5
0795		4.70	8.3
R13		4.30	8.7
0787		4.80	8.2
R13		4.30	8.7

(16)

1+00	4.70	8.3
R13	4.70	8.3
1+13	4.60	8.4
R13	4.40	8.6
1+25	4.70	8.3
R13	4.50	8.5
1+37	4.70	8.3
R13	4.60	8.4
1+50	4.50	8.5
R13	4.60	8.4
1+63	4.50	8.5
R13	4.50	8.5
1+75	4.50	8.5
R13	4.40	8.6
1+87	4.40	8.6
R13	4.60	8.4
2+00	4.50	8.5
R13	4.50	8.5
2+13	4.50	8.5
R13	4.60	8.4
2+25	4.60	8.4
R13	4.30	8.7
2+37	4.50	8.5
R13	4.30	8.7
2+50	4.60	8.4

(17)

R13	5.00	8.0
2+63	5.00	8.0
R13	5.00	8.0
2+75	4.50	8.5
R13	4.40	8.6
2+87	4.30	8.7
R13	4.20	8.8
3+00	5.10	7.9
R13	4.80	8.2
3+13	4.60	8.4
R13	4.40	8.6
3+25	4.80	8.2
R13	4.60	8.4

D4 to D5 Line

0+00	5.90	7.1
R13	5.70	7.3
0+13	5.90	7.1
R13	5.10	7.3
0+25	5.90	7.1
R13	5.50	7.5
0+37	5.70	7.3
R13	5.50	7.5
0+50	5.40	7.6
R13	5.20	7.8

(18)

0+63	5.20	7.8
R13	4.90	8.1
0+75	5.00	8.0
R13	4.80	8.2
10+87	4.90	8.1
R13	4.70	8.3
1400	4.80	8.2
R13	4.70	8.3
1+13	5.00	8.0
R13	4.70	8.3
1+25	5.00	8.0
R13	4.60	8.4
1+37	4.90	8.9
R13	4.90	8.1 =
1+50	5.10	7.9
R13	4.90	8.1
1+63	5.20	7.8
R13	4.80	8.2
1+75	4.90	8.1
R13	4.70	8.3
1+87	4.70	8.3
R13	4.70	8.3
2+00	4.80	8.2
R13	4.70	8.3
2+13	4.70	8.3

(19)

R13	4.50	8.5
2+25	4.80	8.2
R13	4.70	8.3
2+37	4.80	8.2
R13	4.60	8.4
2+50	5.20	7.8
R13	5.00	8.0
2+63	5.50	7.5
R13	5.20	7.8
2+75	5.00	8.0
R13	4.80	8.2
2+87	4.80	8.2
R13	4.60	8.4
3+00	5.50	7.5
R13	5.40	7.6
3+13	5.30	7.7
R13	4.90	8.1
3+25	5.10	7.9
R13	5.10	7.9

E4 to E5 Line

0+00	6.40	6.6
R13	6.10	6.9
0+13	6.30	6.7
R13	6.10	6.9

(20)

0+25	6.20	6.8
R13	5.90	7.1
0+37	6.10	6.9
R13	5.70	7.3
0+50	5.50	7.5
R13	5.60	7.4
0+63	5.60	7.4
R13	5.40	7.6
0+75	5.20	7.8
R13	5.20	7.8
0+87	5.20	7.8
R13	5.20	7.8
1+00	5.20	7.8
R13	5.20	7.8
1+13	5.10	7.9
R13	5.10	7.9
1+25	5.30	7.7
R13	5.20	7.8
1+37	5.20	7.8
R13	5.20	7.8
1+50	5.20	7.8
R13	5.20	7.8
1+63	5.30	7.7
R13	5.00	8.0

(21)

1+75	5.40	7.6
R13	5.20	7.8
1+87	5.40	7.6
R13	5.20	7.8
12+00	5.30	7.7
R13	5.00	8.0
2+13	5.00	8.0
R13	4.80	8.2
2+25	5.10	7.9
R13	5.00	8.0
2+37	5.30	7.7
R13	5.00	8.0
2+50	5.90	7.1
R13	5.50	7.5
2+63	5.90	7.1
R13	5.70	7.3
2+75	5.50	7.5
R13	5.30	7.7
2+87	5.30	7.7
R13	5.10	7.9
3+00	5.80	7.2
R13	5.70	7.3
3+13	5.50	7.5
R13	5.40	7.6

(22)

3+25 5.60 7.4

R13 5.50 7.5

F4 to Fs Line

5.35 12.39 7.04

0+00 5.90 6.5

R13 5.90 6.5

0+13 5.60 6.8

R13 5.70 6.7

0+25 5.50 6.9

R13 5.50 6.9

0+27 5.20 7.2

R13 5.30 7.1

0+50 5.20 7.2

R13 5.10 7.3

0+63 5.00 7.4

R13 4.70 7.7

0+75 5.00 7.4

R13 4.60 7.8

0+87 4.90 7.5

R13 4.50 7.9

1+00 4.70 7.7

R13 4.80 7.6

1+13 4.80 7.6

R13 4.50 7.9

(23)

1+25	4.80	7.6
R13	4.50	7.9
1+37	4.70	7.7
R13	4.50	7.9
1+50	4.70	7.7
R13	4.70	7.7
1+63	4.60	7.8
R13	4.80	7.6
1+75	4.70	7.7
R13	4.60	7.8
1+87	4.70	7.7
R13	4.70	7.7
2+00	4.60	7.8
R13	4.60	7.8
2+13	4.90	7.5
R13	4.60	7.8
2+25	4.60	7.8
R13	4.50	7.9
2+37	4.90	7.5
R13	4.60	7.8
2+50	5.40	7.0
R13	5.40	7.0
2+63	5.50	6.9
R13	5.20	7.2

(24)

2+75	5.30	7.1
R13	5.00	7.4
2+87	5.10	7.3
R13	4.70	7.7
3+00	4.90	7.5
R13	5.00	7.4
3+13	5.20	7.2
R13	5.00	7.4
3+25	5.00	7.4
R13	4.80	7.6

G4 to G5 Line

0+00	6.30	6.1
R13	6.20	6.2
0+13	6.40	6.0
R13	5.80	6.6
0+25	6.10	6.3
R13	5.80	6.6
0+37	5.90	6.5
R13	5.70	6.7
0+50	5.70	6.7
R13	5.40	7.0
0+63	5.30	7.1
R13	5.10	7.3
0+75	5.00	7.4
R13	5.10	7.3

(25)

0+87	470	7.7
R13	500	7.4
1+00	500	7.4
R13	460	7.8
1+13	500	7.4
R13	480	7.6
1+25	500	7.4
R13	460	7.8
1+37	480	7.6
R13	460	7.8
1+50	480	7.6
R13	480	7.6
1+63	490	7.5
R13	470	7.7
1+75	460	7.8
R13	470	7.7
1+87	420	8.2
R02	490	7.5
R13	480	7.6
2+00	490	7.5
R13	490	7.5
2+13	460	7.8
R02	430	8.1
R04	480	7.6
R13	470	7.7

(26)

2+25	4.30	8.1
R02	4.50	7.9
R03	5.10	7.3
R13	4.60	7.8
2+37	5.30	7.1
R03	5.40	7.0
R13	5.60	6.8
2+50	5.80	6.6
R13	5.60	6.8
2+63	6.30	6.1
R13	5.80	6.6
2+75	5.80	6.6
R13	5.60	6.8
2+87	6.20	6.2
R13	5.70	6.7
3+00	5.80	6.6
R13	5.60	6.8
3+13	5.10	7.3
R13	5.30	7.1
3+25	5.10	7.3
R13	4.90	7.5
H4 to H5		
0+00	6.50	5.9
R11	5.90	6.5
R13	5.40	7.0

(27)

R18	6.00	6.4
R20	6.40	6.0
O+13	6.60	5.8
R11	6.10	6.3
R13	5.50	6.9
R17	6.30	6.1
R20	6.30	6.1
O+25	6.60	5.8
R11	6.20	6.2
R13	4.80	7.6
R18	5.50	6.9
R20	6.10	6.3
O+37	6.70	5.7
R11	6.20	6.2
R13	5.20	7.2
R17	4.70	7.7
R19	5.30	7.1
R20	5.80	6.6
O+50	6.80	5.6
R10	6.20	6.2
R13	3.60	8.8
R16	4.60	7.8
R18	4.90	7.5
R20	5.60	6.8
R22	5.70	6.7

(28)

0+63	6.80	5.6
R 10	6.30	6.1
R 13	3.80	8.6
R 17	4.60	7.8
R 19	5.60	6.8
R 22	5.40	7.0
0+75	6.90	5.5
R 11	6.40	6.0
R 13	5.00	7.4
R 14	4.60	7.8
R 18	4.60	7.8
R 20	5.10	7.3
R 22	5.10	7.3
0+87	6.80	5.6
R 11	6.40	6.0
R 14	5.10	7.3
R 18	4.70	7.7
R 20	5.00	7.4
1+00	6.80	5.6
R 11	6.30	6.1
R 14	5.10	7.3
R 18	4.40	8.0
R 21	5.10	7.3
1+13	6.80	5.6
R 12	6.30	6.1

(29)

R 13	5.00	7.4
R 18	4.00	8.4
R 20	4.00	8.4
R 23	4.80	7.6
1+25	6.70	5.7
R 11	6.30	6.1
R 14	5.20	7.2
R 18	4.20	8.2
R 21	3.80	8.6
R 23	4.70	7.7
R 25	4.90	7.5
1+37	6.70	5.7
R 11	6.30	6.1
R 15	5.30	7.1 =
R 19	4.50	7.9
R 22	4.40	8.0
R 25	4.80	7.6
1+50	6.50	5.9
R 13	6.30	6.1
R 15	5.40	7.0
R 18	4.30	8.1
R 22	4.00	8.4
R 23	4.30	8.1
R 25	4.90	7.5

(30)

1+63	6.40	7.0
R12	6.20	6.2
R15	5.20	7.2
R20	3.70	8.7
R24	4.40	8.0
R25	5.00	7.4
1+75	6.40	6.0
R15	6.20	6.2
R16	5.30	7.1
R21	4.00	8.4
R25	4.50	7.9
R27	5.00	7.4
1+87	6.30	6.1
R13	6.00	6.4
R15	5.30	7.1
R20	3.80	8.6
R25	4.20	8.2
R28	4.90	7.5
2+00	6.40	6.0
R13	6.00	6.4
R16	4.40	8.0
R19	3.40	9.0
R22	4.30	8.1
R25-	5.40	7.0

(31)

2+73	6.60	5.8
R13	6.10	6.3
R16	5.40	7.0
R22	4.60	7.8
R27	4.40	8.0
R31	4.80	7.6
2+25	6.70	5.7
R13	6.20	6.2
R15	5.00	7.4
R21	3.90	8.5
R26	4.30	8.1
R30	5.20	7.2
2+37	6.80	5.6
R13	6.30	6.1
R16	5.60	6.8
R20	4.30	8.1
R24	4.50	7.9
R27	5.30	7.1
2+50	6.80	5.6
R13	6.50	5.9
R17	5.60	5.8
R21	5.00	7.4
R25	5.90	6.5
2+63	6.80	5.6
R13	6.20	6.2

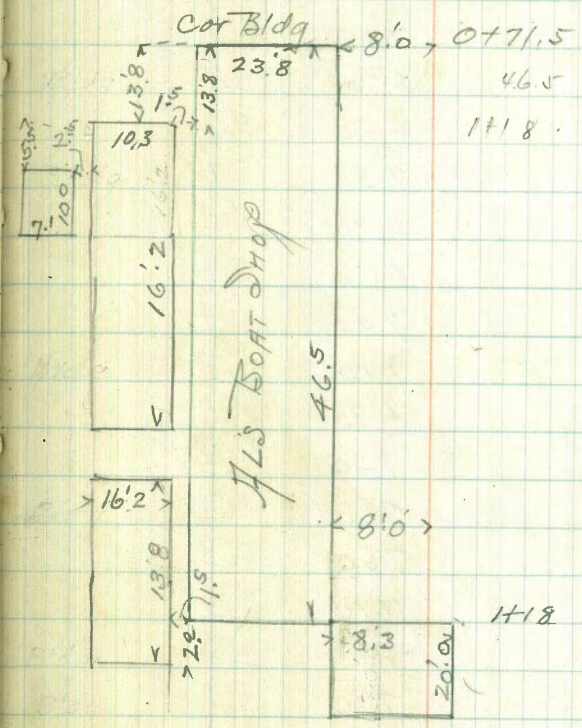
(32)

2+75	6.80	5.6
R13	6.20	6.2
2+87	6.10	6.3
R13	6.30	6.1
3+00	6.90	5.5
R13	6.60	5.8
3+13	7.10	5.3
R13	6.70	5.7
R16	6.10	6.3
R21	5.00	7.4
R25	5.00	7.4
3+25	7.10	5.3
R13	6.70	5.7
R16	5.80	6.6
R27	5.30	7.1

I4 to I5 Line

0+00	7.10	5.3
R13	6.70	5.7
0+13	7.40	5.0
R13	6.70	5.7
0+25	7.30	5.1
R13	6.70	5.7
0+37	7.40	5.0
R13	6.70	5.7
0+50	7.30	5.1

R13	6.70	5.7
O+63	7.20	5.1
R13	6.80	5.6
O+715	7.00	5.4
L08.0	7.50	5.4
O+75	7.00	5.4
L08.0	7.00	5.4
R13	6.80	5.6
O+87	6.60	5.8
R13	6.80	5.6
L08.0	6.80	5.6
1700	6.40	6.0
R13	6.80	5.6
L08.0	7.30	5.1
1+13	6.40	6.0
R13	6.70	5.7
L08.0	7.40	5.0
1+25	6.20	6.2
R01	6.20	6.2
R13	6.60	5.8
1+37	6.80	5.6
R01	6.30	6.1
R13	6.50	5.9
1+50	7.00	5.4
R13	6.50	5.9



(34)

1+63	7.40	5.0
R06	6.70	5.7
R13	6.50	5.9
1+75	7.50	4.9
R09	6.70	5.7
R13	6.50	5.9
1+87	7.30	5.1
R11	6.90	5.5
R13	6.70	5.7
2+00	7.00	5.4
R06	7.10	5.3
R13	6.90	5.5
2+13	7.50	4.9
R13	7.00	5.4
2+25	7.60	4.8
R13	7.10	5.3
1+37	7.60	4.8
R13	7.10	5.3
2+50	7.60	4.8
R13	7.20	5.2
2+63	7.50	4.9
R13	7.20	5.2
2+75	7.60	4.8
R13	7.40	5.0
2+87	7.50	4.9

35

R13	7.10	5.3
3+00	7.30	5.1
R13	7.10	5.3
3+13	7.30	5.1
R13	7.10	5.3
3+25	7.50	4.9
R13	7.10	5.3

J4 to J5 Line

0+00	2.59	9.63	7.04
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R13			
0+00	4.90	4.7	
R13	4.80	4.8	
0+13	5.00	4.6	
R13	4.70	4.9	
0+25	4.90	4.7	
R13	4.60	5.0	
0+37	4.80	4.8	
R13	4.50	5.1	
0+50	4.70	4.9	
R13	4.50	5.1	
0+63	4.60	5.0	
R13	4.40	5.2	
0+72.3	4.70	4.9	
R13	4.30	5.3	
R17.8	4.20	5.4	

Contd Page (39)

Corner Bldg

(36)

+ ∇ - Elev
9.63

K4 to K5 Line

0+00		5.30	4.3	
R13		5.00	4.6	
0+13		5.10	4.5	
R13		5.10	4.5	
0+25		4.90	4.7	
R13		5.00	4.6	
0+37		5.00	4.6	
R13		4.80	4.8	
0+50		4.70	4.9	
R13		4.70	4.9	
0+63		4.70	4.9	
R13		4.80	4.8	
0+75		4.70	4.9	
R13		4.80	4.8	
R18.9		4.80	4.8	S.W. Cor Main Bldg Als Boat Shop
0+87		4.80	4.8	
R13		4.80	4.8	
R18.9		4.90	4.7	Bldg
0+89		4.90	4.7	S.W. Cor Shed
R07.3		4.70	4.9	
0+95		4.90	4.7	shed
R05		5.00	4.4	S.E. Cor Shed

Contd Page (41)

(37)

+ ∇ - E/

9.63

L4 to L5 Line

0+00		5.10	4.5
R13		5.10	4.5
0+13		4.90	4.7
R13		4.90	4.7
0+25		4.90	4.7
R13		4.80	4.6
0+37		4.90	4.7
R13		4.90	4.7
0+50		4.70	4.9
R13		4.60	5.0
0+63		4.80	4.8
R13		4.40	5.2
0+75		4.90	4.7
R13		4.40	5.2
0+87		4.50	5.1
R13		4.30	5.3
1+00		4.50	5.1
R13		4.20	5.4
1+13		4.50	5.1
R13		4.20	5.4
1+19		5.80	4.8
R10		5.30	4.3
R13		6.40	3.2

Top Inlet Bank

38

+ ∇ - E1

9.63

M4 to M5 Line

0+00		5.60	4.0
R13		5.40	4.2
L13		5.30	4.3
L16		5.40	4.2
0+13		5.10	4.5
R13		5.10	4.5
L13		5.20	4.4
0+24		5.10	4.5
R10		5.00	4.6
L10		6.60	3.0
L14		7.80	1.8
0+42		5.70	3.9
R12		5.40	4.2
0+50		5.50	4.1
R13		5.30	4.3
L06		4.90	4.7
0+63		4.50	5.1
R13		5.10	4.5
L05		4.50	5.1
0+75		4.00	5.6
R13		5.00	4.6
L02		4.00	5.6

Top Bank

Top Bank

shed

0+24

CorShed

SW CorShed

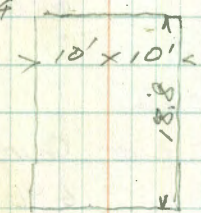
Top Bank

CorShed

Top Bank

Top Bank

Top Bank



(39)

0+87		3.80	5.8
L01		3.80	5.8
R13		4.70	4.9
0+90		3.20	6.4
0+95		6.40	3.2
1+00		10.10	-0.5
R13		4.00	5.6
1+13		7.70	1.9
R13		7.10	2.5
R17		6.10	3.5

Top Inlet Bank

Top slope

^

B17	3.62	10.66	7.04
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J4 to J5 Line Contd from Page (35)

1+18		6.90	3.8
R13		6.60	4.1
R17		6.40	4.3
1+25		7.60	3.1
R13		7.40	3.3
1+38		8.20	2.5
R13		7.30	3.4
R18		7.00	3.7
1+50		8.60	2.1
R09		8.00	2.7
R13		7.20	3.5

North End A's Boat Shop.

N.W. Cor Shed

(40)

1+63	8.80	1.9
R06	8.10	2.6
R13	7.00	3.7
1+69	7.60	3.1
R13	6.90	3.8
1+75	7.30	3.4
R13	6.30	4.4
1+85	7.00	3.7
R13	6.10	4.6
1+87	6.60	4.1
R13	6.00	4.7
2+00	6.20	4.5
R13	5.80	4.9
2+13	6.00	4.7
R13	6.00	4.7
2+25	6.30	4.4
R13	6.10	4.6
2+37	6.20	4.5
R13	6.10	4.6
2+50	6.30	4.4
R13	6.10	4.6
2+63	6.20	4.5
R13	6.90	4.7
2+75	6.30	4.4
R13	6.00	4.7

(41)

2787		6.10	4.6	
R13		6.00	4.7	
3700		6.10	4.6	
R13		5.90	4.8	
3713		6.10	4.6	
R13		5.90	4.8	
3725		5.50	5.2	
R13		5.60	5.1	Bldg
		10.66		

K4 to K5 Line Contd from Page (36)

1+18.5		7.70	3.0	NW Cor. ALS Boat Shop Top Inlet Bank
1+23		10.20	0.5	
1+25		10.60	0.1	
R13		8.90	1.8	
1+37		8.90	1.8	
R13		9.60	1.1	
1+50		11.10	-0.4	
R13		9.80	0.9	
1+63		10.90	-0.2	
R13		9.60	1.1	
1+66		10.50	0.2	
R13		8.80	1.9	
1+75		10.40	0.3	
R13		8.90	1.8	

(42)

1787	10.00	0.7
R04	9.40	1.3
R07	8.80	1.9
R11	8.00	2.7
R13	6.80	3.9
R15	6.80	3.9
1793	7.50	3.2
R13	6.80	3.9
1796	7.00	3.7
R13	6.50	4.2
2+00	6.90	3.8
R13	6.50	4.2
2+13	6.80	3.9
R13	6.40	4.3
2+25	6.70	4.0
R13	6.40	4.3
2+37	6.60	4.1
R13	6.20	4.5
2+50	6.60	4.1
R13	6.30	4.4
2+63	6.60	4.1
R13	6.40	4.3
2+75	6.70	4.0
R13	6.40	4.3

(43)

↑
10.66

2+87	6.40	4.3
R13	6.40	4.3
3+00	6.40	4.3
R13	6.20	4.5
3+13	6.60	4.1
R13	6.60	4.1
3+25.0	5.80	4.9
R13	5.50	5.2
R25.0	5.50	5.2

SE Cor Bldg

↑
10.66

L4 to L5 Line Contd from Page (37)

1+13	6.00	4.7
R06	5.80	4.9
R09	6.60	4.1
R13	7.40	3.3
R21	7.40	3.3
R26	7.40	3.3
1+19	7.10	3.6
R06	7.20	3.5
R12	8.60	2.1
R18	9.20	1.5
R21	8.90	1.8
R26	8.60	2.1
1+22	13.00	-2.3
R13	11.80	-1.1

Top Slope North Line Als Boat Shop

N.W Cor Bldg

(44)

1+25	13.00	-2.3
R13	12.10	-1.4
1+37	13.10	-2.4
R13	12.00	-1.3
1+50	13.20	-2.5
R13	12.00	-1.3
1+63	13.00	-2.3
R13	11.80	-1.1
1+75	12.90	-2.2
R13	11.70	-1.0
1+81	12.80	-2.1
R13	11.80	-1.1
1+87	10.60	0.1
R04	10.00	0.7
R13	9.70	1.0
1+94	8.00	2.7
R13	7.00	3.7
2+00	6.60	4.1
R04	5.80	4.9
R06	6.70	4.0
R13	6.90	3.8
L09	9.50	1.2
2+13	6.20	4.5
R03	6.80	3.9
R13	6.80	3.9

Top Slope

Top Slope

(45)

L06	6.50	3.2	
L09	5.60	5.1	Top Bank
2+25	6.80	3.9	
R13	6.80	3.9	
L06	6.80	3.9	
L09	5.80	4.9	Top Bank
2+37	6.80	3.9	
R13	6.90	3.8	
L06	6.60	4.1	
L09	5.80	4.9	Top Bank
2+50	6.40	4.3	
R13	6.80	3.9	
L06	6.50	4.2	
L09	5.80	4.9	Top Bank
2+63	6.40	4.3	
R13	6.80	3.9	
L06	6.40	4.3	
L11	5.90	4.8	Top Bank
2+75	6.70	4.0	
R13	6.70	4.0	
L07	6.50	4.2	
L11	5.60	5.1	Top Bank
2+87	6.60	4.1	
R13	6.80	3.9	
L09	6.80	3.9	

(46)

L12	5.50	5.2	Top Bank
3+00	6.40	4.3	
R13	6.50	4.2	
L08	6.40	4.3	
L12	5.30	5.4	Top Bank
3+05	6.40	4.3	
R13	6.60	4.1	
L02	6.30	4.4	
L11	5.30	5.4	Top Bank
3+13	7.20	3.5	
R05	6.90	3.8	
R13	6.50	4.1	
L02	6.80	3.9	
L09	6.30	4.4	
L13	6.90	3.8	Top Bank
3+25	7.20	3.5	Bldg Line Marianas Landing
R09	6.20	4.5	SW cor Bldg
R13	6.20	4.5	
L06	7.40	3.3	
L11	7.90	2.8	Top Bank

(47)

X
1066

M470 M5 Line Contd from Page (39)

1+13	10.10
R04	9.00
R09	8.60
R13	8.20
L05	11.20
L10	14.60
1+16	10.10
1+18	11.50
R13	8.20
1+19	15.20
R13	13.00
1+25	In Water
R13	14.2
1+37	Water
R13	14.3
1+50	Water
R13	14.4
1+63	Water
R13	14.3
1+75	Water
R13	14.3
1+87	Water
R13	14.3

(48)

Sta + 10.66 - Elev

2+00 In Water

R11 11.80

R13 10.50

2.88 9.92 7.04

9+96.07 4.23 5.69

2.66 8.35

10+32.2

=0+100 5.10 3.25

0+13 6.80 1.55

R02 6.80 1.55

R02 10.70 - 2.35

L02 6.80 1.5

L02 9.00 - 1.3

0+25 8.30 0.0

R02 8.20 0.1

R02 13.90 - 5.6

L02 8.30

0+37 8.40

R02 8.40

R02 15.10 - 6.8

0+50 8.50

R02 8.50

R02 15.60

-6.3

8.48
8.35
- .13
4.85
4.98

1000
80.2
19.8

50
19.6
30.2
2.0
32.2

9+96.07
302

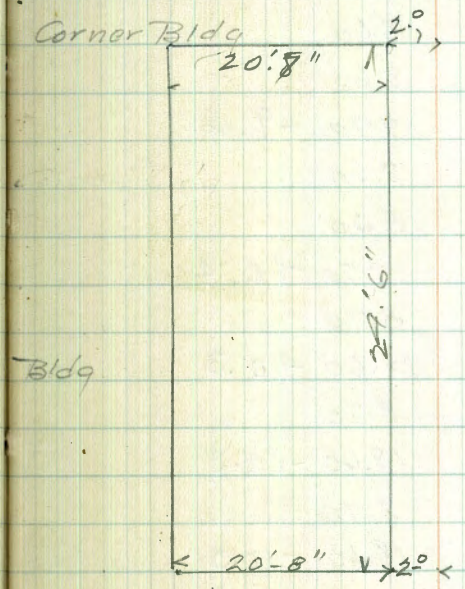
B.M. Tel Pole S.E. Cor. Als Boat Shop

♀ Pier No. 5

10+32.2 = 0+100 XSECTION PIER No. 5

49

0+63	8.50	
R02	8.50	
R02	16.10	-7.8
0+69.2	8.50	
R02	8.50	
R02	16.20	
L02	16.20	-7.9
0+75	8.50	
R02	8.50	
R02	16.30	
L02	8.50	-8.0
0+87	8.60	
R02	8.60	
R02	16.60	-8.3
0+93.7	8.50	
R02	16.60	-8.3
1+00	8.60	
R02	8.60	
R02	16.80	-8.5
1+13	8.60	
R02	8.60	
R02	16.80	-8.5
1+25	8.60	
R02	8.60	
R02	17.30	-9.0



(50)

1737	8.60
R02	8.60
R02	17.40 -9.1
1750	8.60
R02	8.60
R02	17.90 -9.6
1763	8.60
R02	8.60
R02	18.70 -10.4
R13	8.70
R13	18.60 -10.3
R25	8.70
R25	18.60 -10.3
R37	8.70
R37	18.60 -10.3
R50	8.70
R50	18.70 -10.4
R68	8.10
R68	18.90 -10.6
L13	8.60
L13	18.70 -10.4
L25	8.60
L25	18.50 -10.2
L37	8.70
L37	18.60 -10.3

(51)

L 50	7.70
L 50	18.80 -10.5
1+75	8.60
R02	19.30 -11.0
1R25	9.40
R25	19.50 -11.2
R68	8.20
R68	19.40 -11.1
L50	7.70
L50	19.60 -11.3
1+87	8.80
R02	20.10 -11.8
R25	10.00
R25	20.50 -12.2
R68	8.20
R68	19.80 -11.5
L50	7.70
L50	20.40 -12.1
1+945	10.40
R25	21.00 -12.7
1+915	8.20
R68	20.00 -11.7
1+93	7.80
L50	21.00 -11.7
L63	7.70

End Pier

" "

End Pier

" "

Cor Piers

(52)

1+93	
L63	20.90 -12.6
L75	7.80
L75	20.90 -12.6
L91	7.80
L91	20.70 -12.4
2+00	8.90
R02	8.90
R02	21.10 -12.8
L50	7.80
L50	21.90 -13.6
L91	8.00
L91	21.10 -12.8
2+13	9.00
R02	9.00
R02	22.60 -14.3
L50	7.80
L50	23.50 -15.2
L91	8.00
L91	21.10 -12.8
2+27.5	8.90
R02	8.90
R02	23.30 -15.0

Cor. Pier

End Pier

End Pier

(53)

	+	π	-	Elev	
9496.07	2.23			5.69	BM

7.92

Shore Line - Traverse

10+00		2.10	5.8
-------	--	------	-----

R02		2.10	5.8
-----	--	------	-----

R07		4.00	3.9
-----	--	------	-----

R13		3.80	4.1
-----	--	------	-----

L02		2.40	5.5
-----	--	------	-----

L10		10.00	-2.1
-----	--	-------	------

L13		10.60	-2.7
-----	--	-------	------

L16		12.00	-4.1
-----	--	-------	------

L23		13.60	-5.7
-----	--	-------	------

Water Edge

10+15		2.20	5.7
-------	--	------	-----

R02		2.40	5.5
-----	--	------	-----

R06		4.00	3.9
-----	--	------	-----

R13		3.70	4.2
-----	--	------	-----

L02		2.50	5.4
-----	--	------	-----

L04		2.90	5.0
-----	--	------	-----

L12		10.20	-2.3
-----	--	-------	------

L13		10.50	-2.6
-----	--	-------	------

L23		13.50	-5.6
-----	--	-------	------

Water Edge

10+25		3.50	4.4
-------	--	------	-----

R05		3.90	4.0
-----	--	------	-----

R13		3.80	4.1
-----	--	------	-----

L03		4.10	3.8
-----	--	------	-----

(5A)

L07	7.60	0.3
L13	9.90	-2.0
L21	13.10	-5.2
10+37	4.00	3.9
R04	3.90	4.0
R13	3.90	4.0
L07	5.60	2.3
L13	10.60	-2.7
L16	11.70	-3.8
L27	13.80	-5.9
10+50	3.70	4.2
R13	3.70	4.2
R25	3.60	4.3
R32	3.60	4.3
L03	3.90	4.0
L10	10.30	-2.4
L13	11.20	-3.3
L21	13.50	-5.6
10+63	3.80	4.1
R03	4.10	3.8
R13	3.80	4.1
R25	3.50	4.4
R32	3.50	4.4
L03	3.80	4.1
L06	8.10	-0.2

Water Edge

Water Edge

West Side S.V. Yacht Club

Water Edge

Bldg

(55)

L 11	10.00	-2.1	
L 14	12.20	-4.3	
L 19	13.20	-5.3	Water Edge
10475	3.70	4.2	
R03	4.10	3.8	
R13	4.00	3.9	
R25	3.60	4.3	
R31	3.60	4.3	
L 01	4.10	3.8	
L 03	5.80	2.1	
L 09	10.40	-2.5	
L 12	11.60	-3.7	
L 16	13.30	-5.4	Water Edge
10487	4.50	3.4	Top Bank Slope
R04	4.30	3.6	
R13	4.00	3.9	
R25	3.60	4.3	
R31	3.60	4.3	21d9
L 05	10.00	-2.1	
L 10	12.30	-4.4	
L 15	13.40	-5.5	Water Edge
11400	7.00	0.9	
R02	5.10	2.8	
R05	4.20	3.7	
R13	4.20	3.7	

(56)

R31	3.50	4.4	Bldg
L13	11.90	-4.0	
L15	13.30	-5.4	Water Edge
11+13	10.10	-2.2	
R06	4.40	3.5	
R13	4.30	3.6	
L05	11.00	-3.1	
L07	11.80	-3.9	
L16	13.20	-5.3	Water Edge
11+25	8.80	-0.9	
R08	4.00	3.9	
R13	4.00	3.9	
L03	10.50	-2.6	
L08	11.70	-3.8	
L13	12.70	-4.8	
L20	14.00	-5.1	Water Edge
11+37	8.00	-0.1	
R06	3.60	4.3	
R13	3.60	4.3	
L04	10.30	-2.4	
L12	12.20	-4.3	
L20	13.60	-5.7	Water Edge
11+50	9.00	-1.1	
R06	4.40	3.5	
R08	3.50	4.4	

(57)

+

7.92

-

Elev

R13		3.50	4.4	
L09		11.80	-3.9	
L20		13.20	-5.3	Water Edge
11+62.64 Δ		7.74	0.18	
R06		4.90	3.0	
R09		4.50	3.4	Cor. Shed
R13		4.30	3.6	
L03		8.50	-0.6	
L09		11.60	-3.7	
L18		12.10	-4.2	Water Edge
11+75		8.30	-0.4	
R04		7.60	0.3	
R08		7.30	0.6	
L04		9.40	-1.5	
L09		11.70	-3.8	
L16		12.40	-4.5	Water Edge
11+87		8.20	-0.3	
R04		6.60	1.3	
L05		11.50	-3.6	
L16		12.50	-4.6	Water Edge
11+62.64		7.74	0.18	
	6.67	6.85		
12+00		9.70	-2.9	
R02		9.50	-2.7	
R12		2.00	4.8	Top Bank

88
43

58

6.85

L03	10.40	-3.6	
L15	11.70	-4.9	Water Edge
12+13	9.60	-2.8	
R04	8.80	-2.0	
R13	0.40	6.4	Top Bank
L04	10.50	-3.7	
L15	11.80	-5.0	Water Edge
12+25	9.70	-2.9	
R11	1.20	5.6	
L12	11.80	-5.0	Water Edge
12+37	10.20	-3.4	
R04	9.20	-2.4	
R15	1.00	5.8	Top Bank
L02	10.70	-3.9	
L13	11.80	-5.0	Water Edge
12+50	8.30	-1.5	
R02	7.10	-0.3	
R13	5.90	1.4	
R16	4.80	2.0	
R25	1.90	1.9	
L03	10.70	-3.9	
L12	11.80	-5.0	
12+63	11.80	-5.0	Water Edge
R13	10.60	-3.8	

(59)

 π
6.85

12+75	11.90	-5.1	Water Edge
R13	10.60	-3.8	
12+87	11.90	-5.1	Water Edge
R13	10.60	-3.8	
13+00	11.80	-5.0	Water Edge
R13	10.40	-3.6	
13+13	11.70	-4.9	Water Edge
R13	10.10	-3.3	
13+25	11.50	-4.7	Water Edge
R13	10.30	-3.5	
13+37	11.10	-4.3	
R04	10.10	-3.3	
R10	5.90	-0.9	
R15	5.80	-1.0	
L03	11.70	-4.9	Water Edge
13+45	9.00	-2.2	
R02	8.20	-1.4	
R09	3.30	3.5	
R11	2.60	4.2	
R13	2.60	4.2	
L02	10.10	-3.3	
L08	11.60	-4.8	Water Edge
13+50	Cont'd Book No. <u>6</u>		P-1

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1 1/2

For Single Track Embankment.

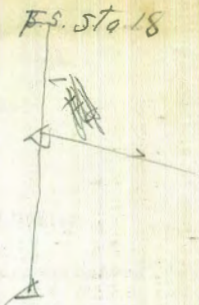
H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be $41.9 + (20 - 16) \div 2$ or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.

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11462.64 Prev 6 - 110°

Sta 18



9+

$$C_0 \rightarrow b + b = 81 \text{ p}$$

