

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	0	.1	.2	.3	.4	.5	.6	.7	.8	9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

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

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Central Angle	DEGREE OF CURVE															
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°		
10°	.03	.06	.09	.13	.16	.19	.22	.25	.28	.31	.34	.38	.42	.46		
15°	.04	.10	.14	.19	.24	.29	.34	.39	.45	.51	.53	.58	.63	.68		
20°	.06	.13	.19	.26	.32	.39	.45	.51	.58	.65	.72	.79	.84	.90		
25°	.08	.16	.24	.33	.40	.49	.58	.67	.75	.83	.90	.99	1.06	1.14		
30°	.10	.19	.29	.39	.49	.59	.69	.79	.89	.99	1.09	1.20	1.29	1.39		
35°	.11	.22	.34	.47	.58	.69	.79	.81	.92	1.04	1.29	1.42	1.54	1.66		
40°	.13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94		
45°	.15	.30	.44	.60	.76	.91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21		
50°	.17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48		
55°	.19	.38	.57	.76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77		
60°	.21	.42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07		
65°	.23	.46	.69	.93	1.16	1.40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39		
70°	.25	.51	.76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72		
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09		
80°	.30	.61	.91	1.22	1.53	1.84	2.15	2.46	2.78	3.10	3.44	3.78	4.12	4.46		
85°	.33	.66	1.00	1.33	1.68	2.02	2.36	2.70	3.05	3.40	3.77	4.14	4.55	4.89		
90°	.36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32		
95°	.39	.79	1.19	1.55	1.92	2.40	2.80	3.20	3.61	4.02	4.40	4.85	5.38	5.83		
100°	.43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34		
110°	.51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4.76	5.31	5.86	6.43	7.01	7.60		
120°	.62	1.25	1.93	2.52	3.16	3.81	4.45	5.11	5.77	6.44	7.12	7.80	8.50	9.22		

FOR EXTERNALS ADD

Central Angle	DEGREE OF CURVE															
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°		
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020		
15°	.003	.007	.010	.014	.018	.023	.027	.029	.032	.035	.039	.043	.047	.051		
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083		
25°	.009	.018	.027	.036	.046	.056	.065	.074	.083	.093	.106	.120	.127	.135		
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188		
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264		
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341		
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445		
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550		
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700		
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851		
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.771	.845	.922	1.01		
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17		
75°	.095	.182	.266	.353	.440	.528	.617	.707	.797	.887	.977	1.07	1.18	1.29		
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62		
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91		
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20		
95°	.174	.350	.522	.706	.885	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58		
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96		
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96		
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32		

Cross Section S.F.O.C. Wabash & Market 1-7
 " " N.E.O.C. " " 8-12
 " " N.F.I.L. " " 14-17
 " " S.F.I.L. " " 18-22
 " " S.M.O.C. " " 23-26
 " " S.M.O.C. " " 27-30
 Cross Sec Wabash Blvd & B Valle Ave. North 31-
 Final Cross Sec 2nd St. Island Ave. to G St. 32-34
 Final Cross Sec S.F.O.C. Wabash & Market 35-41
 " " " N.E.O.C. " " 42-47
 " " " S.F.O.C. to Federal Blvd. 48-52
 " " " N.F.I.L. Wabash & Market 53-56
 " " " Market St 11+52.33 to 20+0 57-59
 " " " Wabash Blvd 99+0 to 93+90 60-65
 " " " NEW LEFT LANE MARKET AT WABASH 9150 TO 13+41 66-67
 " " " 9+41.09 TO 11+06.89
 " " " MARKET ST. RIGHT LANE 68-4+00 TO 5+50
 " " " SW. I.L. WABASH & MARKET 69-70
 " " " MARKET ST 20+50 TO 24+50 71-73

47

2

2+0

$\begin{matrix} 85.8 \\ 9.0 \\ 17.6-C51 \end{matrix}$
 $\begin{matrix} 87.7 \\ 7.1 \\ 11 \end{matrix}$
 $\begin{matrix} 90.3 \\ 4.5 \end{matrix}$
 $\begin{matrix} 92.4 \\ 2.4 \\ 6 \end{matrix}$
 $\begin{matrix} 95.6 \\ +0.8 \\ 20 \end{matrix}$
 $\begin{matrix} 97.2 \\ +2.1 \\ 28.9-C95 \end{matrix}$
 $\begin{matrix} 99.0 \\ +1.2 \\ 10 \end{matrix}$

+75

$\begin{matrix} 89.6 \\ 5.6 \\ 11 \end{matrix}$
 $\begin{matrix} 91.2 \\ 3.0 \end{matrix}$
 $\begin{matrix} 93.6 \\ 1.2 \\ 15 \end{matrix}$
 $\begin{matrix} 96.3 \\ +1.5 \\ 30 \end{matrix}$

+50

$\begin{matrix} 87.1 \\ 7.7 \\ 20.5 \end{matrix}$
 $\begin{matrix} 88.5 \\ 6.3 \\ 11 \end{matrix}$
 $\begin{matrix} 89.4 \\ 5.4 \end{matrix}$
 $\begin{matrix} 91.2 \\ 2.5 \\ 15 \end{matrix}$
 $\begin{matrix} 92.2 \\ 1.6 \\ 26.3-C112 \end{matrix}$
 $\begin{matrix} 95.0 \\ +0.2 \\ 3.5 \end{matrix}$

+25

$\begin{matrix} 86.3 \\ 8.5 \\ 10 \end{matrix}$
 $\begin{matrix} 85.8 \\ 9.0 \end{matrix}$
 $\begin{matrix} 86.0 \\ 8.8 \\ 8 \end{matrix}$
 $\begin{matrix} 88.0 \\ 6.8 \\ 30-HEN \\ 8.59 \end{matrix}$

TP 13.23 94.83 292 81.60

94.83

2+0

$\begin{matrix} 76.3 \\ 8.2 \\ 10-2.29 \end{matrix}$
 $\begin{matrix} 74.5 \\ 10.0 \\ 5.4814 \end{matrix}$
 $\begin{matrix} 76.6 \\ 7.9 \\ 20 \end{matrix}$
 $\begin{matrix} 77.1 \\ 7.1 \\ 30 \end{matrix}$

+87.4° P.S.

$\begin{matrix} 76.6 \\ 1.9 \\ 10 \end{matrix}$
 $\begin{matrix} 76.0 \\ 12.5 \end{matrix}$
 $\begin{matrix} 73.2 \\ 11.3 \\ 20.3-F22 \end{matrix}$
 $\begin{matrix} 74.4 \\ 18.1 \\ 30 \end{matrix}$

1+50

84.52

$\begin{matrix} 67.3 \\ 17.2 \\ 6 \end{matrix}$
 $\begin{matrix} 67.9 \\ 16.6 \\ 84.52 \end{matrix}$
 $\begin{matrix} 70.7 \\ 15.8 \\ 22.6-F37 \end{matrix}$
 $\begin{matrix} 71.9 \\ 12.6 \\ 30 \end{matrix}$

South East Outer Connection
to Market St.

Lx

3

+75

93.59.
1.20
25
6.5
92.4.
11
93.3.
5.5
94.0.
1.9
20
94.6.
1.3
35

+50

84.
1.48
20.00
11.5
87.4.
11
91.5.
7.4
93.9.
5.0
8
93.9.
5.0
21.3=C118
94.4.
1.5
33

+25

83.
91
11 inside
5.6
92.5.
6.3
92.9.
6.0
94.1.
4.8
25
94.5.
4.4
27

4+0

91.3.
7.6
20.2=C82
92.4.
6.5
11
92.7.
6.2
93.7.
5.2
20
101.5.
12.6
27
101.5.
13.7
30.4=C21.4
102.1.
13.8
38

+75

92.4.
6.5
11
92.5.
6.4
12
93.3.
5.7
19
98.4.
2.5
30
99.6.
+0.7
38
99.7.
+0.8
38

+58.33 P55

93.
6.6
22.2=C10.2
92.4.
6.5
11
92.4.
6.5
7
93.5.
6.4
23
99.3.
+0.4
23
99.3.
+0.4
27.0=C20.1
99.5.
+0.6
40

3+25

91.9.
7.0
11
92.5.
6.4
98.94
92.7.
6.2
25
98.1.
2.8
26
98.1.
2.8
30
98.9.
2.9
40

TP 6.51 98.94 2.40 92.43 22.84-12
94.83

Lt Lt Pt

+25

1134.
86
25
1127.
93
15
1113.
107
1080.
140
25
1060.
160
35

TP 1297 121.97 0.54 109.00

121.97

640

1098.
+0.3
27
1062.
3.3
1028.
67
254=C157
91004.
91
40

+75

1066.
29
35
1037.
58
20
999.
96
947.
148
29
951.
144
40

TP 1103 109.54 0.43 98.51

109.54

+50

1023.
+44
13
100.5.
+16
30
989.
00
187=C153
941.
48
918.
71
206=C152
923.
66
34

+2920 = P.T.

989.
20
38
970.
19
38
924.
65
192=C70
905.
84
11
891.
98
889.
100
192=C155
960.
29
206

540

984.
07
18
977.
62
50
900.
89
30
968.
121
20
859.
139
131=C11
855.
124
870.
119
989.
100
15
939.
50
226=C100
951.
38
30

98.94

9894

South East Outer Connections
to Market St

Lt.

S

Rt

5

+50

123.3.
10.0
144.284
123.7.
9.6
30
7.1
126.2.

128.0.
5.3
55.2-63.1
4.1
128.7.
7.5

B.M.

435 133.28

2.39

128.93 Pipe 525R
128.81 8-137.20
(128.93)

133.28

840

124.5.
6.8
31

126.4.
4.9

127.5.
5.8
2.5

128.0.
5.5

128.1.
5.0

+8521 EC.

123.2.
7.1
3.90-63.10

124.8.
6.5

126.3.
5.0
5.51-63.51

126.4.
4.9
4.0

+50

122.0.
9.3
128.3
3.6

121.8.
9.5
2.2

121.2.
10.1

121.6.
9.7
5.30-63.09

121.6.
9.7
4.0

TP

10.08

131.25

0.80

121.17

131.25

740

117.0.
5.0
8

116.2.
5.8

115.0.
7.0
5.01-63.2

115.2.
6.8
4.0

6450

114.7.
7.5
2.0

113.6.
8.4

112.3.
8.7
8.99-63.17

112.2.
9.8
9.0

121.97

121.97

11+0

1374.
7.2
30
Cut
1372.
7.4
30
1356.
9.0
30
1358.
8.8
36.2-33.9
45
1363.
8.3
45

+50

1348.
9.8
30
Cut
1342.
10.4
11
1334.
11.2
1321.
12.5
20
1321.
12.5
38.0-33.9
45
1321.
12.5
45

TP 12.71 144.55 1.44 131.84

144.55

+19.71 P.S.S.

1323.
0.8
21
Cut
1310.
1.3
1300.
0.2
25
1308.
2.5
45

10+0

1305.
2.8
33
Cut
1303.
0.0
1285.
4.8
25
1285.
4.8
36.2-34.5
45
1271.
4.2
45

+50

1297.
8.6
30
Cut
1291-3311
8.2
30
1249.
8.4
1250.
7.7
25
1276.
5.7
36.2-34.5
45
1271.
5.6
45

9+0

1261.
17.6
50
1288.
14.6
48.3-45.8
25
1288.
12.5
25
1237.
9.6
1253.
8.0
20
1270.
6.2
36.2-34.6
45
1278.
5.5
45

13328

13328

South East Outer Connection
to Market St.

RT

8.21

2.77

148.35 12+01.52
148.33
3284-18

Stub Pt.

+13

1411.
11.0
8:30
Cut. Top

1431.
9.0
8:30

1451.
7.0
8:30

1472.
4.9
7:45

12+0162 P.T.

1414.
10.7
6:30
Top Cut.

1430.
9.1
8:30

1448.
7.3
8:30

1466.
5.5
7:45

+75

1403.
11.8
15:30
Top Cut.

1426.
9.5
7:45

1442.
7.9
8:30

1448.
7.6
7:45

TP 920 152.09 166 142.89

152.09

11+50

1359.
7.7

1389.
5.7
8:30
Top Cut.

1394.
5.2
8:30

1404.
4.2
8:30

1411.
3.5
7:45

144.55

144.55

Cross Section North East Outer
 Connection to Market St. + Sabath Blvd.

May 19. 53
 H. Sisson L. South
 Garber
 Chipman
 Parks
 Kelley

RT: North 8

+75

1223.
 21.4
 6
 1224.
 21.5
 6
 1220.
 20.7
 6
 1267.
 17.0
 9
 1205.
 15.2
 15
 1238.
 5.4
 17
 1289.
 4.8
 33
 1289.
 4.8
 40

+55

1227.
 21.0
 8
 1227.
 21.0
 4
 1227.
 21.0
 8
 1227.
 20.0
 8
 1256.
 8.1
 18
 1259.
 7.8
 30

TP

13.09 192.65 0.01 130.56

193.65

+42

1223.
 8.26
 607.94
 1228.
 7.5
 Walk
 1234.
 7.8
 10
 1229.
 6.7
 20
 1254.
 5.0
 30

140

1225.
 8.05
 73-EP
 1227.
 7.9
 1
 1222.
 7.4
 13
 1249.
 5.7
 13
 1253.
 5.3
 197-c.123
 1258.
 4.8
 30

+50

1221.
 8.48
 47-EP
 1220.
 8.1
 30
 1220.
 8.2
 30
 1229.
 7.7
 7
 1241.
 6.5
 12
 1235.
 7.1
 30.2-c.91
 1235.
 7.0
 30

0 + 00 = opp 22+18.94 Market St

1215.
 9.19
 41-EP
 1214.
 9.6
 2
 1214.
 9.2
 2
 1223.
 8.3
 30
 1223.
 8.3
 198-c.66
 1225.
 8.0
 30

130.57

B.M.

8.40 130.57

pipe 99' 18"
 22+18.94
 Market St

240

+75

+55

+4287 P.S.S

+25

TP 10.45 153.64 0.46 143.19

240

143.65

145.3
83
19
50
CUT

144.7
8.9
9
50
CUT

144.3
9.3
8
50
CUT

150.6
93.0
6

120.4
33.2
20

121.5
22.2
13

153.64

143.65

146.8
68

145.5
8.1
7.5

145.3
8.6
20

151.1
22.5

128.6
25.0
4

123.7
20.0

148.7
49
30

146.6
7.0
38

146.3
8.4
30

146.5
10.1
11

131.7
21.9
13

129.6
14.2
8

149.5
4.1
2.5
CUT

147.6
6.0
50

146.6
5.4
50

155.5
8.1
30

143.7
9.9
25

141.1
26
19

149.7
3.9
50

148.0
5.6
50

147.4
6.2
50

146.2
7.4
388
CUT

144.6
9.0
40

141.8
1.9
3.0
CUT

144.2
5.0
50

North East Outer Cann.
to Market St.

+5878 P.S. Rl.

TP 1.32 140.58 12.47

5725

+8974 = PT

+50

TP 4.74 151.72 6.65

470

5750

153.64

139.26 ^{0.25} 5750 ^{0.97} 5750

146.99 ⁵⁷⁵⁰ 740 ^{17.05} 740

May 28. 53
1755.00
Garber
Chipman
Parker
Keller

60/1325

6.4/15

5/1355

5.0/25

1.3/132.05

0.7/139.9

140.58

157/35

14/20

12/10

10.5/25

8.7/44.05

7.3/80

132/20

9.3/20

5.2/25

2.7/26.5

1.7/80

106/41

8.3/30

5.1/5

2.1/25

1.4/20.4

0.7/80

151.72

139/65

128/56

103/40

8.7/20

6.6/20

4.6/20

2.4/20

2.0/65

117/65

110/53

102/40

6.4/20

5.6/20

3.1/20

2.8/55

153.64

750

TP 335 120.65 18.10 117.50

725

710

785

TP 204 130.40 12.22 128.36

750

670

140.58

Lt.

Rt.

11

6.2
11

5.4
11

5.0
20

5.6
381-441

0.7
50

120.65

11.6
25

11.9
20

10.8
20

9.8
40

9.5
50

10.6
49

8.7
30

8.6
11

8.4
20

7.8
20

7.4
389-428

7.0
50

8.2
40

7.8
20

7.3
20

4.3
48

3.8
50

130.40

14.2
50

13.9
38

14.9
26

12.2
23

12.5
23

10.9
409-448

9.9
50

10.1
50

8.8
52

7.9
52

7.1
52

5.5
421-461

4.5
54

140.58

TP 1320 108.27 0.61 95.07

+75

+50

+20.58 P.C.S.

TP 0.35 95.68 12.35 95.35

8+0

TP 0.13 107.68 13.10 107.55

7+75

120.65

Lt.

8

Rt.

12

94.0
17 11 30 95.7
15 18 90.0
53 287.045
89.4
75 88.4

77.4
18.3 11 77.1
18.6 10 79.8
15.9 8.1
228.067
84.6

85.8
9.9 11 89.9
5.8 12 95.5
+1.5 280.040
97.6
+3.6 89.3

95.68

96.5
11.3 7.7 100.0
10.1
10.53
10.58
10.65
12.0

107.68

106.8
13.9 11 108.4
12.3 9.5 111.2
8.3 20 112.5
113.5
72 107.7
55.7 16

120.65

North East Outer Conn.
to Market St

H.

Z

R.

13

For check

3.3

117.3

0.7 Cut Slab
9+50 0.7 R

83.0 Grad
3.4 Cut
115.7

+50

998.
208 112 81 41 20 32 33 5.4
8 11 17 39 45 67.2 544 75 117.2

+25

1043.
121 108.5 104 109.5 108.2 105.9 104.9
30 30 25 62.5 204 70

TP 1267

120.66

0.34

107.93

120.60

9+0

1063.
20 24 991 955 955
8 38 12.8 12.8
585 0.715 63

108.27

108.27

Cross Section North East Inner Loop
At Market St. + Yabashi Blvd.

Lt. W

S

Rt. E

14

TP 12.19 135.60 0.20 123.41

+25

4.7 1189.
7.0 1286.
8.0 1305.
27 1209.
16 1220.
19 1217.
22 1214.20 10
10 80

+40

5.9 1177.
10 1176.
6.0 1176.
4.7 1189.
3.6 1197.
2.8 1208.
2.6 1210.
1.5 1225
70

+75

7.8 1158.
7.1 1165.
7.2 1164.
5.7 1183.
3.8 1198.
3.7 1203.
2.9 1203.

+32.13

8.7 1149.
8.5 1151.
8.7 1149.
7.5 1161.
4.9 1187.
4.3 1193.
3.6 1204

+10

9.1 1145.
9.1 1145.
2.8 1158.
5.7 1179.
4.6 1190.

0+0

9.3 1143.
17.6 1060.
19.1 1045.
18.2 1064.
8.7 1119.
7.4 1162.
5.0 1181.
4.6 1193.
3.1 10
19

B.M. 240 123.61

on Rad. Hub
NE 1/4.

123.61

24

25

Rt

15

+75

113
11

125
30

142
25

169
30

182
25

190
25

144.45

TP

12.68

144.45

3.82

131.77

on Hub
276.25

+50

117
11

131.9
11

149.5
20

178
20

196
20

215
20

234
20

+25

117
11

132.3
11

150.8
20

179.3
20

207.8
20

236.3
20

+70

117
11

137.8
11

156.3
20

174.8
20

193.3
20

211.8
20

+75

101
11

125.9
11

149.7
20

173.5
20

197.3
20

221.1
20

+50

117
11

137.6
11

157.4
20

177.2
20

197
20

216.8
20

135.60

135.60

North East Inger Loop
H Market.

450

425

440

475

450

425

440

14445

45

2

16

167
155
270

90
57

51
16

84
20

83
24

28
11

80
11

175
175

154
25

134
25

117
20

100
25

93
25

105
25

190
25

179
25

154
25

124
20

130
25

128
25

141
25

211
250

198
50

180
42

157
40

167
50

167
50

166
50

211
270

198
75

180
60

190
80

185
120

190
75

180
80

211
270

206
75

201
75

196
75

193
75

190
75

190
75

14445

64.

65.

66.

17

+69.38 = F.C.

+50

+25

TP 0.20 119.42 12.65 119.12

+570

+75

TP 0.05 131.77 12.73 131.72
144.45

estimated
52 ft.
51.69.38
2884.51

(110.96)

974.
22.0
17
105.4.
14.0
21 = Top
Cut
13.9
55
110.9.
8.5
52 = 0.00
5.7
70
112.7.

1019.
17.5
21
111.2.
8.7
18 = Top
Cut
109.7.
9.7
10
114.1.
5.2
80
115.4.
3.0

1088.
10.6
25
116.8.
2.6
28 = Top
Cut
117.6.
1.8
50
118.4.
1.0

119.12

1146.
17.2
17
1226.
9.2
19 = Top
Cut
1218.
19.0
20
1215.
10.3
588 = 0.00
11.4
70
1204.

1249.
1342.
26
25
1249.
8.9
50
1220.
7.8

131.77

Cross Section South East Inger Loop
 At Market St. + Maback Blvd.

H-N

RT-5
 May 25 58
 H. Simon
 Garber
 Chipman
 Parks
 Kelley

+25				109.7 13.4 25	110.6 12.5 11	111.8 11.2	114.1 9.0 15	116.0 7.1 32	116.8 6.3 50	118.1 5.0 75	118.6 4.5 85	
1+0				107.4 10.7 26	107.4 15.7 10	108.6 14.5	110.4 12.7 12	114.0 9.1 38	116.0 7.1 50	117.7 5.4 76	118.2 1.9 85	
+75				103.2 19.9 11	107.5 15.9	107.5	110.7 12.4 15	113.9 9.2 35	115.7 7.4 50	116.8 6.3 70	117.7 5.1 85	
+50				105.9 17.2 25	106.7 16.1	106.7	109.5 13.6 10	112.0 10.8 25	112.9 9.2 40	115.5 7.1 60	117.1 6.0 75	117.5 5.6 85
+25						98.7 20.4	98.7 24.9 7	110.7 12.4 14	113.8 9.3 50	114.1 9.0 50	116.4 6.7 70	117.2 5.2 85
0+00 - Opp 15+2158 Market St						88.1 25.0	108.1 15.0 14	112.1 11.0 27	112.2 9.9 50	113.8 9.3 57	116.6 6.5 76	117.0 6.1 85
BM	2.45	123.14			07 140R H06 120.69 SELL		123.14					

Lt.

L

Rt.

+75

48	47	51	43	47
20	20	20	20	25
1214	1207	1202	1211	1207

+50

18	29	44	45	45	45
20	20	20	20	20	25
1239	1225	1210	1209	1209	1209

+25

22	20	42	47	47	47
20	20	20	20	20	25
1232	1224	1212	1207	1207	1207

TP 3.03 12539 078 12236

12539

+10

48	40	42	29	41	41
20	20	20	20	20	25
1241	1231	1218	1228	1201	1203

+75

47	50	40	44	43	45	30	37
20	20	20	20	20	20	20	25
1184	1181	1191	1187	1188	1186	1201	1197

+50

40	40	40	40	40	43	40	40
20	20	20	20	20	20	20	25
1125	1124	1131	1145	1151	1169	1182	1180

12314

12314

South East Inner Loop
 Ft Market St.

Lt.

S

Rt.

20

+25

1066.
 188
 11
 1085.
 130.
 121
 20
 146.
 108
 35
 154.
 100
 50
 1160.
 91
 85

410

1104.
 150
 11
 1118.
 126
 1135.
 149
 15
 149.
 105
 30
 1157.
 97
 578
 80
 1163.
 91
 80

+75

1183.
 121
 11
 1141.
 113
 1153.
 101
 20
 1165.
 89
 40
 1173.
 81
 85

+50

1155.
 99
 11
 1159.
 95
 1161.
 90
 30
 1149.
 85
 40
 1176.
 78
 583
 85
 1188.
 73
 85

+25

1165.
 89
 18
 1165.
 89
 1176.
 82
 20
 1181.
 70
 40
 1193.
 61
 85

340

1177.
 77
 18
 1180.
 74
 1186.
 68
 20
 1194.
 60
 40
 1200.
 54
 554
 85
 1204.
 50
 85

12589

12589

+75

21.6
17.8-55.8
95.5
18.8
11
98.2
25.3
19.9-51
50
107.1
80
30
111.4
12.7
12.7
67

+50

19.9
19.6-98
95.5
17.3
11
97.8
47
100.9
10.0
20
107.5
47
10.4
11.7
1.4
57.6

+25

19.5
20.1-68
95.5
17.2
11
97.9
14.0
101.1
10.5
15
104.6
5.9
36
108.2
6.5
60
103.5
8.0
115.1

TP 0.553 115.10 10.82 114.57 07 R.P. 86.4 R.P. 5+0

115.10

5+0

39.0
20.9-68.9
95.5
26.9
11
98.5
33.9
101.5
21.8
10.8
108.8
17.7
35
107.7
18.1
40
12.3
11.4
67
114.0
10.1
85
115.3
60.4

+75

24.2
11
101.2
21.1
103.8
17.2
67
108.8
12.7
35
112.7
11.4
50
114.0
19.0
66
115.4

4+50

21.8
11
100.6
19.0
106.4
14.2
20
112.1
11.7
10
113.7
10.9
8.5
114.5
19.1
60
115.3
85.2
52.8

125.29

125.59

South East Inner Loop
 At Market St. + Wabash Blvd.

Lt.

Z

Rt.

22

+94.94: Opp 82+17.57 yabash

11.4
 6
 1007.
 12.5
 1022.5
 8/5
 1070.
 58/50
 1096.
 22/25
 1129.
 +0.1
 55=TOP
 CUT
 1155.

+74.30

17.9
 6
 977.
 16.1
 990.
 12/5
 1025.
 87/50
 1064.
 27/48
 1124.
 +0.1
 58=TOP
 CUT
 1155.

+50

21.1
 11
 987.
 17.8
 993.
 11/5
 1026.
 57/40
 1094.
 37/50
 1120.
 50/50
 1150
 CUT
 1155.

+25

22.7
 30
 984.
 19.8
 953.
 16.1
 987.
 11/2
 1029.
 68/35
 1083.
 30/50
 1121.
 57/50
 1150
 CUT
 1155.

+0

22.1
 30
 980.
 17=05.0
 20.9
 15
 942.
 16.1
 984.
 11/2
 1041.
 64/50
 1087.
 37/50
 1114.
 55=TOP
 CUT
 1155.

11510

11510

Cross Section Southwest Inner Loop
 Ft Market St. & Yabashi Blvd.

June 9. 53
 H. S. 5.50
 Garber
 Chipman
 Parks
 Kelley

+25

5/8
 12/11
 8098
 147/15
 598
 162/34
 578
 149/45
 571
 110
 629

170

6/29
 11/7
 8279
 131/15
 619
 133/30
 709
 94/38
 646
 159
 81/8-PM2
 755
 1616

TP 100 7403 1266 7503

74.03

+75

8/29
 8/6
 804
 204/15
 899
 247
 159
 206/15
 149
 186/34
 168
 625
 167
 1670

+50

7/29
 8/29
 1570
 147/15
 710
 132/30
 725
 126
 893-PM2
 127
 1270

+2770

12/8
 8/29
 121
 109/16
 748
 97/28
 758
 95
 797

0+0 - opp
 82+0/1.24 Yabashi

8/29
 8/29
 804
 1570
 126
 893-PM2
 127
 1270

BM 1266 8569

2284-46
 6750
 2284-46

8569

South West Inner Loop
 #7 Market St.

Lt.

2

Rt.

+75

18.9 11	18.5 11	17.5 23	14.1 30	11.6 35	9.8 50	2.1 59
-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	----------------------	----------------------

+50

15.7 11	15.2 11	14.0 11	11.4 38	10.3 41	8.0 48	1.6 60
-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	----------------------	----------------------

+25

13.6 11	13.1 11	12.7 8	12.4 27	10.5 30	1.8 48	1.2 80
-----------------------	-----------------------	----------------------	-----------------------	-----------------------	----------------------	----------------------

TP 0.40 61.74 12.59 61.34

61.74

240

23.5 11	22.6 11	22.3 14	22.6 32	18.8 34	15.0 47	12.9 80
-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	-----------------------

+75

14.9 11	13.5 11	12.3 13	12.2 26	12.9 36	12.5 47	12.2 80
-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	-----------------------

1+50

14.1 11	13.5 11	16.5 10	17.5 27	18.6 40	14.5 53	12.2 60
-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	-----------------------	-----------------------

7403

74.05

60.24

Lt.

S

91

+35

12.5	14.2	18.0	19.1	35.3
19.2	17.5	13.4	12.6	6.7
11		15	34	71

+40

10.2	11.6	10.7	4.7	4.4	1.3	5.47
21.5	20.1	18.0	14.0	13.1	12.1	7.0
11		18	26	57	13	61

= F87

+75

39.4	39.3	41.4	4.8	4.1	5.0	5.33
22.3	22.4	20.2	19.9	15.6	15.1	8.0
11		28	41	43	46	50

+50

10.5	3.1	4.3	1.7	1.1	1.1	1.22
21.2	22.6	20.4	19.0	15.1	16.1	9.5
11		22	41	42	47	80

= F173

+30.87

4.6	4.5	4.4	4.8	4.5	5.0	9.7
21.1	20.2	19.3	18.9	16.2	11.3	6.0
11		20	37	45	51	

+30

8.48	4.4	4.0	4.4	2.0	2.5	8.5
20.9	20.3	19.7	17.5	11.1	8.0	6.0
11		19	35	46	51	

= F169

61.74

61.74

South West Inner Loop

BM TP # 2284-16 3.11 92.45 (92.43)

+70.64 EC

TP 12.42 95.56 1.22 88.14

+29.29

TP 13.14 84.27 0.74 71.23

5+0

+7.5

TP 12.53 71.97 2.30 59.44

4+50

61.74

Lt.

Rt.

Rt.

26

74.1
21.5
11
78.5
17.1
23.6
89.0
55.9
55.9
8.2
5.1
87.4
8.2
64.1-0.217
8.6
8.0

95.52

70.0
11.4
11
75.8
8.6
7.6
7.8
5.6
5.1
5.1
7.8
6.4
1.5
59.1-0.212
7.8
7.8

84.37

65.9
12.6
11
62.0
10.0
5.6
6.4
4.6
4.6
3.1
4.8
3.1
3.2-0.122
11.1
0.9
6.0

57.0
21.0
11
53.8
18.2
5.7
4.7
6.1
11.7
2.7
6.9
13.9
8.1
7.0
7.0
1.0

71.97

61.79
13.8
11
4.8
13.0
1.5
1.0
6.5
10.8
8.0
8.0
10.7
3.0-0.21
4.8
1.5
1.5

61.74

Cross Section South West Outer Canal
to Market St. + Yabashi Blvd.

Taken after clearing

June 16, 53
H. S. J. 100
Scriber
Chapman
Parke
Kelley

RT = 5.11/4 27

+50

58.7
11.7
6
58.8
11.6
58.4
12.0
20
58.7
11.0
58.8
11.5

+40

59.4
11.0
59.5
10.9
58.4
12.0
21
58.5
11.1
58.7-58.8
11.5

+50

40.1
10.2
40.2
10.2
39.6
10.8
20
39.8
11.1
39.9-40.0
11.5

+30

39.3
11.0
39.4
11.0
39.4
11.0
39.7
11.1
39.7-39.8
11.0
39.7
11.0

+75

38.6
11.8
38.7
11.7
38.5
11.9
14
38.8
14.6
20
38.7
14.2
38.7
14.5
38.7
14.7

2+60.12

BCRT

38.7
11.7
6
38.4
13.0
38.0
12.4
15
38.5
14.5
21
38.5
14.5
40.3-40.5
15.0
38.7
14.7

BN

265

50.39

25 Car
Market
47.74 + Chollas
Bridge

50.39

640

+75

450
2 offset 12 Feb.

TP 12.13 51.89 10.63 39.76

+37.98

540

4+67.82 FC

50.39

Lt.

Δ

Rt.

Δ

~~111~~ 408

~~111~~ 408

~~111~~ 408

~~111~~ 408

~~111~~ 408

~~111~~ 408

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51.89

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~~111~~ 408

~~111~~ 408

50.39

South West Outer Connection
to Market St.

8+0

TP 13.18 77.17 0.20 63.99

+7.5

+48.77 B.C. RT

7+0

TP 12.42 64.19 0.12 57.77

+7.50

+18.82 FC

51.89

Lt.

Rt.

29

670
10.2
11

613
15.9
15

517
25.5
20

17.7
15.0

33.9
74.1-536.7

116
85

77.17

619
20.2

607
20.5

602
20.4

576
11.6

549
20.3

542
20.0

498
20.0

457
20.5

426
21.6

408
20.2

607
35.5
18

602
40.0

592
50.0
12

564
7.8

514
12.8
20

490
33.2
50

447
19.5
50

415
22.7
75.0-532

401
24.1
85

552
9.0
18

532
11.0
28

515
12.7
16

482
16.0

441
20.1
40

427
24.5
40

410
23.2
80

381
25.5
79.8-531

381
26.1
90

64.19

472
4.7
25

441
7.8

423
9.6
25

406
11.8
50

385
13.4
80.3-535

381
13.0
90

452
21.7

436
8.2

423
8.9

409
11.0
30

397
12.0

388
12.8

381
80.2-534

375
14.4
90

51.89

Lt

B

Rt.

30

BM

18.25 ^{TP 22845} 46.46 46.46

TP 0.34 64.71 12.80 64.37

+ 34.32 F.C. - Opp 78+49.68 POC
Wabash

719 700 682 668 658 647 637
53 72 90 134 204 255 295 315
11 12 25 40 52 65 75 85

+25

718 700 665 654 640 627 610
54 72 119 128 150 187 210
20 30 50 82 95

9+0

646 618 571 521 479 468 458
126 154 201 251 293 314 314
11 20 40 67 75

+75

685 663 614 585 519 474 458
87 109 158 187 253 298 306 316
22 35 50 85 85

+50

748 721 660 573 482 451 431
21 51 112 199 290 321 341 341
20 40 60 71.8 85 85 85

8+25

704 647 590 507 467 447 424
41 68 125 182 265 310 330 341
18 30 50 85 97 85 85

77.17

77.17

Cross Section Hobart Blvd. Sec. B
 Vallejo North
 Sta 42+00.51 to

June 26-53
 F. Dixon
 Garber
 Chipman
 Parker
 Kelley

Rt. = East

31

For Check

5.3

18.4

on Sta 281.91
 4375.14
 2286.88
 18.5

44+0

16.2 16.7 17.8 20.0 21.9 23.6
 75 70 58 90 120 74.3

45+0

15.7 16.1 17.0 17.7 18.3 19.0 19.7 20.8
 8.0 2.6 6.7 6.0 5.4 4.7 4.0 2.9
 33 27 50 73 100 128 153
 Slope 1/20

43+0

15.5 15.8 17.6 18.2 19.3 19.7 19.9
 82 79 62 55 44 39.7 3.88
 23 50 90 124 153.7 162.2
 Slope 1/20 Conc. 1/20 of Foot

43+0

16.2 15.6 16.9 17.9 18.6 20.6 21.1
 8.5 8.1 6.8 5.8 5.1 2.1 2.6
 26 30 90 117 146 162
 Slope 1/20 1/20 of Foot

450

14.8 16.2 17.1 18.6 20.1 21.5
 89 75 66 5.1 3.6 2.2
 52 65 104 140 157
 Slope 1/20 1/20 of Foot

42+00.51

14.4 15.7 17.1 20.0 20.8
 93 80 6.0 2.7 2.9
 30 100 150 163

B.M. 4.48

2273

1925

on Ring M H
 Occazy Jaw
 + 3 1/2 ft
 2282-10

2273

Final Cross Section 3614 St.
Island Ave to G St.

Used Self Reading Rod

+87.75

Slope Grader #2282-18

1282 1214 1216 1209 1207 1212 1203
253 20 10 10 20 23

+47.75

1292 1237 1238 1215 1231 1227
26 22 10 10 20.5

+07.75 P.V.C.

1291 1236 1237 1238 1235 1229
25 22 10 10 25

0+75

1215 1229 1234 1234 1231 1229
25 22 10 10 25

0+00 = N.A. blind

BM

N.W. BP.
109.00 Market
+3614 St.

Lt. W

L

Rt. E

36
Oct 28-54
H.S. Sisson
Garber
Chipman
Parks
Kelley

Final 3816 St.

33

St.

Δ

Rt.

A + 01.85 = Opp Cb E.C. on Lt.

1242	1124	1128	1126	1134	1139	1265
34	29	10		10	26	27

5-Bench

U + 85

1108	1101	1103	1115	1118	1118	1122
34	26-cb	26	10		10	22

+ 80

1119	11208	11146	1120	1122	1125	1134
32	26-cb	23	10		10	27

+ 67.75

1280	1132	1136	1131	1131	1144	1227
37.5	30	10		10	25	34

2127.75

1371	1311	1180	1182	1173	1172	1177	1228
36.5	34.5	25	10		10	20	27

Final 36th St.

B.M.

+33.87 = 10.50 + 17.05
52.95

147.20 Core Mon
29.57
W. 36th
(147.10)

Lt. W

8

Rt. F

34

144.5 144.8 144.0 144.2
24 21 10

6+0

144.3 140.1 138.9 139.1 139.6
24.5 21 18 15

7+50

139.9 137.5 131.9 132.3 132.5 132.8
25.2 20 10 16.5

5+0

136.4 126.2 125.5 125.5 125.6 126.1 128.6
25.2 20 10 19 24

+75

134.9 133.4 122.6 122.6 122.1 122.6 128.8
26.2 21 10 20 24

+50

140.5 120.0 119.0 118.9 119.1 119.6 128.3
30.7 20 10 10 20 24.6

4+25

138.4 116 116.1 118.4 116.4 116.4 127.5
25.2 25 10 10 20 25

Final Cross Section
South East Outer Connection to Market St.

Used Self Reading Rod

See Page 1-7
For Original Sections

Rt: East

35
Oct 1954
H. Simon
Gorham
Chapman
Kelley

+25

7404 7256 734 784
=HC 139 18 22

+40

7330 7266 722 888
138 172 254 = Topcut

+75

7241 7188 714 788
138 = FH HC 22

+50

7168 7117 707 737
=HC 138 = FH HC 187 = Topcut

+25

7095 7042 700 707
=HC 137 = FH HC 16 18

0+0 = Opp 74+0 Habarsh

7030 6990 697 711
=HC 117 = FH HC 19

B.M.

S.E.D.S Drop
80.78 17 lot 2
79 +05

Final South East Outer Conn.

Lt

d

Rt.

36

+75

795 786 7928 7872 7733 771 958
 14 11 11.5-EP 7c 15.1-EP 7c 29: Top cut

+50

774 781 7798 7696 764 934
 12 5.8-EP 0.0 14.8-EP 18 21.8-Top cut

+25

7724 7661 761 827
 6.0 14.1-EP 180 23: Top cut

2+0

7642 7599 758 780
 13.7-EP 19 21.0

+8740 P.S.

7691 7549 754 736
 15.1-EP 19 25

1+50

7482 7435 747 727
 7c 16-EP 18 25

Final South East Outer Conn.

Lt. Lt. Rt.

+50

884 864 840 8394 8337 8205 817 93.9
 50 25 11 6-EP 0.0-AC 15.5-EP-AC 18 24.5-TopCut

+25

828 865 838 8360 8287 8121 808 94.7
 50 25 11 6-EP 15.9-EP-AC 19.5 25

+10

861 838 8298 8225 8051 801 101.3
 25 11 8-EP 16-EP-AC 20 25

+75

851 829 8228 8161 7988 795 99.8
 25 11 5.8-EP 16.5-EP-AC 20 29.0

+5833 P.S.S

845 825 8186 8114 7942 789 99.3
 25 11 5.8-EP 16.5-EP-AC 20 29.6

+25

827 804 8088 8022 7845 777 92.4
 20 11 6-EP 16.3-EP-AC 20 30

+30

810 796 8007 7947 7728 774 97.6
 15 12 6-EP 0.0-AC 15.8-EP-AC 20 30-TopCut

Lt D Rt.

+25

886 868 869 8717 8786 874 108.0
17 11 5.5-11.2 147-FHAC 17 25.5-TSPC

6+0

884 865 8646 8657 8725 867 1027
20 11 6-EP 145-FHAC 17 243

+75

880 864 866 8611 8640 857 916
25 11 5.5-EP 144-FHAC 17 270

+50

871 856 8562 8558 8560 854 918
25 11 6.2-EP 140-FHAC 17 207

+2920 P.T.

869 852 8420 8530 8491 846 869 898 951
25 11 6-EP 140-FHAC 16 19 27 33

5+0

877 867 849 8482 8454 8382 834 942
50 25 11 6-EP 142-FHAC 17 200

4+75

878 864 845 8438 8388 8293 825 944
30 25 11 6-EP 00-11.0 142-FHAC 18 238-TSPC

Lt.

B

Rt.

40

+75

10777 10752 10814 10827 1443
81-Gut 81-cb 19 377-Topcut

+50

10628 10590 10652 10664 1019
83-Gut 83-cb 19 361

11+0

10288 10226 10288 1020 1358
92-Gut 92-cb 20 382

+50

1008 10096 10028 9948 9846 9908 992 1320
11 8-Topcut 8-6cbs 11-Gut 11-cb 21.5 380

+19.41 RFS

985 985 9840 9769 9630 9191 973 1302
25 11 62-EP 12.5-Gut 12.5-cb 23 36.4

10+0

971 976 9732 9668 9491 9552 962 1294
33 11 58-EP 16-Gut 16-cb 21 370

9+50

920 946 951 9494 9450 9385 928 1277
27 30 11 60-EP 8079 19 365-Topcut
Shoulder
No. 19

Final Cross Section
 South East Outer Conn. to Market St.

Lt.

L

Rt.

41

B.M.

109.01

M.M.R.P.
 Market St.
 + 3.120'
 (109.00)

+ 35

110.24
 0.0

110.17
 9.5 Gut.

111.34
 9.2:cb.

111.9
 19'

+ 15

109.80
 0.0

109.59
 8.5 Gut.

110.20
 8:cb

110.5
 19'

115.4
 36" Top
 Gut.

12+01.12 P.T.

109.23
 0.0

108.98
 8.5 Gut.

109.65
 8:cb

109.7 - 145

36" Top
 Gut.

Final Cross Section
North East Outer Connection to Market St.

Lt.

Nov. 4-57 46
A.S. 1000
Rt. Garber
Chipman
Kelly

For Original See Page 8 Slope Grades 2284-52
Bench Grades 2282-51

+15

110.20 110.12 110.80 112.5 115.5
8'-FC 15'-C-FC 15'-C 32 50
9'4"

+25

111.20 110.99 112.0
13'-N-FC 35'

+94

112.80 112.35 112.0 113.6 113.8
14' 16.5 18 25

+89

112.02 112.61 112.2 125.3
14'-FC 18 22'-Top of

+50

114.47 114.12 113.8 122.5
14.2 16 20.2

0+00 RS Opp 22+18.24 Market St.

116.49 115.63 115.0 127.6
9'c 14'-N-FC 16.5 20'-Top of

B.M.

N.Y. B.P.
109.00 Market x 22.84

H. Z Rt. 43

+75

1018 1029 10398 10235 10114 1010 1213 1706 1498
296 125 61-EP 0.0 15-44 17 287 507 855-70-54

+63

1048 1045 10361 10303 10180 1020 1220 1216 1495
35 25 61-EP 0.0 145-44 17 270 515 851

+55

1050 10408 10351 10243 10308 1033 1222 1217 1492
25 62-EP 0.0 125-94 128-cb 17 265 510 848

+43.87 P.S.S.

10553 10474 10418 10310 10371 1039 1228 1220 1472
16 63-EP 0.0 110-94 113-cb 17 268 518 841

+25

1071 10671 10652 10528 10450 10510 1051 1238 1229 1450
17 8-cb 7.8-94 0.0 89-94 9.1-cb 17 271 511 827

2+0

1086 10813 10747 10680 10618 10683 1069 1251 1242 1423
14 9-cb 8.7-94 0.0-7c 8-94 8-cb 17 281 501 586

1+61

10933 10882 10948 1097 1257 1255 1386
0.0-7c 8-94 8-cb 17 276 476 537

Final Cross Section
North East Outer Canal to Market St.

Lt.

z

pt.

44

+63

958 945 979 9284 9270 9250 922 1102 1102 1514
38 17 18 82.5P 0.0 138.5P

+50

1090 923 9245 9231 9226 928 1161 1108 1516
337 14 83.5P 8.0 139 175 334 47.4 67.5

+31

1243 940 9140 9434 9276 927 1114 1118 1525
429 13 83.5P 8.0 137 175 329 47.4 67.5

+10

1261 959 9593 9574 9513 949 1132 1133 1574
419 12 86.5P 8.0 143.5P 175 332 47.7 66.2

+50

1219 984 9867 9825 9750 973 1167 1162 1573
403 12 83.5P 0.0 140.5P 175 36 48 65.0

3.10

1236 1016 10174 10098 9972 997 1203 1193 1499
33.8-Top Cat 12 59.5P 8.0-FC 147.5P 17 29.5 49 64.7

Lt.

Σ

Pt.

785

825	829	837	8251	810°	80°	1002	993	1257
25	15	58.2P	0.0	146	18	267	467	576

750

851	847	844	8451	8406	8287	818	1062	1005	1322
38	25	15	6.1-EP	0.0	14	18	266	466	627

640

869	867	8648	8629	8571	852	1032	1026	1359
25	15	6-EP	0.0	48	175	271	471	632

+5878 = P.S.

894	894	887	8841	8826	8795	877	1054	1053	1405
26	19	18	6.0-EP	0.0	122	175	264	474	644

5725

913	910	901	8994	8979	8955	894	1075	1074	1460
25	19	18	6.2-EP	0.0	138	175	265	475	664

4+8774 P.T.

911	905	918	9112	9154	9137	912	1095	1088	1503
30	18	17	6-EP	0.0	174	175	272	467	676

Nov. 8.54

Lt.

E

Pt.

46

+20.58 PCS

789	779	7786	7742	7612	759	938	936	1026
11	8	5.5-EP	6.0	143-EPAC	18	26.3	478	57.4

840

7797	7828	7811	7679	765	958	946	1079
107-EPAC	6.5-EP	6.0	143-EPAC	178	272	477	53.7

+75

781	799	7764	7887	7761	775	972	953	1125
117-EPAC	11	6.1-EP	6.0	143-EPAC	18	27.5	47.5	56.2

+50

784	807	8084	7988	7851	782	979	967	1169
21-EPAC	11	6.5-EP	6.0	143-EPAC	18	27.3	47.8	58.9

+25

805	8157	8080	7947	790	990	976	1203
25	6.5-EP	6.0	143-EPAC	18	27.5	47.5	58.6

740

816	816	826	8252	8185	8041	798	997	986	1232
49	30	11	8.5-EP	6.0	143-EPAC	18	26.6	47.1	59.5

Final Cross Section
North East Outer Cann. to Market St.

Lt

R

Rt

+50

7293 7291 7271 725 849 840 1172
6.40 0.0 138.5 18 29.5 51.0 67.5

+25

7388 7380 7351 732 872 855 1071
6.40 0.0 137.5 17.5 29.7 52.2 62.9

B.M.

7424
H.S.F. Col
Drip/plot 2
90.10
(7422)

+0

7481 7469 7449 740 890 868 960
11.40 0.6 14.5 17 30.9 54.9 60.0

+75

7593 7559 7525 740 904 885
11.40 0.6 138.5 17.5 39.6 56.6

+50

7710 7612 7523 745 896 917 912 942
11.40 0.6 14.5 18 27.9 33.9 48.9 51.9

Final Cross Section
 South East Outer Connection to Federal Blvd.
 Original Sections #2110-52
 Slope Grades #2284-52

Base Line - W by F.P. →

Nov. 8-54
 H. S. Wilson
 Richard Garbar
 Chipman
 Kelly

45

1+0 6716 6722 6695 668 798 789 1286
 16.0-FC 17.2-FC 20.2-FC 24.5 36.6 56.1 81.3-FC

+20 6793 6812 6790 678 804 791 1287
 6.0 12 20-FC 21 36.5 56 80.6

+48 6842 6865 6848 684 809 796 1281
 6.0 12 20-FC 21 36.2 55.7 79.7

+50 6915 6938 6927 692 814 803 1276
 6.0 12 20-FC 21 36.1 55.6 78.8

+25 7021 7045 7040 702 822 813 1266
 6.0 12 20-FC 21.5 35.7 55.2 78.2

0+00 = Opp 91400 Station 7123 7147 7123 711 825 812 1247
 6.0-FC 12-FC 20.6 24.5 35.7 55.7 77.8

B.M.

74.22
 ASFC
 Droplink
 90 to 2

RT-E

+50

62.6	62.1	61.74	60.93	60.53	60.1	76.8	74.9	120.3
7.5	3	0.0	12	20.5-FHC	25	394	579	82.9

+25

62.10	62.8	62.66	62.02	61.63	61.1	77.3	75.6	128.8
7.5	3	0.0	12	20.4	25	401	581	87.6

+127 BC RT

62.55	62.3	62.60	62.18	61.6	77.8	75.9	132.8
10	0.0	12	20.5-FHC	24	375	575	88.8

2+0

62.95	62.50	62.05	62.64	62.5	77.9	76.0	133.1
12-FHC	0.0	12	20.5-FHC	24	394	574	87.1

+75

64.39	64.34	64.07	63.87	62.7	78.0	76.7	128.8
13-FHC	0.0	12	20.5-FHC	24	386	566	87.1

x50

65.18	65.24	65.12	64.74	64.5	78.5	77.2	122.9
11-FHC	0.0	12	20.5-FHC	24.5	371	551	80.1

1+25

66.19	66.16	65.72	65.4	78.9	77.9	122.6
0-FHC	12	20-FHC	24	365	560	81.6

+18

599	583	579	568	5647	5555	5507	549	490	666	108.6
58	35	28	8	0.0	12	204-FYRC	24	378	533	78.1

+10

607	600	590	584	571	5688	5582	5506	548	707	478	112.4
50	42	31	24	5	0.0	12	204-FYRC	235	390	570	81.3

+75

607	605	597	587	577	5758	5636	5515	553	720	699	118.3
49	38	29	18	5	0.0	12	204-FYRC	235	403	583	85.2

+50

601	605	596	585	5807	5713	5616	563	738	714	121.2
5	33	18	5	0.0	12	204-FYRC	235	412	592	86.4

77

57.62

+25

606	593	5919	5806	5747	573	747	723	116.3
22	5	0.0	12	204-FYRC	24	412	601	84.5

2+0

41	604	5999	5894	5837	579	755	734	113.8
17	5	10.0	12	204-FYRC	245	414	604	81.7

2+25

521	603	6085	5986	5938	591	760	743	118.6
15	5	0.0	12	204-FYRC	245	408	598	82.8

+75

5607 5582 5544 557 537 597 166
00 12 203-ENR
285 28 34 408

+50

5591 5552 5522 551 596 611 118 700
06 12 204-ENR
235 284 33 42 461

+85

5577 5527 5505 547 126 614 751
08 12 203-ENR
235 34 445 513

540

5567 556 5569 5526 5494 546 630 615 809
12-11C 5 00 12 20-ENR
24 34 48 573

+75

558 560 562 561 5585 5520 5484 547 650 627 890
35 19 13 5 00 12 204-ENR
21 328 498 652

750

568 566 562 562 5602 5527 5467 546 646 647 988
27 22 13 5 00 12 20-ENR
24 353 533 719

4+30.87 E.C.

591
56

578 572 567 564 5626 5548 5486 549 679 657 1043
27 22 15 5 00 12 203-ENR
24 370 550 748

Final Cross Section
South East Outer Corro. to Federal Blvd.

52

450

5660 5639 5615 567 573
0.0 12. 20.5 F.H.C. 25.4 7.0

425

5641 5623 5598 559 60.4
0.0 12 20.5 F.H.C. 23.5 26.5

400

5622 5603 5571 562 64.0
0.0 12 20.5 F.H.C. 23.3 32.3

Final Cross Section North East Lower Loop
 Nabors Blvd + Market St.

Lt.

Z

53
 Pt. Nov. 15-54
 H.S. Woz
 Garter
 Chipman
 Keller

+25

826 827 840 8205 814 803 1214
 50 25 11 00-FC 176 210 623-TopCut

+40

840 840 8330 840 811 1206
 20 11 8 187-FC 22 815

+75

847 846 8386 8279 819 1198
 20 11-FC 0 185-FC 22 596

+32.12

8570 8470 839 1188
 0 187-FC 215 582

+10

8445 8562 848 1184
 0 177-FC 205 570

0+0

8673 8594 854 1185
 0 185-FC 210 528-TopCut

BM

9062 D.H.W. Cor
 H. L. G. Market
 O. L. G. Post

Lt Lt Rt

370 894 8837 8644 858 1264
11 0.0 184 23 62.5 Topcat

+75 889 8765 8576 849 1265
11 0.0 188 23 62.5

450 878 8676 8497 840 1260
11 0.0 180 23 63.5

+25 859 869 8590 8400 831 1256
25 11 0.0 184 23 64.0

270 854 868 8497 8308 824 1248
25 11 0.0 187 23 64.0

+75 832 846 851 8407 8211 816 1236
50 25 11 0.0 185 23 63.5

1750 794 838 844 8325 8143 814 1222
50 25 11 0.0 184 21 63.0 Topcat

Lt.

Z

Rt.

55

+75

1218	888	8721	8631	8488	8553	864	1226
31	96-FH		6.0	125-54	13-cb	21	583

+50

1138	888	8834	8735	8561	8625	861	1239
35.0	16	78-FH	6.0	145-54	145-cb	21	58

+25

1222	889	8902	8816	8597	8657	867	1242
452-TopCd	12	76	8.0	18-cb	18-cb	21	59.0

+0

1234	892	8959	8872	8686	862	1248
459	12	83		178-FH	21	60.3

+75

1243	901	893	8988	8896	8700	865	1255
483-TopCd	117	12	8.5		1785	215	50.6

+50

960	902	896	8989	8900	8707	864	1260
34	20	12	8-FH		189	215	27.2

+25

929	895	8881	8688	861	1264
22	11	880	1825-FH	22	220-TopCd

Final Cross Section North East Inner Loop
Nagasaki Blvd & Market St.

58

Lt.

Z

Rt.

BX1

S. X. 1/2 lot
8427 2284-42
(8428)

+69.38 = EC

8074 8001 8065 809 1110
113-cb 23 11520

+50

8203 8108 8170 820 1147
118-cb 24 58

+25

8492 8427 8218 8263 8227 823 1187
99-cb 97-cb 118-cb 121 24 587

+10

870 8639 8591 8507 8297 8456 846 1215
15 95-cb 96-cb 117-cb 119-cb 122-cb 23 588

Final Cross Section Market St.

11+52.33 to 20+0

Nov 1854
H.S. Wood
Gardner
Chipman
Keller

Pl. 5 57

14+85

1041 739 7387 7135 7420 7562 760 724 754
863 55 635-
43-cb
745-
430-cb
755
57-
591-
D.H.C.

14+60

885 732 7291 7141 7287 7421 748 765 744
710 52 637-
43-cb
745-
431-cb
757-
745-
745-
D.H.C.

14+42

7186 7186 7335 7104 804
60-cb
37-cb
432-cb
63-
70-
D.H.C.

13+0

1616 1601 1724 877 887 1000
60-cb
373-cb
497-
72
83
960

+50

1172 6413 141 613 646 991 966
60-cb
373-cb
50-
615-
620-
795
1320

13+0

6328 6260 624 584 616 979 947
60-cb
373-cb
52-
60-
650-
795
125

11+5233 = opp 5+70645 W.L.

BM

15.83
Head Sta II
Pl 12+75

Sk Page 68

1127 6097 619 564 596 876
60-cb
415-cb
57-
61-
615-
795
745

Lt. Lt. Rt.

+50

1638 919 9150 9186 9165 923 928 927
65.9 45 30:cb 75 30:cb 30 75 100

+30

899 8952 8980 8980 903 907 908
45 30:cb 75 30:cb 150 75 100

17+0

878 8800 8853 8854 891 894 896
45 30:cb 75 30:cb 50 75 100

+50

8277 8507 8578 862 863
30:75 75 30:cb 50 75

16+0

1092 801 7998 7987 8165 8278 834
85.8 550 520 75 75 30:cb 75

+50

1001 771 7698 7680 7828 7926
762 53.5 505 75 75 75 785-cb 511

15+0

1031 745 7441 7340 7512 7645 765 780 759 768
81.5 545 517 50 100 75 75 50 75 75

Lt. North

Rt. South

Cont Page 71

BM

108.98

N 22 87
Market
109.00

20 +0

1076 10770 108.28
40 30-cb .75

+50

1046 1048 10498 10537
55 70 30-cb .75

+27

1194 1038 10362 10374 10360
581 73 30-cb .75 30-cb

19 +0

1266 1020 10176 10213 10166
655 467 30-cb .75 30-cb

+50

1260 1264 986 9833 9867 9829 984
85 87.5-Top part 40 30-cb .75 30-cb 78

18 +0

1241 1241 952 9496 9527 9489 956 957
100 89.1-Top part 40 30-cb .75 30-cb 75

Final Cross Section Nabors Blvd. Sec. B

79+0 to 89+53.32

N.W.

E

Rt. E

80
Nov. 17, 34
H.S. Man
Gerber
Chipman
Keller

7+50

8627 8561 8533 8807 8731 816 884 887
40.75 6.0 7.0 46 58 70
40.75 6.0 7.0 46 58 70
40.75 6.0 7.0 46 58 70

81+0

8568 8491 846 8726 8657 859 886 886 888
38.75 6.0 7.0 46 58 80 100
38.75 6.0 7.0 46 58 80 100

7+50

8471 8411 837 8606 8537 845 871 872 876
31.75 6.0 7.0 46 57 80 125
31.75 6.0 7.0 46 57 80 125

80+0

8327 8311 825 8466 8398 830 847 846
37.75 6.0 7.0 46 51 75
37.75 6.0 7.0 46 51 75

7+50

8245 8205 814 8315 8250 811 830 831
31.75 6.0 7.0 46 53 65
31.75 6.0 7.0 46 53 65

79+0

817 8070 797 8176 8075 797 810
35.75 6.0 7.0 46 53
35.75 6.0 7.0 46 53

BM

5' x 2' Drop
80.78 12/17
79+05

4.

2

Rt.

61

+10

over part

8999 8905 891 809 809 921
51.8 83 72 80 95
73-Gul. #12001

83705

902 903 882 8781 8706 869 8987 8887 883 870 820 928
70 57 52 50.5 62.5 6.0 88.5 53.5 75 80 85 99
W.A.R. E.A.R. W.A.R. E.A.R.

+95

1000 880 8776 8694 867 8982 8875 879 819 819 931
53 50.5 62.5 7.5 84.5 76 80 85 100
W.A.R. E.A.R. W.A.R. E.A.R.

+60-

994 874 8753 8668 867 8957 8878
57 57 53 62.5 88.5 39
W.A.R. E.A.R. W.A.R. E.A.R.

+25

865 861 8715 8643 864 8925 8862
75 65 55 63 6.0 88.5 39
W.A.R. E.A.R. W.A.R. E.A.R.

8370

8678 8630 862 8898 8838
39 63 6.0 88.5 39
W.A.R. E.A.R. W.A.R. E.A.R.

Final Cross Section Habarh Blvd.

Lt. Lt. Rt.

87+0

969 832 8390 8327 828 8558 8503
510 430 365-NYAC 6.7-FYAC 65-NYAC 38-FC.

+50

1045 840 8488 8430 841 8679 8602
563 47 365-NYAC 6.6-FYAC 68-NYAC 39-FC.

86+0

1081 850 8514 8514 850 8788 8616 862 1172
616 50 365-NYAC 6.7-FYAC 67-NYAC 54-FYAC 38 89.1

+50

1148 859 8627 8585 858 8841 8272 871 1145
686 54 33-NYAC 6.9-FYAC 6-NYAC 53 57 808

+10

1112 872 8674 8627 860 8921 8857 888 1041
682 56 33-NYAC 7-FYAC 520-FYAC 57 78

85+0

1105 876 8681 8639 863 8934 8852 896 926
680-Top cut 56 332-NYAC 7-FYAC 6-NYAC 518-NYAC 32.5

84+75

884 872 8708 8654 over Part
58 520-FYAC 335-NYAC 7-9-ft.

BM

Lt. Lt. Rt.

B.M.

7423
5200 D
Drop 10/10/47
70102
(7422)

+53.32 BC Lt.

717 742 7428 7598 750 7634 7709 777
57 57 43.5-11/17 7-E11/17 68-11/17 37-E11/17

89+0

763 7680 7782 769 7825 7914 781
50 43-11/17 7-E11/17 70-11/17 37-E11/17 55-11/17

+50

781 7890 7951 791 8060 8090 800 783
520 43-11/17 78-E11/17 68-11/17 37-E11/17 55-11/17

88+0

805 8055 8081 805 8225 8228 817 788
530 45-11/17 8-E11/17 66-11/17 37-E11/17 55-11/17

+75

809 8155 8150 811 8271 8209 8229 790
50 39-11/17 8-E11/17 67-11/17 37-E11/17 55-11/17

87+4353 = F.C.

780 829 822 8242 8235 820 8477 8385 827 838
50 51 43 37-11/17 67-E11/17 67-11/17 37-E11/17 50 75

47

2

84
RT. Dec. 7.54
H. Lissac
Garber
Chapman
Kelley

91+20

68 67.22 69.13 68.2 68.93 70.29
18.700-111 12.5-WYAC 6.8-EYAC 6.1-WYAC 33-PC

+90

68.2 68.64 70.41 69.7 70.28 71.64
47 42.5-WYAC 6.8-EYAC 6.6 33-PC

+70

69.0 69.48 71.28 70.7 71.24 72.60
47 42.5-WYAC 6.8-EYAC 6.8 33

+50

69.7 70.36 72.10 71.4 72.01 73.40
49 42.8-WYAC 6.8-EYAC 7 33

+30

70.5 71.33 73.00 72.4 72.85 74.17
51 42.5-WYAC 7.1-EYAC 7.5 33

90+0

72.6 73.30 74.24 73.3 74.12 75.40
56 42.9-WYAC 7.2-EYAC 6.6 33

89+71

72.5 73.99 75.27 74.3 75.29 76.44
57-111 43.2-WYAC 7-EYAC 6.8-WYAC 33-PC

4. 6 Pt.

B.M

53.84

N.Y. BP
Federal +
Chotto Bridge
54
(53.84)

+90

57.3 59.77 59.51 58.7 59.27 60.05 61.35 61.6
18' 43" N.Y.H.C. 7' F.H.C. 63" N.Y.H.C. 33' 40.5" F.H.C. 50

92+40

68.7 59.03 61.00 62.0 60.72 62.22 62.7 62.5
48' 43' 68' 66' 33' 40.7" F.H.C. 48'

+90

60.2 60.69 62.59 61.7 62.26 63.79 63.97
48' 43' 69' 67' 33' 41.2" F.H.C.

92+40

62.2 62.46 64.36 63.4 64.05 65.42
47' 43' 69' 66' 33'

+90

62.8 64.28 66.27 65.0 65.96 67.31
47.5 43.0 7' 66' 33'

91+40

66.0 66.37 68.31 67.8 68.03 69.48
47" TOP P.F. 42.5" N.Y.H.C. 6.9" F.H.C. 65.5" N.Y.H.C. 33" F.C.

Final Cross Section New Left Lane
Market St. West of Hobart Blvd.

Dec 3-54

L.H.N

H. Siss on
Garber
Chipman
Kelley

Rt. = 5

66

Curb Grades & Alignment 9/27/52

INDEXED
DEC 9 1954

+1973 EC

821 593 5893 5833 5747 5794 596 618
76-Tripout 51 27.9cb 27.6cb 27.6cb 27.6cb 10 20

11+0

753 573 5678 5613 5512 5558 576 603
77-Tripout 51 26.2cb 25.9cb 26.2cb 27

+50

548 5443 5379 5276 5321 546 593
53 26.1cb 25.8cb 26.1cb 27

10+0

507 5118 5186 5178 5114 5038 5081 528 577
53 36.2cb 36.1cb 35.8cb 36.1cb 27

+7195

503 1981 1918 1975 1917 1950 518 562
60 45.9cb 45.6cb 46.1cb 46.1cb 15 33

9+50

190 1882 1832 1838 1886 501 553
55 41.9cb 41.6cb 41.6cb 41.6cb 15 33

BM

SE D
17.74 Market Choker
Bridge

L. B. H.

For Check

110.3
09 CUT STUBS
18047 85+0
11025
2284.5

+41

871 874
93 15

6803 6815 6518 6503 6659 6703 6751
52 452 39.6cb 388.9cb
602 7014

+31

1085
945
93

679 6792 6526 6464 6617 6657 6717
52 448 39.6cb 387.9cb
602 7014

1370

1058
912
93

656 6552 6413 6249 6265 6511 6618
52 432 39.1 388
602 7014

+50

945
829
93

628 624 6193 6237 6277 646
51 39 38.1NAC
602 7014

1270

891
964
93

608 606 6017 5988 6038 632
52 35 37.1NAC
602 7014

Final Cross Section Market + Right Lane

Lt. 11.

B

68
 Pt 5 Dec. 6 1954
 H.S. pro -
 Garber
 Chipman
 Kelly

Cont Page 57

7

11+01.89 PRC

60.5 60.37 59.89 59.54 60.17 60.11
 3' 0.3-cb 2.57-5.4 2.6-cb 2.9

+50

58.8 58.88 58.38 57.91 58.50 58.5 57.3
 3' 0.3-cb 5.01 2.58-5.4 2.6-cb 4.2 5.0

10+0

57.1 57.13 56.69 56.17 56.80 56.0 56.9
 3' 0.3-cb 1.5-5.4 2.58-5.4 2.6-cb 5.0 1.00

+75

56.2 56.17 55.71 55.21 55.87 54.8 54.6
 4' 0.3 5.01 2.58-5.4 2.6-cb 5.0 7.5

9+41.09 BC Lt

54.9 54.91 54.45 53.91 54.60 53.1
 3' 0.3-cb 6.0-5.4 2.6-5.4 2.6-cb 5.5

B.M.

S.E. A
 4774 Market +
 Cholla Bridge

Final Cross Section South West 1/2 cr. Loop
 Wabash Blvd. + Market St.

Lt

2

69
 RT Dec. 6. 54
 H. Sisson
 Gardner
 Chipman
 Kelley

+25

607 596.5 592.2 584.7 579.8 594.7 551.5 504 789
 9.2 8.5 ft 6.0 11.8.5 ft 12.0 ft 26.5 ft 33.8 ft 33.8 ft
 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft

+0.5

597 570.4 585.1 575.8 538 584 542 572 732
 10 19.8 ft 0.0 11.5 ft 13 27 34.8 ft 39.0 ft 13.2 ft
 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft

+75

587 594 581.8 568.3 572 564 578 562 702
 24 13 8.0 ft 14 ft 15 33 39.0 ft 44.0 ft 15.2 ft
 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft

+50

570 602 585.4 568.2 572 551 515 545 670
 33 18 0.0 ft 15 ft 16 37.5 44.0 ft 48.0 ft 17.0 ft
 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft

+25

578 610 594.5 575.2 562 548 516 547 596
 28 13.5 0.0 ft 19.5 ft 35 38.5 43.0 ft 47.0 ft 13.0 ft
 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft

+0

573 622 607.5 588 567 560 554 521 552
 19 11.5 10.75 ft 23.6 ft 26 41 46.0 ft 48.0 ft 13.0 ft
 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft 20 ft

BM

SE 1/4
 Market St
 47.74
 Chula Bridge

67.

RA

70

Cont Page 57

5+50

60.49 60.22 59.93 60.38 60.5 56.0 59.1 85.9
 6-RC 60-RC 11.7-54T 12-cb 25 32-Boh 37-54 67-Topcat
 Feb 17-4

Final Cross Section Market St.

20450 to 21450

Lt. H

2

Rt. S

71

+42

11327 11323 11404 11320 11343 11320 11320
28 14 0.0 21 44-SX/HC 47.5 53-STOP

+35

11340 11368 11378 11358 11323 11320
28 14 0.0 21 44-SX 48-Bottom

21455.45

11218 11261 11268 11239 11201 11281
28 14 0.0 21 47 59-SX/HC

+80

11118 11111 11171 11132 11109 11124
28 14 0.0 21 47.5-60 47.5-60

+73

11097 11135 11142 11102 11068 11132
28 14 21 43.1 43.4-65
60

+64

11051 11088 11108 11070 11018 11082
28 14 21 42.5-60 42.5-60

20750

10987 11018 11021 11004 10956 11017
28 14 21 41.9 42.5-65
60

BM

NXSP
109.00 Market + 38%

Lt: N

Rt: S

22+0

1174 11750 11782 11798 11778 11752 1176
48-TOP FILL 459-HYFC 25 6.0 15 368-SHYFC 37-TOP FILL

+50

1166 11651 11692 11715 11680 11647 1159 1172
51 475-HYFC 25 6.0 19 378-SHYFC 39 50

+42

1169 1174 11634 11696 11702 11664 11627 1158 1173
80 51 475-HYFC 14 6.0 19 357-SHYFC 40 50

+30

1224 1156 11598 11669 11675 11640 11609 1155 1216
53-TOP 51 48-HYFC 14 6.0 19 388-SHYFC 41 438

+13

11607 11623 11632 11600 11567 1152 1224
28 14 6.0 19 383-SHYFC 42 463

22+0

11568 11584 11595 11570 11537 1149 1222
28 14 6.0 19 396-SHYFC 43 486

21 +50

11400 11423 11434 11406 11371 1133 1222
28 14 6.0-HYFC 21 439-SHYFC 47 524

1184

1184

1184

1184

1184 11837 11842 11843 11847 1179
15-TP-FH 25-TP-FH 20-TP-FH

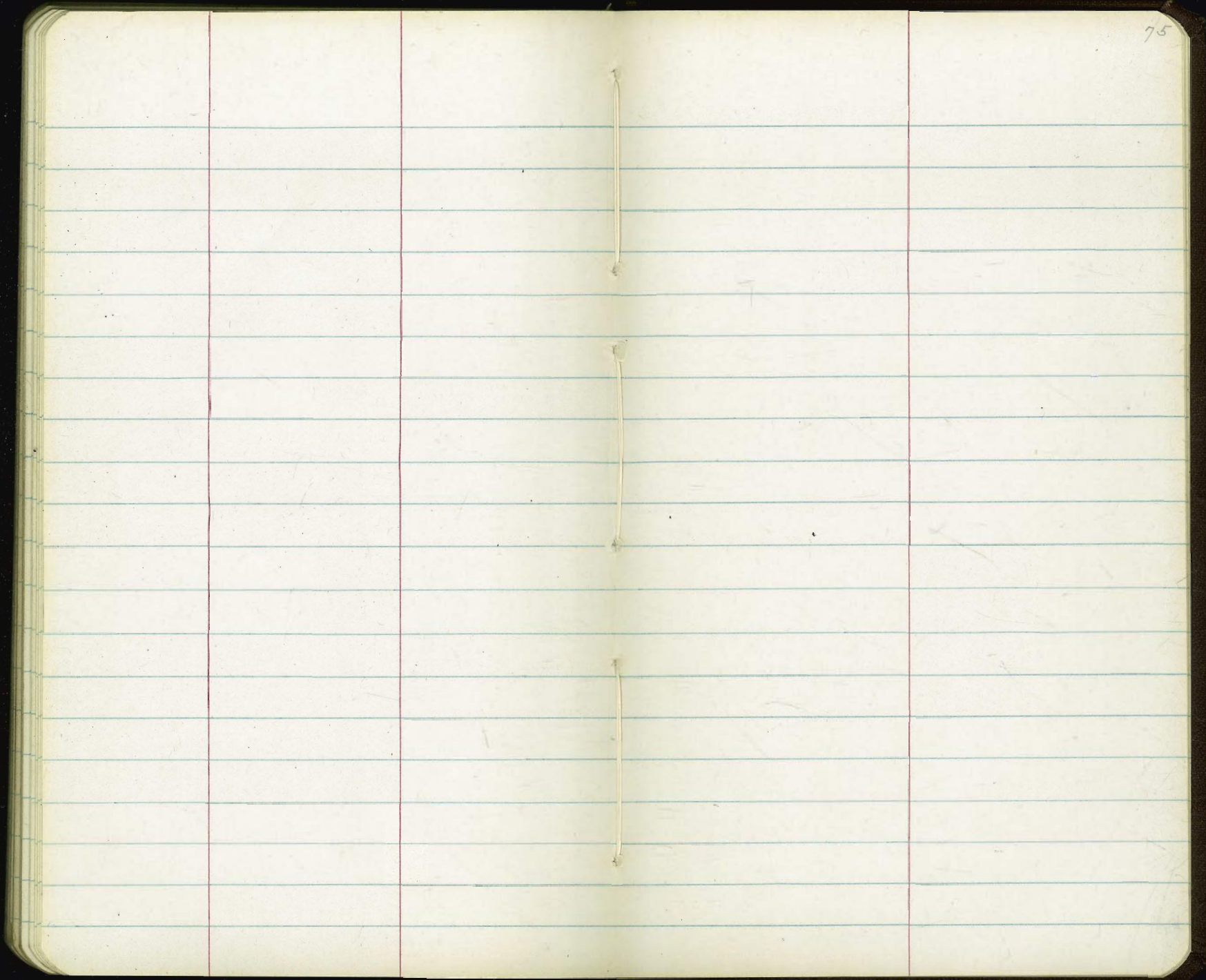
1184

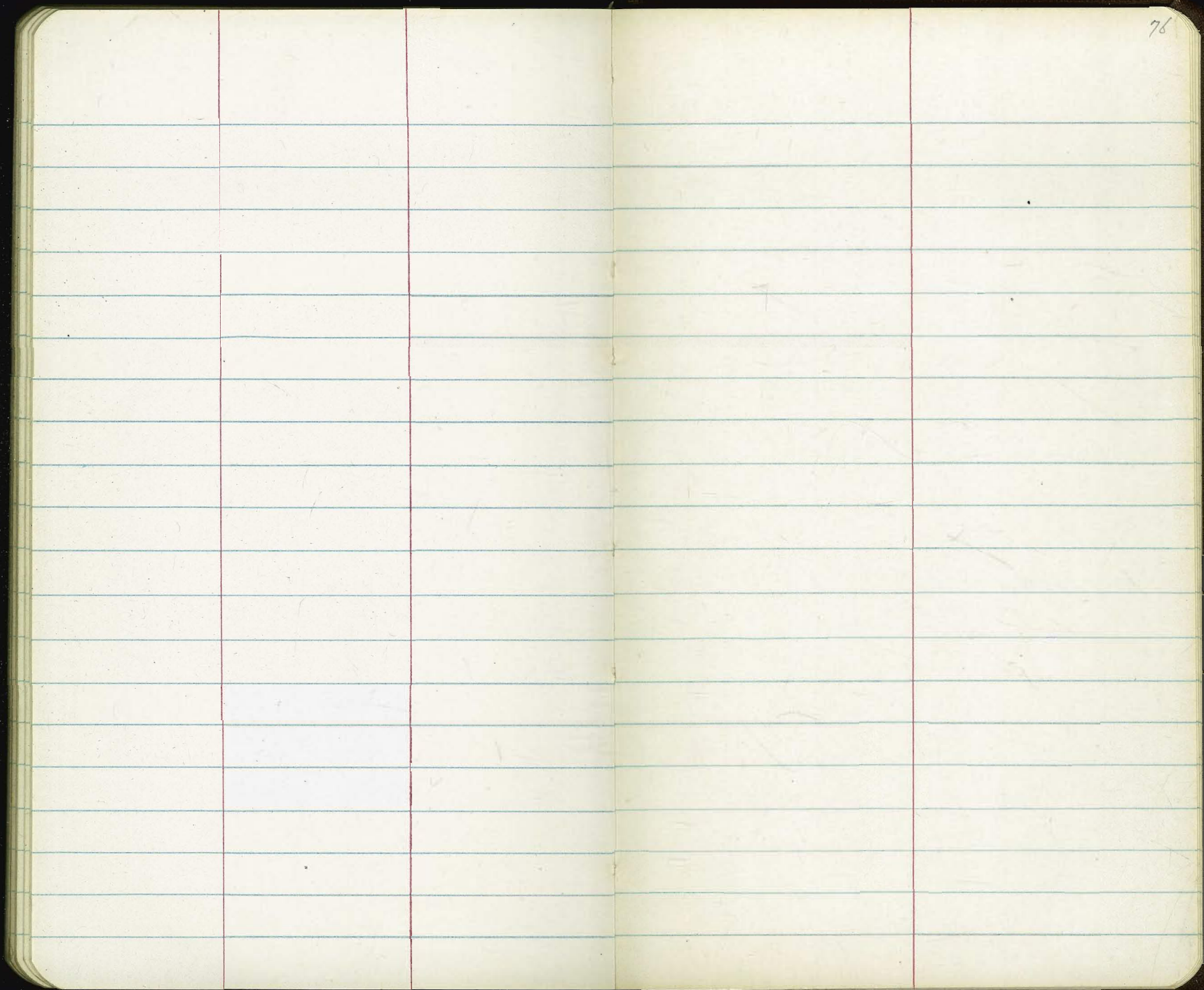
1184 11841 11845 11848 11849 11849
15-TP-FH 25-TP-FH 20-TP-FH

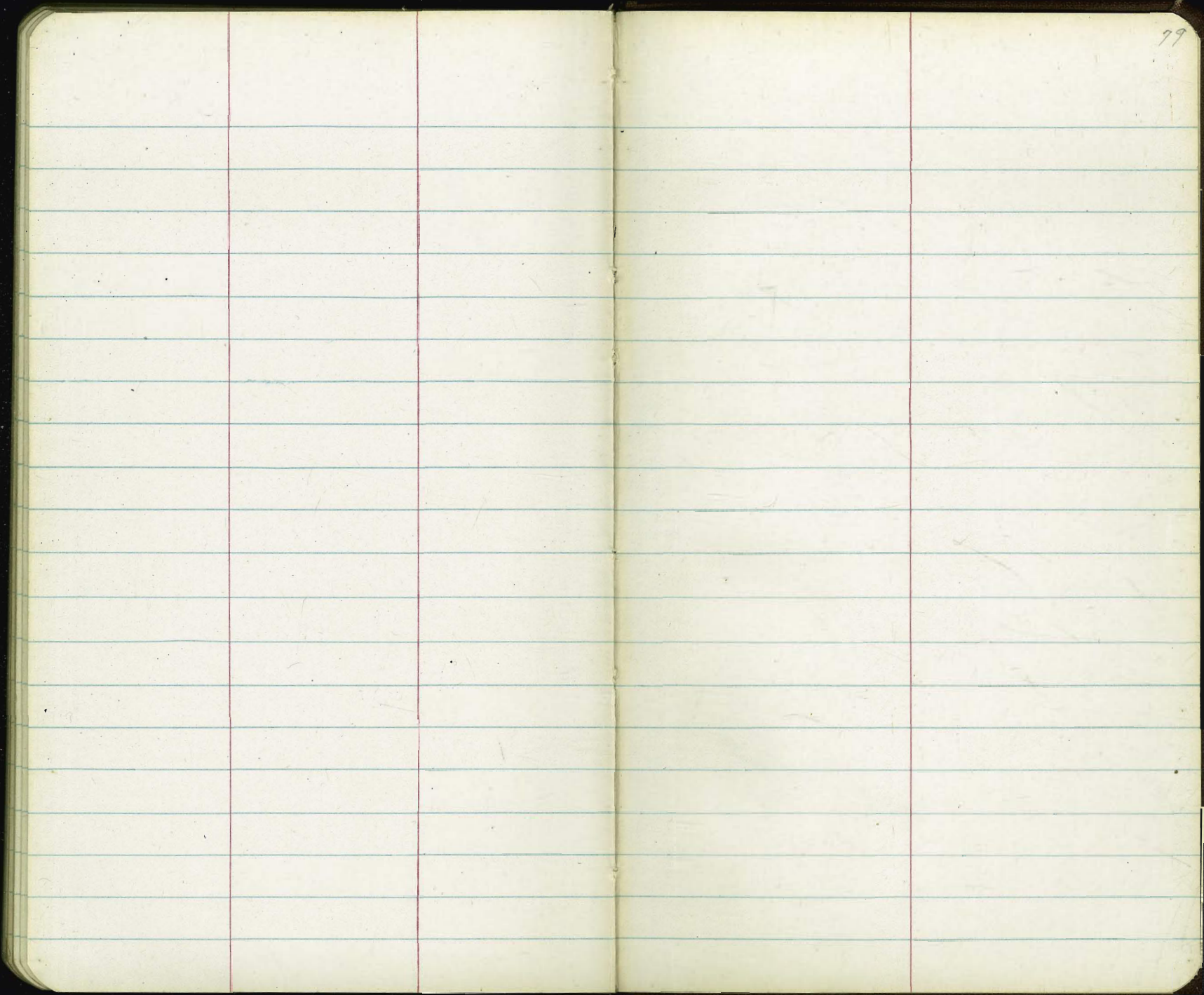
1184

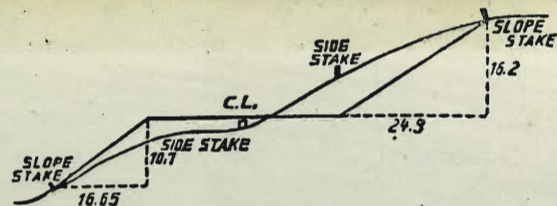
1184 11840 11843 11848 11848 1179
15-TP-FH 25-TP-FH 20-TP-FH

The image shows an open notebook with two facing pages. The pages are cream-colored and feature light blue horizontal ruling. Each page is divided into three vertical columns by two red lines. The left page has a rounded outer edge, while the right page has a straight edge. The notebook is bound in the center, and the dark cover is visible at the very edges. The pages are otherwise blank, with only the number '74' written in the top right corner of the right page.









DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1½ 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	2.70	2.85	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

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