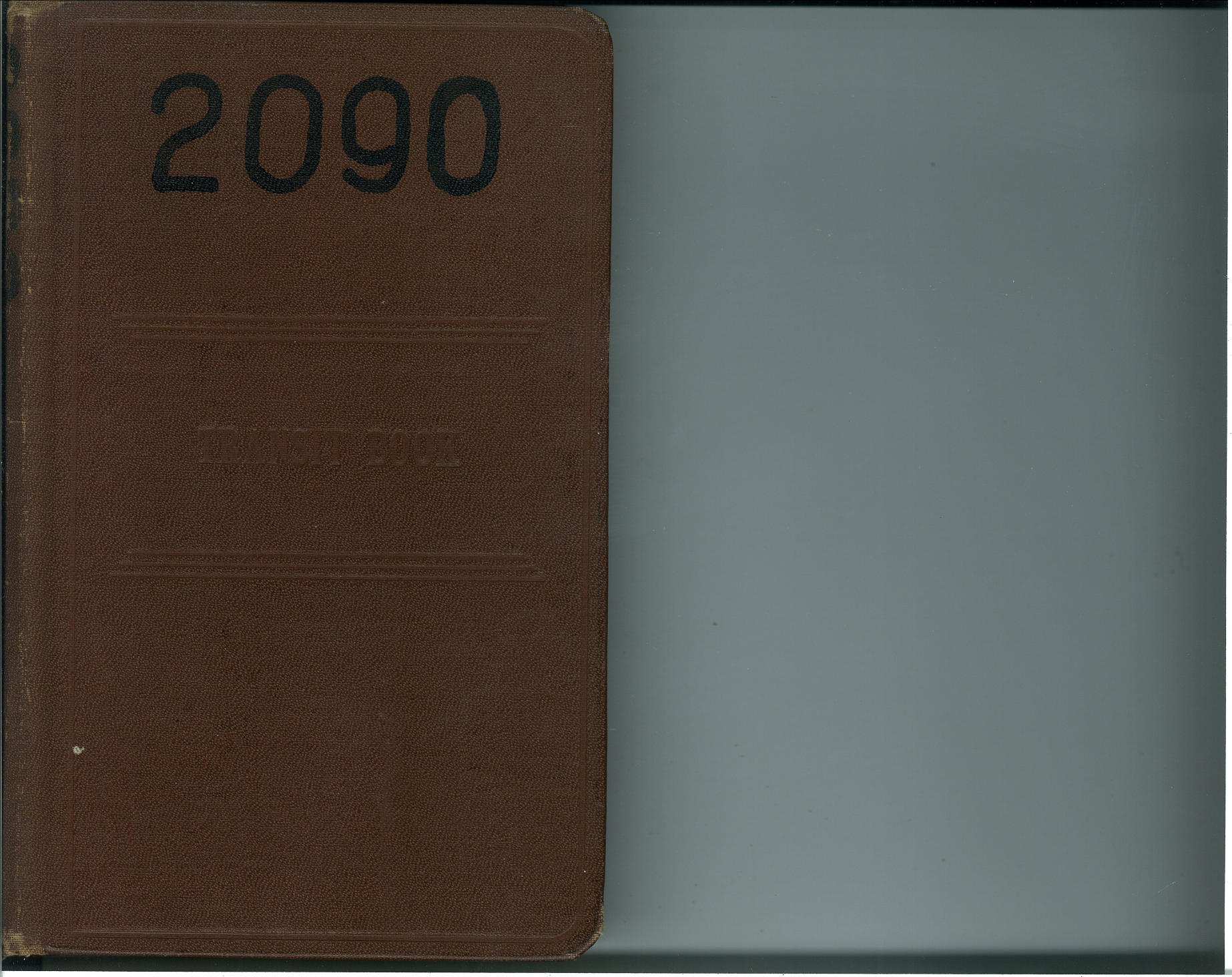
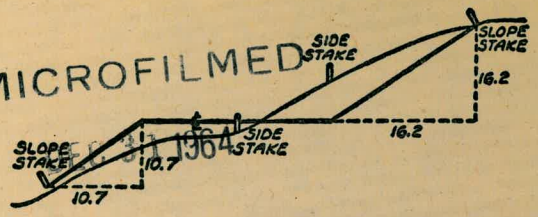

2090



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.

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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	.70	.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	2.00	2.40	2.80	3.20	3.61	4.02	4.40	4.98	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	.711	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.286	.383	.480	.578	.678	.777	.877	.977	1.07	1.18	1.29	1.39
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	.985	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

10+57 18

Cross Section Federal Blvd Sta. H Wabash Blvd 1-13

" " North West Outer Connection 14-21

" " Access Road 22-24

" " Federal Blvd. 33+0 to 41+20 25-33

" " North East Outer Connection 34-39

" " North West Inner Loop 40-44

" " South " " " 45-48

" " South East " " 50-52

Final Cross Sec. Federal Blvd. 28+0 to 31+0 53-54

" " " Wabash Blvd. 102+84 to 109+0 55-61

" " " " 174+80 to 176+75 62-65

X-Sect For Quantities

Federal Blvd.

32nd & Market to Federal

See FB 1862

Roberts
Garber
Moore
Clark
3-24-50
W.O. 22029

T.P.	4.54	80.98	4.03	76.44
12+00				
11+50				
11+25				
11+00				
10+57.18		P.R.C.		
T.P.	10.06	80.47	12.96	70.41
B.M.	1.90	83.37		81.47 SWBP

1.

Lt. ℄ Rt.

			75.2	75.4	75.8	76.1	76.4	76.5	76.3			
1:1	C 6.1		5.3	5.1	4.7	4.4	4.1	4.0	4.2	C 10.9		½:1
	44		54	47	20		20	43	53	43		
			68.1	71.2	75.1	77.0	77.4	76.7	76.4			
1:1	C 4.0		12.4	9.3	4.8	3.5	3.1	3.8	4.1	C 12.3		⅛:1
	42		52	42	22		15	47½	57½	47½		
			62.8	65.9	72.5	75.1	76.8	77.0	76.7	76.6		
×	O		17.7	14.6	8.0	5.4	3.7	3.5	3.8	3.9	C 12.8	½:1
	38		47½	37½	20	10		25	50½	60½	50½	
			56.7	56.6	56.7	62.6	73.7	76.0	77.1	77.2	77.5	
1½:1	F 8.4		23.8	23.9	23.8	17.9	9.1	4.5	3.4	3.3	3.0	C 13.9	½:1
	52½		62½	51½	43½	29		10½	31	51	61	51	
			55.6	55.5	56.5	68.7	75.1	76.4	76.6	76.7		
1½:1		F 7.6	24.9	25.0	24.0	12.0	5.7	4.1	3.9	4.3	C 14.1	½:1
		51½	51½	40	32		15	29½	44	51½	57½	

Corrected Elevation

80.47

Market & 32nd

Cont'd From page 1

Lt. ℄ Rt.

13+12.9 No: Curb Line "G" St.

					76.5	76.6	69.9	68.7	69.5	68.6	68.4	
					4.5	4.4	11.1	12.3	11.5	12.4	13.6	
					45	31	15	Gutt	cb	20	45	

13+00

			76.6	72.5	70.4	69.9	69.2	69.1	68.6	67.4	67.1		
x	0	4.4	8.5	10.6	11.1	11.8	11.9	12.4	13.6	13.9	2oth Hiking		
	40	50	40	32	20 Cb	20 Gutt		20	45	55	45		

12+85

			70.1	70.0	69.1	69.0	68.2	66.1	67.4	68.3	69.0			
4:1	F2.1		10.3	11.0	11.3	12.00	12.8	14.3	13.6	12.7	12.0	0	x	
	48.2		58.2	48.2	20		20	34 Gutt	34 Cb	40	50	40		

12+67.5 S. Curb Line "G" St.

		70.2	69.4	68.3	69.2	69.3	71.5	76.1	76.2		
		10.8	11.6	12.7	11.8	11.7	9.5	4.3	4.8		
		45	20	Gutt	cb	10	20	25	50		

12+50

69.1	69.2	70.0	70.1	77.3	77.4	76.9	76.4				
11.3	11.8	11.0	10.9	3.7	3.6	4.1	4.6				
45	35 Gutt	35 Cb	19	3		20	50				

12+40

		70.2	70.6	71.6	77.0	77.4	77.0	76.5	76.0			
x	0	10.3	10.4	9.4	4.0	3.6	4.0	4.5	5.0	C.9.6	½:1	
	34	44	34	28.5	20		20	42.3	52.3	42.3		

80.98

81

80.98

Lt Rt

15+00

		17.3	17.2	17.3	16.3	16.0	16.9	16.1	15.5	15.4	15.4			
x	0	3.7	3.8	3.7	2.7	3.0	4.1	4.9	5.5	5.6	5.6	F0.9	1½:1	
	40	50	40	33	27	15		4	20	38±	48±	39±		

14+45

			17.1	17.1	17.1	16.6	16.7	16.5	15.0	14.3	12.1	11.8		
1:1	C1.2		3.9	3.9	3.9	4.4	4.3	4.5	6.0	6.7	8.9	9.2	0	x
	39±		49±	39±	20	8		23	35	40	43	50	40	

14+00

		16.8	16.6	16.1	15.1	14.6	14.9	14.6						
1:1	C1.8	4.2	4.4	4.9	5.9	6.4	6.1	6.4	C2.4	1:1				
	39±	49±	39±	20		18	40±	50±	40±					

13+83.91 E.C.

		16.6	16.4	15.8	15.0	14.6	14.4	14.7						
1:1	C1.9	4.4	4.6	5.2	6.0	6.4	6.6	6.3	C2.5	1:1				
	39±	49±	39±	20		20	40±	50±	40±					

13+50

		16.8	16.5	15.6	15.6	16.1	14.8	10.5	68.4					
1:1	C2.6	4.2	4.5	5.4	5.4	4.9	6.2	10.5	12.6	0	x			
	40±	50±	40±	20		20	36	40	50	40				

13+30

		16.5	15.9	16.0	15.8	69.1	68.9	68.2	68.1					
		4.5	5.1	5.0	5.2	11.3	12.1	12.8	12.9					
		45	20		2	13	29 Cb	29 Gutt	45					

80.98 ↗

80.98 ↗

Cont'd From Page 3

Lt Ø Rt 4.

17.04

84.9 83.1 81.5 82.2 86.7 84.9 85.8 84.9 85.4 85.7 84.3 83.8 82.6 79.8 78.6
7.0 8.8 10.4 9.7 5.2 5.0 6.1 7.0 6.5 6.7 7.6 8.1 9.3 12.1 13.3
50 25 5 5 1 1 10 17 27 28 39 40 44 48
G.11 CO

17+00

85.0 84.3 82.6 87.1 86.9 86.8 85.9 85.2 84.0 83.8 81.6 78.8 79.5
6.9 7.6 9.3 7.8 5.0 5.1 6.0 6.9 7.9 8.1 10.3 13.1 13.4 0 x
52 40 11 6 3 4 30 31 42 42 47 52 42

16+67

86.8 86.6 86.4 87.1 85.8 84.9 85.0 84.4 80.9
1:1 C 5.0 5.1 5.3 5.5 7.8 6.1 7.0 6.9 7.5 14.0 C 3.6 1:1
43 53 43 27 20 20 41.6 49 50 41.6

16+50

84.3 84.4 85.6 86.1 86.0 85.3 85.3 84.9 84.8 82.5 82.0
1:1 C 4.9 7.6 7.5 6.3 5.8 5.9 6.6 6.6 7.0 7.1 9.4 8.9 C 3.9 1:1
42± 52± 49 48 42± 20 20 41.9 46 46 51± 41±

16+00

81.0 80.8 80.7 82.5 87.3 81.7 81.7 81.5
1:1 C 1.2 10.9 11.1 11.2 9.4 9.6 10.2 10.2 10.4 C 2± 1:1
39± 49± 39± 17 16 20 40± 50± 40±

T.P. 11.19 91.93 0.24 80.74

91.93

15+50

78.2 78.8 78.8 78.1 77.7 78.1 79.1 77.8 77.1 76.8
1:1 C 0.4 2.8 2.2 2.2 2.9 3.3 2.9 1.9 3.2 3.9 4.2 F 0.8 4:1
38± 48± 38± 20 9 15 16 27 43± 53± 43±

80.98

80.98

T.P.	9.30	98.51	2.52	89.21
T.P.	5.66	91.73		86.07
Check			5.66	86.27 = 86.29 = 86.07

Eq.

N.W. Chisel □ "F" ≠ 33d

18+08.02

1:1 C 5.0 — 43

90.7 (1.2, 5-3) — 90.5 (1.4, 43) — 89.8 (2.1, 20) — 89.1 (2.8) — 89.1 (2.8, 20) — 87.9 (4.0, 30) — 85.3 (6.6, 37) — 82.0 (9.9, 47, 0, 37)

17+49

90.2 — 1.7 — 543

1:1 C 6.3 — 1.9 — 43½

90.0 — 89.6 (2.3, 36) — 83.0 (8.7, 28½, cb) — 82.2 (8.7, Gutt) — 81.9 (10.0, 20) — 81.0 (10.9) — 79.8 (12.1, 20) — 77.1 (14.2, 50)

17+67.3 No. Curb Line "F" St.

80.6 — 89.3 (2.4, 50) — 87.1 (2.6, 25) — 80.0 (4.2, 5) — 80.7 (11.9, Gutt) — 79.3 (11.2, cb) — 77.6 (12.6, 20) — (14.3, 50)

17+37.8 Approx. ℄ "F" St.

89.9 (2.0, 52) — 84.2 (7.7, 46, cb) — 83.5 (8.4, 46, Gutt) — 82.9 (9.0, 30) — 81.3 (10.6) — 79.8 (12.1, 20) — 77.9 (14.0, 46, Gutt) — 78.6 (13.3, 46, cb)

17+08.2 So. Curb Line "F" St.

84.9 (7.0, 50) — 84.0 (7.9, 35) — 84.1 (10.8, Gutt) — 81.8 (10.1, cb) — 84.2 (7.7, 4) — 85.6 (6.3, 23) — 84.6 (7.3, 24) — 83.9 (8.0, 36) — 82.9 (9.0, 37) — 79.4 (12.5, 44) — 78.5 (13.4, 50)

91.93

91.93

Cont'd From Page 5

Lt ℄ Rt 6.

20+24

95.3 95.9 87.4 86.2 85.2 85.3
3.2 2.6 11.1 12.3 13.3 13.2
50 32 20 40 50

20+10

93.7 93.4 89.6 88.2 87.1 87.5 87.0 86.9
1:1 C2.2 4.8 5.1 8.9 10.3 11.4 11.0 11.5 11.6 0 x
41½ 51½ 41½ 25 14 21 38 48 38

19+98.94 BC. Rt

91.5 90.8 89.9 88.8 87.8 88.9 88.0
1:1 C0.9 7.0 7.7 8.6 9.7 10.7 9.6 10.5 C1.9 1:1
38½ 48½ 38½ 20 20 39½ 49½ 39½

19+50

92.3 93.6 93.4 93.2 91.9 91.1 90.5 89.7 89.3
1:1 C1.7 6.2 4.9 5.1 5.3 6.6 7.4 8.0 8.8 9.2 C2.8 1:1
42½ 52½ 42½ 20 8 5 20 40½ 50½ 40½

19+00

92.7 92.5 92.0 90.7 90.1 88.8 88.3
1:1 C1.7 5.4 6.0 6.5 7.8 8.4 9.7 10.2 C2.4 1:1
42½ 52½ 42½ 20 20 40½ 50½ 40½

18+50

93.0 91.3 90.1 90.3 89.0 87.8 87.7
1:1 C1.8 6.5 7.2 7.8 8.2 9.5 10.7 10.8 C2.0 1:1
42½ 52½ 42½ 20 20 40 50 40

98.51 98.51

Contd From Page 6

		Lt			℄					Rt	
22+50			96.0	95.7	93.7	88.9	85.0	83.8	78.8	77.5	
	1:1 C4.1		5.8	6.1	8.1	12.9	16.8	18.0	23.0	24.3	F 7.3 H 1:1
	42		52	42	20		13	23	48	58	48
22+00		91.8	97.2	95.9	95.0	93.6	92.4	89.1	86.1	86.1	84.5 84.4
	1:1 C5.4	4.0	4.6	5.9	6.8	8.2	9.4	12.7	15.1	16.1 17.3	13.4 O X
	43.4	53±	43.4	23	20		8	18	37	43 44	47 37
21+50			96.6	95.1	94.1	92.8	90.0	87.8	86.8		
			5.2	6.1	7.1	9.0	11.8	14.0	15.0		
			50	35		25	45	45	50		
21+00		97.1	95.9	95.5	94.4	93.5	93.0	91.5	90.9	83.1	
		4.7	5.9	6.3	7.4	8.3	8.8	10.3	11.1	18.1	
		50	25	16		25	44	45	50	67	
20+75		96.8	96.4	95.4	94.5	94.2	93.2	91.9	90.2	82.2	
		5.0	5.4	6.4	7.3	7.6	8.6	9.9	13.6	19.6	
		50	40	25		25	40	50	65	70	
T.P.	5.36	101.83	2.04	96.47							
					Slope Stub on ℄ 20+50						
						101.23					
20+50			97.1	96.5	96.1	95.4	94.9	86.9	84.3		
	1:1 C5.6		1.8	2.0	2.4	3.1	3.6	11.6	14.2		O X
	43.6		53±	43±	20		3	37	47		37
		98.51									
						98.51					

Contd From Page 7

Lt ℄ Rt

24+25

92.5 91.1 90.6 90.5 89.2 84.3 81.8 80.2 80.2
5.6 7.0 7.5 7.6 8.9 13.8 16.3 17.9 17.9
57 47 23 5 22 44 48 60

24+00

93.0 91.8 90.2 88.8 88.9 87.5 83.9 82.3 80.3 80.2
1:1 C0.7 5.1 6.3 7.9 8.3 9.2 10.6 14.2 15.8 17.3 17.9 F4.0 4:1
50 60 50 33 18 10 19 23 53 63 53

23+75

92.1 88.1 84.1 83.9 82.8 82.0 79.9
5.4 10.0 13.4 14.2 15.3 16.1 18.2
50 25 5 22 41 50

23+50

94.1 93.6 89.2 87.3 85.4 84.8 82.2 78.8 77.5
1:1 C2.2 3.4 4.5 8.9 10.4 12.7 13.3 15.9 17.3 19.6 F6.5 1½:1
46½ 36½ 46½ 2.5 23 10 21 46½ 56½ 46½

23+25

93.3 92.1 89.9 88.1 85.3 83.6 81.9 79.0
4.8 6.0 8.2 10.0 12.8 14.5 16.7 19.1
50 40 23 8 6 23 50

T.P. 6.16 98.13 9.96 96.97

98.13

23+00

94.0 93.3 91.2 85.1 82.4 79.0 78.5
1:1 C2.0 7.8 8.5 10.6 16.7 19.4 22.8 23.3 F6.8 1½:1
40½ 50½ 40½ 23 13 47½ 57½ 47½

101.83

101.83

Cont'd From Page 8.

26+00					91.1	90.4	88.8	87.X	85.9	84.2	83.1	82.1		
					7.0	7.7	9.3	10.7	12.2	13.9	15.0	16.0	C2.2	1:1
					60	48	23		19	26	40±	50±	40±	
25+72				92.1	91.6	90.3	89.2	88.2	86.8	85.7	83.0	82.9		
	1:1	C4.0	5.4	6.5	7.8	8.9	9.9	11.3	12.4	15.1	15.9	C1.6	1:1	
		54	64	54	44	27	22		15	39±	49±	39±		
25+50				92.1	92.2	91.6	89.9	87.1	85.7	84.9	83.1	82.9		
	1:1	C3.9	5.4	5.9	6.5	8.2	11.0	12.4	13.2	14.4	15.2	?	?	
		53±	63±	53±	43	24		10	23	39±	49±	39±		
25+00				94.4	94.1	93.0	92.2	89.3	88.0	86.5	84.6	83.4		
	1:1	C4.8	3.7	4.0	5.1	5.9	8.8	10.1	11.6	13.5	14.7	C1.3	1:1	
		54±	64±	54±	36	24		10	22	39±	49±	39±		
24+70				93.9	93.5	92.6	91.6	90.4	87.5	83.5	82.6			
	1:1	C3.6	4.2	4.6	5.5	6.5	7.7	10.6	14.6	15.5	0	X		
		53±	63±	53±	28	7		13	38	48	38			
24+50				92.3	92.0	92.5	91.4	90.0	84.0	82.4	81.9	81.0		
	1:1	C1.8	5.8	6.1	5.6	6.7	8.1	14.1	15.7	16.2	17.1	FZ.3	4:1	
		51±	61±	51±	29	7		30	40	46±	56±	46±		

Contd From Page 9

Lt. | ℄ | Rt.

T.P.	3.87	87.96	13.03	84.09									
		↑ 1											
2													
28+50						89.1	88.2	86.8	85.2	85.0	84.2	82.9	82.6	81.7	81.4	81.0
					?	7.8	8.0	8.9	10.3	11.9	12.1	12.9	14.2	14.5	15.4	15.7	16.1	C6.3 1:1
						37	47	37	18	13		12	30	40	41	44E	54	44E
2																		
28+00						90.4	89.5	88.0	88.0	86.6	85.7	84.4		81.2		80.9		
						6.7	7.6	9.1	9.1	10.5	11.4	12.7		15.9		16.2		C55 1:1
						56	46	38	27	8		21		43E		53E		43E
2																		
27+50						91.4	90.3	88.4	86.1	84.5	82.7	81.3						
						5.9	6.4	8.7	11.0	12.6	14.4	15.8				C 5K	1:1	
						56	45	25		10	43E	53E				43E		
2																		
27+00						91.0	89.2	87.7	86.4	85.4	84.3	82.4	81.5					
						6.1	7.9	9.9	10.7	11.7	12.8	14.7	15.6			C45	1:1	
						50	35	16		10	22	43E	53E			43E		
2 T.P.	5.48	97.12	6.49	91.64						97.12								
		↑																
2 26+50						91.4	90.1	88.8	87.9	86.5	84.5	82.5	81.8					
						6.7	8.0	9.3	10.2	11.6	13.6	15.6	16.3			C3.1	1:1	
						60	46	24	6		22	41E	51E			41E		
		98.13								98.13								
		↑								↑								

Contd From Page 10

4.

Re 11.

30+55

		87.	84.0	83.8	82.6	81.9	78.5	75.1	72.0	72.4		
O2	C4.9	1.0	3.0	4.2	5.4	6.1	9.5	12.9	15.0	15.6		
slope	37	112	90	64	37	17		20	38	48	38	x

30+48

		83.4	83.0	82.3	81.3	80.4	77.9	76.1	74.9	69.9		
		4.6	5.0	5.7	6.9	7.6	10.3	11.9	13.1	15.1		
		50	40	25		10	24	38	48	53		

30+35

		87.1	85.6	84.4	83.2	82.4	81.4	80.6	79.4	78.4	77.4	72.3
O2	C5.0	0.9	2.4	3.6	4.8	5.6	6.6	7.4	8.6	9.6	10.6	15.7
slope	37	102	90	68	37	19		17	26	43	50	53

C5.2 1:1 43

30+00

		86.4	85.1	84.1	83.2	82.5	80.6	80.1	76.6	76.1	
O2	C5.4	1.6	2.9	3.9	4.8	5.5	7.4	7.9	11.4	11.9	
slope	37	89	65	37	18		20	35	46	60	

29+50

		87.5	87.0	85.5	84.3	83.1	82.1	81.6	80.4	79.6		
O2	C6.5	0.5	1.0	2.5	3.7	4.9	5.3	6.4	7.6	8.4		
slope	37	77	55	37	15	11		25	47	54		

C6.7 1:1 44

29+00

		89.1	87.9	86.8	85.7	84.9	84.3	83.0	82.1	81.4	80.4	79.6
O2	C7.2	+1.1	0.1	1.2	2.3	3.1	3.7	5.0	4.9	6.6	7.6	8.4
slope	37	90	47	37	20	9		5	16	30	44	54

C6.2 1:1 44

87.96

87.96

Cont'd From Page 11

32+50

32+00

House Still in Row
E. Cor. Bottom Step
SET T.B.M. 3.01 61.49 6.61 58.48

31+45.83 E.C.

T.P. 1.18 65.09 12.46 63.91

31+00

T.P. 0.61 76.37 12.20 75.76

30+73

87.96

Lt ℄ Rt. : 12.

58.3 58.0 57.5 56.9 56.5 56.4 56.4
1½:1 F18.0 3.2 3.5 4.0 4.6 5.0 5.1 5.1
64± 74± 64± 27 25 50 60

58.9 58.7 58.5 58.6 58.7 57.5 57.1 56.8 56.5
1½:1 F18.2 2.6 2.8 3.0 2.9 3.3 4.0 4.4 4.7 4.9 F16.8 1½:1
63± 73± 63± 50 28 30 50 62± 72± 62±

61.49

60.6 60.2 59.6 59.9 58.1 58.4 58.0 57.8 57.9
1½:1 F16.7 4.5 4.9 5.5 6.2 7.0 6.7 7.1 7.3 7.2 F15.5 1½:1
62± 72± 62± 30 21 21 46 60± 70± 60±

65.09

69.1 67.7 64.2 62.5 60.4 60.7 60.0
1½:1 F9.9 7.3 8.7 12.2 13.9 15.9 15.7 16.4 F12.8 1½:1
51± 61± 51± 28 5 27 56± 56±

76.37

87.5 87.3 83.3 83.0 81.2 77.7 75.2 72.5 71.6 69.7 69.2 69.6
0 0.5 2.7 4.7 5.0 6.8 10.3 12.8 15.5 16.4 18.3 18.8 18.4
37 130 130 104 90 62 37 17 13 20 41 50

87.96

Cont'd From Page 12

Lt

Rt

check			5.78	51.75	= 51.87
T.P.	3.70	57.53	7.66	53.83	
32+80					

61.49

NWBP Federal #35 41 St

		57.8	57.7	57.4	57.3	57.8	57.4	56.9	56.6	
1½:1 F183	2.7	3.8	4.1	4.2	3.7	4.1		4.6	4.9	
	65	75	65	50	30	9		30	60	

61.49

Roberts
Garber
Clark
3-28-50
W.O. 22029

X-Sect NWOC
for Quantities

See FB 1863 pg 67

Lt ℄ Rt 14.

2+50

92.2 91.2 89 88.5 87.1
7.8 8.8 11.0 11.5 12.3
28 16 14 24

C72 .02 slope
14

2+00

92.5 91.4 90.0 89.9 88.5 87.6
7.5 8.6 10.0 10.1 11.5 12.4
30 13 7 20 30

1+50

93.5 93.1 92.6 91.5 90.0 89.3 87.7
1:1 C92 6.5 6.9 7.4 8.5 10.0 10.7 12.8
27± 37± 27± 24 10 5 30

1+00

93.0 91.8 90.3 89.3 87.7 86.7
1:1 C66 7.0 8.2 9.7 10.7 12.3 13.3
24± 34± 24± 12 15 30

0+50

92.3 91.4 91.1 90.0 89.2 86.8
1:1 C48 7.7 8.6 8.9 10.0 11.8 13.2
22± 32± 22± 15 22 35

0+00

93.9 92.4 90.5 89.8 89 88.3 87.0
6.1 7.6 9.5 10.2 11.0 11.7 13.0
45 26 12 9 12 30

BM 0.78 99.97
99.19 NE. Mon. Broadway ℄ 34±4 St.

99.97

Contid From Page 14

Lt

Rt

5+50				91.0	90.6	89.4	88.4	87.4	86.5	
	½:1	C17.9		4.4	4.8	6.0	7.0	8.0	8.9	C11.4 .02
		49±		59±	49±	31	10		11	11 Slope
5+00				90.8	90.7	89.8	87.9		86.9	
	?	C16.9		4.6	4.7	5.6	7.5		8.5	C10.7 .02
		49		59	49	26			11	11 Slope
4+50				93.3	92.4	89.6	87.6		87.0	
	½:1	C17.4		2.1	3.0	5.8	7.8		8.4	C9.7 .02
		49±		59±	49±	26			11	11 Slope
3+95 51	BC			94.1	92.7	90.4	88.7		87.8	
	½:1	C16.5		1.3	2.7	5.0	6.7		7.6	C9.4 .02
		48±		58±	48±	21			11	11 Slope
3+50				94.8	94.1	92.1	90.2		89.1	
	½:1	C16.6		0.6	1.3	3.3	5.2		6.3	C9.9 .02
		48±		58±	48±	24			11	11 Slope
T.P.	6.31	95.40	10.88	89.09					95.40	
3+05 96	Include Access Road from Here.			94.5	94.2	92.4	91.3	90.2	89.1	
	½:1	C15.7		5.5	5.8	7.6	8.7	9.8	10.9	C9.3 .02
		21±		58±	48±	27	14		11	11 Slope
		99.97							99.97	

Contd From Page 15

6+50				
T.P.	3.88	66.93	11.82	63.05
6+22				
6+00				
T.P.	0.25	74.87	12.21	74.62
T.P.	1.10	86.83	9.67	85.73
5+75				
5+59				

95.40

Lt ℄ Rt

6+50

		61.4	66.6	64.6	62.3	61.0	60.4	60.2		
1½:1	F3.9	+0.5	0.3	2.3	4.6	5.9	6.5	6.7	F12.5	1½:1
	45℄	55℄	45℄	39	15		29℄	39℄	29℄	

66.93

6+22

			71.1	71.3	66.5	63.9	60.9	60.0		
x	0	0	3.8	3.6	8.4	11.0	14.0	14.9	F12.6	1½:1
	40	50	40	33	21		29℄	39℄	29℄	

6+00

		90.9	86.4	74.6	73.4	69.2	68.0	63.2	62.1	
1½:1	C14.7	+1.60	+11.5	0.3	1.5	5.7	6.9	11.7	12.8	F12.7	1½:1
	47℄	57℄	47℄	25	18	8		27	37	27	

74.87

5+75

		91.9	90.5	87.8	79.7	79.3	78.9	74.5	73.4		
½:1	C13.2	8.5	4.9	7.6	15.7	16.1	16.5	20.9	22	0	x
	49℄	59℄	49℄	20	5		5	11	21	11	

5+59

	90.0	88.5	88.3	81.3	84.2	
	5.4	6.9	7.1	8.1	11.2	
	50	29	8		11	

95.40

Cont'd From Page 15

	Lt	℄	Rt
9+50	60.0 59.6 58.5 58.3 57.5 1½:1 F7.4 6.9 7.3 8.4 8.6 9.4 28± 16 20 35		
8+83	59.7 59.5 59.5 58.8 58.4 7.2 7.4 7.4 8.1 8.5 40 20 20 35		
8+59	62.0 61.8 61.6 59.6 58.5 4.9 5.1 5.3 7.3 8.4 45 20 22 40		
8+00	Access not included from here on.	62.1 62.0 61.4 61.3 60.4 60.4 1½:1 F6.0 4.8 4.9 5.5 5.6 6.5 6.5 49± 59± 49± 22 21 40	
7+50	62.9 62.4 61.3 60.7 60.1 59.9 1½:1 F6.5 4.0 4.5 5.6 6.2 6.8 7.0 F11.2 1½:1 49± 59± 49± 27 27± 37± 27±		
7+00	64.7 64.0 62.8 61.6 61.1 60.5 60.3 1½:1 F5.8 2.2 2.9 4.1 5.3 5.8 6.4 6.6 F11.6 1½:1 49± 58± 48± 45 23 28± 38± 28±		

66.93

66.93

Contd From Page 17

T.P.	10.64	74.15	3.46	63.47
11+50				
11+34				
11+00				
10+50				
10+00				

66.93

		61.5	62.5	61.5	60.8	61.1	61.2		
1½:1	F6.4	5.4	4.4	5.4	6.1	5.8	5.7	F9.6	1½:1
	26℄	36℄	26℄	10		25℄	35℄	25℄	
		61.4	60.3	60.5	61.1	61.5			
		5.5	6.6	6.4	5.8	5.4			
		30	11		16	32			
		60.1	60.4	62.1	62.4	63.0	63.3		
		6.8	6.5	3.8	4.5	3.9	3.6	F7.8	1½:1
		30	17		12	27℄	32℄	22℄	
		59.8	60.1	59.7	59.6	61.9	62.2	62.5	
1½:1	F7.9	7.1	6.8	7.2	7.3	5.0	4.7	4.4	F7.8 1½:1
	28℄	38℄	28℄	16		12	22℄	32℄	22℄
		59.9	59.7	59.2	59.4	59.0	61.2	61.1	
1½:1	F8.0	7.8	7.2	7.7	7.5	7.9	5.7	5.2	F8.9 1½:1
	29	39	29	14		12	24℄	34℄	24℄

66.93

Contd From Page 18

Check	4.09	70.06 = 69.96	+ MH 14+44 See pg 78 FB 1863	
14+50	Sections on Lt only			
			1½:1 F6.1 26±	69.0 5.2 36± / 68.5 5.7 26± / 67.0 7.2
14+00			1½:1 F5.7 25L	67.1 6.5 35± / 67.7 6.5 25± / 66.0 8.2 / 65.5 8.7 6 / 66.9 7.3 30
13+50			1½:1 F4.3 23±	67.5 6.7 33± / 67.5 6.7 23± / 66.6 7.6 12 / 66.1 7.5 / 65.1 8.5 23± / 65.7 8.5 32± / F8.4 23± 1½:1
13+00			1½:1 F5.2 24±	66.2 8.0 34± / 65.4 8.8 24± / 65.3 8.9 / 65.6 8.6 22± / 65.7 8.5 32± / F7.4 22± 1½:1
12+50			1½:1 F4.5 23±	66.2 8.0 33± / 65.3 8.9 23± / 64.6 9.6 / 64.6 9.6 22± / 64.8 9.4 32± / F7.4 22± 1½:1
12+00			1½:1 F5.6 25±	63.2 11± 35± / 63.5 10.7 25± / 63.7 10.5 1 / 63.6 11.6 5 / 63.6 11.6 / 63.2 11.0 23± / 63.5 10.7 33± / F8.1 23± 1½:1
	74.15			74.15

C			Lt	℄	Rt
1	17+00		10.0	10.2 10.0	10.9
		1½:1 E12.2	4.2	4.0 4.2	3.3
		36±	46±	36± 18	
14	16+50		69.2	69.1 69.7	69.9
		1½:1 F11.4	5.0	5.1 4.5	4.3
		33±	43±	33± 16	
13	16+00		69.6	69.3 69.0	68.9
		1½:1 F9.8	4.7	4.9 5.2	5.3
		31±	41±	31± 16	
13	15+50		69.2	68.9 69.0	68.1
		1½:1 F8.9	5.0	5.3 5.2	6.1
		30±	40±	30± 12	
12	15+00		69.2	68.9	67.7
		1½:1 F7.3	5.0	5.3	6.5
		28	38	28	
1	14+61 ±1	Ec	69.0	68.7	67.2
		1½:1 F6.2	5.2	5.5	7.0
		26±	36±	26±	

74.15

74.15

Contd From Page 20

		Lt	℄	Rt
18+91.27	End of NWOC			
		13.7	13.5	14.0 13.7
	1½:1 F11.0	0.5	0.7	0.2 0.5
	33±	43±	33±	20
18+50		11.6	12.6	12.9 13.3
	1½:1 F11.2	2.6	1.6	1.3 0.9
	34±	44±	34±	20
18+00		10.6	11.1	12.3 12.0
	1½:1 F12.2	3.6	3.1	1.9 2.2
	55±	45±	35±	21
17+50		10.7	69.8	11.2 12.0 12.0
	?	3.5	4.4	3.0 2.2 2.2
		50±	40±	22 18

74.15

74.15

Roberts
Garber
Clark
3-28-50
WO 22229

X-Sect Access Road

For Quantities

See Pg 67 FB 1863

2+00

1+50

1+30

1+00

0+50

0+00

BM 2.38 101.59

99.19 NE Mon. Broadway ℄ 34±1 St

101.57

			96.6	95.5	93.7	93.1		91.5	90.6	
1/2:1	C11.2		5.0	6.1	7.9	8.5		10.1	11.0	C6.1 1:1
	19±		29±	19±	11			20±	30±	20±
		97.3	96.1	95.5	95.2	92.4	91.6			
1/2:1	C7.5	4.3	4.9	6.1	6.4	9.2	10.0			
	17±	27±	17±	4		15	34			
		98.4	97.7	96.1	95.7	92.9				
		3.2	4.5	5.5	6.4	8.7				
		28	12		8	30				
		98.5	97.3	97.1	96.0	95.2	93.8			
1/2:1	C0.6	3.1	4.2	4.5	5.6	6.4	7.8		C3.8 1:1	
	15±	25±	15±	4		17±	27±		17±	
		98.4	98.0	97.1	96.0	95.2				
		3.2	3.6	4.5	5.6	6.4			FO.8 1½:1	
		24	14		15±	25±			15±	
		99.1	98.4	97.8	97.5	96.7				
×	0	2.5	3.2	3.8	4.1	4.9			FO.30 ½:1	
	19	29	19		14±	24±			14±	

Contd From Page 22

		Lt	℄	Rt	
9+50		60.1 / 60.0	58.9	59.7 / 59.8	
	1½:1	F5.4 21←	6.7 31← / 6.8 21←	7.9	7.1 20→ / 7.0 30→	F6.8 20→ 1½:1
9+00		60.4 / 60.1	59.3	58.6	
	1½:1	F5.5 21→	6.4 31→ / 6.7 21→	7.5	8.2 20
8+50		62.1 / 61.9	61.2	60.3	
	1½:1	F4.5 19←	4.1 29← / 4.9 19←	5.6	6.5 20
T.P.	7.68	66.82	2.96	59.14	66.82 ↑
TBM	3.62	62.10	5.848 TBM See pg 12		
8+00	See pg. 17				
2+95 93 BC	See pg 15	= 305 96			
2+50.		94.8 / 93.6	92.0	91.0	
	½:1	C13.2 20←	6.4 30← / 8.0 20←	9.6	10.6 24
		101.57 ↑			101.57 ↑

Cont'd From Page 23

check			331	58.48 = 58.48
T.P.	2.99	61.79	8.00	58.82

11+07 End of Access

10+91

10+90

10+50

10+00

66.82

2+ 1+ R+

see pg 12

			66.2	66.0	65.8	65.4	65.2	
1:1	CO.9 13±		0.6 23±	0.9 13±	1.0	1.2 13±	1.6 23±	CO.4 13± 1:1
			65.7	65.6	65.8		65.2 61.9	
?			1.1 23	1.2 13	1.0		1.6 4.9 0 13 23 13	X
			65.0	64.9	65.4	61.6	61.7	
X	0 13		1.8 23	1.9 13	1.4	5.2 15±	5.1 25±	F3.4 ? 15±
			64.4	64.4	62.6	61.6	59.8	60.2 60.3 60.8
1½:1	F2.4 16±	2.4 26±	2.4 21	4.3 16±	5.3 11	7.0 7	6.6	6.5 16± 6.0 26± F4.6 1½:1 16±
			59.4		59.6	60.9	62.1	61.5
1½:1	F5.5 21±		7.4 31±		7.2 21±	5.9	4.7 17±	5.3 27± F4.7 1½:1 17±

66.82

X-Sect. Federal for Quantities Lt. ℄ Rt 25.

Roberts
Garber
Moore
Clark
4-3-50
W.O. 22029

Cont'd From Page 13

See F.B. 1863 pg 26 to 35

T.P.	11.62	73.26	0.21	61.64	
34+53					52.6 53.2 53.6 52.5 51.4 9.3 8.7 8.4 9.4 10.5 60 30 30 60
34+40					52.1 51.9 50.8 50.8 49.8 9.2 10.0 11.1 11.1 12.1 60 30 30 60
34+15					52.5 50.1 51.1 51.5 50.7 50.3 50.0 9.4 11.8 10.2 10.4 11.2 11.6 11.9 60 27 23 30 50 65
33+74					55.3 53.8 51.1 50.0 49.9 48.8 47.6 6.6 8.1 10.8 11.9 12.0 13.1 14.3 60 40 15 30 50 60
33+48.92					56.2 54.8 53.4 53.0 51.9 5.7 7.1 8.5 8.9 10.0 60 30 30 60
33+00					57.6 57.8 57.0 56.6 56.1 55.8 55.4 4.3 4.7 4.9 5.3 5.8 6.1 6.5 65 40 20 20 40 60
TBM.	3.37	61.85	58.48	See pg 12 This F.B.	61.85

Cont'd From Page 25

36+50				
36+15				
T.P	10.49	83.50	0.25	73.01
35+85				
35+50				
35+25				
35+00				

73.26

Lt ℄ Rt 26

82.1	79.3	76.1	72.7	67.3	59.1	57.2	52.5	51.1
1.4	4.2	7.4	10.8	16.2	24.4	26.3	31	32.4
60	38	22		20	50	64	69	82

82.8	82.0	78.5	72.6	10.9	63.8	59.1	57.8
0.7	1.5	5.0	10.9	12.6	19.7	23.8	25.7
65	50	30		16	43	35	65

83.50

76.1	72.6	10.6	68.3	65.8	63.4
+2.8	0.7	2.7	5.0	7.5	9.9
60	30		30	50	60

70.6	68.6	67.4	66.8	65.1
2.7	4.7	5.9	6.5	7.6
60	30		30	60

67.1	66.8	66.4	65.6	64.9
5.6	6.5	6.9	7.8	8.4
60	30		30	60

63.3	62.5	63.0	60.1	58.6
10.0	10.8	10.3	13.2	14.7
60	30		30	60

73.26

Cont'd From Page 26

					Lt			℄		Rt		
38+00					58.8	57.2	55.8	54.5	54.9	49.6	48.7	49.2
					2.9	4.5	5.9	7.2	6.8	12.1	13.0	12.5
					74±	84±	74±	50	18	18	40	60
T.P.	0.12	61.71	12.86	61.59					61.71			
37+50					72.8	69.6	60.6	56.8	51.1	49.3	49.3	
1½:1	F5.6				1.7	4.9	13.9	17.7	23.4	25.2	25.2	
	57±				67±	57±	30		30	45	65	
37+25					75.2	73.4	71.6	65.3	58.3	56.2	49.1	49.5
1½:1	F1.8				+0.7	1.1	2.9	9.2	16.2	18.3	25.4	25.0
	61.7				61.7	51.7	41	25		14	46	65
T.P.	1.14	74.45	10.19	73.31					74.45			
37+00					77.0	75.4	71.4	64.3		59.1	51.4	50.9
X	0				6.5	8.1	12.1	19.0		24.4	32.1	32.6
	49				59	49	21			20	50	65
36+75					79.8	75.8	73.8	71.0	63.1	57.8	54.7	50.8
					3.7	7.7	9.7	12.5	20.1	26.9	31.8	32.7
					60	36	11		19	40	65	75
		83.50							83.50			

		Lt						Rt					
T.P.	7.24	60.25		8.70	53.01								
40+00						54.6	53.0	54.1	53.1	51.2	48.4	49.1	49.1	52.9	52.1	
	1½:1 F18.4	7.1	8.7	7.6	8.6	10.5	12.3	12.6	12.0	8.8	9.0	F19.2	1½:1
	64±	74±	64±	45	18		8	18	42	65±	75±	65±	
39+75						54.7	53.4	55.1	55.0	54.7	54.9	49.0	49.4	51.9	52.2	
		7.0	8.3	6.6	6.7	7.0	6.8	12.7	12.3	9.8	9.5		
		70	58	44	25		15	20	52	60	70		
39+50						53.7	52.8	54.5	53.8	54.5	55.3	48.9	49.2	49.0	52.4	
	1½:1 F19.4	8.4	8.9	7.2	7.9	7.2	6.4	12.8	12.5	12.7	8.8	F23.6	1½:1
	66±	76±	66±	42	25		16	26	60	72±	82±	72±	
39+10										49.0			
										12.7	F24.2		
										73±	73±	1½:1	
39+00						52.0	52.0	53.1	52.7	53.9	54.4	49.3	48.5			
	1½:1 F21.1	8.7	9.7	8.6	7.0	7.8	7.3	12.4	13.2				
	69±	79±	69±	50	14		17	28	60				
38+50						51.0	50.6	50.5	52.1	51.9	50.6	48.8	48.8			
	1½:1 F23.2	10.7	11.1	11.2	8.6	9.8	11.1	12.9	12.9				
	77±	87±	78	60	40		26	50	60				
38+25						53.8	52.9	51.8	49.6	48.5	49.1	49.1				
		7.9	8.8	9.9	12.1		13.2	12.6	12.6				
		85	50	25			20	45	60				
		61.71								61.71			

Cont'd From Page 28

Lt ℄ Rt 29

41+46 86 B.C.

			54.3	53.9	53.7	53.4	53.8	53.7	53.6	
1½:1	F14.3		6.0	6.4	6.6	6.6	6.5	6.6	6.7	F16.6 1½:1
	58±		68±	58±	30		30	61±	71±	61±

41+00

			53.8	54.3	54.1	53.7	53.6	53.6	53.6	
1½:1	F15.0		6.5	6.0	6.2	6.6	6.7	6.7	6.8	F17.9 1½:1
	59±		69±	59±	30		30	63±	78±	63±

40+70

		51.8	50.9	50.1	52.1	51.2	53.5	53.5	53.3
		8.5	10.1	10.2	8.2	9.1	6.8	6.8	7.0
		60	48	23	17	5		30	60

40+60

			51.3	49.4	50.1	53.7	53.6	53.1	
			9.0	10.9	10.2	6.6	6.8	7.2	
			63	28		7	40	60	

40+50

		51.8	51.7	50.1	49.9	49.6	50.0	54.2	53.4	53.3	53.4	
1½:1	F19.2	8.5	9.0	10.2	10.9	10.7	10.3	6.1	6.9	7.0	6.9	F18.5 1½:1
	65±	75±	65±	50	25		8	18	40	64±	74±	64±

40+08

	52.7	53.7	51.3	49.6	49.4	49.5	52.8	52.9	
	7.6	6.6	9.0	10.7	10.9	10.8	7.5	7.4	
	65	46	9		20	36	60	70	

60.25 ↑

60.25 ↑

Cont'd From Page 29

	6.23	68.41	5.07	62.25 = 62.18
T.P.	9.04	67.32	1.97	58.28

44+00

43+50

43+00

42+50

42+10

42+00

60.25

Lt ℄ Rt 30

40'PP Lt t.c.T. E.C. NEOC See Pg. 32 FEB. 1863

55.1	55.6	53.8	53.8	53.7	55.0	56.5	60.3	61.6
5.2	4.7	6.5	6.5	6.6	5.3	3.8	0.0	+1.3
60	30	10		X	6	25	30	45

54.8	54.0	54.0	53.9	53.5	59.4	60.8	60.3
5.5	6.3	6.3	6.4	6.8	0.6	+0.5	+0.0
60	50	30		27	40	50	60

56.1	56.1	53.2	53.4	53.7	53.1	55.0	55.0
4.2	4.2	7.1	6.9	6.6	7.2	5.3	5.3
60	45	8		30	50	54	65

56.1	55.5	55.0	54.3	52.9	52.5	52.6	
4.2	4.8	5.3	6.0	7.4	7.8	7.7	
60	30		15	21	50	60	

1½:1 F11.1 4.6
53.7 53.7

		55.3	55.2	55.4	54.2	54.4	55.3	54.6	54.4	52.3	52.2	52.3		
1½:1	F11.7	5.0	5.1	4.9	6.1	5.9	5.0	5.5	5.9	8.0	8.1	8.0	F18.5	1½:1
	54½	64½	54½	45	32		13	40	58	62	64½	74½	64½	

60.25

Cont'd From Page 30

46+50

		55.9	56.4	57.3	60.5	62.8		63.2
4:1	F5.7	12.5	12.0	11.1	7.9	5.6		5.2
	70±	80±	70±	60	54	27		Pav

46+00

		56.1	56.1	56.3	59.3	62.1	6	2.7
4:1	F6.2	12.3	12.3	12.1	9.1	6.3		5.7
	72±	82±	72±	61	52	27		Pav

45+50

		57.1	56.3	55.3	55.3	62.3		62.4
4:1	F5.9	11.3	12.1	13.1	13.1	6.1		6.0
	72±	82±	72±	60	42	17		Pav.

45+00

		56.8	56.5	56.4	54.4	60.6	62.2	61.8
1½:1	F5.9	11.6	11.9	12.0	14.0	7.8	6.2	6.6
	59±	69±	59±	55	31	14	5	

44+55

		56.2	56.1	54.3	54.3	60.6	61.6	61.8
		12.1	12.3	14.1	14.1	7.8	6.8	6.6
		60	50	45	14		11	19

44+25

		56.0	55.4	55.5	53.9	53.9	54.1	58.6	61.4	61.6
		12.7	13.0	12.9	14.5	14.5	14.3	9.8	7.0	6.8
		60	50	36	25	12		5	20	28

Cont'd From Page 31

Lt ℄ Rt . 32

49+50

		60.3	60.4	60.4	64.6	65.6	65.8	66.4
4:1	F5.4	8.1	8.0	8.0	3.8	2.8	2.6	2.0
	53±	63±	53±	51	43	37	27	Pav.

49+00

		60.2	61.1	62.2	65.3	65.1	64.8	
4:1	F3.6	8.2	7.8	6.2	3.1	3.3	3.6	
	50±	60±	50±	47	36	27	Pav.	

48+50

		58.0	57.9	58.4	64.6	64.6	65.2	
4:1	F6.2	10.4	10.5	10.0	3.8	3.8	3.2	
	61±	71±	61±	53	36	26	Pav	

47+97 48 E.C.

		56.5	57.4	57.6	59.8	63.9	64.1	64.6
4:1	F6.1	11.9	11.0	10.8	9.6	4.5	4.3	3.8
	63±	73	63	55	47	34	25	Pav.

47+50

		59.8	56.3	57.0	58.3	63.6	63.4	64.2
4:1	F5.8	12.1	11.4	10.1	4.8	5.0	4.2	
	66±	74±	66±	54	44	32	27	Pav.

47+00

		56.0	57.0	57.1	62.8	62.0	63.1	
4:1	F5.2	12.4	11.4	11.3	5.6	5.4	4.7	
	67±	77±	67±	53	40	25	Pav.	

68.41

68.41

Cont'd From Page 32

Lt ℄ Rt

51+30

68.6 68.4 68.6 68.1 68.9
+0.2 0.0 +0.2 0.3 +0.5
70 60 30 27 Pav.

51+00

63.1 63.8 67.6 67.8 68.4
5.3 7.6 0.8 0.6 0.0
80 48 33 23 Pav.

50+50

61.5 60.8 62.1 66.5 67.2 67.1
6.9 7.6 5.7 1.9 1.2 0.7
73 61 49 33 23 Pav.

50+00

61.0 61.6 63.0 66.2 66.5 67.1
4:1 F5.0 7.4 6.8 5.4 2.2 1.9 1.3
51 61 51 42 30 24 Pav.

68.41

68.41

X-Sect NEOC for Quantities

Roberts
Garber
Moore
Clark
4-4-50
WO. 22029

F.B. 2002 pg. 1 to 14

2+25

					137.2						
						135.6	132.1	128.5	125.6	111.5	103.1	98.5
					1.7	3.3	6.8	10.4	13.3	27.4	35.8	40.4
					90	80	57	40	30		16	25

2+00

				138.8							
					137.8	135.6	131.2	125.1	110.6	101.6	99.0
	C68.6			0.1	1.1	3.3	7.7	13.8	28.3	38.3	39.9
	86±			96±	86±	70	50	30		20	25

1+50

				141.6	140.5	137.2	133.3	123.1	110.7	100.9	95.5
1:1	C69.7			+2.7	+1.6	1.7	5.6	15.8	28.2	38	43.4
	87±			97±	87±	70	50	25		16	25

1+00

				140.0	141.4	135.6	124.2	109.1	100.9	94.5	
1:1	C69.2			+3.9	+2.5	3.3	14.7	29.8	38	44.4	
	87±			97±	87±	61	30		14	25	

0+50

				142.9	140.9	136.4	131.0	125.2	110.1	100.9	96.0
1:1	C67.1			+4.0	+2.0	2.5	7.9	13.7	28.8	38	42.9
	85±			95±	85±	66	45	30		16±	25

0+00

				143.0	140.6	138.9	132.1	125.8	110.3	100.9	91.6
1:1	C65.4			+4.1	+1.7	0	6.8	13.1	28.6	38	47.3
	83±			93±	83±	71±	50	27		12±	25

T.P.	13.05	138.85	7.02	125.80	
BM	1.42	132.82		131.40 (100' RP Lt Sta. 3+00)	

138.85

Cont'd From Page 34

Station	BS	HI	FS	Elev.
4+50				
T.P.	0.27	107.50	12.72	107.23
4+00				
3+50				
T.P.	1.44	119.95	12.94	118.51
3+00				
T.P. BM	0.05	131.45	7.45	131.40
2+50				
		138.85		

Lt — ℄ — Rt

4+50

		108.1	107.30	106.8	105.4	103.1	101.0	99.4	98.6	
1:1	C40.6	+0.6	0.2	0.7	2.1	4.4	6.5	8.1	8.9	C30.2 3/4:1
	58.6	68.6	58.6	36	15		17	34.5	44.5	34.5

107.50

RP in wrong

4+00

		117.5	116.6	114.9	112.9	109.2	106.8
1:1	C49.4	2.5	3.4	5.1	7.1	10.8	13.2
	67.4	77.4	67.4	50	30		25

3+50

		124.1	123.4	121.0	120	116.6	114.8
1:1	C56.3	+4.1	+3.4	+1.0	0	3.4	5.2
	74.3	84.3	74.3	50	35		25

119.95

3+00

		130.4	129.2	126.3	124.1	120.9	114.1
1:1	C61.3	1.1	2.3	5.2	7.4	10.6	17.4
	79.3	89.3	79.3	50	30		25

131.45

2+50

		135.1	133.9	132.4	130.7	124.2	115.9	108.9	104.3
1:1	C65.6	3.8	5.0	6.5	8.2	14.7	23.0	30	34.6
	83.6	93.6	83.6	70	57	20		16	25

138.85

Cont'd From Page 35

5+70				
T.P.	0.46	70.54	12.54	70.08
5+50				
T.P.	0.47	82.62	12.89	82.15
5+25				
5+00				
T.P.	0.50	95.02	12.98	94.52
~~5+00~~				
4+75				
		107.50		

Lt ℄ Rt

68.9 69.0 68.7 68.5 68.6
1.6 1.5 1.8 2.0 1.9
20 10 12 22 0 12 X

70.54

77.9 77.3 78.0 78.6 78.9 79.4 80.1
1:1 C11.5 4.7 5.3 4.6 4.0 3.9 3.2 2.5 C10.2 3/4:1
29± 39± 29± 16 11 19± 29± 19±

82.62

84.8 85.2 85.7 86.9 87.8 89.2 90.1 91.0
10.2 9.8 9.3 8.1 7.2 5.8 4.9 4.0
50 39 18 16 25 35 45

94.2 94.1 94.0 93.6 93.0 93.6 94.0
1:1 C28.1 0.8 0.9 1.0 1.4 2.0 1.4 1.0 C24.8 3/4:1
46± 56± 46± 23 20 30± 40± 30±

95.02

102.0 102.1 101.6 98.0 96.9 96.3
5.5 5.4 5.9 8.9 10.6 11.2
60 50 30 20 40

107.50

Cont'd From Page 36

			Lt.			℄			Rt.		
7+50			53.9	53.6	53.2	52.7	51.4	50.6	50.6		
	1½:1	F10.1	9.3	9.6	10.0	11.0	11.8	12.6	12.6	F16.4	1½:1
		32	42	32	20		20	35	45	35	
7+00			51.6	52.8	52.2	52.7	51.6	51.4	50.3		
	1½:1	F11.3	11.6	10.4	11.0	11.0	11.6	11.8	12.9	F16.0	1½:1
		34	44	34	20		20	35	45	35	
6+50			53.0	53.8	53.3	52.2	52.2	51.8	51.1		
	1½:1	F10.8	10.2	9.4	9.9	11.0	11.0	11.4	12.1	F16.1	1½:1
		33	43	33	20		18	35	45	35	
6+25			58.6	57.0	56.3	55.9	55.5	55.1	54.5	52.8	
			4.7	6.2	6.9	7.3	7.7	8.1	8.7	10.4	
			50	40	30	18		15	40	50	
T.P.	5.31	63.19	12.66	57.88		Stub on Lt of Approx 6+20					
						63.19					
6+00			60.5	59.6	59.4	59.1		58.9	59.5	59.0	
	1½:1	F5.2	10.0	10.9	11.1	11.4		11.6	11.0	11.5	F8.7	1½:1
		24	34	24	12			1.3	24	34	24	
5+75			65.5	65.6		66.0		66.2	66.2		
	X	0	5.0	4.9		4.5		4.3	4.3		
		18	28	18				13	20		
		70.54				70.54					

Cont'd From Page 37

		Lt			℄			Rt	
10+75	1½:1 F5.4 25.1	56.6 6.6 35.1	56.0 7.2 25.1	57.0 6.2 14	56.2 7.0	55.2 8.0 16	54.8 8.4 26.8	53.8 9.4 36.8	F10.0 1½:1 26.8
10+50	1½:1 F5.2 24.8	56.4 6.8 34.8	56.2 7.1 24.8	56.5 6.7 14	56.1 7.1	55.9 7.3 16	54.8 8.4 26.2	54.1 8.5 36.2	F10.1 1½:1 26.2
10+00	1½:1 F4.4 23.6	51.6 5.6 33.6	51.2 6.0 23.6	51.0 6.2 13	56.4 6.8	55.8 7.4 13	55.2 8.0 25.2	55.2 8.0 35.2	F9.8 1½:1 25.2
9+50	1½:1 F5.8 25.2	55.3 7.9 35.2	56.2 7.0 25.2	56.0 7.2 13	55.8 7.4	55.6 7.6 14	55.1 8.1 26.2	54.6 8.6 36.2	F10.2 1½:1 26.2
9+00	1½:1 F7.2 27.8	54.6 8.6 37.8	55.1 8.1 27.8	54.5 8.7 18	54.7 8.5	54.2 9.0 20	54.1 9.1 28.7	53.7 9.5 58.7	F11.7 1½:1 28.7
8+50	1½:1 F8.2 30.2	53.8 9.4 40.2	54.3 8.9 30.2	53.9 9.3 20	53.5 9.7	53.2 10.0 20	53.2 10.0 30.4	53.8 9.4 40.4	F12.9 1½:1 30.4
8+00	1½:1 F9.0 30.2	54.5 8.7 41.2	54.2 9.0 30.2	53.7 9.5 20	53.0 10.2	52.6 10.6 20	52.1 11.1 32.6	51.8 11.4 42.6	F14.4 1½:1 32.6

63.19

63.19

Cont'd From Page 38

check 0.88 62.31 = 62.18

40'RP EC & NEOC

12+57.25 E.C.

51.4 51.1 55.6 54.9 54.9
5.8 6.1 7.6 8.3 8.3
42 31 24 11 T.o.S.

12+00

56.9 56.1 54.9 54.5 54.1
6.3 7.1 8.3 8.7 8.5
40 20 12 23
T.o.S.

Curve is tangent to Federal

11+55

55.7 55.6 55.6 55.3 53.9 53.9
7.5 7.6 7.6 7.9 9.3 9.3
45 20 13 28 42
T.o.S.

11+35

54.4 54.4 54.3 54.4 54.3 54.5 53.9
8.8 8.8 8.9 8.8 8.9 8.7 9.3
40 30 17 15 28 40

10+95

56.1 55.7 55.0 54.4 54.7 53.8 53.5
7.1 7.5 8.2 8.8 8.5 9.4 9.7
40 28 17 16 28 42

63.19

63.19

X-Sect NWIL for Quantities

Roberts
Garber
Moore
Clark
7-5-50
W.O. 22029

See FB 2002 pg 32

					Lt	℄	Rt	40
1+00					1:1 C 8.4 (26 Lt)	6.9.3 / 9.3 (36 Lt)	6.9.8 / 8.8 (26 Lt)	10.8 / 7.8 (17)
					12.2 / 6.4	14.1 / 4.5 (20 Rt)	16.8 / 1.8 (30 Rt)	C 9.4 Daylite (20 Rt)
T.P.	105	78.56 ↑	12.59	77.51		78.56 ↑		
0+75					1:1 C 11.5 (29 Lt)	11.4 / 18.7 (39 Lt)	12.9 / 17.2 (29 Lt)	15.1 / 14.4 (15)
					11.4 / 12.7	82.1 / 7.4 (23)		
0+50					1:1 C 15.3 (33 Lt)	13.4 / 16.7 (43 Lt)	15.9 / 14.2 (33 Lt)	80.1 / 9.4 (13)
					83.4 / 6.7	86.3 / 3.8 (25)		
0+25					1:1 C 17 (35 Lt)	14.2 / 15.9 (45 Lt)	17.1 / 13.0 (35 Lt)	83.5 / 6.6 (13)
					85.2 / 4.9	86.6 / 3.5 (25)		
0+00	BC				103+71.72 1:1 C 17.7 (45 Lt) From ℄ Wabash → 74.2	14.1 / 15.4	78.3 / 11.8 (35 Lt)	80.8 / 9.3 (27)
					83.9 / 6.2 (13)	85.2 / 4.9	86.3 / 3.8 (25)	
BM	4.92	90.10 ↑		85.18	On Hub 0+00 BC. see pg 32 FB 2002	90.10 ↑		

Same

From ℄ NWIL

Should be shown in X Sect of Wabash

Cont'd From Page 40

					Lt			℄			Rt		
2+25													
2+20.80	PCC												
1+97						60.1	61.7	61.8	62.2	62.0	62.3	62.3	
					1½:1	F3.1	6.8	5.2	5.1	4.7	4.9	4.6	4.6	F6.0	1½:1
						21.2	31.2	21.2	12		13	20	30	20	
1+75						61.2	61.0	61.1	61.8	62.2					
						5.7	5.9	5.2	5.1	4.7				C5.02 to FL	
						30	14		17	30				17	Storm Drain
1+62						60.8	61.2	61.2	62.2	62.4	64.1	64.3	66.1		
					1½:1	F2.2	6.1	5.7	5.7	4.7	4.7	2.8	2.5	0.8	F2.4	1½:1
						20.2	30.2	20.2	13		7	10	14.6	24.6	14.6
T.P.	1.09	66.87	12.78	65.78											
						61.2		61.7	63.6	67.2		69.6			
						5.7		5.2	3.3	+0.4		+2.8			
						30		16		3		25			
									66.87						
1+50						61.5	62.5	64.3	65.9	67.8	69.2		70.2		
					X	0	17.1	16.1	14.3	12.7	10.8	9.4		8.4	C3.5	1:1
						22.0	32	22	18	4		15.5		25.5	15.5
1+25						64.2	67.1	68.3	69.2		71.1		72.6		
					Gone	14.4	11.5	10.3	9.2		7.2		6.0	C6.2	1:1
						37	27	15			20.2		30.2	20.2	
		78.56							78.56						

Cont'd From Page 41

42

					Lt	℄	Rt
T.P.	1.40	61.47	6.80	60.07			
		↑			stub on Lt sta 4+50		
4+00					58.6		
					8.3	59.3 7.6	60.0 6.9
					42	32	15
3+50					57.4	57.5 58.9	59.7
					9.5	9.4 8.0	7.2
					43	33	16
3+25					57.6	58.2	58.5
					9.3	8.7	8.4
					30	15	
3+00					56.5	56.7 57.1	57.1
					10.4	10.7 9.8	9.2
					40	30 15	
2+75					56.6	56.6	56.7
					10.3	10.3	10.2
					30	15	
2+50					58.6	58.8 57.7	59.9
					8.3	8.6 7.7	7.0
					38	28 14	

					Lt	℄	Rt
					61.0	62.0	61.6
					5.9	4.9	5.3
					24	26	36
					58.8		59.7
					8.1		7.7
					15		30
Gone					57.1	58.4	58.5
					9.2	8.5	8.4
					15	29	39
					57.4		58.0
					9.5		8.7
					16		30
					59.0	58.5	58.9
					7.9	8.4	8.0
					14	26	36

1½:1	F16.6						F10.0 1½:1
	32						26
1½:1	F11.2						F12 1½:1
	33						29
1½:1	F7.3						F10.4 1½:1
	28						26

66.87 ↑

66.87 ↑

Contd From Page 42

	Lt			℄		Rt	
6+50	54.9	54.8	55.4	54.1	52.5		
	6.6	6.7	6.1	7.4	9.0		
	45	30	18		20		
6+25		56.7					
			56.3	56.0	56.2		
		5.3	5.2	5.5	5.3		
		40	20		20		
6+00		56.1	57.5	57.1			
1½:1	F15.8	4.8	4.0	4.4	3.7	4.1	
	48	50	40	20		20	
5+50		57.8	58.6	58.7	59.1	58.3	58.7	58.9
1½:1	F14.3	3.7	2.9	2.8	2.4	3.2	2.8	2.6
	38	48	38	20		20	35	45
5+00		58.2	59.1	59.0	58.8	59.3	59.7	59.8
1½:1	F12.3	3.3	1.8	2.5	2.7	2.2	1.8	1.7	F15.2 1½:1
	35	45	35	20		15	34	44	34
4+69.54 PCC									
4+50		58.6	60.1	59.5	59.8	59.9	60.1	
1½:1	F11.0	2.9	1.4	2.0	1.7	1.6	1.4	F14.5 1½:1
	33	43	33	20		32	42	32.8

Federal
x Sect
covers
this

61.47

61.47

Cont'd From Page 43

						Lt	℄	Rt
check			1.06	85.14 = 85.18	Start BM			
T.P.	12.95	86.20	0.38	73.25				
T.P.	12.44	73.63	0.28	61.19				
check			2.90	58.57 = 58.48	See pg. 12			
6+96.30 E C						54.1		
					1½:1 F197	7.4	6.0	9.0
					46	56	46	33
							55.5	52.5
								50.4
								10.1
								51.7
								9.8
								20
		61.47					61.47	
							1	

Roberts
Garber
Moore
Clark
4-5-50
WO22029

X-Sect S.W.I.L. for Quantities

See F.B. 2002 pg 27

		Lt.			℄		Rt			
1+50		55.9	56.0	55.9	56.5	57.2	57.2	57.4		
	1½:1 FB 3	3.7	3.6	3.7	3.1	2.4	2.4	2.2	F 15.6	1½:1
	37	47	37	20		2.1	35℄	45℄	35℄	
1+25		56.0	56.2	56.1	56.5	56.8	56.9			
		3.6	3.4	3.5	3.1	2.8	2.7		F 17.2	1½:1
		45	25		22	39℄	49℄		39℄	
1+00		55.9	56.4	56.7	56.3	56.6				
	1½:1 F 14.7	3.7	3.2	2.9	3.3	3.0				
	39℄	49℄	39℄	20		35				
0+50		53.5	54.9	55.6	56.6	57.0				
	1½:1 F 18.3	6.1	4.7	4.0	3.0	2.6				
	44℄	54℄	44℄	26		35				
0+25		50.8	53.9	54.1	55.2	56.6				
		8.8	5.7	5.5	4.4	3.0				
		45	32	20		35				
0+00 B.C.		48.5	50.0	50.5	52.2	52.8	53.3			
		11.1	9.6	9.1	7.4	6.8	6.3			
		45	35	24		18	32			
BM	1.14	59.62		58.48	See pg. 12		59.62			

See Federal X sect.

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			2+		℄						℄+	
4+25			50.0		50.6	51.8	81.0	52.3	51.6			
			9.6		9.0	8.8	8.6	7.3	8.0			
			45		20		20	25	45			
4+00			52.7	52.7	52.4	52.1	51.9	50.8	51.7			
	1½:1	F3.9	7.4	6.9	7.2	7.5	7.7	7.8	7.9	F8.1	1½:1	
		22½	32½	22½	12		12	24½	34½	24½		
3+50			53.0	52.7	52.6	52.4	52.3	52.1	52.8			
	1½:1	F6.4	6.6	6.9	7.0	7.2	7.3	6.9	6.8	F7.7	1½:1	
		26½	36½	26½	15		14	26½	36½	25½		
3+00			53.3	53.1	53.8	53.9	53.6	53.7	54.0			
	1½:1	F8.1	6.3	5.9	5.8	5.7	6.0	5.9	5.6	F11.3	1½:1	
		29½	39½	29½	18		16	28	38	2.8		
2+50			54.5	54.9	54.5	54.2	54.8	55.1	55.2			
	1½:1	F9.5	5.1	4.7	5.1	5.4	4.8	4.5	4.4	F12.5	1½:1	
		31½	41½	31½	20		15	29½	39½	29½		
2+25				55.0	54.4	55.5		56.6	56.1	56.1		
				4.4	5.2	4.1		3.0	3.5	3.5		
				45	8			15	31	45		
2+00			55.2	55.0	55.4	54.8	55.4	56.6	57.1	57.6		
	1½:1	F11.1	4.4	3.8	4.4	4.8	4.2	3.0	2.5	2.0	F13.2	1½:1
		33½	43½	33½	29	12		16	30½	40½	30½	

59.62

59.62

Contd From Page 46

47

27 ℄ RT

5+75

45.K 44.9 44.7 44.6 44.7
4.0 4.5 4.7 4.8 4.7 : F10.2 1½:1
40 29 26± 36± 26±

5+50

44.4 45.2 44.1 44.3 44.1
1½:1 F9.7 5.0 5.2 5.3 5.1 5.3 F11.0 1½:1
28± 38± 28± 27± 37± 27±

5+25

44.4 44.2 44.1 43.4 44.2
5.0 5.2 5.3 6.0 5.2
45 23 20 45

5+00

46.4 45.4 44.8 46.6 46.6 46.1 44.2 44.1 47.6
3.0 4.0 4.6 2.8 2.8 3.3 5.1 5.3 1.8
45 31 12 8 13 18 35 45

4+75

46.5 45.9 47.8 47.4 45.3 45.1 45.8 51.4 50.4
2.9 3.5 1.6 2.0 4.1 4.3 3.6 +2.0 +1.0
42 26 22 5 12 24 30 45

T.P. 2.85 49.44 13.03 46.59

49.44

48.1 49.7 48.0 47.2 48.0 50.0 51.1 51.2
1½:1 F5.2 10.9 10.4 11.6 12.4 11.6 9.6 7.9 8.4 F7.8 1½:1
24± 34± 24± 12 20 22± 24 32± 22±

4+50

59.62

59.62

Contd From Page 47

Check			2.15	58.49	=58.48
T.P.	8.20	60.64	574	52.44	
check			4.80	53.38	=53.53
T.P.	954	58.18	080	48.64	

6+75.90 EC

6+50

6+00

49.44

Lt | ℄ | Rt

Start B.M.

0+80 Hub SEIL see fg. 21 FB2002

99+50.80

		Lt		℄		Rt		
4:1	F5.2	48.3	48.1		48.1	48.7		49.5
	76Lt	1.1	1.3		1.3	0.7		+0.1
		47Lt	37Lt			25		39

Same

		Lt		℄		Rt	
		47.3	47.0	46.4	46.6		46.7
1½:1	F5.6	2.1	2.4	3.0	2.8		2.7
	25Lt	35Lt	25Lt		25		35

		Lt			℄		Rt	
		46.4	45.7	45.2	44.9		45.2	45.3
1½:1	F6.0	3.4	3.7	4.2	4.5		4.2	4.1
	26	36	26	16			25	35

49.44

Cont'd From Page 48

2+ £ Rt 49

Cross Section South East Inner Loop
Wabash + Federal Blvd. Interchange.

TP	10.71	56.66	10.81	4592
+50				
1+00				
+50				
1+70 = P.I of Slopes on Rt				
+50				
0+00 B.C.				
BM	2.63	56.73	54.10	Mon in 4 25th St So Broadway

50.

Lt ℄ Rt

Sat. April 8. 60

Slope Grader #2072-66 — H. Simon, D. Smith, Roger Chavez, Cora

Lt			℄		Rt	
48.5	48.4	47.7	47.0	47.1	45.9	46.2
8.2	8.3	9.0	9.7	9.6	10.8	10.5
35	25.0 : F5.3	17		11	27.5 : F11.0	40.0
	1½:1				1½:1	
49.1	48.9	48.8	48.5	48.3	48.2	48.3
7.6	7.8	7.9	8.5	8.4	8.5	8.4
40	31.4 : F5.6	17		11	22.9 : F7.6	30
	4:1				1½:1	
49.0	49.2	49.1	48.6	48.3	48.0	48.2
7.7	7.5	7.6	8.1	8.4	8.7	8.5
40	27.4 : F3.6	17		11	22.8 : F3.2	35
	4:1				1½:1	
49.1	49.1	49.0	48.3	48.1	48.1	48.4
6.6	7.0	7.7	8.4	8.0	8.0	8.3
35	24.2 : F1.8	17.0		11	22.6 : F.6.4	35
	24.2				1½:1	
	4:1					
		52.0	51.4	51.1	50.4	
		4.7	5.3	5.6	6.3	
		1.3 : F0.0		11	25	
		17				
		53.5	53.8	53.8		
		2.2	2.9	2.9		
		17		11		
			58.73			

Lt. | Δ | Rt

+50

51.2 50.8 51.3 51.1 51.2 50.5 51.3
5.5 5.9 5.4 5.0 5.5 6.2 5.4
50 380 17 11.0 380 = F18.0 5.0
= F14.4
1½:1

5+0

50.4 49.7 48.4 48.3 47.9 48.9 49.6
6.3 7.0 8.3 8.4 8.8 7.8 7.1
50 37.3 17 11.0 37.4 = F17.6 50
= F13.5

+50

49.2 49.0 47.1 47.9 47.7 47.7 47.8
7.5 7.7 9.0 8.8 9.0 9.0 8.9
45 35.5 17 11.0 36.2 50
= F12.3 = F16.8

4+0

49.4 50.0 47.5 47.1 47.1 46.0
7.3 6.7 9.2 9.0 9.0 10.7
40 30.8 = F9.2 17 11.0 35.2 = F16.6 in channel

+50

49.1 49.1 47.5 47.9 46.3 45.5
7.6 7.6 9.2 8.8 10.4 11.2
40 29.2 = F8.1 17 11.0 33.6 = F15.0 in channel

3+0

49.7 48.0 47.3 46.1 46.1 46.7 46.2
7.0 7.8 9.4 10.6 10.6 10.0 10.5
50 26.3 = F5.4 17 11.0 28.9 = F11.9 40
1½:1

8+10.64

7+75

7+25

7+00

6+50

6+00

5966

4	2	Pt
49.6 49.4 49.1 47.4 49.2 56.6 7.1 7.3 7.6 9.3 7.5 0.5 65.0 52.4=F41.9 17.0 11.0 16.0: TOPCUT 1½:1 50%+		
49.3 49.3 49.2 50.0 51.4 55.2 7.4 7.4 7.5 6.7 5.3 1.5 65 52.9=F23.9 17.0 11.0 30.0		
48.2 48.6 49.4 49.1 48.9 49.6 50.3 8.5 8.1 7.3 7.6 7.8 7.1 6.4 60.0 51.7=F20.1 17.0 11.0 49.3=F46.5 60 1½:1 1½:1		
47.9 48.3 49.1 49.2 49.0 51.5 52.2 8.8 8.4 7.6 7.5 7.7 5.3 4.5 60.0 51.1=F23.7 17.0 11.0 55.5 [illegible]=F22.8		
52.8 52.7 50.8 50.0 49.4 48.0 49.3 3.9 4.5 5.9 6.7 7.8 7.8 7.4 60.0 42.1=F16.9 17.0 11.0 46.1=F23.6 55.0		
54.0 53.9 53.6 53.0 52.8 52.0 53.0 2.7 2.8 3.1 3.7 3.9 3.9 3.7 60.0 47.0=F18.3 17.0 11.0 37.6=F17.7 55.0 1½:1 1½:1		

5966

Final Cross Section Federal Blvd.
Station 28+00 to 31+00

Survey 81
Rod Session
Rapp
Bertolucci
Fritz

Lt = North

Rt = South

+35

8.15 / 10.87 — Rock 1.0'

8.0 8.3 5.9 6.23 8.74 8.29 8.26 8.24 8.74 10.97 11.1 8.5 10.7
10.2 7.0 4.0 33.8 Δ 1.6 1.6 Δ 34 - SNRC 35 4.2 5.3
NW 2.0C

30+00

7.32 7.3 5.6 5.81 8.41 7.92 7.94 7.94 8.42 10.63 11.4 9.6 9.3
9.4 - SNRC 6.1 3.9 33.7 - NNWRC 1.6 Δ 34.4 - SNRC 3.8 4.0 5.0 - Rock at Rock
NW 2.0C

+50

6.40 6.2 5.40 8.05 7.53 7.53 7.53 8.01 10.44 11.2 4.0
7.5 - SNRC 5.3 3.4 - NNWRC 1.6 Δ 34.4 - SNRC 3.8 4.5.0
NW 2.0C

29+00

5.10 4.9 4.16 7.40 6.91 6.89 6.90 7.41 9.78 10.7 3.1
6.4 - SNRC 4.9 3.4 - NNWRC Δ 1.6 1.6 Δ 34 - SNRC 3.7 4.5
NW 2.0C

+50

4.11 3.8 4.07 6.61 6.13 6.11 6.11 6.58 9.01 9.9 3.1
5.2 - SNRC 4.3 3.37 - NNWRC Δ 1.6 1.6 Δ 33 - SNRC 3.7 4.4.3
NW 2.0C

28+00

3.11 3.1 3.98 5.66 5.19 5.16 5.15 5.54 8.10 9.0 2.7
4.0.5 - SNRC 3.8 3.5 - NNWRC 5.1 - Gutter 1.6 - Curb 1.6 - Curb 5.1 - Gutter 33 - SNRC 3.8 4.8.5
NW 2.0C

B.P. Hinlet Rt 31+0 Federal

BM 10.54 84.20 73.66 84.20

					Lt.														Rt.
21+00					526	50	66	66	54	26	26	457	404	402	403	451	690	605	647
					1427	138	116	78	46	38	33.7	Δ-Gut	16-Cb		1.6-Cb	Δ-Gut	345 angle	345-Cb	38-Top Fill
											1.6-HW RC								
21+73					457	42	58	21	232	441	391	392	393	141	630	61			
					1287	121	85	39	33.3	Δ	1.6		1.6	Δ	341	41-Top Fill			
									1.6-HW RC						341-SW RC				
21+55					442	38	44	19	208	435	386	386	384	433	649	62	94		
					1183	113	83	41	34	Δ	16		1.6	Δ	347	42	52		
															347-SW RC				
TP	6.05	79.71	10.54	73.66										79.71					
20+48					888		88	84	42	646	882	832	835	821	880	1087	110	90	107
					1132		107	91	72	41	33.6-HW RC	Δ-Gutter	16-Top Cb		1.6-Top Cb	Δ-Gutter	355	37	40	48
																	355-SW RC		
		84.20												84.20					

Final Cross Section Mabarks Blvd.

Section H

Sta. 102+64 to 109+0

June 18-51
H Sisson
Rorer
Bertolucci
Fritz

Notes - Rods Right + Left + Above - Below ℄

Lt. West ℄ Rt. East

REDUCED MEEHAN
July 16, 1951

102+64

67.6	71.9	72.2	69.9	58.1	58.85	59.28	59.35	59.45	59.45	59.28	58.90	58.65	70.25	15.95
+9.1	+13.4	+12.7	+16.4	-0.4	+0.40	+0.83	+0.92	7.28	+1.00	+0.83	+0.45	+0.2	+11.8	+17.5
100	86	78	70	57	54-Edge	21	7		7-Edge	21	54-Edge	57.5	67	19

103+0

73.5	58.61	59.62	60.01	60.18	59.31	60.16	60.10	59.59	59.81	76.2
+14.3	-.06	+0.41	+0.80	+0.97	6.52	+0.95	+0.89	+0.38	0.0	+17.0
71	57	54-Edge	21	7		7	21	54-Edge	57	14

102+64 TP 5-12 65.73 12.12 60.61

BM 6.80 72.73 66.13

MX 8P
HW 8-72 Cen.
11+04 N 41 0 C

103+50

78.4	59.2	60.02	61.08	61.19	10.57	61.27	61.12	60.65	60.2	76.9
+18.1	-1.1	-0.75	+0.81	+0.92	5.46	+1.00	+0.85	+0.38	-0.1	+16.6
75	57.5	54-Edge	21	7		7	21	54	57	75

104+0

59.7	60.61	62.13	62.19	62.30	6.33	62.33	62.17	61.63	60.9	78.0
-1.6	-0.73	+0.80	+0.86	+0.97	4.40	+1.00	+0.84	+0.38	-0.4	+16.7
60	55-Edge	83	21	7-Edge		7-Edge	21	53.2-Edge	55.5	74

			69.8						76.8	75.8	73.8	71	65.1
			+9.5						+16.5	+15.5	+13.5	+10.7	+4.8
			100						100	135	170	200	250

			68.6	75.0					76.0	75.2	73.5	70.7
			+9.4	+15.8					+16.8	+16.0	+14.3	+11.5
			100	78					100	135	170	200

+86

+50

104+22

65.73

61.44 65.1
+1.71 +1.9
71.5 73'

79.9 79.6 76.2 72.8 67.2
+16.7 +16.4 +13.0 +9.6 +4.0
100' 125' 165' 200' 250'

62.15 63.95 64.46 64.19 64.06
-1.0 +0.8 +1.31 +1.04 +0.91
63.4 59' 41.7' 21' 65'

63.15 64.15 63.86 63.20 62.5 79.9
2.58 +1.00 +0.71 +0.05 -0.7 +16.7
7' 21' 55.8' 550' 73'

61.5 61.8 59.0 61.79 61.39
-0.9 -0.6 -3.4 -0.6 -1.0
140' 105' 98.4' 92' 81'

79.1 77.9 75 71.7 66.2
+16.7 +15.5 +12.6 +9.3 +4.8
100' 138' 170' 200' 250'

61.39 63.56 63.36 63.25 63.25
-1.00 +1.17 +0.97 +0.85 +0.85
77.9 44.5' 41.5' 21' 7'

63.39 63.34 63.36 63.26 62.50 61.7 79.3
+0.97 +0.87 +0.11 -0.7 +16.9
7' 21' 55.6' 550' 73'

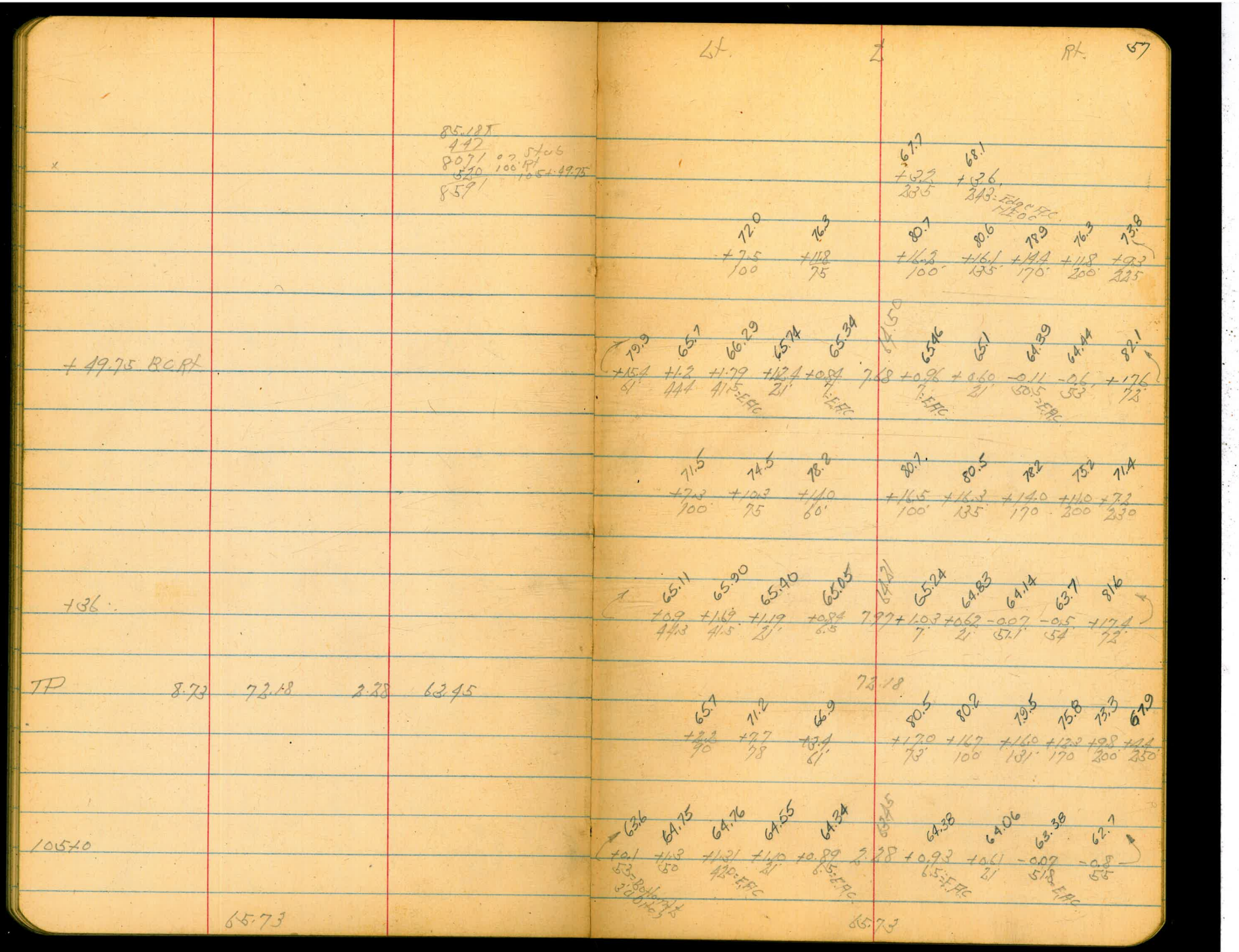
59.3 62.2 62.5 71.4 73.3
-2.5 +0.4 +0.7 +10.6 +11.5
126.8' 118' 108' 83' 78'

78.4 77.1 73.3 66.3
+16.6 +15.9 +11.5 +4.5
100' 138' 180' 250'

60.50 60.72 62.64 62.62 62.65
-1.3 -1.08 +0.84 +0.82 +0.85
65.0 62.7' 83' 21' 7'

62.80 62.35 62.66 62.02 61.4 78.1
2.93 +0.95 +0.86 +0.22 -0.4 +16.9
7' 21' 55.2' 73'

65.73


Lt.
Rt.
57
85.185
4.42
80.71
0.3 Stds
100. Rt
105+49.75
859
+49.75 RORt
+136.
TP 8.73 72.18 2.28 62.45
105+0
65.73
67.7 +3.22 233
68.1 +3.36 243 - Edge of EFC
72.0 +7.5 100
76.3 +11.8 75
80.7 +16.2 100
80.6 +16.1 125
78.9 +14.4 170
76.3 +11.8 200
73.8 +9.3 225
79.9 +15.4 61
65.7 +1.2 444
66.29 +1.79 41.5 - EFC
65.74 +1.24 21
65.34 +0.84 7 - EFC
7.68
65.46 +0.96 7 - EFC
65.1 +0.60 21
64.39 -0.11 60.5 - EFC
64.44 -0.06 53
82.1 +17.6 73
71.5 +7.3 100
74.5 +10.3 75
78.2 +14.0 60
80.7 +16.5 100
80.5 +16.3 125
78.2 +14.0 170
75.2 +11.0 200
73.4 +7.2 230
65.11 +0.9 44.3
65.90 +1.69 41.5
65.40 +1.19 21
65.05 +0.84 6.5
7.97
65.24 +1.03 7
64.83 +0.62 21
64.14 -0.07 57.1
63.7 -0.5 54
81.6 +17.4 72
72.18
65.7 +2.2 90
71.2 +7.7 78
66.9 +3.4 61
80.5 +17.0 73
80.2 +16.7 100
79.5 +16.0 131
75.8 +12.3 170
73.3 +9.8 200
69.9 +6.4 230
63.6 +0.1 53 - Bottom of 3rd Ditch
64.75 +1.3 50
64.76 +1.31 42 - EFC
64.55 +1.10 21
64.34 +0.89 8.5 - EFC
2.28
64.38 +0.93 6.5 - EFC
64.06 +0.61 21
63.38 -0.07 51.8 - EFC
62.7 -0.8 55
65.73

Final Cross Section Wabash Blvd
Sec "H"

+50 : 10 lot

+40

+25

106+0

7218

Lt

67.7 62.4 69.6
+1.0 -4.3 +2.9
930 175 85
18" culvert

65.1 68.6 68.93 67.99 67.53
+2.4 +1.0 +2.20 +1.26 +0.80
45' 43' 40.5 21 7
Edge Pvmt Edge Pvmt

64.2 62.7 67.4 69.5 70.6
-2.2 -8.7 +1.0 +3.1 +4.2
118 106 92 84 80
30" CMP

69 68.0 68.72 67.8 67.44
+2.6 +1.6 +2.20 +1.38 +0.82
45.3 43.5 40.8 21 7

64.8 74.6 77.8
-1.3 +8.5 +11.7
106 81 67

77.9 67.5 68.34 67.46 66.94
+1.18 +1.4 +2.24 +1.36 +0.84
58 43.5 40.8 21 7

69.4 75.0 78.8
+2.8 +9.4 +13.2
105 90 73

79.1 66.17 67.77 66.88 66.24
+1.35 +0.60 +2.20 +1.31 +0.67
58 44 40.5 21 7
Edge Pvmt Edge Pvmt

Rt

.832 82.9 68.3 69.
+1.45 +1.63 +1.6 +2.2
100 147 159 166
Edge Pvmt

67.71 67.11 66.33 66.58 84.1
+0.98 +0.38 -0.40 -0.2 +17.4
9 21 43.4 47.5 84.0
Edge Pvmt Edge Pvmt

82.8 8.21 68.4 68.9
+1.64 +1.57 +1.20 +2.5
100 135 166 172
Edge Pvmt

67.53 66.94 66.24 65.7 83.92
+1.11 +0.52 -0.18 -0.7 +17.5
7 21 44.0 48.5 86.
Edge Pvmt

82.3 82.6 81.3 68.2 68.9
+1.63 +1.65 +1.52 +2.1 +2.8
100 135 157 180 184
Edge Pvmt Edge Pvmt

67.8 66.6 65.94 65.2 83.5 82.7
+1.08 +0.51 -0.14 -0.9 +17.4 +16.6
65 21 44.8 48.5 89 73

81.6 81.8 81.4 68.4 68.6
+1.60 +1.62 +1.58 +2.8 +3.0
100 135 184 196 202
Edge Pvmt Edge Pvmt

66.59 66.08 65.37 64.8 83.5 82.0
+1.02 +0.51 -0.30 -0.8 +17.9 +16.4
7 21 47.0 50 69 98
Edge Pvmt Edge Pvmt

7218

+27

+15

107+0

106+75

72.18

72.18

Lt. Work

Rt. Forth

69.9
0.0
62'

70.9
+1.0
80'

70.67
+0.76
86.0 - Edge HC
HE OC

1087+05

71.8 72.1 72.18 71.36 70.76 69.91 70.95 70.32 69.50 68.51 69.7
+1.9 +2.2 +2.27 +1.45 +0.85 2.37 +1.04 +0.41 -0.41 -1.4 -0.2
75 45 40.7 Edge HC 21 7 7 21 41.5 Edge HC 44 48

69.7
0.0
64'

70.7
+1.0
85'

70.51
+0.85
91.2 - Edge
HC HE OC

1 +93

71.6 71.9 71.99 71.13 70.54 69.96 70.7 70.10 69.26 68.46 69.3
+1.9 +2.2 +2.33 +1.47 +0.88 2.55 +1.04 +0.44 -0.40 -1.2 -0.4
75 45 40.5 Edge HC 21 7 7 21 41.9 Edge HC 43 47

69.2
+0.4
75

70.4
+1.6
164

69.02
+1.27
116 - Edge HC
HE OC

1107+50

70.4 71.1 71.08 70.16 69.58 68.75 69.62 69.27 68.46 67.5 68.2
+1.6 +2.3 +2.33 +1.41 +0.83 2.43 +0.87 +0.52 -0.29 -1.3 -0.6
75 45 40.5 Edge HC 21 7 Edge HC 7 Edge HC 21 41.3 Edge HC 44 47

7218

7218

Final Cross Sections Nabors 8 Blvd.
Section H

Lt. Rt. 61

109+40

12.2 14.1 14.15 13.43 72.81 71.94 72.79 72.41 71.64 72.20
+0.8 +2.2 +2.21 +1.49 +0.87 0.24 +0.85 +0.47 −0.30 +0.26
63' 45' 40.5 Edge AC 21' 7' Edge AC 65' Edge AC 21' 141.3 Edge AC 53.2 Edge AC

71.6 72.2 70.9 71.4 71.00
+0.7 +1.3 0.0 +0.5 +0.13
75 54' 48 63' 70.3 Edge AC

108+50

73.1 73.16 72.25 71.83 70.88 71.79 71.33 10.46 10.0
+2.2 +2.28 +1.87 +0.95 1.30 +0.91 +0.45 −0.42 −0.9
45' 40.5 Edge AC 21' 7' Edge AC 7' Edge AC 21' 41.3 Edge AC 43'

72.18 72.18

Final Cross Section Stakeout Bkd.

Section A' 174+80 to 176+75

Lt = West

Rt = East

Surv 72-61
Arsivos
Rorer
Bertolucci
Fritz

+4.7 +10.9
56 77

188.91

-2.09 -0.6 -0.06 +0.27 +0.8 4.16 +0.31 +0.38 0.0 0.0
75 47 42 21 7 7 21 43 47
Top Slope Edge HC Edge HC Edge HC

+7.3 +12.5
60 73

187.98

-2.08 -0.6 +0.19 +0.55 +0.42 5.39 +0.63 +0.59 +0.21 +0.2
76 51 43 21 7 7 21 43 46

187.39

-2.13 -1.0 +0.32 +0.74 +0.8 5.98 +0.85 +0.86 +0.39 +0.7 +7.7
76 52 43 21 7 7 21 43 44 60
Top Slope Edge HC Edge HC Edge HC Edge HC

8.8 High

BM 154 193.27 191.72 Lt 176+85 193.27

Lt. Z Rt.

-57
88

+193
103
-79°
CU

+196
113

174.68

+77

-23 +07 -02 1108 -07 +01 +07 +36
58 40 21 21 38 88 8 -84°
CUT

TP 317 18576 1068 182.59

18576

+181
188.5
-79°
CUT

+275
95

175+50

1898

-212 -05 -021 +002 3.46 0.02 -010 -30 -36
74 14 38 21 21 37 41 57
-74°
Slop
-54°
Cut
-52°
Slope

19227

19227

Lt. | Rt.

-2.26 79' outlet 18" Storm Drain

-3.3 57' Bottom Curb | +3.77 88' = Top Curb | +4.01 95'

+3.5 = Storm Drain

-0.5 -0.46 +0.13 -0.02 4.43 +0.08 +0.05 -0.39 -0.7
47' 43' Grate | 21' | 7' | 19.57 | 13' Face | 7' Edge Rod | 21' | 41' Top of Curb

-2.26 80'

-12.5 +3.77 +8.95
65' = Bot Curb | 94' = Top Curb | 115'

+2.5

-1.0 -0.27 -0.14 -0.05 4.43 0.0 -0.17 -0.34 -0.6
46' | 37' = HW Brg on Deck | 21' | 7' | 19.57 | 7' | 21' | 41' Edge Rod | 46'

TP 10.81 19.597 0.60 18.516

19.597

-6.5 70' = Top Curb

+5.15 +5.23
102' = Top Curb | 115'

176+0'

-2.7 -3.4 -1.9 9.84 -0.1 -0.7 0.0 +1.3
60' | 39' | 21' | 175.92 | 21' | 68' | 60' | 80' = Bot Curb

185.76

185.76

Lt. Rt.

232.747
1.990
234.80 on BP
Sta 6
17720
233.25

2071-41

BP Hinkel
4176+25
191.73

B.M. 4.26 191.71

-20.2
76: Top

+4.23 +4.37
88: Top Cut

191.59

+75

+0.2 +0.25 +0.80 +1.06 4.38 +0.78 +0.83 +0.19 -0.1
47 43 21 7 7 21 41 45
Top Fill Edge

-20.9
77: Top
Sta 6

+4.06 +4.20
83: Top Cut

190.94

+76+50

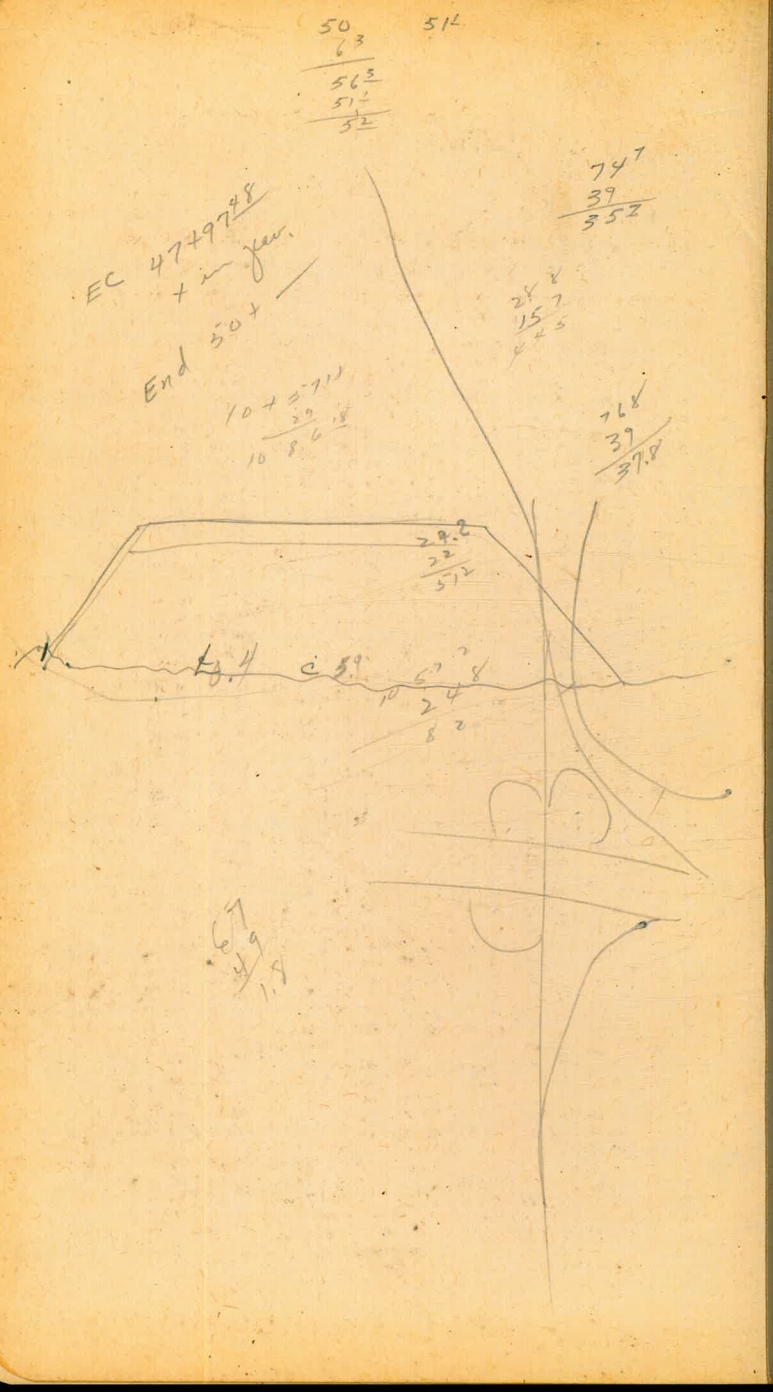
+0.4 +0.26 +1.02 +1.07 5.03 +0.98 +0.96 +0.60 -0.3
48: Top Fill 44 Edge Rec. 21 7 Edge Rec. 7 Edge Rec. 21 41.5 Edge Rec. 45

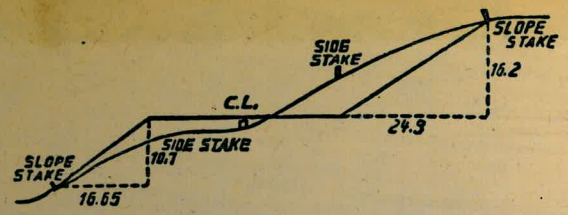
19597 19599

81.47 SWBP Market #32

86.29 → SW
86.07 → NE
} NW chisel □ F #33

131.40 RP. 100' Lt Sta. 3+00 NEDC





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	71.20	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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