

REPORT

of a

PLAN OF HIGHWAY IMPROVEMENT

in the

REGIONAL AREA OF CLEVELAND, OHIO

Based on

A SURVEY OF HIGHWAY TRAFFIC

by

THE BUREAU OF PUBLIC ROADS
U. S. DEPARTMENT OF AGRICULTURE

and

THE COUNTY COMMISSIONERS OF CUYAHOGA COUNTY, OHIO

1928

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Foreword

THIS report presents the results of highway traffic and engineering studies of the Federal-aid, State and county highway systems of the Cleveland regional area made under a cooperative agreement between the Bureau of Public Roads, United States Department of Agriculture, and the County Commissioners of Cuyahoga County, Ohio.

The investigation was undertaken in order to obtain essential facts concerning traffic and its distribution on the highways of the regional area, and the condition of present highway surfaces, structures and railroad crossings at grade, as a basis for planning the development of new arterial highways, the reconstruction and widening of present surfaces and structures, and the separation of railroad grade crossings, to serve present and expected future traffic during a period of 10 years.

The first part of the report contains a summary of the principal conclusions, the second the detailed data of the survey upon which the findings are based, and the third the plan of highway improvement.

The researches were conducted under the joint supervision of Thos. H. MacDonald, Chief of the Bureau of Public Roads, and J. R. Zmunt, J. H. Harris, and J. G. Fischer, County Commissioners of Cuyahoga County. The Board of County Commissioners was represented by J. R. Zmunt. The studies of traffic were directed by J. Gordon McKay, chief of the division of highway economics of the Bureau of Public Roads, who also supervised the preparation of the report. Dr. McKay was assisted by O. M. Elvehjem, highway economist, and E. T. Stein, J. F. Hehir, and L. E. Peabody, associate highway economists, all of the division of highway economics.

The studies of highway design and location were directed for the Federal bureau by E. W. James, chief of the division of design; the bridge studies were made by O. L. Grover, bridge engineer, and the hydrographic studies in connection with the location of bridges were made by C. S. Jarvis, highway engineer.

H. K. Bishop, chief of the division of construction of the bureau, directed the studies of the present condition of the roads and pavements, assisted by Clifford Shoemaker, highway engineer.

H. L. Beavis and C. H. Hutchinson, highway right-of-way and planning engineers, of the staff of the Cuyahoga County board, and E. J. Thobaben, assistant county prosecutor and legal adviser to the board, rendered invaluable service throughout the survey.

APPENDIX I

Motor Vehicle Traffic on the Highways of the Cleveland Regional Area

1. Cuyahoga County

Road	Route No.	Location of station	Average daily total traffic			Average Sunday traffic 1927	Average week-day traffic (Monday-Friday)—1927			
			1927	1932	1937		Total traffic	Truck traffic		
								Total	3-4 tons capacity	5-7½ tons capacity
Akins.....		W. of Broadview Rd.....	56	80	100	79	55	26	1	.....
Albion.....		W. of Webster Rd.....	61	90	110	98	55	12	1	.....
		E. of Webster Rd.....	50	70	90	79	45	8		.....
		W. of York Rd.....	114	160	200	416	63	5		.....
		E. of York Rd.....	40	60	70	146	22	1		.....
Alexander.....		W. of Walton Rd.....	28	40	50	77	21	1		.....
Anderson.....		W. of Richmond Rd.....	341	490	590	458	304	157	14	9
Aurora.....	43	Geauga County line.....	1,608	2,330	2,800	4,232	1,079	146	13	4
Avery.....		N. of Royalton Rd.....	33	50	60	89	24	2		.....
		S. of Royalton Rd.....	56	80	100	64	54	2		.....
		S. E. of Lake Shore Blvd.....	286	420	500	222	269	43	2	3
Babbitt.....		W. of Front St. (Berea).....	2,827	4,100	4,900	4,498	2,375	302	11	8
Bagley.....		E. of Front St. (Berea).....	2,287	3,320	4,000	3,591	1,929	261	28	4
		W. of Engle Rd.....	1,641	2,380	2,800	2,547	1,389	206	18	5
		E. of Engle Rd.....	1,633	2,370	2,800	2,534	1,382	205	18	5
Bainbridge.....		E. of S.O.M. Ctr. Rd.....	60	90	100	133	45	11		.....
Barr.....		N. of Richfield Rd.....	16	20	30	31	13			.....
Barton.....		N. W. of Lorain Rd.....	317	460	550	476	289	26	1	.....
		S. of Lorain Rd.....	64	90	110	95	58	3		.....
Bassett.....		N. of Detroit Rd.....	360	520	620	681	291	36	2	1
		S. of Detroit Rd.....	412	600	710	767	336	46	2	1
Bell St. (Chagrin Falls).....		E. of Russell Rd.....	274	400	470	378	244	35	1	.....
		W. of Russell Rd.....	467	680	810	628	437	70	1	.....
Benbow.....		S. of Drake Rd.....	18	30	30	30	16	2		.....
Bennett.....		S. W. of Ridge Rd.....	64	90	110	133	52	10		.....
		N. E. of Boston Rd.....	77	80	90	149	62	14	1	.....
Berea.....		N. E. of Madison Ave.....	5,384	7,810	9,300	4,181	5,488	791	*	*
		S. W. of Madison Ave.....	8,579	12,440	14,800	6,758	8,809	1,208	*	*
Bishop.....		N. of Wilson Mills Rd.....	793	1,150	1,400	1,838	556	56	2	1
Bliss (E. 222nd St.).....		N. of Lake Shore Blvd.....	247	360	430	367	228	24		.....
		S. of Lake Shore Blvd.....	1,566	2,270	2,700	1,420	1,674	202	10	12
Bluestone.....		W. of Green Rd.....	52	80	90	66	47	14		.....
Bradley.....		S. of West Lake Rd.....	373	540	640	700	302	50	2	1
		N. of Detroit Rd.....	548	800	950	983	453	78		.....
		S. of Detroit Rd.....	986	1,430	1,700	1,818	784	87	2	2
		N. of Center Ridge Rd.....	744	1,080	1,300	1,407	578	59	2	.....
Brainard.....		N. of Cedar Rd.....	328	480	570	562	285	31	1	1
		S. of Cedar Rd.....	321	460	560	548	269	20	1	.....
Brecksville.....	U. S. 21	N. of Schaaf Rd.....	4,466	6,480	7,700	9,736	3,466	450	46	19
	U. S. 21	S. of Schaaf Rd.....	2,880	4,180	5,000	6,354	2,213	237	22	12
	U. S. 21	N. of Rockside Rd.....	2,775	4,020	4,800	6,079	2,143	254	16	18
	U. S. 21	S. of Rockside Rd.....	2,757	4,000	4,800	5,960	2,136	267	20	19
	U. S. 21	N. of Pleasant Valley Rd.....	2,082	3,020	3,600	4,490	1,629	245	21	15
	U. S. 21	S. of Pleasant Valley Rd.....	1,952	2,830	3,400	4,245	1,520	210	18	14
	U. S. 21	N. of Fitzwater Rd.....	1,824	2,640	3,200	3,882	1,378	169	15	14
	U. S. 21	S. of Fitzwater Rd.....	2,038	2,960	3,500	4,305	1,545	208	18	13
	U. S. 21	N. of Station Rd.....	2,099	3,040	3,600	4,428	1,596	231	11	13
	U. S. 21	S. of Station Rd.....	1,879	2,720	3,300	3,820	1,413	192	6	12
Broadview.....	U. S. 21	N. W. of Pearl Rd.....	1,313	1,900	2,300	1,522	1,224	124	*	*
	176	S. E. of Pearl Rd.....	8,821	12,790	15,300	9,532	8,399	970	*	*
	176	N. of Schaaf Rd.....	7,098	10,290	12,300	9,028	6,528	692	28	70
	176	S. of Schaaf Rd.....	5,416	7,850	9,400	6,973	4,964	478	20	50
	176	N. of Brook Park Rd.....	4,467	6,480	7,700	5,719	4,101	420	27	45
	176	S. of Brook Park Rd.....	3,835	5,560	6,600	4,942	3,512	326	28	35
	176	N. of Short Rd.....	2,590	3,760	4,500	3,355	2,374	211	18	20
	176	S. of Short Rd.....	2,269	3,290	3,900	2,951	2,076	174	15	17
	176	N. of Wallings Rd.....	2,122	3,080	3,700	4,777	1,613	158	15	6
	176	S. of Wallings Rd.....	1,940	2,810	3,400	4,402	1,468	125	10	4
	176	N. of Oakes Rd.....	1,642	2,380	2,800	3,710	1,245	111	10	4
	176	S. of Akins Rd.....	1,587	2,300	2,700	3,653	1,178	90	10	2
Broadway ¹	8 & 14	N. W. of E. 55th St.....	14,523	21,060	25,100	12,875	14,511	2,164	*	*
	8 & 14	S. E. of E. 55th St.....	20,896	30,300	36,200	18,036	20,980	3,468	*	*
	8 & 14	Cleveland City line.....	3,078	4,460	5,300	3,649	2,901	649	70	163
	8 & 14	N. W. of Dunham Rd.....	3,885	5,630	6,700	4,818	3,552	606	76	52
	8 & 14	S. E. of Dunham Rd.....	3,141	4,550	5,400	4,002	2,852	418	49	30
	8 & 14	N. W. of Columbus St. (Bedford).....	7,800	11,310	13,500	15,217	6,363	676	59	31
	8 & 14	S. E. of Columbus St. (Bedford).....	10,160	14,730	17,600	19,504	8,356	1,052	70	38
	8 & 14	N. W. of Northfield Rd.....	8,044	11,660	13,900	15,611	6,578	701	61	32
	14	S. E. of Northfield Rd.....	3,092	4,480	5,300	6,033	2,543	275	27	13
	14	N. W. of Macedonia Rd.....	2,370	3,440	4,100	4,223	1,958	183	16	7
	14	S. E. of Macedonia Rd.....	2,175	3,150	3,800	3,876	1,794	167	15	6
	14	N. W. of Laing Rd.....	1,850	2,680	3,200	3,296	1,526	142	11	7

* Density of 3 to 7½-ton truck traffic not available within the City of Cleveland.

¹ Roadway was in poor condition on Broadway between Cleveland city limits and McCracken Road and caused traffic to be less than normal.

HIGHWAY PLANNING REPORT

(1. Cuyahoga County—Continued)

Road	Route No.	Location of station	Average daily total traffic			Average Sunday traffic 1927	Average week-day traffic (Monday-Friday)—1927			
			1927	1932	1937		Total traffic	Truck traffic		
								Total	3-4 tons capacity	5-7½ tons capacity
Harvard Ave.		W. of East 49th St.	8,361	12,120	14,500	9,437	8,126	1,193	59	205
		E. of East 49th St.	7,886	11,440	13,600	9,029	7,652	1,007	56	135
Highland		W. of East 93rd St.	6,716	9,740	11,600	7,680	6,521	870	*	*
		E. of East 93rd St.	5,536	8,030	9,600	6,356	5,368	688	*	*
		W. of Richmond Rd.	306	440	530	625	239	36	2	2
Hilliard		E. of Richmond Rd.	277	400	480	574	208	21	1	2
		W. of Miner Rd.	187	270	320	516	122	18		
		E. of Miner Rd.	23	30	40	75	14			
Hunt		On Hilliard Bridge	4,705	6,820	8,100	8,457	3,816	664	36	25
		N. W. of Bennett Rd.	231	250	260	469	181	30	1	
		S. E. of Drake Rd.	218	320	380	349	199	42	2	1
Irish		Under Clark Ave. Bridge	(5)	(5)	(5)	(5)	270	27	*	*
		W. of Stearns Rd.	673	980	1,200	1,257	521	83	5	7
Ivanhoe		E. of Stearns Rd.	738	1,070	1,300	1,370	579	99	8	7
		W. of Columbia Rd.	1,124	1,630	1,900	2,131	872	116	10	5
		E. of Columbia Rd.	2,164	3,140	3,700	3,704	1,740	270	23	5
Jackson		S. E. of St. Clair Ave.	4,278	6,200	7,400	3,914	4,252	630	*	*
		E. of Harper Rd.	89	130	150	163	69	10		
		S. of Sprague Rd.	44	60	80	70	40	10		
John		S. E. of Fitch Rd.	40	60	70	46	36	10		
		S. W. of Mayfield Rd.	6,806	9,870	11,800	8,088	6,119	415	36	45
Kennedy Ridge		N. W. of East 93rd St.	10,271	14,890	17,800	14,153	9,156	1,600	*	*
		S. E. of East 93rd St.	11,038	16,000	19,100	14,967	9,945	1,873	*	*
		U. S. 422	8,552	12,400	14,800	12,113	7,736	1,283	113	110
Kinsman		W. of Lee Rd.	5,166	7,490	9,000	8,697	4,176	667	60	86
		U. S. 422	2,098	3,040	3,600	3,598	1,815	231	21	5
Laird	87	E. of So. Kinsman Rd.	527	760	910	879	454	71	3	2
		W. of Cleveland Rd.	2,288	3,320	4,000	5,883	1,569	172	15	6
		E. of Cleveland Rd.	136	200	240	329	97	19	1	
Lake Shore Blvd		N. of Broadway	68	100	120	121	57	5		
		S. W. of East 185th St.	12,522	18,160	21,700	18,350	11,162	393	21	29
Lander		N. E. of East 185th St.	12,415	18,000	21,500	17,978	11,097	427	20	26
		S. W. of East 222nd St.	8,851	12,830	15,300	12,581	7,958	470	20	25
		N. E. of East 222nd St.	8,213	11,910	14,200	11,640	7,348	412	20	25
Lee		N. of Mayfield Rd.	1,261	1,830	2,200	1,634	1,187	133	12	5
		S. of Mayfield Rd.	923	1,340	1,600	1,543	788	106	9	4
Lee		N. of So. Woodland Rd.	78	110	140	152	70	4		
		S. of So. Woodland Rd.	66	100	110	129	60	2		
		N. of Mayfield Rd.	1,768	2,560	3,100	2,159	1,738	199	51	56
		S. of Mayfield Rd.	5,496	7,970	9,500	6,617	5,408	585	108	117
		N. of Cedar Rd.	12,716	18,440	22,000	15,400	12,467	1,236	122	133
		S. of Cedar Rd.	13,404	19,440	23,200	16,036	13,184	1,402	104	113
		N. of Buckeye Rd.	11,236	16,290	19,400	14,891	10,827	1,192	100	90
		S. of Buckeye Rd.	9,635	13,970	16,700	12,600	9,235	1,111	114	76
		N. of Kinsman Rd.	9,629	13,960	16,700	12,397	9,027	1,078	83	65
		S. of Kinsman Rd.	6,887	9,990	11,900	10,620	6,103	789	67	63
		N. of Miles Ave.	5,713	8,280	9,900	8,803	5,008	535	61	62
		S. of Miles Ave.	6,451	9,350	11,200	9,886	5,662	614	36	34
		N. of Libby Rd.	4,512	6,540	7,800	6,927	3,954	417	28	26
Lewis		S. of Libby Rd.	3,603	5,220	6,200	5,564	3,166	323	16	1
		S. of Cedar Point Rd.	123	180	210	229	98	16		
Libby		E. of Broadway	1,805	2,620	3,100	2,208	1,639	277	19	9
		W. of Lee Rd.	1,781	2,580	3,100	2,568	1,574	224	19	8
		E. of Lee Rd.	1,068	1,550	1,800	1,471	963	174	15	10
		W. of Warrensville Ctr. Rd.	382	550	660	578	359	68	3	4
Liberty		E. of Warrensville Ctr. Rd.				Under construction				
		S. of Solon Rd.	39	60	70	69	33	2		
Lindale		E. of Tiedeman Rd.	2,443	3,540	4,200	4,654	2,069	237	21	23
		W. of Tiedeman Rd.	2,427	3,520	4,200	4,622	2,057	237	21	23
Lorain Ave. & Abbey Ave.		E. of West 25th St.	11,759	17,050	20,300	8,600	11,887	3,030	*	*
		W. of West 25th St.	14,542	21,090	25,200	11,188	14,573	3,086	*	*
Lorain Ave.		E. of Denison Ave.	12,953	18,780	22,400	10,785	13,068	2,017	*	*
		W. of Denison Ave.	16,367	23,730	28,300	13,443	16,558	2,825	*	*
Lorain Rd.		E. of Rocky River Drive	9,485	13,750	16,400	13,648	8,305	1,800	*	*
		N. E. of Mastic Rd.	1,934	2,800	3,300	2,005	1,804	693	15	10
		S. W. of Mastic Rd.	3,579	5,190	6,200	4,297	3,257	832	20	15
		N. E. of Spencer Rd.	2,344	3,400	4,100	3,029	2,100	379	10	7
		S. W. of Spencer Rd.	1,955	2,840	3,400	2,498	1,758	346	5	5
		N. E. of Clague Rd.	1,166	1,690	2,000	1,534	1,041	176	3	2
		S. W. of Clague Rd.	1,121	1,620	1,900	1,513	995	158	3	2
		N. E. of Dover Ctr. Rd.	931	1,350	1,600	1,262	826	130	3	3
		S. W. of Dover Ctr. Rd.	894	1,300	1,500	1,180	788	139	3	3
		N. E. of Butternut Ridge Rd.	923	1,340	1,600	1,259	806	111	10	5
		Macedonia		S. W. of Butternut Ridge Rd.	1,009	1,460	1,700	1,403	876	101	9	4
N. E. of Stearns Rd.	701			1,020	1,200	969	611	74	3	1
S. W. of Stearns Rd.	699			1,010	1,200	969	609	75	3	1
N. E. of Barton Rd.	679			980	1,200	930	592	80	3	1
S. W. of Barton Rd.	486			700	840	653	426	65	3	1
S. of Broadway	123			180	210	210	104	15	1	

* Only weekday traffic figures available.

* Traffic on Kinsman between Lee and South Kinsman Roads low because of condition of roadway on Kinsman Road east of east limits of Shaker Heights Village.

APPENDIX

(1. Cuyahoga County—Continued)

Road	Route No.	Location of station	Average daily total traffic			Average Sunday traffic 1927	Average week-day traffic (Monday-Friday)—1927			
			1927	1932	1937		Total traffic	Truck traffic		
								Total	3-4 tons capacity	5-7½ tons capacity
Mackenzie		N. of Cook Rd.	128	190	220	241	106	23	1	
Madison		E. of Berea Rd.	16,606	24,080	28,700	12,755	16,838	2,524	*	*
		W. of Berea Rd.	16,189	23,470	28,000	12,321	16,482	2,700	*	*
Main Ave.		N. E. of Detroit Ave. (Cleveland)	7,039	10,210	12,200	3,090	7,414	560	*	*
Mastic ¹		E. of Columbia Rd.	760	1,100	1,300	1,517	625	60	3	2
		S. of Lorain Rd.	456	660	790	645	404	41	2	3
Mayfield	U. S. 322	W. of Kenilworth Rd.	3,924	5,690	6,800	4,385	3,592	528	46	57
	U. S. 322	N. E. of Kenilworth Rd.	10,014	14,520	17,300	11,797	9,050	824	72	89
	U. S. 322	S. W. of Lee Rd.	11,780	17,080	20,400	12,362	10,753	1,219	106	116
	U. S. 322	N. E. of Lee Rd.	12,626	18,310	21,800	14,386	11,510	1,322	116	126
	U. S. 322	W. of Taylor Rd.	11,403	16,530	19,700	12,871	10,425	1,314	114	108
	U. S. 322	E. of Taylor Rd.	14,104	20,450	24,400	17,204	12,700	1,642	143	135
	U. S. 322	W. of Noble Rd.	5,775	8,370	10,000	7,210	5,184	505	35	59
	U. S. 322	E. of Noble Rd.	6,480	9,400	11,200	8,006	5,824	687	58	60
	U. S. 322	W. of Green Rd.	6,102	8,850	10,600	7,553	5,481	628	55	50
	U. S. 322	E. of Green Rd.	5,423	7,860	9,400	6,767	4,887	598	52	34
	U. S. 322	W. of Richmond Rd.	5,177	7,510	9,000	6,182	4,240	529	46	24
	U. S. 322	E. of Richmond Rd.	4,305	6,240	7,400	7,565	3,543	488	42	22
	U. S. 322	W. of Lander Rd.	3,469	5,030	6,000	5,974	2,868	423	37	17
	U. S. 322	E. of Lander Rd.	3,407	4,940	5,900	5,758	2,839	464	30	18
	U. S. 322	W. of S. O. M. Ctr. Rd.	2,447	3,550	4,200	4,199	2,026	274	27	18
	U. S. 322	E. of S. O. M. Ctr. Rd.	1,473	2,140	2,500	2,524	1,220	180	25	13
	U. S. 322	W. of Chagrin River Rd.	1,195	1,730	2,100	1,980	1,001	196	17	8
	U. S. 322	E. of Chagrin River Rd.	829	1,200	1,400	1,373	691	136	16	7
Miles Ave.	43	N. W. of Lee Rd.	4,073	5,910	7,000	7,485	3,263	463	53	59
	43	S. E. of Lee Rd.	2,914	4,220	5,000	5,223	2,303	356	33	36
	43	N.W. of Warrensville Ctr. Rd.	2,326	3,370	4,000	4,300	1,828	282	36	30
	43	S.E. of Warrensville Ctr. Rd.	2,971	4,310	5,100	5,583	2,455	457	65	38
	43	W. of North Miles Rd.	3,196	4,630	5,500	5,925	2,615	493	51	40
Miller		E. of Richfield Rd.	64	90	110	99	54	14		
Miner		N. of Highland Rd.	162	240	280	453	104	16		
		S. of Highland Rd.	229	330	400	596	155	21		
Murray Hill		N. of Cedar Glen	2,373	3,440	4,100	1,835	2,352	519	30	25
Noble		N. W. of Euclid Ave.	2,317	3,360	4,000	2,044	2,255	412	*	*
		S. E. of Euclid Ave.	10,813	15,680	18,700	9,615	10,721	2,017	*	*
Northfield	8	At Greyton Rd.	10,128	14,690	17,500	9,618	9,961	1,515	132	164
	8	S. W. of Broadway	5,343	7,750	9,200	10,374	4,402	494	43	23
	8	N. of Sagamore Rd.	3,931	5,700	6,800	7,684	3,232	329	26	16
North St.		S. of Cleveland Rd. (Chagrin Falls)	2,679	3,880	4,600	6,043	1,993	229	20	14
		N. of Cleveland Rd.	1,330	1,930	2,300	3,202	942	134	11	9
North Miles		E. of Miles Ave.	1,304	1,890	2,300	2,650	1,027	253	30	21
		W. of S. O. M. Ctr. Rd.	767	1,110	1,300	1,341	588	112	26	5
		E. of S. O. M. Ctr. Rd.	751	1,090	1,300	1,361	582	92	12	2
North Morland Blvd.		N. of Larchmere (Woodland)	7,065	10,240	12,200	6,540	7,099	679	59	73
		S. of Larchmere (Woodland)	6,677	9,680	11,600	6,419	6,664	422	37	46
North Park Blvd.		E. of Chestnut Hills Drive	4,594	6,660	7,900	4,319	4,428	20	1	2
		W. of Chestnut Hills Drive	4,991	7,240	8,600	4,684	4,812	31	1	3
North Woodland		W. of Richmond Rd.	778	1,130	1,300	1,656	618	51	2	2
		E. of Richmond Rd.	619	900	1,100	1,319	491	40	2	2
		W. of S. O. M. Ctr. Rd.	505	730	870	1,074	401	35	2	1
		E. of S. O. M. Ctr. Rd.	323	470	560	587	272	28	1	
Nottingham		N. W. of St. Clair Ave.	3,421	4,960	5,900	3,780	3,285	581	*	*
		S. E. of St. Clair Ave.	1,480	2,150	2,600	1,167	1,500	254	*	*
Norwood		N.W. of Warrensville Ctr. Rd.	3,345	4,850	5,800	4,302	3,062	356	40	29
Oakes		E. of Broadview Rd.	50	70	90	43	49	6		
Pettibone		N. E. of S. O. M. Ctr. Rd.	36	50	60	85	24	2		
		W. of S. O. M. Ctr. Rd.	183	260	320	282	153	31	1	1
Pleasant Valley		W. of Brecksville Rd.	447	650	770	779	382	60	3	4
		E. of State Rd.	569	820	980	1,337	414	48	2	4
		W. of State Rd.	564	820	980	1,350	405	37	2	3
		E. of Ridge Rd.	542	790	940	1,302	386	32	2	1
		W. of Ridge Rd.	562	820	970	1,341	401	36	3	1
		S. E. of Wooster Pike Rd.	434	630	750	800	349	64	3	2
Porter		N. of Lorain Rd.	447	650	770	800	392	49	2	1
Prospect Ave.		W. of East 55th St.	8,679	12,580	15,000	6,513	8,852	1,166	*	*
Prospect Rd.		N. of Royalton Rd.	439	640	760	810	352	80	1	
		S. of Royalton Rd.	377	550	650	683	305	70		
Richfield		S. of Barr Rd.	136	200	240	218	115	18	1	
		N. E. of Barr Rd.	130	190	220	216	108	12	1	
		W. of Brecksville Rd.	498	720	860	837	416	70	9	
Richmond	175	S. of Chardon Rd.	826	1,200	1,400	1,585	635	119	10	5
	175	N. of Highland Rd.	790	1,150	1,400	1,521	603	108	11	5
	175	S. of Highland Rd.	793	1,150	1,400	1,556	611	104	12	5
	175	N. of Anderson Rd.	1,329	1,930	2,300	2,537	1,026	198	17	11
	175	S. of Anderson Rd.	1,310	1,900	2,300	2,337	1,056	295	23	15
	175	N. of Mayfield Rd.	1,676	2,430	2,900	2,864	1,381	240	21	11
	175	S. of Mayfield Rd.	1,263	1,830	2,200	2,173	1,041	174	10	8
	175	N. of Cedar Rd.	1,202	1,740	2,100	2,493	945	98	5	10
	175	S. of Cedar Rd.	1,010	1,460	1,700	2,053	795	76	5	4
	175	N. of No. Woodland Rd.	1,037	1,500	1,700	2,131	816	90	4	4
	175	S. of No. Woodland Rd.	1,172	1,700	2,000	2,432	918	88	4	4
	175	S. of South Miles Rd.	275	400	480	587	228	19	1	1

¹ Mastic Road closed between Puritas Springs and Spencer Roads.

HIGHWAY PLANNING REPORT
(1. Cuyahoga County—Continued)

Road	Route No.	Location of station	Average daily total traffic			Average Sunday traffic 1927	Average week-day traffic (Monday-Friday)—1927				
			1927	1932	1937		Total traffic	Truck traffic			
								Total	3-4 tons capacity	5-7½ tons capacity	
Ridge.....	3	S. of Wooster Pike.....	2,871	4,160	5,000	2,803	2,810	424	30	40	
	3	N. of Ridgewood Dr.	880	1,280	1,500	887	861	99	4	7	
	3	S. of Ridgewood Dr.	762	1,100	1,300	771	745	75	3	5	
	3	N. of Pleasant Valley Rd.	525	760	910	519	450	43	1	3	
	3	S. of Pleasant Valley Rd.	434	630	750	465	369	32	1	3	
Ridgewood (Bean Rd.)....	3	N. of Bennett Rd.	496	720	860	842	431	53	2	1	
	3	S. of Bennett Rd.	483	700	840	840	413	45	2	1	
	3	E. of Ridge Rd.	499	720	860	473	473	66	3	4	
Riverside Drive ⁹	232	W. of Ridge Rd.	379	550	660	361	359	45	2	3	
	232	N. of Lorain Ave.	766	1,110	1,300	393	793	290	*	*	
	232	S. of Lorain Ave.	5,391	7,820	9,300	7,588	4,724	784	*	*	
	232	N. E. of Brook Park Rd.	4,256	6,170	7,400	8,623	3,301	401	36	28	
	232	S. W. of Brook Park Rd.	4,423	6,410	7,700	9,302	3,401	417	36	26	
Riverview.....	232	N. E. of Sheldon Rd.	3,445	5,000	6,000	7,212	2,669	366	32	21	
	232	S. W. of Sheldon Rd.	3,530	5,120	6,100	7,406	2,730	366	32	21	
		N. of Station Rd.	153	220	260	380	109	20	1	.....
		S. of Station Rd.	127	180	220	308	92	18	1	.....
		N. of Snowville Rd.	286	420	500	742	209	31	1	.....
Rockside.....		S. of Snowville Rd.	290	420	500	752	211	31	1	.....
		E. of Brecksville Rd.	92	130	160	110	89	26	.....	1
		W. of Brecksville Rd.	582	840	1,000	757	540	67	3	3	
Rocky River Bridge.....	2-254 U. S. 20)	West End.	19,915	28,880	34,500	28,018	16,850	2,082	*	*	
Royaltown.....	82	N. W. of Brecksville Rd.	534	770	920	1,440	350	35	.....	3
	82	E. of Avery Rd.	502	730	870	1,526	304	32	1	1	
	82	W. of Avery Rd.	516	750	890	1,523	320	34	1	1	
	82	E. of State Rd.	563	820	970	1,375	398	80	13	6	
	82	W. of State Rd.	836	1,210	1,400	1,885	623	98	1	5	
	82	E. of York Rd.	573	830	990	1,698	354	60	3	10	
	82	W. of York Rd.	601	870	1,000	1,813	368	67	3	10	
	82	E. of Wooster Pike.....	646	940	1,100	1,917	402	87	8	16	
	82	S. W. of Wooster Pike.....	606	880	1,000	1,471	433	67	1	1	
	82	E. of Prospect Rd.	544	790	940	1,000	436	95	3	2	
	82	W. of Prospect Rd.	513	740	890	922	416	102	2	2	
	82	N. E. of Bell St.	230	330	400	268	216	37	.....	.....
	Russell (Chagrin Falls). Sagamore.....		W. of Northfield Rd.	83	120	140	216	58	6
		E. of Egypt Rd.	81	120	140	204	56	8	.....	.....
		W. of Egypt Rd.	80	120	140	204	54	8	.....	.....
		W. of Brecksville Rd.	1,914	2,780	3,300	2,616	1,779	255	27	15	
		S. E. of Broadview Rd.	2,052	2,980	3,600	2,834	1,899	250	7	11	
Schaaf.....		W. of Usher Rd.	22	30	40	47	19	2	.....	.....
Schady.....		E. of Hathaway Rd.	109	160	190	300	74	6	.....	.....
Schreiber.....		N. of Clark Ave.	14,797	21,460	25,600	16,675	14,484	1,701	*	*	
Scranton.....		S. of Clark Ave.	15,268	22,140	26,400	17,404	14,892	1,505	*	*	
Settlement.....		S. of Brook Park Rd.	1,374	1,990	2,400	2,918	1,055	149	25	8	
		N. of Wooster Pike.....	1,041	1,510	1,800	2,199	796	100	12	7	
Shaker Blvd.....		N. E. of Woodhill Rd.	4,820	6,990	8,300	7,127	4,439	55	*	*	
		W. of Coventry Rd.	3,137	4,550	5,400	3,944	3,014	130	11	14	
		E. of Coventry Rd.	3,018	4,380	5,200	3,694	2,873	128	11	14	
Sheldon.....		E. of Riverside Drive.....	12	20	20	22	10	2	.....	.....
		W. of Riverside Drive.....	173	250	300	331	138	12	1	.....
		E. of Broadview Rd.	434	630	750	831	356	47	2	4	
Short.....		W. of Broadview Rd.	110	160	190	213	89	10	.....	1
		W. of Riverview Rd.	29	40	50	81	20	1	.....	.....
Snowville.....	174	N. E. of Liberty Rd.	730	1,060	1,300	1,419	585	83	3	1	
	174	S. W. of Liberty Rd.	721	1,040	1,200	1,394	577	82	3	1	
Solon.....		E. of Cochran Rd.	83	120	140	138	72	14	1	.....
		W. of Cochran Rd.	59	90	100	102	47	4	.....	.....
		E. of Broadway.....	525	760	910	1,050	456	62	3	2	
		N. of Wilson Mills Rd.	1,554	2,250	2,700	3,524	1,121	91	7	3	
		S. of Wilson Mills Rd.	1,586	2,300	2,700	3,572	1,165	125	13	6	
S. O. M. Center ⁹	91	N. of Mayfield Rd.	1,901	2,760	3,300	4,316	1,387	140	12	3	
	91	S. of Mayfield Rd.	1,429	2,070	2,500	3,264	1,038	96	11	3	
	91	N. of No. Woodland Rd.	2,638	3,820	4,600	5,989	1,924	146	19	6	
	91	S. of No. Woodland Rd.	2,708	3,930	4,700	6,102	1,991	152	20	6	
	91	N. of So. Kinsman Rd.	1,955	2,840	3,400	4,508	1,363	94	20	1	
	91	S. of So. Kinsman Rd.	1,488	2,160	2,600	3,887	961	76	11	1	
	91	N. of No. Miles Rd.	1,236	1,790	2,100	2,977	836	81	13	2	
	91	S. of No. Miles Rd.	1,124	1,630	1,900	2,728	750	65	5	.....
	91	N. of So. Miles Rd.	1,498	2,170	2,600	3,783	1,047	99	4	1	
	91	S. of So. Miles Rd.	1,067	1,550	1,800	2,742	740	62	2	.....
	91	N. of Pettibone Rd.	996	1,440	1,700	2,863	642	64	3	1	
	91	S. of Pettibone Rd.	977	1,420	1,700	2,924	609	46	2	1	
	South Kinsman ¹⁰	U. S. 422	S. E. of Kinsman Rd.	1,677	2,430	2,900	2,882	1,446	179	20	3
		U. S. 422	N. W. of S. O. M. Ctr. Rd.	1,469	2,130	2,500	2,500	1,270	176	26	3
U. S. 422		S. E. of S. O. M. Ctr. Rd.	1,817	2,640	3,100	3,211	1,582	217	36	3	
U. S. 422		N. W. of Chagrin River Rd.	2,153	3,120	3,700	3,861	1,862	227	20	7	
174 U. S. 422)		S. E. of Chagrin River Rd.	2,147	3,110	3,700	3,852	1,858	227	20	7	
South Miles.....	43	S. E. of Miles Ave.	2,039	2,960	3,500	3,889	1,638	243	21	20	
	43	N. W. of Cannon Rd.	1,687	2,450	2,900	3,773	1,265	187	16	11	

⁹ Riverside Drive north of Lorain under construction but open to traffic.
⁹ Traffic on S. O. M. Center Road between Cedar Road and Kinsman Road heavier than normal because of condition of roadway on Kinsman Road east of east limits of Shaker Heights Village.
¹⁰ Traffic on South Kinsman low because of condition of roadway on Kinsman Road.

APPENDIX

(1. Cuyahoga County--Continued)

Road	Route No.	Location of station	Average daily total traffic			Average Sunday traffic 1927	Average week-day traffic (Monday-Friday)--1927			
			1927	1932	1937		Total traffic	Truck traffic		
								Total	3-4 tons capacity	5-7½ tons capacity
South Miles.....	43	S. E. of Cannon Rd.....	1,775	2,570	3,100	3,990	1,328	187	16	11
	43	N. W. of S. O. M. Ctr. Rd.	1,621	2,350	2,800	3,666	1,203	134	12	5
	43	S. E. of S. O. M. Ctr. Rd.	1,847	2,680	3,200	4,637	1,280	124	10	5
South Moreland Blvd.....		N. W. of Buckeye Rd.....	4,220	6,120	7,300	5,196	3,969	125	10	4
		S. E. of Buckeye Rd.....	4,838	7,020	8,400	6,630	4,440	200	12	7
South Woodland.....		E. of So. Moreland Blvd.....	4,319	6,260	7,500	6,047	4,172	643	49	73
		E. of Lee Rd.....	3,964	5,750	6,900	5,597	3,833	589	51	56
		E. of Lee Rd.....	4,237	6,140	7,300	6,061	4,164	479	40	30
		W. of Warrenville Ctr. Rd.	1,562	2,260	2,700	2,369	1,500	157	15	15
		E. of Warrenville Ctr. Rd.	1,511	2,190	2,600	2,317	1,448	132	12	10
		W. of Lander Rd.....	1,101	1,600	1,900	1,863	894	78	3	2
		E. of Lander Rd.....	1,065	1,540	1,800	1,785	859	77	3	2
		N. W. of Chagrin River Rd.	284	410	490	611	210	33	1	1
Spencer.....		S. of Lorain Rd.....	710	1,030	1,200	900	648	116	5	4
Sprague.....		E. of Jacque Rd.....	85	120	150	145	75	12	1	
		W. of Jacque Rd.....	90	130	160	151	80	12	1	
		E. of Columbia Rd.....	529	770	920	857	468	111	10	4
		W. of Columbia Rd.....	33	50	60	53	30	8		
State.....	94	N. of Brook Park Rd.....	2,766	4,010	4,800	2,738	2,709	501	47	51
	94	S. of Brook Park Rd.....	3,975	5,760	6,900	5,140	3,684	568	79	55
	94	N. of Pleasant Valley Rd.	1,233	1,790	2,100	2,287	1,011	173	25	20
	94	S. of Pleasant Valley Rd.	1,128	1,640	2,000	2,073	930	168	25	20
	94	N. of Royalton Rd.....	992	1,440	1,700	1,787	826	167	25	13
	94	S. of Royalton Rd.....	1,030	1,490	1,700	1,837	846	161	14	15
	94	N. of Edgerton Rd.....	788	1,140	1,400	1,370	655	142	12	8
	94	S. of Edgerton Rd.....	749	1,090	1,300	1,319	618	125	11	4
	94	N. W. of Wiltshire Rd.....	576	840	1,000	1,043	470	76	3	1
	94	S. E. of Wiltshire Rd.....	567	820	980	1,020	464	78	3	1
State St.....		N. W. of Washington St. (Chagrin Falls).....	48	70	80	48	46	5		
	U. S. 422	S. E. of Washington St.	3,399	4,930	5,900	7,378	2,529	261	24	4
Station.....	82	S. E. of Riverview Rd.....	379	550	660	880	262	56	2	1
	82	W. of Riverview Rd.....	493	720	850	1,170	350	75	3	1
	82	E. of Brecksville Rd.....	791	1,150	1,400	1,929	548	92	9	1
St. Claire Ave.....		S. W. of East 55th St.....	19,904	28,860	34,400	16,176	19,960	2,648	*	*
		N. E. of East 55th St.....	24,821	35,990	42,900	20,092	24,908	3,425	*	*
		S. W. of East 72nd St.....	29,695	43,060	51,400	24,263	29,746	3,741	*	*
		N. E. of East 72nd St.....	20,874	30,270	36,100	16,405	21,062	3,654	*	*
		S. W. of East 152nd St.....	8,031	11,640	13,900	6,526	8,050	1,244	*	*
		N. E. of East 152nd St.....	4,453	6,460	7,700	4,360	4,305	713	*	*
		S. W. of Nottingham Rd.....	2,895	4,200	5,000	3,000	2,772	515	*	*
		N. E. of Nottingham Rd.....	3,194	4,630	5,500	3,351	3,052	506	*	*
		S. W. of East 200th St.....	1,956	2,840	3,400	2,004	1,879	363	91	22
		N. E. of East 200th St.....	1,909	2,770	3,300	1,949	1,835	360	97	22
Stearns.....		S. of Lorain Rd.....	93	140	160	123	90	21	1	
		N. of Irish Rd.....	80	120	140	165	67	8	2	
		S. of Irish Rd.....	71	100	120	122	62	16	1	
Superior high-level bridge (West End)		E. of West 25th St.....	56,162	81,440	97,200	47,800	55,281	4,527	*	*
Superior Ave.....	U. S. 20	S. W. of East 55th St.....	33,076	47,960	57,200	32,851	31,986	2,944	*	*
	U. S. 20	E. of East 55th St.....	31,073	45,060	53,800	25,443	30,981	2,940	*	*
	U. S. 20	W. of East 105th St.....	20,288	29,420	35,100	16,698	20,182	1,617	*	*
	U. S. 20	E. of East 105th St.....	20,288	29,420	35,100	16,698	20,182	1,617	*	*
	U. S. 20	W. of Euclid Ave.....	16,004	23,210	27,700	17,271	15,206	1,157	*	*
Superior Rd.....		S. E. of Euclid Ave.....	19,768	28,660	34,200	21,488	18,773	1,437	*	*
		N. W. of Coventry Rd.....	21,423	31,060	37,100	23,567	20,282	1,242	108	134
		S. E. of Coventry Rd.....	15,796	22,900	27,300	19,738	14,553	931	81	101
Surry.....		N. of Cedar Rd.....	2,874	4,170	5,000	2,940	2,725	363	32	39
Taylor.....		S. of Mayfield Rd.....	4,465	6,470	7,700	5,514	4,162	641	56	53
		N. of Fairmount Blvd.....	2,594	3,760	4,500	3,349	2,397	353	9	31
Tiedeman.....		S. W. of Linndale Rd.....	621	900	1,100	1,198	524	52	2	4
Troyan.....		E. of Broadway.....	171	250	300	288	143	16	1	
Turney ¹¹		S. E. of Warner Rd.....	7,110	10,310	12,300	8,230	6,775	852	*	*
		N. of Garfield Blvd.....	6,111	8,860	10,600	7,057	5,831	759	54	82
		S. of Garfield Blvd.....	4,632	6,720	8,000	5,311	4,428	614	34	75
		W. of Dunham Rd.....	759	1,100	1,300	2,122	547	67	3	3
		E. of Dunham Rd.....	81	120	140	158	72	38	2	2
Union Ave.....		E. of East 93rd St.....	8,256	11,970	14,300	11,817	7,439	1,127	*	*
		W. of East 93rd St.....	8,015	11,620	13,900	11,446	7,227	1,117	*	*
Upson.....		N. of Euclid Ave.....	119	170	210	129	107	14	1	1
Usher.....		N. E. of Schady Rd.....	97	140	170	162	86	18	1	
		S. W. of Schady Rd.....	90	130	160	141	81	21	1	
Wallings.....		E. of Broadview Rd.....	472	680	820	1,304	308	61	5	
		W. of Broadview Rd.....	244	350	420	707	152	17		1
Walton.....		N. of Alexander Rd.....	80	120	140	204	58	7		
		S. of Alexander Rd.....	77	110	130	204	55	7		
Warner.....		N. E. of Turney Rd.....	13,713	19,880	23,700	16,052	13,014	1,579	*	*
		S. W. of Turney Rd.....	6,780	9,830	11,700	7,926	6,235	786	*	*
		N. of Canal Rd.....	2,162	3,140	3,700	2,533	2,069	363	16	61
Warrensville Center ¹²		N. of Mayfield Rd.....	2,233	3,240	3,900	2,677	2,028	329	33	38
		S. of Mayfield Rd.....	979	1,420	1,700	1,139	886	172	13	23
		N. of Cedar Rd.....	797	1,160	1,400	930	774	173	15	12

¹¹ Turney Road being paved but passable and open to traffic.
¹² Traffic on Warrensville Center Road between Mayfield and Kinsman Roads was abnormally low because of condition of roadway, parts of which were practically impassable.

HIGHWAY PLANNING REPORT
(1. Cuyahoga County—Continued)

Road	Route No.	Location of station	Average daily total traffic			Average Sunday traffic 1927	Average week-day traffic (Monday—Friday)—1917			
			1927	1932	1937		Total traffic	Truck traffic		
								Total	3-4 tons capacity	5-7½ tons capacity
Warrensville Ctr. ¹²		S. of Cedar Rd.	512	740	890	589	493	112	10	8
		N. of So. Woodland Rd.	321	460	560	452	289	36	1	7
		S. of So. Woodland Rd.	289	420	500	407	260	31	3	5
		N. of Norwood Rd.	611	890	1,100	678	581	108	9	9
		S. of Norwood Rd.	3,923	5,690	6,800	4,946	3,611	447	49	37
		N. of Miles Ave.	4,635	6,720	8,000	10,544	3,506	464	55	32
		S. of Miles Ave.	4,065	5,890	7,000	9,259	3,000	300	50	30
		N. of Libby Rd.	3,438	4,980	5,900	5,177	3,026	387	34	32
		S. of Libby Rd.	3,306	4,790	5,700	5,028	2,906	341	30	28
		N. of Broadway	3,300	4,780	5,700	6,033	2,738	479	32	22
		S. E. of Coventry Rd.	2,064	2,990	3,600	1,891	1,973	117	10	13
Washington Blvd.		W. of State St.	3,401	4,930	5,900	7,404	2,527	261	24	4
Washington St. (Chagrin Falls)		N. of Albion Rd.	75	110	130	121	66	12	1	
Webster		S. of Albion Rd.	59	90	100	91	54	12	1	
West Rd. (Berea)		E. of Fair Rd.	1,741	2,520	3,000	2,779	1,472	191	17	8
		W. of Fair Rd.	374	470	560	511	278	44	2	1
West Blvd.		N. of Lorain Ave.	6,192	8,980	10,700	7,826	5,761	115	10	8
		S. of Lorain Ave.	4,027	5,840	7,000	5,032	3,759	135	*	*
West Lake Rd.	2	N. of Detroit Rd.	9,301	13,490	16,100	15,017	7,285	874	*	*
	2	E. of Clague Rd.	5,429	7,870	9,400	9,849	4,073	469	17	18
	2	W. of Clague Rd.	5,444	7,890	9,400	10,048	4,140	508	17	19
	2	E. of Dover Center Rd.	4,603	6,670	8,000	8,802	3,465	329	13	14
	2	W. of Dover Center Rd.	4,542	6,590	7,900	8,664	3,422	335	13	14
	2	E. of Bradley Rd.	3,371	4,890	5,800	6,371	2,553	285	10	12
	2	W. of Bradley Rd.	3,337	4,840	5,800	6,299	2,529	288	10	12
West 25th St.	3-94-176 U. S. 42	S. of Detroit Ave.	21,696	31,460	37,500	16,862	21,647	2,273	*	*
	3-94-176 U. S. 42	N. of Lorain Ave.	11,186	16,220	19,400	10,889	10,792	1,128	*	*
	3-94-176 U. S. 42	S. of Lorain Ave.	6,639	9,630	11,500	7,231	6,277	618	*	*
	3-94-176 U. S. 42	N. of Denison Ave.	21,942	31,820	38,000	23,533	20,620	2,244	*	*
	3-94-176 U. S. 42	S. of Denison Ave.	21,018	30,480	36,400	23,218	19,643	2,119	*	*
West 25th St. (Pearl Rd.)	3-94-176 U. S. 42	N. E. of Broadview Rd.	24,920	36,130	43,100	26,270	23,517	2,929	*	*
	3-94-176 U. S. 42	S. W. of Broadview Rd.	19,585	28,400	33,900	20,475	18,870	2,698	*	*
West 28th St.		N. of Franklin Ave.	3,357	4,870	5,800	3,249	3,298	445	*	*
		S. of Franklin Ave.	1,695	2,460	2,900	1,546	1,564	204	*	*
West 73rd St.		N. of Denison Ave.	3,218	4,670	5,600	3,820	3,074	422	*	*
		S. of Denison Ave.	5,628	8,160	9,700	8,293	5,173	826	*	*
West 101st St.		N. of Lorain Ave.	1,782	2,580	3,100	2,031	1,707	265	*	*
West 130th St.		N. of Brook Park Rd.	2,002	2,900	3,500	3,492	1,652	272	34	31
West 199th St (Wooster Rd)		S. of Center Ridge Rd.	1,883	2,730	3,300	3,418	1,512	224	6	5
		N. of Lorain Rd.	2,192	3,180	3,800	3,066	1,939	187	5	4
White		E. of Chardon Rd.	191	280	330	522	123	22		
Whitney		E. of East Rd. (Berea)	81	120	140	162	64	7		
Willis St. (Bedford)		S. of Broadway	390	570	680	772	341	55	2	1
Wiltshire		E. of State Rd.	32	50	60	55	28	4		
Wilson Mills		W. of Bishop Rd.	818	1,190	1,400	1,597	640	116	10	3
		E. of Ford Rd.	911	1,320	1,600	1,986	680	118	10	3
		W. of S. O. M. Ctr. Rd.	1,068	1,550	1,800	2,390	783	105	17	12
		E. of S. O. M. Ctr. Rd.	753	1,090	1,300	1,658	559	92	12	6
		S. W. of Chagrin Falls Rd.	532	770	920	964	429	65	3	1
Woodhill		N. of Buckeye Rd.	10,718	15,540	18,500	11,063	10,448	1,436	*	*
		S. of Buckeye Rd.	12,101	17,550	20,900	12,618	11,767	1,455	*	*
Woodland Ave.		W. of East 55th St.	22,014	31,920	38,100	18,654	21,442	3,947	*	*
		E. of East 55th St.	13,803	20,010	23,900	11,704	13,673	2,701	*	*
		W. of Buckeye Rd.	17,480	25,350	30,200	15,436	17,162	2,662	*	*
		E. of Buckeye Rd.	6,804	9,870	11,800	5,791	6,734	1,308	*	*
Woodland Ave., (Larchmere)		W. of No. Morland Blvd.	5,402	7,830	9,300	4,881	5,468	915	80	99
		E. of No. Morland Blvd.	2,048	2,970	3,500	2,405	1,974	341	30	37
Woodstock		N. of Cedar Rd.	371	540	640	694	301	40	2	1
Wooster Pike.	U. S. 42	N. E. of Brook Park Rd.	9,485	13,750	16,400	13,222	8,630	1,355	105	95
	U. S. 42	S. W. of Brook Park Rd.	8,813	12,780	15,200	12,344	8,003	1,205	100	90
	U. S. 42	N. E. of Ridge Rd.	8,567	12,420	14,800	11,875	7,811	1,283	100	90
	U. S. 42	S. W. of Ridge Rd.	5,802	8,410	10,000	9,186	5,100	843	85	60
	U. S. 42	N. E. of Ridge Rd.	4,463	6,470	7,700	6,961	3,843	608	90	28
	U. S. 42	S. W. of York Rd.	3,684	5,340	6,400	5,710	3,182	533	86	24
	U. S. 42	N. E. of Settlement Rd.	3,714	5,380	6,400	6,682	2,730	431	60	30
	U. S. 42	S. W. of Settlement Rd.	4,392	6,370	7,600	10,353	3,202	464	60	32
	U. S. 42	N. E. of Pleasant Valley Rd.	4,114	5,960	7,100	9,404	3,059	571	50	33
	U. S. 42	S. W. of Pleasant Valley Rd.	4,276	6,200	7,400	9,804	3,174	581	51	33
	U. S. 42	N. E. of Fowles Rd.	3,507	5,080	6,100	7,924	2,626	529	46	24
	U. S. 42	S. W. of Fowles Rd.	3,535	5,130	6,100	8,099	2,629	536	47	25
	U. S. 42	N. of Royalton Rd.	3,515	5,100	6,100	7,728	2,658	455	35	25
	U. S. 42	S. of Royalton Rd.	3,136	4,550	5,400	6,930	2,367	407	32	21

APPENDIX

(1. Cuyahoga County—Continued)

Road	Route No.	Location of station	Average daily total traffic			Average Sunday traffic 1927	Average week-day traffic (Monday-Friday)—1927			
			1927	1932	1937		Total traffic	Truck traffic		
								Total	3-4 tons capacity	5-7½ tons capacity
Wooster Rd.....	U. S. 20	N. of Center Ridge Rd.....	3,698	5,360	6,400	6,600	2,994	511	36	25
York.....		S. of Wooster Pike.....	1,245	1,800	2,200	1,913	1,006	114	5	5
		N. of Albion Rd.....	641	930	1,100	2,141	344	43	2	1
		S. of Albion Rd.....	559	810	970	1,856	301	40	2	1
		N. of Royalton Rd.....	326	470	560	1,006	193	53	2	1
		S. of Royalton Rd.....	166	240	290	464	116	31	1	1

2. Geauga County

Road	Route No.	Location of Station	Average daily total traffic			Average Sunday traffic 1927	Average week-day traffic (Monday-Friday)—1927			
			1927	1932	1937		Total traffic	Truck traffic		
								Total	3-4 tons capacity	5-7½ tons capacity
	44	N. of U. S. Route 322.....	490	550	570	853	399	70	3	1
	44	S. of U. S. Route 322.....	126	140	150	217	103	19	1	
	44	N. of U. S. Route 422.....	100	110	120	135	86	10		
	44	S. of U. S. Route 422.....	456	510	530	949	340	58		
	87	W. of Chillicothe Road.....	1,092	1,220	1,300	2,580	783	135	12	4
	87	E. of Chillicothe Rd.....	763	860	890	1,775	550	104	9	3
	87	W. of Chardon-Auburn Ctr. Rd.....	719	800	840	1,811	497	103	9	3
	87	E. of Chardon-Auburn Ctr. Rd.....	774	870	910	1,743	565	111	10	3
	88	N. of U. S. Route 422.....	610	680	710	964	499	90	4	1
	88	S. W. of U. S. Route 422.....	270	300	320	549	199	55	2	1
	U. S. 322	W. of Chillicothe Road.....	1,070	1,200	1,300	1,828	884	137	12	4
	U. S. 322	E. of Chillicothe Road.....	1,023	1,150	1,200	1,729	840	138	12	4
	U. S. 322	W. of Route 44.....	575	640	670	975	474	101	9	3
	U. S. 322	E. of Route 44.....	627	700	730	1,036	524	134	12	4
	U. S. 422	W. of Route 44.....	2,489	2,790	2,900	4,762	1,954	187	16	5
	U. S. 422	E. of Route 44.....	2,408	2,700	2,800	4,557	1,899	198	17	5
	U. S. 422	W. of Route 88.....	2,265	2,540	2,600	4,448	1,764	187	16	5
	U. S. 422	E. of Route 88.....	2,350	2,630	2,800	4,599	1,827	161	14	4
Bainbridge-Solon.....		E. of Chagrin River Rd.....	151	170	180	336	116	27	1	
		W. of Chagrin River Rd.....	28	30	30	67	21	4		
Chagrin Falls-Bainbridge.....		N. W. of Chillicothe Rd.....	265	300	310	665	193	18	1	
		E. of Chillicothe Rd.....	111	120	130	226	97	38	2	
Chagrin River.....		N. of Bainbridge Rd.....	152	170	180	332	118	30	1	
Chardon-Auburn Ctr.....		N. of Route 87.....	189	180	180	263	130	30	1	
		S. of Route 87.....	189	210	220	265	163	34	1	
Chillicothe.....		N. of U. S. Route 322.....	832	930	970	1,464	703	105	9	3
		S. of U. S. Route 322.....	531	600	620	898	445	81	3	1
		N. of Route 87.....	524	590	610	1,259	375	59	2	1
		S. of Route 87.....	161	180	190	412	113	11		
		N. of Chagrin Falls-Bainbridge Rd.....	50	60	60	114	39	11		
		S. of Chagrin Falls-Bainbridge Rd.....	337	380	390	791	262	55	2	1
Parkman-Nelson.....		S. of Route 88.....	100	110	120	140	83	24	1	

HIGHWAY PLANNING REPORT

3. Lake County

Road	Route No.	Location of station	Average daily total traffic			Average Sunday traffic 1927	Average week-day traffic (Monday-Friday)—1927			
			1927	1932	1937		Total traffic	Truck traffic		
								Total	3-4 tons capacity	5-7½ tons capacity
	U. S. 20	S. W. of Route 91.....	7,646	9,100	10,500	13,148	6,627	753	39	27
	U. S. 20	N. E. of Route 91.....	7,923	9,430	10,900	12,882	6,886	764	42	26
	U. S. 20	S. W. of Center St. (Mentor).....	8,088	9,620	11,100	13,336	6,989	647	36	23
	U. S. 20	N. E. of Center St. (Mentor).....	9,227	10,980	12,600	15,237	7,967	725	40	25
	U. S. 20	W. of Township Park Rd.....	5,297	6,300	7,300	8,678	4,591	487	42	13
	U. S. 20	E. of Township Park Rd.....	4,736	5,640	6,500	7,764	4,102	428	37	12
	44	N. of Concord-Hambden Rd.....	961	1,140	1,300	1,574	800	63	3	1
	44	S. of Concord-Hambden Rd.....	912	1,080	1,200	1,493	758	59	2	1
	84	W. of Riverside Drive.....	2,928	3,480	4,000	4,810	2,543	287	25	8
	84	E. of Riverside Drive.....	2,521	3,000	3,500	4,147	2,189	242	21	7
	85	W. of Bishop Road.....	1,058	1,260	1,400	3,084	677	87	4	3
	85	E. of Bishop Road.....	988	1,180	1,400	3,176	585	84	4	3
	85	W. of Route 91.....	1,022	1,220	1,400	3,315	596	69	3	2
	85	E. of Route 91.....	1,283	1,530	1,700	4,160	740	83	3	2
	85	W. of Chillicothe Rd.....	921	1,100	1,300	2,368	630	72	3	1
	85	E. of Chillicothe Rd.....	827	980	1,100	2,080	575	73	3	1
	86	N. W. of Bank St. (Painesville).....	1,154	1,370	1,600	1,726	991	193	17	5
	86	S. E. of Bank St. (Painesville).....	966	1,150	1,300	1,469	826	145	13	4
	91	S. of U. S. Route 20.....	1,285	1,530	1,700	3,285	876	100	3	1
	91	N. of Route 85.....	1,499	1,780	2,100	4,056	1,015	57	2	1
	91	S. of Route 85.....	1,514	1,800	2,100	4,099	1,027	61	3	1
	175	S. W. of Vine St.....	5,142	6,120	7,000	11,054	3,905	255	13	7
	175	N. E. of Vine St.....	3,041	3,620	4,200	6,751	2,349	125	6	4
	175	S. W. of Lost Nation Rd.....	1,913	2,280	2,600	3,430	1,573	92	5	3
	175	N. E. of Lost Nation Rd.....	2,542	3,020	3,500	4,577	2,086	111	5	3
Bank St. (Painesville).....		N. E. of Route 86.....	93	110	130	148	79	10		
		S. W. of Route 86.....	320	380	440	473	275	2	1	
Bishop.....		S. of Route 85.....	709	840	970	1,907	456	57	2	2
Center St. (Mentor).....		N. of U. S. Route 20.....	1,281	1,520	1,700	2,061	1,118	144	13	4
		S. of U. S. Route 20.....	1,247	1,480	1,700	2,038	1,081	121	11	3
Chillicothe.....		N. of Willoughby-Kirtland-Chardon Rd.....	1,250	1,490	1,700	2,006	1,048	109	9	3
		S. of Willoughby-Kirtland-Chardon Rd.....	1,593	1,900	2,200	2,500	1,345	160	14	4
		N. of Route 85.....	1,074	1,280	1,500	2,831	755	73	3	1
		S. of Route 85.....	808	960	1,100	2,142	563	57	2	1
Concord-Hambden.....		E. of Route 44.....	89	110	120	145	73	6		
		W. of Route 44.....	14	20	20	21	12	2		
French.....		N. of Route 85.....	912	1,080	1,200	2,259	616	83	3	3
Lloyd.....		N. W. of St. Clair Ave.....	1,320	1,570	1,800	2,314	1,077	147	13	10
		S. E. of St. Clair Ave.....	1,462	1,740	2,000	2,451	1,230	207	18	14
Lost Nation.....		S. of Route 175.....	1,648	1,960	2,300	2,936	1,359	101	5	3
Riverside Drive (Painesville).....		S. of Route 84.....	481	570	660	785	418	52	2	1
St. Clair Ave.....		W. of Lloyd Rd.....	447	530	610	808	368	107	9	7
		E. of Lloyd Rd.....	297	350	410	413	254	34	1	2
Township Park (Painesville).....		N. of U. S. Route 20.....	832	990	1,100	1,361	720	78	3	1
Vine St.....		E. of Route 175.....	2,429	2,890	3,300	4,786	2,043	160	8	5
Willoughby - Kirtland-Chardon.....		N. W. of Chillicothe Rd.....	1,120	1,330	1,500	1,746	947	119	10	3
		S. E. of Chillicothe Rd.....	294	350	400	454	249	34	1	

APPENDIX

4. Lorain County

Road	Route No.	Location of station	Average daily total traffic			Average Sunday traffic 1927	Average week-day traffic (Monday-Friday)—1927			
			1927	1932	1937		Total traffic	Truck traffic		
								Total	3-4 tons capacity	5-7½ tons capacity
	2	E. of Lakebreeze Rd.	2,718	3,780	4,300	5,096	2,156	266	10	11
	2	W. of Lakebreeze Rd.	2,661	3,700	4,200	5,126	2,090	271	10	11
	U. S. 20	E. of Belden-Avon Rd.	4,649	6,460	7,300	6,663	4,056	583	38	14
	U. S. 20	W. of Belden-Avon Rd.	4,733	6,580	7,500	6,809	4,097	600	40	19
	U. S. 20	N. of Lagrange Rd.	4,786	6,650	7,600	7,001	4,109	491	60	14
	U. S. 20	S. W. of Lagrange Rd.	3,888	5,400	6,100	5,665	3,345	425	50	12
	57	N. of North Ridge Rd.	3,257	4,530	5,200	5,659	2,640	276	18	3
	57	S. E. of North Ridge Rd.	2,457	3,420	3,900	4,280	1,989	204	13	2
	57	N. W. of Elyria Ave.	2,065	2,870	3,300	3,649	1,664	152	10	2
	57	S. E. of Elyria Ave.	3,683	5,120	5,800	4,990	3,209	327	24	4
	57	N. W. of Indian Hollow Rd.	2,136	2,970	3,400	3,170	1,814	139	11	3
	57	S. E. of Indian Hollow Rd.	1,718	2,390	2,700	2,538	1,462	118	10	3
	57	N. of Belden-Lagrange Rd.	586	820	930	1,194	482	76	3	1
	57	E. of Belden-Avon Rd.	387	540	610	779	321	52	2	.....
	59	W. of Leavitt Rd.	1,098	1,530	1,700	1,423	976	154	7	2
	82	E. of Route 252.	945	1,310	1,500	1,224	841	134	5	2
	82	W. of Route 252.	488	680	770	841	430	75	3	1
	82	E. of Belden-Avon Rd.	523	730	830	920	456	68	3	1
	82	W. of Belden-Avon Rd.	460	640	730	710	419	70	3	1
	82	N. of Route 82.	479	670	760	744	436	70	3	1
	252	S. of Route 82.	140	200	220	236	124	21	1	.....
	252	E. of French Creek Rd.	165	230	260	279	147	29	1	.....
	254	S. W. of French Creek Rd.	1,851	2,570	2,900	3,324	1,540	274	11	4
	254	N. of Walker Rd.	992	1,380	1,600	1,822	822	138	6	1
Belden-Avon.....		S. of Walker Rd.	384	530	610	485	347	81	1	1
		N. of U. S. Route 20.	416	580	660	539	377	90	1	1
		S. of U. S. Route 20.	497	690	780	678	468	113	2	2
		N. of Route 82.	541	750	860	826	493	98	5	3
		S. of Route 82.	168	230	270	255	156	29	1	.....
		S. of Route 57.	169	240	270	246	157	37	1	.....
Belden-Lagrange.....		S. of Route 57.	419	580	660	794	358	76	3	1
Broadway.....		W. of Belden-Avon Rd.	161	220	250	269	146	46	2	.....
Butternut Ridge.....		S. of North Ridge Rd.	329	460	520	557	270	39	.....	.....
		N. E. of Root Road.	957	1,330	1,500	1,497	865	141	12	5
		S. W. of Root Road.	740	1,030	1,200	1,153	669	112	10	4
Elyria Ave.....		N. of Route 57.	1,885	2,620	3,000	2,375	1,674	212	14	2
French Creek.....		W. of Route 254.	1,034	1,440	1,600	1,833	856	150	5	2
Indian Hollow.....		S. of Route 57.	425	590	670	637	359	25	1	.....
Lagrange.....		S. of U. S. Route 20.	1,085	1,510	1,700	1,604	925	87	10	2
Lakebreeze.....		S. of Route 2 (Sheffield).	282	390	450	346	253	38	.....	.....
Leavitt.....		N. of Route 59.	700	970	1,100	944	610	64	3	1
		S. of Route 59.	483	670	760	643	425	54	2	1
North Ridge.....		S. W. of Route 57.	1,781	2,480	2,800	3,098	1,444	129	5	1
Root.....		N. W. of Butternut Ridge Rd.	449	620	710	702	407	61	3	1
		S. E. of Butternut Ridge Rd.	234	320	370	350	216	48	2	1
Walker.....		E. of Belden-Avon Rd.	150	210	240	175	132	26	.....	.....
		W. of Belden-Avon Rd.	81	110	130	92	75	26	.....	.....

HIGHWAY PLANNING REPORT

5. Medina County

Road	Route No.	Location of station	Average daily total traffic			Average Sunday traffic 1927	Average week-day traffic (Monday-Friday)—1927			
			1927	1932	1937		Total traffic	Truck traffic		
								Total	3-4 tons capacity	5-7½ tons capacity
	3	N. of Belden-Hudson Rd. . .	354	390	400	319	350	82	3	1
	3-94	S. of Belden-Hudson Rd. . .	397	440	450	807	316	69	3	1
	3	N. of Center Medina Co. Rd. .	368	400	420	791	281	39	2	.....
	3	S. of Center Medina Co. Rd. .	317	350	360	682	247	37	2	.....
	3	S. of U. S. Route 42.	3,330	3,660	3,800	7,094	2,555	343	30	9
	3	N. of Chippewa Lake Rd. . . .	1,944	2,140	2,200	4,131	1,495	208	18	6
	3	S. of Chippewa Lake Rd. . . .	1,714	1,880	1,900	3,667	1,327	185	16	5
	18	E. of Route 94.	1,685	1,850	1,900	3,171	1,332	144	13	4
	18	W. of Route 94.	1,607	1,770	1,800	3,013	1,268	139	12	4
	18-57	S. E. of Route 253.	1,403	1,540	1,600	2,688	1,109	110	10	3
	18	W. of Jct. with Rt. 253.	1,475	1,620	1,700	2,828	1,169	112	10	3
	U. S. 42	N. of Belden-Hudson Rd. . . .	2,746	3,020	3,100	6,061	2,078	348	30	15
	U. S. 42	S. of Belden-Hudson Rd. . . .	2,713	2,980	3,100	5,626	2,122	357	31	15
	U. S. 42-3	N. of Route 57.	4,490	4,940	5,100	9,673	3,429	411	36	11
	U. S. 42	S. W. of Route 3.	1,984	2,180	2,200	4,272	1,516	183	16	5
	57	W. of Route 252.	73	80	80	143	60	10	.....	.....
	57	S. of Speith Rd.	117	130	130	220	97	18	.....	.....
	57	S. E. of U. S. Route 42.	951	1,050	1,100	2,010	733	106	9	3
	94	E. of Jct. with Rt. 3.	494	540	560	935	407	94	4	1
	94	N. of Route 18.	440	480	500	914	351	64	3	1
	94	S. of Route 18.	444	490	500	938	355	61	3	1
	252	N. of Abbeyville-Valley City Road.	115	130	130	212	95	14	1	.....
	252	S. of Abbeyville-Valley City Road.	41	40	50	81	34	6	.....	.....
	252	N. of Speith Rd.	62	70	70	116	52	12	1	.....
	253	E. of Route 18.	120	130	140	231	110	12	1	.....
Abbeyville-Valley City.		S. E. of Route 252.	85	90	100	154	72	12	1	.....
Belden-Hudson.		W. of Station Rd.	258	280	290	492	215	48	2	.....
		E. of Station Rd.	336	370	380	639	277	58	2	1
		W. of U. S. Route 42.	569	630	640	1,053	466	111	5	1
		E. of U. S. Route 42.	367	400	420	603	311	76	3	1
		W. of Route 3.	308	340	350	655	241	55	2	1
Boston.		E. of Bennett Rd.	99	110	110	197	80	16	1	.....
		W. of Bennett Rd.	14	20	20	28	11	2	.....	.....
Center Medina Co.		W. of Route 3.	98	110	110	199	74	12	1	.....
Chippewa Lake.		W. of Route 3.	567	620	640	1,235	433	55	2	1
Hunt.		S. of Bennett Rd.	311	340	350	617	247	48	2	1
Speith.		E. of Route 57.	60	70	70	114	49	7	.....	.....
Station.		N. of Belden-Hudson Rd. . . .	75	80	80	147	62	12	1	.....
		S. of Belden-Hudson Rd. . . .	95	100	110	183	80	18	1	.....

6. Portage County

Road	Route No.	Location of station	Average daily total traffic			Average Sunday traffic 1927	Average week-day traffic (Monday-Friday)—1927			
			1927	1932	1937		Total traffic	Truck traffic		
								Total	3-4 tons capacity	5-7½ tons capacity
	14	S. E. of Route 36.	824	1,020	1,100	1,389	699	85	4	1
	18	E. of Route 44.	1,795	2,230	2,500	3,506	1,393	190	17	5
	18	W. of Route 44.	2,273	2,820	3,100	4,813	1,698	169	15	5
	36	N. E. of Riddle Rd.	1,617	2,000	2,200	3,142	1,294	103	9	3
	36-14	W. of Riddle Rd.	2,358	2,920	3,300	4,223	1,952	196	17	5
	36	E. of Brady Lake Rd.	2,427	3,010	3,300	4,364	2,007	210	18	6
	36	W. of Brady Lake Rd.	2,403	2,980	3,300	4,089	2,024	211	18	6
	43	N. W. of Route 82.	1,488	1,840	2,100	3,907	1,028	167	15	5
	43	S. of Route 82.	684	850	940	1,812	474	76	3	1
	43	N. of Kent-Mantua Rd.	1,061	1,320	1,500	1,544	945	148	13	4
	43	S. of Kent-Mantua Rd.	1,493	1,850	2,100	2,225	1,354	204	18	6
	44	N. of Route 82.	679	840	940	1,453	498	63	3	1
	44	S. of Route 82.	1,269	1,570	1,700	2,770	961	138	12	4
	44	N. of Route 18.	2,040	2,530	2,800	3,346	1,731	185	16	5
	44	S. of Route 18.	1,597	1,980	2,200	3,117	1,274	167	15	5
	44	E. of Route 44.	773	960	1,100	1,665	599	108	9	3
	82	W. of Route 44.	1,047	1,300	1,400	2,280	797	121	11	3
	82	E. of Route 43.	982	1,220	1,400	2,473	679	135	12	4
	82	W. of Route 43.	7	10	10	8	6	1	.....	.....
Brady Lake Entrance.		S. of Kent-Ravenna Co. Rd. . .	180	220	250	322	150	14	1	.....
Brady Lake Road.		N. of Route 36.	270	340	370	519	218	10	.....	.....
Kent-Mantua Rd.		N. E. of Route 43.	437	540	600	682	415	62	3	1
Kent-Ravenna Co. Rd.		E. of Brady Lake Entrance. . .	1,362	1,690	1,900	2,067	1,186	109	9	3
		W. of Brady Lake Entrance. . .	1,474	1,830	2,000	2,245	1,280	113	10	3
Riddle.		E. of Route 14.	104	130	140	134	94	10	.....	.....

APPENDIX

7. Summit County

Road	Route No.	Location of station	Average daily total traffic			Average Sunday traffic 1927	Average week-day traffic (Monday-Friday)—1927			
			1927	1932	1937		Total traffic	Truck traffic		
								Total	3-4 tons capacity	5-7½ tons capacity
	8	S. of Sagamore Rd.	3,828	5,550	6,600	7,474	3,150	324	26	16
	8	N. of Route 82	3,494	5,170	6,500	6,304	2,964	332	29	11
	8	S. E. of Route 82	3,237	4,790	6,000	5,823	2,736	278	24	9
	8	N. of Belden-Hudson Rd.	3,081	4,560	5,700	6,006	2,539	280	29	9
	8	S. of Belden-Hudson Rd.	3,354	4,960	6,200	6,563	2,756	297	32	11
	8	N. of Kelso Rd.	4,687	6,940	8,700	9,297	3,836	445	35	12
	8	S. of Kelso Rd.	4,789	7,090	8,900	9,496	3,922	459	40	12
	8	N. W. of Stow Corners-Springfield Rd.	5,759	8,520	10,700	7,393	5,303	612	53	17
	8	S. E. of Stow Corners-Springfield Rd.	7,218	10,680	13,400	9,315	6,640	746	65	20
	14	S. E. of Laing Rd.	1,847	2,680	3,200	3,292	1,528	146	11	6
	14	N. W. of Route 91	2,279	3,370	4,200	4,005	1,898	223	19	6
	14-82	E. of Route 91	587	870	1,100	788	532	108	9	3
	17	E. of South Main St.	2,465	3,650	4,600	3,125	2,223	251	22	7
	17	W. of South Main St.	4,760	7,040	8,800	6,184	4,365	408	35	11
	18	W. of U. S. Route 21	2,048	3,030	3,800	4,073	1,756	234	20	6
	18	E. of U. S. Route 21	2,278	3,370	4,200	4,366	1,980	233	20	6
	18	W. of Route 92	2,469	3,650	4,600	4,417	1,998	238	21	6
	18	E. of Route 92	4,860	7,190	9,000	8,192	4,020	494	43	13
	18	S. W. of Cuyahoga Falls-Brittain Rd.	1,679	2,480	3,100	1,983	1,511	139	12	4
	18	N. E. of Cuyahoga Falls-Brittain Rd.	2,583	3,820	4,800	3,253	2,278	212	18	6
	18	W. of Mogadore-Monroe Falls Rd.	3,074	4,550	5,700	3,868	2,714	260	23	7
	18	E. of Mogadore-Monroe Falls Rd.	2,872	4,250	5,300	3,604	2,526	239	21	6
	U. S. 21	N. of Route 176	1,153	1,710	2,100	2,351	866	104	7	4
	U. S. 21	S. of Route 176	2,634	3,900	4,900	6,042	1,971	179	22	4
	U. S. 21	N. of Route 18	1,178	1,740	2,200	2,432	905	84	4	1
	U. S. 21	S. of Route 18	1,717	2,540	3,200	3,681	1,296	132	11	4
	36	E. of Route 91	4,233	6,260	7,800	8,213	3,407	404	35	11
	36	W. of Route 91	5,432	8,040	10,000	10,656	4,321	416	36	11
	82	W. of Route 91	260	380	480	418	226	56	2	1
	82	E. of Route 8	836	1,240	1,500	1,408	675	96	4	2
	82	W. of Route 8	619	920	1,100	1,046	500	66	3	1
	91	N. of Route 82	1,011	1,500	1,900	2,008	801	70	3	1
	91	S. of Route 82	2,550	3,770	4,700	4,961	2,039	203	18	5
	91	N. of Route 36	3,480	5,150	6,400	6,794	2,805	296	26	8
	92	N. of Route 18	2,463	3,640	4,600	3,896	2,082	281	24	8
	176	N. W. of U. S. Route 21	1,656	2,450	3,100	3,826	1,233	113	16	1
Belden-Hudson		E. of Route 8	872	1,290	1,600	2,135	645	71	4	6
		W. of Route 8	627	930	1,200	1,295	504	52	2	1
Cuyahoga Falls-Brimfield		E. of Cuyahoga Falls-Brittain Rd.	44	60	80	43	42	8		
		W. of Cuyahoga Falls-Brittain Rd.	11	20	20	7	7	1		
Cuyahoga Falls-Brittain		N. of Cuyahoga Falls-Brimfield Rd.	65	100	120	68	62	5		
		S. of Cuyahoga Falls-Brimfield Rd.	183	270	340	182	172	20	1	
		N. of Route 18	591	880	1,100	600	556	50	2	
		S. of Route 18	893	1,320	1,700	885	844	71	3	1
Cuyahoga Falls-Mogadore		N. W. of Cuyahoga Falls-Brittain Rd.	1,974	2,920	3,700	2,628	1,795	126	11	3
		S. E. of Cuyahoga Falls-Brittain Rd.	1,715	2,540	3,200	2,258	1,154	120	10	3
E. Akron-Brimfield		E. of Stow Corners-Springfield Rd.	157	230	290	204	143	12	1	
		W. of Stow Corners-Springfield Rd.	2,135	3,160	4,000	2,772	1,908	158	14	4
Hudson-Cleveland		S. of Cuyahoga Co. Line	143	210	250	388	97	9		
Kelso		E. of Route 8	152	220	280	298	125	17	1	
Mogadore-Monroe Falls		N. of Route 18	225	330	420	222	214	32	1	
		S. of Route 18	63	90	120	58	55	6		
Northfield-Brandywine		S. of Route 82	282	420	520	477	229	30	1	
Old Forge-Brimfield		E. of Route 18	59	90	110	27	61	6		
		W. of Route 18	1,805	2,670	3,300	1,862	1,707	214	19	6
South Main St.		N. of Route 17	8,209	12,150	15,200	10,728	7,443	563	49	15
		S. of Route 17	5,217	7,720	9,700	6,763	4,642	279	24	8
Stow Corners-Springfield		S. of Route 36	2,693	3,990	5,000	5,118	2,163	279	24	8
		N. of E. Akron-Brimfield Rd.	3,193	4,730	5,900	4,192	2,867	231	20	7
Stow Corners-Springfield		S. of E. Akron-Brimfield Rd.	3,217	4,760	6,000	4,221	2,905	256	22	7
Wayne Avenue		N. of Route 8	2,038	3,020	3,800	2,646	1,858	202	18	5
		E. of Stow Corners-Springfield Rd.	84	120	160	111	77	7		

APPENDIX II

Origin and Destination of Traffic Recorded on Euclid Avenue at Chardon Road
(Average Week-day Passenger Car Traffic)

Section	Cleveland Section 18	Euclid Vil.	Richmond Hgts. Vil.	Lake County	North Geauga County	Counties East of Lake County	Counties S. E. of Reg. Area	States East of Ohio	States South of Ohio	Total
Cleveland Section 1 ¹		265		764	100	113	4	252	9	1,507
Cleveland Section 2		17		48	9			9		83
Cleveland Section 3		39		82	13	9				143
Cleveland Section 4		139	9	235	52	34		26		495
Cleveland Section 5		31		22	13			4		70
Cleveland Section 6		13		4						17
Cleveland Section 7		44		61	30	13				148
Cleveland Section 8		56	4	96	22	13		9		200
Cleveland Section 9		91	4	227	26	22	4	13		387
Cleveland Section 10		30		35	9			9		83
Cleveland Section 11		57		61	13	13				144
Cleveland Section 12		126	9	161	34	9		9		348
Cleveland Section 13		52		82	13	9		4		160
Cleveland Section 14		179		313	39	4		9		544
Cleveland Section 15		44		18	4			4		70
Cleveland Section 16				22	4					26
Cleveland Section 17		13		9		4				26
Cleveland Section 18		525		356	144	22		4		1,051
Cleveland Section 19		17		18	9					44
Cleveland Section 20		13		13						26
Cleveland Section 21		5		22		4				31
Cleveland Section 22		35		65	13	4		13		130
Cleveland Section 23		22		35	4	9				70
Cleveland Section 24		17		18		4				39
Cleveland Heights 25		65		96	17	9		9		196
Cleveland Heights 26		169		178	13	26		22		408
Bay Village				4						4
Beachwood Village		9								9
Bedford Village		4		9						13
Berea Village		4								4
Bratenahl Village		4		5						9
Chagrin Falls Village		4								4
Chagrin Falls Twp.		4								4
Dover Village		4								4
East Cleveland, City of		287								4
Euclid Village		313		491	79	26		13		896
Fairview Village				4						4
Garfield Hgts. Vil.		13		9		4				26
Gates Mills Vil.	5	8								13
Highland Hgts. Vil.	4									4
Hunting Valley Vil.				4						4
Independence Vil.		4								4
Lakewood, City of		47		61	9	9		4		130
Lyndhurst Vil.	9	22								31
Maple Hgts. Vil.	4			13				5		22
Mayfield Vil.	9	4								13
Mayfield Hgts. Vil.	5	4								9
North Randall Vil.				4						4
Parma Vil.		5		4						9
Richmond Hgts. Vil.	4	17	5							26
Rocky River Vil.		13	4	13						30
Shaker Hgts. Vil.		39	9	43				13		104
South Euclid Vil.		13		9	4	4				30
University Hgts. Vil.		13		9						22
Warrensville Hgts. Vil.	4	5								9
Warrensville Twp.				9						9
Geauga County—South	4									4
Portage County (Akron & Vicinity)	5									5
Summit County				13		8		9		30
Medina County		9		17		4		5		35
Lorain County—North		4		18						22
Lorain County—South		5		9	4	4		4	9	35
Counties S. E. of Reg. Area		5								5
Counties S. W. of Reg. Area		5		18		4		44		71
Counties W. of Reg. Area				13		13		52		78
States West of Ohio				17		13		222		252
Total	53	2,932	44	3,837	677	410	8	767	18	8,746

¹ For description of Cleveland and Cleveland Heights Sections, see App. Fig. 1.

APPENDIX III

Comparison of Population and the Number of Motor Vehicles in the Counties of the Cleveland Regional Area 1. Cuyahoga County

Year	Registration of motor vehicles		Population	Persons per car	
	Actual	Estimated		Actual	Estimated
1920.....	92,678	86,140	943,495	10.18	10.95
1921.....	109,154	109,320	985,000	9.02	9.01
1922.....	129,672	134,500	1,024,000	7.90	7.61
1923.....	164,334	161,100	1,065,000	6.48	6.61
1924.....	197,106	188,500	1,104,650	5.60	5.86
1925.....	216,474	216,100	1,135,750	5.25	5.26
1926.....	242,714	243,380	1,171,950	4.83	4.82
1927.....	262,973 ¹	269,940	1,213,975	4.78	4.50
1932.....	.....	382,180	1,453,700	.....	3.80
1937.....	.....	454,570	1,716,900	.....	3.78

2. Geauga County

Year	Registration of motor vehicles		Population	Persons per car	
	Actual	Estimated		Actual	Estimated
1920.....	1,589	1,473	15,036	9.46	10.21
1921.....	1,897	1,979	15,088	7.95	7.62
1922.....	2,515	2,528	15,138	6.02	5.99
1923.....	3,265	3,096	15,190	4.65	4.91
1924.....	3,921	3,663	15,240	3.89	4.16
1925.....	4,131	4,211	15,290	3.70	3.63
1926.....	4,586	4,727	15,335	3.34	3.24
1927.....	5,076 ¹	5,202	15,375	3.03	2.96
1932.....	.....	5,550	15,570	.....	2.81
1937.....	.....	5,930	15,720	.....	2.65

3. Lake County

Year	Registration of motor vehicles		Population	Persons per car	
	Actual	Estimated		Actual	Estimated
1920.....	3,663	3,302	28,667	7.83	8.68
1921.....	5,040	4,752	29,510	5.86	6.21
1922.....	6,022	6,328	30,378	5.04	4.80
1923.....	7,823	7,928	31,272	4.00	3.94
1924.....	9,860	9,465	32,192	3.26	3.40
1925.....	10,922	10,880	33,139	3.03	3.05
1926.....	11,998	12,140	34,114	2.84	2.81
1927.....	12,879 ¹	13,240	35,118	2.73	2.65
1932.....	.....	15,260	40,439	.....	2.65
1937.....	.....	17,680	46,931	.....	2.65

4. Lorain County

Year	Registration of motor vehicles		Population	Persons per car	
	Actual	Estimated		Actual	Estimated
1920.....	8,895	8,031	90,612	10.19	11.28
1921.....	10,588	10,492	92,500	8.74	8.82
1922.....	12,548	13,151	94,250	7.51	7.17
1923.....	16,133	15,916	96,250	5.97	6.05
1924.....	19,572	18,700	98,250	5.02	5.25
1925.....	21,587	21,429	100,125	4.64	4.67
1926.....	24,065	24,040	102,125	4.24	4.25
1927.....	25,718 ¹	26,493	104,000	4.04	3.93
1932.....	35,809	114,750	3.20
1937.....	40,761	128,250	3.15

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5. Medina County

Year	Registration of motor vehicles		Population	Persons per car	
	Actual	Estimated		Actual	Estimated
1920.....	3,725	3,664	26,067	7.00	7.11
1921.....	5,019	4,899	26,150	5.21	5.34
1922.....	5,908	6,062	26,250	4.44	4.33
1923.....	6,967	7,087	26,360	3.78	3.72
1924.....	8,039	7,948	26,480	3.29	3.33
1925.....	8,489	8,645	26,600	3.13	3.08
1926.....	9,367	9,195	26,740	2.85	2.91
1927.....	9,686 ¹	9,621	26,900	2.78	2.80
1932.....	.....	10,617	28,100	.....	2.65
1937.....	.....	10,836	28,640	.....	2.64

6. Portage County

Year	Registration of motor vehicles		Population	Persons per car	
	Actual	Estimated		Actual	Estimated
1920.....	4,501	4,019	36,269	8.06	9.02
1921.....	5,427	5,308	36,900	6.80	6.95
1922.....	6,501	6,647	37,480	5.77	5.64
1923.....	7,883	7,974	38,050	4.83	4.77
1924.....	9,250	9,238	38,650	4.18	4.18
1925.....	10,234	10,405	39,225	3.83	3.77
1926.....	11,851	11,460	39,800	3.36	3.47
1927.....	12,294 ¹	12,380	40,200	3.27	3.25
1932.....	.....	15,350	43,500	.....	2.83
1937.....	.....	16,940	45,660	.....	2.70

7. Summit County

Year	Registration of motor vehicles		Population	Persons per car	
	Actual	Estimated		Actual	Estimated
1920.....	29,959	28,900	286,065	9.55	9.90
1921.....	30,499	35,000	292,000	9.57	8.34
1922.....	34,855	41,600	298,800	8.57	7.18
1923.....	45,355	48,500	305,600	6.74	6.30
1924.....	54,768	55,400	313,000	5.72	5.65
1925.....	62,816	62,900	320,800	5.11	5.10
1926.....	72,961	70,600	328,200	4.50	4.65
1927.....	79,002 ¹	78,400	336,500	4.26	4.29
1932.....	.....	117,000	387,000	.....	3.31
1937.....	.....	146,000	453,000	.....	3.10

¹Estimated on basis of registrations during first eight months of year. Final registration figures show registrations as follows: Cuyahoga 258,722, Geauga 4,864, Lake 12,897, Lorain 25,500, Medina 9,812, Portage 12,393 and Summit 79,172. The estimated figures were used in predicting future traffic and are in such close agreement with the final figures that no revision is considered necessary.

APPENDIX IV

Detailed Description of the Plan of Highway Improvement in the Regional Area City of Cleveland

Road	From	To	Miles	Plan of Improvement		
				Width (feet)	Type of construction ¹	Period of construction ²
New Routes:						
Brook Park Rd. extension.....	Cleveland city line.....	Cleveland city line.....	0.5	40	A	1
Independence Rd.....	Broadway.....	do.....	2.0	40	A	1
Lake Front Blvd. ³	Main Ave.....	do.....	12.1	40	A	1
Shaker Blvd.....	Pittsburgh Ave.....	Woodhill Rd.....	2.8	40	A	1
Valley—Independence connection....	Independence Rd.....	State Road.....	2.4	40	A	1
Walworth Rd.—Train Ave.....	Scranton Rd.....	W. 61st St. & Clark Ave.....	2.4	40	A	1
W. 14th St. & Jennings Rd.....	W. 14th St.....	Cleveland city line.....	2.3	20	A	1
Total.....			24.5			

¹ A Major type; B. Medium type; C. Minor type.
² 1. Improvement during first 5 years; 2. Improvement during second 5 years.
³ Includes section in the village of Bratenah

Northeast section of Cuyahoga County

New Routes:						
Belvoir Blvd.....	Bluestone Rd.....	Euclid Ave.....	2.0	40	A	1
Lake Front Blvd.—St. Clair Ave. connection.....	City line.....	Bliss Rd.....	0.2	40	A	1
Mayfield Rd.—Superior Ave. connection.....	Mayfield Rd.....	Superior Ave.....	1.8	40	A	1
Belvoir Blvd.—Ivanhoe Rd. connection.....	Belvoir Blvd.....	Euclid Ave.....	1.6	20	A	1
Green Rd. Relocation.....	do.....	Green Rd.....	0.4	20	A	1
Richmond Rd. Extension.....	Richmond Rd.....	Euclid Ave.....	0.8	20	A	1
Total.....			6.8			
Widening:						
Euclid Ave.....	City line.....	County line.....	3.8	56	A	1
Noble Rd.....	Mayfield Rd.....	East Cleveland line.....	1.7	50	A	1
Lee Rd.....	Euclid Ave.....	End of section.....	0.2	40	A	1
Total.....			5.7			
Reconstruction and Widening:						
Coventry Rd.....	End of section.....	Mayfield Rd.....	0.2	40	A	1
Lee Rd.....	do.....	End of section.....	0.2	40	A	1
Green Rd.....	Top of hill.....	Mayfield Rd.....	2.9	20	A	1
Richmond Rd.....	Chardon Rd.....	Cedar Rd.....	5.1	20	A	1
S. O. M. Center Rd.....	County line.....	Mayfield Rd.....	3.4	20	A	1
Total.....			11.8			
New Construction:						
Lee Rd.....	East Cleveland line.....	Mayfield Rd.....	0.5	40	A	1
St. Clair Ave.....	Bliss Rd.....	County line.....	2.6	40	A	1
Green Rd.....	Mayfield Rd.....	Cedar Rd.....	1.3	20	A	1
Highland Rd.....	Euclid Ave.....	End of section.....	0.6	20	A	1
Total.....			5.0			
Grand total.....			29.3			

East-central section of Cuyahoga County

New Routes:						
Brook Park Rd. extension.....	Cleveland city line.....	Lee Rd.....	1.0	40	A	1
Emery Rd.....	Northfield Rd. extension.....	Miles Ave.....	1.0	40	A	1
Northfield Rd. extension.....	McCracken Rd.....	Emery Rd.....	1.2	40	A	1
Chagrin Falls Blvd.....	Gates Mills Blvd.....	Kinsman Rd.....	1.5	40	A	1
So. Moreland Blvd. extension.....	Kinsman Rd.....	Chagrin Falls Blvd.....	1.3	40	A	1
Brook Park Rd. extension.....	Lee Rd.....	McCracken Rd.....	1.9	20	A	1
N. Miles Rd. relocation.....	Northfield Rd. extension.....	Green Rd.....	0.9	20	A	1
So. Moreland Blvd. extension.....	Kinsman Rd.....	County line.....	5.7	20	A	1
Total.....			14.5			
Widening:						
Cedar Rd.....	Lee Rd.....	Warrensville Center Rd.....	1.5	40	A	1
Kinsman Rd.....	East city line.....	East line of Shaker Heights.....	2.0	40	A	1
Lee Rd.....	North of Monmouth Rd.....	South line of Shaker Heights.....	2.7	40	A	1
Lee Rd.....	Superior Rd.....	Mayfield Rd.....	1.5	40	A	1
Lee Rd.....	Miles Ave.....	McCracken Rd.....	1.1	40	A	1
Warrensville Center Rd.....	South line of Shaker Heights.....	Miles Ave.....	2.2	40	A	1
Cedar Rd.....	Warrensville Center Rd.....	Richmond Rd.....	2.0	40	A	2
Total.....			12.0			

HIGHWAY PLANNING REPORT

East-central section of Cuyahoga County—Continued

Road	From	To	Miles	Plan of improvement		
				Width (feet)	Type of construction	Period of construction
Reconstruction and Widening:						
Kinsman Rd.	East line of Shaker Heights....	So. Moreland Blvd. extension.	2.1	40	A	1
Green Rd.	Cedar Rd.	N. Woodland Rd.	1.0	20	A	1
Kinsman Rd.	So. Moreland Blvd. extension.	End of section	4.2	20	A	1
Richmond Rd.	Cedar Rd.	N. Woodland Rd.	1.0	20	A	1
S. Kinsman Rd.	Kinsman Rd.	West line of Chagrin Falls....	3.8	20	A	1
N. Woodland Rd.	S. O. M. Center Rd.	State Route 174.	1.9	20	B	2
Total			14.0			
New Construction:						
State Route 87	Kinsman Rd.	County line	0.7	20	B	1
Total			0.7			
Grand total			41.2			

Southeast section of Cuyahoga County

New Routes:						
Brook Park Rd. extension ¹	Cuyahoga Heights line.	Cleveland city line.	1.7	40	A	1
Northfield Rd. extension.	Northfield Rd.	McCracken Rd.	3.2	40	A	1
Warner Rd. relocation.	Warner Rd.	Brook Park Rd. extension.	0.3	40	A	1
Richmond Rd.	N. Miles Rd.	S. Miles Rd.	1.0	20	A	1
So. Miles Rd. relocation.	McCracken Rd.	Laing Rd.	2.7	20	A	1
Total			8.9			
Widening:						
Northfield Rd.	Broadway	Forbes Rd.	1.2	40	A	1
Lee Rd.	McCracken Rd.	Broadway	0.8	40	A	1
S. O. M. Center Rd.	So. Miles Rd.	County line.	2.7	20	A	2
Dunham Rd.	Schreiber Rd.	East line of Valley View.	1.4	20	B	2
Total			6.1			
Reconstruction and Widening:						
Dunham Rd.	Granger Rd.	Schreiber Rd.	1.7	20	A	1
Turney Rd.	Rockside Rd.	Dunham Rd.	1.3	20	B	1
Total			3.0			
New Construction:						
Broadway	City line	McCracken Rd.	2.0	48	A	1
Warner Rd.	City line	Warner Rd. relocation.	0.3	40	A	1
Union St.	Northfield Rd.	Broadway	0.5	20	A	1
Warner Rd.	Brook Park Rd. extension.	Canal Rd.	0.5	20	A	1
Bainbridge Rd.	So. Miles Rd.	County line.	2.4	20	B	1
Egypt Rd.	Dunham Rd.	County line.	1.9	20	B	1
Solon Rd.	Broadway	So. Miles Rd.	4.7	20	B	2
Total			12.3			
Grand total			30.3			

¹ Exclusive of section of Garfield Boulevard used by new route.

East-south-central section of Cuyahoga County

New Routes:						
Brecksville Rd. relocation.	Rockside Rd.	Willow Circle.	1.6	40	A	1
Brook Park Rd. extension.	Brook Park Rd.	Willow Circle.	2.4	40	A	1
Brook Park Rd. extension.	Willow Circle.	Garfield Heights line.	0.5	40	A	1
Independence Rd.	E. 49th St.	Willow Circle.	0.9	40	A	1
Valley—Independence connection.	City line	City line	0.5	40	A	1
W. 14th St. & Jennings Rd.	Cleveland city line.	Schaaf Rd.	1.0	20	A	1
Total			6.9			
Widening:						
Brook Park Rd.	Brooklyn Heights line.	Schaaf Rd.	0.4	40	A	1
Pleasant Valley Rd.	Broadview Rd.	Brecksville Rd.	2.5	20	A	2
Dunham Rd.	Canal Rd.	Valley View line.	1.4	20	B	2
Total			4.3			
Reconstruction and Widening:						
E. 49th St.	Cleveland city line.	Independence Rd. relocation.	1.9	40	A	1
Schaaf Rd.	Broadview Rd.	Brook Park Rd.	1.3	40	A	1
Brecksville Rd.	Rockside Rd.	Canal Rd.	1.6	20	A	1
Canal Rd.	Fitzwater Rd.	Willow Circle.	5.5	20	A	1
Schaaf Rd.	Brook Park Rd.	East line of Brooklyn Heights.	1.4	20	A	1
Station Rd.	Brecksville Rd.	Cuyahoga River.	2.5	20	A	1
Total			14.2			

APPENDIX

East-south-central section of Cuyahoga County—Continued

Road	From	To	Miles	Plan of Improvement		
				Width (feet)	Type of construction	Period of construction
New Construction Schaaf Rd.....	East line of Brooklyn Heights..	Brecksville Rd.....	0.6	20	A	1
Total.....			0.6			
Grand total.....			26.0			

West-south-central section of Cuyahoga County

Widening:						
Brook Park Rd.....	Broadview Rd.....	Brooklyn Heights line.....	0.5	40	A	1
Ridge Rd. and W. 73d St.....	Cleveland city line.....	Brook Park Rd.....	2.1	40	A	1
Wooster Pike.....	Ridge Rd.....	York Rd.....	1.9	40	A	1
Linndale Rd.....	W. 73d St.....	Cleveland city line.....	1.7	20	A	1
Pleasant Valley Rd.....	Settlement Rd.....	Broadview Rd.....	5.2	20	A	2
Total.....			11.4			
Reconstruction and Widening:						
Broadview Rd.....	Schaaf Rd.....	Short Rd.....	2.7	40	A	1
Brook Park Rd.....	West line of Parma.....	Broadview Rd.....	4.6	40	A	1
Broadview Rd.....	Short Rd.....	Wallings Rd.....	3.2	20	A	1
Ridge Rd.....	Ridgewood Drive.....	Pleasant Valley Rd.....	1.3	20	A	1
Settlement Rd.....	Brook Park Rd.....	Wooster Pike.....	2.7	20	A	1
York Rd.....	Ridgewood Drive.....	Pleasant Valley Rd.....	1.4	20	A	1
Ridge Rd.....	Pleasant Valley Rd.....	Royalton Rd.....	3.6	20	B	2
York Rd.....	Pleasant Valley Rd.....	Royalton Rd.....	3.6	20	B	2
Total.....			23.1			
New Construction:						
Settlement Rd. extension.....	Wooster Pike.....	Pleasant Valley Rd.....	1.0	20	A	1
Settlement Rd. extension.....	Pleasant Valley Rd.....	Royalton Rd.....	3.6	20	B	2
Settlement Rd. extension.....	Royalton Rd.....	County line.....	2.6	20	B	2
Tiedeman Rd.....	Brook Park Rd.....	Linndale Rd.....	1.7	20	B	2
Total.....			8.9			
Grand total.....			43.4			

Southwest section of Cuyahoga County

New Routes:						
Brook Park Rd. extension.....	Riverside Drive.....	Rocky River.....	1.3	40	A	1
Bagley Rd.—Pleasant Valley Rd. connection.....	Bagley Rd.....	Pleasant Valley Rd.....	1.0	20	A	1
Total.....			2.3			
Widening:						
Bagley Rd.....	Front St.....	East Rd.....	0.4	40	A	1
Irish Rd.....	Usher Rd.....	West Rd.....	0.5	40	A	1
Irish Rd.....	Riverside Drive extension.....	Front St.....	0.3	40	A	1
Bagley Rd.....	East Rd.....	Wooster Pike.....	2.3	20	A	1
Irish Rd.....	West Rd.....	Riverside Drive extension.....	1.4	20	A	1
Depot Rd.....	Wooster Pike.....	Prospect Rd.....	1.3	20	A	2
Pleasant Valley Rd.....	Settlement Rd.....	Wooster Pike.....	0.4	20	A	2
Irish Rd.....	County Line.....	Usher Rd.....	3.5	20	B	1
Prospect Rd.....	Fair Rd.....	Depot Rd.....	1.7	20	B	2
Total.....			11.8			
Reconstruction and Widening:						
Brook Park Rd.....	West line of Parma.....	Riverside Drive.....	2.5	40	A	1
Columbia Rd.....	Irish Rd.....	Olmsted township line.....	2.0	20	A	1
Columbia Rd.....	Irish Rd.....	County line.....	1.6	20	B	2
Total.....			6.1			
New Construction:						
East Rd.....	Riverside Drive.....	Fowles Rd.....	3.1	20	B	1
Fair Rd.....	Sprague Rd.....	West Rd.....	1.0	20	B	1
West Rd.....	Fair Rd.....	Prospect Rd.....	0.2	20	B	1
Total.....			4.3			
Grand total.....			24.5			

HIGHWAY PLANNING REPORT

West section of Cuyahoga County

Road	From	To	Miles	Plan of improvement		
				Width (feet)	Type of construction	Period of construction
New Routes:						
Brook Park Rd.	Mastic Rd.	Rocky River	0.6	40	A	1
Detroit Rd. cut-off	Detroit Rd.	Blount St.	0.2	40	A	1
Detroit Rd.-Hilliard Rd. connection	Detroit Rd.	Hilliard Rd.	0.9	40	A	1
Lake Front Blvd. ¹	Lake Ave.	West Lake Rd.	2.6	40	A	1
Spencer Rd.	Mastic Rd.	Brook Park Rd. extension	0.1	40	A	1
Spencer Rd.	Lorain Rd.	West Lake Rd.	3.0	40	A	1
Avon Rd. extension	Detroit Rd.	Bradley Rd.	0.9	20	A	1
Brook Park Rd. extension	Mastic Rd.	County line	5.0	20	A	1
Hilliard Rd. extension	Detroit Rd.-Hilliard Rd. connection	Canterbury Rd.	3.5	20	A	1
Wolf Blvd.	Spencer Rd.	County line	5.5	20	A	1
Total			22.3			
Widening:						
Mastic Rd.	Brook Park Rd. extension	Clague Rd.	0.5	40	A	1
Spencer Rd.	Lorain Rd.	Mastic Rd.	1.2	40	A	1
West Lake Rd.	Blount St.	East line village of Bay.	1.9	40	A	1
West Lake Rd.	East line village of Bay	Dover Rd.	2.7	40	A	2
Hall Rd.	Detroit Rd.	Lorain Rd.	3.1	20	A	2
Mastic Rd.	Spencer Rd.	Brook Park Rd. extension	0.1	20	A	2
Mastic Rd.	Clague Rd.	Columbia Rd.	1.2	20	A	2
Butternut Ridge Rd.	Lorain Rd.	Columbia Rd.	1.6	20	B	2
Dover Rd.	West Lake Rd.	Butternut Ridge Rd.	5.3	20	B	2
Total			17.6			
Reconstruction and Widening:						
Center Ridge Rd.	East line of Dover	County line	6.1	40	A	1
Columbia Rd.	Lorain Rd.	North line of Olmsted township	2.1	20	A	1
Clague Rd.	West Lake Rd.	Lorain Rd.	3.4	20	A	1
Bradley Rd.	Detroit Rd.	Center Ridge Rd.	2.6	20	A	2
Bradley Rd.	West Lake Rd.	Detroit Rd.	2.6	20	B	2
Total			16.8			
Reconstruction:						
Detroit Rd.	Clague Rd.	County line	4.7	20	A	2
Total			4.7			
Grand total			61.4			

¹ Located partly within the City of Lakewood

Lake County

New Routes:						
St. Clair Ave. extension	Lloyd Rd.	U. S. Route 20	15.8	40	A	1
Johnny Cake Rd. (State Route 84)	State Route 44	S. Ridge Rd.	1.1	20	A	1
Total			16.9			
Widening:						
Euclid Ave. (U. S. Route 20)	Center St. (Mentor)	Painesville city line	5.3	40	A	1
Lake Shore Blvd. (State Route 175)	Cuyahoga Co. line	End of section	0.7	40	A	1
St. Clair Ave.	Cuyahoga Co. line	Lloyd Rd.	0.4	40	A	1
Lake Shore Blvd. (State Route 175)	Lost Nation Rd.	Andrews Rd.	2.1	20	A	1
Lake Shore Blvd. (State Route 175)	Richmond village line	Painesville city line	1.1	20	A	1
Center St. and Chillicothe Rd.	Willoughby-Kirtland Rd.	Walnut Rd.	2.7	20	B	1
Total			12.3			
Reconstruction and Widening:						
Vine St.	St. Clair Ave. extension	U. S. Route 20	0.8	40	A	1
Lake Shore Blvd. (State Route 175)	Vine St.	Point West	0.7	20	A	1
Lost Nation Rd.	U. S. Route 20	Lake Shore Blvd. (State Route 175)	3.5	20	A	1
Vine St.	Lake Shore Blvd. (State Route 175)	St. Clair Ave. extension	2.6	20	B	1
Chillicothe Rd. and Willoughby-Kirtland Rd.	Geauga Co. line	U. S. Route 20	6.4	20	B	1
Total			14.0			
Reconstruction:						
Euclid Ave. (U. S. Route 20)	Cuyahoga Co. line	French Rd.	0.3	40	A	2
Euclid Ave. (U. S. Route 20)	Chandler Rd.	High-level bridge	1.3	40	A	1
Total			1.6			
New Construction:						
Johnny Cake Rd. (State Route 84)	U. S. Route 20	Button Rd.	0.7	20	A	1
Ridge Rd. (State Route 84)	French Rd.	Willoughby-Kirtland Rd.	5.3	20	A	1
State Route 174	Cuyahoga Co. line	Ridge Rd.	4.4	20	C	1
Total			10.4			
Grand total			55.2			

APPENDIX
Lorain County

Road	From	To	Miles	Plan of improvement		
				Width (feet)	Type of construction	Period of construction
New Routes:						
Brook Park Rd. extension.....	Cuyahoga Co. line.....	Detroit Rd. (State Route 254).....	6.7	20	A	1
Hilliard Rd.....	Cuyahoga Co. line.....	Brook Park Rd. extension.....	1.3	20	A	1
Hilliard Rd.....	Brook Park Rd. extension.....	East River Rd.....	5.2	20	A	1
Powdermaker Rd.....	Moore Rd.....	Miller Rd.....	0.9	20	A	1
Powdermaker Rd.....	Harris Rd.....	Lorain city line.....	1.9	20	A	1
Butternut Ridge Extension.....	Township line.....	State Route 57.....	0.3	20	B	1
Butternut Ridge extension.....	Lagrange Rd.....	U. S. Route 20.....	1.4	20	B	1
State Route 82 extension.....	State Route 57.....	Butternut Ridge Rd.....	1.4	20	B	1
Total.....			19.1			
Widening:						
U. S. Route 20.....	Cuyahoga Co. line.....	Elyria.....	6.4	40	A	2
Butternut Ridge Rd.....	State Route 57.....	Lagrange Rd.....	2.5	20	B	1
Butternut Ridge Rd.....	Belden-Avon Rd.....	End of section.....	2.6	20	B	2
Total.....			11.5			
Reconstruction and Widening:						
Detroit Rd. (State Route 254).....	Cuyahoga Co. line.....	French Creek Rd.....	3.6	20	A	1
State Route 57.....	Elyria.....	Grafton.....	5.5	20	A	1
West Lake Rd. (State Route 2).....	Cuyahoga Co. line.....	Lorain city line.....	8.9	20	A	1
State Route 57.....	Grafton.....	Belden-Avon Rd.....	1.5	20	A	2
Belden-Avon Rd.....	South line of Avon.....	U. S. Route 20.....	1.8	20	B	1
Butternut Ridge Rd.....	Cuyahoga Co. line.....	Belden-Avon Rd.....	3.4	20	B	1
Butternut Ridge Rd.....	End of section.....	State Route 57.....	0.7	20	B	1
Irish Rd.....	Cuyahoga Co. line.....	Butternut Ridge Rd.....	1.1	20	B	1
French Creek Rd.....	Detroit Rd. (State Route 254).....	Lorain city line.....	4.1	20	B	1
Belden-Avon Rd.....	Butternut Ridge Rd.....	State Route 57.....	6.0	20	C	1
Total.....			36.6			
New Construction:						
Detroit Rd. (State Route 254).....	West line of Avon.....	West River Rd.....	1.9	20	A	1
Powdermaker Rd.....	Cuyahoga Co. line.....	Moore Rd.....	4.2	20	A	1
Powdermaker Rd.....	Miller Rd.....	Harris Rd.....	1.6	20	A	1
Total.....			7.7			
Grand total.....			74.9			

Summit County

New Routes:						
Chittenden Corners relocation.....	Chittenden Corners.....	State Route 8.....	0.3	20	A	1
Ghent, relocation.....	U. S. Route 21.....	State Route 92.....	0.3	20	A	1
Tallmadge Ave. relocation.....	State Route 18.....	State Route 261.....	1.4	20	A	1
Total.....			2.0			
Widening:						
State Route 8.....	Broad St.....	Limits of Cuyahoga Falls.....	0.9	40	A	1
State Route 18.....	Akron.....	State Route 92.....	2.7	40	A	1
State Route 36.....	Township line.....	End of section.....	0.8	40	A	1
State Route 36.....	Cuyahoga Falls line.....	Stow Corners.....	1.8	40	A	1
State Route 18.....	End of section.....	Medina Co. line.....	2.3	20	A	1
State Route 92.....	State Route 18.....	Ghent Relocation.....	2.4	20	A	1
Stowe Corners-Springfield Rd.....	Tallmadge.....	State Route 8.....	3.1	20	A	1
S. O. M. Center Rd. (State Route 91).....	Cuyahoga Co. line.....	Twinsburg.....	2.5	20	A	2
Total.....			16.5			
Reconstruction and Widening:						
State Route 8.....	Akron.....	Broad St.....	0.6	40	A	1
State Route 36.....	End of section.....	Township line.....	0.5	40	A	1
State Route 36.....	End of section.....	Cuyahoga Falls line.....	1.1	40	A	1
State Route 36.....	Stow Corners.....	Portage Co. line.....	2.6	40	A	1
State Route 14.....	Cuyahoga Co. line.....	Twinsburg.....	3.6	20	A	1
State Route 18.....	Akron.....	Portage Co. line.....	4.2	20	A	1
State Route 18.....	State Route 92.....	End of section.....	1.6	20	A	1
U. S. Route 21.....	State Route 92.....	Cuyahoga Co. line.....	8.5	20	A	1
Stow Corners-Springfield Rd.....	Stow Corners.....	Tallmadge.....	4.2	20	A	1
Tallmadge Ave.....	Akron.....	Tallmadge.....	2.1	20	A	1
Total.....			29.0			
New Construction:						
State Route 82.....	State Route 14.....	Portage Co. line.....	1.5	20	B	1
Total.....			1.5			
Grand total.....			49.0			

HIGHWAY PLANNING REPORT

Portage County

Road	From	To	Miles	Plan of improvement		
				Width (feet)	Type of construction	Period of construction
Widening:						
State Route 44.....	In Mantua.....		0.2	40	A	1
State Route 44.....	In Mantua.....		0.7	20	A	1
Total.....			0.9			
Reconstruction and Widening:						
State Route 36.....	Summit Co. line.....	Kent.....	0.8	40	A	1
State Route 18.....	Summit Co. line.....	State Route 44.....	7.8	20	A	1
State Route 36.....	Kent.....	Ravenna.....	4.7	20	A	1
State Route 43.....	Kent.....	State Route 18.....	2.9	20	A	1
State Route 44.....	Mantua.....	Ravenna.....	7.6	20	A	1
State Route 44.....	State Route 82.....	Mantua.....	1.6	20	A	1
State Route 82.....	State Route 43.....	State Route 44.....	7.1	20	A	1
State Route 43.....	State Route 14.....	Kent.....	5.4	20	A	2
State Route 43.....	State Route 82.....	State Route 14.....	4.7	20	B	1
Total.....			42.6			
New Construction:						
Chillicothe Rd.....	Geauga Co. line.....	State Route 82.....	2.2	20	C	1
Hudson-Streetsboro Rd.....	Summit Co. line.....	State Route 44.....	8.1	20	C	1
State Route 82.....	Summit Co. line.....	State Route 43.....	2.3	20	B	1
Total.....			12.9			
Grand total.....			56.4			

Medina County

Widening:						
State Route 18.....	Medina.....	B. & O. R. R.....	4.1	20	A	1
Belden-Hudson Rd.....	Township line.....	Wooster Pike.....	1.9	20	B	1
		(U. S. Route 42)				
State Route 3.....	Hinckley.....	Township line.....	5.1	20	B	1
State Route 57.....	Lorain Co. line.....	End of section.....	1.0	20	B	1
Belden-Hudson Rd.....	Wooster Pike (U. S. Route 42).....	Hinckley.....	4.7	20	C	2
Belden-Hudson Rd.....	Lorain Co. line.....	End of section.....	3.8	20	C	2
Total.....			20.6			
Reconstruction and Widening:						
Wooster Pike (U. S. Route 42).....	Cuyahoga Co. line.....	Medina.....	9.1	20	A	1
Settlement Rd. extension.....	Cuyahoga Co. line.....	Belden-Hudson Rd.....	2.6	20	B	1
Belden-Hudson Rd.....	Hinckley.....	State Route 94.....	1.0	20	B	2
State Route 94.....	Cuyahoga Co. line.....	Belden-Hudson Rd.....	2.8	20	B	2
Total.....			15.5			
New Construction:						
Belden-Hudson Rd.....	Through Hinckley.....		0.3	20	B	1
Settlement Rd. extension.....	Belden-Hudson Rd.....	State Route 3.....	2.7	20	B	1
Belden-Hudson Rd.....	State Route 94.....	Summit Co. line.....	1.9	20	C	1
Total.....			4.9			
Grand total.....			41.0			

Geauga County

New Routes:						
So. Moreland Blvd. extension.....	Cuyahoga Co. line.....	Bainbridge Rd.....	3.2	20	A	2
Total.....			3.2			
Widening:						
U. S. Route 322.....	Cuyahoga Co. line.....	Scotland.....	1.7	20	A	1
U. S. Route 422.....	Cuyahoga Co. line.....	State Route 44.....	6.7	20	A	1
Chillicothe Rd.....	Lake Co. line.....	Township line.....	5.0	20	B	1
State Route 87.....	Cuyahoga Co. line.....	Chillicothe Rd.....	2.9	20	B	1
Chillicothe Rd.....	Township line.....	State Route 87.....	2.6	20	B	2
State Route 87.....	Chillicothe Rd.....	State Route 44.....	7.8	20	B	2
Total.....			26.7			
Reconstruction and Widening:						
State Route 43.....	Cuyahoga Co. line.....	Geauga Co. line.....	0.9	20	A	1
Total.....			0.9			
New Construction:						
Bainbridge Rd.....	Chillicothe Rd.....	U. S. Route 422.....	3.2	20	A	1
State Route 87 cut-off.....	Cuyahoga Co. line.....	State Route 87.....	1.0	20	B	1
Bainbridge Rd.....	Cuyahoga Co. line.....	Chillicothe Rd.....	2.8	20	C	1
Total.....			7.0			
Grand total.....			37.8			

APPENDIX V

Structures Proposed in the Improvement Plan of the Regional Area Cuyahoga County

Construction proposed	Section of county	Road on which bridge is located	Bridge crosses	Width in feet
New bridge ¹ on existing route...	East-south-central...	Station Rd. (State Route 82).....	Cuyahoga River ²	20
	East-central.....	So. Moreland Blvd. extension.....	Chagrin River.....	20
Bridges on new routes.....	Southeastern.....	Northfield Rd. extension.....	Tinkers Creek.....	40
	East-south-central...	Brook Park Rd. extension.....	Cuyahoga River.....	40
		do	Canal.....	40
		Brecksville Rd. relocation (U.S. Route 21)	Cuyahoga River and Canal ³	40
		Canal Rd. relocation.....	Mill Creek ⁴	20
		Granger Rd. relocation.....	Mill Creek.....	20
	Western.....	Brook Park Rd. extension.....	Rocky River.....	40
		Lake Front Blvd. connection.....	Rocky River.....	40
		Spencer Rd.....	Stream south of West Lake Rd.....	40
	City of Cleveland....	Bulkley Blvd.-Summit Ave. connection.	Cuyahoga River ⁵	40
		Independence Rd. relocation.....	Industrial yards.....	40
		do	Burke Branch.....	40
		do	Ravine in Forest City Park.....	40
		Independence Rd.-Valley Rd. connection.	Cuyahoga River ⁶	40
		do	Canal.....	40
		do	Big Creek.....	40
		Lake Front Blvd.-St. Clair Rd. connection.	Creek in Gordon Park.....	40
Railway grade separations on existing routes.	Northeastern.....	Bliss Rd.....	Nickel Plate Railroad.....	20
		Chardon Rd.....	do	40
		Dille Rd.....	do	40
	East-central.....	Lee Rd.....	Erie Railroad.....	40
	Southeastern.....	Broadway in Bedford.....	Wheeling and Lake Erie Railroad.....	50
		Northfield Rd.....	Pennsylvania Railroad.....	20
		S. O. M. Center Rd.....	Erie Railroad.....	20
	East-south-central...	Fitzwater Rd.....	Baltimore and Ohio Railroad.....	20
	West-south-central...	Brook Park Rd.....	do	40
		Settlement Rd.....	do	20
	Southwestern.....	Front St. relocation (Berea).....	New York Central and Big Four Railroads.	40
		Irish Rd.....	do	20
		Columbia Rd.....	New York Central Railroad.....	20
		Brook Park Rd.....	Big Four Railroad.....	40
		Columbia Rd.....	do	20
		Brook Park Rd.....	Cleveland Short Line Railroad.....	40
		Bagley Road.....	Baltimore and Ohio Railroad.....	20
		East Rd.....	New York Central Railroad.....	20
		Bagley Rd.....	Cleveland Southwestern Electric Railway.	20
		Royalton Rd. (State Route 82).....	Baltimore and Ohio Railroad.....	20
	Western.....	Dover Center Rd.....	Nickel Plate Railroad.....	20
		Hall Rd.....	do	20
		Clague Rd.....	do	20
		Bradley Rd.....	do	20
		Hall Rd.....	Lake Shore Electric Railway.....	20
		Dover Center Rd.....	do	20
		Clague.....	do	20
Railway grade separations on new routes.	East-central.....	Northfield Rd. extension.....	Erie Railroad.....	40
	Southeastern.....	Richmond Rd.....	do	20
		Northfield Rd. extension.....	Wheeling and Lake Erie Railroad.....	40
		Brook Park Rd. extension.....	Lake Erie and Pittsburgh Railroad.....	40
		do	Pennsylvania and Wheeling and Lake Erie Railroads. ⁷	40
	East-south-central...	Brook Park Rd. extension.....	Baltimore and Ohio Railroad.....	40
		do	Branch of B. and O. Railroad.....	40
		Brecksville Rd.....	Baltimore and Ohio Railroad ⁸	40
		Granger Rd.....	Branch of B. and O. Railroad.....	20
	Western.....	Spencer Rd. extension.....	Nickel Plate Railroad.....	40
		do	Lake Shore Electric Railway.....	40
	City of Cleveland....	Lake Front Blvd.....	Pennsylvania Railroad.....	40
		Valley Rd.-Independence Rd. connection	Baltimore and Ohio Railroad ⁹	40
Highway grade separations.....	Southeastern.....	Northfield Rd. extension (upper).....	Broadway (lower).....	40 (upper) 30 (lower)
		Brook Park Rd. extension (upper).....	Windfall Ave. (lower).....	40 (upper) 24 (lower)
	East-south-central...	Schaaf Rd. (upper).....	Brook Park Rd. extension (lower).....	20 (upper) 40 (lower)
	Western.....	Center Ridge Rd. (U. S. Route 20) (upper).	Spencer Rd. extension (lower).....	40 (upper) 40 (lower)
	City of Cleveland....	Lake Front Blvd. (upper).....	East 72nd St. (lower).....	40 (upper) 30 (lower)
		Woodhill Rd. (upper).....	Shaker Blvd. (lower).....	40 (upper) 40 (lower)

¹ An intercounty bridge between Cuyahoga and Summit Counties.
² Also overpasses the Baltimore and Ohio Railroad.
³ Also overpasses branch of the Baltimore and Ohio Railroad.
⁴ Also bridges rail lines, Main St., and West 9th St.
⁵ Also overpasses Newburgh and South Shore Railroad.
⁶ Also overpasses Broadway.
⁷ Also overpasses Schaaf Road.
⁸ Also overpasses Jennings Road.

HIGHWAY PLANNING REPORT

Lake County

Construction proposed	Road on which bridge is located	Bridge crosses	Width in feet
New bridge on existing route.....	Ridge Rd. (State Route 84).....	Chagrin River.....	20
Bridges on new routes.....	St. Clair Ave. extension.....	do	40
	do	Grand River.....	40
Replacement or widening of bridges on existing routes.	Ridge Rd. connection.....	do	20
	State Route 175.....	Chagrin River.....	20
Railway grade separations on existing routes.	do	Branch of Chagrin River.....	20
	U. S. Route 20.....	Nickel Plate Railroad.....	40
	Vine St.....	New York Central Railroad.....	40
	do	Nickel Plate Railroad.....	40
	Richmond St.....	New York Central Railroad.....	40
	do	Baltimore and Ohio Railroad yards.....	40
	Lloyd Rd.....	New York Central Railroad.....	20
	do	Nickel Plate Railroad.....	20
	Center St. (Mentor).....	New York Central Railroad.....	20
	do	Nickel Plate Railroad.....	20
Liberty St. (Painesville).....	do	40	
State St. (Painesville).....	do	40	
State Route 44.....	Baltimore and Ohio Railroad.....	20	

Lorain County

New bridge on existing route.....	State Route 254 and Mills Rd. extension.....	Black River.....	20
Bridges on new routes.....	Butternut Ridge Rd. relocation.....	East Branch of Black River.....	20
	do	West Branch of Black River.....	20
Replacement or widening of bridges on existing routes.	State Route 82 extension.....	East Branch of Black River.....	20
	U. S. Route 20.....	Creek near Ridgeville.....	40
Railway grade separations on existing routes.	State Route 82.....	Creek near Eaton.....	20
	Beldon-Avon Rd.....	do	20
	State Route 82.....	Big Four Railroad.....	20
	State Route 254.....	Baltimore and Ohio Railroad.....	20
	Root Rd.....	New York Central Railroad.....	20
	Beldon-Avon Rd.....	do	20

Summit County

New bridge on existing route.....	State Route 36.....	Cuyahoga River.....	40
Replacement or widening of bridges on existing routes.	State Route 8.....	do	40
	State Route 36.....	Creek near Portage County line.....	40
Railway grade separations on existing routes.	State Route 82.....	Pond Brook.....	20
	Richfield-Hudson Rd.....	Cuyahoga River.....	20
	do	Canal.....	20
	State Route 82.....	Lake Erie and Pittsburgh Railroad.....	20
	do	Wheeling and Lake Erie Railroad.....	20
	State Route 91.....	do	20
Railway grade separations on new routes.	do	Northern Ohio Traction Line.....	20
	State Route 18.....	Erie Railroad.....	20
	Stow Corners-Springfield Rd.....	do	20
State Route 8 (Chittenden Corners relocation).....	Lake Erie and Pittsburgh Railroad.....	20	

Portage County

Railway grade separations on existing routes.	State Route 36.....	Baltimore and Ohio Railroad.....	20
	State Route 44.....	Erie Railroad.....	40
	State Route 82.....	do	20
	State Route 18.....	Wheeling and Lake Erie Railroad.....	20
	State Route 261.....	do	20

Medina County

Replacement or widening of bridges on existing routes.	U. S. Route 42.....	West Branch of Rocky River.....	20
	State Route 18.....	Creek east of Medina.....	20
Railway grade separations on existing routes.	State Route 3.....	Creek north of Weymouth.....	20
	State Route 94.....	East Branch of Rocky River.....	20
	State Route 18.....	Baltimore and Ohio Railroad.....	20

Geauga County

Replacement or widening of bridges on existing routes.	State Route 87.....	Chagrin River.....	20
	Chillicothe Rd.....	do	20
	do	Creek north of Russell Center.....	20

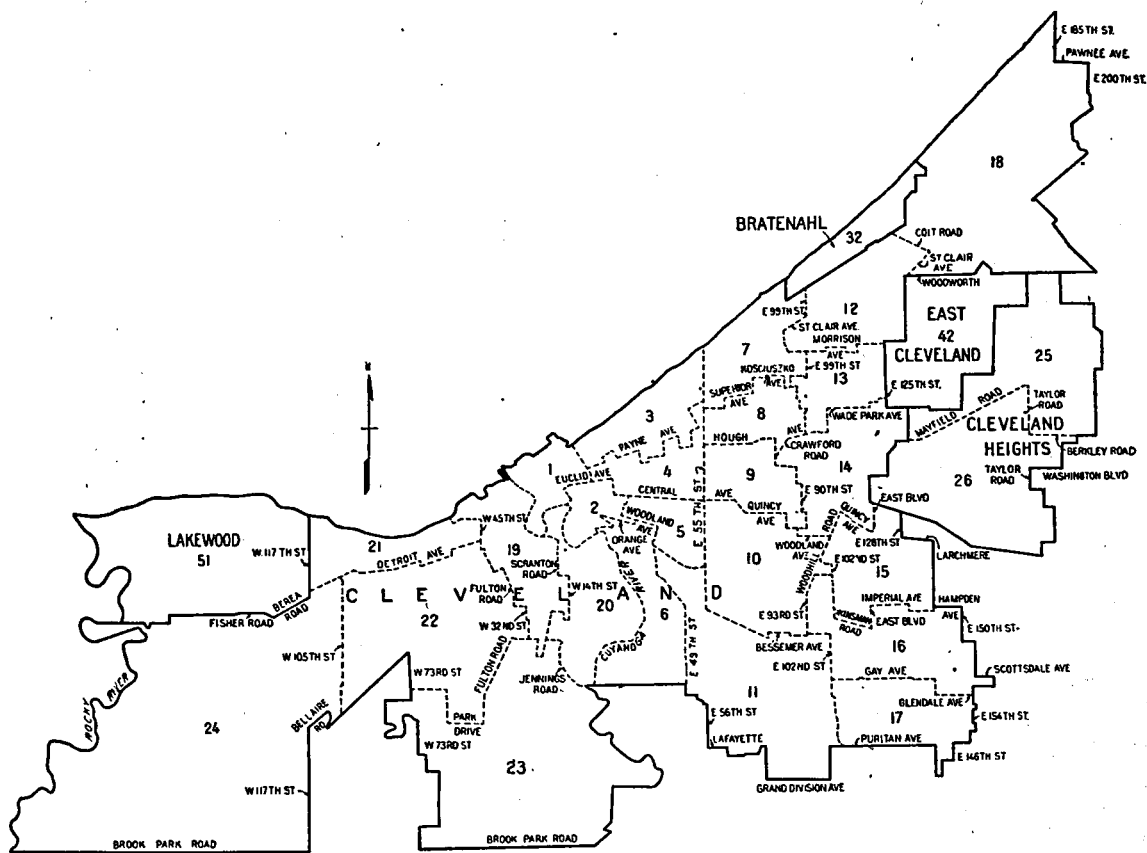


FIG. 1.—Map of Cleveland and adjacent cities showing sections into which they were divided for purposes of traffic origin and destination analysis

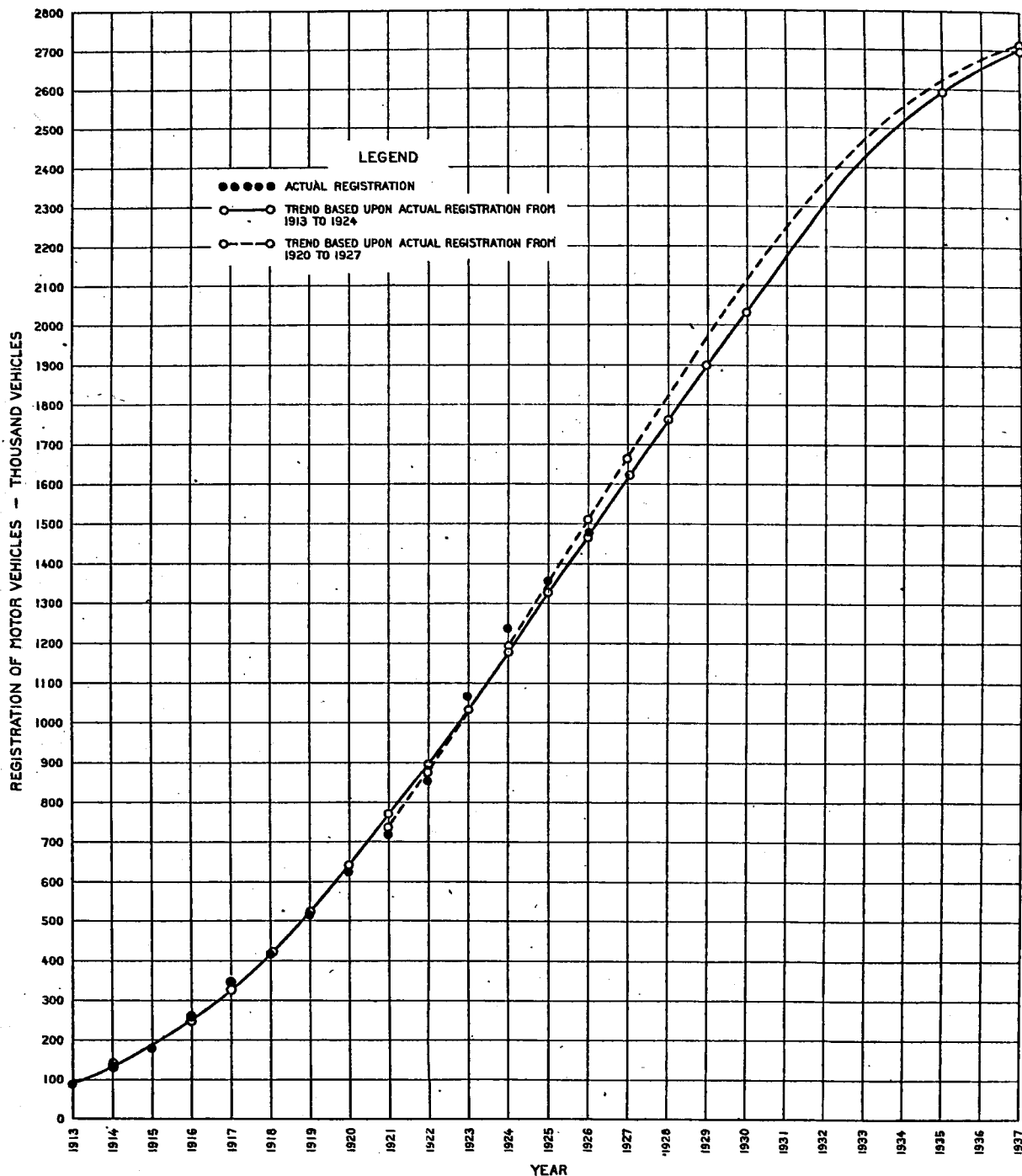


FIG. 2.—The growth and trend of motor vehicle registration in Ohio

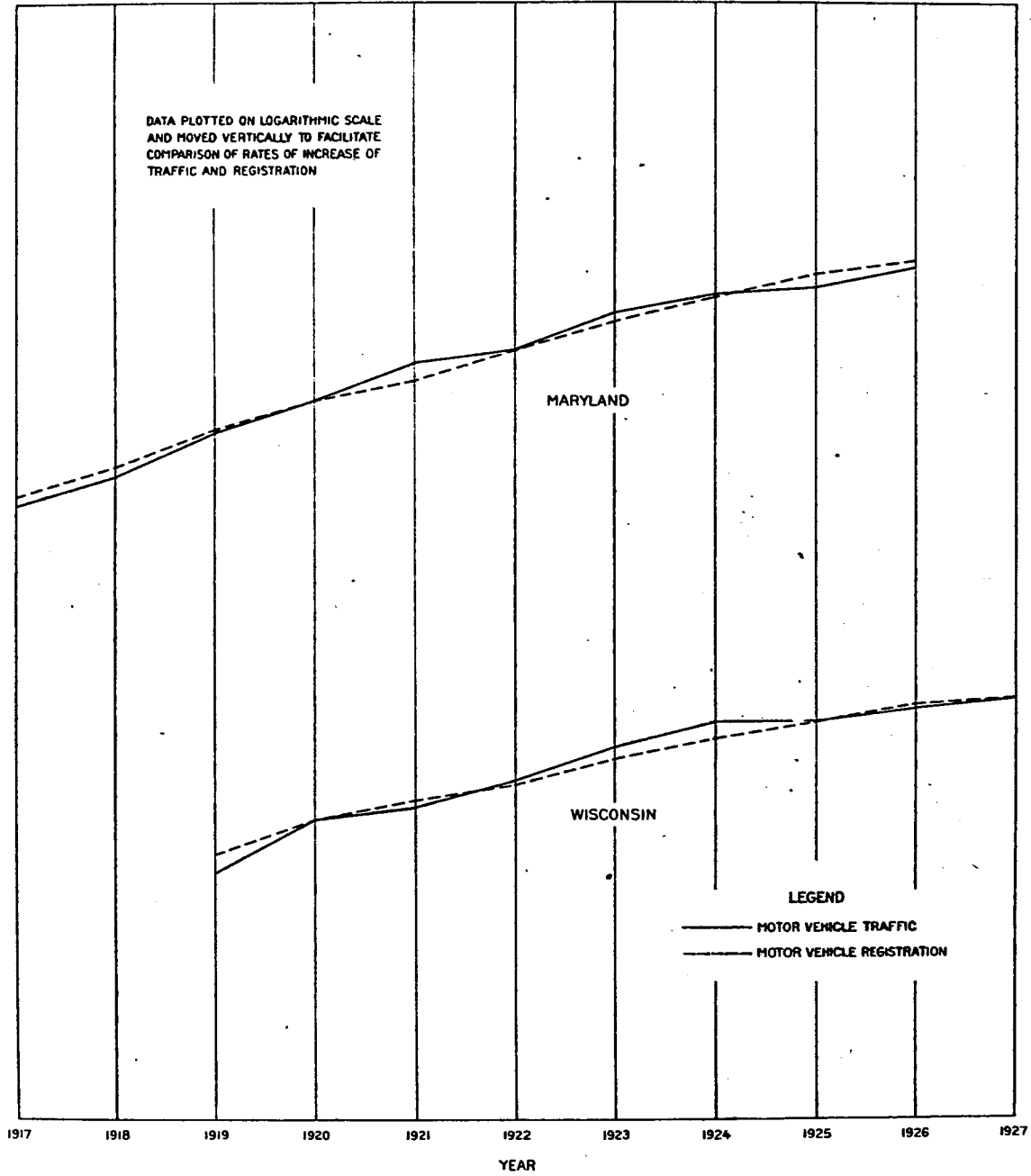


FIG. 3.—Trends of highway traffic and motor vehicle registration in Maryland and Wisconsin

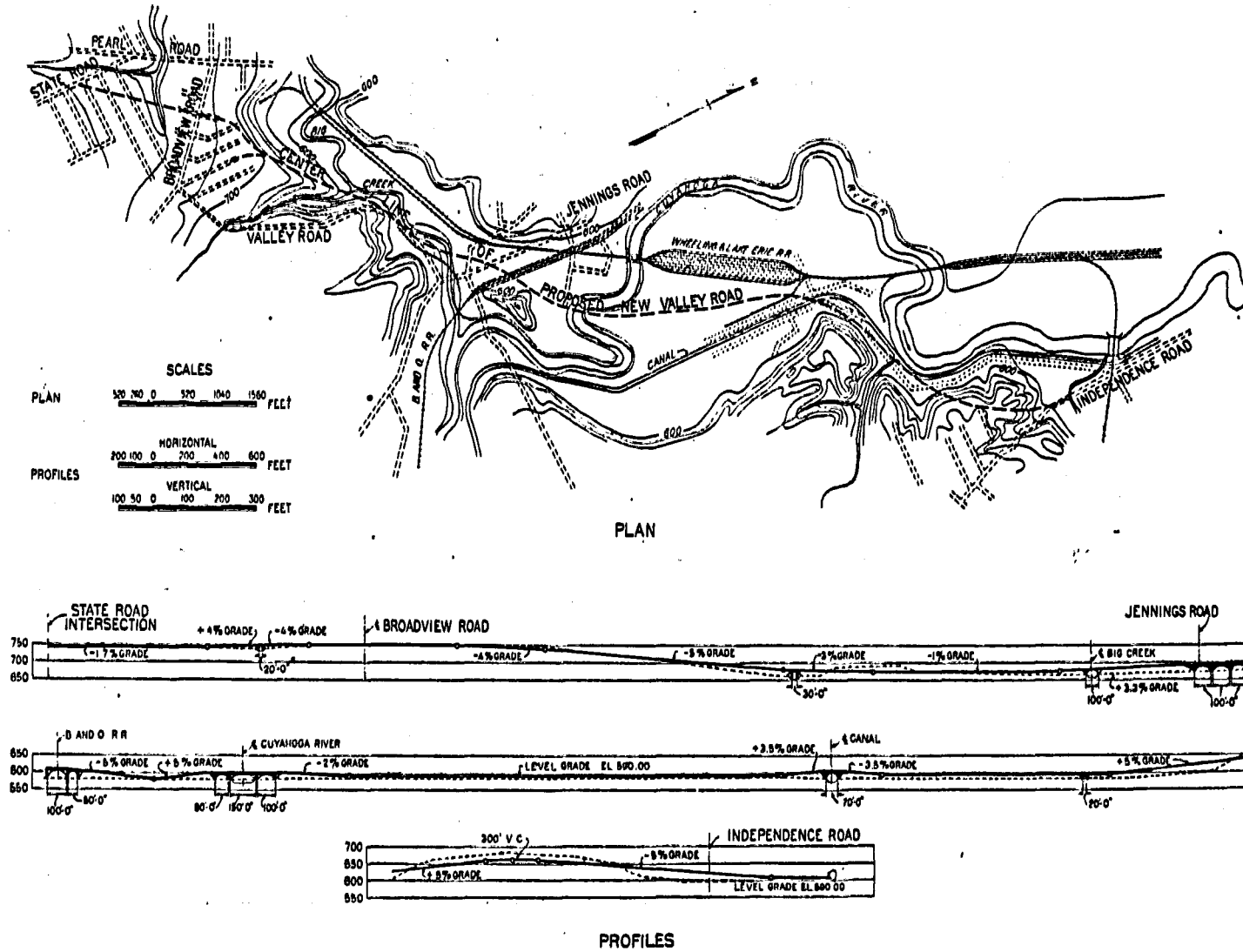


FIG. 4.—Study of the proposed Valley Road—Independence Road connection

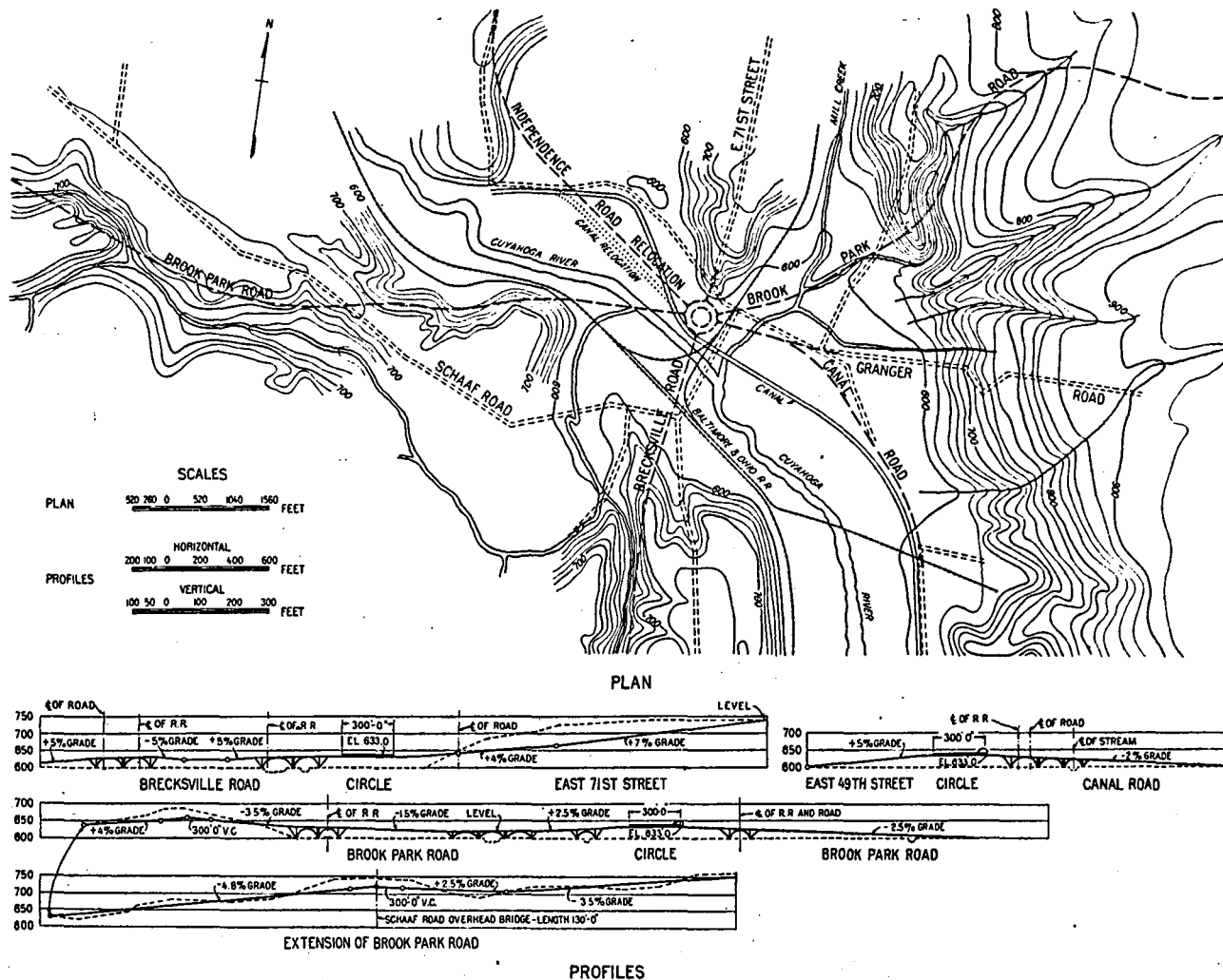


FIG. 5.—Study of the proposed circular intersection of East 71st Street, Independence Road, Brook Park extension, Brecksville Road, Canal Road, and Warner Road

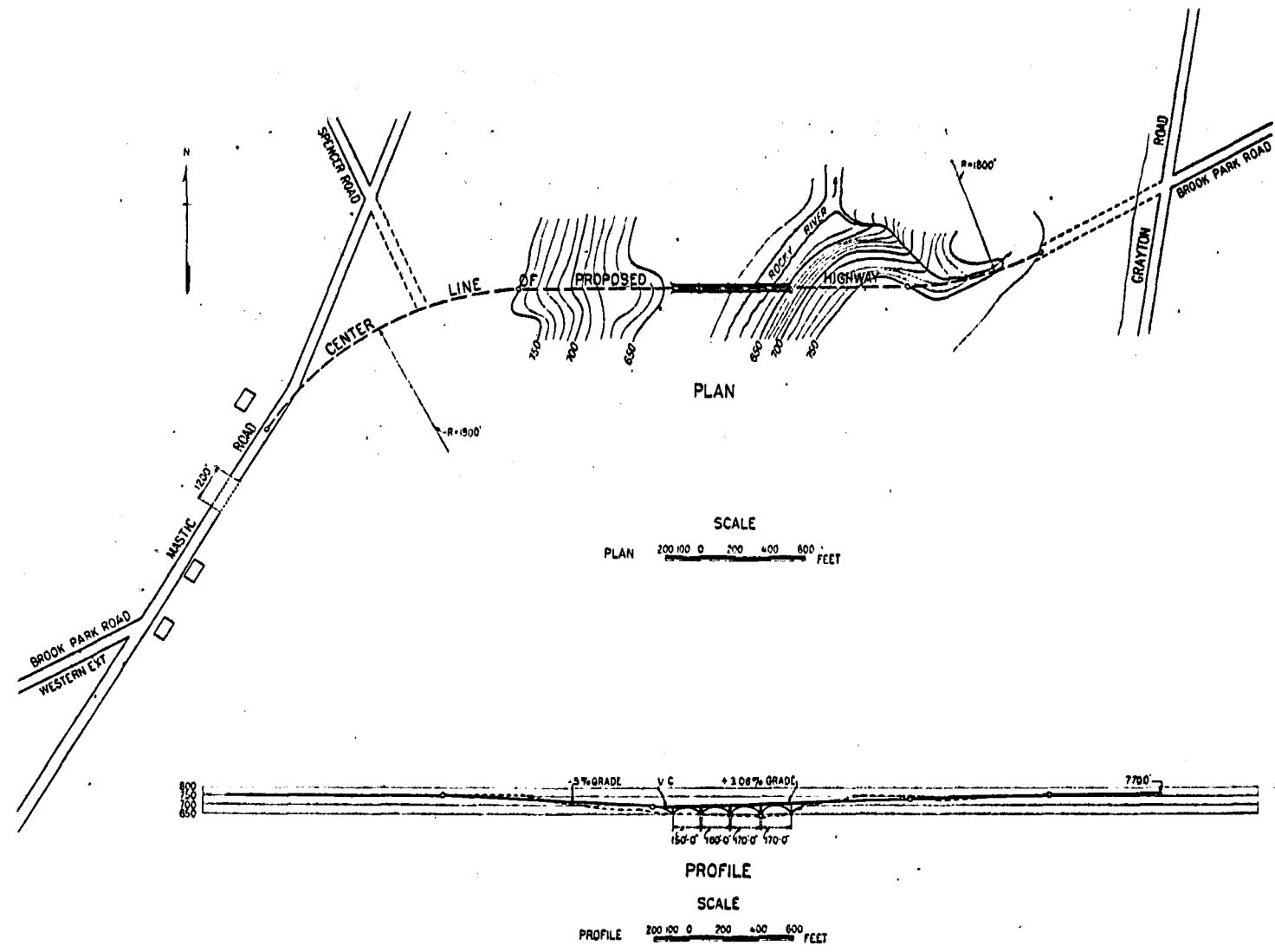


FIG. 6.—Study of Brook Park Road extension over Rocky River

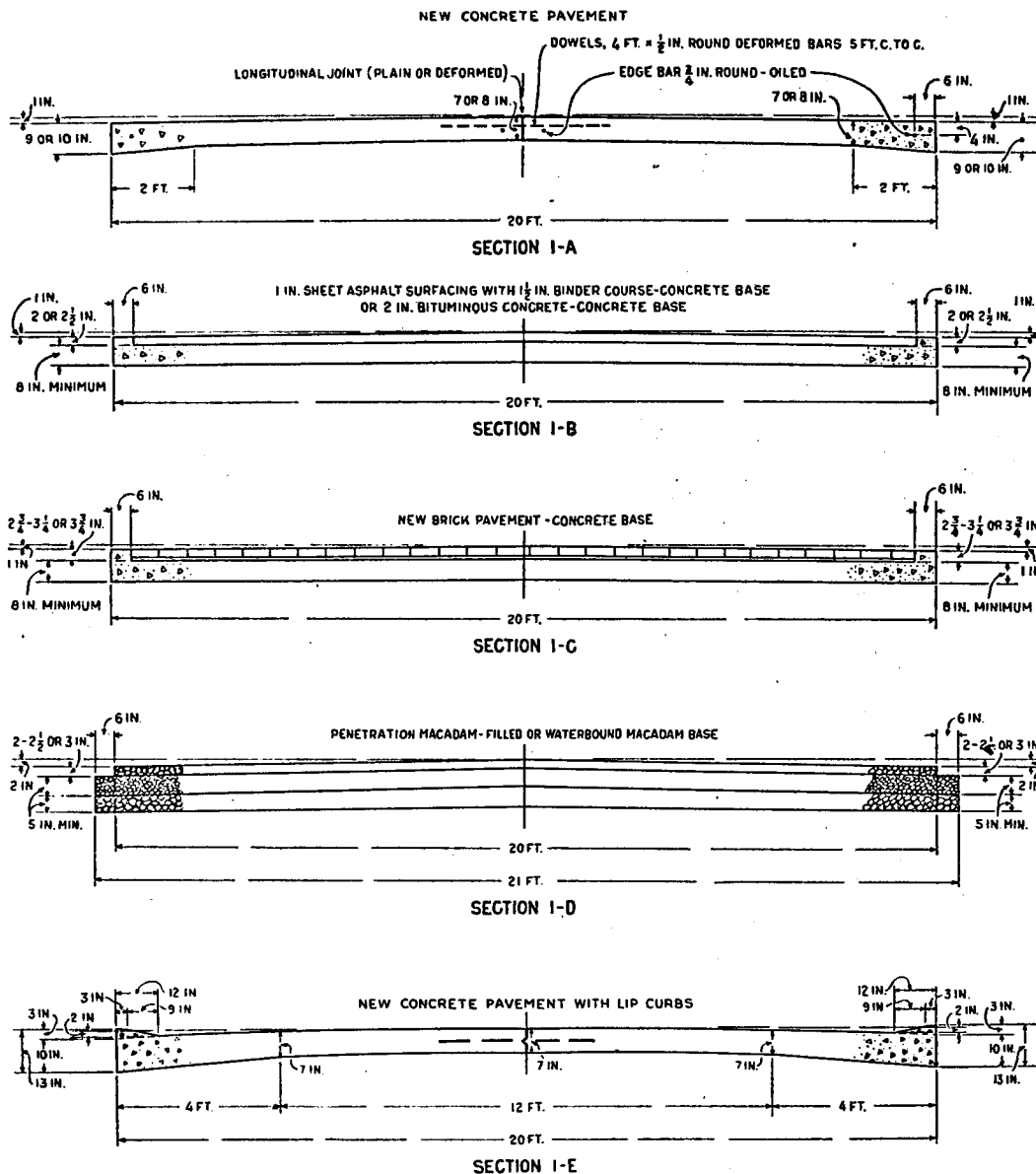


FIG. 7A.—Typical pavement cross-section designs

HIGHWAY PLANNING REPORT

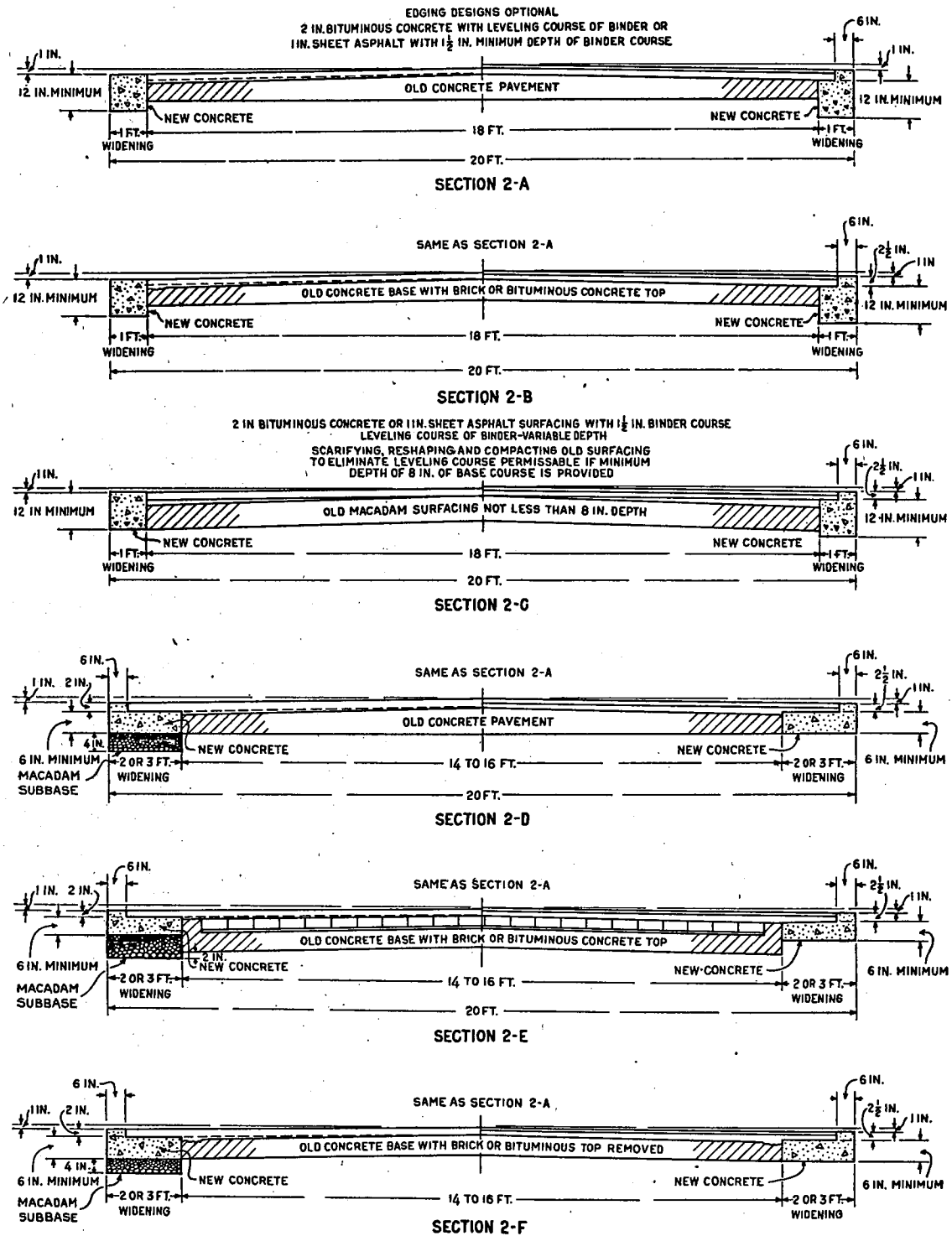


FIG. 7B.—Typical pavement cross-section designs

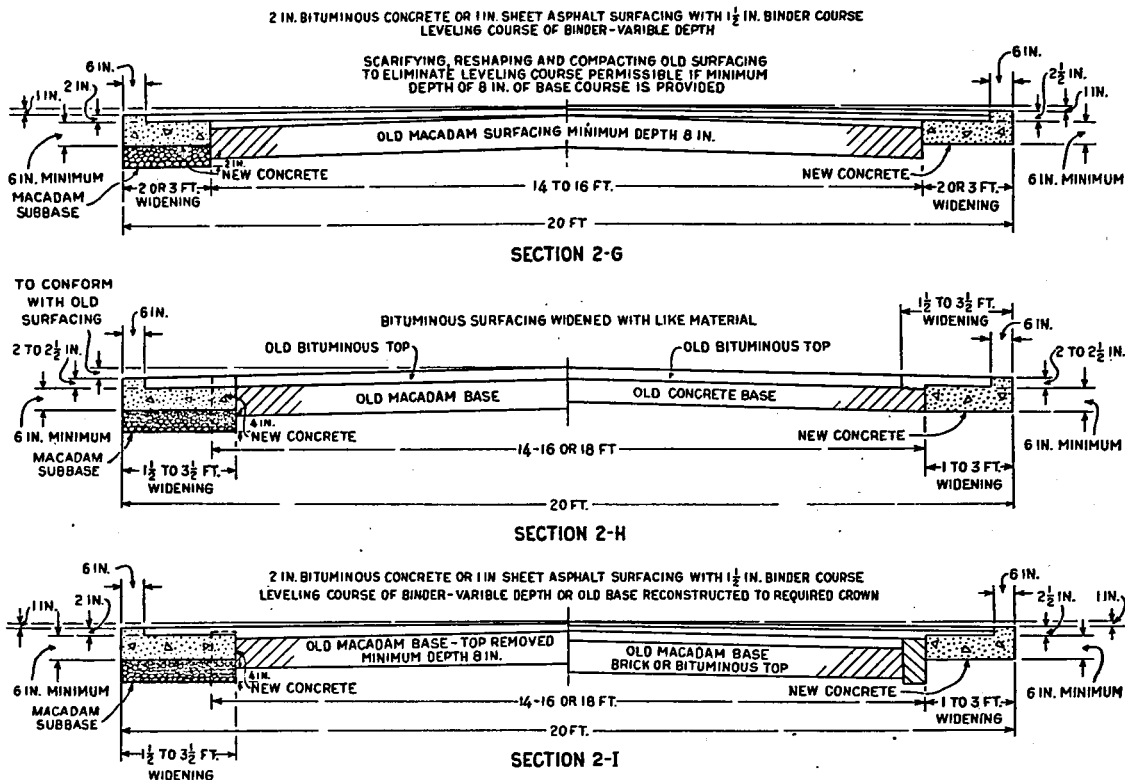


Fig. 7C.—Typical pavement, cross-section designs

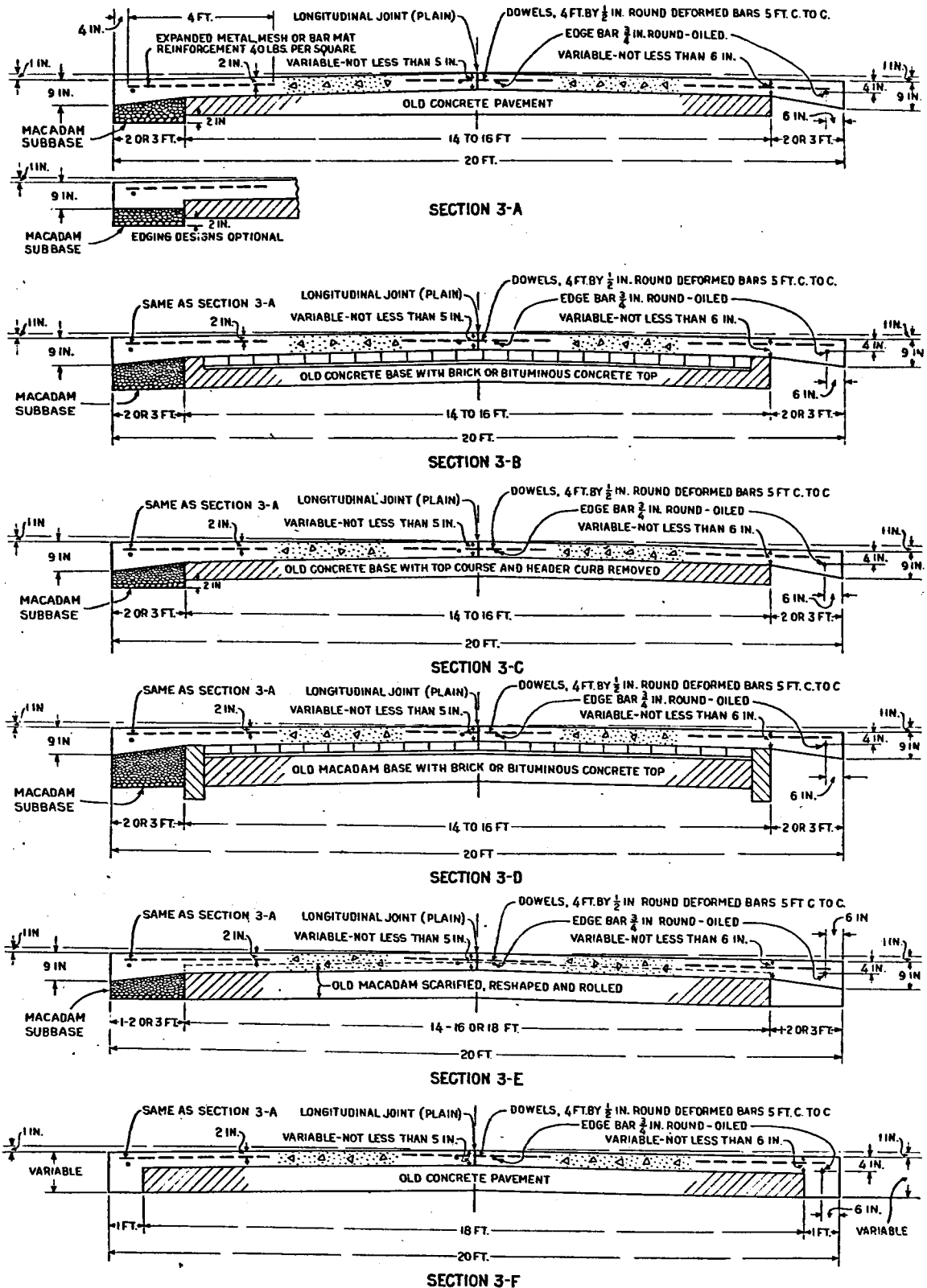


FIG. 7D.—Typical pavement cross-section designs

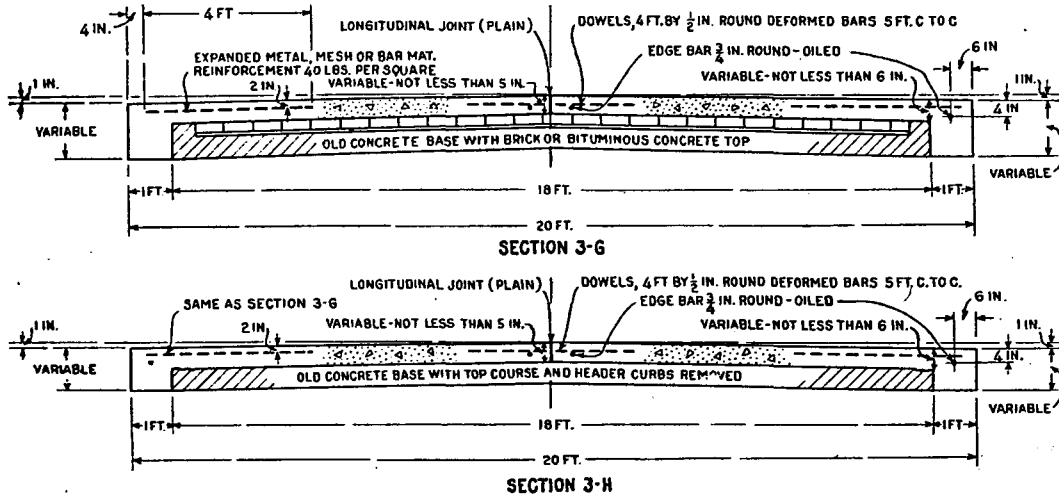
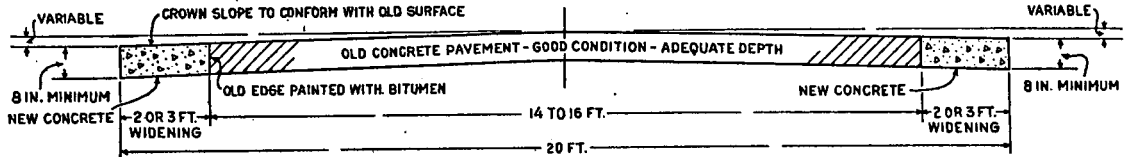
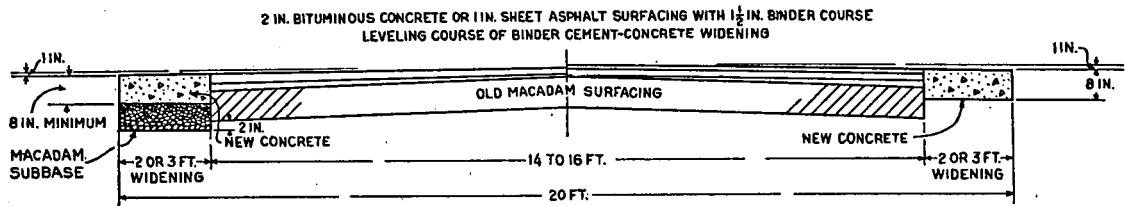


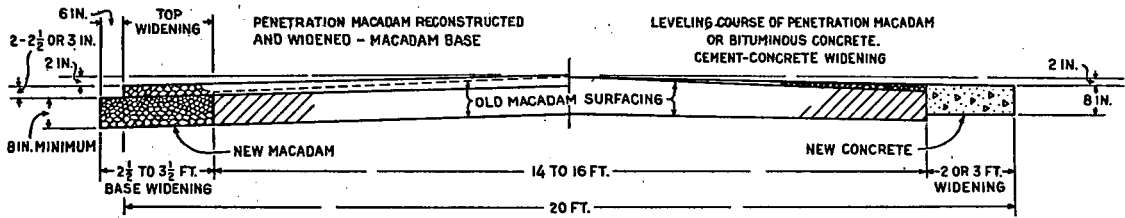
FIG. 7E.—Typical pavement cross-section designs



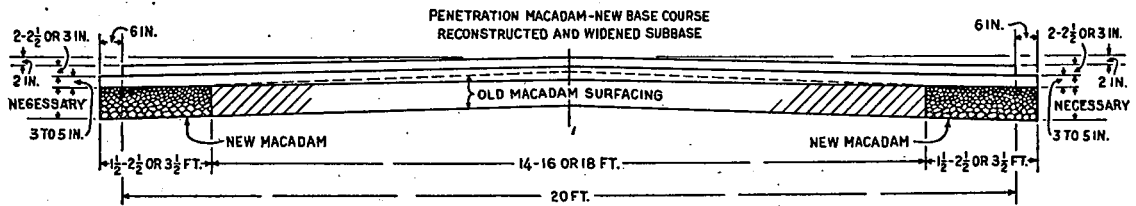
SECTION 4-A



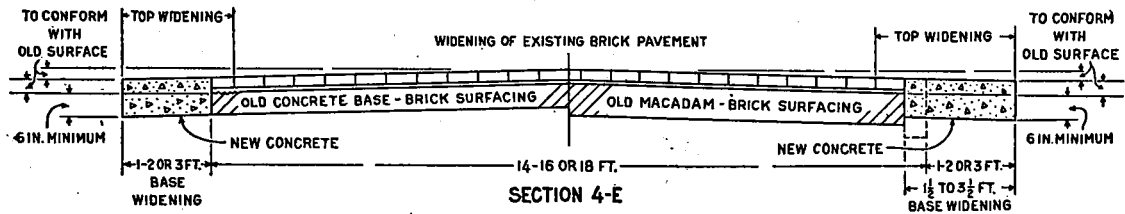
SECTION 4-B



SECTION 4-C



SECTION 4-D



SECTION 4-E

FIG. 7F.—Typical pavement cross-section designs

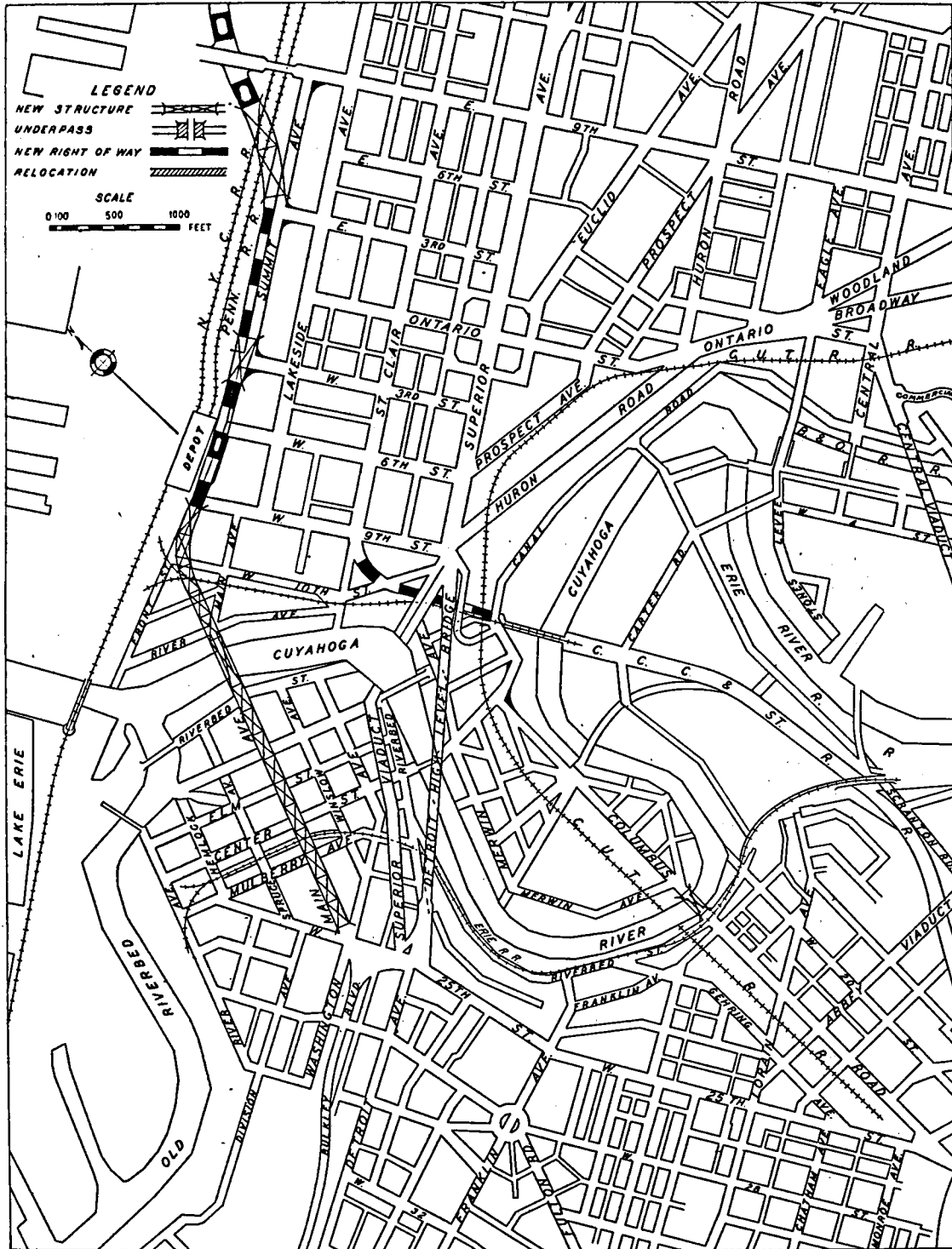


FIG. 8A.—Showing Main Avenue high-level bridge with Lake Front Boulevard connection and Columbus Road

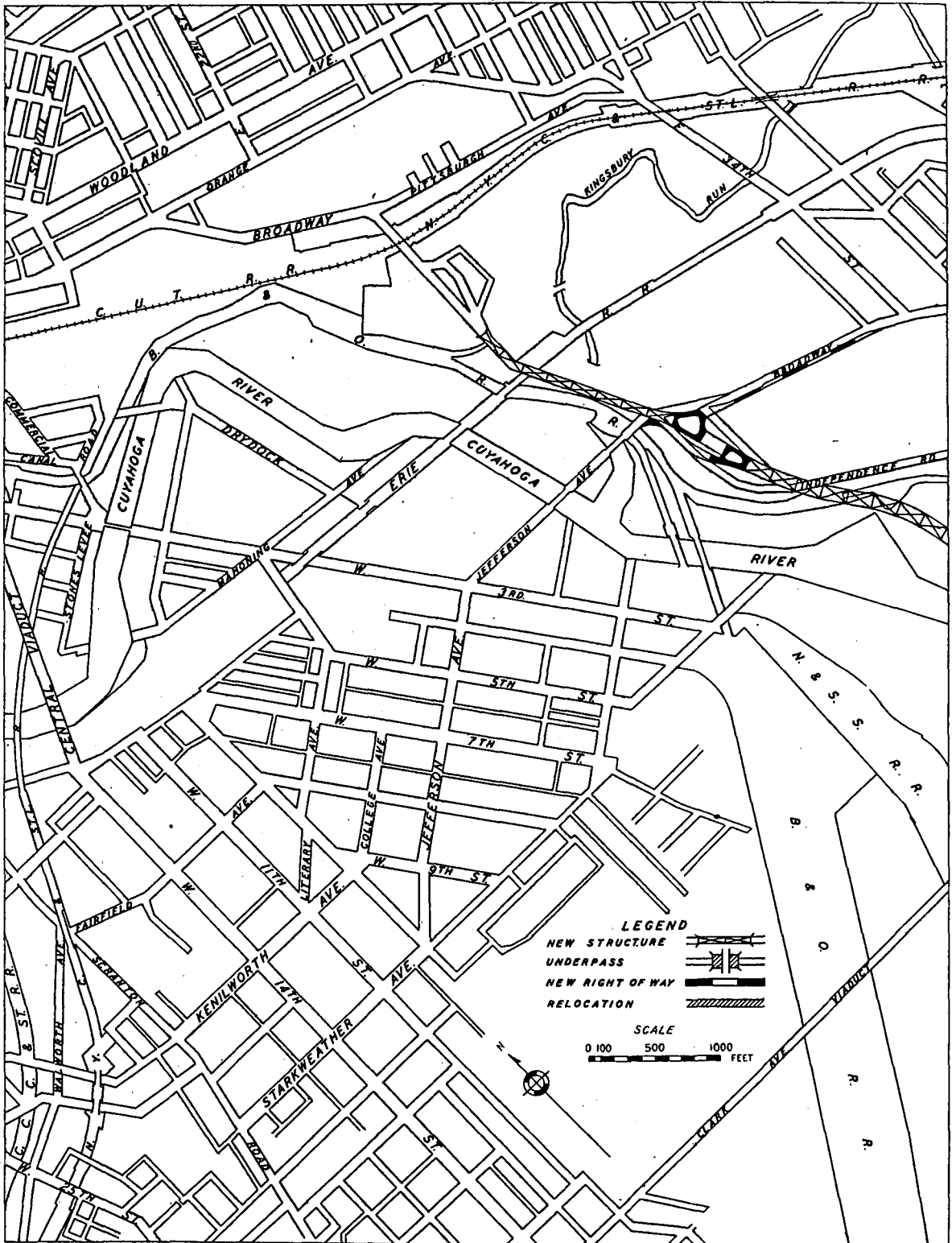


FIG. 8B.—South of area shown in Figure 8A, showing north end of Independence Viaduct with connection to Broadway

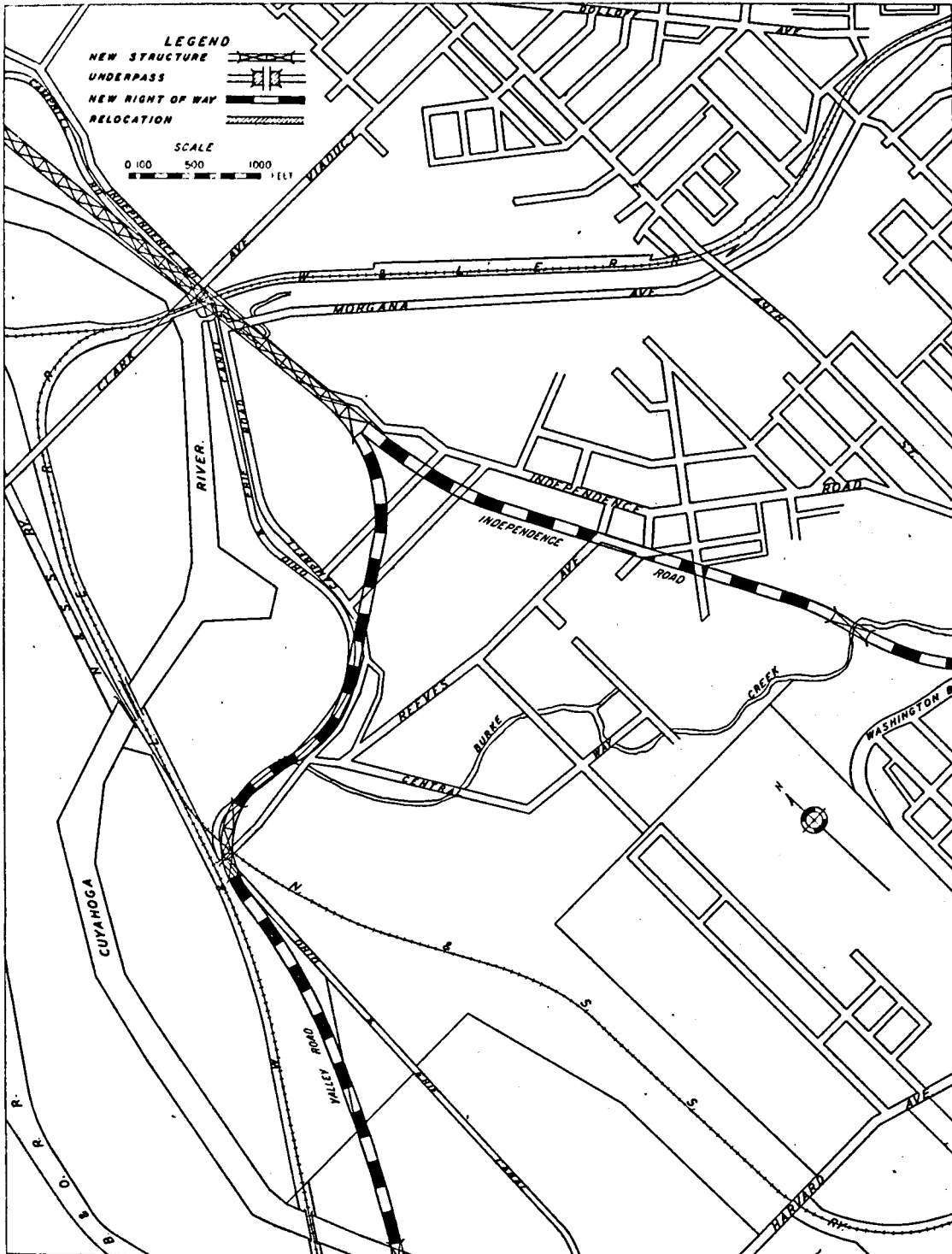
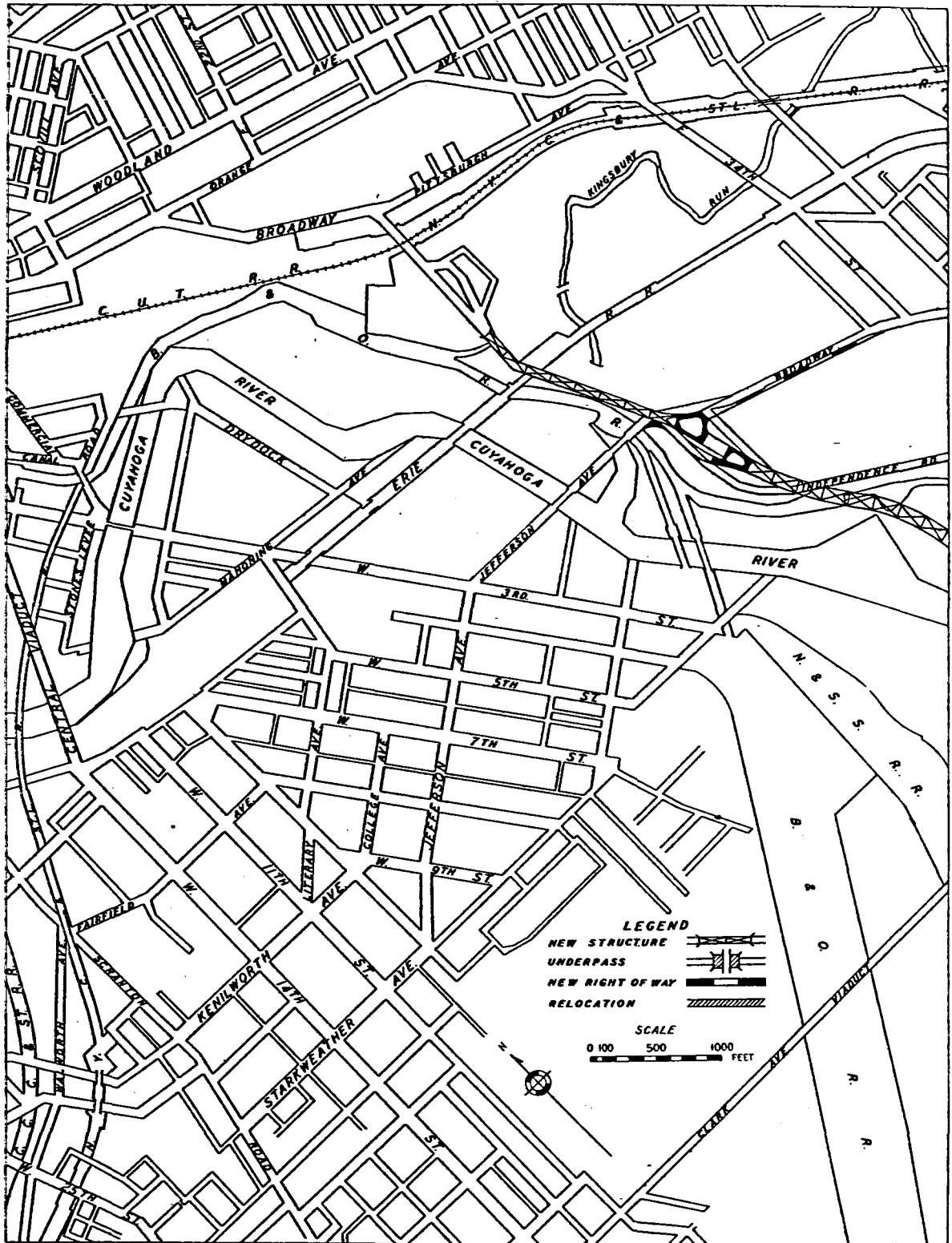


FIG. 8C.—South of area shown in Figure 8B, showing balance of Independence Viaduct and parts of Independence Road relocation and Valley Road



- FIG. 8B.—South of area shown in Figure 8A, showing north end of Independence Viaduct with connection to Broadway

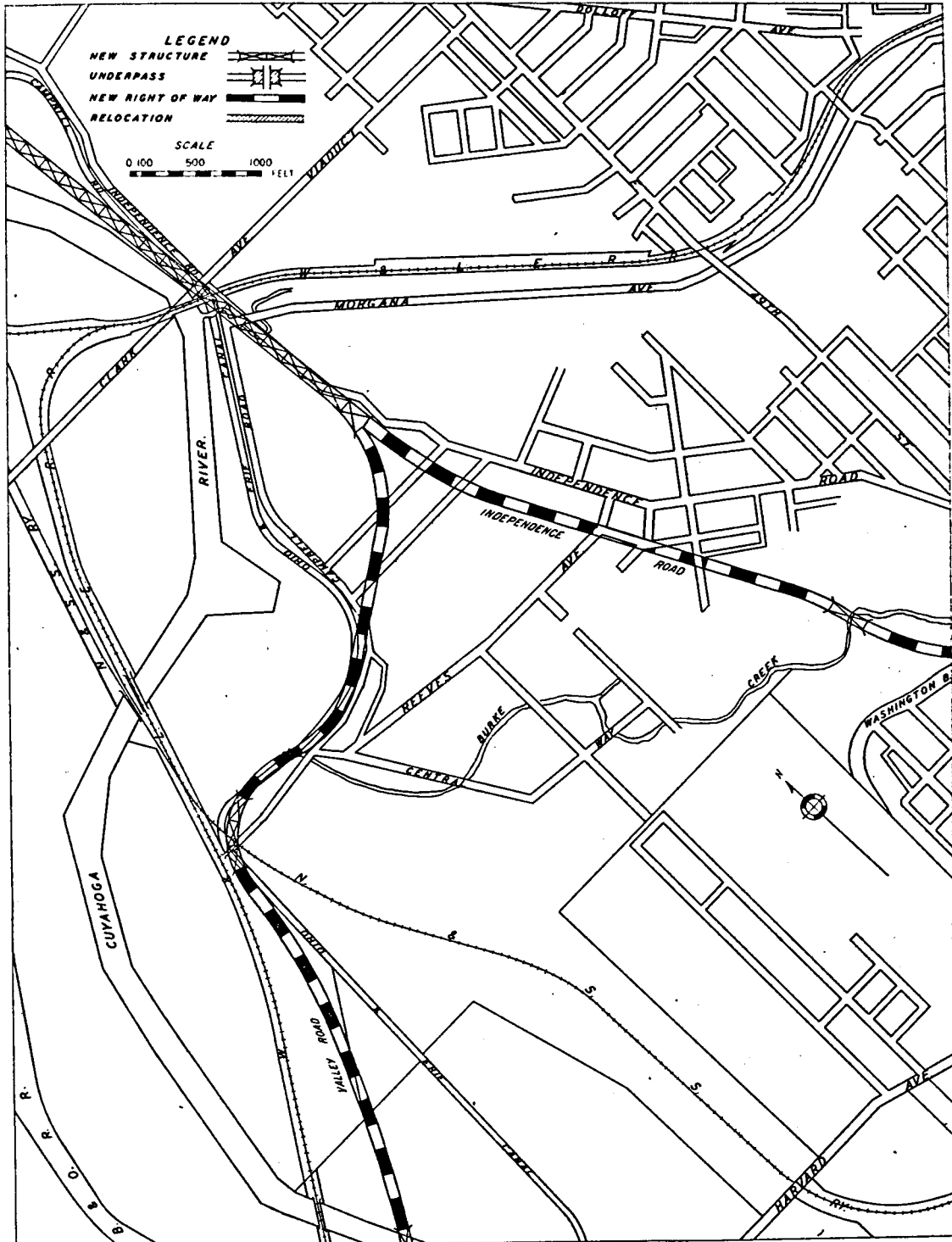


FIG. 8C.—South of area shown in Figure 8B, showing balance of Independence Viaduct and parts of Independence Road relocation and Valley Road

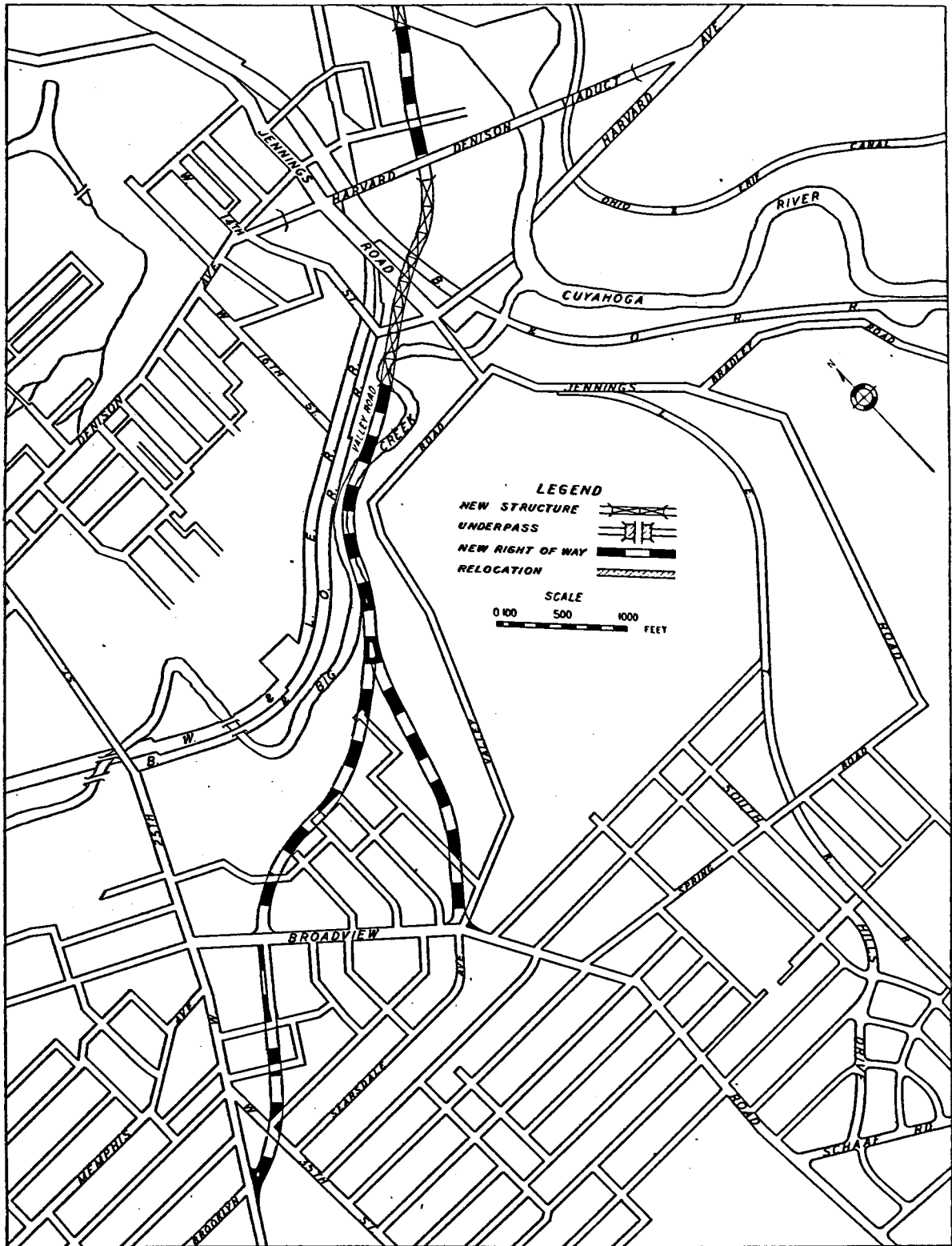


FIG. 8D.—West of area shown in Figure 8C, showing balance of Valley Road with connections to Broadview, State and Pearl Roads

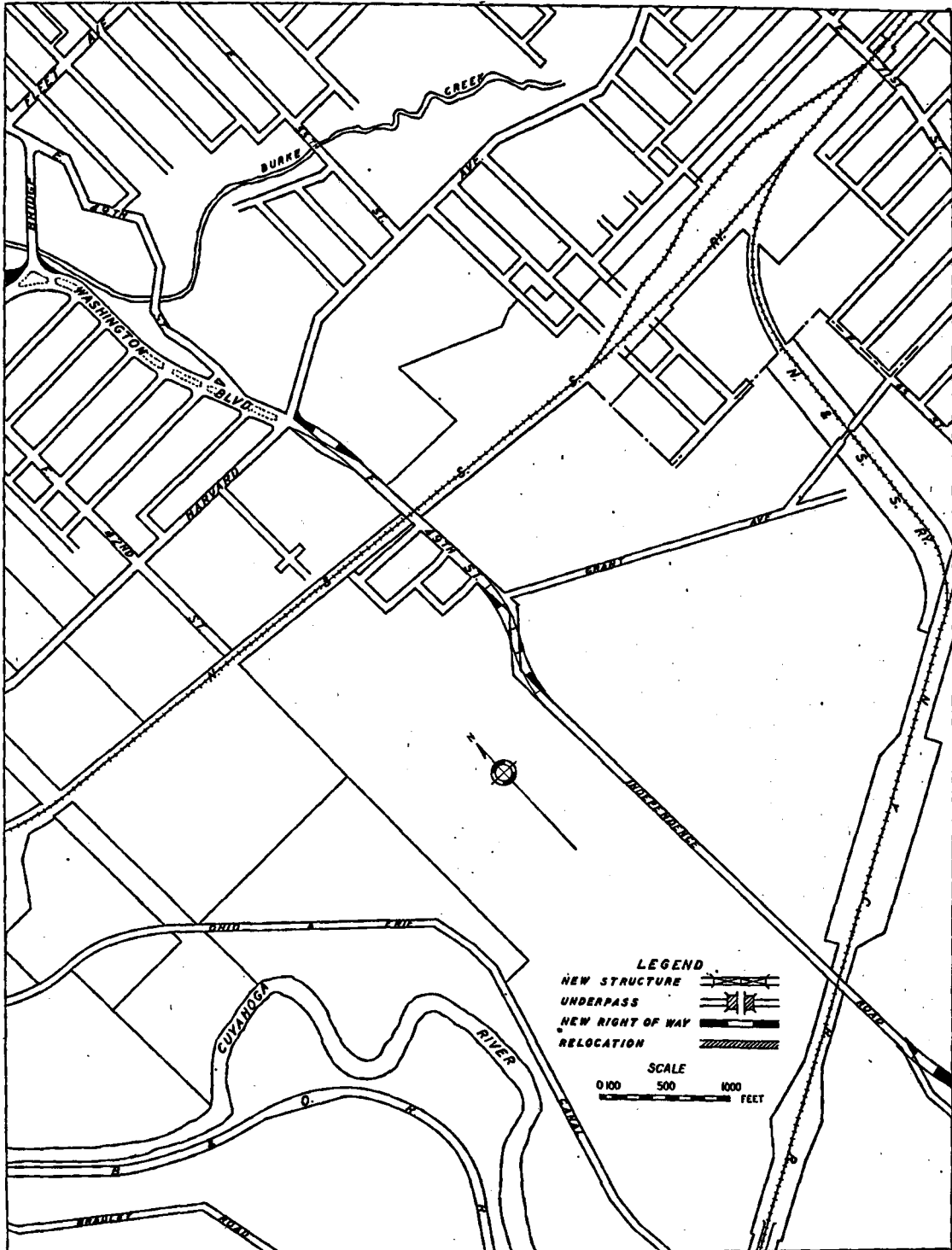


FIG. 8E.—South of area shown in Figure 8C, showing continuation of Independence Road relocation

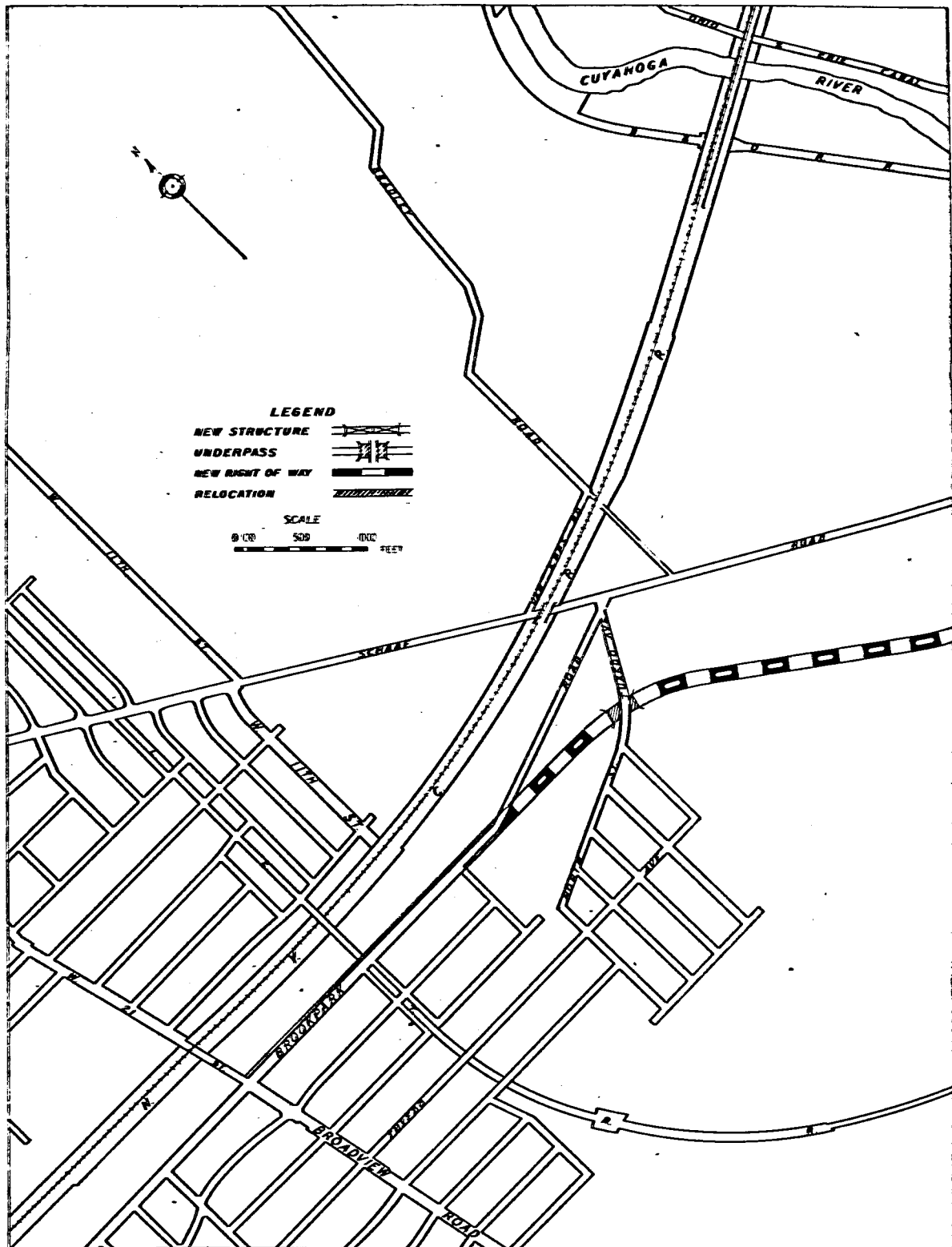


FIG. 8F.—South of area shown in Figure 8D, showing western part of Brook Park extension over Cuyahoga Valley

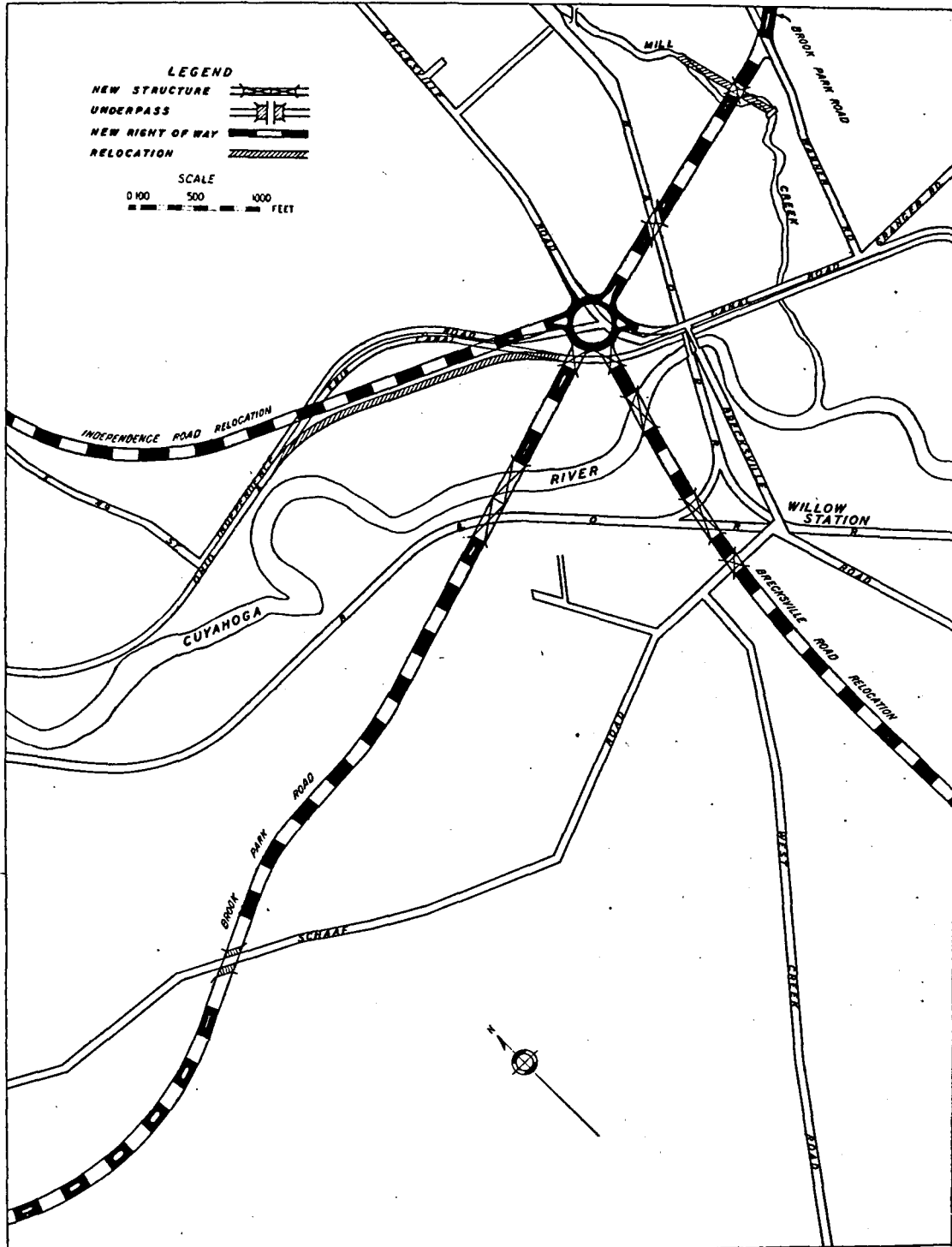


FIG. 8G.—South of area shown in Figure 8E and east of area of Figure 8F, showing Willow Circle with Independence Road, Brook Park Road, Brecksville Road and Canal Road connections

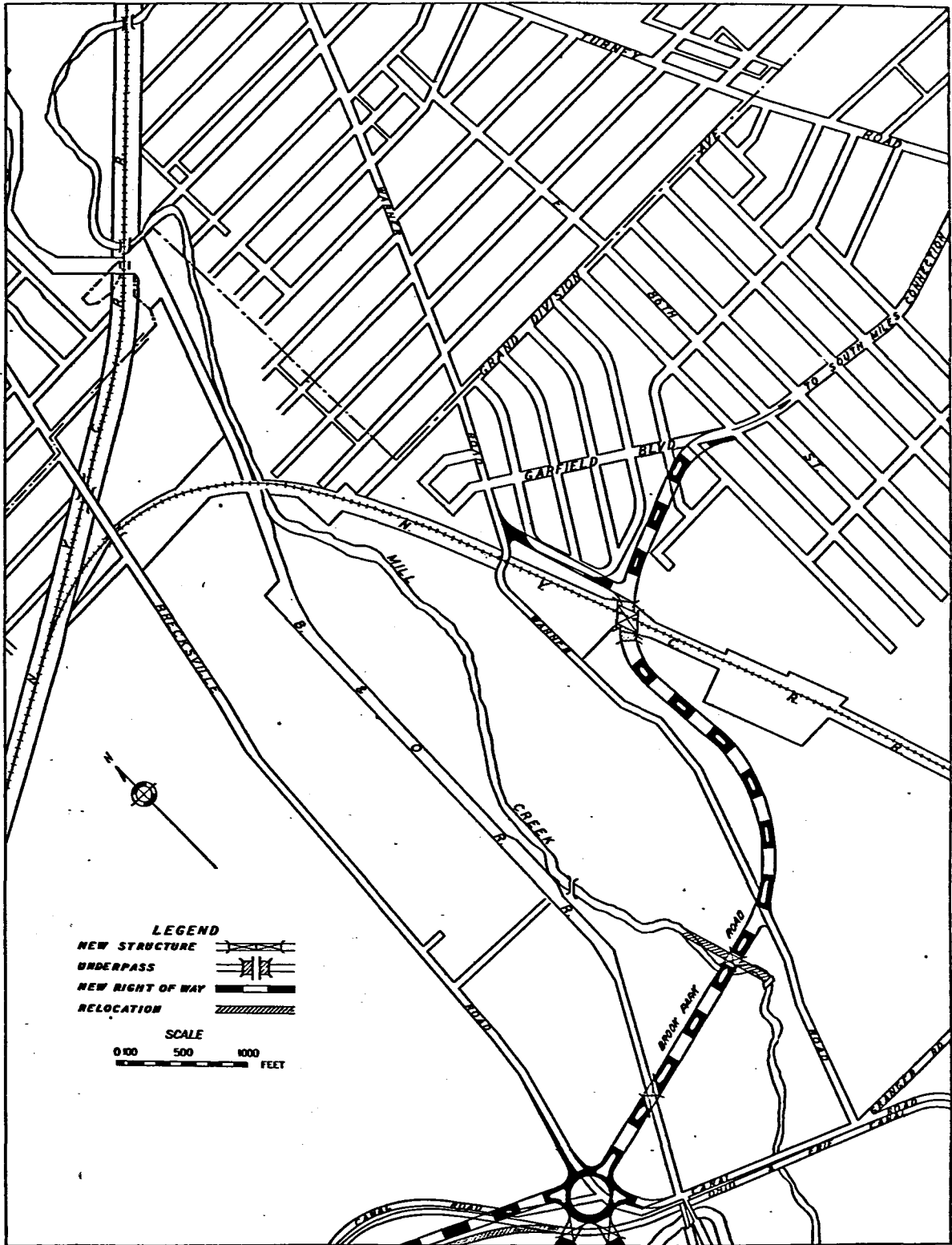


FIG. 8H.—East of and partially overlapping area of Figure 8G, showing Willow Circle with Brook Park Belt Road connection to Garfield Boulevard and Warner Road relocation

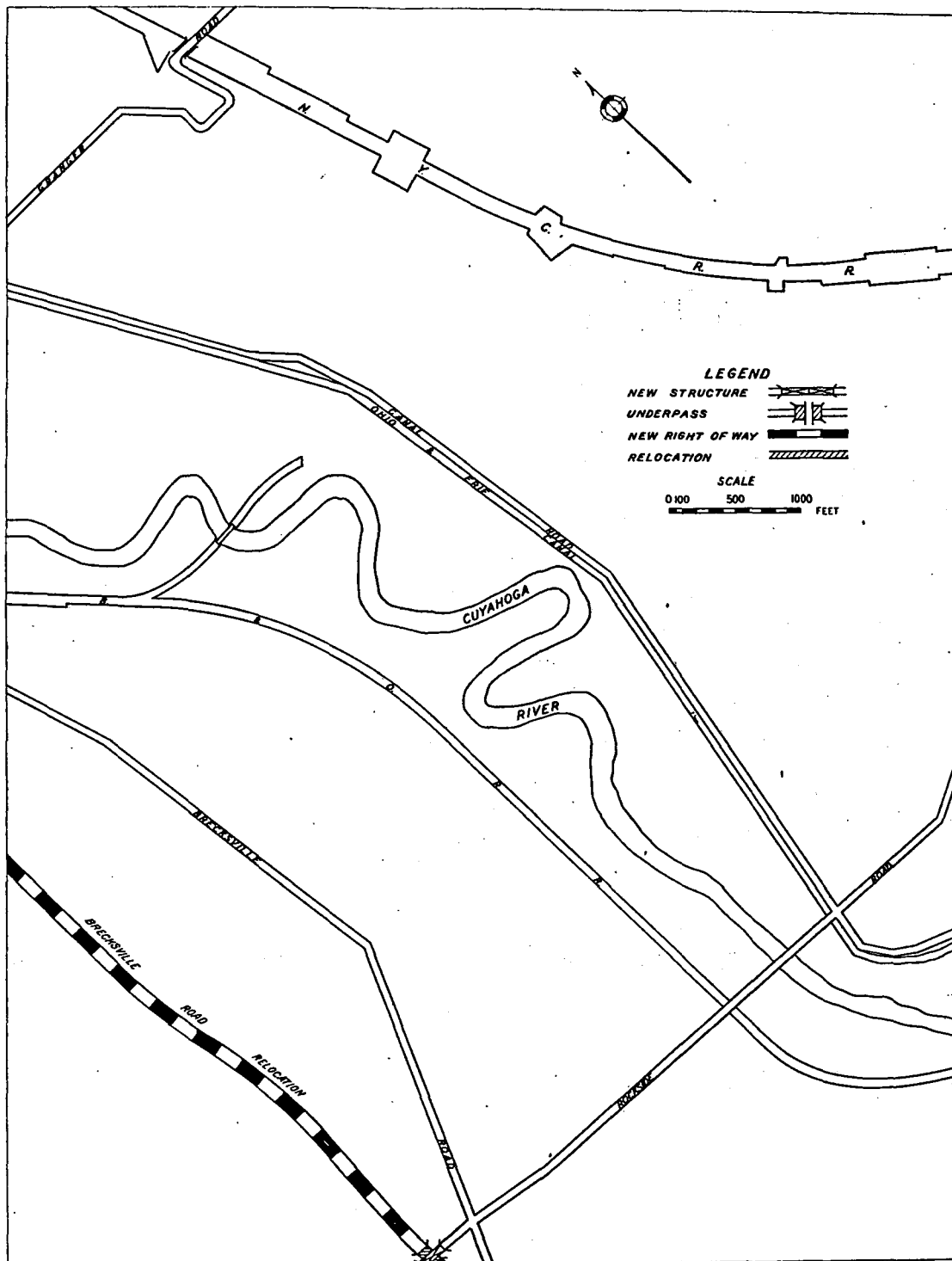


FIG. 8I.—South of area of Figure 8G, showing continuation of Brecksville Road relocation to Rockside Road

TOWN INDEX

Bay A B 4	Cleveland C D E F G H 2 3 4 5 6	Highland Heights I J 2 3	Miles Heights M 5 6	Rocky River C 4 5
Bedford H 1 6 7	Cleveland Heights H 3	Hurling Valley J K 4 5	North Olmsted A B 5 6	Seven Hills F 6 7
Beachwood I 4 5	Cuyahoga Heights F 3 6	Independence F G 7 8	North Royalton D E 8 9	Shaker Heights H 1 4 5
Berea C 7	Dover A B 5	Lakewood C D 4 5	Olmsted Falls B 7	Solon I J K 6 7
Brentsahl G 3	East Cleveland H 3	Lindale D 5	Orange I 4 5 6	South Euclid H 1 3 4
Brcksville F G 8 9	Euclid H 1 1 2 3	Lyndhurst I 4 5	Parkview C 6	Strongsville C D 8 9
Broadview Heights F 8 9	Fairview C 5	Mesple Heights H 6	Parma D E 6 7	University Heights H 1 4
Brooklyn D E 5 6	Garfield Heights G 6	Mayfield J 2 3	Parma Heights D E 6 7	Valley View G 6 7
Brooklyn Heights F 6	Gates Mills J K 3 4	Mayfield Heights J 3 4	Pepper Pike I J 4 5	Warrensville Heights I 5 6
Brookpark C D 6	Glenwillow I J 7	Middleburg C D 7	Richmond Heights I 2 3	Westview B 7
Chagrin Falls K 5 6				

ROAD INDEX

Abbey Ave. F 4	Cochran Road J 6 7	Granger Road G 6	Mastic Road C 5 6	South Woodland Road H J 4 5
Abbey Road D 8	Cort Road H 3	Grant Ave. F G 5	McCracken Road G H 6	Spencer Road C 5 6
Akron Road D E F 8	Cook Road A B 7	Grayton Road C 6	McCreery Road F 7	Sprague Road A B 7
Albion Road C D E 8	Coventry Road H 4	Green Road H 1 3 4 5	Memphis Ave E 5	Sprague Road D 7
Alexander Road H 7	Crossview Road F 6 7	Harper Road J 5 6	Miles Ave. G 5	Sprague Road E F 7
Anderson Road I 3	Denson Ave E 5	Harris Road F G 8	Miller Road G 9	State Road E 6
Avery Road F 8	Dentzler Road E F 7	Harvard Ave. F G H 5	Mill Road F G 8	St. Clair Ave. F G H 1 1 2 3 4
Babbit Road I 1 2	Depot Road C D 8	Harvard Road J 5	Miner Road J 2 3	Stearns Road A 6 7
Bagley Road C 7	Detroit Ave. D E 4	Hathaway Road G 6 7	Noble Road H 3	Stone Road G 7
Bainbridge Road K 7	Dover Center Road B 4 5 6	Hemlock Road G 7	Nobottom Road B 7	Stumpf Road D 6
Barrett Road B C 7	Drake Road C D 9	Highland Road I J 3	North Miles Road I J 6	Superior Ave. G 3
Barr Road F 9	Dunham Road G H 6 7	Hilliard Ave. C 5	North St. K 5	Taylor Road H 4
Bartlet Road I 6	East Blvd. G 5	Hillside Road F G 7	North Woodland Road I J 4	Tiedeman Road D 5 6
Barton Road A 6	East Road C 7 8	Hoffman Road E 6	Nottingham Road H 2	Tilby Road E 7
Bassett Road A 5 4	East 55 St. F 4	Holland Road C 6	Oakes Road F G 8	Triskett Road D 5
Bell Road K 5	East 71 St. G 5	Howe Road D 9	Park St. D 5	Troyan Road I 7
Banbow Road D 9	East 72 St. G 3	Hummell Road D 6	Parkview Road G 9	Turney Road G 5 6
Bennett Road D E 9	East 93 St. G 5	Hunt Road D 9	Pearl Road E 5 6	Union Ave. G H 5
Berea Road D 5	East 105 St. G 3 4	Hyatt Road F 8	Pettibone Road I J 7	Upson Road I 1
Biddulph Road E 6	East 152 St. H 2 3	Irish Road A 7	Pleasant Valley Road D E F 7	Usher Road B 7
Bishop Road I 2 3	East 200 St. H 2	Ivanhoe Road H 3	Porter Road A 6	Wagar Road C 5
Bliss Road I 1 2	Edgerton Road E F 9	Jackson Road J 5	Priam Road C 8	Wallings Road E F 8
Boston Road C D 9	Egbert Road H 7	John Road B 6	Prospect Road C 8 9	Walton Road H 7
Bradley Road A 5	Egypt Road H 7	Kennedy Ridge Road B 6	Richfield Road F G 8 9	Warner Road G 5 6
Bradley Road F 6	Elbow Road A 5	Kinaman Road G 4 5	Ridgewood Drive E 7	Warrensville Center Road H 4 5 6
Bramard Road I 4	Emery Road I 5	Lamg Road I 6 7	Riverside Drive C 5 6	Webster Road D 7 8
Broadview Road F 5 6	Engle Road C 6 7	Lake Ave. D 4	Riverside Road G H 8 9	West Blvd. E 5
Broadway F G H I 4 5 6 7	Euclid Ave. F G H 2 3 4	Lake Shore Blvd. G H I 1 2 3	Rocksaid Road F G H 6	West Road B C 7
Brook Road I 6	Fairmount Blvd. H 1 4	Lander Road J 4 5	Ruple Road B C 6	West 14 St. F 4
Brook Park Road C D E 6	Far Road C 7 8	Lee Road H 4 5 6	Sagamore Road H 7	West 25 St. F 4 5
Brookside Road F G 7	Fenkell Ave. K 6	Lewis Road B 6 7	Sawyer Road I 6	West 73 St. E 5 6
Bulkley Blvd. E 4	First St. C 7	Libby Road H 6	Schaal Road F 6	West 117 St. D 5
Butternut Ridge Road B 6	Fitch Road B 6	Liberty Road J K 6 7	Schady Road A B 7	West 130 St. D 5 6
Button Road H 6 7	Fitzwater Road G 8	Lindale Road E 5	Schreiber Road G H 7	White Road G 8
Cady Road E 9	Five Points Road C 6	Lorain Ave. D E 5	Scranton Road F 4	White Road I 2
Canal Road G 6 7	Forbes Road I 3	Lorain Road A 6	Settlement Road D 6 7 8	Whitney Road C D 8
Cannon Road J K 6	Ford Road I 3	Lloyd Road I 1	Shaker Blvd. G H 4	Wick Road E F 6
Carnegie Ave. G 4	Franklin Ave. E 4	Lunn Road C 9	Sheldon Road C 6	Wiese Road G 8
Cedar Point Road B C 6	Franklin Road K 6	Macedonia Road I 7	Short Road F 6	Wilson Mills Road I J 3
Cedar Road I J 4	French Road I 2	Madison Road A 6	Shurmer Road C 9	Wiltshire Road E F 9
Chagrin River Road K 6	Frog Road E F 8	Madison Ave. D 4	Smith Road D 6 7	Windfall Ave. G 5
Chestnut Road F 7	Front St. C 7	Main St. C 7	Snow Road E 6	Woodhill Road G 4
Cleague Road B 5	Fly Road D 7	Main St. E 4	Snowville Road G H 9	Woodland Ave. F G 4
Clark Ave. E F 5	Fulton Ave. E 4 5	Main St. K 5 6	Solon Road I J K 6 7	Wooster Road C 5
Cleveland St. K 5	Garfield Blvd. G 6	Marke Road B 8 9	South Moreland Blvd. H 5	York Road E 7 8
Clifton Blvd. D 4	Giles Road J 5			

INDEX OF NEW ROUTES

A. Lake front development F 3	K. Valley Road relocation and extension to Independence Road E F 6	S. South Moreland Boulevard extension I 5 K 6
B. St. Clair Avenue extension J 1	L. Independence Road relocation F 5	T. South Moreland-Shaker Boulevard connection J 4 5
C. Richmond Road-Euclid Avenue connection I 2	M. Brcksville Road relocation G 6	V. Rocky River crossing at the Lake front C 4
D. Belvoir Boulevard H 3	N. Brook Park belt route A B C F G H 6	W. Wolf Boulevard B 4
E. Belvoir Boulevard eastern branch H 3	O. South Miles Road relocation I 6	X. Hilliard Boulevard extension B 5
F. Belvoir Boulevard-Green Road connection H 3	P. Northfield Road-Warrensville Center Road connection H I 6	Y. Spencer Road C 5
G. Mayfield Road at Taylor-Euclid Avenue at Superior connection H 3	Q. Richmond Road extension to North Miles Road I 6	Z. Colorado Avenue-Powder Maker Road connection A 5
H. Shaker Boulevard extension G 4	R. Extension of Emery Road west to North Miles Road I 5	As. Pleasant Valley Road-Bagley Road connection D 7
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FIG. 9.
INDEX MAP
CUYAHOGA COUNTY

