

# A REPORT ON THE C.M.& H. BUS LINE

Ву

CYRUS HOSMER, JR.

and

WALTER HENRY RIDLEY

For

JOHN F. LOVELL

Concord, Mass.

December 12, 1924.

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	Partial Map of Mass38

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Ridley & Hosmer, Consulting Engineers.

> Concord , Mass. December 12,'24.

Mr. John F. Lovell, Treasurer,
Lovell Bus Lines, Inc.,
Maynard, Mass.

Dear Sir:-

We herewith submit the report on the Concord, Maynard, & Hudson Bus Line, which you requested in your letter of October 9, 1924.

This report is lacking in detail due to our inability to get exact figures concerning the operation of your bus line. We feel that more time and research work is necessary to get a real definite report.

Respectfully submitted,

Walter W. Ridley Cyros Horner, p.

#### COPY.

LOVELL BUS LINES, Inc.,

Maynard, Mass., October 9, 1924.

Mr. Walter H. Ridley,
Mr. Cyrus Hosmer, Jr.
Concord, Mass.
Dear Sirs:-

I have been asked by the Massachusetts Motor
Bus Club to furnish them with a complete report of the
Concord, Maynard, and Hudson Bus Line for ten months
beginning January 1,1924. Sometime ago you suggested
writing such a report; if you are still at liberty to
do this, I would appreciate your starting work as soon
as possible.

Very truly yours,
(Signed) John F. Lovell,
Treasurer.

REPORT.

REPORT ON THE CONCORD MAYNARD & HUDSON BUS LINE.

#### INTRODUCTION

#### Purpose.

The purpose of this report is to secure complete information concerning the Concord Maynard & Hudson Bus Line for a period of ten months beginning January 1st, 1924. Having done so, we have compiled this information in such a way as to determine the Bus Line's condition financially and otherwise.

#### Scope.

This report includes the history of the above named Bus Line, the territory in which it operates, and its standing in same. A general comparison with other bus lines is made. The report also considers the probleblity of the future success of this company and the present and future benefits to the communities in which it operates.

#### Method.

We inspected the various books of the company in person, thus obtaining actual figures which have to do with the operation of the busses. Several visits were

made to the company's headquarters, during which a survey of the property, equipment, and rolling stock was made. We have read extensively about bus line operation in magazines, from which various clippings have been taken and included in this report.

#### SUMMARY

#### Statement of Problem.

The problem in this report was to determine the financial condition of the C.M.& H. Bus Line as well as its standing in the communities served by it. Solution of the Problem.

A study of the problem has lead us to conclude that the standing of the bus line in the various towns was very favorable. The financial condition, however, is unsatisfactory, due mainly to very inefficient operation. This was discovered thru an investigation of the bookeeping methods of the company, of the bus-records of the company, and of the method of fare-collecting used by the company.

#### Recommendations.

We recommend the following:

- (1) that speedometers be installed on all busses;
- (2) that an accurate individual bus-, record be kept;
- (3) that a more standardized system of bookeeping be installed;
- (4) that a new system of fare-collecting be put into operation as explained on page 22 of this report.

#### BODY OF REPORT

#### History of the Company.

The Concord Maynard & Hudson Bus Line is an off-spring of the Woburn & Reading Bus Line, which was incorporated Aug. 21, 1919. This parent line operated busses in the towns of Woburn, Reading, Wakefield, Burlington, and Wilmington from September, 1919, until January 1, 1923, when it turned over its entire business, including busses and all, in these towns to the Eastern Massachusetts Street Ry. for a fair price paid by the latter.

During January 1923 the Woburn & Reading
line started running busses between Maynard and Acton,
and a month later from Maynard to Concord, having secured permission from the towns concerned to do so. In
April of the same year busses were operated from Concord through Maynard to Hudson. It was from these towns
that the line took its name, by which it has been known
ever since.

However, on February 18, 1924 the name was changed to Lovell Bus Lines Inc., the reason for this

being that under this name busses could better be run to towns other than Concord, Maynard and Hudson. An illustration of this was the extending of the main route to Clinton on September 8, 1924.

A brief summary of the growth of the parent company and its off-spring can be had by referring to Appendices A, B, C, D, and E, which are the statements of condition to date.

#### The Nature of the Company's Business.

Although the real name of the company has been discussed above, we will make all references to the C. M. & H. Bus Line. This company is now engaged in carrying passengers in the following towns: Concord, Concord, Junction, Maynard, Stow, Gleasondale, Hudson, Berlin, Clinton, South Acton, and West Acton. The main line, so-called, includes all but the last two towns. On this line busses run hourly from 6:30 A.M. to 11:30 P.M., from Maynard. On the Maynard-South Acton-West Acton line, they run according to certain designated hours according to time-table. Since to give the complete time-table here in the text would be very confusing and difficult, we have entered that as Appendix F, which can readily be referred to if desired.

Outside the scheduled trips there are special trips for (1) school-children; Two extra busses are needed each morning and afternoon to take high school pupils from Concord Junction to Concord and back, a distance of about two miles; the Town of Acton has contracted to use two busses each school day to bring pupils in the rural districts to the grammar schools, these busses covering about fifty miles a day.

Under (2) come the workmen specials which run in the morning, noon, and night to carry the mill-help to and from the mills in Maynard, South Acton, Hudson, and Clinton.

Then come (3) the misce Maneous special trips run for those who so desire for a nominal charge per mile. In the summer and fall months, busses are chartered to carry the Maynard baseball team and followers to their out-of-town games, for example, or picnic crowds to the beaches. Since these special trips occur usually on Saturdays or Sundays when the schools and sometimes the mills are closed, the rolling stock of the company is kept moving most of the time. During the winter, the lodge-meetings in the various towns help keep the stock arolling; traffic is heavier, and the schools are open

besides.

The minimum fare charged is 10% for everybody except school-children, who ride at half-fare on school-days, and workingmen, who may ride at slightly cheaper rates through the use of commutation tickets. At the western end of the line these tickets have proved to be very satisfactory, the percentage of workingmen using the busses there being greater than on the eastern end. However it was just recently that this priviledge was extended to the Concord end of the line. A fare-schedule, and sample tickets in Aps. G & H.

The method of fare-collection is to pay-asyou-enter the exact fare to your destination. No receipts
are given upon payment of fare, so the driver has to
depend solely upon the honesty of the passenger.

In order to operate busses in the various towns the company must get permission from the towns concerned each year. In some of these towns a bond must be deposited through the selectmen.

The busses are used for carrying the Boston evening papers to Maynard from Concord, thus getting the news which left Boston at 2:30 in the afternoon to Maynard by 3:30. There is, of course, a small charge for this service.

Whenever possible the busses meet the trains; this accommodation is greatly appreciated by the residents of the towns which have poor railroad service or none at all. The schedule of the busses is now so arranged so as to meet certain trains in the various towns each day barring unavoidable delays, but in doing this the regular service has to be slightly altered, and usually means making up the time lost in so doing.

During the winter, the busses are equipped with snow-plow attachments, by means of which the lines are kept open and schedules maintained. In the past, this has been done very satisfactorally with much less modern equipment than they now possess.

#### Facts about the Towns Served by the Bus Line.

An examination of the map (Appendix 0) will give the relation of the aforesaid towns to one another, and the routes the busses travel to reach them; a table le showing the relative population of these towns is also in the Appendix under the heading Appendix I. A few facts about these towns follow, each community being taken up separately.

Concord center marks the eastern terminus of the line. It is a town of 6500 inhabitants and is well served by the Fitchburg Division of the Boston & Maine Railroad, also by one train a day each way on the Lexington Branch of the same road. The Middlesex & Boston Street Railway run busses at certain scheduled hours from Concord to Arlington Heights, via Bedford and Lexington. These busses do not run as often as do those of the C. M. & H., but on certain trips both lines arrive at Concord at the same hour, thus giving practically continuous passage into Boston from Maynard and other towns west at a rate much cheaper than that of the railroad.

There are no mills or large business houses in Concord Center, it being largely a residential town. It does have a large high school, which necessitates running extra busses for carrying pupils.

In order to get some idea as to the geographical location of this town, we might add that Concord
is 18 miles directly west of Boston on the Mohawk Trail
automobile route. It is on the Sudbury and Concord Rivers.

#### CONCORD JUNCTION.

breaks up the 6 mile gap between Concord, this village breaks up the 6 mile gap between Concord and Maynard. It comprises about one-third the total population of Concord yet only about one-sixth of its area. As its name implies it is at the junction of two railroads: the Fitchburg Division of the Boston & Maine and the Lowell-Mansfield Division of the New York, New Haven & Hartford. However the service rendered by these railroads is comparatively poor, and the people are obliged to the busse Concord railroad-station to get good trains. Like Concord this village has one train a day each way on the Lexington Branch, which terminates at the Reformatory. The distance from Concord Center to Concord Junction is about two miles.

Concord Junction is a small industrial center, having a woolen mill, a chair factory, a foundry, a harness and leather goods shop, and a few other small plants.

#### MAYNARD.

This is a mill-town of some 7100 inhabitants.

The American Woolen Company has a large mill here and employs some 500 men and women of the town is

Branch of the Boston & Maine Railroad. Train service is not exceptionally good, however, the people using South Acton and Concord stations for going to Boston or more distant points. This is made possible since busses run from Maynard to South and West Acton as well as to Concord, Hudson, and Clinton.

The headquarters of the Company are located in the town of Maynard, this being the central point.

STOW.

One of the connecting links between Maynard and Hudson is the town of Stow of 1100 people. This village has no station on the Marlboro Branch of the Boston & Maine, the nearest one being Lake Boon about three miles distant. Hence the busses are practically the only public carrier the residents of Stow have.

Stow is three miles west of Maynard, and, on what was once known as the Fitchburg Turnpike.

#### GLEASONDALE.

This is a very small village and part of the town of Hudson. It has railroad-stations on two Boston & Maine lines (Marlboro Branch and Central Massachusetts), but the trains are few and far apart; here again the busses are the main means of travel as they

run at least hourly towards Hudson and Maynard.

There is a small factory located here in Gleasondale, which accounts for some of the passenger traffic handled in this vicinity.

#### HUDSON.

Hudson is another industrial center, having a rubber factory as well as some small plants besides. Like Gleasondale it is on the same two raileroads, enjoying the same kind of service. The Boston & Worcester Electric Air Line have a branch line extending from Marlboro to Hudson which makes good connections with the C.M.& H. busses at the latter terminal.

This town has a population of about 7600, and is 6 miles from both Maynard and Clinton.

#### BERLIN.

A very small town is this village of Berlin. It is of about 900 inhabitants, has no industries, and one railroad-station. It depends largely upon the C.M. & H. busses for its transportation.

#### CLINTON.

This is by far the largest town served by the

C.M.& H.Bus Line. It has many business houses and manufacturing establishments. Two Boston & Maine Railroads.
enter the town, but only one competes with the bus line
in any way; that is the Central Massachusetts, which
takes in such towns as Berlin, Hudson, and Gleasondale.
This railroad also includes Worcester, hence making it
possible to get from that city to towns east served by
the busses.

It is at this Clinton end of the line that working-men's commutation tickets are used mostly.

SOUTH ACTON.

The town of Acton includes South, West, East, and North Acton and Acton Center. The bus line just operates in the first two of the above named districts. South Acton is a mile and a half from Maynard in a north-easterly direction; it is on the Fitchburg Division and Marlboro Branch of the Boston & Maine and has pretty good train service. There are two mills in this village.

WEST ACTON.

This town is also on the Fitchburg Division, but does not have as good service as does South Acton. It is more of a residential town and borders the South

Acton and Boxboro. The good service rendered by the busses insures good transportation to the West Acton townspeople as well as to the rural inhabitants.

#### The Company's Equipment and Facilities.

At present the company owns 11 busses, 2 trucks, and 2 taxies, and has complete facilities for housing and repairing same. Most of the motor-busses are new and modern and carry an average of 25 passengers, being typical of the type used for short hauls. The company has a variety of truck-makers, as can be seen by refering to Appendix J, which lists the trucks and various facts concerning them. We have attempted to show the type of bus that predominates by a few cuts, which we entered in the Appendix under K.

The repair and machine shop is very well equipped, so that no work on the trucks has to be done outside. Overhauling is done here as well as all emergency cases; brakes are relined and valves ground. Batteries are even repaired and charged. There is a compressed air tank for inflating tires. Plenty of gas, oil, grease, and alcohol are kept on hand as are also repair parts, tires, tubes, and chains. The company does all its own painting and also outside paint jobs.

In the rear of the machine shop is the boiler-room, which supplies the entire building with steam=heat. The building covers about 90,000 square feet floor space and is a single story structure about 25 feet high, hence requiring a large amount of heat. The temperature does not have to be kept very high, but at point so as to keep the trucks warm, thus insuring quick starting in cold weather. The company has housing facilities to hold at least 25 busses. The garage is of fire-proof construction, being made of brick with a fire-wall inside dividing the bus-storing quarters from the machine shop and the office. Fictures inside and outside were taken and will be found under Appendix L.

#### Officers.

The officers of the company include the following:

Mary C. Lovell, President,

John F. Lovell, Treasurer,

Ethel M.D. Fayton, Secretary.

These officers are elected for term of one year.

Labor.

The company employs 9 men as drivers of

the busses, 2 men as repairmen, 1 for general duty, 1 foreman, and 1 bookeeper, a total of 14; all work nine hours a day with the exception of the bookeeper who works six. None of the employees belongs to labor unions,

#### Insurance.

All of the busses are insured against public liability, property damage, and accident, the cost of which amounts to a very large sum each month. The insurance company requires that each driver carry with him a pad in the form of a brief questionnaire to be filled out by persons injured in or witnessing an accident. Upon the driver's arrival at the company's headquarters, a more detailed questionnaire is filled out in duplicate, the original being sent to the insurance company's claim division, while the other is retained by the bus line. Samples of these forms are given in Appendix M.

#### Operation.

The company has rendered very good service to the towns which it serves, hence in this respect the operation is efficient. As regards the cost of operation,

it is a difficult problem to determine whether the maximum benefits to the company are being obtained for not. We have had access to all the figures (accounts, mileages, receipts, expenses, etc.) that were available at the company's headquarters, and from these have attempted to get a definite relation between cost per bus-mile and income per bus-mile, but the necessary figures for this relation could not be obtained except in round numbers. As such, they were of no definite value, although we have based our conclusions and recommendations on what we did obtain in the line of figures. Appendices A, B, C, D give the statements of condition of the original company and the present company upto January 1, 1924. Appendix E gives the same on November 1, 1924. A study of D and E shows that both Notes Payable and Accounts Payable have increased rather unproportionately compared to increases in the other items. The Accounts Receivable have shown a small increase, however. The most outstanding item is that of surplus which has decreased by an amount of \$2900. It is out of the surplus that the loss from operation is taken, or which is increased when there is a

profit from operation; hence from these statements it would appear that the company is operating at a deficit.

We have compared the income and cost per month before the extension to Clinton was put into effect with the same afterwards, and find that it has benefited the company rather that placed an increased burden upon it.

Thus the efficiency of operation from the company's standpoint is not very favorable, there being a great chance for improvement.

#### CONCLUSIONS

Maynard, & Hudson Bus Line, we conclude that it has established a favorable reputation in the towns which it serves; its equipment, rolling stock, repairing and housing facilities are in first-class condition; its financial standing is non-too-favorable, due to the inefficiency of operation, which in turn is due to the comparative newness of using the motor-bus as a means of transportation; the prospects of future success by the company are favorable.

#### RECOMMENDATIONS

We therefore recommend that:

- (1) speedometers be put on all busses and kept in running condition;
- (2) an accurate individual bus record be kept (preferably on a printed form) to include such items as gas, oil, miles, drivers, runs, receipts, number of passengers carried, repairs, tires, and remarks.
- (3) a more standardized system of bookeeping be installed to surplant the very inefficient system now in vogue.
- (4) the pay-as-you-enter system of fare-collecting be abolished, and a system by which a printed check be given the passenger upon entering the bus showing just where he got on, this to be surrendered by him to the driver when his destination is reached, and the proper fare paid upon leaving.

Respectfully submitted,

Cyrus Hosmer, Jr. Walter & Ridley. APPENDICES.

# Appendix A.

C. D. 182. 6-24-75,000 A 298

3

1

# ABSTRACT OF CERTIFICATE OF CONDITION UNDER THE

Name of Corporation, Wohurn and Reading Bus Line, Inc.							
Location, 2 Second Street., Wohurn,							
Incorporated under the laws of							
When Certificate was filed,		org. Au	18 ° ST * T3.	19.			
Date of Annual Meeting,							
Date of Statement,	ec-31,192	0					
	PREFERRED	STOCK	СОММО	ON STOCK			
Capital stock authorized with par,	none			-000			
Capital stock issued with par,							
Capital stock paid in with par, .  Par value of shares,				*100			
Number of shares,				50-			
Number of shares authorized without par,			,				
Number of shares paid in without par,							
ASSETS		LIAF	BILITIES				
Machinery	300	Mortgages .	x (include only par value)				
Autos, trucks and teams  Notes receivable	7624-	Reserves .	e				
Cash	50	Profit and lo	Shares				
Patent rights	3576						
Profit and loss	\$11550	TOTAL		s 11550			

### Appendix B.

C. D. 182. 6-24-75,000 A 298

5

# ABSTRACT OF CERTIFICATE OF CONDITION UNDER THE

Name of Corporation,	W &	R Bus Ti	ne.					
Location,								
Incorporated under the laws of								
When Certificate was filed,	March leb. 18,							
Date of Annual Meeting,								
Date of Statement,	ec.31,19	72.I						
	PREFERR	ED STOCK	СОММО	ON STOCK				
Capital stock authorized with par,								
Capital stock issued with par,								
Capital stock paid in with par, .	Capital stock paid in with par, . NO CHANGE							
Par value of shares,								
Number of shares,								
Number of shares authorized without par,								
Number of shares issued without par,								
Number of shares paid in without par,								
ASSETS			ILITIES					
Real estate	\$	shares with	(include only par value) .	\$_5000				
Machinery		Mortgages .		3000				
Merchandise	400 -	Accounts pay	able	1878				
Furniture, fixtures and tools	9700 -	Notes payable		3145				
Autos, trucks and teams	3100	Reserves						
Notes receivable		Surplus	7					
Accounts receivable	82 -	Profit and los	s					
Cash			Shares					
Securities		without pa	r value					
Patent rights								
Trade-marks	284I -							
Good will								
TOTAL	\$13023-	TOTAL		\$ 3093				

### Appendix C.

C. D. 182. 6-24-75,000 A 298

3

# ABSTRACT OF CERTIFICATE OF CONDITION UNDER THE

Name of Corporation,	.& R.B	us	Line I	nc.		
Location,						
Incorporated under the laws of		5				
When Certificate was filed,	March	10,	1983			
Date of Annual Meeting,	Jan.	16.,	u			
Date of Statement,	Dec. 3	1,1	922			
	PREFE	RRED	STOCK	СОММ	ON STOCK	
Capital stock authorized with par,						
Capital stock issued with par,						
Capital stock paid in with par, .			IO CHA	NGE		
Par value of shares,						
Number of shares,						
Number of shares issued without par,						
Number of shares paid in without par,						
ASSETS			LIABI	LITIES		
Real estate	\$		Capital stock shares with	(include only par value) .	\$ 5000	_==
Merchandise			Mortgages .		4400	<u> </u>
Furniture, fixtures and tools	400		Accounts paya		15057	92
Autos, trucks and teams	33451	SO	Notes payable Reserves		5451	47
Notes receivable			Surplus	• • • • • • •	4615	06
Accounts receivable			Profit and loss			91010
Cash	17	0.5		Shares		7. 34
Securities			without par			
Patent rights						
Trade-marks	1500					
Good will			man A			
Profit and loss	\$35360	05	TOTAL .		e7 F C O	
	\$35368	05	TOTAL .		\$35368	05

C. D. 182. 6-24-75,000 A 298

4

# ABSTRACT OF CERTIFICATE OF CONDITION UNDER THE

Name of Corporation,	Lovell B	as Line	Inc.				
Location, Great	t Road,	Maynard,	lass.				
Incorporated under the laws of	Changed :	name to	L.B.L.,	Feb.18,	,192		
When Certificate was filed,	Apr. 29	1924					
Date of Annual Meeting, Mar. 21. "							
Date of Statement,	Dec. 3	1, 1923/					
	PREFERRI	ED STOCK	СОММ	ION STOCK			
Capital stock authorized with par,							
Capital stock issued with par,							
Capital stock paid in with par,		NO CHAN	<u> </u>				
Number of shares,							
Number of shares issued without par,							
Number of shares paid in without par,							
ASSETS  Real estate  Machinery  Mcrehandise Mot. Sup.  Furniture, fixtures and tools  Autos, trucks and teams  Notes receivable  Accounts receivable  Cash  Securities Un. Insurance	\$12935 0 1462 9 2041 7 540 - 37178 2 8871 4 228 44 1973 7	Capital stock shares with particles of the counts paya and the counts payable reserves	ble	\$.5000 5442 .21243 3423 .22122	72 94 33 70		
Patent rights		without par	value				
Good will		-					
TOTAL	\$ 57231 6	TOTAL .		\$57231	69		

C. D. 182. 6-24-75,000 A 298

# ABSTRACT OF CERTIFICATE OF CONDITION UNDER THE

# BUSINESS CORPORATION LAW OF MASSACHUSETTS

Name of Corporation,	Lovel B	us	Lines	, Inc.,		
Location,	Maynar	d.,	Nass			
Incorporated under the laws of						
When Certificate was filed,						
Date of Annual Meeting,						
Date of Statement,	From J	an.	1924	To Nov/	1924.	
	PREFE	ERREI	STOCK	СОММ	ON STOCK	
Capital stock authorized with pa	r,					
Capital stock issued with par,						
Capital stock paid in with par, .				7-		
Par value of shares,						
Number of shares,						
Number of shares authorized without par,						
Number of shares issued without par,						
Number of shares paid in without par,						
ASSETS	3		LIA	BILITIES		
Real estate	\$13293	59	Capital sto	ck (include only	\$ 5000	
Machinery	2316		Mortgages	in par value) .	\$	
Merchandise Mat. 4 Sup	2317	89		yable	7697	83
Furniture, fixtures and tools	190	70	15 5 5 5 5		23502	65
Autos, trucks and teams	43884	19	2			
Notes receivable	7066	07	Surplus .		19215	77
Accounts receivable	1066	03	Profit and le	ngg	01021	86
Cash		76	2.020 4114 1	Shares		
Securities Unfr. \$85,	2863	99	without p	ar value		
Patent rights FARE SOXES	350		J.F	/ LoveLL	6021	50
Trade-marks	7.6	15		. of Acc		86
COORWIE . PETTY Lash.		45				00
Profit and loss	3051	_71				
TOTAL	\$69590	61	TOTAL		\$69509	61

5

#### Appendix F.

#### FRONT

Maynard to South Acton
Lv. Maynard 6 15 7 00w 8 00 9 30
12 00 1 30w 2 15 400w 500w 6 00
6 30w 8 00 10 15w 12 00 Sat. & Holiday

South Acton to Maynard Lv. So. Acton 6 45 7 45w 8 15 9 45 12 15w 2 30 4 45w 5 45w 6 15 7 15w 8 15 11 00w

West Actom to Maynard
Lv. W Actom 7 30 1 50 4 30 5 30
7 00 10 30

Sundays
Lv. Maynard 8 35w 9 30w 11 00
1 30w 2 30 4 30 6 30w 7 30 8 00
9 00w 11 20

Lv. So, Acton 9 00w 10 00w 11 15 2 45 4 45 7 15w 7 45 11 30

West Acton to Maynard
Lv. W Acton 9 00 10 00 200 700 9 30

KRYPTOK GLASSES THE INVISIBLE BIFOCALS CM&H

Bus

Service

Compliments of

# LOUIS PEEL Optometrist

HUDSON OFFICE HOURS
DAILY EXCEPT FRIDAYS
Open Thursday & Saturday Evenings

MAYNARD OFFICE HOURS
MONDAY EVENING
FRIDAY all day and Evening
Make your appointment this
A N HODGESS

### REAR.

In Effect Sept. 7, 1924, Concord to Maynard leave Concord at 6 30 8 00 and hourly to 11 00 Maynard to Hudson leave Maynard at 550 6 20 7 30 and hourly to 10 30 Hudson to Berlin leave Hudson at 625 7 10 and hourly to 10 10 Berlin to Clinton leave Berlin at 6 40 7 30 and hourly to 10 30 Clinton to Berlin leave Clinton at 6 00 and hourly to 11 00 Berlin to Hudson leave Berlin at 6 20 and hourly to 10 20 Hudson to Maynard leave Hudson at 6 40 and hourly to 10 40 11 00 Maynard to Concord leave Maynard at 6 10 7 30 and hourly to 10 30 NOTES

For Party Work call Maynard 36-3

w-Goes to West Acton

Bus leaving Maynard at 1230 arrives
in Hudson at 100 P.M

From Hudson 1140 and 440 for
Maynard leaves at 1200 and 500



You read and look afar with equal facility, but no one observes that you are wearing bifocals because the usual "lines" are absent. Wear the genuine KRYPTOKS awhile and you will never willingly return to oldstyle bifocal glasses.

### Appendix G.

From	Concord	Concord Junct.	Maynard	Stow	Gleasondale	Hudson	Berlin	Clinton	South Acton	West Acton
Concord	0	10	20	30	40	50	60	80	30	35
Concord Jct.	10	1	15	25	35	45	55	75	25	30
Maynard	20	15		10	20	30	40	60	10	15
Stow	30	25	10	<b>^</b> -	10	20	30	50	20	25
Gleasondale	40	35	20	10	-	10	50	40	30	35
Hudson	50	45	30	20	10		10	30	4.0	45
Berlin	60	55	40	30	20	10		20	50	55
Clinton	80	75	60	50	40	30	20		70	75
South Acton	30	25	10	20	30	40	50	70		10
West Acton	35	30	15	25	35	45	55	75	10	

Fare-schedule of the C.M.& H.
Bus Line in cents.

#### Appendix H.

TWELVE RIDE TICKET - 60 CENTS

BETWEEN

CLINTON SQUARE and ACRE CORNER

Lovell Bus Line, Inc.

THIS TICKET IS GOOD FOR TWELFTH RIDE

6 7 8 9 10 11

Workman's Special Ticket

This special ticket is issued at a special price

12 RIDES FOR \$1.80 For 200

Any FARE

Good Only Between Maynard and Cleasondale

Will only be accepted for passage on working days

THIS TICKET IS GOOD FOR TWELFTH RIDE

C. M. & H. BUS LINE CO.

7 8 9 10 11

Twelve Ride Ticket - 60 cents

HUDSON SQUARE to McELWAIN FACTORY

GOOD IN EITHER DIRECTION

Good only on trips to and from factory, morning, noon and night

Lovell Bus Line, Inc.

THIS TICKET IS GOOD FOR TWELFTH RIDE

6 7 8 9 10 11

## Appendix I.

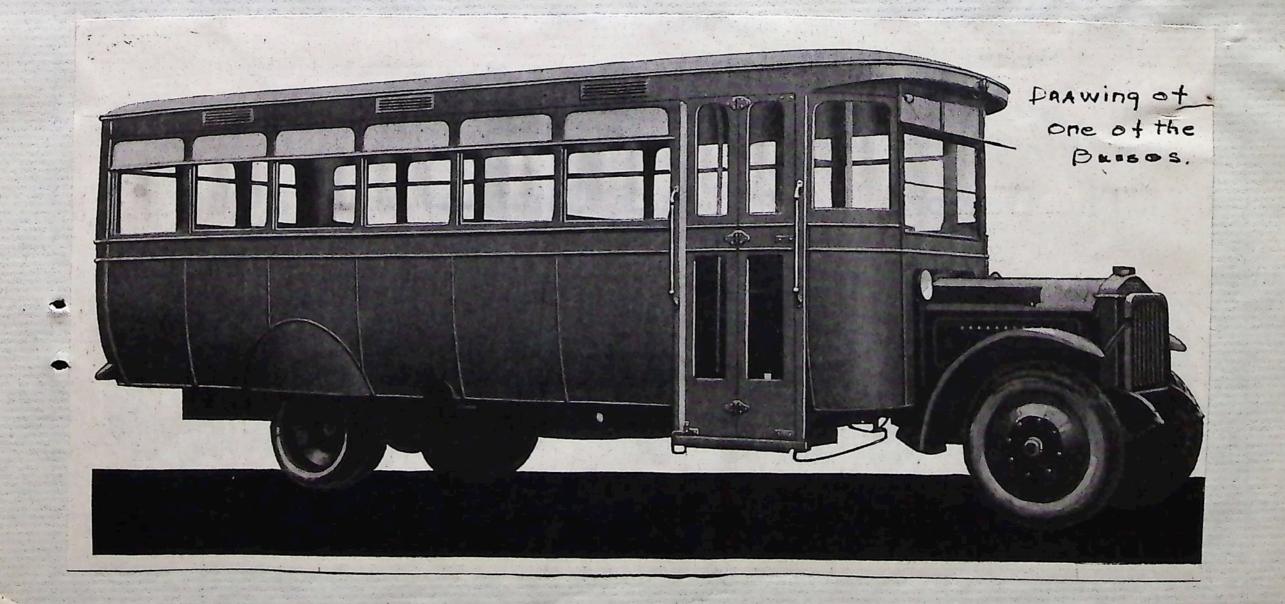
# Population of the towns in which the C.M.& H. Bus Line operates. (Taken from 1920 Census)

CONCORD	6461
MAYNARD	7086
HUDSON	7607
STOW	1101
BERLIN	. 868
CLINTON	12979
ACTON	2162

	KIND OF TRUCK	Truck No.	YEAR	PASSENGERS SITTING CAP	Cost	REMARKS
1.	GARFORD		1924		\$4600	
2.	GARFORD	2.	1923	30	5135.25	IN good condition, Very large,
3.	GARFORD.	Э.	1923	30		
4.	WALKER JOHNSON	5.	1922	25	4000	<i>"</i> "
5.	WALKERJOHNSON	8.	1922	25		<i>"</i> "
6.	REPUBLIC	7.	1923	25		
. 7.	PIERCE ARROW	10.	1918	22		Quite old, used solely for school Children
8.	INTERNATIONAL	11.	1923.	14	2609.67	Very small, for special trips.
9.	REO	1.	1924	122	5150	Very new, comfortable, & modern
10	REO	2.	1924	122	5150	" " " " " " " " " " " " " " " " " " "
11.	REO		1925	122		
12.	PIERCE ARROW	12	1918	TAXI	800	Quite old, but good looking.
13.	FORD	14	1924	TAXI	600	New, Not used much yet
14.	GARFORD	13.	1922	TRUCK	1900	Towing and snowplowin winter.
15	FORD	22.	1922	TRUCK	250	Service car, gets parts from Boston
		7	otols	259	49,292.92	

Appendix K.





INSIDE REPAIR SHOP



INSIDE GARAGE



ANOTHER VIEW



General Htility Truck.



## Woburn=Reading Bus Line, Inc.

In case of any accident, HOWEVER SLIGHT, in connection with or near your bus, to persons or property, you will AT ONCE render all necessary assistance, and AT ONCE obtain the names and residences in full of the persons injured and of ALL WITNESSES on or near the bus, then fill out this report and send it in without delay. You must answer fully and accurately the following questions, and also state all other particulars. If two busses are concerned in the accident both drivers must report. All disputes and troubles (which occur on your bus) must be reported as accidents. Any neglect to report will be a cause of discharge. Also report at once upon this blank any defect in any bus or street liable to cause accident.

#### USE INK IN WRITING REPORT

1.	Date of Accident, 192	Date of Report,	192
<ol> <li>2.</li> <li>3.</li> </ol>	Hour of Accident, o'clock,  Place of Accident, city or town and give street number.  On line running from	M. to	
4.	Name and number of car, open or Number of passengers on closed.	car. Number of names obtained	ed.
3_			
<b>5</b> .	Weather—Fair or Stormy.	Roads—Wet or Dry.	
6.	Name, age and address of persons injured or owner of property.		
7.	(Nature of Injury.		
8.	Exact place occupied by Driver and what doing just before and at moment of accident.		
9.	Ditto of person or property injured.		
10	Was the Bus standing or moving just before and at moment of accident? If moving, how fast.	Grade { Up Level Down	
_			

Residence  Driver to state how accident happened and all about it fully, and all that was said and done by him and the person injured, or owner of property.				
Driver's Name	No.			
Residence				

Driver's Name

NOTICE: Accidents which involve personal injuries, no matter how slight, should be reported by telephone to-

BOSTON CLAIM DIVISION
153 Milk Street
BOSTON, - MASS.

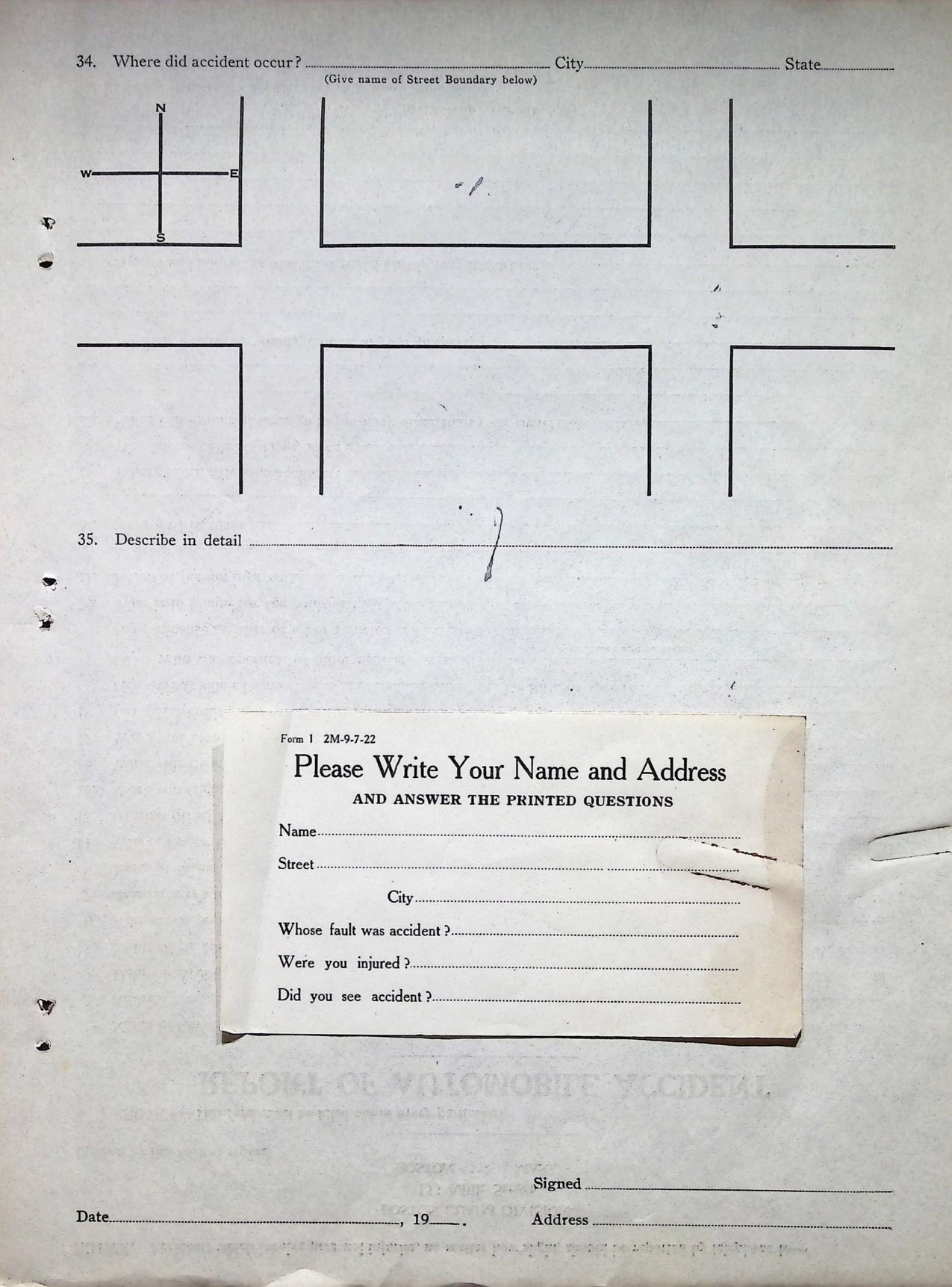
Confirm by this written report.

しは「

NOTICE—This form must be filled out in every particular.

## REPORT OF AUTOMOBILE ACCIDENT

1.	Name of Owner		Policy	No	
2.	Address	City	State		
3.	Date of Accident				
5.	Name of person in charge of machine			6. Age	
61/3	Address of person in charge of machine				
7.	Manufacturer's number of vehicle		8. Engine num	ber	
9.	Name of Manufacturer		10. License nu	mber	
11.	Was operator licensed? 12. For				
13.	In what direction was the vehicle going?		14. Rate of spee	ed?	
15.	Were you engaged in public or private comp	petition or record run o	or run against time	?	
16.	What side of street?				
17.	Were you blowing a horn or sounding a go	ong at the time?	18. Were all	l your lights lit?	
19.	(a) If a collision, in what direction was o	ther vehicle going?			
	(b) What side of street?	(c) Rate of	speed?		
	(d) Who was operator of other vehicle?		(Name and Address)		
	(e) License number of other vehicle?		(1,2110, 210, 110, 110, 110, 110, 110, 11		
20.	Who is to blame for the collision?				
21.	Name of person injured		22. M	farried or single	
23.	Address	(HELL ) (15) (15) (HELL )			
24.	Nature of injuries				
25.	Where taken after the accident?				
	Was doctor called? If so, who?				
28.	What was extent of damage to property oth	er than your own?			
29.	Owner's name				
31.	To what extent was damage done to your p	property?			
32.	Cause of accident				
33.	Names and addresses of witnesses. (This is				
-					
-					



## PLACE OF ACCIDENT

	West	
South		North
	East	

Fill in names of streets nearby, and mark exact spot at which the accident happened.

Mark person or team by a circle (O). Mark location of bus by arrow (—>)

which should also show direction in which bus was going.

Witnesses. (Business and Residence,) Name and Address of those on car or near scene of accident.

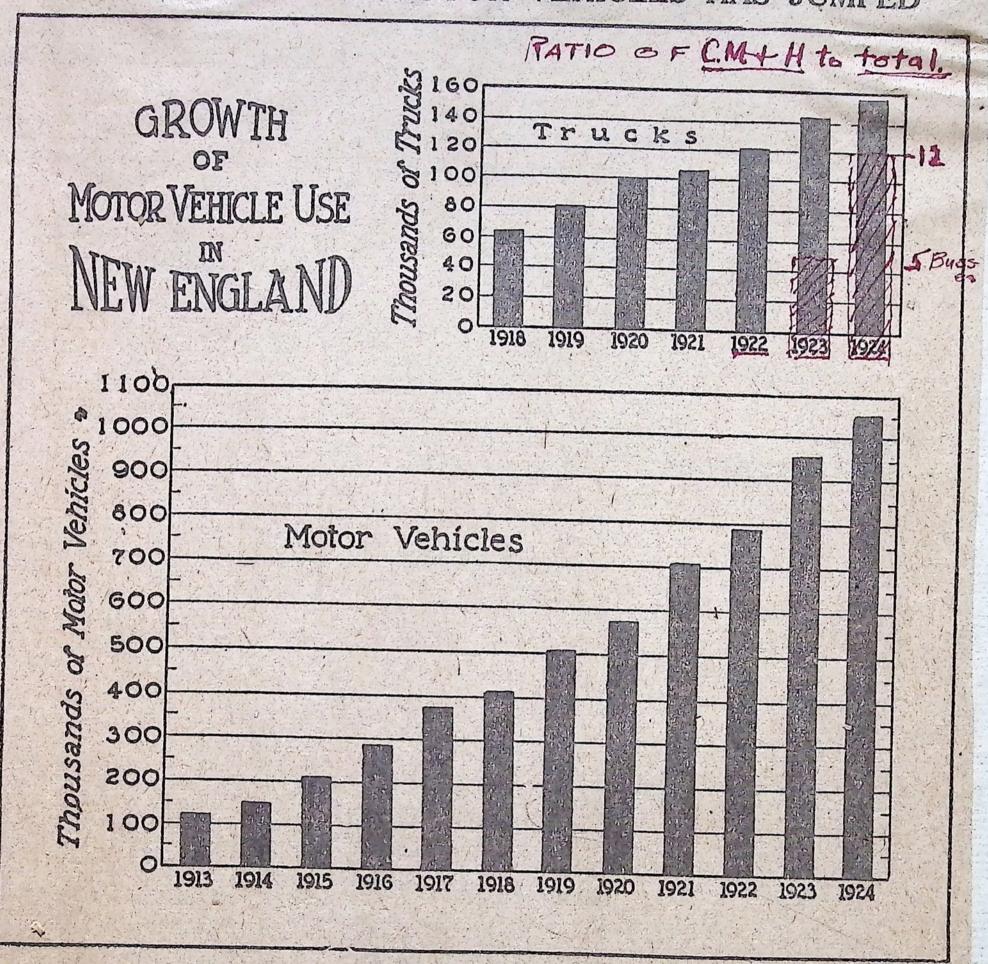
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2nd	8th
rd	9th
ė (Tarantara) ir nastaras (Tarantara) ir nastaras (Tarantara) ir nastaras (Tarantara) ir nastaras (Tarantara)	
4th	10th
4tn	1001
5th	11th
- The state of the	
6th	12th

## ACCIDENT

The	Driver No Driver must not write under t	his
Injured Preson	}	
Injury_		
Road _		
Date of	Accident	_192

### THE BOSTON HERALD DECEMBER

VEHICLES HAS JUMPED



In seven years the motor vehicles in New | an investment of \$500,000,000. Problems cre-England, including trucks, have multiplied two and one-half times, as the above chart shows. Foday the number of commercial cars is 158,000, and of all motor units 1,050,000. At day and Tuesday at the Copley-Plaza. conservative market valuation they constitute

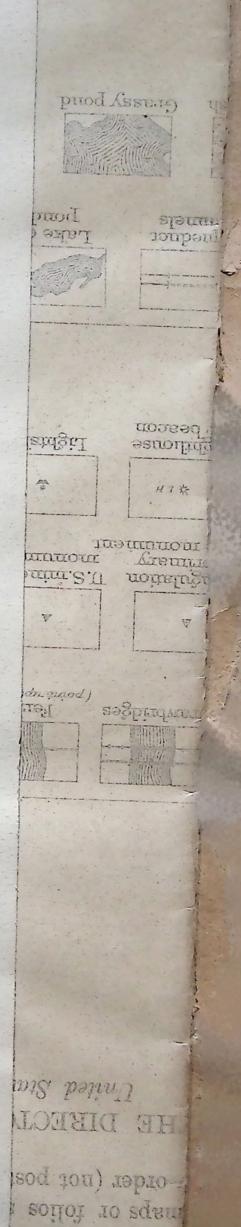
A

ated by the great increase in the number of motor vehicles will be discussed at the New England motor transport conference next Mon-

A survey of the Hawaiian Islands was begun the resulting maps are being published on a scale of the features shown on these atlas sheets or melassed in three groups—(1) water, including seas, classed in three groups—(1) water, including seas, ing mountains, hills, valleys, and other elevations ing mountains, hills, valleys, and other elevations sions; (3) culture (works of man), such as towns, railroads, and boundaries. The conventional signal of these features are shown below, with explanations.

appear on some earlier maps.

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APPENDIX Q



