

MANCHESTER
CITY GOVERNMENT.

1890.

MAYOR.

DAVID B. VARNEY.

CITY CLERK.

NATHAN P. KIDDER.

CITY AUDITOR.

JAMES B. STRAW.

AUDITOR'S CLERK.

ALLAN E. HERRICK.

CITY TREASURER.

SYLVANUS B. PUTNAM.

MANCHESTER CITY GOVERNMENT.

COLLECTOR OF TAXES.

GEORGE E. MORRILL.

DEPUTY COLLECTOR OF TAXES.

EDWIN C. PAUL.

CITY SOLICITOR.

EDWIN F. JONES.

CITY MESSENGER.

JOHN A. BARKER.

CITY PHYSICIAN.

CLARENCE W. DOWNING.

CITY ENGINEER.

WINFRED H. BENNETT.

PRESIDENT OF COMMON COUNCIL.

JOHN F. FROST.

CLERK OF COMMON COUNCIL.

JESSE B. PATTEE.

LIST OF OFFICERS.

5

SUPERINTENDENT OF WATER-WORKS.

CHARLES K. WALKER.

CLERK OF WATER-WORKS.

ARTHUR E. STEARNS.

ALDERMEN.

Ward 1. — George W. Bacon.

Ward 2. — Frank A. Lane.

Ward 3. — John A. Bartlett.

Ward 4. — W. Byron Stearns.

Ward 5. — John J. Holland.

Ward 6. — William P. Farmer.

Ward 7. — David Farmer.

Ward 8. — James F. Baldwin.

MEMBERS OF COMMON COUNCIL.

WARD 1.

John P. Mullen.
Roscoe Dyer.
Henry P. Hunter.

WARD 3.

Frank D. Thorp.*
George W. Reed.
Walter H. Wright.

WARD 2.

Charles A. Carpenter.*
Alfred D. Maxwell.
William M. Butterfield.

WARD 4.

George C. Chase.
Desire Laneville.
Clarence R. Merrill.*

*Resigned.

WARD 5.

David E. Guiney.
William J. Freeman.
Thomas P. Riley.

WARD 6.

Joseph Quirin.
Edward A. Plummer.
Thomas Walker, Jr.

WARD 7.

John F. Frost.
Edson S. Heath.
Irving L. Campbell.

WARD 8.

Henry Schimmel.
Joseph N. Lacourse.
Charles S. Cousins.

 JOINT STANDING COMMITTEES.

On Finance. — The Mayor and Alderman Stearns; Councilmen Chase, Walker, Jr., and Heath.

On Accounts. — Aldermen Bartlett and Holland; Councilmen Hunter, Frost, and Lacourse.

On Claims. — Aldermen Baldwin and W. P. Farmer; Councilmen Butterfield, Campbell, and Wright.

On Streets. — Aldermen Stearns and Bartlett; Councilmen Maxwell and Quirin.

On Sewers and Drains. — Aldermen Lane and Baldwin; Councilmen Quirin, Merrill, and Maxwell.

On Lighting Streets. — Aldermen Bartlett and D. Farmer; Councilmen Walker, Jr., Reed, and Butterfield.

On Lands and Buildings. — Aldermen D. Farmer and Bacon; Councilmen Frost, Guiney, and Mullen.

On Fire Department. — Aldermen Lane and Baldwin; Councilmen Cousins, Plummer, and Dyer.

On Commons and Cemeteries. — Aldermen Bacon and Lane; Councilmen Wright, Heath, and Hunter.

On Public Instruction. — Aldermen Baldwin and Holland; Councilmen Laneville and Schimmel.

On Water-Works. — Aldermen W. P. Farmer and Stearns; Councilmen Freeman, Reed, and Cousins.

On City Farm. — Aldermen Baldwin and W. P. Farmer ;
Councilmen Campbell, Riley, and Chase.

On House of Correction. — Aldermen Bartlett and Holland ;
Councilmen Lacourse, Mullen, and Merrill.

On Military Affairs. — Aldermen Holland and Baldwin ;
Councilmen Plummer, Dyer, and Schimmel.

STANDING COMMITTEES OF BOARD OF ALDERMEN.

On Enrollment. — Aldermen Bacon and Bartlett.

On Bills on Second Reading. — Aldermen Baldwin and W. P.
Farmer.

On Market. — Aldermen Bartlett and Lane.

On Marshal's Accounts. — Aldermen Stearns and Holland.

On Licenses. — Aldermen Bacon and W. P. Farmer.

On Setting Trees. — Aldermen Lane and Stearns.

On Special Police. — Aldermen D. Farmer and Bacon.

STANDING COMMITTEES OF THE COMMON COUNCIL.

On Election Returns. — Councilmen Frost, Walker, Jr., and
Lacourse.

On Bills on Second Reading. — Councilmen Reed, Cousins,
and Freeman.

On Enrollment. — Councilmen Wright, Campbell, and
Merrill.

POLICE DEPARTMENT.

Judge of Police Court.

Nathan P. Hunt.

Associate Justice of Police Court.

Isaac L. Heath.

Clerk.

John C. Bickford.

City Marshal.

Horatio W. Longa.

Assistant Marshal.

John F. Cassidy.

SCHOOL COMMITTEE.

David B. Varney, *ex officio* Chairman.James E. Dodge, *Clerk.*

WARD 1.

Charles H. Manning.
John L. Sanborn.

WARD 2.

Benjamin C. Dean.
William C. Clarke.

WARD 3.

Nathan P. Hunt.
James E. Dodge.

WARD 4.

Frederick C. Crosby.
Stephen B. Stearns.

WARD 5.

John F. Cahill.
James P. Slattery.

WARD 6.

F. T. E. Richardson.
Charles G. Dodge.

WARD 7.

Ed. B. Woodbury.
Marshall P. Hall.

WARD 8.

Luther C. Baldwin.
William K. Robbins.John F. Frost, *ex officio.*

SUPERINTENDENT OF PUBLIC INSTRUCTION.

William E. Buck.

TRUANT OFFICER.

Samuel Brooks.

ASSESSORS.

Henry Lewis.	John Ryan.
John E. Stearns.	George H. Dudley.
David O. Furnald.	Andrew J. Dickey.
Harrison D. Lord.	Frank T. Provost.

INSPECTORS OF CHECK-LISTS.

William B. Stearns.	Michael F. Lawler.
Benjamin L. Hartshorn.	Isaac Whitemore.
David O. Furnald.	Joseph A. Foster.
Harrison D. Lord.	Charles C. Tinkham.

OVERSEERS OF THE POOR.

David B. Varney, *ex officio* Chairman.
 William H. Maxwell, Clerk.

William H. Maxwell.	Thomas H. Mahoney.
Thomas L. Quimby.	Charles Francis.
James Sutcliffe. *	David W. Anderson.
Benjamin F. Garland. †	Horatio Fradd.
George S. Holmes.	

* Deceased. † Elected to fill vacancy.

BOARD OF HEALTH.

George C. Hoitt, *Chairman*.
 Joseph B. Sawyer, *Clerk*.
 Wm. M. Parsons. Joseph B. Sawyer.
 George C. Hoitt.
 Russell White, *Sanitary Inspector*.
 Charles H. Reed, *Sanitary Inspector*.

FIRE DEPARTMENT.

Thomas W. Lane, *Chief Engineer*.
 Fred S. Bean, *Clerk*.
 Clarence D. Palmer.* Ruel G. Manning.
 Fred S. Bean. Eugene S. Whitney
 Clarence R. Merrill.†

WATER COMMISSIONERS.

David B. Varney, *ex officio*.
 Alpheus Gay, *Chairman*.
 James A. Weston, *Clerk*.
 Edwin H. Hobbs. ‡ Henry Chandler.
 Andrew C. Wallace. James A. Weston.
 Alpheus Gay. Joseph F. Kennard.

TRUSTEES OF CITY LIBRARY.

David B. Varney, *ex officio*.
 John F. Frost, *ex officio*.
 Lucien B. Clough. Daniel Clark.
 Nathan P. Hunt. Isaac W. Smith.
 Herman F. Straw. Moody Currier.
 Benjamin C. Dean.

* Resigned. † Elected to fill vacancy. ‡ Deceased November 27, 1890.

HIGHWAY SURVEYORS.

Dist.		Dist.	
1.	John C. Ray.	8.	Levi J. Proctor.
2.	Wm. Sanborn.	9.	Alphonzo Boyce.
3.	“ “	10.	Charles O. Phelps.
4.	Rodney N. Whittemore.	11.	Wm. H. Colby.*
5.	Mark E. Harvey.	11.	Frank D. Hanscom.†
6.	Albert J. Peaslee.	12.	Leroy M. Streeter.
7.	Charles Francis.	13.	John H. Campbell.

CITY WEIGHER.

Jonathan S. Paige. *
 Frank H. Crawford. * †
 William Bayley. §

SEALER OF WEIGHTS AND MEASURES.

Joseph B. Baril.

FISH AND GAME WARDENS.

John C. Higgins.	William F. Bradbury.
George A. Clark.	Samuel S. James.
	William C. Clarke.

TRUSTEES OF CEMETERIES.

Sylvanus B. Putnam, *Clerk*.

Nathan P. Hunt, Bushrod W. Hill, for four years.

* Resigned. † Elected to fill vacancy of Colby, Sept. 2, 1890. ‡ Elected to fill vacancy of Paige. § Elected to fill vacancy of Crawford.

John M. Kendall, Hiram Stearns, for three years.
 C. H. Bartlett, Joseph L. Stevens, for two years.
 James A. Weston, John E. Stearns, for one year.

SUB-TRUSTEES OF CEMETERIES.

Valley. — Alderman Lane, Councilman Wright; Messrs. Hunt, Hill, and Kendall.

Pine Grove. — Alderman Bacon, Councilman Hunter; Messrs. Bartlett, Stevens, and Weston.

Amoskeag. — Councilman Heath; Messrs. J. E. Stearns and Hiram Stearns.

Byron A. Stearns, *Supt. Pine Grove Cemetery.*
 Charles H. G. Foss, *Supt. Valley Cemetery.*

TRUSTEES OF CEMETERY FUNDS.

Hon. James A. Weston, *Chairman.*
 Hon. Person C. Cheney.
 Hon. David B. Varney, *ex officio.*

INSPECTORS.

Milk. — H. F. W. Little.

Buildings. — Thomas W. Lane.

Oil. — John P. Cronin and Edward J. Powers.

WARD OFFICERS.

Moderators.

- Ward 1. — Stillman P. Cannon.
 Ward 2. — Nicholas Nichols.
 Ward 3. — Lyman W. Colby.
 Ward 4. — John C. Bickford.
 Ward 5. — John McAllister.
 Ward 6. — Clarence D. Palmer.
 Ward 7. — Ira W. Stearns.
 Ward 8. — John W. Wilson.

Ward Clerks.

- Ward 1. — Frank X. Foster.
 Ward 2. — Daniel C. Smith.
 Ward 3. — Frank O. Moulton.
 Ward 4. — Edwin L. Richardson.
 Ward 5. — Thomas Howe.
 Ward 6. — William H. Sleeper.
 Ward 7. — Fred W. Pillsbury.
 Ward 8. — Charles G. Ranno.

Selectmen.

- | | |
|----------------------|-----------------------|
| WARD 1. | WARD 2. |
| Lees Ward. | Daniel G. Andrews. |
| George C. Kemp. | Charles R. Holbrook. |
| Amasa S. Hilands. | Harry P. Ray. |
| WARD 3. | WARD 4. |
| David Thayer. | John F. Gillis. |
| Charles F. Garland. | George E. Richards. |
| William H. Darling. | Josiah H. Mann. |
| WARD 5. | WARD 6. |
| Charles J. Woods. | George B. Rogers. |
| Martin J. Harvey. | Jerome B. Titus. |
| Patrick C. Campbell. | Peter D. St. Germain. |

WARD 7.

George B. Smith.
Sumner F. Clafin.
Willie D. Wheeler.

WARD 8.

Joseph A. Heon.
Henry J. Hatch.
Victor Sansoucie.

MAYOR VARNEY'S
VALEDICTORY ADDRESS.

MAYOR VARNEY'S ADDRESS.

Gentlemen of the City Councils :

As this is the last meeting that will be held under the present administration, I deem it proper to take this occasion to thank you individually and collectively for the courtesies that you have extended to me during my incumbency of the office of Mayor. Coming to the office without any previous training in matters of municipal government, mistakes could not but be anticipated. If from any error of judgment, or difference of opinion, any of you have had reason to complain of any decision of mine, you have done so in a manner creditable to yourselves and satisfactory to me. In many cases, in your generosity you have kindly overlooked the fault, and have been content to ignore the matter altogether. I wish also to thank you for your prompt attendance at the various meetings of the city government, and the wholesome interest you have shown in all matters relating to the city's affairs.

I think I am justified in saying that the retiring city government has done much that will redound to its credit; that the two years in which we have held control of the city's affairs have been years of progress, and that now as we prepare to lay down our trust that we can look back with pride on what has been accomplished.

I do not propose, as has been the custom of my predecessors, to write a valedictory for publication, as the auditor early in the year will issue the annual year book, giving a detailed statement of what has been done in all the public departments during the year 1890, together with a mass of other information with relation to the city's recent municipal career, of a most interesting character.

I cannot refrain, however, from calling your attention to a few of the things, permanent in their character, by which this administration will be judged not only by the people of our own day but, I trust, by those of a later generation.

In a city the size and character of Manchester, with more than 140 miles of streets and roads in its corporate limits, there is a constant demand for new sewers and streets, and for improvements and repairs upon those already in existence. During the last two years there have been built in Manchester 28,425 feet of sewerage, more than five and one fourth miles. There have been laid 33,773 square yards of macadamizing, amounting in a lineal measurement to 10,849 feet, or a little over two miles. There has also been laid 5,963½ square yards of concrete roadway, amounting to 2,450 feet in length. There have been about 30 miles of streets turnpiked and graded, and a great amount of other work done in the street department, enumeration of which is not necessary here. The sewers that have been constructed have many of them been built under tremendous difficulties; in many places the sewer trenches have been from 15 to 20 feet in depth, much of the distance through a solid ledge. In spite of the odds under which the sewer department has labored, the facts show that more sewer main has been constructed during the past two years than has ever been the case before, during the same length of time.

An important piece of work was the replanking of McGregor bridge. All the bridges in the city have been replanked or repaired, and are believed to be in a good state of preservation.

Another matter that will be readily recalled by many of you is the building of the new city stables. It has been obvious for a long time that the quarters at the Vine-street station were too cramped for both the street and fire departments, and the city government is, I believe, to be congratulated on having remedied this evil, and given to each department the quarters it so manifestly needed.

The chief building enterprise of this administration has been the new West Manchester school building. The school facilities on that side of the river have for some time been crowded and

insufficient ; realizing this fact, the present city government took steps very early in its career to increase the school property on the West Side. A lot was purchased on a commanding elevation and a substantial and modernly appointed structure erected thereon at a cost of not far from \$42,000. The building will accommodate eight schools, and by a comparatively small outlay two more. The edifice is one in which we may well take pride, and although the erection of a school building, or any other structure where it is necessary to expend any considerable sum, is apt to arouse criticism for the time being, that is the lot of all public servants and should be borne cheerfully. I think, gentlemen, we can safely await the verdict of the future as to the wisdom of erecting this structure in the thorough and painstaking manner that we have done.

The creation of the office of City Auditor is another event which belongs to this administration and one I think in which we may all take a just pride. The influence of the office cannot but be beneficial to the city.

Our police and fire departments have maintained their previous high standard of efficiency, and are believed to be in better condition to-day than ever before. The city's enterprise has been shown by the interest taken in the matter of public parks, two of which in easily accessible locations we now control. There are other matters of which I might speak, but I will not further trespass on your time.

The office of mayor of a city of 44,000 inhabitants, with the industry, enterprise, and zeal of Manchester, is one which any citizen may well feel proud to hold. The responsibilities attached to the position are many and great and are deserving of the best thought and warmest endeavor of the ablest men in the community. Manchester should be no laggard in the race for industrial and mercantile honor and position in which she is engaged, and in which she has as competitors many older, richer, and more powerful municipalities. It is only by pursuing a wise, broad-minded, and liberal policy that she will be able to avoid the mistakes of others and secure to herself that full measure of prosperity which is so manifestly in the future her due.

DAVID B. VARNEY, *Mayor*.

REPORT
OF THE
BOARD OF WATER COMMISSIONERS.

BOARD OF WATER COMMISSIONERS.
1890.

DAVID B. VARNEY, MAYOR, *ex officio*.

JAMES A. WESTON, *Clerk*, term expires January, 1897.

HENRY CHANDLER, term expires January, 1892.

ALPHEUS GAY, *President*, term expires January, 1893.

A. C. WALLACE, term expires January, 1894.

EDWIN H. HOBBS,* term expires January, 1895.

JOSEPH F. KENNARD, term expires January, 1896.

OFFICERS.

CHARLES K. WALKER, *Superintendent*.

ARTHUR E. STEARNS, *Registrar*.

CHARLES C. COLE, *Engineer at Pumping Station*.

* Deceased November 27, 1890. Charles H. Manning elected to fill vacancy.

REPORT

OF THE

BOARD OF WATER COMMISSIONERS.

To the City Councils of the City of Manchester :

GENTLEMEN, — The Board of Water Commissioners have the honor to present herewith their nineteenth annual report for the year ending December 31, 1890, together with the report of the superintendent covering the same period of time, to which reference is made for the details of the service connected with this department.

The receipts and expenditures for the year have been as follows :

Balance unexpended December 31, 1889	.	.	\$39,589.21
Receipts from all sources	.	.	90,463.37
			<u>90,463.37</u>
Total	.	.	\$130,052.58
Appropriated to pay interest	.	.	\$36,000.00
Expended on construction	.	.	11,314.87
Repairs and running expenses	.	.	22,088.82
			<u>22,088.82</u>
Total expenditures	.	.	69,403.69
			<u>69,403.69</u>
Balance unexpended	.	.	\$60,648.89

The increase in gross receipts over the year 1889 is \$3,762.91.

The construction expenses have not been as large as usual from the fact that very little cast iron pipe has been purchased, the stock left over from the previous year having been nearly sufficient to answer the requirements. It is estimated that an ex-

penditure of about \$30,000 will be advisable the coming year to furnish the desired quantity of pipe, gates, hydrants, and special castings, in order to continue the renewals and make the extensions demanded by the expansion of the city limits.

Another year of excessive rainfall has caused the low lands surrounding Massabesic lake to be unusually wet and in some instances flooded immediately after heavy rains. The water in the lake has in consequence been kept high a considerable part of the season. While it is a manifest advantage to the owners of land bordering on the lake to have a full pond and as near as possible an unvarying stage of water, some have entertained a different view and have claimed that the high water was due to the dam at the outlet, instead of ascribing it to the true cause, so manifest to those who have given attention to the subject, namely, the heavy and, for considerable periods of time, almost incessant rains. Yet your commissioners have pursued the policy adopted some years ago and have purchased such lands as have been offered at reasonable prices. They have also purchased several pieces of real estate in Auburn village, where locations were such that the drainage from the buildings must necessarily mingle with the waters of the lake.

The attention of your commissioners has been called to the subject of a high service system of water-works by a petition to your honorable body, which was referred to them. After consultation with the joint standing committee on water-works, Mr. M. M. Tidd, of Boston, a hydraulic engineer of long experience and acknowledged ability, was employed to make a thorough examination of the various methods that have been suggested for carrying out the project, and prepare estimates of the cost of the different plans. The results of his investigations are embodied in an exhaustive report appended hereto. It is desirable that attention be given to this subject before the annual appropriations are made, in order that means may be provided for carrying on the work, should it be deemed expedient to inaugurate the enterprise the coming season. The questions, therefore, as to the advisability of constructing this system, and also whether the time has arrived when it is required for the convenience of the citizens

immediately interested and for the reasonable protection of their property, are submitted for your early consideration and decision.

In such investigation as you wish to make bearing on this subject, your commissioners will be glad to furnish any aid in their power by conference or otherwise. In this connection they beg to suggest that whenever the work is undertaken it progress by such moderate stages that the cost may be met by the income of the water-works and thus avoid raising the funds by taxation.

Respectfully submitted.

ALPHEUS GAY, *President*,
D. B. VARNEY, *Mayor, ex officio*,
A. C. WALLACE,
HENRY CHANDLER,
JOSEPH F. KENNARD,
JAMES A. WESTON, *Clerk*,
Board of Water Commissioners.

January 1, 1891.

SUPERINTENDENT'S REPORT.

To the Board of Water Commissioners of the City of Manchester.

GENTLEMEN,—I herewith submit the report of the superintendent for the year 1890.

For the past four years there has been a large supply of water in the lake. The lowest point reached the past season was eleven inches above the dam. This was in the month of August. In the month of October the water was the highest on account of the heavy rains during that month.

The following is the rainfall each year for the past three years, furnished by Sergeant J. H. Melton :

1888	. . . . .	46.81 inches.
1889	. . . . .	36.94 “
1890	. . . . .	45.70 “

From the records kept by the Amoskeag Corporation at the gate house, we get the amount from 1880 to 1888.

1880	. . . . .	27.76 inches.	1884	. . . . .	38.32 inches.
1881	. . . . .	38.91 “	1885	. . . . .	36.28 “
1882	. . . . .	33.90 “	1886	. . . . .	35.79 “
1883	. . . . .	30.93 “	1887	. . . . .	43.02 “

There has been cut on the city's land just south of Johnson's Beach a little over 100 cords of wood, mostly birches that had begun to decay. On the same land there is a small growth of sapling pines that were left. They are growing quite fast, and will thrive all the better for cutting out the other trees. About three fourths of this wood was hauled to the pipe yard near the Portsmouth railroad, sawed, and piled up to be used for melting

lead. The remainder was hauled to the pumping-station. There is now wood enough on hand for another year. A fire at the pipe yard last autumn caused the loss of about five cords of wood and several lengths of fence. No repairs have been made on the dam, canal, or penstock, with the exception of some wood work on the gates at the head of the canal.

At the pumping-station we have had no serious accident. Every part of the machinery has run well, and is in good condition at the present time. The old blacksmith shop just west of the station has been taken down and a new building erected. One part is used for a storehouse, and the other for a blacksmith shop.

The following table shows the amount of water pumped each month during the year 1890 by each pump :

RECORD OF PUMPING IN 1890.

MONTHS.	Kind of pump.	No. hours' work.	Average strokes per minute.	Total number of strokes pumped.	No. gallons each pump.	Total number each month.	Daily average.
January	Davidson.	285 h. 20 m.	22.27	381,362	57,967,024	57,967,024	1,899,904
February	Davidson.	257 " 10 "	22.27	343,373	52,223,096	52,223,096	1,865,110
March	Davidson.	259 "	22.40	348,232	52,931,264	52,931,264	1,837,287
"	R. D. Wood.	11 "	22.00	14,520	1,916,640	54,847,904	1,793,287
April	Davidson.	168 " 45 "	22.12	223,062	33,965,424	50,001,536	1,696,718
"	R. D. Wood.	98 " 15 "	21.57	129,516	16,496,112	66,497,648	2,357,738
May	Davidson.	160 " 15 "	22.19	213,377	32,433,304	54,270,856	1,750,673
June	R. D. Wood.	126 " 45 "	21.84	163,436	21,837,352	59,904,296	1,996,809
July	Davidson.	305 " 45 "	21.32	394,798	59,904,296	59,904,296	1,996,809
August	Davidson.	354 " 45 "	21.29	453,613	68,949,176	73,089,884	2,357,738
"	R. D. Wood.	24 " 20 "	21.49	31,969	4,140,708	64,223,652	2,071,740
September	Davidson.	328 " 30 "	21.44	422,526	64,223,652	64,223,652	2,071,740
"	Davidson.	257 " 10 "	21.27	327,403	49,765,256	59,439,800	1,981,326
October	R. D. Wood.	57 " 45 "	21.10	78,292	9,674,544	67,990,044	2,193,227
"	Davidson.	191 " 5 "	21.61	250,739	38,121,448	56,126,776	1,810,541
November	R. D. Wood.	108 " 50 "	21.05	136,404	18,005,328	35,554,176	1,281,806
December	Davidson.	276 " 50 "	22.04	369,488	55,554,176	67,990,044	2,193,227
"	Davidson.	307 " 50 "	22.02	405,735	61,680,840	705,639,344	1,932,073
"	R. D. Wood.	40 " 20 "	22.11	47,737	6,309,204	705,639,344	1,932,073
Totals and averages.....	.....	3,617 h. 30 m.	21.77	4,728,362	705,639,344	705,639,344	1,932,073

The force and supply main had about the usual number of leaks. No repairs have been made on the reservoir or gate house. A cheap shed 48 feet long and 16 feet wide has been built at the pipe yard for storing special castings, hydrants, and wood.

DISTRIBUTION PIPES.

We commenced to lay pipe the last day of April and finished the 29th day of October. The following are the streets where the pipe has been extended: Auburn, Belmont, Beauport, Bay, Conant, Cartier, Dubuque, Gore, Prospect, Lake Avenue, Jewett, West Hancock, and Young road. The whole amount is 7,629 feet, equal to 1.44 miles, at an expense of \$5,375.

The pipe taken out and laid over was 995 feet on Auburn street from the 14-inch on Elm to Pine with 8-inch pipe; west of Elm to Canal street, 426 feet of 6-inch pipe; Bowman street, 810 feet of 6-inch; Barr street, 232 feet of 4-inch; Cedar street, from the 14-inch on Elm to Pine, 993 feet of 8-inch; Concord street, from the east side of Elm to Pine street, 940 feet of 8-inch; Chestnut street, 275 feet of 4-inch; Central street, 40 feet of 6-inch; Granite street, 355 feet of 6-inch; Hanover street from the east side of Elm to Pine, 929 feet of 8-inch; Douglas street, 124 feet of 6-inch; Laurel street, 40 feet 6-inch; Main street, 430 feet 10-inch, Merrimack street from the 14-inch on Elm to Pine, 985 feet of 8-inch; Mast road, 461 feet of 6-inch; Manchester street from the east side of Elm to Chestnut street, 570 feet of 8-inch; Pearl street from the east side of Elm to Pine, 920 feet of 8-inch, 32 feet of 6-inch; Pine street from Amherst to Concord street, 330 feet of 8-inch; Pine from Lake Avenue to Merrimack, 750 feet of 8-inch, 8 feet of 6-inch; Second street, 488 feet 6-inch; Spruce street, from the 14-inch on Elm to Chestnut, 640 feet of 8-inch; Walnut street, 260 feet of 4-inch; Vine street, 30 feet 4-inch. The whole length, 12,063 feet, is equal to a little over $2\frac{1}{4}$ miles, at an expense of \$11,426.

The greater part of the old cement pipe is found to be in bad condition. But there are some sections of 50 to 100 feet in length where the cement pipe is perfectly sound. One place in particular was noticed in making the connection on Merrimack

street with the 14-inch on Elm across the latter street, the pipe was just as sound and free from rust as when first laid. The cement pipe has been taken out where it was considered the poorest. It will be noticed by the above that the pipes relaid, excepting 430 feet of 10-inch, are the smaller sized, mostly 8, 6, and 4 inch.

Two years ago 641 tons of cast iron pipe were bought, thinking it would be enough for a two years supply, but laying more 8-inch than was estimated at that time, 400 pieces more were purchased, equal to about 100 tons. Next year we shall have to buy a large amount if we are to continue to re-lay and make extensions, as has been done the past season.

We have set twenty new hydrants the past year, making in all 461. Last winter there was not much trouble about freezing. Last month, during the first of the cold weather, the street department began to use them for washing out sewers and cess-pools, but were notified to quit till warmer weather. As it was we found five hydrants frozen on account of letting water in when the thermometer was about zero.

As a whole, the water works have run with as little trouble the past season as any. We have had about the same number of leaks and washouts. All claims presented for damages on this account have been adjusted.

PIPES, GATES, AND HYDRANTS LAID IN 1890.

STREETS.	Pipe laid in feet.			Gates set.		Hydrants.	LOCATION.
	6 in.	4 in.	8 in.	6 in.	4 in.		
Auburn.....	204						East to No. 388.
Auburn.....			1			1	Cor. Elm.
Auburn.....				2			Cor. Pine a'd west side Elm.
Barr.....					1		Cor. Granite.
Bay.....	625			2			Webster to North.
Bay.....	262					1	St'hw'd to John Dolber res.
Belmont.....	778					1	Northward to Massabesic.
Beaumont.....	390						Schuyler—northward.
Blaine.....	9					1	Cor. Main.
Bowman.....				1			Cor. Milford.
Cartier.....	252					1	Southward to Sullivan.
Cartier.....	613			1			Conant northward.
Cedar.....			1			1	Cor. Elm.
Central.....				1			West side Pine.
Chestnut.....			1				North side Pearl.
Conant.....	466					2	West st. to Dubuque.
Concord.....			1			1	Cor. Elm.
Dubuque.....	550			1			Cartier northward.
Foster Ave.....		248				1	Valley northward.
Gore.....	60						To Walnut.
Hancock.....	667					1	Eastward to shoe shop.
Hanover.....			3			2	Cor. Elm, Chestnut and Pine.
Jewett.....	373				2	1	Valley northward.
Lake.....	419					1	Eastward from Cass st.
Laurel.....				1			Cor. Pine.
Manchester.....			2			1	Cor. Elm and Chestnut.
Merrimack.....			1			1	Cor. Elm.
Pearl.....	232						East of Ashland.
Pearl.....			1			1	Cor. Elm.
Prospect.....	721				2	1	East of Russell.
Spruce.....			1			1	Cor. Elm.
Vine.....						1	Cor. Concord.
Young road....	760					1	East of Taylor.
	7,381	248	12	13	3	20	

Number miles of pipe laid, 1890, 1.44, or 7,629 feet.

“ gates set, “ 28

“ hydrants set, “ 20

LOCATION OF HYDRANTS SET, 1890.

Auburn, cor. Elm; Bay, cor. Salmon; Belmont, near Coffin residence; Blaine, cor. Main; Cartier, cor. Sullivan; Cedar, cor. Elm; Conant, cor. Cartier; Conant, cor. Dubuque; Concord, cor. Elm; Hancock, near Shoe shop; Hanover, cor. Elm; Hanover, cor. Pine; Jewett, cor. Massabesic; Lake Ave.; Manchester, cor. Elm; Merrimack, cor. Elm; Pearl, cor. Elm; Prospect, cor. Linden; Spruce, cor. Elm; Young road.

The following places are where cement-lined pipe was taken up and cast-iron laid :

STREETS.	Length in feet.				Gates.	Location.
	10 in.	8 in.	6 in.	4 in.		
Auburn		995			1	Elm to Pine.
Auburn			426			Elm to Canal.
Barr				232		Granite to Douglas.
Bowman			810			Mast to Milford.
Cedar		993			1	Elm to Pine.
Central			40			Corner Pine.
Chestnut				275		Hanover to Amherst.
Concord		940				Elm to Pine.
Douglas			121			West St. west.
Granite			355			West St. west.
Hanover		929				Elm to Pine.
Laurel.....			40			Corner Pine.
Main	430					Near engine-house.
Manchester.....		570				Elm to Chestnut.
Mast road.....			461			Bowman west.
Merrimack.....		985			1	Elm to Pine.
Pearl.....		920	32			Elm to Pine.
Pine.....		330				Amherst to Concord.
Pine		750	8			Lake to Merrimack.
Spruce		640			1	Elm to Chestnut.
Second.....			488			To railroad.
Walnut.....				260		Bridge to Pearl.
Vine				30		Corner Concord.
	430	8052	2784	797	4	Total 12,063 feet.

On Auburn, Spruce, Cedar, Merrimack, Manchester, Hanover, and Concord, 6-inch pipe was replaced with 8-inch pipe. One 6-inch gate was taken out on Auburn, Cedar, Spruce, and Merrimack, corner Elm.

DISTRIBUTION PIPES AND GATES LAID TO DECEMBER 31, 1890.

SIZE.	Cement-lined pipe.	Cast-iron pipe.	Gates.
20 inch diameter..	20,560.00 ft.	5,146.00 ft.	9
14 inch diameter.....	6,825.00 "	7,598.00 "	11
12 inch diameter.....	7,983.00 "	11,709.00 "	20
10 inch diameter.....	4,383.75 "	11,194.00 "	14
8 inch diameter.....	9,506.00 "	20,680.00 "	45
6 inch diameter.....	70,402.50 "	97,336.00 "	296
4 inch diameter.....	6,774.00 "	9,956.00 "	40
	126,434.25 ft.	163,619.00 ft.	435

23.946 miles cement-lined pipe.

30.988 miles cast-iron pipe.

54.934 total miles of pipe.

435 gates.

461 hydrants.

7 air valves.

METERS.

The number of meters set during the year was one hundred and eighty-four (184).

Total number of meters now in use, eleven hundred and thirty-five (1,135).

The number of applications for water to date has been thirty-five hundred forty-five (3,545).

SERVICE PIPES.

One hundred and sixty-six (166) service pipes have been laid this year, as follows :

164	1	inch diameter	.	.	.	.	.	4,199.7	feet.
1	1½	" "	.	.	.	.	.	36.0	"
1	2	" "	.	.	.	.	.	21.5	"

Total number of feet laid, 1890 4,257.2

Service Pipes Relaid.

3	$\frac{3}{4}$	inch diameter,	73.8	feet,	to	1	inch diameter,	74.5	feet.
2	$\frac{3}{4}$	"	66.6	"	to	$1\frac{1}{2}$	"	68.3	"
1	1	"	33.0	"	to	1	"	16.0	"

Thirty-three hundred and ninety-two (3,392) service pipes have been laid to date, as follows:

39	$\frac{1}{2}$	inch diameter	.	.	.	.	.	845.0	feet.
1768	$\frac{3}{4}$	"	"	.	.	.	.	46,473.9	"
1488	1	"	"	.	.	.	.	38,095.5	"
23	$1\frac{1}{4}$	"	"	.	.	.	.	1,293.5	"
18	$1\frac{1}{2}$	"	"	.	.	.	.	552.3	"
47	2	"	"	.	.	.	.	1,904.9	"
1	$2\frac{1}{2}$	"	"	.	.	.	.	57.0	"
1	3	"	"	.	.	.	.	16.8	"
7	4	"	"	.	.	.	.	233.0	"

Total length of service pipe 89,471.9 feet.

Number of miles of service pipe, 16.95.

The income from the sale of water for 1890 has been as follows:

Received for water by rate	.	.	.	\$52,311.10
" for water by meter	.	.	.	37,009.80
" for building purposes	.	.	.	649.90
" from fines	.	.	.	151.80
" for labor and pipe sold	.	.	.	298.77
" of G. G. Griffin (lease)	.	.	.	1.00
" of B. P. Kimball (for grass)	.	.	.	2.00
" of W. G. Brown (rent)	.	.	.	36.00
" of George P. Clark (lease)	.	.	.	2.00
" of Fletcher Brown (lease)	.	.	.	1.00
				————— \$90,463.37

Abatements, \$191.66.

Current expenses for 1890 \$22,088.82

Construction expenses for 1890 . . .	\$11,314.87	
Appropriated for interest, 1890 . . .	36,000.00	
	<u> </u>	\$69,403.69
Receipts over expenditures . . .		\$21,059.68
Amount on hand January 1, 1890 . . .	\$39,589.21	
Amount received, 1890 . . .	90,463.37	
	<u> </u>	\$130,052.58
Amount expended, 1890 . . .	69,403.69	
	<u> </u>	\$60,648.89

CLASSIFICATION OF ACCOUNTS FOR 1890.

Superintendence and repairs . . .	\$17,640.11	
Stationery and printing . . .	229.37	
Office and incidental expenses . . .	1,409.01	
Pumping expenses . . .	2,590.90	
Repairs to dam, canal, and reservoir . . .	85.00	
Repairs to buildings . . .	134.43	
	<u> </u>	\$22,088.82
Current expenses for 1890 . . .		\$22,088.82
Service pipes . . .	\$1,871.37	
Distribution pipes . . .	2,077.73	
Fire hydrants and valves . . .	1,801.78	
Meters and fixtures . . .	2,957.33	
Pump house and building . . .	298.90	
Land . . .	2,290.75	
Grading and fencing . . .	17.01	
	<u> </u>	\$11,314.87
Construction expense, 1890 . . .		\$11,314.87
Land and water rights . . .	\$57,383.20	
Dam, canal, penstock, and races . . .	101,399.16	
Pumping machinery, pump house, and buildings . . .	107,444.07	
Distributing reservoir . . .	71,542.36	
Force and supply main . . .	89,769.02	
Distribution pipes . . .	368,598.25	

Fire hydrants and valves	\$41,863.00	
Tools and fixtures	10,649.35	
Boarding and store houses	919.36	
Roads and culverts	2,193.49	
Supplies	550.39	
Engineering	22,176.19	
Livery and traveling expenses	2,856.64	
Legal expenses	563.79	
Grading and fencing	13,588.26	
Service pipes	47,692.74	
Meters and fixtures	26,365.13	
	<hr/>	
Total construction account to Dec. 31, 1890		\$965,554.40
Current expenses :		
Superintendence, collecting, and re- pairs	\$140,614.07	
Stationery and printing	5,480.00	
Office and incidental expenses	18,312.96	
Pumping expenses and repairs	39,029.08	
Repairs to buildings	1,576.09	
Repairs to dam, canal, races, and reser- voir	3,725.15	
	<hr/>	
Total current expenses to Dec. 31, 1890		\$208,737.35
Interest	\$40,678.51	
Highway expenditures	14,000.53	
	<hr/>	54,679.04
		<hr/>
Total amount of bills approved to date		\$1,228,970.79
Interest, discount, and labor performed on highways, trans., and tools and materials sold	\$62,093.35	
Current expenses to Dec. 31, 1890	208,737.35	
	<hr/>	270,830.70
		<hr/>

Total cost, exclusive of interest and current expenses	\$958,140.09
Interest and discount to Dec. 31, 1890	\$592,919.51
Interest for 1890	<u>34,177.00</u>
Total interest and discount to Dec. 31, 1890	\$627,096.51
Amount paid toward interest to Dec. 31, 1890	\$449,000.00
Amount trans. in 1890	<u>36,000.00</u>
Total	\$485,000.00

The following amounts have been paid over to the city treasurer, and credited to the water-works :

1872, supplies and materials sold	\$573.61
1873, supplies and materials sold	177.07
accrued interest on water bonds sold	193.26
accrued interest on state bonds sold	146.00
water rents	1,920.53
1874, supplies and materials sold	607.89
March 12, highway expenditures, trans. from water account	14,000.53
March 17, interest and discount trans. from water account	12,347.25
Sept. 1, interest and discount trans. from water account	22,361.74
water and hydrant rent, etc.	30,233.54
Dec. 29, interest transferred	4,566.25
1875, Dec. 18, one anvil sold	15.00
Sept. 25, engine, crusher, and material sold water and hydrant rent, etc.	2,089.45
water and hydrant rent, etc.	27,119.15
1876, May 20, derrick sold	125.00
May 20, rent of derrick	24.00
water and hydrant rent, etc.	38,879.47
1877, water and hydrant rent, etc.	43,823.30
1878, water and hydrant rent, etc.	48,873.26
old plow sold	1.00

1879, derrick sold	\$75.00
May 20, water and hydrant rent, etc.	53,068.17
1880, water and hydrant rent, etc.	57,395.25
sale of grass	10.00
level, transit, etc.	250.00
1881, water and hydrant rent, etc.	60,154.62
sale of grass	10.00
derrick	50.00
received of G. G. Griffin	1.00
1882, water and hydrant rent, etc.	67,403.76
received of G. G. Griffin	1.00
received of James Baldwin & Co.	175.00
received from the sale of grass	10.00
received from Goodhue & Birnie	24.37
received for old plank	1.00
received for use of derrick	15.00
1883, received of G. G. Griffin	1.00
received from sale of grass	20.00
water and hydrant rent, etc.	73,437.20
1884, received of G. G. Griffin	1.00
received for stone	5.00
received from sale of grass	10.00
received from pipe sold and labor	616.20
received for water and hydrant rent	74,947.88
1885, received from G. G. Griffin	1.00
B. P. Kimball, for grass	10.00
labor and pipe sold	13.45
received for water and hydrant rent	80,379.67
1886, received from G. G. Griffin	1.00
B. P. Kimball, for grass	5.00
for wood	37.80
labor and pipe	282.43
water and hydrant rent	74,803.76
1887, received for labor and pipe	768.86
received of G. G. Griffin	1.00
received of C. C. Cole . . . . .	.50
received of B. P. Kimball, for grass	10.00

1887, received of A. J. Crombie, for grass . . .	\$5.00
received of A. Goodwin, for poles . . .	10.00
received of W. G. Brown	25.00
received of T. H. Risdon & Co., for freight	15.11
received for water and hydrant rent . . .	79,682.70
1888, received for labor and pipe	227.33
received of G. G. Griffin	1.00
received of George P. Clark	2.00
received of R. D. Wood & Co. (gear) . . .	16.29
received for water and hydrant rent . . .	85,397.20
1889, received for labor and pipe	89.77
received of G. G. Griffin	1.00
received of B. P. Kimball, for grass . . .	2.00
received of W. G. Brown, for rent	50.00
received of James Baldwin, for pipe . . .	65.00
received of Mr. Clement, for pipe . . . .	.50
received for water and hydrant rent . . .	86,492.19
1890, received of G. G. Griffin (lease) . . .	1.00
received of Fletcher Brown (lease) . . .	1.00
received of George P. Clark (lease) . . .	2.00
received of B. P. Kimball, for grass . . .	2.00
received of W. G. Brown, for rent	36.00
received of N. W. Ellis & Co., for pipe . .	153.00
received of J. H. Dearborn, for pipe . . .	35.40
received for water and hydrant rent . . .	90,232.97
	<hr/>
Total received for water, etc.	\$1,134,619.68
Amount appropriated to date	640,000.00
	<hr/>
Amount received to date	\$1,774,619.68
Amount of bills approved to date	1,228,970.79
	<hr/>
	\$545,648.89
Amount transferred toward interest	485,000.00
	<hr/>
Balance on hand Dec. 31, 1890	\$60,648.89

CHARLES K. WALKER,

Superintendent.

USES FOR WHICH WATER IS SUPPLIED.

PUBLIC BUILDINGS.

1 Jail.	4 Cemeteries.
21 Churches.	1 Orphanage.
1 Court-house.	1 Post-office.
6 Hose Companies.	1 City Library.
4 Fire-engines.	6 Banks.
1 Hook-and-ladder.	8 Hotels.
2 Opera-houses.	1 Masonic Hall.
1 Convent.	1 Odd Fellows' Hall.
2 City Hospitals.	1 Holly-Tree Inn.
1 Old Ladies' Home.	3 Halls.
1 Soldiers' Monument.	23 Schoolhouses.
1 Turner Hall.	1 Battery Building.
4 Fountains.	1 Skating Rink.
2 Trust Companies.	

MANUFACTURING ESTABLISHMENTS.

1 Hosiery mill.	2 Granite works.
1 Silver-plating.	2 Electric light stations.
2 Iron foundries.	3 Sash and blind shops.
2 Dyehouses.	1 Brewery.
4 Machine-shops.	1 Shoe-shop.
6 Clothing manufactories.	1 Gas-works.
8 Harness-shops.	4 Slaughter-houses.
1 Brush-shop.	1 Soap manufactory.
9 Carriage-shops.	4 Needle manufactories.
12 Cigar factories.	4 Beer-bottling.
1 Brass and copper foundry.	3 Book-binderies.
1 Locomotive works.	1 Paper-mill.
1 Grist-mill.	2 Box makers.

MARKETS.

5 Fish.	2 Meat (wholesale).
9 Meat and fish.	

STABLES.

- | | |
|-------------------|--------------|
| 19 Livery. | 798 Private. |
| 1 Horse-railroad. | |

OFFICES.

- | | |
|--------------|--------------|
| 15 Dentists. | 14 Printing. |
| 1 Telephone. | 1 Gas. |
| 2 Telegraph. | 9 Coal. |
| 3 Express. | |

SHOPS.

- | | |
|----------------|--------------------------------------|
| 27 Barber. | 2 Currying. |
| 9 Wheelwright. | 6 Plumber and gas and water
pipe. |
| 11 Blacksmith. | 8 Paint. |
| 5 Carpenter. | 1 Gunsmith. |
| 1 Tinsmith. | |

STORES.

- | | |
|---------------------------|-----------------------------|
| 4 Auction. | 82 Grocery. |
| 28 Drug. | 5 Meal. |
| 13 Jewelry. | 3 Hardware. |
| 1 Fur. | 30 Boot and shoe. |
| 2 House-furnishing goods. | 8 Stove. |
| 20 Fancy goods. | 17 Gents' furnishing goods. |
| 1 Wholesale paper. | 7 Book. |
| 5 Wholesale produce. | 1 Leather and shoe-finders. |
| 21 Dry goods. | 3 Music. |
| 12 Candy. | 3 Upholstery. |
| 1 Cloak. | 8 Undertakers. |
| 15 Millinery. | 5 Sewing-machine. |
| 2 Tea. | 1 Feather-cleaner. |
| 9 Furniture. | 1 Rubber. |

SALOONS.

- | | |
|-------------|------------|
| 11 Dining. | 69 Liquor. |
| 6 Billiard. | |

MISCELLANEOUS.

6 Club-rooms.	5 Greenhouses.
2 Bleacheries.	2 Band rooms.
19 Laundries.	18 Bakeries.
3 Ice-houses.	2 Waste.
10 Photographers.	1 Business college.

WATER FIXTURES, ETC.

7807 Families.	1983 Sill-cocks.
117 Boarding-houses.	461 Fire-hydrants.
9743 Faucets.	35 Stand-pipes.
1512 Wash-bowls.	21 Watering-troughs.
2485 Water-closets.	4 Drinking-fountains.
235 Wash-tubs.	1932 Horses.
747 Bath-tubs.	90 Cattle.
128 Urinals.	1 Public urinal.

MATERIAL ON HAND.

PIPE.

1300 feet 20 in.	1535 feet 14 in.
2100 feet 12 in.	1644 feet 10 in.
1935 feet 8 in.	7000 feet 6 in.
1896 feet 4 in.	

GATES.

5 4 in.	7 6 in.
4 8 in.	1 10 in.

WHOLE SLEEVES.

1 20 in.	6 14 in.
6 12 in.	7 10 in.
24 6 in.	10 4 in.

CLAMP SLEEVES.

3	20 in.	6	14 in.
3	12 in.	46	10 in.
27	8 in.	65	6 in.
10	4 in.		

PLUGS.

2	14 in.	17	6 in.
5	10 in.	18	8 in.
1	12 in.		

BRANCHES.

5	double 6 on 12.	3	single 6 on 12.
8	double 6 on 10.	2	single 10 on 10.
2	double 6 on 6.	1	single 6 on 10.
2	double 4 on 6.	1	single 8 on 8.
8	double 4 on 4.	10	single 6 on 8.
10	double 8 on 8.	16	single 6 on 6.
4	double 4 on 8.	1	single 4 on 6.
2	single 6 on 14.	1	single 4 on 4.
1	single 12 on 14.	1	single 8 on 10.

REDUCERS.

1	14 to 12.	8	6 to 4.
8	8 to 6.	2	12 to 6.
5	10 to 6.	5	8 to 10.
3	8 to 4.		

BENDS.

1	10 in. 1-8.	6	6 in. 1-4.
1	14 in. 1-8.	10	8 in. 1-4.
1	6 in. 1-8.	1	12 in. 1-8.

SERVICE PIPE.

2½ in.	54 feet.	1¼ in.	332 feet.
2 in.	476 feet.	1 in.	1490 feet.
1½ in.	250 feet.	¾ in.	664 feet.

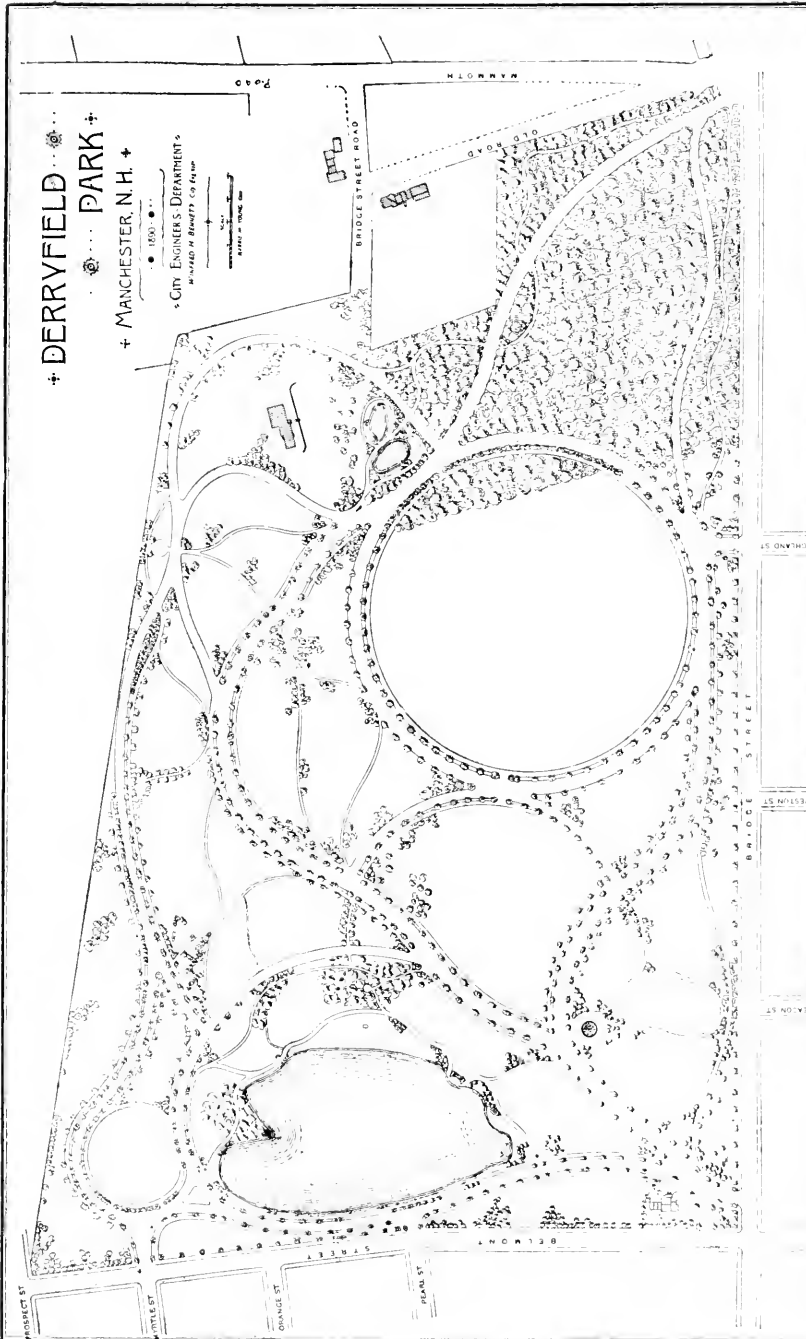


+ DERRYFIELD PARK +

+ MANCHESTER, N. H. +

1000
CITY ENGINEER'S DEPARTMENT'S
OFFICE OF BENTLEY CO. ARCHT.

SCALE OF 1" = 100'



BEALON ST
WESTING
55 WESTING

REPORT
OF THE
CITY ENGINEER.

CITY ENGINEER'S DEPARTMENT.
1890.

CITY ENGINEER.

WINFRED H. BENNETT.

ASSISTANTS.

HARRIE M. YOUNG.

GEORGE W. WALES.

JOHN J. McDONOUGH.

REPORT OF THE CITY ENGINEER.

To His Honor the Mayor, and Gentlemen of the City Councils :

SIRS, — I have the honor of presenting my fifth annual report, being the twelfth annual report of the work in the City Engineer's office and the several highway districts of the city of Manchester, for the year ending December 31, 1890.

Expenses of the office for the year 1890 :

For salary of city engineer	\$1,170.00	
salary of assistants	1,478.88	
supplies for the office	153.74	
repairing	10.69	
additional horse hire	242.00	
stakes	19.35	
horse-shoeing and repairs of wagon and harness, including bill of 1889	45.75	
horse-car fares	10.45	
street numbers	9.30	
printing reports	25.75	
express and postage	2.85	
repairing drawing-boards	12.43	
expenses	2.85	
books and folios	37.85	

Total		\$3,221.89
Appropriation		3,000.00

Amount overdrawn		\$221.89

The items for salary of assistants may be divided as follows :

For giving lines and grades for the extension and construction of streets and sidewalks . . .	\$136.05
plans and profiles relating to the construction of streets and sidewalks	99.18
surveys and levels for the construction of streets and sewers	103.54
giving lines and grades for the construction of sewers not mentioned in these items . . .	52.47
plans and profiles relating to the construction of sewers as above	63.47
surveys and measurements for the assignment of street numbers	92.53
making plans, taking levels, and preparing data for the laying out of Candia road	82.01
making plans, taking levels, and preparing data for the laying out of Hanover-street road . . .	41.53
taking levels and making plans of Calef road . . .	21.78
plans, levels, lines, and grades relating to the construction of the Massabesic-street sewer . . .	33.13
plans, levels, lines, and grades relating to the construction of the Granite-street sewer . . .	17.45
plans, levels, lines, and grades relating to the construction of the main sewer outlet at Merrimack river	14.74
making plans for improvements other than those mentioned in this account	54.35
surveys, levels, and plans, also lines and grades given for improvements in Pine Grove cemetery	97.69
surveys, levels, and plans, also lines and grades given for improvements in Valley cemetery . . .	10.76
surveys, levels, and plans, also lines and grades given for repairing and extending the street railway	38.05
collecting data, classifying accounts, and other work in relation to office report	44.10

For plan and notes for Derryfield park	\$68.25
copying and indexing old records of highways	47.95
indexing plans and notes	11.77
making plans, furnishing lines and grades for contractor, and estimating amount of earth removed on Beauport street	21.53
checking notes, figures, etc.	9.60
measuring amount of coal in schoolhouses for city auditor	15.72
making plans of streets in city clerk's book of records	17.00
levels and grades at Government building	13.68
work in city yard in relation to stable	14.11
making plan of present city farm, also for proposed improvements	17.10
plans for improvements at central fire station	22.76
locating street-signs	6.60
preparing and mounting drawing paper for office use	19.25
locating cesspools, manholes, etc.	21.50
office work preparing notes, data, records, etc.	93.93
office work, information given engineers and others regarding lines, grades, sewers, etc.	<u>75.30</u>
Total	\$1,478.88

Expenses for soldiers' monument :

For water	\$100.00
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The amount of work done in the office during the year is as follows :

Number of orders for surveys, street lines, and grades	846
Number of orders for sewer and paving grades	99
Number of orders for street-railway grades	19
Number of orders for profile levels	18
Total number of orders	<u>982</u>

Levels for profiles for establishing grades, 38,868 feet, equal to 7.36 miles. These profiles, having three lines of levels on each street, make a total distance actually leveled of 116,604 feet.

Levels for sewer profiles	1,455	feet.
Levels for other center profiles	4,535	“
Levels in Pine Grove cemetery	1,855	“
Levels in Valley cemetery	179	“
Other levels	12,361	“

Total levels taken 136,989 feet.

Equal to 25.94 miles.

Surveys of streets and street lines	47,550	feet.
Surveys in Pine Grove cemetery	13,270	“
Surveys in Valley cemetery	1,300	“
Surveys for street numbers	28,125	“
Other surveys	49,264	“

Total surveys made 139,509 feet.

Equal to 26.42 miles.

Street lines marked on ground	32,290	feet.
Lines of lots and avenues, Pine Grove cemetery	6,950	“
Lines of lots and avenues, Valley cemetery	800	“
Lines for street centers	2,811	“
Lines for gutters	15,542	“
Lines for curbs	3,901	“
Lines for sewers	10,243	“
Lines for street railway	4,731	“
Other lines	400	“

Total length of lines marked on ground 77,668 feet.

Equal to 14.71 miles.

Grades set for sidewalks	31,552	feet.
Grades set for centers	2,811	“
Grades set for gutters	15,542	“
Grades set for curb	3,901	“
Grades set for sewers	10,243	“
Grades set for street-railway tracks	4,731	“

Grades set in Pine Grove cemetery	3,657 feet.
Grades set in Valley cemetery	178 "
Other grades	1,344 "
	<hr/>

Total length of grades set 73,959 feet.
Equal to 1.4 miles.

Area leveled for cross-section	24,825 sq. feet.
Profile measurements made	51,500 feet.
	Equal to 9.75 miles.

Perambulation of lines between Manchester and
surrounding towns 144,439 feet.
Equal to 27.35 miles.

BATTERS SET.

City yard, city stable.

Massabesic-street culvert, at Cemetery brook.

Old lots relaid in Valley cemetery	5
Old lots relaid in Pine Grove cemetery	33
New lots laid out in Pine Grove cemetery	106
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Total cemetery lots laid out 144

Street numbers assigned and put on	142
Street numbers replaced	846
Street numbers assigned, but not put on	294
	<hr/>

Total 1,282

This year, as in previous years, the city engineer has investigated, and made surveys in all cases where suits were liable to be brought against the city. Cases investigated and reported to the Committee on Claims, 4.

PLANS AND PROFILES MADE FOR SIDEWALK GRADES.

Adams street, from Webster street to Ray brook.

Candia road, from Mammoth road to Auburn line. Fifteen plans.

Central street, from Beacon to Highland street.

Chestnut street, from Clarke street northerly.

- East High street, from Jane street to Wilson road.
 Elm avenue, from Elm street to Calef road.
 Front street, from Goffstown road to north of Dunbarton road. Three plans.
 Hanover street, from Chestnut to Pine street.
 Hanover street, from Beech to Maple street.
 Hanover street, from Beacon street to Candia road. Ten plans.
 Massabesic street, from Cypress street to Mammoth road. Three plans.
 Merrimack street, from Elm to Wilson street. Four plans.
 Second street, from M. & N. W. R. R. to Piscataquog river.
 West Hancock street, from Merrimack river westerly 1,435 feet.
 Total plans and profiles, 43.

SEWER PLANS AND PROFILES.

- Adams street, from Clarke street northerly.
 Bay street, from Sagamore to Salmon street.
 Concord street, from Maple to Derry street.
 Elm east back street, from Valley to Young street.
 Granite, Barr, and Douglas streets, mains and laterals. Three plans.
 Main sewer outlet, extension to river.
 Massabesic street, from Lake avenue to Cypress street. Two plans.
 Pearl street, from Ashland to Belmont street.
 Sagamore street, from Elm to Bay street.
 Total sewer plans and profiles, 12.

NUMBERING PLANS.

- Adams street, Webster street northerly. Two plans.
 Brown avenue, Baker to Elm street.
 Buzzell street, East High to Bridge street.
 Calef road, Baker street northerly.
 Central street, Beacon to Cass street.
 Cheney place, Elm street westerly.
 Chester street, Amherst to Dutton street.

Cleveland street, Merrimack river to Blaine street. Two plans.

Cypress street, Young road to Massabesic street.

Dean street, Elm to Canal street.

Foster avenue, Valley to Young street.

Garland avenue, Taylor to Cypress street.

Gates street, Cartier to Rimmon street.

Jewett street, Cilley road to Massabesic street.

Liberty street, Sagamore to Webster street. Two plans.

Market street, Elm to Franklin street.

Marlborough street, Bowman street westerly.

Mechanic street, Elm street westerly.

Pleasant street, Elm to Franklin street.

Rimmon street, Conant to Kelly street. Four plans.

Spring street, Elm street westerly.

Spruce street, Hall street to James Hall road. Three plans.

Stark street, Elm street westerly.

Taylor street, Young road to Massabesic street.

Union street, North to Clarke street. Two plans.

Valley street, Wilson to Massabesic street.

Water street, Elm street westerly.

West Merrimack street, Elm to Franklin street.

Young street, Taylor to east of Jewett street.

Young road, Taylor to east of Jewett street.

Total numbering plans, 39.

MISCELLANEOUS PLANS.

Central fire station, proposed changes.

City yard, location of buildings.

Hanover square, sections and location of culvert.

Hanover square, plan, section, and details of pond basin.

Massabesic street, plan, section, and location of culvert.

Valley cemetery, plan of summer-house.

Total miscellaneous plans, 6.

WORKING PLANS.

Ash east back street, Harrison to Brook street. Sewer profile.

Cartier street, Conant to Sullivan street. Profile.

- Central street, Beacon to Highland street. Profile.
- Central fire station, proposed improvements. Three plans.
- Chandler street, North to Webster street. Profile.
- Chandler street, North to North north back street. Sewer profile.
- City farm, present building. Three plans.
- City farm, proposed building. Nine plans.
- City stable, detail of date.
- Douglas street, West to Barr street. Profile.
- Dubuque street, Conant to Sullivan street. Profile.
- Elm street, Blodget to Salmon street. Center profile.
- Elm street, River road to Baker street. Sewer profile.
- Elm avenue, Elm street to Calef road. Profile.
- Elm west back street, North north back to Webster street. Profile.
- Elm west back street, North north back to Webster street. Sewer profile.
- Falls road, Amoskeag bridge to Front street. Profile.
- Foster avenue, Young to Valley street. Profile.
- Government building, arrangement of interior of vaults.
- Granite and Main streets, location of car tracks. Two plans.
- Hancock street, River road westerly. Sewer profile.
- Hanover street, Hall to Belmont street. Profile of gutters.
- Hanover-street road, Mammoth road to Candia road. Laying out.
- Hanover square, proposed pond basin.
- Lowell street, Maple to Ashland street. Profile.
- Main street, proposed bridge over Piscataquog river.
- Massabesic street, Spruce street to Mammoth road. Two profiles.
- North street, Elm street to River road. Profile.
- North north back street, Chandler to Elm west back street. Sewer profile.
- North route to Goffstown road. Profile.
- Pearl street, Elm to Chestnut street. Profile.
- Pine street, Amherst to Concord street. Profile.
- Pine street, Orange to Harrison street. Profile.

Pine Grove cemetery, James A. Weston's lot.
 Rimmon street, Kelly to Wayne street. Center profile.
 River road, Hancock to Elm street. Sewer profile.
 Schuyler street, Main to Cartier street. Profile.
 Union street, Lowell to Bridge street. Profile.
 Valley cemetery, lot for Palmer & Garmon.
 Total working plans, 53.

TRACINGS.

Ash street, Concord to Lowell street, city lot. Two plans.
 Candia road, Mammoth road to Hanover street.
 Central fire station, proposed improvements.
 City stable. Three plans.
 Government building, curbing and walks. Two plans.
 Government building, section of post-office.
 Government building, arrangement of interior of vaults.
 Hancock street, land taken from Waterman Smith.
 Hanover street, land of A. G. Fairbanks.
 Hanover street, Beacon street to Candia road.
 Lake avenue, turnout for street railway.
 Main street, proposed bridge over Piscataquog river.
 Main sewer outlet, at Merrimack river.
 McGregorville, portion of sewerage map.
 Pine Grove cemetery, curbing at James A. Weston's lot.
 Two plans.
 Pine Grove cemetery, Swede lot, for G. W. Bacon.
 Pine Grove cemetery, Mrs. Charles H. Hill's lot. Two plans.
 Pine Grove cemetery, lots in northwest section, for superintendent.
 Pine Grove cemetery, Riverside lawn. Three plans.
 Pine Grove cemetery, Landscape lawn. Two plans.
 Square bounded by Chestnut, Webster, Union, and North streets.
 Total tracings, 30.

BLUE PRINTS.

City stable. Ten plans.
 Main sewer outlet at Merrimack river. Eleven plans.

Part of West Manchester, from Amoskeag company.

Total blue prints, 22.

MAPS.

City of Manchester, showing scavenger district. Two plans.

Derryfield park, showing walks, drives, etc.

Total maps, 3.

Eight plans of streets laid out have been copied in the city clerk's book of records.

Total of all plans made, 216.

Plans made for the establishment of grade on laid-out streets, 37,626 feet.

Plans made for the establishment of grade on streets not laid out, 2,607 feet.

Total, 40,233 feet, equal to 7.62 miles.

NEW HIGHWAYS LAID OUT.

STREET.	Location.	Width.	Length.
Candia road.....	Massabesic street to Auburn line.....	66 feet.	14,900 feet.
Cartier.....	Conant to Sullivan.....	50 "	900 "
Cartier.....	Amory to Kelly.....	50 "	700 "
Forest.....	Milford street to Old Mast road.....	45 "	1,460 "
Hoyt.....	South Main street to Boynton road.....	40 "	604 "
Milford.....	Amherst road westerly.....	50 "	517 "
Mitchell.....	Beech street to Calef road.....	50 "	1,260 "
North.....	Pine east back to Union.....	50 "	336 "
Second.....	M. & N. W. R. R. to Blaine.....	50 "	175 "
Wayne.....	Dubuque to Rimmon.....	50 "	270 "
West Hancock.....	Merrimack river westerly.....	50 "	1,435 "
West Webster.....	River road to C. R. R.....	40 "	382 "
			23,002 feet.

SEWERS BUILT IN 1890.

STREET.	LOCATION.	Material.	Size in inches.	Length in feet new.	Length in feet relaid.	Man-holes.	Lamp-holes.
Main sewer	Outlet at Merrimack river	Steel	48	312		2	
Granite	Dover to West	Brick	24 x 36	267		2	
Spruce	Wilson to Hall	"	24 x 36	565		1	
Granite	West to Barr	"	22 x 33	379		1	
Granite	Main to Dover	"	24	275		1	
Belmont	Spruce to Massabesic	Akron	20	156		1	
Ferry	River St. to Merrimack river	"	20		108		
Massabesic	Belmont to Cypress	"	20	1,874		4	
Spruce	Hall to Belmont	"	20	286		1	
Spruce	At Massabesic	Iron	20	45			
Elm east back	At Sagamore	Akron	15	26			
Granite	At Merrimack river, west side	"	15	23			
Massabesic	At Belmont	"	15		80		
Merrimack	From Pine westerly	"	15	509		3	
Sagamore	At Elm east back	"	15	22			
West	Granite to Douglas	"	15		279	1	
Merrimack	West of Chestnut	Iron	14	12			
Adams	From Clarke northerly	Akron	12	315			1
Chestnut east back	From Merrimack southerly	"	12		25		
Clarke	Chestnut to Adams	"	12	271		1	
Hancock	From River road westerly	"	12	141			
Hanover	From Wilson easterly	"	12		414	1	
Harrison	Beech east back to Ash east back	"	12		297	1	
Merrimack	At Pine	"	12	35			
North	River road to Chandler	"	12	550		2	2
River road	From Hancock northerly	"	12	407		1	
Sagamore	Elm east back to Bay	"	12	163		1	
West	Douglas to Conant south back	"	12		149	1	
Wilson	Merrimack to Hanover	"	12	552		2	
Ash east back	From Harrison northerly	"	10	170			
Bay	From Sagamore northerly	"	10	86		1	1
Chandler	North to North north back	"	10	172		1	
Concord	From Maple easterly	"	10	229			
High, East	Between Nashua and South	"	10		32		1
North north back	Chandler to Elm west back	"	10		200		2
Pearl	From Ashland easterly	"	10	145			1
Ray	From Appleton southerly	"	10	102			
Spruce south back	From Lincoln westerly	"	10	85			1
Cartier east back	Amory to Amory south back	"	8	251			
Laurel	From Wilson westerly	"	8	72			
				8,351	1,743	29	9

PIPE REMOVED WHERE NEW SEWERS HAVE BEEN BUILT.

STREET.	Location.	Material	Size in inches.	Length in feet.
Ferry	River St. to Merrimack river	Cement.	16 x 24	108
Granite	Dover to West	"	12	18
Wilson	Merrimack to Hanover	"	12	325
Granite	Dover to West	Akron.	10	189
Granite	West to Barr	Cement.	10	379
Granite	Main to Dover	"	9	275
				1,204

SUMMARY.

Total 48-inch steel				312 feet.
" 24 x 36 inches, brick				712 "
" 22 x 33 " "				379 "
" 24-inch brick				275 "
" 20-inch Akron pipe				2,424 "
" 20-inch iron "				45 "
" 15-inch Akron "				939 "
" 14-inch iron "				12 "
" 12-inch Akron "				3,319 "
" 10-inch " "				1,354 "
" 8-inch " "				323 "
" 12-inch " "	cesspools and connections,			10 "
" 10-inch " "	" "			258 "
" 8-inch " "	" "			1,184 "
" 6-inch " "	" "			246 "

Total sewers built in 1890 11,792 feet.

Equal to 2.23 miles.

Following is the total amount of sewerage in the city January 1, 1891.

8-inch Akron pipe				6,456 feet.
10-inch " "				37,246 "
12-inch " "				57,433 "
15-inch " "				13,963 "

18-inch Akron pipe	2,835 feet.
20-inch " "	4,893 "
24-inch " "	<u>3,110 "</u>

Total Akron pipe 125,936 feet.

Equal to 23.852 miles.

8-inch Portland pipe	90 feet.
12-inch " "	3,990 "
18-inch " "	<u>770 "</u>

Total Portland pipe 4,850 feet.

Equal to 0.919 miles.

9-inch cement pipe	16,071 feet.
10-inch " "	161 "
12-inch " "	22,064 "
15-inch " "	490 "
18-inch " "	860 "
24-inch " "	735 "
16 x 24 inches, cement pipe	<u>1,697 "</u>

Total cement pipe 42,078 feet.

Equal to 7.969 miles.

10-inch earthen pipe	1,175 feet.
12-inch " "	<u>2,545 "</u>

Total earthen pipe 3,720 feet.

Equal to 0.704 miles.

18-inch brick sewers	5,725 feet.
24-inch " "	3,187 "
29-inch " "	1,600 "
36-inch " "	545 "
42-inch " "	446 "
44-inch " "	1,195 "
57-inch " "	1,400 "
17 x 26 inches, brick sewers	1,527 "
20 x 30 " " "	1,197 "

22 x 33 inches, brick sewers	379 feet.
24 x 36 " " "	8,954 "
29½ x 44 " " "	4,530 "
30 x 46 " " "	1,360 "
32 x 48 " " "	3,279 "
40 x 44 " " "	790 "

Total brick sewers 36,114 feet.

Equal to 6.839 miles.

14-inch iron pipe	12 feet.
20-inch " "	45 "
36-inch " "	277½ "

Total iron pipe 334½ feet.

Equal to 0.064 miles.

48-inch steel pipe 312 feet.

Equal to 0.052 miles.

Total in all sewers 213,344½ feet.

Equal to 40.406 miles.

Some of the important work attended to this year may prove of interest and is herewith given:

The entire city has been systematically and thoroughly gone over and a list made of all house numbers required. Owing to the extension of the free-delivery system by the post-office authorities, the suburbs of East and South Manchester were included in this list. Three thousand nickel numbers have been purchased, but on account of the lack of funds only a few were placed on the buildings. The work will be completed the coming year.

Considerable time has been devoted to assisting the city auditor in preparing drafts of his books, bills, balance sheets, etc., for the printer, also in investigating accounts rendered for work done on the city buildings where he was in doubt.

Under the instructions of a special committee, one hundred and seventy-three street signs were located, the majority of which have been placed in position.

Early in the season the subject of new water carts was broached. At first it was intended to procure what is known as the "Centrifugal Street Sprinkler," but the amount asked being more than the committee desired to expend, an ordinary, old-style watering cart was purchased in its stead, and two already owned by the city repaired.

After the fire in the basement of the City Hall in February, the doors in that part of the building were tinned to prevent fire from being communicated to other rooms than the one where it originated.

Conferences were had with a special committee of the city government in relation to the disposal of garbage, and in company with them and the board of health investigations were made of a system of cremation. The expense of construction being considerable and the idea being in a rudimentary state, it was deemed advisable to employ other means. A contract was made for removing the material to the suburbs, and plans showing the district to be covered were made in the office.

Numerous complaints having been made regarding the outlet of the main sewer south of the lower canal weir, the committee on sewers ordered plans prepared for extending this sewer into the river below low-water mark by means of a forty-eight-inch steel pipe. Considerable time was demanded of the office in preparing plans and superintending the construction of the sewer. The contract was awarded Richard Dobbins, of Lowell, and the work done in a highly satisfactory manner.

Plans were prepared for an addition to the N. S. Bean steamer quarters at the central station, including extra engine room, extra stall, smoking room, bath and sleeping rooms. Plans were also made for improvements in the rooms of the chief engineer and chemical engine company, and for remodeling the stall floors in the various houses in accordance with the latest system.

By order of the mayor, all lines, grades, levels, and measurements required at the government building for completing the grounds and approaches were given.

The system of sewerage as accepted by the previous city government called for a main sewer through Douglas street empty-

ing into Piscataquog river. Certain abutters objecting, and finding that such objection would be sustained by the courts, a new plan of the entire section drained by the Douglas-street sewer was prepared, providing for a main connecting with the sewer in Main street. Work was begun early in the season and the sewer built to the corner of Granite and Barr streets.

Considerable time has been spent in the Pine Grove cemetery, the more important pieces of work being the laying out of lots on the new Riverside lawn, preparing plans for the curbing at James A. Weston's lot on Landscape lawn, and levels, plans, and grades incident to the remodeling of the Bean, Gerrish, and Hosley lots on Landscape lawn.

The question of providing more commodious buildings at the city farm was brought before the committee on lands and buildings. Under their instructions a survey and plan was made showing the present structure and in what manner improvements could be made. Plans were also prepared calling for a new building of brick, three stories high and so constructed as to admit of the paupers and prisoners being kept entirely separate, each having their own dining, sleeping, and bath rooms. The new building would be practically fire proof and far more suitable than the present cramped quarters.

Several plans were made for improvements in Hanover square relating to a fountain or pond basin. The committee deciding to lay the matter over, grades were given for completing the fill.

Measurements were made for the amount of plank necessary for replanking Amoskeag and Granite bridges, also for repairing the roof of the former and for the iron rods replacing those broken on McGregor bridge.

By order of the mayor, all lines and grades required at the Elliot Hospital for grading and for the concrete walks were given.

The contract for building Beauport street to the sub-grade was awarded to George Whitford and lines and grades given for the work. Through carelessness and ignorance on the part of the workmen the stakes were displaced several times, necessitating re-setting them at considerable expense. On account of the slow

progress made the ground became frozen before the work was completed. Levels were taken and the amount of earth removed computed.

The plans for the city stable made last year were modified to admit of constructing the offices in the main building which has since been built. The batters for the building were set and daily visits made during the progress of construction.

Plans and specifications were prepared for enlarging the Masabesic-street culvert at Cemetery brook and a general oversight given to the work. At this point the Spruce-street sewer crosses beneath the brook, forty-five feet of iron pipe being used.

A complete plan of the city yard has been made, showing the location of all the buildings, including the new stable.

In West Manchester the Ferry-street sewer outlet has been relaid. On removing the old cement pipe it was found to be nearly filled with roots, rendering it useless. It was relaid with 20-inch Akron pipe.

The lines of Candia and Hanover street roads, as determined, have been plotted, and accepted by the city government.

In rebuilding the crossings at Hanover and Chestnut streets two parallel rows of flag stones were laid on the outer edges and the space between concreted, this having been proven to be the best form of a crossing.

Chapter 51, section 2, of the General Laws of the State provides for the perambulation of the town lines every seven years. Agreeable to notices received from the selectmen of Auburn, Bedford, Goffstown, Litchfield, and Londonderry, and by order of the mayor, the lines adjoining each town have been perambulated in company with each town's selectmen. The marks on every bound have been renewed, and twelve new bounds set to replace those liable to be removed by persons mistaking them for common stones. One of these bounds was placed on the Auburn line, and the remainder on the Londonderry line, including one at the corner of Auburn and Londonderry and line of Manchester, known as 134. I would suggest that all of the remaining bounds be replaced by substantial stones, many of the present bounds being nothing but round bowlders or wall stones.

The abutters' names have been procured for the city clerk on all new streets laid out and on all streets where the street railway company has petitioned to lay tracks. In connection with this, lot areas have been given to the different officials as occasion required.

Levels have been taken and surveys made for a bridge at Second street, and plans showing the desired grade transmitted to the acting superintendent of the Concord & Montreal Railroad, construction department. The plans for the bridge and abutments have been made by the railroad officials.

In compliance with the request of Dr. John S. Billings, surgeon, U. S. A., special agent of the census office, numerous blanks were filled out in relation to social statistics of cities. A brief synopsis is herewith given :

The highest point in the city above mean sea level is 539 feet, the lowest, 129 feet.

There are three cemeteries belonging to the city having a combined area of 84.55 acres, and twelve private cemeteries containing 42.5 acres. The average yearly number of interments in all cemeteries for the past ten years has been 746.3.

The total length of all sewers in the city is 38.9 miles, of which 33 miles are pipe sewers and 5.9 miles brick. The largest sewer is 57 inches in diameter and the smallest 8 inches. There are six outlets, all discharging into the river, — two above high water mark and four submerged from 1 to 8 feet. In connection with the sewers are 1,939 house drains, 1,232 catch-basins, 220 manholes, and 38 lampholes.

The city has seven parks with a total area of 93.3 acres. Six of these, with an area of 25.3 acres, are inside the city limits; five of the parks, containing 19.1 acres, are improved, and two, containing 74.2 acres, are not open to the public. All of the parks were either given to the city or set apart from city land. They have 300 feet of driveways and 2.4 miles of footways. The average yearly cost of maintenance of all parks for the past ten years has been \$2,770.77.

The city owns wholly or in part 38 public buildings, of which

1 is built of brick and stone, 21 of brick, and 16 of wood. Of the 25 schoolhouses, 11 are built of wood and 14 of brick.

There are in the city 146.6 miles of streets and roads, built of the following materials: cobble, 0.14 miles; stone block, 2.18 miles; concrete, 0.2 miles; McAdam, 5.9 miles; gravel, 138.2 miles. The common width of streets is 50 feet; the widest street is 100 feet and the narrowest 20 feet. There are 196.7 miles of sidewalks in the city, the width averaging one third the width of the street. About 90 miles of the streets have shade trees.

Only the more important answers are given here, the entire list required occupying eight pages.

In addition to this, many questions have been answered from engineers, boards of trade, and others in various cities throughout the country.

I would respectfully tender my acknowledgments to His Honor the Mayor and the various committees of the city council, for the support which they have given.

I wish also to acknowledge the courtesies shown by the various heads of departments, and the co-operation of the assistants of this department.

Respectfully submitted.

WINFRED H. BENNETT,

City Engineer.

JANUARY 1, 1891.

REPORTS OF DISTRICT SURVEYORS.

Report of the work done in the various highway districts during the year 1890 :

DISTRICT NO. 1.

JOHN C. RAY, SURVEYOR.

The road machine has been used throughout nearly the whole district and the small stones removed from the roads.

Rebuilt several small culverts and repaired the water bars where needed.

Built rail fence the entire length of the east side of the road on Clark's Hill.

During the season thirty-five loads of gravel were purchased at a cost of fifteen cents a load.

One hundred dollars remain of the year's appropriation which could be used to advantage in building Chestnut street from Clarke northerly.

DISTRICT NO. 2.*

WILLIAM SANBORN, SUPERINTENDENT.

COBBLE GUTTER PAVING.

	Feet.	Sq. Yds.
Beech street, Lake avenue to Cedar	880	293.3
Belmont street, Hanover to Amherst	630	210.0
Depot street, Elm westerly	30	10.0
Elm street, Blodget to Pennacook, W. side . .	200	66.7

* District No. 3 is now included in this district.

	Feet.	Sq. Yds.
Elm avenue, Elm to Calef road	700	233.3
Hanover street, Wilson to Milton	1,910	636.7
High street, Jane to Wilson road	193	64.3
Lake avenue, at Cass (relaid)	50	16.7
Lincoln street, Manchester to Merrimack	230	76.7
Lincoln street, Central to Lake avenue	220	73.3
Manchester street, Belmont to Milton	400	133.3
Pearl street, Elm to Chestnut	1,140	511.1
Pine street, Orange to Prospect	880	293.3
Pine street, Amherst to Concord	578	256.9
Union street, Lowell to Bridge	1,080	360.0
Wilson street, Manchester to Hanover	125	41.7
	<hr/>	<hr/>
Total cobble gutter paving	9,246	3,277.3

COBBLE EDGING.

Beech street, Lake avenue to Cedar	654 feet.
Belmont street, Hanover to Amherst	486 "
Elm street, Blodget to Pennacook, W. side	200 "
Elm avenue, Elm to Calef road	700 "
Hanover street, Wilson to Milton	1,550 "
High street, Jane to Wilson road	193 "
Lincoln street, Merrimack northerly	83 "
Manchester street, Belmont to Milton	400 "
Pearl street, Elm to Chestnut	439 "
Pine street, Orange to Prospect	880 "
Union street, Lowell to Bridge	1,080 "
	<hr/>
Total cobble edging	6,665 feet.

EDGE STONES.

New.

Auburn street, Pine to Beech	150 feet.
Beech street, at St. Augustine's church	200 "
Cedar street, west of Lincoln	88 "
Central street, Lincoln easterly	89 "

Central street, west of Franklin	95 feet.
Chestnut street, Hanover northerly	182 "
Elm street, Dean southerly	161 "
Hanover street, Chestnut easterly	262 "
Kidder street, west of Elm	16 "
Lake avenue, Chestnut west back westerly	25 "
Laurel street, Chestnut to Union	88 "
Lincoln street, Central to Lake avenue	216 "
Spruce street, Pine to Union	50 "
Union street, at High	97 "
	<hr/>
Total edge stones set	1,719 feet.

Edge Stones Reset.

Canal street, near passenger station	28 feet.
Chestnut street, Hanover northerly	18 "
Depot street, west of Elm	68 "
Granite street, at city yard	125 "
Hanover street, Pine westerly	163 "
Hanover street, Chestnut westerly	61 "
Pine street, Amherst to Concord	50 "
Pleasant street, Elm to Franklin	200 "
	<hr/>
Total edge stones reset	713 feet.

BLOCK PAVING RELAID.

	Feet.	Sq. Yds.
Canal street	215	238.9
Granite street	100	111.1
Hanover street	547	607.8
	<hr/>	<hr/>
Total block paving relaid	862	957.8

MACADAMIZING.

New.

	Feet.	Sq. Yds.
Beech street, Lake Avenue to Cedar	500	1,388.9
Belmont street, Hanover to Amherst	323	969.0
Elm street, Blodget to Pennacook, W. side	204	566.7

	Feet.	Sq. Yds.
Hanover street, Wilson to Milton . . .	1,122	4,481.3
Pearl street, Elm to Chestnut . . .	575	1,597.2
Pine street, Amherst to Concord . . .	289	802.8
Pine street, Orange to Prospect . . .	515	1,430.5
Union street, Lowell to Bridge . . .	586	1,627.8
	<hr/>	<hr/>
Total new macadamizing . . .	4,114	12,864.2

Top-Dressed.

	Feet.	Sq. Yds.
Franklin street, Granite northerly . . .	395	1,623.3
Lowell street, Pine easterly . . .	719	1,997.2
	<hr/>	<hr/>
Total top-dressed . . .	1,114	3,620.5

GRAVELED STREETS TOP-DRESSED WITH CRUSHED STONE.

	Feet.	Sq. Yds.
Central street, Milton easterly . . .	100	155.6
Hall street, Manchester southerly . . .	250	416.7
Hanover street . . .	434	115.6
Hollis street, Elm westerly . . .	110	427.8
Hooksett road, Webster northerly . . .	220	635.6
Lake avenue, near Beacon street . . .	225	500.0
Lake avenue, Cass easterly . . .	800	1,111.1
Lowell south back street, Chestnut westerly . . .	110	207.8
Milton street, Central southerly . . .	220	440.0
Pennacook street, Pine easterly . . .	450	1,450.0
Pine street, Prospect northerly . . .	263	730.6
Pine street, Pennacook southerly . . .	200	711.1
Wilson street, Hanover southerly . . .	214	404.1
Wilson street, Valley northerly . . .	275	70.3
	<hr/>	<hr/>
Totals . . .	3,871	7,376.3

CRUSHED STONE SENT FROM YARD.

District No. 6 . . .	6 loads.
District No. 10 . . .	602 "
Forsaith Machine Company . . .	170 "
General repairing . . .	108 "

Government building	13 loads.
Macadamizing	3,360 “
Top-dressing	1,007 “
	<hr/>
Total sent from yard	5,266 loads.
Stone chips drawn from ledge for general repairs and top-dressing	350 loads.
	<hr/>
Total stone used	5,616 loads.
Each load being equal to one cubic yard.	
Stone drawn from ledge to crusher	1,181 loads.
From all other sources	3,579 “
	<hr/>
Total	4,760 loads.

STREETS GRAVELED.

	Feet.	Sq. Yds.
Amherst street, Ashland westerly	700	1,244.4
Auburn street, Pine easterly	1,000	3,777.8
Beacon street, Manchester southerly	500	1,111.1
Belmont street, Manchester southerly	200	400.0
Bridge street, Hall westerly	1,100	2,566.7
Cedar street, Beech easterly	250	555.6
Chestnut street, Webster southerly	900	2,800.0
East High street, Maple easterly	1,050	2,450.0
Hanover street, Highland easterly	600	1,533.3
Hooksett road, north of Webster	1,100	2,200.0
Lake avenue, Mammoth road westerly	500	1,388.9
Laurel street, Beacon westerly	575	1,150.0
Liberty street, Webster southerly	500	1,555.6
Maple street, Cedar northerly	400	800.0
Maple street, Lowell southerly	925	2,466.7
Merrimack street, Hall westerly	775	2,066.7
Merrimack street, Hall easterly	500	944.4
Myrtle street, Ash easterly	200	355.6
Myrtle street, Russell easterly	400	888.9
Pine east back street, Lake avenue southerly	100	133.3
	<hr/>	<hr/>
Totals	12,275	30,389.0

STREETS TURNPIKED AND GRAVELED.

Baker street	1,875 feet.
Calef road	8,875 "
Cilley street	1,125 "
Elm street	3,000 "
Hancock street	1,125 "
Highland street	1,250 "
Nutt road	4,500 "
Pine street	9,375 "
Shasta street	750 "
Valley street	2,250 "
Total	<u>34,125 feet.</u>

STREETS TURNPIKED WITH ROAD MACHINE.

Amherst street	1,150 feet.
Arlington street	1,344 "
Ash street	500 "
Auburn street	1,000 "
Beacon street	1,200 "
Beech street	10,300 "
Belmont street	650 "
Calef road	1,000 "
Cass street	218 "
Cedar street	1,200 "
Central street	1,500 "
Chestnut street	1,000 "
Elm street	1,200 "
Harrison street	3,100 "
Hooksett road	5,300 "
Jane street	400 "
Kennard road	2,000 "
Lake avenue	3,450 "
Langdon street	1,300 "
Laurel street	6,050 "
Lincoln street	900 "
Maple street	1,885 "
Milton street	650 "

Myrtle street	423 feet.
Nashua street	700 "
North street	550 "
Oak street	1,450 "
Old Bridge street	1,725 "
Pearl street	400 "
Pennacook street	929 "
Pine street	1,128 "
Prospect street	3,000 "
River road	3,350 "
Russell street	1,190 "
Sagamore street	450 "
Smyth road	5,500 "
Spruce street	2,700 "
Union street	1,650 "
Walnut street	1,792 "
Total	<u>74,234</u> feet.

STREETS GRADED.

By cut.

	Feet.	Cu. Yds.
Chestnut street, Webster southerly	600	333.3
Elm avenue, Elm to Calef road	375	95.0
Liberty street, Webster southerly	400	414.7
Manchester street, Belmont easterly	230	212.7
Manchester street, Milton easterly	250	1,481.4
Maple street, Harrison northerly	250	231.4
North street, Pine easterly	150	313.3
Orange street, Ashland easterly	147	98.0
Pearl street, Ashland easterly	250	641.8
Webster street, east of Hooksett road	450	3,107.4
Totals	<u>3,102</u>	<u>6,929.0</u>

The cut on Manchester street, east of Milton street, was through ledge the entire distance.

By fill.

	Feet.	Cu. Yds.
Ash street, Gore southerly	100	255.5
Belmont street, Central southerly	200	266.6
Chestnut street, Pennacook northerly	500	2,592.5
Prospect street, Russell easterly	300	777.7
Sagamore street, Chestnut easterly	100	1,851.7
Webster street, Hooksett road easterly	2,300	6,785.0
Wilson road, Bridge southerly	33 ^s	650.9
Totals	3,838	13,179.9

GRADING FOR CONCRETE.

By cut.

	Feet.	Cu. Yds.
Belmont street, Hanover northerly	163	96.5
Hanover street, Belmont easterly	77	34.2
Liberty street, North northerly	50	22.2
North street, Chestnut easterly	75	11.1
North street, Liberty westerly	100	44.4
Totals	465	208.4

By fill.

	Feet.	Cu. Yds.
Ash street, Myrtle northerly	225	32.7
Ashland street, Hanover northerly	125	74.1
Auburn street, Union westerly	150	22.2
Auburn street, Union easterly	150	44.4
Auburn street, Beech easterly	100	148.2
Bakersville	5,280	782.2
Beech street, Gore northerly	100	129.6
Belmont street, Lake avenue northerly	100	29.6
Belmont street, Amherst northerly	120	53.3
Bridge street, Russell westerly	100	25.9
East High street, Wilson road easterly	50	29.6
Elm street, Orange northerly	120	71.1
Gore street, Union easterly	100	59.2
Hanover street, Ashland westerly	100	37.1

	Feet.	Cu. Yds.
Lowell street, Maple easterly	150	44.4
North street, Elm westerly	100	88.8
North street, Chestnut easterly	100	29.6
Prospect street, Beech easterly	220	65.2
Sagamore street, Elm easterly	100	15.1
Sagamore street, Pine easterly	100	59.2
Walnut street, Gore northerly	75	66.6
Wilson road, Bridge southerly	376	194.9
Winter place, Elm westerly	75	27.7
	<hr/>	<hr/>
Totals	8,116	2,130.7

This refers only to the larger fills, as in many places only a few yards have been used, scattered here and there.

SEWERS AND DRAINS.

48-inch steel	312 feet.
24 x 36 inches, brick	505 "
20-inch Akron pipe	2,328 "
20-inch iron pipe	33 "
15-inch Akron pipe	531 "
15-inch Akron pipe (relaid)	106 "
14-inch iron pipe	12 "
12-inch Akron pipe	2,434 "
12-inch Akron pipe (relaid)	736 "
10-inch Akron pipe	989 "
10-inch Akron pipe (relaid)	365 "
8-inch Akron pipe	72 "
	<hr/>
Total	8,423 feet.

CESSPOOL CONNECTIONS.

10-inch Akron pipe	34 feet.
8-inch Akron pipe	718 "
8-inch Akron pipe (relaid)	42 "
	<hr/>
Total	794 feet.
Total pipe laid	9,217 feet.
Equal to 1.75 miles.	

Following is the amount paid for labor on the various sewers during the year :

STREET.	Labor of men.	Labor of teams.	Total.
Belmont and Massabesic	\$4,863.11	\$148.00	\$5,011.11
City stable with Granite	210.87		210.87
Clarke and Adams.....	1,250.71	60.00	1,310.71
Concord.....	220.08	10.00	230.08
East High.....	74.75	5.00	79.75
East Spruce	2,043.77	110.00	2,153.77
Hancock and River road.....	500.16	36.00	536.16
Hanover.....	343.68	18.00	361.68
Harrison and Ash east back	810.64	16.00	826.64
Laurel.....	51.84	15.00	66.84
Main sewer outlet.....			978.56
Merrimack.....	950.75	42.00	992.75
North, Chandler, and North north back..	972.23	111.00	1,083.23
Pearl	122.40	18.00	140.40
Ray	75.61	5.50	81.11
Sagamore and Bay	237.25	13.50	250.75
Wilson.....	295.47	32.00	327.47
			\$14,641.88

Paid Concord Railroad for labor of men and material for fill at main sewer outlet, \$273.06.

ON HAND AT CITY YARD.

24-inch Akron pipe	46 feet.
20-inch Akron pipe	366 "
15-inch Akron pipe	164 "
12-inch Akron pipe	1,096 "
10-inch Akron-pipe	700 "
8-inch Akron pipe	1,204 "
Total pipe on hand	<u>3,576 feet.</u>

- 4 Y branches, 8 on 20 inches.
 20 Y branches, 8 on 15 inches.
 7 Y branches, 6 on 15 inches.
 21 Y branches, 8 on 12 inches.
 1 Y branch, 10 on 10 inches.
 2 Y branches, 8 on 10 inches.
 32 Y branches, 8 on 8 inches.
 6 15-inch quarter turns.
 10 12-inch quarter turns.
 11 10-inch quarter turns.
 11 8-inch quarter turns.
 1 6-inch quarter turn.
 11 15-inch curves.
 5 10-inch curves.
 1 reducer, 15 to 10 inches.
 22 20-inch rings.
 6 manhole covers.
 4 cesspool traps.
 12 oval cesspool grates.
 4 flat cesspool grates.
 4 cesspool curbs.
 4 water gate covers.
 10 M. brick.
 1 barrel cement.
 13,440 feet of new hemlock plank.
 2,000 feet of old hemlock plank.
 20 cords of hard wood.
 Catch-basins built, 43; repaired, 30; manholes built, 25;
 lampholes built, 9.

CROSSINGS.

Concrete, new, 25; top-dressed, 7; patched, 3.
 Stone, new, 6; relaid, 11.

CONCRETE.

Crossings (new)	. . . . .	812.7 sq. yds.
Crossings (patched)	. . . . .	45.0 "

Crossings (top-dressed)	179.3 sq. yds.
Belmont and Hanover streets, at Dea. James Baldwin's	361.5 "
Chestnut and Myrtle streets, at Gen. Charles Williams's	113.9 "
City stable	314.0 "
Concord square (top-dressed)	1,892.5 "
Elm street, at Aretas Blood's	102.0 "
Hanover square	643.6 "
Lincoln-street school yard (new)	221.7 "
Lincoln-street school yard (top-dressed)	307.1 "
Merrimack square (new)	72.6 "
Merrimack square (top-dressed)	<u>1,394.7</u> "
Total	6,460.6 sq. yds.

CONCRETE ROADWAYS.

Bridge street (repaired)	239.4 sq. yds.
Chestnut street	930.9 "
Granite street	281.1 "
Merrimack street	<u>2,100.6</u> "
Total	3,552.0 sq. yds.

CONTRACT WORK.

Massabesic-street culvert : Warren Harvey, contractor.

PIPE CULVERTS.

Belmont street, at Dea. James Baldwin's, 12-inch iron	46 feet.
Belmont and Central streets, 10-inch iron	50 "
Hanover, east of Belmont, 8-inch iron	12 "
Laurel street, east of Beacon, 12-inch Akron	22 "

Bushes have been cut from sides of roads for a distance of two miles.

DISTRICT NO. 4.

RODNEY N. WHITTEMORE, SURVEYOR.

Turnpiked 100 rods.

Graded and graveled 236 rods.

Cobble gutters paved, 500 feet, 166.7 sq. yds.

Laid 40 feet of 12-inch Akron pipe.

Extended the sidewalk on the north side of Depot road from the main road to the depot.

Four hundred loads of gravel were used and five hundred feet of cobble edging laid.

Repaired bridges, cut bushes, removed stones from roadbed, and made general repairs where needed.

DISTRICT NO. 5.

MARK E. HARVEY, SURVEYOR.

Graveled	4,170 feet.
Turnpiked	2,340 "
Turnpiked and graveled	1,140 "
Graded (cut)	9,458 cu. ft.

Taken up, cleaned, and relaid two stone culverts.

Replanked twelve feet of center of bridge over Cohas brook, also small bridge near the old Harvey mill. This latter bridge should be rebuilt the coming season. The timbers are badly decayed and in its present condition it is unsafe for loaded teams to cross.

Cut bushes on three and one half miles of road.

Laid 48 feet of 8-inch pipe.

Removed stones from road and made all general repairs.

A larger appropriation is necessary in this district, as many needed improvements are called for which cannot be made, as the present amount is only sufficient for the regular work.

DISTRICT NO. 6.

ALBERT J. PEASLEE, SURVEYOR.

Graveled	320 rods.
Turnpiked	42 "

Built three stone culverts, one 18" × 18" × 24', one 15" × 15" × 24', and one 12" × 12" × 17'.

Raised Island Pond road from six to twelve inches for a distance of two hundred feet, across the bog.

Made all necessary repairs throughout the district.

DISTRICT NO. 7.

CHARLES FRANCIS, SURVEYOR.

GRAVELED.

Belmont street	15 rods.
Candia road	30 "
Falls roads	20 "
Massabesic street	25 "
Taylor street	70 "
Valley street	80 "
Young road	30 "
<hr/>	
Total	270 rods.

Graded and graveled Cypress street, 450 feet long, 50 feet wide.

TURNPIKED AND GRAVELED.

Hall road	70 rods.
Valley street	28 "
<hr/>	
Total	98 rods.

GRADING FOR CONCRETE.

Belmont street	50 feet.
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Cypress street	800 feet.
Massabesic street	<u>300 "</u>
Total	1,150 feet.

GUTTERS.

	Feet.	Sq. Yds.
Belmont street	700	233.3
Cypress street	800	266.7
Massabesic street (relaid)	<u>400</u>	<u>133.3</u>
	1,900	633.3

CESSPOOLS AND CONNECTIONS.

Belmont street at Massabesic	2
Massabesic street at Belmont	2
Massabesic street at Spruce	2
15-inch Akron pipe (new)	40 feet.
15-inch Akron pipe (relaid)	40 "
10-inch Akron pipe	160 "

Repaired stone culvert 3 by 4 feet on Young road and lengthened the same 20 feet.

Built two stone culverts, one 14" \times 18" \times 40', and one 12" \times 14" \times 20'.

Made general repairs throughout the district where most needed.

DISTRICT NO. 8.

LEVI J. PROCTOR, SURVEYOR.

No report.

DISTRICT NO. 9.

ALPHONSO N. BOYCE, SURVEYOR.

No report.

DISTRICT NO. 10.

CHARLES O. PHELPS, SUPERINTENDENT.

COBBLE GUTTER PAVING.

	Feet	Sq. Yds.
Bowman street, Mast southerly	750	250
Bridge street, McGregor easterly	100	33
Carroll street, south of Amherst road	120	40
Douglas street, West easterly	58	19
Douglas street, Barr easterly	100	33
Granite street, Main westerly	400	133
Main street, Douglas northerly	1,282	427
Main street, Hancock northerly	58	19
Wayne street, Beauport westerly	600	200
West street, Douglas northerly	112	37
West Hancock street, Main easterly	50	17
Totals	<u>3,630</u>	<u>1,208</u>

COBBLE EDGING.

Bowman street, Mast southerly	750 feet.
Bridge street, McGregor easterly	100 "
Carroll street, Amherst road southerly	120 "
Main street, Douglas northerly	1,312 "
Main street, West Hancock northerly	58 "
Wayne street, Beauport westerly	600 "
West Hancock street, Main easterly	50 "
Total	<u>2,990 feet.</u>

EDGE STONES.

Douglas street, West easterly	58 feet.
Main street, Douglas northerly	250 "
Main street, Monmouth northerly	150 "
West street, Douglas northerly	112 "
Total	<u>570 feet.</u>

MACADAMIZING.

Main street, engine-house to Adams street, 675 feet, 2,550 square yards.

GRAVELED STREETS TOP-DRESSED WITH CRUSHED STONE.

Main street, Granite to Douglas, 372 feet, 1,166 square yards.

STREETS GRAVELED.

	Feet.	Sq. Yds.
Amory street, at Beauport	100	378
Beauport street, Conant northerly	432	1,632
Boynton street	1,200	4,533
Douglas street	400	1,511
Granite street, Dover to Barr	450	1,400
Main street, Monmouth northerly	630	2,380
Mast road	500	1,888
Third street, Fourth to Walker	200	755
Wayne street, Main to Dubuque	950	3,588
West street, Douglas to Conant	250	944
Total	5,112	19,009

STREETS GRADED.

	Feet.	Cu. Yds.
Bowman street, Mast to Milford	837	2,046
Fourth street, School to Walker	350	620
Main street, Granite to Sullivan	2,181	2,058
School south back street, Third to Fourth	250	240
Walker street, River to Second	200	311
Total	3,818	5,275

GRADING.

Kelly street at Beauport, 260 feet, 481 cubic yards.

Varney school lot, 1,481 cubic yards.

TURNPIKING.

Morgan street, Amory to Kelly, 650 feet, 2,210 square yards.

CONCRETE.

Seven crossings	186.0 sq. yds.
Main street, roadway	369.2 "
Main street, at engine-house (new)	259.0 "
Main street, at engine-house (patched)	59.3 "
Main street, at engine-house cellar (patched)	19.9 "
Main street, sidewalk at Mr. Bailey's	52.4 "
McGregor and Marion streets, roadway	171.6 "
	<hr/>
Total	1,117.4 sq. yds.

CONTRACT WORK.

Beauport street, sub-grading, George Whitford contractor.

Parker-street bridge has been replanked, using 4,034 feet of hemlock plank, also the culvert at the junction of Old and New Mast roads, using 1,568 feet of plank.

The following tables give an itemized account of the two principal sewers constructed in the district this year.

GRANITE-STREET SEWER.

Length, Main to Barr street, 861 feet.

Brick, 103,93, at \$6.50 per M	\$675.55
Cement, 273 bbls. Norton's and 2 bbls. Portland	416.00
Manhole castings, 1,066 lbs. at \$0.03 per lb	31.98
Labor of men and teams	4,973.00
Car fare, carrying battery	9.50
Damage to buildings by blasting	14.00
Lumber for cribbing trench, 25,500 feet	459.45
Ropes, snaps, etc.	3.57
Blacksmithing	268.36
Hardware and oil	55.65
Material for blasting	133.08
	<hr/>
Total	\$7,040.14

Akron pipe used in cesspools and connections :

12-inch, 10 feet ; 10-inch, 6 feet ; 8-inch, 164 feet ; 6-inch 186 feet.

The cost of constructing this sewer was greatly augmented by the large amount of ledge encountered.

WEST-STREET SEWER.

Length, Granite to Conant south back street, 428 feet.

Brick, in manholes, 4,000 at \$6.50 per M.	\$26.00
Cement, 8 bbls. Norton's	12.00
Manhole castings, 533 lbs. at \$0.03 per lb	15.99
Lumber for cribbing trench, 4,180 feet	73.66
Labor of men and teams	947.75
Total	\$1,075.40

15-inch Akron pipe, relaid, 217 feet; new, 62 feet.

12-inch Akron pipe, relaid, 137 feet; new, 12 feet.

 Akron pipe in cesspools and connections, 10-inch, 8 feet;
8-inch, 56 feet; 6-inch, 60 feet.

SEWERS AND DRAINS.

24 x 36 inches, brick	207 feet.
22 x 33 inches, brick	379 "
24-inch, brick	275 "
20-inch, Akron pipe, relaid	108 "
15-inch " " new	85 "
15-inch " " relaid	262 "
12-inch " " "	149 "
8-inch " " "	251 "
12-inch " " in cesspools and connections	10 "
10-inch " " " " "	64 "
8-inch " " " " "	424 "
6-inch " " " " "	246 "

Total sewers 2,415 feet.

Cesspools built, 11; manholes, 6.

PIPE ON HAND AT YARD.

200 feet of 24-inch Akron, 50 feet of odd sizes.

Total amount of cement used in sewers, 295 barrels.

Total number of brick used in sewers, 114,931.

Paid for tools used on sewers, \$180.39.

DISTRICT NO. 11.

WILLIAM H. COLBY, SURVEYOR.*

No report.

Concrete, Falls road, 1,190.7 square yards.

FRANK D. HANSCOM.†

General repairs.

DISTRICT NO. 12.

LEROY M. STREETER, SURVEYOR.

The road machine has been used to good advantage in the district this year. Mammoth road from Hanover to Bridge street and a portion of Bald Hill road have been turnpiked.

A bank wall has been built on the Mammoth road near the city farm buildings, 390 feet long, containing ninety perch of stone and one hundred cubic yards of cobble stone and other filling. Four hundred feet of 3 x 4 railing has been built, supported by one-inch iron rods firmly cemented in the wall.

The road is now from four to ten feet wider than formerly, and is much safer for public travel.

The James Hall road has been widened at Mr. Plummer's, using fifty cubic yards of fill.

General repairs have been attended to on all roads throughout the district.

DISTRICT NO. 13.

JOHN H. CAMPBELL, SURVEYOR.

No report.

*To September. †From September.

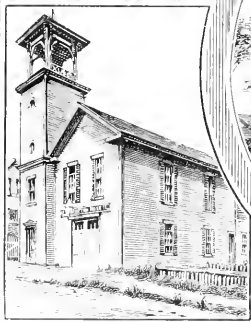
REPORT

3

OF THE

CHIEF ENGINEER OF FIRE DEPARTMENT.

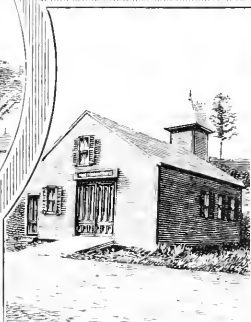




26. CLINTON STREET.



27. FIRE KING, NO. MAIN ST.



29. INDEPENDENT HOSE CO.



25. CENTRAL FIRE STATION.

REPORT
OF THE
CHIEF ENGINEER OF FIRE DEPARTMENT.

ENGINEER'S OFFICE, VINE STREET,
MANCHESTER, N. H., December 31, 1890.

To His Honor the Mayor, and Gentlemen of the City Councils :

In compliance with the laws and ordinances of the city, I herewith submit my twelfth annual report (it being the forty-fifth of this department), giving a complete record of the operations of the department for the year ending December 31, 1890; also giving a detailed statement of the fires and alarms responded to, with the losses, the insurance carried upon the property endangered, the insurance paid thereon, and causes, so far as could be ascertained by inspection and inquiry. The report will also contain a complete list of the working force of the department, giving their rank, occupation, residence, etc., a list of the fire-alarm stations and locations of keys to the same, location of hydrants, etc.

During the past year the department has responded to thirty-five "bell alarms" and thirty "stills," making a total of sixty-five, a slight increase over last year, although many of the "stills" were of little or no consequence and some of them entirely needless.

The total insurance on the property endangered by fire, as will be seen by the list in the following pages, was \$229,150.00 ;

the damage resulting therefrom has been \$16,533.28 and the amount of insurance paid \$10,026.28, leaving only \$6,507.00 as uncovered losses.

THE FORCE

of the department consists of eighteen permanent men and one hundred and six call men, divided as follows :

- 1 Chief Engineer.
- 4 Assistant Engineers.
- 5 Steamer Companies of 14 men each.
- 2 Horse Hose Companies, — 12 men each.
- 1 Hook-and-Ladder Company, — 20 men.
- 1 Chemical Engine Company, — 5 men.

In addition to the above there is a volunteer hand-hose company in Amoskeag village of twelve men.

The two Steamer companies at the Central Station, Nos. 1 and 4, in close proximity to the business portion of the city, are both without permanent engineers, and the increasing demands upon the department should warrant the increase of the permanent force that one should be assigned to each of these companies.

THE BUILDINGS.

The roof of the Central Station requires some repairs ; the tin on the east slope should receive a coat of paint to prevent its further rust and the entire roof of the stables in the rear should be re-graveled, as in its present condition much of the hay is wasted by the leakage of water.

THE APPARATUS

as at present located consists of —

2 Steam Fire-engines at Central Station with Horse Hose Wagons.

1 Steam Fire-engine with two-horse Hose Wagon and Hook-and-Ladder combination, North Main street.

1 Steam Fire-engine and Horse Carriage, at corner of Lake avenue and Massabesic street.

1 Steam Fire-engine and two-horse Hose Carriage and Hook-and-Ladder combination, at corner of Webster and Chestnut streets.

1 Horse Hose Carriage at Central Station.

1 Horse Hose Carriage, corner Maple and East High streets.

1 Hook-and-Ladder Truck at Central Station.

1 Hook-and-Ladder Truck (old), at Lake Avenue Station.

1 Double Tank (60 gallons each) Chemical Engine at Central Station.

1 Supply Wagon at Central Fire Station.

1 Steam Fire-engine (reserve) at old engine-house, Clinton street, of but little use for fire purposes.

1 Hand Hose Carriage at junction of Old Falls road and Front street, Amoskeag.

1 Two-wheeled Hose Carriage, Derry Mills, Goffe's Falls.

On the eighteenth of December, the one-horse hose carriage run in connection with Fire King Steamer No. 2 was exchanged for a two-horse combination hose wagon carrying six ladders. This change will enable the company to have a few ladders to use until the arrival of the truck from this side of the river.

On the thirty-first of December, the "jumper" attached to N. S. Bean Steamer No. 4 was discarded and a modern one-horse hose wagon placed in its stead.

During the month of April the Pennacook hose carriage was supplied with a new set of rear wheels, the front ones sent to the manufacturer and received new rims, and the carriage painted at the expense of \$220.19.

In August the N. S. Bean steamer was taken to the Manchester Locomotive Works and thoroughly overhauled and supplied with a new set of tubes, at the expense of \$335.55.

THE FIRE-ALARM TELEGRAPH.

Satisfactory results have attended the working of this important auxiliary of the department when called upon to perform service, and only once during the year has a second alarm been given for the same fire. (French Catholic Church, October 17.)

There have been no additional stations added during the year,

although two have been ordered and will be placed in service in due time.

I desire to enter my protest against the granting of licenses to irresponsible persons to move buildings through our streets, especially where it interferes with, and requires cutting our fire-alarm wires. On one occasion during the summer, one of our circuits was open during an alarm of fire. Had there been a fire in that vicinity then it would have been impossible to give an alarm by telegraph for a number of hours.

Another standing evil is the "Acoustic" telephones. Our lines have received more annoyance from these wires than from all other sources combined. From their nature the wires cannot be put up as firmly as others, and the whole southeastern section of the city was cut out by a cross from these wires for several hours before the cause could be found. Serious results may follow their continuance.

There are now about thirty (30) miles of main lines wire and twenty-nine (29) miles of "Tapper" lines, that require the services of four hundred and eleven (411) jars of gravity battery.

THE HORSES.

There are at present twenty-six horses connected with this department.

During the year one pair of grays have been purchased to take the place of the single horse on the Combination horse carriage of Steamer No. 5, and a pair of grays for the new combination horse wagon that took the place of the one-horse carriage of Steamer No. 2.

Two or three changes of horses should be made the coming year, by exchanging some unfit for fire service.

THE ANNUAL PARADE.

The eleventh annual parade occurred on Thursday, October 9, and was observed in the usual manner of a street parade, followed by collation in the City Hall. The bills for the parade amounted to \$343.85. Notwithstanding an appropriation of \$500 was made by the City Councils in accordance with section

8 of chapter 8, City Ordinances, the city auditor refused to approve the bills and even after being authorized by vote of the Councils to allow said bill he did not do it, and they still remain unpaid.

THE FIREMEN'S RELIEF ASSOCIATION.

This benevolent institution has been in existence since 1873, and its treasury has received substantial aid through the liberality of our citizens and the local insurance companies.

The condition of the treasury is as follows, December 31, 1890 :

Cash on hand February 11, 1890	\$2,498.56	
Interest on deposits	104.72	
Franklin-street Congregational society	50.00	
Chandler Brothers (George B., Henry, and J. M.)	20.00	
Rt. Rev. Bishop Bradley	10.00	
Col. Waterman Smith	10.00	
Hon. Moody Currier	10.00	
Hon. P. C. Cheney	10.00	
Hon. Horatio Fradd	10.00	
Hon. H. D. Upton	10.00	
Hon. Jacob F. James	5.00	
Hon. D. B. Varney	5.00	
Col. H. B. Fairbanks	5.00	
	<hr/>	\$2,748.28

CR.

By cash paid J. E. Merrill, secretary	25.00	
	<hr/>	\$2,723.28

To those who have so kindly aided us by their contributions during the last eighteen years of the existence of the association, we desire to say "God bless them," and if they ever need our services we will endeavor to care for them as they have cared for us.

RECOMMENDATIONS.

I would renew my recommendation of last year for the purchase of an aerial ladder truck for especial use in our business section.

The rapidly growing sections of Bakersville and McGregorville are requiring better protection, and I would recommend placing a horse hose carriage in both of these sections. The hose carriage displaced at Steamer No. 2 by the combination wagon, is in good, serviceable condition, and could be placed in one of these places with comparatively small expense.

I would recommend a change of section 3 of chapter 8 of City Ordinances, whereby the officers of the several companies would receive their appointments from the board of engineers. I am confident a majority of the entire membership feel that such a move would be beneficial to the discipline and efficiency of the department.

I would recommend the adoption of a police call and a military call, by means of the fire-alarm telegraph. In case of an extensive conflagration, or a riot, this would be of great importance in notifying these departments quickly. This is only a precautionary measure, but one which I think ought to receive early attention.

I would recommend the purchase of at least two thousand feet of hose the coming year.

INSPECTION OF BUILDINGS.

There can be but little accomplished in the way of a thorough building inspection until something can be brought to bear upon contractors and builders to convince them that they should be called to account for putting up death traps and "tinder boxes."

So long as men who are considered reputable and responsible contractors delight in telling their patrons they have a right to erect such buildings as they choose on property they have bought and paid for, and the city cannot deprive them of such rights, and until carpenters and builders are in sympathy with wholesome building laws, just so long shall we have "tinder boxes," erroneously called dwellings, erected in our midst.

No building ought to be allowed to be erected within the city limits until a permit has been granted, and then only when the builder shall comply with specifications furnished.

When a building in process of construction takes fire from a defective chimney what may we expect when such chimneys are inclosed inside of plastering and sheathing?

A building inspector can accomplish but little if the officers of the law and the courts will not uphold him in the performance of his duties.

PERSONAL.

Before closing this report I desire to return my personal thanks to the New Hampshire Fire Insurance Company, and the Peoples Fire Insurance Company, of this city, for their generosity in paying the expenses of the chief engineer to the eighteenth session of the National Association of Fire Engineers at Detroit, Mich., August 19-22. This is an expense that should properly be borne by the city, as is the case in most of the large cities in New England. These conventions are not "junketing" trips, as some suppose, but a meeting of practical fire fighters who have made their branch of business a study, and meet annually for an exchange of ideas and discussions on the methods and apparatus pertaining to the prevention and extinguishment of fires and the saving of life and property when endangered thereby.

I desire to return my thanks to the associate engineers for their unselfish support and for the efficient aid they have rendered on all occasions; to the officers and men composing the different companies, who have always striven to keep the efficiency of the department at its present high standard, and for the uniform courtesy they have always shown, as well as their alacrity in responding to alarms and their fidelity to the cause they are engaged in. They have stood shoulder to shoulder in times past, and may they continue so to do.

To the committee on fire department, who have striven hard to make our department efficient, to His Honor the Mayor and other members of the City Council, for their encouragement, to City Marshal Longa and his entire police force for their valuable and willing assistance, I also desire to return my thanks.

To Gen. Charles Williams, I desire to extend not only my personal thanks but those of the entire department for his continued hospitality for refreshments at fires.

To the incoming City Councils, I desire to say that our department will, in a measure, be what you make it. See to it that it is not crippled in any way so as to reduce its efficiency, and render it such aid as to make it among the best in the Union.

Respectfully submitted.

THOMAS W. LANE.

Chief Engineer Fire Department.

LIST OF FIRES AND ALARMS DURING 1890, WITH LOSSES AND INSURANCE PAID.

STILL. Tuesday, January 7, 5.25 P. M. One of the roomers at No. 1061 Elm street was lighting a fire with kerosene. Some boys seeing the flash gave the alarm, to which the Chemical responded. No services required.

STILL. Thursday, January 16, 5.30 P. M. Three-story brick building, owned by Higgins Bros., and occupied by the Higgins Bros. Co. as furniture and upholstery rooms. The fire took in a bale of wadding from a gas jet. Insured for \$12,000. Loss, \$50. Fully covered.

STILL. Wednesday, January 29, 6.20 A. M. Three-story brick block, known as Post-office Block, owned by Bartlett, Gay, and others. The fire originated in a waste basket in the store occupied by Thomas A. Lane, gas fixtures, piping, etc. Pennacook Hose Co. responded, and with hydrant stream through quarter-inch shut-off nozzle, extinguished the fire with very little damage by either fire or water. Building insured for \$20,000. Stock for \$6,000. Damage to building, \$6. To stock, \$25. Insurance paid, \$31.

Box 6. Thursday, January 30, 10.56 A. M. City Hall building. Fire originated in the basement under John J. Holland's drug store, and was caused by hot oil boiling over. No damage

to building. Stock insured for \$10,000. Damage to stock, \$200. Insurance paid, \$200.

STILL. Sunday, February 9, 2.47 P. M. Two-and-a-half story house, corner of Merrimack and Maple streets, owned and occupied by Mrs. Henry A. Follansbee. Burning chimney extinguished with "Pony" Extinguisher without damage.

BOX 4. Sunday, February 16, 2.48 A. M. Two-story wooden house, owned and occupied by Jeremiah J. Horan, as residence and saloon. Cause, cigar stub carelessly thrown into the sawdust upon the floor. Building insured for \$300. Damage, \$22.50. Insurance paid, \$22.50. No damage to contents.

STILL. Monday, February 17, 9.45 A. M. Four-story brick block, Nos. 43-61 Hanover street, owned by the heirs of J. N. Brown and William B. Johnson. A burning chimney filled the entire block with smoke. Chemical Engine responded. No damage.

STILL. Monday, February 17, 1.40 P. M. Three-story brick boarding block, No. 33 Mechanic street, owned by Stark Manufacturing Co. An overheated chimney ignited the lathing and sheathing. Damage estimated, \$10. No insurance. Used "Pony" Extinguisher.

STILL. Tuesday, March 4, 7.40 P. M. Three-story wooden block, No. 7 Pearl street, corner Elm, owned by the heirs of Hugh Ramsey. An overheated chimney ignited the "header" about the chimney. Extinguished with "Pony" with slight damage.

BOX 8. Friday, March 7, 7.12 A. M. Burning chimney in Webster block caused a needless alarm. No damage.

STILL. Friday, March 7, 8.30 A. M. Chimney fire in Wiggins block, No. 136 Lake Avenue. Used "Pony" Extinguisher. No damage.

STILL. Tuesday, March 11, 2.48 P. M. Burning chimney, No. 10 Clark's avenue, off Pearl street. Used two charges in "Pony" Extinguisher.

STILL. Friday, April 11, 5.20 P. M. Chimney fire in tenement No. 26 Dover street, occupied by Joseph Lahey. Responded to by Fire King Co. No. 2 with "Pony." No damage.

STILL. Saturday, April 19, 7.40 A. M. An eight-tenement block, No. 470 Granite street, owned by Mrs. Tolman and Mrs. N. T. Folsom. Sparks from the chimney set fire to roof which was slightly damaged. Insurance on block, \$3,000. Damage, \$20. Insurance paid, \$20. Fire King Co. No. 2 responded with hose carriage.

STILL. Saturday, April 19, 12.15 P. M. Brush fire on McGregor hill. Fire King Co. No. 2 responded with hose carriage.

STILL. Monday, April 21, 11.20 A. M. Two-story brick tenement block, No. 16 Machine Shop Corporation, owned by Amoskeag Manufacturing Co., and occupied by Charles Edgar. Fire originated among some clothes in the attic, from some unknown cause. Damage to building, \$5. Damage to contents, \$10. No insurance. Chemical responded, but services not needed. Extinguished with pails of water before arrival of engine.

STILL. Monday, April 21, 3.58 P. M. Word received by telephone of fire at Driving Park. Went down with Steamer 4 with four horses, and a hose wagon. On arrival at grounds found only a small brush fire. No damage.

BOX 313. Monday, April 21, 7.06 P. M. Three-story wooden block No. 511 North Main street, McGregorville. Kerosene lamp exploded in tenement occupied by Antoine Gignire. No damage. Extinguished before arrival of department.

BOX 45. Friday, April 25, 11.18 A. M. Three-story brick block, at corner of Franklin and West Auburn streets, owned and occupied by the S. C. Forsaith Machine Co. The fire originated in a bin for shavings over the boiler-room from some unknown cause. Buildings insured for \$33,500. Damage \$51.45. Insurance paid, \$51.45.

BOX 71. Saturday, April 26, 2.04 P. M. Two-and-one-half-story wooden dwelling, No. 153 Cedar street, owned by heirs of Edward Gallagher, and occupied by John Healey and John Reddy. The fire caught from sparks upon the dry shingles, burning through the roof. Insurance on building, \$1,200. Damage, \$58. Insurance paid, \$58.

STILL. Tuesday, April 29, 5.03 P. M. Chimney fire in Baker

& Burnham's block, Dover street. Responded to by Fire King Co. No. 2. No damage.

Box 8. Sunday, May 11, 11.45 A. M. Four-story brick tenement block owned by Charles F. Morrill at No. 13 Hollis street, occupied by Louis Letourneau. A member of the family attempted to light a fire with kerosene and succeeded to such an extent as to explode the can partly filled with oil. Building insured for \$6,000. Damage, \$28.05. Insurance paid, \$28.05. Extinguished by Chemical.

Box 24. Wednesday, May 14, 9.15 P. M. Three-story brick building, "The Elliot Hospital," situated on Hall hill. The fire originated in the kitchen or pantry adjoining, from some cause not definitely known, but I have no doubt it was from explosion of kerosene lamp. Mrs. Daniel S. Harriman, an employé of the hospital, who occupied a room directly over the kitchen, was suffocated in the early stage of the fire, and on the arrival of the department it was impossible to rescue her body until the flames were nearly extinguished. The fire was confined wholly to the east wing of the building. Building insured for \$20,000. Contents uninsured. Damage to building, \$2,150; to contents, \$450. Insurance paid, \$2,150.

Box 7. Thursday, May 15, 8.57 P. M. Two-and-one-half-story wooden block, No. 38 Lowell street, owned by Michael McCabe and occupied by John Turcotte, who upset a kerosene lamp, setting fire to the bedding. Damage to building, \$5; to contents, \$10. Uninsured.

Box 7. Friday, May 16, 5.18 P. M. Burning chimney at No. 17 Washington street. Needless alarm. No damage.

Box 52. Sunday, May 18, 6.22 P. M. Burning chimney in tenement rear of 26 Dover street, occupied by Joseph Lahey. No damage.

STILL. Sunday, June 8, 9.15 A. M. Burning chimney at No. 163 Hanover street, in house owned and occupied by Sarah A. Foster. No damage. Chemical responded.

Box 53. Monday, June 9, 4.22 P. M. Two-story wooden dwelling, No. 54 Milford street, owned by John D. Bean and occupied by Frank F. Ferguson, Levi Caldwell, and A. Whitte-

more. Fire caught from a spark on the roof, burning through into an open attic. Building insured for \$800. Damage to building, \$60. Insurance paid, \$60. No damage to contents.

Box 8. Saturday, June 21, 12.59 A. M. Three-story wooden tenement block, No. 7 Clark's avenue, Pearl street, owned by heirs of Joseph B. Clark. The fire originated in the tenement occupied by Mary C. Houlihan, in a storeroom, from some cause unexplained. It spread through the partition to the second and third stories and roof. Building insured for \$2,000. Damage to building, \$210.50. Insurance paid, \$210.50. Damage to contents, \$20. Uninsured.

Box 511. Wednesday, June 25, 4.14 P. M. Slight fire on the roof of Johnson's block, Douglas street, from sparks from chimney. Extinguished with hydrant stream of Steamer Company No. 2 before the arrival of the department from this side. Damage slight.

Box 8. Thursday, July 3, 11.42 P. M. One-story cobbler's shop, No. 21 Dean street, owned and occupied by Gustavus D. Parker. The building and contents were totally destroyed. Damage, \$100. No insurance. Cause, fire-crackers.

Box 7. Friday, July 4, 10.05 P. M. Two-and-one-half-story wooden building, No. 1127 Elm street, corner Washington, owned by Kennard Brothers & Chadwick. The fire originated in the store occupied by Thomas Kelley, and was caused by a fire-cracker thrown among the fire-works in Kelley's window. Insurance on building, \$1,400. Damage to building, \$65. Insurance paid, \$65. Insurance on contents, \$200. Damage to same, \$200. Insurance paid, \$100.

Box 52. Saturday, July 5, 7.42 A. M. One-story flat-roof building, No. 38 South Main street, corner of School street, owned by George S. Eastman and occupied by Carl Koehler & Sons as a bakery. The fire resulted from an overheated chimney. Damage to building, \$25. No insurance. Insurance on contents, \$700. Damage to contents, \$32. Insurance paid, \$32.

STILL. Wednesday, July 9, 5.48 P. M. Four-story brick block owned by Michael Lane, rear of No. 12 Birch street. A bed in the tenement occupied by Ann Turcotte caught fire from some

unknown cause. No damage to building. Damage to contents, \$5. No insurance. Extinguished with pails of water.

Box 17. Monday, July 14, 10.55 A. M. Ash barrel in rear of 509 Maple street caught fire, causing needless alarm.

Box 15. Saturday, July 19, 7.10 A. M. Two-story wooden dwelling, No. 67 Orange street, owned by Henry Fiske and occupied by John Millet. Sparks from stove set fire to cradle near by, causing very slight damage to contents.

Box 7. Two-story tenement house, No. 50 Bridge street, owned by Jonas Paige and occupied by Cornelius Kearns. The fire originated in an attic occupied by the Kearns family, probably from carelessness with matches. No damage to building. Damage to contents, \$3. Uninsured.

STILL. Tuesday, August 12, 5 P. M. Tenement house on Mast road owned by James Baldwin Co. Fire in bed; cause unknown. Damage slight. Fire King Company No. 2 responded.

Box 313. Wednesday, August 13, 8.10 P. M. Three-story wooden block, No. 14 Marion street. Lamp exploded in grocery store of J. Mollieur & Co. No damage. Services of department not needed.

Box 4. Friday, August 22, 10.17 A. M. Tenement in rear of No. 653 Elm street, owned by Alonzo Elliott and occupied by Frank Massant. Slight fire in bed with but little damage. Cause unknown.

Box 313. Monday, August 25, 2.10 A. M. Three-story wooden tenement block owned by Robert Leggett. The fire originated from some unknown cause in the photograph rooms occupied by Oliver Desmarais. Building insured for \$3,800. Damage, \$325. Insurance paid, \$325. Contents insured for \$500. Damage, \$275. Insurance paid, \$249.50.

Box 21. Thursday, September 18, 7.33 P. M. The upsetting of a kerosene lamp in a tenement, rear of No. 189 Manchester street, caused an alarm. Fire extinguished before the arrival of the department without damage.

Box 313. (Box 312 for second alarm.) Friday, October 17, 12.02 A. M. Wooden French Catholic church of St. Marie Society, next to 376 Beauport street. Fire originated from some

unknown cause in the church and had gained considerable headway before it was discovered. The structure with the exception of a small portion of the northwest wing was a total loss. The heat set fire to the parsonage on the north and the orphanage on the south. Church insured for \$4,000. Damage estimated at \$9,000. Insurance paid, \$4,000. Orphanage insured for \$10,000. Damaged, \$1,050. Insurance paid, \$1,050. Parsonage insured for \$3,700. Damaged \$405. Insurance paid, \$405. Charles W. Bailey, member of Excelsior Hook-and-Ladder Company No. 1, was injured in the head by a falling slate, and was conveyed to his home in a hack. Recovered in a few days.

STILL. Saturday, October 18, 12.10 P. M. Load of straw in Elm west back street, rear of Whitten & Fifield's stable, belonging to Mr. — Bailey, of New Boston. Loss, \$15. No insurance.

BOX 15. Wednesday, November 5, 5.05 P. M. Chimney fire in tenement block, No. 50 Pearl street. No damage.

BOX 313. Thursday, November 6, 5.15 P. M. A needless alarm was "rung in" from this box, caused by a light from a slight fire in the Amoskeag dye-house, which was attended to by the employés of the yard and the assistance of the department was not needed.

STILL. Sunday, November 16, 12.37 P. M. Chimney fire on North Main street. Responded to by Fire King Company No. 2. No damage.

STILL. Sunday, November 16, 3.20 P. M. In yard of waterworks, south of Valley street, on the Concord & Portsmouth Railroad. Boys set fire to woodpile. Loss estimated at \$15. No insurance. Responded to by Merrimack Company No. 3 with hose carriage.

BOX 15. Tuesday, November 18, 5.13 P. M. Two-and-one-half-story house, No. 73 Orange street, owned by Mrs. Eliza Creighton and occupied by Mrs. Emma Freldest. "Rats and matches" caused a little disturbance which was early attended to. Building insured for \$1,200. Damage to building, \$3.50. Insurance paid, \$3.50.

STILL. Wednesday, November 19, 8.30 P. M. Chimney fire

in house of Dennis Lane, 412 Beauport street. No damage. Responded to by Fire King Company No. 2.

STILL. Sunday, November 23, 8.07 P. M. Chimney fire in Thorp's block, West street. No damage. Responded to by Fire King Company No. 2.

STILL. Wednesday, November 26, 3 P. M. Brush fire on North Weare Railroad, near head of Granite street. No damage. Responded to by Fire King Company No. 2, with hose carriage.

STILL. Tuesday, December 2, 6.46 P. M. Chimney fire at No. 42 Bridge street. No damage. Chemical Company responded. Used "Pony" Extinguisher.

BOX 4. Friday, December 5, 3.05 A. M. Car shed of the Manchester Horse Railroad, on Depot street. Too hot fire in "drivers' lobby" caught clothes on fire. Building insured for \$1,150. Damage, \$81.02. Insurance paid, \$81.02.

BOX 4. 5.50 A. M. Rekindling of same fire. Extinguished by stream from Chemical Engine.

BOX 45. 10.05 A. M. Four-story brick building on corner of Franklin and West Cedar streets, owned by the S. C. Forsaith Machine Co., and occupied by L. N. Westover & Co., Allan E. Eaton & Co., and Thomas L. Thorp. The fire originated in the room occupied by the latter for wool-carding, and was caused by friction in the card rollers. Building insured for \$3,600. Damage to building, \$117.03. Insurance paid, \$117.03. L. N. Westover & Co., insurance on stock, \$1,000. Damage, \$300. Insurance paid, \$300. Allan E. Eaton's stock damaged \$25. No insurance. Thomas L. Thorp's stock damaged \$600. No insurance.

STILL. Monday, December 8, 6.30 A. M. Chimney fire in Patrick O'Dowd's house, 69 Dover street. No damage. Fire King Company No. 2 responded.

BOX 113. Friday, December 12, 6.12 P. M. House in process of construction at corner of Prospect and Russell streets, owned by Clarence M. Edgerly. Cause, defective chimney. Damage estimated, \$6. No insurance.

STILL. Friday, December 12, 8.04 P. M. Chimney fire in

Johnson's block, corner Douglas and Barr streets. Responded to by Fire King Company No. 2 with "Pony" Extinguisher.

BOX 15. Saturday, December 13, 12.38 P. M. Two-and-half-story tenement building, No. 28 Pearl street, owned by heirs of Joseph B. Clark and occupied by Peter Martin. Fire in bed, from some cause unknown. No damage to building. Damage to contents, \$2.50. No insurance.

STILL. Monday, December 15, 7.20 P. M. Four-story brick block, owned by Thomas Dunlap, corner of Elm and Amherst streets. Fire was discovered among some packing in the basement of jewelry store occupied by Charles A. Trefethen. Cause unknown. No damage to building. Stock insured for \$7,000. Damage, \$200. Insurance paid, \$200. Chemical Engine responded.

BOX 5. Tuesday, December 16, 12.24 A. M. Two-and-half-story house, No. 40 Merrimack street, owned by John D. Murphy and occupied by him and Mrs. Bridget McCarty and Frank St. Lawrence. Building insured for \$1,100. Damage to building, \$180. Insurance paid, \$180. Damage to contents, \$75. No insurance. Roderick E. Wilson, a standing member of Excelsior Hook-and-Ladder Company was rendered insensible for several hours by a falling brick from the chimney, and confined to his house for a few weeks in consequence.

STILL. Wednesday, December 17, 7.15 A. M. Four-story brick block,—Opera House Block. Fire in office of Northern Express, No. 36 Hanover street, caused by electric-light wires. Building insured for \$75,000. Damage on building, \$36.73. Insurance paid, \$36.73. Contents uninjured. Chemical Engine responded.

BOX 15. Thursday, December 18, 5.53 P. M. Chimney fire in tenement block of George H. Dorr, in Elm east back street. No damage. Needless alarm.

STILL. Thursday, December 18, 6.17 P. M. Burning chimney in Smyth & Carpenter's block, 1208-1244 Elm street. No damage. Responded with "Pony" Extinguisher.

Number of bell alarms	35
Number of still alarms	30
Total	<u>65</u>

Aggregate losses for the year 1890	\$16,533.28
Amount of insurance paid	<u>10,026.28</u>
Leaving a balance uncovered of	\$6,507.00

NOTE.—In addition to the foregoing, word was received from Reed's Ferry, Wednesday, November 26, at 12.25 P. M., of a fire in the kit factory near the depot. I took the N. S. Bean Steamer No. 4 with horses, hose, and a delegation of men and went there by special train. The structure was in ruins on our arrival there, and after some delay in getting water he played upon the ruins as long as the water lasted, returning a few hours later.

TABLE

SHOWING THE APPARATUS CALLED TO DIFFERENT BOXES ON FIRST, SECOND, AND THIRD ALARMS.

Boxes.	Steamer on its first run.	Steamer on its second run.	Steamer No. 2.	Steamer No. 3.	Steamer No. 5.	Hose 1.	Hose No. 2.		Hook and Ladder.	Chemical Engine.
							First run.	Second run.		
3.	1	1	3	1	3	1	3	3	1	1
4.	1	1	3	1	3	1	3	3	1	1
5.	1	1	3	1	3	1	3	3	1	1
6.	1	1	3	1	3	1	3	3	1	1
7.	1	1	3	1	3	1	3	3	1	1
8.	1	1	3	1	3	1	3	3	1	1
9.	1	1	3	1	3	1	3	3	1	1
12.	1	1	3	1	3	1	3	3	1	1
13.	1	1	3	1	3	1	3	3	1	1
14.	1	1	3	1	3	1	3	3	1	1
15.	1	1	3	1	3	1	3	3	1	1
16.	1	1	3	1	3	1	3	3	1	1
17.	1	1	3	1	3	1	3	3	1	1
18.	1	1	3	1	3	1	3	3	1	1
21.	1	1	3	1	3	1	3	3	1	1
23.	1	1	3	1	3	1	3	3	1	1
24.	1	1	3	1	3	1	3	3	1	1
25.	1	1	3	1	3	1	3	3	1	1
26.	1	1	3	1	3	1	3	3	1	1
27.	1	1	3	1	3	1	3	3	1	1
31.	1	1	3	1	3	1	3	3	1	1
32.	1	1	3	1	3	1	3	3	1	1
34.	1	1	3	1	3	1	3	3	1	1
35.	1	1	3	1	3	1	3	3	1	1
36.	1	1	3	1	3	1	3	3	1	1
41.	1	1	3	1	3	1	3	3	1	1
42.	1	1	3	1	3	1	3	3	1	1
43.	1	1	3	1	3	1	3	3	1	1
45.	1	1	3	1	3	1	3	3	1	1
51.	2	3	1	1	3	1	3	3	1	1
52.	1	3	1	1	3	1	3	3	1	1
53.	1	3	1	1	3	1	3	3	1	1
54.	1	3	1	1	3	1	3	3	1	1
56.	2	3*	1	1	3	1	3	3	1	1
61.	1	3	1	1	3	1	3	3	1	1
62.	1	3	1	1	3	1	3	3	1	1
71.	1	3	1	1	3	1	3	3	1	1
72.	1	3	1	1	3	1	3	3	1	1
73.	1	3	1	1	3	1	3	3	1	1
81.	1	3	1	1	3	1	3	3	1	1
112.	1	3	1	1	3	1	3	3	1	1
113.	1	3	1	1	3	1	3	3	1	1
114.	1	3	1	1	3	1	3	3	1	1
212.	1	3	1	1	3	1	3	3	1	1
213.	1	3*	1	1	3	1	3	3	1	1
312.	1	3	1	1	3	1	3	3	1	1
313.	1	3	1	1	3	1	3	3	1	1
314.	1	3	1	1	3	1	3	3	1	1
315.	2	3*	1	1	3	1	3	3	1	1
321.	1	3	1	1	3	1	3	3	1	1
511.	1	3	1	1	3	1	3	3	1	1
513.	2	3*	1	1	3	1	3	3	1	1

* On first alarm, the horses of second-run engine will double on engine of first run.

NUMBER AND LOCATION OF ALARM-BOXES AND KEYS.

No. 3. — Blood's lower shop. Keys at offices of E. P. Johnson Co., Gas-works, County Jail, Marshall & Underhill, and Charles H. Hutchinson's shop.

No. 4. — Corner of Spruce and Elm streets. Keys at Hotel Belmont, L. B. Bodwell & Co.'s, Palmer & Garmon's, Horse Railroad stables, and W. C. Blodgett's office.

No. 5. — Corner of Merrimack and Elm streets. Keys at Tebbetts Brothers' and Currier's drug stores, and Manchester House.

No. 6. — City Hall. Keys at Holland's and Mead's drug stores, and J. A. Riddle's office.

No. 7. — Old City Hotel, corner Lowell and Elm east back streets. Keys at Higgins Bros.', Brewer Bros.' stable, and Eames Bros.' drug store.

No. 8. — Corner Elm and Hollis streets. Keys at Smith & Co.'s and Colby's drug stores, and Partridge Bros.' grain store.

No. 9. — Corner of Elm and Webster streets. Keys at residences of Mrs. H. D. Corliss, J. Freeman Clough, J. B. Jones, and General Stark engine-house.

No. 12. — Corner of North and Pine streets. Keys at residences of William C. Clarke, George Emerson, and Walter A. Green.

No. 13. — Corner of Brook and Chestnut streets. Keys at residences of Welcome Jencks and Lewis Simons, and No. 1 Senter's block.

No. 14. — Corner of Prospect and Union streets. Keys at residences of W. Ireland, Mrs. N. L. Hardy, and D. J. Adams.

No. 15. — Corner of Pearl and Chestnut streets. Keys at residences of Willie H. Dodge and Ervin S. Lyford.

No. 16. — Corner of Lowell and Union streets. Keys at residences of Rt. Rev. Bishop Bradley and R. H. Hassam.

No. 17. — Corner of Amherst and Beech streets. Keys at residences of Mrs. H. P. Watts and Michael Connor.

No. 18. — Corner of Manchester and Maple streets. Keys at residences of the late H. E. Stevens, A. N. Baker, and William Perkins.

No. 21. — Corner of Merrimack and Pine streets. Keys at A. D. Smith's drug store, J. McKeon's grocery store, A. L. Walker's office, and residence of James F. Gillis.

No. 23. — Corner of Central and Beech streets. Keys at residences of Eben T. James and Mrs. Josiah Stevens.

No. 24. — Merrimack Steamer house, corner of Massabesic street and Lake avenue. Keys at residence of D. M. Goodwin and Steamer house.

No. 25. — Corner of Hanover and Ashland streets. Keys at residences of George F. Lincoln, A. D. Gooden, Horace Stearns, and the late Horace Gordon.

No. 26. — Corner of Bridge and Russell streets. Keys at McCrillis's carriage-shop, Geo. W. Bailey's stable, and residence of John N. Chase.

No. 27. — Corner of Belmont and Amherst streets. Keys at residences of H. M. Tarbell, A. G. Fairbanks, William B. Orrill, E. S. Fletcher, William Carr, and George H. Hubbard.

No. 31. — Corner of Canal and Hollis streets, Blood's shop. Keys at office and Amory Mills watch-room.

No. 32. — Langdon Mills block, corner of Canal and Brook streets. Keys at the Amoskeag Paper Co.'s mill, Langdon watch-room, and Electric Light Station.

No. 34. — Jefferson Mill. Keys at watch-room and pumping station.

No. 35. — Stark Mills. Keys at watch-room.

No. 36. — Amory Mills. Keys at watch-room.

No. 41. — Amoskeag Mills. Keys at watch-room.

No. 42. — Manchester Mills. Keys at watch-room.

No. 43. — Olzendam's Mill. Keys at watch-room.

No. 45. — The S. C. Forsaith Co.'s shops. Keys at freight depot, S. C. Forsaith Co.'s office, and the Lowell iron foundry office.

No. 51. — Corner of Walker and Second streets. Keys at stores of F. Riedel and William Weber.

No. 52. — Barr's brick block, 'Squog. Keys at Fradd & Co.'s and A. N. Clapp's stores and Merrimack House.

No. 53. — Wallace's steam-mill. Keys at the office and I. R. Dewey's tenement block.

No. 54. — Corner of A and Bowman streets. Keys at residences of Lord sisters and Neil Fullerton.

No. 56. — Mast road, near Riddle street. Keys at Baldwin's bobbin shop, and residences of J. C. Smith and E. P. Littlefield.

No. 61. — Corner of River road and Hancock street, Bakersville. Keys at Mary Stack's saloon, Carney, Lynch & Co.'s brewery, and residence of H. F. Dillingham.

No. 62. — Kimball & Gerrish's tannery, River road. Keys at tannery, and residence of Edwin Kennedy.

No. 71. — Corner of Cedar and Pine streets. Keys at residences of T. Collins, Daniel Sheehan, and Thomas J. Smith.

No. 72. — Corner of Park and Lincoln streets. Keys at residences of Austin Jenkins, C. H. Leach, and Clarence D. Palmer.

No. 73. — Corner of Beech and Cedar streets. Keys at residences of Rev. J. A. Chevalier and Edward Prindable.

No. 81. — Central Fire Station, Vine street. Keys at all the engine-rooms.

No. 112. — Corner of Sagamore and Union streets. Keys at residences of Woodbury Davison and W. T. Stevens.

No. 113. — Corner of Oak and Prospect streets. Keys at residences of William B. Abbott, W. N. Johnson, and E. M. Topliff.

No. 114. — Corner of Pearl and Ash streets. Keys at residences of A. P. Olzendam, G. A. Olzendam, W. S. Shannon, and John J. Bennett.

No. 212. — Shoe-shop, Hallsville. Keys at the office of shoe factory, and residences of Charles C. Chase, G. W. Dearborn, Mrs. Milton A. Abbott, and M. V. B. Garland.

No. 213. — Sash and blind factory, South Beech street, junction of Portsmouth Railroad. Keys at office of Austin, Flint & Day.

No. 312. — Corner of Putnam, Main, and McGregor streets.

Keys at residences of James Spence (391 Main street), Thomas Bolton, and Amoskeag Co.'s gate.

No. 313. — Corner of Amory and Main streets. Keys at residences of Allen Dean and Lawrence M. Connor, Bouthillier & Gingras's drug store, and Amoskeag Co.'s gate.

No. 314. — P. C. Cheney Company's paper-mill. Keys at office and Independent hose-house.

No. 315. — Old Brick Store, 'Skeag. Keys at Flanders' store, Independent hose-house, and Robinson's residence.

No. 321. — To be located near corner Beauport and Wayne streets.

No. 511. — Corner of Douglas and Green streets. Keys at residences of Henry Harmon, Amelia Davis, and Charlotte T. Snow.

No. 513. — To be located near corner Milford and Carroll streets.

Also, keys will be found in the hands of all regular police.

The true time from Cambridge Observatory will be given at precisely 12.30 P. M., from Charles A. Trefethen's jewelry store, and will be denoted by one strike of the fire bells.

TELEPHONE CALLS.

Central station, Chemical Engine	64-3
Chief Engineer Lane's residence	64-4
Assistant Engineer Whitney's residence	34-4
" " Merrill's residence	71-3
" " Merrill's store	55-4
Fire King Steamer No. 2	59-3
Merrinack Steamer No. 3	56-3
General Stark Steamer No. 5	64-6
Massabesic Hose No. 2	116-4

INSTRUCTIONS TO KEY-HOLDERS AND CITIZENS.

1. Upon the discovery of a fire, notice should be immediately communicated to the nearest alarm-box, the keys to which are in the hands of all regular police, and generally of persons at the corner or nearest houses.

2. Key-holders, upon the discovery of a fire, or positive information of a fire, will unlock the box, pull down the hook once as far as it will go (without jerking) and then let go. Shut the door, but do *not* try to remove the key, as it is locked in by a trap-lock, and can only be removed with a release-key, which is carried by each of the engineers, who will, as soon as convenient, release and return it.

3. All persons giving fire alarms are requested to remain by the box a moment, and if no clicking is heard in the box, pull again; if you still hear no clicking, go to the next nearest box, procure another key, and give an alarm from that.

4. Never signal for a fire seen at a distance. Never touch the box except to give an alarm of fire. Give an alarm for no cause other than actual fire. **DON'T GIVE AN ALARM FOR A CHIMNEY FIRE.**

5. Never let the keys go out of your possession unless called for by the Chief Engineer. *If you change your residence or place of business, where the keys are kept, return the keys to the same officer.*

6. Owners and occupants of buildings are requested to inform themselves of the location of alarm-boxes near their property, also all places where the keys are kept. Be sure the alarm is promptly and properly given.

7. Alarms will be sounded upon all the fire bells in the city, and the number of the box will be given thus: Box 6, six blows, $2\frac{1}{2}$ seconds apart, repeated three times. Box 212, two blows, pause of $6\frac{1}{4}$ seconds, one blow, same pause, and two blows, 2—1—2, repeated three times.

8. The engineers reserve the right to give one stroke of the bells at any time; and, in case of testing the boxes, each test will be preceded by one stroke of the bells.

SCHOOL SIGNAL.

Two strokes, with fifteen seconds between them, close the primary schools; and to close all the schools, two immediate strokes, and after a lapse of fifteen seconds two more immediate strokes, — the time of striking the bells being at 7.45 A. M. for closing the schools during the forenoon, and at 11.30 A. M. or 1.15 P. M. for closing them during the afternoon.

RULES AND REGULATIONS IN REGARD TO RESPONDING TO FIRES AND ALARMS.

The following order has been adopted by the Board of Engineers, and the Fire Department will strictly comply until otherwise ordered, and will attend alarms of fire as follows :

1. Pennacook Hose Co. No. 1, Hook-and-Ladder Co. No. 1, and Chemical Engine Co. No. 1 will report for duty to all boxes on *first alarm*.

2. Amoskeag Steamer Co. No. 1 will report for duty, on days of its first run, on *first alarm* to all boxes *except* 9, 12, 51, 54, 56, 315, 513 ; on *second alarm*, to all other boxes.

SECOND RUN. On *first alarm*, to boxes 6, 7, 8, 15, 34, 35, 36, 41, 42, 45, 81 ; on *second alarm*, to boxes 3, 4, 5, 13, 14, 16, 17, 18, 21, 23, 24, 25, 26, 27, 31, 32, 43, 61, 62, 71, 72, 73, 112, 113, 114, 213, 312, 313, 314, 321, 511 ; on *third alarm*, to all other boxes.

3. Fire King Steamer Co. No. 2 will report for duty on *first alarm* to boxes 34, 35, 36, 41, 42, 43, 45, 51, 52, 53, 54, 56, 312, 313, 321, 511, 513 ; on *second alarm*, to boxes 4, 5, 31, 32 ; on *third alarm*, to all other boxes.

4. Merrimack Steamer Co. No. 3 will report for duty on *first alarm* to boxes 3, 4, 5, 16, 17, 18, 21, 23, 24, 25, 26, 27, 41, 42, 43, 45, 61, 62, 71, 72, 73, 212, 213 ; on *second alarm*, to boxes 6, 7, 8, 15, 31, 34, 35, 36, 51, 52, 53, 56, 81 ; on *third alarm*, to all other boxes.

5. N. S. Bean Steamer Co. No. 4 will report for duty, on days of its first run, on *first alarm* to all boxes *except* 9, 12, 51, 54, 56, 315 ; on *second alarm*, to all other boxes.

SECOND RUN. On *first alarm*, to boxes 6, 7, 8, 15, 34, 35, 36, 41, 42, 45, 81 ; on *second alarm*, to boxes 3, 4, 5, 13, 14, 16, 17, 18, 21, 23, 24, 25, 26, 27, 31, 32, 43, 61, 62, 71, 72, 73, 112, 113, 114, 213, 312, 313, 314, 321, 511 ; on *third alarm*, to all other boxes.

6. Gen. Stark Steamer Co. No. 5 will report for duty on *first alarm* to boxes 7, 8, 9, 12, 13, 14, 15, 31, 32, 34, 35, 41, 112,

113, 114, 314, 315 ; on *second alarm*, to boxes 6, 16, 36, 42, 81, 312, 313, 321 ; on *third alarm*, to all other boxes.

7. Massabesic Hose Company No. 2 will report for duty, on days of its first run, on *first alarm*, to boxes 6, 7, 8, 13, 14, 15, 16, 17, 18, 21, 23, 24, 25, 26, 27, 31, 32, 34, 35, 36, 41, 42, 72, 81, 112, 113, 114 ; on *second alarm*, to boxes 4, 5, 9, 12, 43, 45, 71, 73, 212, 312, 313, 314, 321 ; on *third alarm*, to all other boxes.

SECOND RUN. On *first alarm*, to boxes 7, 8, 13, 14, 15, 16, 17, 18, 25, 26, 34, 112, 113, 114 ; on *second alarm*, to boxes 4, 5, 6, 9, 12, 21, 23, 24, 27, 31, 32, 35, 36, 41, 42, 43, 45, 71, 72, 73, 81, 212, 312, 313, 314, 321 ; on *third alarm*, to all other boxes.

8. On the first alarm from boxes 9, 24, 27, 54, 56, 61, 62, 212, 213, 314, 315, 513, the horses of the second run will double on to the engine of its first run, AND ON THE ARRIVAL AT THE FIRE THE SECOND-RUN HORSES WILL RETURN TO THEIR HOUSE, and in case of an alarm from any box the company will immediately respond with their engine.

9. During the progress of a fire, any of the apparatus not called on that alarm will promptly *respond to an alarm from any other box*.

10. At any time when an alarm of fire is given, the engine, hose-carriage, or truck that leaves the house first will have the right to lead to the fire. NO RUNNING BY WILL BE ALLOWED, EXCEPT IN CASE OF ACCIDENT, UNDER PENALTY OF DISMISSAL OF THE DRIVER FROM THE DEPARTMENT.

11. The drivers shall not permit persons not connected with the department to ride upon their apparatus, and in muddy weather or heavy wheeling they shall not permit any one to ride upon their apparatus when returning from fires.

12. The companies of the department not called on the first alarm will prepare for a start and hold themselves in readiness for a second or third alarm ; and, if not needed, one stroke on the bells and gongs by the engineer in charge will be the signal for discharge to all companies remaining at the houses ; or in case this one blow is not struck within thirty minutes, companies may consider themselves dismissed ; except the drivers, who will remain

in the houses with their horses until the two blows to limber up.

13. Two strokes on the bells will be a signal for those at a fire to limber up.

ESTIMATED VALUE OF PROPERTY.

AMOSKEAG STEAM FIRE-ENGINE COMPANY NO. 1.

LOCATED ON VINE STREET.

1 extra first-size Amoskeag steamer	\$4,000.00
1 one-horse hose-wagon	450.00
1 pair gray horses for steamer	800.00
1 black horse for hose-wagon	375.00
3 swinging harnesses	150.00
1 pair double harnesses (for street work)	60.00
1 single harness (for street work)	50.00
2,000 feet fabric hose	1,200.00
100 feet three-inch leather hose	50.00
1 double cart	100.00
1 single cart	100.00
1 sled	40.00
Stable fixtures, blankets, etc.	60.00
Tools, furniture, and fixtures	200.00
Firemen's suits and badges	200.00
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Total amount	\$7,835.00

FIRE KING STEAM FIRE-ENGINE COMPANY NO. 2.

LOCATED ON NORTH MAIN STREET, 'SQUOG.

1 second-size Amoskeag steamer	\$4,000.00
1 combination hose-wagon	650.00
1 pair bay horses for steamer	800.00
1 pair gray horses for combination	600.00
3 street harnesses, two at \$40, 1 at \$20	100.00
2 pairs harnesses	200.00
1 four-wheeled hose-carriage	600.00

1	single cart	\$100.00
1	two-horse cart	75.00
1	double sled	75.00
1	single sled	50.00
2,000	feet fabric hose	1,500.00
	Stable fixtures and blankets	60.00
	Furniture, fixtures, carpets, etc.	466.00
	Firemen's suits and badges	150.00
	Total amount	<u>\$9,426.00</u>

MERRIMACK STEAM FIRE-ENGINE COMPANY NO. 4.

LOCATED ON LAKE AVENUE, CORNER MASSABESIC STREET.

1	second-size Amoskeag steamer	\$3,500.00
1	pair black horses	600.00
1	single horse	250.00
3	street harnesses, two at \$50, one at \$40	140.00
3	swinging harnesses	150.00
1	four-wheeled Amoskeag hose-carriage	600.00
1	double cart	162.50
1	single cart	40.00
1	single sled	40.00
2,000	feet fabric hose	1,200.00
	Stable fixtures, blankets, etc.	50.00
	Beds, bedding, carpets, hall furniture, etc.	575.00
	Total amount	<u>\$7,307.50</u>

N. S. BEAN STEAM FIRE-ENGINE COMPANY NO. 4.

LOCATED ON VINE STREET.

1	second-size Amoskeag steamer	\$3,500.00
1	hose-wagon	400.00
1	pair bay horses for steamer	600.00
1	horse for hose-wagon	200.00
1	pair street harnesses	50.00

1 pair swinging harnesses for steamer	\$100.00
1 single swinging harness for hose-wagon	50.00
550 feet fabric hose	330.00
900 feet Baker fabric hose	360.00
Hall furniture, beds, bedding, etc.	275.00
Stable fixtures and blankets	75.00
Firemen's suits and badges	150.00
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Total amount	\$6,090.00

GENERAL STARK STEAM FIRE-ENGINE COMPANY NO. 5.

LOCATED ON WEBSTER STREET, CORNER CHESTNUT.

1 third-size Amoskeag steamer	\$3,600.00
1 combination hose reel and ladder	1,000.00
1 pair bay horses	600.00
1 pair gray horses	400.00
2 double carts	225.00
2 double sleds	150.00
2 pairs swinging harnesses	200.00
2 pairs street harnesses	180.00
2,000 feet fabric hose	1,200.00
Furniture, fixtures, tools, etc.	175.00
Stable fixtures and blankets	80.00
Firemen's suits, badges, etc.	150.00
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Total amount	\$7,960.00

E. W. HARRINGTON STEAM FIRE-ENGINE.

LOCATED AT OLD ENGINE-HOUSE, CLINTON STREET.

Old U tank Amoskeag engine	\$500.00
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PENNACOOK HOSE COMPANY NO. 1.

LOCATED ON VINE STREET.

1 four-wheeled Amoskeag hose-carriage	\$600.00
2 horses	600.00
2 single harnesses	70.00

1	single cart	.	.	.	.	.	.	\$50.00
1	single sled	.	.	.	.	.	.	40.00
1	hose sled	.	.	.	.	.	.	20.00
1,650	feet fabric hose	.	.	.	.	.	.	990.00
3,000	feet leather hose	.	.	.	.	.	.	1,800.00
	Furniture and fixtures	.	.	.	.	.	.	200.00
	Stable fixtures and blankets	.	.	.	.	.	.	50.00
	Firemen's suits and badges	.	.	.	.	.	.	175.00
	Total amount	.	.	.	.	.	.	<u>\$4,595.00</u>

MASSABESIC HOSE COMPANY NO. 2.

LOCATED ON MAPLE STREET, CORNER EAST HIGH.

1	four-wheeled Amoskeag hose-carriage	.	.	.	.	.	.	\$600.00
1	bay horse	.	.	.	.	.	.	350.00
1	street harness	.	.	.	.	.	.	40.00
1	swinging harness	.	.	.	.	.	.	50.00
1	single cart	.	.	.	.	.	.	60.00
1	single sled	.	.	.	.	.	.	40.00
2,000	feet fabric hose	.	.	.	.	.	.	1,200.00
2,000	feet leather hose	.	.	.	.	.	.	1,200.00
	Furniture and fixtures	.	.	.	.	.	.	100.00
	Firemen's suits and badges	.	.	.	.	.	.	175.00
	Total amount	:	.	.	.	.	.	<u>\$3,815.00</u>

EXCELSIOR HOOK-AND-LADDER COMPANY NO. 1.

LOCATED ON VINE STREET.

1	hook-and-ladder truck	.	.	.	.	.	.	\$1,700.00
1	reserve truck	.	.	.	.	.	.	300.00
1	pair bay horses	.	.	.	.	.	.	600.00
1	pair exercise harnesses	.	.	.	.	.	.	30.00
1	pair swinging harnesses	.	.	.	.	.	.	100.00
2	extra Bangor extension ladders	.	.	.	.	.	.	360.00
6	rubber blanket covers	.	.	.	.	.	.	144.00

Furniture and fixtures	\$200.00
Stable fixtures and blankets	50.00
Firemen's suits and badges	280.00
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Total amount	\$3,764.00

CHEMICAL ENGINE COMPANY NO. 1.

LOCATED ON VINE STREET.

1 double tank (60 gallons each) engine	\$2,250.00
1 pair black horses	750.00
1 pair exercise harnesses	50.00
1 pair swinging harnesses	100.00
Furniture and fixtures	75.00
Stable fixtures and blankets	50.00
Firemen's suits and badges	35.00
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Total amount	\$3,310.00

SUPPLY WAGON.

1 supply wagon with boxes and engineer's lanterns	\$312.00
6 rubber blanket covers	144.00
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Total amount	\$456.00

SPARE HOSE.

AT CENTRAL STATION, VINE STREET.

500 feet leather hose	\$500.00
600 feet fabric hose	360.00
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Total amount	\$860.00

EXERCISE WAGON.

CENTRAL STATION, VINE STREET.

1 four-wheeled exercise wagon with pole and shafts and coal boxes	\$350.00
1 second-hand hand wagon	30.00
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Total amount	\$380.00

ENGINEERS' DEPARTMENT.

5 fire hats	\$10.00
5 engineers' white rubber coats	37.50
Furniture and fixtures	175.00
Total amount	<u>\$222.50</u>

INDEPENDENT HOSE COMPANY NO. 5.

LOCATED AT CORNER OF OLD FALLS ROAD AND FRONT STREET.

1 four-wheeled hand hose-carriage	\$400.00
600 feet leather hose	360.00
2 hose-pipes, spanners, etc.	40.00
Furniture and fixtures	10.00
Total amount	<u>\$810.00</u>

GOFFE'S FALLS HOSE-CARRIAGE.

LOCATED AT DERRY MILLS.

1 two-wheeled hose-carriage	\$50.00
300 feet fabric hose	200.00
2 hose-pipes	10.00
Total amount	<u>\$260.00</u>

SLEEPING-HALL.

AT CENTRAL STATION, VINE STREET.

7 beds, bedding, wardrobes, etc.	\$275.00
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FIRE-ALARM TELEGRAPH.

At cost (including additions previous to 1885)	\$21,625.00
Remodeling in 1885	6,000.00
Additions in 1886	775.00
“ in 1887	375.00
“ in 1888	575.00
“ in 1889	430.00

Additions in 1890	\$300.00
“ Individual Tapper ” system	3,000.00
Wire, ladders, arms, brackets, etc.	150.00
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Total	\$33,230.00

RECAPITULATION.

Amoskeag Steam Fire-Engine Co. No. 1	\$7,835.00
Fire King Steam Fire-Engine Co. No. 2	9,426.00
Merrimack Steam Fire-Engine Co. No. 3	7,307.50
N. S. Bean Steam Fire-Engine Co. No. 4	6,090.00
Gen. Stark Steam Fire-Engine Co. No. 5	7,960.00
E. W. Harrington Steamer (old)	500.00
Pennacook Hose Co. No. 1	4,595.00
Massabesic Hose Co. No. 2	3,815.00
Excelsior Hook-and-Ladder Co. No. 1	3,764.00
Chemical Engine Co. No. 1	3,310.00
Supply Wagon	456.00
Spare Hose	860.00
Exercise Wagon	380.00
Engineers' Department	222.50
Independent Hose Co. No. 5	810.00
Goffe's Falls Hose-Carriage	260.00
Sleeping Hall (Central Station)	275.00
Fire-Alarm Telegraph	33,230.00
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Total	\$91,096.00

NAMES AND RESIDENCES OF THE MEMBERS OF THE FIRE DEPARTMENT.

BOARD OF ENGINEERS.

Badge No.	NAME.	Rank.	Occupation.	Residence.
1	Thomas W. Lane.....	Chief.....		1937 Elm street.
3	Fred S. Bean.....	Asst. and clerk	Machinist.....	162 Orange St.
2	Ruel G. Manning.....	Assistant.....	Carpenter.....	52 Douglas St.
4	Eugene S. Whitney...	Assistant.....	Supt. Electric L't	River road, N.
5	Clarence R. Merrill*..	Assistant.....	Grain dealer.....	414 Merrimack.

* Elected to fill vacancy caused by resignation of Clarence D. Palmer, July 1, 1890.

AMOSKEAG STEAM FIRE-ENGINE COMPANY NO. 1.

House No. 28 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
7	Charles F. McCoy.....	Foreman.....	Machinist.....	5 M. S. B.
8	Frank E. Stearns.....	Asst. foreman..	Paper-hanger...	389 Lake Ave.
18	Henry C. Parsons	Clerk.....	Auctioneer.....	28 Vine street.
6	Charles F. Hall.....	Engineer.....	Machinist.....	146 Orange St.
13	Joseph H. Gould.....	Asst. engineer.	".....	1087 Elm street.
11	Charles H. Rogers....	Driver steamer	Teamster.....	28 Vine street.
12	Artemas C. Barker...	Driver of hose.	".....	28 Vine street.
16	Frank B. Marston ..	Hoseman.....	Carpenter.....	11 M. S. B.
19	Henry A. Boone.....	".....	Machinist.....	546 Chestnut St.
15	Thomas J. Wyatt.....	".....	Carpenter.....	44 Middle St.
18	James L. Brock.....	".....	Tinsmith.....	21 Market St.
10	Lewis G. Bryant.....	".....	Teamster.....	12 M. S. B.
14	Edgar A. Young.....	".....	Clerk.....	371 Merrimack.
9	Frank H. Harvey.....	".....	Teamster.....	546 Chestnut St.

FIRE KING STEAM FIRE-ENGINE COMPANY NO. 2.

House on North Main Street, 'Squog.

Badge No.	NAME.	Rank.	Occupation.	Residence.
67	David G. Mills.....	Foreman.....	Contractor.....	607 Granite Ex.
71	Charles G. Ranno....	Asst. foreman.	Harness-maker..	63 Parker St.
68	John Martin.....	Clerk.....	Machinist.....	624 N. Main St.
120	Thomas F. Dodge....	Engineer.....	Engineer.....	Engine house.
119	Stephen Thomes.....	Asst. engineer	Carpenter.....	55 Douglas St.
76	Jeremiah Lane.....	Driver-steamer	Teamster.....	Engine house.
69	Arthur W. Whitecomb	Driver of hose	".....	Engine house.
72	Samuel A. Hill.....	Hoseman.....	Janitor.	86 School St.
75	Robert J. Hill.....	".....	Carpenter.....	86 School St.
77	Daniel B. Emery.....	".....	Machinist.....	Williams St.
73	Charles S. Cousins....	".....	Harness-maker..	53 Douglas St.
74	Thomas C. Foote.....	".....	Wool-sorter..	56 N. Main St.
66	Joseph H. Alsop.....	".....	Wool-waste-s'rt'r	34 Douglas St.
70	Charles Tewksbury ..	".....	Freight-handler.	86 School St.

MERRIMACK STEAM FIRE-ENGINE COMPANY NO. 3.

House on Lake Avenue, corner Massabesic.

Badge No.	NAME.	Rank.	Occupation.	Residence.
84	Charles H. Colburn...	Foreman.....	Carpenter.....	294 Laurel St.
86	Frank F. Porter	Asst. foreman..	Manufacturer...	330 Spruce St.
85	Will P. Emerson.....	Clerk	Carpenter.....	294 Laurel St.
121	George B. Forsaith...	Engineer	Engineer	196 Laurel St.
122	Edwin E. Weeks.....	Asst. engineer.	Machinist... ..	284 Spruce St.
87	George H. Wheeler...	Driver steamer	Teamster	419 Lake Ave.
81	William S. McLeod...	Driver of hose.	"	347 Spruce St.
78	George Dunnington.	Hoseman	Clerk.....	422 Merrimack.
79	Louis N. Dufrain.....	"	Plumber.....	373 Hall street.
80	Ernest L. George	"	Clerk.....	253 Lake Ave.
82	John S. Avery.....	"	Janitor.....	404 Merrimack.
83	Ernest E. Hubbell....	"	Yeast agent.....	428 Central St.
88	Fred S. Sloan.....	"	Painter	58 Massabesic.
89	Parker R. Brown.....	"	Clerk	422 Merrimack.

N. S. BEAN STEAM FIRE-ENGINE COMPANY NO. 4.

House on Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
26	Lorenzo J. Chandler..	Foreman.....	Clerk	123 Orange St.
27	Walter Morse.....	Asst.foreman..	Machinist.....	90 Blodget St.
20	Lucius B. Snelling....	Clerk.....	Pharmacist.....	37 Water street.
24	Albert Merrill.....	Engineer	Electrician	River road, N.
21	Edgar G. Abbott.....	Asst. engineer.	Machinist	12 Linden St.
31	Frank J. Dustin.....	Driver steamer	Teamster	20 Vine street.
29	Alphonso E. Foster...	Driver of hose.	"	20 Vine street.
28	William H. Dodge	Hoseman.....	R. R. fireman....	530 Chestnut St.
33	Henry C. Morrill.....	"	Machinist.....	112 Pearl St.
23	George A. Cann.....	"	Watchman.....	27 Middle St.
32	Benj. R. Richardson..	"	Machinist.....	12 Mechanic St.
30	Ellsworth V. Rowe...	"	Section-hand....	1261 Elm street.
22	Walter A. Clarkson...	"	Carpenter.....	98 Sagamore St.
25	Frank B. Stevens.....	"	Clerk	301 Amherst St.

GENERAL STARK STEAM FIRE-ENGINE COMPANY NO. 5.

House on Webster Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
49	Charles W. Brown.....	Foreman.....	Clerk.....	16 Hazel St.
123	Geo. R. Simmons.....	Asst. foreman.	Machinist.....	82 Pennacook.
46	Woodbury Davison....	Clerk.....	Carpenter.....	785 Union St.
42	Daniel W. Morse.....	Engineer.....	Engineer.....	1419 Elm St.
102	Arthur W. Bond.....	Asst. engineer.	".....	630 Pine street.
125	Emil H. Smith.....	Driver steam'r	Teamster.....	44 Webster St.
124	Martin W. Ford.....	Driver hose ...	".....	44 Webster St.
41	Arthur A. Smith.....	Hoseman.....	Blacksmith.....	W. Appleton.
47	Russell L. Cilley.....	".....	Clerk.....	1449 Elm St.
95	Edward H. Clough....	".....	".....	41 Appleton St.
99	John J. Kelley.....	".....	Machinist.....	River road N.
101	Milo B. Wilson.....	".....	Mason.....	48 Blodget St.
108	Luville O. Blanchard.	".....	Blacksmith.....	817 Union St.
126	Alvin McLane.....	".....	Carpenter.....	661 Chestnut St.

PENNAHOOK HOSE COMPANY NO. 1.

House No. 26 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
34	Albert Maxfield.....	Foreman.....	Belt-maker.....	23 M. S. B.
36	Joseph E. Merrill.....	Asst. foreman.	Carrier.....	21 Ash street.
50	Frank D. Burleigh....	Clerk.....	Carpenter.....	6 M. S. B.
37	Walter L. Blenus.....	Driver.....	Teamster.....	26 Vine street.
38	George H. Porter.....	Hoseman.....	Carpenter.....	279 Laurel St.
48	Albert A. Puffer.....	".....	R. R. employé....	499 Beech St.
52	Charles B. French....	".....	Carpenter.....	18 M. S. B.
53	John E. Sanborn.....	".....	".....	274 Laurel St.
35	Samuel W. Patten....	".....	Belt-maker.....	3 M. S. B.
45	George I. Ayer.....	".....	Electrician.....	28 M. S. B.
51	Edwin W. Merrill.....	".....	Clerk.....	21 Ash street.
39	Henry Gray.....	".....	Mechanic.....	7 M. S. B.

CHEMICAL ENGINE COMPANY NO. 1.

House No. 8 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
116	George N. Barpee	Foreman.....	Electrician.....	19 Ash street.
115	Jesse W. Truell.....	Clerk.....	Hackman.....	153 Hanover.
117	Warren F. Wheeler...	Driver.....	Teamster.....	8 Vine street.
118	Frank A. Pherson	Engineer.....	Engineer.....	8 Vine street.
44	Henry S. Reed.....	Fireman.....	Teamster.....	273 Chestnut St.

MASSABESIC HOSE COMPANY NO. 2.

House on Maple Street, corner East High.

Badge No.	NAME.	Rank.	Occupation.	Residence.
54	John F. Seaward.....	Foreman.....	Carpenter.....	27 Warren St.
55	Reyilo G. Houghton..	Asst. foreman.	Gas-fitter.....	288 Bridge St.
58	Henry G. Seaman.....	Clerk.....	Carpenter.....	14 South street.
57	Walter Seaward.....	Driver.....	Teamster.....	521 Maple St.
56	George W. Huntley...	Hoseman.....	Plumber.....	264 Lowell st.
59	Jos. W. Batchelder...	".....	Carpenter.....	521 Maple St.
64	Albert E. Batchelder.	".....	".....	467 Maple St.
65	Fred S. Lewis.....	".....	Plumber.....	27 South street.
62	Julien B. Huntley....	".....	".....	36 Dutton St.
63	Frank E. Heald.....	".....	Book-keeper....	289 Concord St.
60	Charles W. Powell...	".....	Carpenter.....	540 Maple St.
61	Addison Seaward....	".....	".....	296 Orange St.

EXCELSIOR HOOK-AND-LADDER COMPANY NO. 1.

House No. 18 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
91	Jerome J. Lovering...	Foreman	Carpenter.....	300 Pine street.
111	Roscoe Dyer.....	Asst. foreman .	Machinist.....	36 Water St.
90	Henry Johnson.....	Clerk.....	Piper.....	20 M. S. B.
94	Charles M. Denyou ...	Driver.....	Teamster.....	18 Vine street.
92	Oscar P. Stone	Fireman	Clerk	696 Elm street.
96	James Orrill	"	Barber	100 Blodget St.
98	John N. Chase	"	Overseer	268 Bridge St.
114	John Wilson.....	"	Carpenter.....	19 Warren St.
100	Hiram P. Young	"	Taxidermist.....	33 Dutton St.
103	Luther J. Flint	"	Carpenter.....	4 Dutton St.
104	Harrison H. Cole.....	"	"	45 M. S. B.
109	George M. Jones.....	"	Gardener.....	558 Chestnut St.
110	Pharis E. Rogers.....	"	Mason.....	118 Pearl St.
97	Charles W. Bailey....	"	Carriage-maker..	265 Concord St.
107	Henry Heap.....	"	Manufacturer ...	4 Whitney St.
93	Edward E. White.....	"	Teamster	107 Manchest'r.
113	Charles H. Laxon.....	"	Carpenter.....	9 Myrtle street.
106	Charles Edgar.....	"	"	16 M. S. B.
105	John T. Gott	"	Teamster.....	301 E. Spruce.
112	Henry C. Crosby.....	"	"	10 South street.
93	Charles Gile.....	"	Carpenter.....	56 Stark Corp.

INDEPENDENT HOSE COMPANY NO. 5.

House corner of Front Street and Old Falls Road, Amoskeag.

Badge No.	NAME.	Rank.	Occupation.	Residence.
133	Charles E. Stearns....	Foreman....	Milk-dealer.....	Front street.
134	Thomas Hamilton....	Asst. foreman.	Handle-maker..	Goffstown R'd.
135	George B. Glidden....	Clerk.....	Milk-dealer.....	Dunbart'n R'd.
136	George Lawrence....	Steward.....	" ".....	Front street.
137	Sherman L. Flanders.	Hoseman.....	Grocer.....	" "
138	Andrew J. Moynihan.	".....	Fireman.....	" "
139	Charles Linn.....	".....	Machinist.....	" "
140	Clarence H. Stearns..	".....	Clerk.....	" "
141	William F. Stearns....	".....	Leather-cutter..	" "
142	Alfred D. Maxwell....	".....	Ice-dealer.....	Goffstown R'd.
143	Elbridge G. Reed.....	".....	Driver.....	223 Lowell St.
144	Benjamin Herbert....	".....	.....	51 W. Merrim'k

LOCATION OF HYDRANTS.

Amherst, northwest corner of Vine street.
 Amherst, southwest corner of Chestnut street.
 Amherst, northwest corner of Pine street.
 Amherst, northwest corner of Union street.
 Amherst, northwest corner of Walnut street.
 Amherst, northwest corner of Beech street.
 Amherst, northwest corner of Maple street.
 Amherst, northwest corner of Lincoln street.
 Amherst, northwest corner of Ashland street.
 Amherst, northwest corner of Hall street.
 Amherst, northwest corner of Belmont street.
 Appleton, northwest corner of Elm street.
 Appleton, northwest corner of Chestnut street.
 Appleton, northwest corner of Pine street.
 Appleton, northwest corner of Union street.
 Arlington, northwest corner of Cross street.
 Arlington, northwest corner of Warren street.

Arlington, northwest corner of Ashland street.
Ash, front of No. 32.
Auburn, corner of Franklin street.
Auburn, northeast corner of Elm street.
Auburn, front of No. 40.
Auburn, northwest corner of Chestnut street.
Auburn, northwest corner of Adams street.
Auburn, northwest corner of Union street.
Auburn, northwest corner of Beech street.
Baker, corner of Elm street.
Baker, corner of River road.
Baker, corner of Calef road.
Baker, corner of Nutt road.
Bay, corner of Salmon street.
Bedford, northwest corner of Granite street.
Bedford, near No. 36 M. P. W. corporation.
Bedford, northwest corner of Central street.
Beech, northwest corner of Park street.
Beech, front of No. 584.
Belmont, near No. 345.
Belmont, corner of Young street.
Belmont, near Coffin residence.
Birch, northwest corner of Lowell street.
Birch, northwest corner of Washington street.
Blodget, front of primary school house.
Blodget, northwest corner of Chestnut street.
Blodget, northwest corner of Pine street.
Blodget, northwest corner of Union street.
Bridge, front of No. 26.
Bridge, northwest corner of Chestnut street.
Bridge, northwest corner of Union street.
Bridge, northwest corner of Walnut street.
Bridge, northwest corner of Beech street.
Bridge, northwest corner of Ash street.
Bridge, northwest corner of Maple street.
Bridge, near No. 242.
Bridge, northwest corner of Russell street.

Bridge, northwest corner of Linden street.
Bridge, corner of Ashland street.
Bridge, corner of Hall street.
Brook, northwest corner of P. Adams's lot.
Brook, northwest corner of Chestnut street.
Brook, northwest corner of Pine street.
Brook, northwest corner of Union street.
Brook, northwest corner of Beech street.
Brook, northwest corner of Ash street.
Calef road, near Patrick Harrington's.
Calef road, near D. T. Smith's house.
Canal, near east corner of Depot street.
Canal, near office door M. L. W.
Cedar, corner of Elm street.
Cedar, front of No. 36.
Cedar, northwest corner of Chestnut street.
Cedar, northwest corner of Pine street.
Cedar, northwest corner of Union street.
Cedar, northwest corner of Beech street.
Cedar, northwest corner of Maple street.
Cedar, northwest corner of Lincoln street.
Central, northwest corner of Chestnut street.
Central, northwest corner of Pine street.
Central, northwest corner of Union street.
Central, near gate, Merrimack square.
Central, northwest corner of Beech street.
Central, northwest corner of Maple street.
Central, northwest corner of Lincoln street.
Central, front of No. 374.
Central, northwest corner of Wilson street.
Central, northwest corner of Hall street.
Central, corner of Cass street.
Chestnut, northwest corner of Lowell street.
Chestnut, opposite High street.
Chestnut, northwest corner of Pearl street.
Chestnut, northwest corner of Orange street.
Chestnut, northwest corner of Myrtle street.

Chestnut, northwest corner of Prospect street.
Clarke, northwest corner of Elm street.
Clarke, northwest corner of Chestnut street.
Concord, corner Elm street.
Concord, opposite Vine street.
Concord, northwest corner of Chestnut street.
Concord, northwest corner of Union street.
Concord, northwest corner of Walnut street.
Concord, northwest corner of Beech street.
Concord, northwest corner of Maple street.
Concord, northwest corner of old Amherst street.
Concord, northwest corner of Ashland street.
Concord, northwest corner of Hall street.
Concord, northwest corner of Belmont street.
Cypress, south end of street.
Cypress, at Manchester shoe-shop.
Dean, northeast corner of Canal street.
Dean, northwest corner of Elm street.
Depot, northeast corner of Elm street.
Elm, front Temple & Farrington Co.'s bookstore.
Elm, northwest corner of Salmon street.
Elm, northwest corner of Cove street.
Franklin, opposite Middle street.
Gore, corner of Beech street.
Granite, northwest corner of Elm street.
Granite, near Franklin street.
Granite, northeast corner of Canal street.
Granite, east end of Granite bridge.
Grove, corner of Elm street.
Hancock street.
Hancock, near shoe-shop.
Hancock, northwest corner of River road.
Hancock, near brewery.
Hanover, corner of Elm street.
Hanover, front of Opera House.
Hanover, northwest corner of Chestnut street.
Hanover, northwest corner of Pine street.

Hanover, northwest corner of Union street.
Hanover, northwest corner of Beech street.
Hanover, northwest corner of Maple street.
Hanover, northwest corner of Lincoln street.
Hanover, northwest corner of Ashland street.
Hanover, northwest corner of Hall street.
Hanover, northwest corner of Belmont street.
Harrison, opposite No. 15.
Harrison, northwest corner of Chestnut street.
Harrison, northwest corner of Pine street.
Harrison, northwest corner of Union street.
Harrison, northwest corner of Beech street.
Harrison, northwest corner of Maple street.
Harrison, northwest corner of Oak street.
Harrison, northwest corner of Russell street.
High, corner of Ashland street.
High, corner of South street.
High, fifty feet east of Wilson road.
Hollis, northeast corner of Canal street.
Hollis, northeast corner of Hobbs street.
Hollis, northwest corner of Elm street.
Jewett, corner of Massabesic street.
Kidder, northeast corner of Canal street.
Kidder, northeast corner of Hobbs street.
Kidder, northwest corner of Elm street.
Kidder's court, northwest corner of Elm street.
Lake avenue, near No. 36.
Lake avenue, northwest corner of Chestnut street.
Lake avenue, northwest corner of Union street.
Lake avenue, northwest corner of Maple street.
Lake avenue, northwest corner of Lincoln street.
Lake avenue, northwest corner of Wilson street.
Lake avenue, corner of Cass street.
Lake avenue, east end near Hastings residence.
Langdon, northwest corner of Elm street.
Langdon, northeast corner of Canal street.
Laurel, northwest corner of Pine street.

Laurel, northwest corner of Union street.
Laurel, northwest corner of Beech street.
Laurel, northwest corner of Maple street.
Laurel, northwest corner of Lincoln street.
Laurel, near No. 244.
Laurel, northwest corner of Wilson street.
Laurel, near Belmont street.
Laurel, northwest corner of Milton street.
Laurel, northwest corner of Beacon street.
Lowell, northwest corner of Beech street.
Lowell, northwest corner of Ash street.
Lowell, northwest corner of South street.
Lowell, front of No. 276.
Lowell, northwest corner of Wilson road.
Lowell, northwest corner of Ashland street.
Mammoth road.
Manchester, corner of Elm street.
Manchester, front of James Bros.' stable.
Manchester, northwest corner of Central street.
Manchester, northwest corner of Pine street.
Manchester, northwest corner of Union street.
Manchester, northwest corner of Beech street.
Manchester, northwest corner of Maple street.
Manchester, northwest corner of Lincoln street.
Manchester, northwest corner of Wilson street.
Manchester, northwest corner of Hall street.
Manchester, northwest corner of Belmont street.
Maple, northwest corner of Lowell street.
Maple, front of No. 350.
Market, near Canal street.
Market, near second back street west of Elm street.
Market, northwest corner of Elm street.
Massabesic, northwest corner of Old Falls road.
Massabesic, southeast corner of Taylor street.
Massabesic avenue.
Massabesic, near Mammoth road.
Mechanic, northeast corner of Canal street.

Mechanic, near second back street west of Elm street.

Mechanic, northwest corner of Elm street.

Merrimack, corner of Elm street.

Merrimack, opposite gate, Merrimack square.

Merrimack, northwest corner of Chestnut street.

Merrimack, northwest corner of Pine street.

Merrimack, northwest corner of Union street.

Merrimack, northwest corner of Beech street.

Merrimack, northwest corner of Maple street.

Merrimack, northwest corner of Lincoln street.

Merrimack, near No 362.

Merrimack, northwest corner of Wilson street.

Merrimack, northwest corner of Hall street.

Merrimack, near Belmont street.

Merrimack, northwest corner of Beacon street.

Middle, northeast corner of Canal street.

Middle, near No. 67 Amoskeag corporation.

Monroe, northwest corner of Elm street.

Myrtle, opposite No. 33.

Myrtle, northwest corner of Pine street.

Myrtle, northwest corner of Union street.

Myrtle, northwest corner of Walnut street.

Myrtle, northwest corner of Beech street.

Myrtle, northwest corner of Ash street.

Myrtle, northwest corner of Maple street.

Myrtle, northwest corner of Oak street.

Myrtle, northwest corner of Russell street.

North, northwest corner of Bay street.

North, northwest corner of Chestnut street.

North, northwest corner of Pine street.

North, corner of Liberty street.

Orange, opposite Clark's avenue.

Orange, northwest corner of Pine street.

Orange, northwest corner of Union street.

Orange, northwest corner of Walnut street.

Orange, northwest corner of Beech street.

Orange, corner of Ash street.

Orange, corner of Maple street.
Orange, corner of Oak street.
Orange, corner of Russell street.
Pearl, northwest corner of Elm street.
Pearl, northwest corner of Clark's avenue.
Pearl, northwest corner of Pine street.
Pearl, northwest corner of Union street.
Pearl, corner of Beech street.
Pearl, corner of Walnut street.
Pearl, northwest corner of Ash street.
Pearl, northwest corner of Maple street.
Pearl, northwest corner of Oak street.
Pearl, northwest corner of Russell street.
Pearl, northwest corner of Linden street.
Pearl, northwest corner of Ashland street.
Pennacook, northwest corner of Chestnut street.
Pennacook, northwest corner of Pine street.
Pennacook, northwest corner of Union street.
Pine, near Road House.
Pine, northwest corner of Lake avenue.
Pine, northwest corner of Hanover street.
Pine, northwest corner of Concord street.
Pine, northwest corner of Lowell street.
Pine, northwest corner of High street.
Pine, northwest corner of Bridge street.
Pleasant, northeast corner of Canal street.
Pleasant, near No. 35 Manchester corporation.
Pleasant, northwest corner of Franklin street.
Pleasant, northwest corner of Elm street.
Prospect, between Elm and Chestnut streets.
Prospect, northwest corner of Chestnut street.
Prospect, northwest corner of Pine street.
Prospect, northwest corner of Union street.
Prospect, northwest corner of Walnut street.
Prospect, northwest corner of Beech street.
Prospect, northwest corner of Ash street.
Prospect, northwest corner of Maple street.

Prospect, northwest corner of Oak street.
Prospect, northwest corner of Russell street.
Prospect, corner of Linden street.
Reservoir, on force main.
River road (north), north of Webster street.
River road (north), near Mrs. John Kelly's.
River road (north), near J. Otis Clark's.
River road (south), near gate of tannery.
Sagamore, corner of Union street.
Shasta, corner of Elm street.
Shasta, corner of River road.
Shasta, corner of Beech street.
Silver, corner of Union street.
Silver, corner of Beech street.
Somerville, corner of Union street.
Spring, northeast corner of Canal street.
Spring, northwest corner of Charles street.
Spring, northwest corner of Elm street.
Spring, corner of Elm street.
Spruce, northwest corner of Chestnut street.
Spruce, northwest corner of Pine back street.
Spruce, northwest corner of Union street.
Spruce, between Chestnut and Elm streets.
Spruce, northwest corner of Beech street.
Spruce, northwest corner of Maple street.
Spruce, northwest corner of Lincoln street.
Spruce, northwest corner of Wilson street.
Spruce, northwest corner of Belmont street.
Spruce, near T. J. Perry's house.
Stark, northeast corner of Canal street.
Stark, near No. 13 Stark corporation.
Stark, northwest corner of Elm street.
State, northwest corner of Granite street.
State, opposite No. 57 Manchester corporation.
State, opposite No. 13 Manchester corporation.
State, corner of West Central street.
Summer, corner of Elm street.

Taylor, corner Young road.
Union, northwest corner of Lowell street.
Union, northwest corner of High street.
Valley, northwest corner of Elm street.
Valley, northwest corner of Willow street.
Valley, northwest corner of Beech street.
Valley, northwest corner of Wilson street.
Valley, northwest corner of Belmont street.
Valley, northwest corner of Taylor street.
Valley, northwest corner of Cypress street.
Valley, northwest corner of Jewett street.
Valley, 150 feet east of J. L. Woodman's.
Walnut, northwest corner of Lowell street.
Walnut, opposite No. 79.
Water, near No. 38 Amoskeag corporation.
Water, northwest corner of Elm street.
Webster, northwest corner of Chestnut street.
Webster, corner of Adams street.
Webster, northwest corner of Union street.
West Auburn, northeast corner of Canal street.
West Bridge, northeast corner of Canal street.
West Bridge, northeast corner of Hobbs street.
West Bridge, northwest corner of Elm street.
West Brook, northeast corner of Canal street.
West Brook, northwest corner of Elm street.
West Cedar, northeast corner of Canal street.
West Cedar, northwest corner of Elm street.
West Central, northeast corner of Canal street.
West Central, corner of Franklin street.
West Central, northwest corner of Elm street.
West Merrimack, northeast corner of Canal street.
West Merrimack, near 111 Amoskeag corporation.
West Merrimack, northwest corner of Franklin street.
West Merrimack, northwest corner of Elm street.
West Pennacook, northwest corner of Elm street.
West Webster, northwest corner of Elm street.
West Webster, northeast corner of River road.

Wilson, corner of Lake avenue.
 Young, corner of Elm street.
 Young, northwest corner of Beech street.
 Young, corner of Maple street.
 Young, 96 feet east of R. N. Batchelder's.
 Young, corner of Jewett street.
 Young road.

PISCATAQUOG AND MCGREGORVILLE.

A, corner of South Main street.
 A, near No. 73.
 A, northwest corner of B street.
 Adams, corner of Main street.
 Adams, corner of Beauport street.
 Amory, corner of Beauport street.
 Amory, near Dubuque street.
 Amory, corner of Rimmon street.
 Bath, corner of River street.
 Bath, corner of Shirley street.
 Bedford road, near Huntress's.
 Bennington, corner of Main street.
 Blaine, corner of Wayne street.
 Blaine, corner of Cleveland street.
 Blaine, east end of street.
 Bowman street, opposite cemetery.
 C street, corner of Bedford road.
 Cartier, corner of Sullivan street.
 Cartier, corner of Putnam street.
 Carroll street.
 Clinton, corner of Dover street.
 Clinton, corner of South Main street.
 Conant, corner of Cartier street.
 Conant, corner of Dubuque street.
 Douglas, corner of Quincy street.
 Douglas, corner of Green street.
 Douglas, corner of Barr street.
 Douglas, corner of West street.

Douglas, corner of Main street.
Douglas, east of Main street.
Ferry, corner of Main street.
Granite, corner of Quincy street.
Granite, corner of Green street.
Granite, corner of Barr street.
Granite, corner of West street.
Granite, corner of Dover street.
Granite, corner of Main street.
Granite, corner of Shirley street.
Granite, corner of River street.
Kelly, corner of Beauport street.
Kelly, corner of Cartier street.
Kelly, corner of Dubuque street.
Mair, near Milford street.
Marion, corner of McGregor street.
Mast, corner of South Main street.
Mast, corner of Bowman street.
Mast, between Bowman and South Main streets.
Mast, opposite J. C. Smith's house.
Mast, 400 feet west of Charles Hoitt's house.
Mast, near J. P. Brock's.
Mast, near the J. N. Prescott house.
McGregor, near Johnson block.
McGregor, opposite "Reed" house.
Milford, southwest corner of South Main street.
Milford, southeast corner of Bowman street.
Milford, corner of Old Bedford road.
Patten, corner of Ferry street.
Putnam, corner of Main street.
Putnam, corner of Beauport street.
Putnam, corner of Dubuque street.
Riddle, near Mast street.
School, corner of South Main street.
School, opposite schoolhouse.
School, corner of River street.
Shirley, northwest corner of Walker street.

Shirley, southwest corner of Ferry street.
 Sullivan, corner of Main street.
 Sullivan, corner of Beauport street.
 Temple, corner of Main street.
 Walker, corner of River street.
 Walker, corner of Patten street.
 Walker, corner of Parker street.
 Walker, near corner of South Main street.
 Wayne, near G. Belisle's house.
 Wayne, near corner of Beauport street.
 Wayne, near corner of Main street.
 Winter, corner of South Main street.

AMOSKEAG.

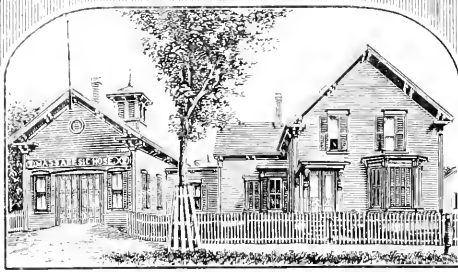
Dunbarton road, corner of Front street.
 Dunbarton road, near L. D. Colby's.
 Goffstown road, *four hydrants*.
 Main, at Robinson's slaughter-works.
 Main, near brick schoolhouse.
 Main, corner of Goffstown road.
 Main, opposite the John E. Stearns house.
 Main, near the Hiram Stearns house.
 Mill, near paper-mill.
 Mill, corner of Main street.
 Varnum, corner of Main street.

In addition to the above, there are five private hydrants that are available in case of need :

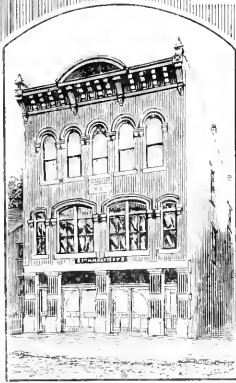
Two at P. C. Cheney Co.'s paper-mill
 One at S. C. Forsaith Co.'s machine shop.
 One at J. Hodge's wood-working establishment.
 One at the A. H. Lowell iron foundry.
 Total number, 458.

REPORT
OF THE
TRUSTEES OF THE CITY LIBRARY.

10



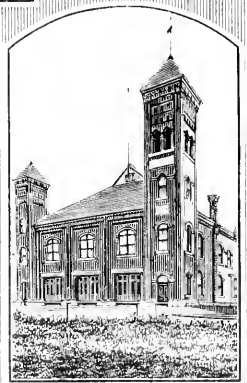
31. MASSABESIC HOSE CO.



32. BATTERY
BUILDING.



28. GEN. STARK.
WEBSTER ST.



30. MERRIMACK.
LAKE AVE.



36. COURT HOUSE.



10. CITY LIBRARY.

R E P O R T
OF THE
TRUSTEES OF THE CITY LIBRARY.

To the City Councils of the City of Manchester :

The Trustees of the City Library herewith respectfully present their thirty-seventh annual report of the affairs of the library, and with the same the report made to them by the treasurer of the board, containing a statement of the amounts received and the expenditures made by him in behalf of the board from the funds in their possession and under their control, and also the report of the librarian giving in detail the statistics of the operation of the library during the year, and the condition of the property in her charge at the close of the year.

The treasurer's report shows that during the year the sum of fifteen hundred and twelve dollars and eighty-nine cents has been expended for the purchase of books, and the sum of one hundred and seventy dollars and eighty-one cents for the purchase of periodicals, making a total expenditure for both these purposes of sixteen hundred and eighty-three dollars and seventy cents. Of the amount expended for the purchase of books, the sum of one hundred and forty-five dollars and ten cents was taken from the income of the Dean Fund, and used for the purchase of additional books for that department of the library, and the sum of three hundred and sixty-six dollars and eleven cents was expended in the purchase of books to replace those worn out and withdrawn from circulation. Excluding those two amounts, the sum expended for the purchase of books is one thousand and one

dollars and sixty-eight cents. The balance in the hands of the treasurer, at the close of the year, of the amounts appropriated by the City Councils for the purchase of books, was four hundred and eighty-three dollars and four cents.

The balance of the accumulated income of the Dean Fund at the end of the year was five thousand nine hundred and fifty-seven dollars and ten cents. In expending the income of this fund the trustees have followed the plan originally adopted, of purchasing special works on mechanical and scientific subjects.

The accumulated income of the Mary E. Elliot fund at the close of the year was five hundred and twenty-two dollars and eighty-two cents.

No books have as yet been purchased from the income of this fund, but the trustees expect soon to arrange for the purchase of that class of books specified in the will of Mrs. Elliot.

The incidental expenses of the library for the past year have been three thousand two hundred and thirty-nine dollars and eighty-eight cents, which amount includes the sum of eight hundred and eighty-eight dollars and twelve cents expended towards the preparation of a new catalogue.

The items of these expenditures may be found in detail in the annual report of the city, the bills for the same having been paid by the city treasurer, upon the approval of the trustees, from the sum appropriated for the library.

The librarian reports that the library has been open for the delivery of books three hundred and eight days, during which time the number of books delivered for home use was fifty-one thousand four hundred and ninety-eight, being an average of one hundred and sixty-seven per day. In addition to this number delivered for general circulation, ten thousand and fifteen books were delivered for use in the reading-room at the library, an average of about thirty-two per day. The total number of books delivered for both these purposes during the year, was sixty-one thousand five hundred and thirteen, an average of almost two hundred per day. As compared with the year preceding, the circulation for home use shows an increase of two thousand three hundred and eleven, and the number delivered for use at the

reading-room an increase of six hundred and thirty-two, a total increase of twenty-nine hundred and forty-three. For convenience of comparison the circulation of the library for twelve years is given below in tabular form, from which it appears that the circulation of books for home use of the past year was exceeded in the years 1879, 1883, 1885, and 1886, while the total circulation was exceeded only in the year 1879. No explanation is given in the report of the librarian of that year for the large increase in the number of books used in the reading-room, the largest in the history of the library.

TABLE OF CIRCULATION, 1879 to 1890 INCLUSIVE.

Year.	For home use.	Use in reading-room.	Total.
1879	53,558	10,861	64,419
1880	45,109	7,128	52,237
1881	38,122	4,916	43,038
1882	41,788	4,770	46,558
1883	53,948	4,380	58,328
1884	50,914	5,848	56,762
1885	55,142	5,156	60,298
1886	54,037	5,540	59,577
1887	50,335	5,665	56,000
1888	50,417	6,031	56,448
1889	49,187	9,383	58,570
1890	51,498	10,015	61,513

The number of volumes in the library at the date of the last report was thirty-two thousand five hundred and twenty-three. During the year there have been added six hundred and eighty-seven volumes by purchase, three hundred and thirty-seven volumes by donation, and ninety-two volumes of periodicals have been bound, making the number of bound volumes in the library at the close of the year, thirty-one thousand six hundred and thirty-three, and the total number, including maps and pamphlets, thirty-three thousand six hundred and thirty-nine.

Eighty-three different periodicals have been regularly received at the library during the year, — sixty by purchase and twenty-three by donation, and as the several volumes have been completed they have been bound and placed upon the shelves for general circulation.

The number of volumes withdrawn from circulation on account of their worn and defaced condition was eighty-six. Of this number, and of others retired from circulation in previous years for the same reason, four hundred and fourteen have been replaced at a cost of three hundred and sixty-six dollars and eleven cents. There is still a large number of books remaining upon the shelves, which by long and constant use have become badly worn, and must soon be replaced by new editions, the purchase of which will be a considerable item for several years. A special appropriation should be made by the City Councils for this purpose, that the usual annual appropriation may be applied, as undoubtedly intended under the original contract, to the purchase of new books and periodicals, and not for the renewal of books worn out and lost.

Following the report of the librarian is a list of books presented to the library during the year with the names of the persons presenting them. Among these donations are sixty-eight volumes of the British Poets, presented by the Hon. Moody Currier, as an addition to the "Currier Donation," making a total number of twelve hundred and thirty volumes presented by him to the library for this department. Due acknowledgment has been made to all those who have in this manner contributed to the increase of the library.

Three portraits in oil have been presented to the library during the year : one of the late Hon. Samuel N. Bell, who was one of the trustees, and the treasurer of the Board from the time the library was established till his resignation in 1879, presented by his brother, Hon. John J. Bell ; one of the late Hon. John Hosley, mayor of the city in the years 1866, 1887, and 1888, presented by his daughter, Mrs. William M. Parsons, and one of the late Dr. Josiah Crosby, one of the leading physicians of the city, presented by Mrs. George A. Crosby. The trustees hope that

portraits of other prominent citizens may be added to the collection already in the library rooms.

The estate of the late Eliza A. Eaton, the residue of which, after payment of debts and legacies, was devised and bequeathed to the city for the benefit of the library, and of which mention was made in the last report of the Board, is still unsettled, and in the hands of the executor. The trustees are not aware of any reason why all matters relating to this estate should not be finally determined during the present year, and the balance of the estate paid over for the purpose expressed in the will of Mrs. Eaton.

The compilation of a new catalogue of the library, of which mention was made in the last report as having been commenced, has been continued during the year by Mr. Charles A. Durfee, who was engaged to prepare the same under the supervision of a committee of the trustees. The work upon the catalogue has not progressed so rapidly, nor advanced so far toward completion at this time as the trustees were led to expect by the compiler it would be when he entered upon its preparation. It was not expected that more than a year would be needed for the proper preparation of the manuscript of the catalogue for the printer. That the work upon the catalogue might be carried on as rapidly as practicable, the trustees, at the close of the year, secured the services of Mrs. Emma A. H. Piper, as an assistant to Mr. Durfee. It is now expected that the catalogue may be ready for the printer about the middle of the present year.

In the death of the Hon. Daniel Clark, which occurred January 2 of the present year, the Board of Trustees has sustained the loss of one of its most honored and useful members. The late Judge Clark was one of the directors of the Athenæum and under the contract with that institution establishing the City Library in 1854 became a member of the Board of Trustees, and held the position continuously to the time of his death. He always manifested a deep interest in the success and welfare of the library, and by his valuable advice and earnest efforts in its behalf materially assisted in the establishing of the library, and in its successful operation.

The duties of librarian have been performed by Mrs. M. J. Buncher during the year with the same fidelity to the public as in previous years, and to the satisfaction of the trustees.

The trustees desire again to return their acknowledgments to the members of the City Councils for the courtesy and consideration with which their suggestions relating to the operation or improvements for the library have been received and carried out.

MARCH 10, 1891.

In Board of Trustees, read and approved, and ordered to be signed by the chairman and clerk of the Board, and transmitted to the City Councils.

E. J. KNOWLTON, *Mayor*.

N. P. HUNT, *Clerk*.

At a meeting of the Trustees of the City Library held at the mayor's office on the 10th day of March, 1891, the following resolutions of respect to the memory of the late Judge Clark, presented by Judge Isaac W. Smith, were unanimously adopted :

WHEREAS, On the second day of January of the present year, the Hon. Daniel Clark, a member of this Board from its formation in 1854, departed this life; and

WHEREAS, It is fitting that the surviving members of this Board should put on record their appreciation of his valuable services to the city as a member of the Board; therefore,

Resolved, That in the death of Judge Clark the city of Manchester has met with an irreparable loss. His interest in the intellectual welfare of its citizens was early manifested in the formation and maintenance of the Manchester Athenæum, of which he was a prominent officer. However well adapted that institution was to the needs of the city in the earlier years of its existence, when it became necessary to lay the foundations of an institution as deep and broad as the prospective growth of the city required, he cordially co-operated with the late Chief Justice Bell and others in merging the Athenæum in the present organization, and, to the time of his death, gave it the benefit of his cultivated mind and of his large business experience. He took pride in its growth and success, and pleasure in the rich benefits his fellow citizens were thereby enabled to enjoy. Other organizations have placed on record their testimony of the value of his services to the city, the State, and the nation in other offices of trust which he was called to hold, of his high standing as a lawyer and judge, and of his character as a citizen, in all of which this Board

cordially joins. On this occasion the trustees of the city library discharge a grateful duty by placing on their records this testimonial of their appreciation of his invaluable services as one of its trustees.

Resolved, That a copy of these resolutions be forwarded to the family of the deceased.

TREASURER'S REPORT.

To the Board of Trustees of the City Library :

The Treasurer of the Board presents the following account of the receipts and expenditures by the board of the funds received on account of the Library :

1890.			DR.
Jan.	1.	To balance of appropriation, etc.	\$939.91
Feb.	8.	Mrs. M. J. Buncher, fines, catalogues, etc.	81.73
July	8.	appropriation for books for 1890	1,000.00
			\$2,021.64
Jan.	1.	To balance of income of Dean fund	\$5,542.25
		income of Dean fund	153.00
July	1.	income of Dean fund	153.00
		interest on accumulation of income	253.95
			6,102.20
Jan.	1.	To Mary E. Elliot fund	\$2,000.00
		balance of interest on Mary E. Elliot fund	414.19
April	1.	interest on Mary E. Elliot fund	90.00
		interest on accumulation of income	18.63
			2,522.82
			\$10,646.66

1890.		CR.	
Jan.	3.	Paid New England News Co., periodicals	\$11.48
	6.	Geo. H. Polley & Co., periodicals	6.00
	7.	Boston Book Co., periodicals	5.00
	25.	Central Law Journal, periodicals	5.00
Feb.	4.	New England News Co., periodicals	11.74
	5.	W. B. Clarke & Co., books	26.75
	6.	The History Co., books	4.50
	8.	J. N. McClintock, books	2.00
		Sampson, Murdock, & Co., books	3.50
		Frank B. Webster, periodicals	1.00
		J. H. Hickcox, periodicals	5.00
		Charles Scribners' Sons, books	5.00
	13.	James E. Abbe, books	1.25
	17.	Estes & Lauriat, books	9.00
March	8.	New England News Co., periodicals	11.97
	22.	Little, Brown & Co., books	3.50
April	4.	New England News Co., periodicals	15.87
	28.	The History Co., books	4.50
	29.	The Franklin Institute, books	5.00
		The Historical Society of Penn., books	5.00
		William T. Davis, books	1.66
May	3.	New England News Co., periodicals	10.91
	10.	New Hampshire State Library, books	10.00
	13.	W. B. Clarke & Co., books	355.20
		W. B. Clarke & Co., books (replaced)	22.39
	14.	Little, Brown & Co, books	3.75
		Geo. A. Leavitt & Co., books	6.05
	17.	W. B. Clarke & Co., books	82.44
		W. B. Clarke & Co., books (replaced)	81.17
	29.	W. B. Clarke & Co., books	26.15
		W. B. Clarke & Co., books (replaced)	102.01
June	4.	New England News Co., periodicals	13.60
	13.	Balch Bros., books	30.00
	19.	Geo. E. Littlefield, books	24.30
	26.	Estes & Lauriat, books	9.00

July	8.	New England News Co., periodicals	\$10.43
	9.	W. B. Clarke & Co., books . . .	80.37
		W. B. Clarke & Co., books (replaced)	18.97
	15.	W. B. Clarke & Co., books . . .	3.68
		W. B. Clarke & Co., books (replaced)	1.50
	29.	The History Company, books . . .	4.50
Aug.	5.	New England News Co., periodicals	10.86
		W. B. Clarke & Co., books . . .	22.23
	6.	W. H. Briggs, treasurer, books . . .	5.00
		Little, Brown & Co., books (Dean purchase)	145.10
Sept.	5.	New England News Co., periodicals	16.20
	11.	Little, Brown & Co., books . . .	4.25
	13.	W. B. Clarke & Co., books . . .	17.17
		W. B. Clarke & Co., books (replaced)	113.93
	20.	W. B. Clarke & Co., books . . .	3.58
		W. B. Clarke & Co., books (replaced)	15.12
		Temple & Farrington Co., books . . .	.50
	27.	S. G. Abbott, books	2.00
Oct.	2.	New England News Co., periodicals	11.05
	3.	W. B. Clarke & Co., books (\$11.02 replaced)	12.86
	20.	Estes & Lauriat, books	9.00
	24.	The History Company, books . . .	4.50
Nov.	3.	New England News Co., periodicals	11.16
	6.	Boston Society Natural History, books	10.00
	10.	Little, Brown & Co., books . . .	3.50
		Balch Bros., books	10.00
	26.	Estes & Lauriat, books	9.00
Dec.	2.	New England News Co., periodicals	13.54
	4.	W. B. Clarke & Co., books . . .	21.52
	22.	W. B. Clarke & Co., books . . .	170.49
	31.	By balance of appropriation, etc. . .	483.04
		balance of Dean fund	5,957.10
		Mary E. Elliot fund and interest . .	2,522.82
			\$10,646.66

The expenditures for the incidental expenses of the library for the year ending December 31, 1890, paid by the city treasurer upon the approval of the committee on accounts of the board of trustees, the items of which may be found in detail in the annual report of the city, are as follows :

Services of librarian	\$800.00
Services of assistant librarian	335.72
Gas	216.86
Insurance	100.00
Binding	144.09
Rebinding	207.67
Supplies	193.72
Fuel	289.28
Printing	11.00
Newspapers	6.00
Water	32.00
Incidentals	15.42
New catalogue	888.12
	<hr/>
	\$3,239.88

RECAPITULATION.

Balance Dec. 31, 1889	\$2,047.45	
Balance of appropriation for catalogue	776.10	
	<hr/>	\$2,823.55
Appropriation for 1890		4,000.00
Additional appropriation for catalogue	\$2,500.00	
Additional appropriation for catalogue	1,000.00	
	<hr/>	3,500.00
		<hr/>
		\$10,323.55
Paid trustees for purchase of books	\$1,000.00	
Paid incidental expenses and catalogue	3,239.88	
Balance Dec. 31, 1890	\$2,695.69	
Balance, Dec. 31, 1890, of ap- propriation for catalogue	3,387.98	
	<hr/>	6,083.67
		<hr/>
		\$10,323.55

Respectfully submitted.

NATHAN P. HUNT,

Treasurer of the Trustees of the City Library.

DECEMBER 31, 1890.

We have examined the foregoing report and find the same correctly cast and properly vouched.

D. B. VARNEY,

L. B. CLOUGH,

Committee on Accounts of City Library.

DECEMBER 31, 1890.

I certify that I have examined the several items of receipts and expenditures embraced in the foregoing report of the Treasurer of the Trustees of the City Library, and find the same correctly cast and properly vouched.

JAMES B. STRAW,

City Auditor.

LIBRARIAN'S REPORT.

Gentlemen of the Board of Trustees :

I respectfully submit to you the thirteenth report of the City Library, showing the work of the year and its present condition.

Whole number of volumes Dec. 31, 1889 32,523

Accessions during the year :

By purchase	687	
Donated	337	
Periodicals and papers bound	92	
	1,116	1,116

Whole number of volumes at present :

Maps	16	
Pamphlets	1,990	
Bound volumes	31,633	
	33,639	33,639

Number of periodicals and papers regularly received	
by purchase	60
Number by gift	23
Number of days open to the public for reading and distribution of books	308
Number of books delivered for home use	51,498
Average per day	167.2
Largest number any one day, March 16	361
Largest number any one month, March	4,990

Number of books, magazines, etc., used in the reading-room	10,015
Average per day	32.5
Number of guarantees received and new cards issued during the year	429
Whole number since new registration	7,623
Number of cards returned to the library during the year	84
Number used on deposit	13
Postals sent to delinquents	455
Number of volumes taken from the shelves, unfit for use	86
Volumes replaced during the year	414
Number of books lost or destroyed and paid for	5
Not yet paid for	2
Books repaired at the bindery	500
Number repaired and covered in the library	4,792
Balance of fines on hand Dec. 31, 1889	\$77.93
Amount received from Jan. 1 to Dec. 1, 1890	119.14
	<hr/>
	\$197.07
Amount paid for express, stationery, and incidentals	\$46.98
Paid N. P. Hunt, treasurer	77.93
	<hr/>
	124.91
	<hr/>
Balance of fines on hand Dec. 31, 1890	\$72.16
Balance of cash on hand Dec. 31, 1889, for catalogues and supplements sold, and lost or injured books	\$3.80
Amount received from Jan. 1 to Dec. 31, 1890:	
For 250 finding-lists at 10 cts.	\$25.00
For 2 old supplements at 15 cts. . . . .	.30
For 5 books lost or destroyed	5.21
	<hr/>
	30.51
	<hr/>
	\$34.31

Paid the treasurer	\$3.80
	<hr/>
	\$30.51
Balance of fines on hand	72.16
	<hr/>
Total balance on hand	\$102.67

The general work of the library the past year has been uniform with the preceding ones, but its gradual growth brings increase of labor, and the work of compiling a new catalogue (although performed by a specialist) necessarily brings additional work and has made the year an unusually busy one.

The reclassification and recataloguing are steadily progressing, and we rejoice in the belief that before another year has passed we shall be in possession of both a new printed catalogue for general use and card catalogue for exclusively library use.

The issuing of a finding-list of the late works of fiction and juvenile already shows its influence in the circulation, and the catalogue, even in its present condition, is of great service in enabling us more readily to find the recent works of the higher branches of literature.

The delivery of books for home use for the year shows an increase of 2,311, and as the greatest gain has been made during the last four months we may give the credit largely to the finding-list referred to above; 250 have already been sold. It will be observed, also, that the number using the reading-room has steadily increased. During the year 1887 the number was 5,665; the past year shows 10,015 (not including the number who come to consult the patent office and state law reports), an increase of 4,350 in three years. It seems that this showing should stimulate a forward movement toward the provision of a more commodious and agreeable apartment for the public use.

There has been very little cause for criticism or complaint in regard to the deportment of the younger visitors. The improvement in this respect has been very marked.

The number of new cards issued during the year is larger than in 1889, and the number relinquished less.

Eighty-six volumes have been withdrawn from circulation,

unfit for longer use, and 414 have been replaced, relieving us greatly in the department of fiction and juvenile. There are many more which we trust will be obtained before the completion of the catalogue. The total number of books added to the library during the year is 1,116; by purchase 687. Of this number 78 were a purchase from the "Dean Fund," on mechanical and scientific subjects. Of the 337 volumes donated, special mention should be made of the liberal gift by the Hon. Moody Currier of 68 volumes, viz., the Riverside edition of "British Poets."

A large number of pamphlets have been received not included in the accession number, but held in reserve for future arrangement.

Our periodical list remains the same, but I would respectfully suggest a change in some of the publications, as they are so rarely called for, and seem of little practical use to our patrons.

The departments of Congress have shown their usual liberality. Besides a large number of miscellaneous publications, we have received 75 volumes belonging to the regular set of the Forty-ninth and Fiftieth Congresses, and at their request we have returned to them about 100 duplicates of past Congresses, to supply deficiencies in other public libraries.

The work of repairing books has been less at the bindery, but an increase of 576 volumes in the library, including the recovering.

We have had very little trouble from delinquents. Some, of course, are in arrears for fines, and two lost books are yet unpaid for.

The examination of the library shows four books missing at the present time. Two are very old editions of fiction and juvenile; the other two doubtless will be returned later on.

In closing I desire to express my sincere sorrow in the recent death of one of the honored members of the Board of Trustees. The memory of his uniform kindness, his pleasant words of cheer and encouragement, and his unwavering interest in all pertaining to the library, made him a helpful and wise counselor, an honored and respected friend.

Respectfully submitted.

MRS. M. J. BUNCHER, *Librarian.*

DONATIONS TO THE CITY LIBRARY.

1890.

SECRETARY OF THE STATE OF NEW HAMPSHIRE.

Annual Reports of the State, 1889. Vols. 1 and 2. 8vo.

Journal of the Senate and House, 1889. 1 vol. 8vo.

Pamphlet Laws of New Hampshire, 1889. 1 vol. 8vo.

Constitutional Convention, 1889. 1 vol. 8vo.

IRVING A. WATSON, M. D., Secretary.

Eighth Annual Report of the New Hampshire State Board of Health. 1889. 1 vol. 8vo.

HON. MOODY CURRIER.

Sixty-eight volumes of "British Poets." Riverside edition. 12mo.

HON. JAMES F. BRIGGS, Manchester.

Eleven volumes of the Official Records of the Union and Confederate Armies. From Vol. 27 to Vol. 30, with parts. 8vo.

JOHN C. LINEHAN, Commissioner.

Twenty-first Annual Report of the New Hampshire Insurance Commissioner. 1890. 8vo.

BENJAMIN C. DEAN, ESQ., Manchester.

Scientific and Industrial History of Aniline Black. By Nelting. 1889. 8vo.

HON. BENJAMIN F. PRESCOTT, Epping, N. H.

History of the Class of 1856, Dartmouth College. By B. F. Prescott. 1890. 8vo.

HISTORICAL SOCIETY OF PENNSYLVANIA.

Charlemagne Tower Collection of American Colonial Laws.
1890. 8vo.

EDWARD INGERSOL, Esq., Philadelphia.

Recollections: Historical, Political, Geographical, and
Social. By Charles J. Ingersol. Vol 1. 8vo.

WILFORD WOODRUFF, Utah.

History of Utah. By Herbert H. Bancroft. From 1540 to
1887. 1 vol. 1890. 8vo.

WALDO THOMPSON, Esq., Lynn, Mass.

Sketches of Swampscott, Mass. 1885. 12mo.

CHARLES H. OSGOOD, Esq., Manchester.

Narrative of the Second Arctic Expedition Made by C. F.
Hall. 1864-69. 1 vol 4to.

WILLIAM I. WASHBURN. (Author.)

"Spring and Summer, or Blushing Hours." Poems.
1890. 16mo.

WILBUR LARREMORE, New York. (Author.)

"Mother Carey's Chickens." Poems. 1890. 16mo.

ALLEN EASTMAN CROSS, Manchester.

"Amherst Memories." A collection of undergraduate
verse of Amherst College. 1890. 16mo.

REV. WILLIAM E. GRIFFIS, Boston. (Author.)

"Japanese Fairy World." 1880. 16mo.

CITY OF NASHUA, N. H.

Memorial Volume of the Soldiers' and Sailors' Monument,
erected at Nashua in 1889. 8vo.

DAVID MCKNIGHT, Esq., Philadelphia. (Author.)

"The Electoral System of the United States." 12mo.

BOSTON & MAINE R. R.

"Along Shore among the Mountains, Lakes, and Streams."
By M. A. Sweetzer. 1889. 12mo.

CHARLES A. DURFEE, New York.

History of Williams College. By Rev. Calvin Durfee. 8vo.

The Romance of Trade. By H. R. F. Bourne. 16mo.

Tennyson's Poems (a complete volume). 12mo.

Harper's Descriptive List of Publications. Compiled by
C. A. Durfee. 1888. 8vo.

Catalogue of the Mercantile Library, New York, 8vo.
5 vols. in all.

H. E. MESSINGER, Manchester.

"The Civil War in Song and Story." 1860-65. Ar-
ranged by Frank Moore, Esq., New York. 8vo.

HARRY CLIFTON, Manchester.

"The Curse of the Century." By Henry M. Hunt. 1889.
12mo.

Sparks from the Camp Fire. Compiled by Lieut. Charles S
Green. 1889. 12mo.

"The Veterans' Advocate" for the year 1890. Folio.

CHARLES F. LIVINGSTON, Esq., Manchester.

"The Unity and University." 1888-89. 4to.

The Printer's Circular. Vol. 24. 1889-90. 4to.

WOMAN'S CHRISTIAN TEMPERANCE UNION.

"The Medical Temperance Journal" for the year 1890.
12mo.

EXECUTIVE COMMITTEE.

"The Nation's Birthday." A souvenir volume of the Cen-
tennial Celebration of Washington's Inauguration at Chi-
ago, April, 1889. 4to.

ADOLPH LENE, Secretary.

Fourth annual report of the Ohio State Forestry Bureau.
For the year 1888. 8vo.

S. C. GOULD, Esq., Manchester.

"Notes and Queries" for the year 1890. 8vo.

Constitution and By-Laws of the Boston Theosophical So-
ciety. 1889. Pamphlet.

G. C. GILMORE, Manchester.

Report of the Joint Special Committee of the Bunker Hill Monument. May, 1889. Pamphlet.

Report upon the Bronze Tablets in memory of the Soldiers killed at Bunker Hill, June, 1775. Placed in Winthrop Square, June, 1889. Pamphlet.

TRUSTEES AND HON. SECRETARY.

Report of the O'Connell Monument Committee. By Rev. John Canon O'Hanton, P. P. Sec., Dublin, Ireland. Pamphlet.

IVISON, BLAKEMAN & Co., New York.

The Story of the Invention of the Steel Pen. By Henry Bore. London. 16mo.

JOSEPH M. BROWN, Atlanta, Ga.

The Mountain Campaigns in Georgia; or War Scenes on the W. and A. Illustrated. Pamphlet. 4to.

GRAND RAPIDS BOARD OF TRADE.

Grand Rapids as It Is. Published by the Board of Trade. 1890-91. Pamphlet.

H. B. BATTLE.

Report of the North Carolina Agricultural Experiment Station for the year 1888. 8vo.

W. H. JEFFREY, Manchester.

Monographical Paper on Mutual Co-operation. Delivered in New York, October 31, 1890, by W. H. Jeffrey. 8vo.

A. S. BATCHELLOR, Littleton, N. H.

Report of the Committee of the Executive Council to His Excellency Governor Charles H. Sawyer, of New Hampshire. 1887-89. Pamphlet.

OLD RESIDENTS' HISTORICAL ASSOCIATION, Lowell.

Contributions No. 3 of Vol. 4. 1890. Pamphlet.

JUDGE N. P. HUNT.

The Laws of New Hampshire relating to Common Schools. Compiled by N. P. Hunt, Esq. 1886. 12mo.

Annual Report of the County Commissioners of Hillsborough County. 1890. Pamphlet.

N. P. KIDDER, Esq., City Clerk.

Manchester City Documents for the year 1889. 12mo.

JOHN C. FRENCH, Esq., Manchester.

Historical Sketch of Epsom, N. H. By Jonathan Curtis, A. M. 1823. Pamphlet.

AMHERST COLLEGE.

General Catalogue of Amherst College, 1821-1890, and Obituary Record of Graduates, for the year ending June 25, 1890. Two pamphlets.

CORNELL UNIVERSITY, Ithaca, N. Y.

Register of the University, for the years 1889-90 and 1890-91. Two pamphlets.

UNIVERSITY OF PENNSYLVANIA.

Catalogue and Announcement. 1889-90. 12mo.

UNIVERSITY OF CALIFORNIA.

Register of the University, for the year 1889-90. Pamphlet.

W. M. GRISWOLD.

Directory of Writers for the Literary Press. Pamphlet.

TRIBUNE ASSOCIATION, New York.

Tribune Almanac, for 1889. Pamphlet.

THOMAS W. LANE, Chief Engineer.

Annual Report of the Fire Department of Manchester, N. H., for the year 1889. Pamphlet.

HON. H. K. SLAYTON, Manchester, N. H.

Report of the Twentieth Annual Meeting of the Vermont Dairymen's Association. 1890. Pamphlet.

HARVEY L. CURRIER, Manchester.

Annual Reports of the Hillsborough County Commissioners, for the years 1889 and 1890. Two pamphlets.

ISAAC R. SHEPARD, ESQ., Manchester.

Annual Reports of the Directors of the Manchester & Lawrence Railroad, from the year 1866 to 1883 inclusive, excepting 1868. Seventeen pamphlets.

HORACE G. WADLIN, Chief of Bureau of Statistics of Labor in Massachusetts.

The Annual Statistics of Manufactures. 1888. Svo. Five pamphlets, viz. :

Fifth and Seventh National Conventions of the Bureau of Statistics of Labor in the United States. 1887 and 1889. Two pamphlets.

Strikes in Massachusetts. 1830-80. Carroll D. Wright. Comparative Wages, Prices, and Cost of Living. Carroll D. Wright. Influence of Intemperance upon Crime. Carroll D. Wright 3 pamphlets.

BOARD OF TRADE, Manchester.

Historical Sketch of the City of Manchester, N. H. : Its Rapid Rise and Material Development ; Its Healthfulness, Industries, etc. Compiled September, 1890.

UNKNOWN.

" Buddha's Dhammapada, or Path of Virtue." By J. P. C. Pamphlet.

Costa Rica and Her Future. By Paul Biolley, Professor in the College at San José, Cal. Pamphlet.

Relations between the Central Pacific Railroad Company and the United States Government ; Summary of Facts. 1889. Pamphlet.

Dennison Board of Trade. Glimpses of Dennison, Texas, in Photographs. Pamphlet.

REPORTS OF LIBRARIANS AND BOARDS OF TRUSTEES.

Boston, Mass. Classified Illustrated Catalogue of the Library Bureau. Svo. Decimal, Classified, and Relative Index. Pamphlet. Catalogue of the Bibliographies of Special Subjects in the Boston City Library, by J. L. Whitney. Svo.

- Bulletins of Volume 8 completed. 1887-89. 8vo. Bulletin No. 1, Vol. 9.
- Brooklyn, N. Y. Thirty-Second Annual Report of the Public Library, year ending March, 1890. Bulletin No. 28 of books added during the year 1890. Pamphlets. Catalogue of Pratt Institute. 1890-91. 4to.
- Baltimore, Md. Twenty-third Annual Report of the Peabody Institute. June, 1890. Pamphlet.
- Brookline, Mass. Thirty-third Annual Report of the Public Library. 1889. Pamphlet.
- Birmingham, Eng. Twenty-eighth Annual Report of the Free Libraries' Committee, for the year 1889. Pamphlet.
- Cambridge, Mass. Annual Report for the year 1889. Pamphlet.
- Chicago, Ill. Seventeenth Annual Report of the Public Library. June, 1890. Catalogue of English Prose Fiction. Finding-List of History and Biography. Bulletins of accessions to the library from December, 1887, to October, 1889. Nine pamphlets. Proceedings of the Trustees and Librarian's Report of the Newberry Library, for the year 1889. Pamphlet.
- Cincinnati, O. Annual Report of the Public Library, for the year 1889. Pamphlet.
- Cleveland, O. Twenty-first Annual Report, for the year 1889. Pamphlet.
- Detroit, Mich. Ninth Report of the Library Commission, for 1889. Pamphlet.
- Fall River, Mass. Annual Report of the Public Library. 1889. Pamphlet.
- Grand Rapids, Mich. Annual Report of the Public School Library, from September 1, 1889, to August 31, 1890. Pamphlet.
- Germantown, Phila. Report of the Friends' Free Library and Reading-room, for the year 1889. Pamphlet.
- Indianapolis, Ind. Finding List of Biography, History, and Travels, belonging to the Public Library. 1890.
- Lowell, Mass. Annual Report of the City Library. 1889. Pamphlet.

- Lawrence, Mass. Eighteenth Annual Report of the Free Public Library. 1889. Pamphlet. Bulletins of books added to the library from January to October, 1890. Three pamphlets.
- Lynn, Mass. Twenty-seventh Annual Report, for the year 1889. Pamphlet.
- Los Angeles, Cal. Annual Report of the Public Library, for the year 1889. Pamphlet.
- Minneapolis, Minn. "The Public Library of Minneapolis, Described and Illustrated." Quarto. "Finding-Lists of English Fiction" and "Books for the Young." 1890. Svo. Bulletin No. 1 "Handbook of the Public Library and School of Fine Arts." 1889-90. Five Pamphlets.
- Malden, Mass. Twelfth Annual Report, for the year 1889. Pamphlet.
- Melrose, Mass. Report of the Public Library, for the year 1889. Pamphlet.
- Milwaukee, Wis. Twelfth Annual Report of the Public Library. October, 1889. Pamphlet.
- Manchester, Eng. Twenty-seventh and twenty-eighth annual reports of the Free Public Libraries, 1888-89 and 1889-90. Two pamphlets.
- New York. Annual report of the Maimonides Library for the year 1889. Pamphlet.
- New Haven, Conn. Third and fourth annual reports of the Free Public Library, 1889 and 1890. Two pamphlets.
- Newton, Mass. Annual report of the Newton Free Library for the year 1889. Pamphlet.
- Philadelphia. Seventieth annual report of the Apprentice's Library for year ending April, 1890. Pamphlet. Bulletins of Library Company for January and September. Nos. 24 and 25. 1890. Report of the Board of Directors, May, 1890. Four pamphlets.
- Peabody, Mass. Thirty-eighth report of the Peabody Institute, 1889-90. Pamphlet.
- Providence, R. I. Twelfth annual report of the Providence Public Library. 1889. Pamphlet.

- Peoria, Ill. Rules and by-laws of the Public Library, revised March, 1890. Pamphlet.
- San Francisco. Thirty-seventh annual report of the Mercantile Library Association for the year 1889. Pamphlet. Report of the Free Library for the year ending June 30, 1890. Pamphlet.
- Salem, Mass. Address of John M. Raymond at the opening of the Salem Free Library, June 26, 1889. Pamphlet. First report of the Trustees of the Salem Free Library, December, 1889. Pamphlet.
- St. Louis, Mo. Annual report of the Public Library for the year 1888-89. Pamphlet.
- Springfield, Mass. Annual report of the City Library Association for the year ending May 6, 1890. Pamphlet.
- Worcester, Mass. Thirteenth annual report of the Worcester Free Library, 1889. Pamphlet.
- Wilmington, Del. Thirty-third annual report of the Wilmington Institute for the year 1890. Pamphlet.
- Woburn, Mass. Thirty-third report of the Public Library, 1889. Pamphlet.
- Windham, N. H. Annual report of the Nesmith Free Library. 1889. Pamphlet.

FROM THE SEVERAL PUBLISHERS.

- “Good Health.” A Journal of Hygiene. From the Sanitarium Health and Temperance Society, Battle Creek, Mich. For 1890. 4to.
- “The Manifesto.” Published in Shaker Village, Canterbury, N. H. For the year 1890. 8vo.
- “American Sentinel.” Pacific Press Association, Oakland, Cal. For 1890. Folio.
- “Weekly Oregonian.” Published by L. Samuel, Esq., Portland, Oregon. For 1890. Folio.
- “West Shore.” From the Oregon Immigration Board, Portland, Oregon. For 1890. 4to.
- “Denver Times.” Published by the Times Company, Denver, Col. For 1890. Folio.

- “The Voice.” A Temperance Journal. Published by Funk and Wagnalls, New York City. For 1890. Folio.
- “Lawrence Anzeiger.” Published at Lawrence, Mass. For 1890. Folio.
- “The Practical Mechanic.” F. S. Blanchard & Co., Worcester, Mass. 1890. Folio.
- “Plymouth Record.” Record Publishing Company, Plymouth, N. H. 1890. Folio.
- “Weirs Times.” From M. N. Calvert, Weirs, N. H. For the summer months of 1890. Folio.
- “New Hampshire Catholic.” Charles A. O’Connor, Esq., publisher. Manchester. 1890. Folio.
- “The Weekly Budget.” Frank H. Challis, publisher. Manchester. For 1889. (A bound copy.) Folio.
- “The Daily Press.” Daily Press Publishing Company, Manchester, N. H. For 1890. Folio.
- “American Young Folks.” A monthly magazine. G. Waldo Brown, publisher. Manchester, N. H. For the year 1890. 4to.
- “Saturday Telegram.” William M. Kendall, publisher, Manchester, N. H. 1890. Folio.
- “Santa Monica Outlook.” L. T. Fisher, publisher. Santa Monica, Los Angeles, Cal. 1890. Folio.
- “City Library.” Published by the City Library Association, Springfield, Mass. Vol. 3. 1890. 4to.
- “The Traveler’s Record.” Published by the Travelers’ Insurance Co., Hartford, Conn. 1890. 4to.
- “L’Avenir Canadien.” E. R. Dufresne, proprietaire, Manchester, N. H. For 1890. Folio.
- “Le Fidele Messenger.” Journal Mensuel. Thomas A. Dorian, proprietaire, Manchester, N. H. For 1890. 4to.
- “High School Echo.” Published by the senior class of the Manchester High School. Vol. 1. 1890. 4to.

UNITED STATES GOVERNMENT.

STATE DEPARTMENT.

Consular Reports, Vols. 30, 31, and 32. Nos. 117 to 120 inclusive, of Vol. 33. 1890.

- Bureau of Statistics. Special reports, 1, 3, 4, and 5. 1890.
 Index to Consular Reports. From Vol. 18 to 31 inclusive.
 1886-1889.
- United States Official Catalogue of the Exhibit of Paris
 Universal Exposition. 1889. 16mo.
- Reports and Recommendations of the International American
 Conference. William E. Curtis, executive officer.
 1890. 8vo.
- Minutes of the International American Conference. 1890.
 4to.
- Third annual report of the Interstate Commerce Commis-
 sioner, Hon. W. G. Veazey. 1889. 8vo.

TREASURY DEPARTMENT.

- Annual reports of the Comptroller of the Currency for the
 years 1889 and 1890. Two vols. 8vo.
- Annual reports of the Director of the Mint upon the produc-
 tion of the Precious Metals. For the years 1889 and
 1890. Two vols. 8vo.
- Report of the Secretary of the Treasury on the Finances of
 the United States for 1889. 8vo.
- Bulletins Nos. 14 to 18 inclusive of the United States Coast
 and Geodetic Survey. 1889.
- “A permanent National Bank Circulation” — An inter-
 view between the Committee on Banking and John J.
 Knox of the National Bank, New York. 1890.

INTERIOR DEPARTMENT.

- Official Gazette of the United States Pension Office for the
 year 1890. Four vols. 8vo.
- Annual report of the Commissioner of Pensions for the year
 ending June 30, 1890. 8vo.
- Report of the receipt, distribution, and sale of Public Docu-
 ments on behalf of the Government. 1887-88.
- Special Report on Public Libraries. Pt. 2. Rules for a
 Dictionary Catalogue. By Charles A. Cutter, Boston.

BUREAU OF EDUCATION.

- Circulars of Information Nos. 2 and 3. 1889. Nos. 1, 2, and 3. 1890.
- Contributions to American Educational History, edited by H. B. Adams. Nos. 7, 8, and 9.
- Bulletin No. 1, 1889. Indian Education, by General T. J. Morgan, Commissioner.
- Bulletin No. 1, 1890. Honorary Degrees Conferred in American Colleges. Charles F. Smith.
- Report of the Commissioner of Education. 1887-88. 8vo.
- Report of Factory System of the United States. By Carroll D. Wright, Special Agent. 1884. 4to.
- United States Postal Guide for January 1890, and July supplement. By Hon. W. B. Cooley, chief clerk of Post-office Department. 12mo.

SMITHSONIAN INSTITUTION.

- Contributions to Knowledge. Vol. 26. 1890. 4to.
- Report of the Smithsonian Institution for the year 1887. 2 vols. 8vo.

WAR DEPARTMENT.

Chief Signal Officer, U. S. A.

- Contour Map of the United States, showing the River and Lake Systems. Locations of the Meteorological Stations of the Signal Service. Folio.
- Tri-Daily chart of Meteorological Observations for the month of October, 1878. (To complete the volume.)

AGRICULTURAL DEPARTMENT.

From Hon. J. M. Rusk, Secretary.

- Bulletin No. 4, Forestry Division. Report on the Substitution of Metal for Wood in Railroad Ties. By E. E. Russell. 1890. 8vo.

UNITED STATES CONGRESS.

- Seventy-two volumes of Public Documents of the Forty-ninth and Fiftieth Congresses, belonging to the regular set.

REPORTS
OF THE
COMMITTEES ON CEMETERIES.

R E P O R T
OF THE
TRUSTEES OF CEMETERIES.

VALLEY CEMETERY.

The Sub-Trustees of the Valley Cemetery respectfully submit the following report for the year 1890 :

During the year many improvements have been made. Stone gutters have been made ; the water pipes have been extended five hundred feet, sewer pipes about one hundred feet ; the stone bottom and edges of the brook have been extended, and the usual amount of graveling of the avenues has been done. Monuments have been erected on the S. N. Bell, J. C. Tasker, Joseph Peabody, J. S. Shannon, Walter Neal, Mrs. Schaefer, J. N. Sanborn, and Piper lots. Material used in improvements as follows :

1,184	loads of sand.
171	“ loam.
110	“ gravel.
20	“ stone.
1,520	feet of turf.
200	“ 2-inch water pipe.
100	“ 1 $\frac{1}{4}$ -inch water pipe.
200	“ 1-inch water pipe.
100	“ sewer pipe.

RECEIPTS.

Balance January 1, 1890	\$70.45	
Appropriation	1,500.00	
	<hr/>	\$1,570.45
Tomb fees	\$203.00	
Graves and removals	209.25	
Care and water	650.00	
Grass and wood sold	17.00	
Labor and materials	220.75	
	<hr/>	1,300.00
		<hr/>
		\$2,870.45

EXPENDITURES.

Paid C. H. G. Foss, superintendent . . .	\$719.25
C. W. Noyes, labor	91.87
C. H. Griffin, labor	327.17
James Barrett, labor	270.65
J. Bilodeau, labor	170.78
F. Sullivan, labor	5.63
S. McCuen, labor	50.17
M. Kelley, labor	44.00
Luther Leavitt, labor	173.25
F. L. Mead, labor	6.00
Samuel Neal	7.33
Campbell & Williams, printing . . .	1.25
Dist. No. 2, sand, loam, etc.	142.38
George Piper, team, sand, etc.	144.42
Killey & Wadleigh, hardware	25.81
Temple & Farrington Co., book, etc. .	4.34
Timothy Carr, loam	7.00
C. H. Hutchinson, repairing fence . .	2.83
Geo. Whitford, sand	67.00
C. H. G. Foss, cash paid for plants . .	7.12
John Francis, plants and labor	81.87
J. B. Varick Co., hardware and phosphate	47.02

Paid Peter Woodman, loam and turf	\$46.50	
C. C. Webster, turf	7.98	
T. A. Lane, pipe	80.93	
Pike & Heald, pipe	53.12	
G. W. Dodge, rubber boots	2.50	
J. B. Abbott, painting	7.68	
Palmer & Garmon, repairing stoves	5.60	
Pettee & Adams, cement . . . . .	.75	
F. X. Chenette, sand, team, etc.	25.65	
F. G. Riddle, printing	1.75	
Manchester Water-works	35.55	
M. L. Aldrich, boxes, etc.	16.80	
Head & Dowst, sand and gravel	57.41	
C. H. Chase, trees	4.00	
B. F. Bascomb, team, sand, and turf	26.00	
Manchester Hardware Co., hardware	2.00	
F. W. Blood, loam	18.50	
	<u> </u>	\$2,789.86
Balance		80.59
		<u> </u>
		\$2,870.45

The committee have been very much pleased with the manner in which Superintendent Foss has performed his duties, and consider the city fortunate in having so faithful a man in this position.

FRANK A. LANE,
 BUSHROD W. HILL,
 JOHN M. KENDALL,
 N. P. HUNT,
 WALTER H. WRIGHT,
Sub-Trustees of the Valley Cemetery.

PINE GROVE CEMETERY.

The Sub-Trustees of the Pine Grove Cemetery submit the following report of work done for the year ending December 31, 1890 :

Much has been done the past year for the general improvement of the cemetery. Fifty maple shade trees have been set out. A new fountain has been put on Willow Avenue to accommodate lot owners on Hillside lawn and the east side of the cemetery. The underbrush has been cut on the Straw lot, and granite bounds set, thereby permanently establishing the boundary lines of this lot.

AVENUES.

Two new avenues have been laid out and graded, one on the west side and one on the south side of the Swedish lawn. All the avenues have received attention with top-dressing and gravel, 950 loads of the latter having been used for that purpose the past season.

LOAM AND MUCK.

As has been stated in former reports of the sub-trustees, without a liberal supply of these indispensable articles little can be accomplished toward making and maintaining sward. Five hundred loads of muck taken from the Straw lot have been used this season in grading new lots and re-grading old lots.

The superintendent has been able to make satisfactory purchase of a sufficient quantity of loam to meet the demands of the cemetery, which has been used with the muck mentioned above. Besides the muck and loam above mentioned one hundred and fifty-eight loads of clay have been used.

RIVERSIDE LAWN.

The hill in the southwest part of the cemetery, which will hereafter be known as Riverside lawn, although not entirely finished, is one of the most beautiful locations in the cemetery. Work on this section was advanced as far the past season as was possible, and continued in the thorough manner in which it was begun, and the sub-trustees hope to see this lawn completed early the coming summer. After cutting the hill down to a desirable grade, a covering of clay four inches in thickness was put on; next, four inches of muck, taken from the Straw lot, were ap-

plied, and over this four to six inches of rich loam. Clay has been used for several years in different parts of the cemetery with excellent results; not only does a lawn so prepared stand the dry weather much better, but will show the benefit of a dressing of manure after all signs of it have disappeared on a lawn where clay is not used. The lots on Riverside lawn are to be under perpetual care, subject to the same restrictions and regulations as Hillside lawn.

HILLSIDE LAWN.

The lots on this beautiful lawn are being rapidly taken up, and each year adds to its beauty and to the number of magnificent monuments which adorn its graceful slopes.

SWEDISH LAWN.

In 1886, the sub-trustees set aside a plot of ground for the exclusive use of the Swedish society, which, owing to the rapidly increasing number of graves thereon, the sub-trustees have, at the request of the Swedish society, extended. This plot will hereafter be known as the "Swedish Gethsemane Lawn," and adds much to the appearance of this part of the cemetery.

CEMETERY EXTENSION.

At a meeting of the sub-trustees held December 22, it was voted to recommend to the City Councils that the land lying north of the present cemetery, owned by the heirs of Benjamin Mitchell, and containing about sixteen acres, be purchased by the city for cemetery purposes, the sub-trustees having previously gone over the ground, said vote being duly certified by the clerk.

IRON FENCE.

The fence on the Calef road, with the exception of about 200 feet of iron fence built in 1889, is in a deplorable condition. The same is true at the south end and a portion of the north end of the old lot, while the entire Straw lot is without a fence of any kind.

It is the hope of the sub-trustees that the matter may be seriously considered by the city government in their wise apportionment of the city's funds.

SUPERINTENDENT.

The superintendent, Mr. Byron A. Stearns, has given entire satisfaction the past year, and deserves much credit for the faithful manner in which he has discharged his duties as superintendent of the Pine Grove Cemetery.

GEORGE W. BACON,
HENRY P. HUNTER,
CHARLES H. BARTLETT,
JAMES A. WESTON,
JOSEPH L. STEVENS,

Sub-Trustees of the Pine Grove Cemetery.

The sub-trustees append the following statistical tables to their report with the hope that they may be satisfactory to the lot owners, and those who are interested in the prosperity of the Pine Grove Cemetery :

SUPERINTENDENT'S ACCOUNT.		1890.	1889.
Received for advance payments on lots sold		\$551.00	\$495.00
“ “ interments.....		438.00	384.00
“ “ water and care of lots		665.00	481.00
“ “ grading lots.....		547.37	384.98
“ “ loam sold		7.00	59.00
“ “ clay sold		10.00	6.34
“ “ wood sold		60.44	.....
“ “ removal of bodies.....		61.56	65.00
Total receipts		\$2,340.87	\$1,875.32
Deduct minor expenses.....		6.50	1.84
Paid city treasurer.....		\$2,334.37	\$1,873.48
MISCELLANEOUS.		1890.	1889.
Number of lots re-graded.....		38	24
“ of monuments erected.....		28	21
Lots sold on Hillside lawn.....		14	9
“ unsold on Hillside lawn.....		30	44
“ sold with lawn restrictions		31	38
“ unsold with lawn restrictions.....		20	44
Ordinary lots sold.....		21	16
“ “ unsold.....		25	17
Lots sold on Riverside lawn.....		2	.....
“ unsold on Riverside lawn		60	.....
Total number of lots sold.....		68	63
Number of interments.....		228	199
“ “ “ on public ground.....		67	47
Whole number buried on public ground.....		1,129	1,062

RECEIPTS.	1890.	1889.
Balance on hand January 1.....	\$548.59	\$3,533.21
Appropriation.....	1,000.00	1,000.00
Advance payments on lots sold.....	551.00	495.00
Sale of lots by treasurer.....	2,600.00	.....
John B. Varick's overdraft.....	.....	.96
Balance of superintendent's receipts.....	1,789.87	1,378.48
Totals.....	\$6,489.46	\$7,752.18

CURRENT EXPENSES.	1890.	1889.
Salary of superintendent.....	\$730 00	8730.00
Labor and teaming.....	2,851.19	3,485.88
Materials and tools.....	168.70	234.58
Printing and stationery.....	20.48	45.93
Flowers and shrubs.....	61.54	64.80
Water rates.....	300.00	300.00
Telephone.....	48.25	49.50
Coal.....	74.48	24.75
Paint for iron fence and castings.....	.....	19.53
Totals.....	\$4,254.64	\$4,954.97

PERMANENT IMPROVEMENT.	1890.	1889.
Water extension.....	.....	\$509.11
Sewerage extension.....	.....	104.84
Loam and turf.....	\$542.75	680.12
Clay.....	158.00	453.00
Castings for gates.....	.....	13.30
Iron fence.....	.....	492.00
Granite posts for bounds.....	.....	26.25
Markers for graves on public ground.....	47.15	.....
Maple shade trees.....	15.00	.....
Totals.....	\$762 90	\$2,248.62

SUMMARY.

Balance January 1, 1890, and appropriation	\$1,548.59	
Receipts from cemetery during the year	4,940.87	
Total receipts		\$6,489.46
Expenditures for the year 1890	\$5,017.54	
Amount transferred to reserve fund	654.22	
Balance on hand December 31, 1890	300.20	
Total		\$5,971.96

TREASURER'S REPORT.

To the Trustees of Cemeteries :

GENTLEMEN, — I herewith present to you my annual report of the money received by me during the year ending December 31, 1890 :

PINE GROVE CEMETERY.

Number of deeds delivered during the year 1890, sixty-four.

To cash received for the same	\$2,707.06	
interest	1.80	
cash received from superintendent	1,783.37	
	_____	\$4,492.23
By superintendent's receipt	\$1,783.37	
treasurer's receipts	2,600.00	
cash on hand	108.86	
	_____	\$4,492.23

VALLEY CEMETERY.

To cash received from superintendent	\$1,300.00	
By superintendent's receipt	1,300.00	

I have in my possession thirty-four deeds ready for delivery, some of which have been standing for a long time and probably never will be taken, and the only way to dispose of such is to remove the bodies buried in the lots and sell the lots to other parties. In some of these cases I am sure the contract never will be completed by the original purchaser.

All money received by me has been turned into the city treasury ; for which I have the proper vouchers from the city clerk.

Most respectfully submitted.

SYLVANUS B. PUTNAM,

Treasurer of Trustees of Cemeteries.

MANCHESTER, N. H., January, 1891.

I hereby certify that I have examined the accounts of Sylvanus B. Putnam, treasurer of the trustees of cemeteries, and find the same correct and properly vouched for.

JAMES B. STRAW,

City Auditor.

REPORT
OF THE
TRUSTEES OF THE CEMETERY FUND.

To the City Councils of the City of Manchester :

GENTLEMEN, — The Trustees of the Cemetery Fund have the honor to present herewith their eleventh annual report, embracing the report of the treasurer, which shows the financial operations for the year ending December 31, 1890, and the condition of the fund at the present time.

Your trustees are pleased to say that gradual improvements are being made upon the lots placed in their care, and in some cases quite satisfactory progress has been made in laying the foundation for beautifying and adorning these grounds, as provided in the ordinance under the act and in accordance with the desires of the donors of this fund.

The owners of lots on Landscape Lawn have commenced, at their own expense, the environment of this beautiful plot with a substantial border of granite, which, when completed, will enhance its general appearance and be of practical utility in guarding the ground against the encroachments of vehicles and injury from other causes.

It is the aim of the trustees to do all that the means at their command will allow to carry out the wishes of the proprietors of endowed lots, and they will be glad to receive suggestions from

parties interested, in order that the trust may be executed in the most satisfactory and faithful manner.

Respectfully submitted.

D. B. VARNEY, *Mayor*,
P. C. CHENEY,
JAMES A. WESTON,
Trustees of Cemetery Fund.

January 1, 1891.

TREASURER'S REPORT.

To the Trustees of the Cemetery Fund:

GENTLEMEN, — I herewith transmit to you the eighth annual report of the funds received and the expenses paid to December 31, 1890.

PINE GROVE CEMETERY.

Amount of permanent fund on hand as		
per last report	\$7,662.82	
Received during the year from :		
Estate of Cyrus W. Wallace	155.00	
John Hosley	160.00	
Chas. W. Eager	97.80	
Henry A. Bailey	100.00	
Henry H. Huse	101.40	
Mrs. J. G. Sturgis	135.05	
Frank M. Gerrish	344.00	
Chas. H. Bartlett	209.84	
John D. Bean and L. K. Mead	344.00	
Asa W. Davis	181.12	
Amos, Edson S., and Walter S. Heath	151.18	
Wm. Bailey	134.48	
Henry D. Soule	160.00	
Estate of Ruth L. Waterman	109.02	
	<hr style="width: 100%;"/>	
Total permanent fund		\$10,045.71
Income on hand as per last report	\$363.53	
Income received since last report	395.00	
	<hr style="width: 100%;"/>	
Total income		\$758.53

Expenses paid as follows :

B. A. Stearns	\$4.15	
S. A. Blood	35.17	
E. T. James	13.25	
J. B. Varick Co.	16.30	
Thomas Johnson	8.00	
Marden & Woodbury	25.00	
Pine Grove Cemetery, care of lots	189.00	
	<hr/>	
Total expenses		\$290.87
Cash on hand		467.66
		<hr/>
		\$758.53

VALLEY CEMETERY.

Amount of permanent fund on hand as per last report	\$3,250.00	
Received during the year from :		
Estate of James A. McEvoy	100.00	
Estate of Elvira H. Brewer	100.00	
	<hr/>	
Total amount of permanent fund		\$3,450.00
Income on hand as per last report	\$231.91	
Income received since last report	162.50	
	<hr/>	
Total		\$394.41
Expenses paid as follows :		
To Valley Cemetery for care of lots	\$69.65	
Cash on hand	324.76	
	<hr/>	
Total		\$394.41

PISCATAQUOG CEMETERY.

Amount of permanent fund on hand as per last report	\$200.00	
	<hr/>	
Total amount of permanent fund		\$200.00

Income on hand as per last report	\$30.00	
Income received since last report	10.00	
	<hr/>	\$40.00
Expenses paid as follows :		
Gilman Riddle	\$28.75	
Cash on hand	11.25	
	<hr/>	\$40.00

MERRILL CEMETERY.

Amount of permanent fund received since last report :		
From Harriet W. Emerson	\$200.00	
	<hr/>	
Total amount of permanent fund		\$200.00

Most respectfully submitted.

SYLVANUS B. PUTNAM,
Treasurer of Trustees of Cemetery Fund.

This is to certify that I have examined the books of accounts of Sylvanus B. Putnam, treasurer of the trustees of the cemetery fund, embracing the receipts and expenditures for the year ending December 31, 1890, and that I find the same correct and properly vouched.

I have also examined the securities in which said fund is invested, and find as follows :

PINE GROVE CEMETERY.

Bonds of the city of Manchester, N. H.,		
5 per cent, 1913	\$10,000.00	
Cash	45.71	
	<hr/>	\$10,045.71
Amount of permanent fund		10,045.71

VALLEY CEMETERY.

Bonds of the city of Manchester, N. H.,		
5 per cent, 1913	\$3,450.00	
	<u> </u>	
Amount of permanent fund		\$3,450.00

PISCATAQUOG CEMETERY.

Bonds of the city of Manchester, N. H.,		
5 per cent, 1913	\$200.00	
	<u> </u>	
Amount of permanent fund		\$200.00

MERRILL CEMETERY.

Bonds of the city of Manchester, N. H.,		
5 per cent, 1913	\$200.00	
	<u> </u>	
Amount of permanent fund		\$200.00

JAMES B. STRAW,
City Auditor.

REPORT
OF THE
OVERSEERS OF THE POOR.

REPORT
OF THE
OVERSEERS OF THE POOR

To the Mayor, Aldermen, and Common Council of the City of Manchester:

In compliance with the ordinances of said city, the Overseers of the Poor herewith present their annual report for the year 1890.

The whole number of paupers supported at the City Farm during the year has been two.

The whole number of families that have received more or less assistance off the farm during the year has been forty, consisting of one hundred persons, all of whom have a settlement in this city. Six of this number died during the year.

The whole number of persons supported at the State Industrial School during the year has been three, at a cost of one dollar and fifty cents per week for each person.

The whole number of persons supported at the County Farm during the year has been one, at a cost of two dollars per week.

The whole number of persons supported at the Asylum for the Insane has been one, at a cost of four dollars per week.

The whole number of persons supported at the Insane Asylum under control of the State Board of Commissioners of Lunacy, under chapter 18, Laws of 1889, June session, has been three, without cost to this city.

The Overseers of the Poor have given and allowed three hundred and seventy-six orders to paupers off the farm during the

year, consisting chiefly of groceries, fuel, medicine, board, clothing, and for emergencies.

The amount allowed to the several wards is as follows:

Ward 2	\$24.58	
Ward 3	135.90	
Ward 4	226.40	
Ward 5	923.86	
Ward 6	250.00	
Ward 7	6.35	
Ward 8	315.88	
	<hr/>	\$1,882.97
Bills allowed for emergency cases		2,518.60
		<hr/>
		\$4,401.57
Cash received from county		2,201.57
		<hr/>
Total cost allowed		\$2,200.00

Cost over appropriation allowed, \$200.

All of which is respectfully submitted.

WILLIAM H. MAXWELL, Ward 1, *Clerk.*

THOMAS L. QUIMBY, Ward 2.

BENJAMIN F. GARLAND.

GEORGE S. HOLMES.

THOMAS H. MAHONEY.

CHARLES FRANCIS.

DAVID W. ANDERSON.

HORATIO FRADD.

A true copy.

WILLIAM H. MAXWELL,

Clerk of the Board of Overseers of the Poor.

To the Mayor, Aldermen, and Common Council of the City of Manchester:

In compliance with chapter 81, sections 1 and 2, Laws, State of New Hampshire, passed at the June session, 1889, the Over-

seers of the Poor herewith present their annual report under the head of "Aid to Dependent Soldiers and their Families."

The whole number of families of indigent soldiers who have received more or less aid during the year has been twelve, consisting of thirty-two persons, at a cost of seven hundred ninety-five dollars and twenty-five cents.

All of which is respectfully submitted.

WILLIAM H. MAXWELL, Ward 1, *Clerk.*

THOMAS L. QUIMBY, Ward 2.

BENJAMIN F. GARLAND, Ward 3.

GEORGE S. HOLMES, Ward 4.

THOMAS H. MAHONEY, Ward 5.

CHARLES FRANCIS, Ward 6.

DAVID W. ANDERSON, Ward 7.

HORATIO FRADD, Ward 8.

A true copy.

WILLIAM H. MAXWELL,

Clerk of the Board of Overseers of the Poor.

REPORT
OF THE
JOINT STANDING COMMITTEE ON
CITY FARM.

R E P O R T
 OF THE
 JOINT STANDING COMMITTEE ON CITY
 FARM.

To the City Councils of the City of Manchester :

GENTLEMEN, — The Mayor and Joint Standing Committee on the City Farm hereby submit their annual report for the year ending December 31, 1890.

The following is the inventory and appraisal of the personal property of the City Farm made December 31, 1890.

Live-stock	\$1,705.00
Wagons, carts, and team furnishings	963.50
Farm implements	1,284.55
Hay, grain, and produce	2,952.40
Household furniture	2,117.14
Provisions and fuel	1,116.81
	\$10,139.40
Total	

Statement of accounts for the year 1890 :

Total cash paid out	\$7,467.20
Interest	1,000.00
	\$8,467.20
Total receipts of farm	2,432.75
	\$6,034.45

Bills receivable	\$190.76
	<hr/>
Permanent improvements	\$5,843.69
	300.20
	<hr/>
	\$5,543.49
Increase in stock	189.08
	<hr/>
	\$5,354.41

Total number of weeks' board furnished, 2,200 $\frac{5}{7}$.

Average cost of board for each individual per week, \$2.43.

Total cash paid city treasurer, \$2,432.75.

There was raised on the farm last season :

Corn	613 bushels.
Turnips	547 "
Onions	45 "
Beets	120 "
Mangold beets	253 "
Carrots	158 "
Beans	30 "
Potatoes	1,231 "
Cabbage	8,035 pounds.
Squash	2,800 "
Hay	100 tons.
Pork	5,482 pounds.
Beef	2,844 "

The potatoes were all sold early in the season instead of being kept for use, as they showed signs of rotting badly, and the superintendent thought best to dispose of them, which he was obliged to do at a very low price.

The stock remains in full as good condition as one year ago. Early in the spring the committee thought it advisable to dispose of the oxen, which they did and replaced them with a pair of horses.

The general appearance of the farm has been much improved by the removal of old walls, hedges, clearing brush, etc.

Mr. Streeter as superintendent, ably assisted by Mrs. Streeter as matron, have met the full expectations of the committee, and they heartily approve of their management.

D. B. VARNEY, *Mayor*,
JAMES F. BALDWIN,
WILLIAM P. FARMER,
THOMAS P. RILEY,
GEORGE C. CHASE,

Joint Standing Committee on City Farm.



REPORT
OF THE
CITY SOLICITOR.

REPORT OF CITY SOLICITOR.

To the Mayor, Aldermen, and Common Council of the City of Manchester :

GENTLEMEN, — The City Solicitor hereby submits the following report for the year 1890 :

Of the cases pending in court in which the city of Manchester was a party at the beginning of the year, the following, Clara Moore *vs.* Manchester, Mary Kildea *vs.* Manchester, Margaret Kelly *vs.* Manchester, and Sarah B. Bean *vs.* Manchester, were tried by the jury at the March term of the Supreme Court for Hillsborough county, all being for damages for personal injuries while traveling on highways ; the trials resulted in verdicts for the plaintiffs, in each case for much less than the amount sued for. For the amounts paid by the city on the verdicts in the Kildea and Kelley cases, suit has been brought against the owners of the buildings in front of which the injuries were received, who are responsible for the obstructions in the highway which caused the accidents. The cases of Florence O'Leary *vs.* Manchester, for damages for personal injuries ; of Jacob B. Mooar *vs.* Manchester, for land damages by changing the grade of a street ; of Manchester *vs.* the Western Union Telegraph Company, to recover the verdict in the Sykes case ; and of Manchester *vs.* Manchester Shoe M'fg Company, to recover expense of cleaning their vault under direction of the health officers, were all adjusted out of court, in a manner, in the judgment of the solicitor, beneficial to the city. Luther Hall *vs.* Manchester for land damages in laying out East Spruce street was tried by the county commissioners, and he was awarded a much smaller sum than he claimed.

In the petition of P. C. Cheney Co. and others for a new highway from Amory street to the Mast road in Manchester, which was on trial at the beginning of the year before the county commissioners, the petitioners withdrew, before the city had put in its side of the case. The other cases on the docket January 1, viz., those of Emeline C. Call, Augusta A. Currin, Maria Colby, T. S. Colby, and Worthley Brothers, all for damages for injuries received on highways ; of Caroline S. Head and others for damages to land by water flowing on it from the highway ; and of Rebecca C. Newton for land damages by changing the grade of Webster street, are still pending in court and in order for some disposition at the coming term of the Supreme Court.

During the year new suits have been entered in the Supreme Court for Hillsborough county and now stand on the docket as follows :

AT THE MARCH TERM :

LOUIS LAVENTURE vs. MANCHESTER.

A suit for \$7,000 for damages for personal injuries occasioned by a telephone pole falling on the plaintiff in Hanover back street, October 15, 1889. The New England Telegraph and Telephone Company have been summoned to appear and take care of the case.

WM. M. PARSONS vs. MANCHESTER.

A suit for \$15,000 damages for personal injuries occasioned by being thrown from his carriage in Beech back street, September 25, 1889. F. H. Auger and wife have been summoned to appear and defend the case, as they are responsible for any defect which may have existed in the road.

MARGARET GOLDEN vs. MANCHESTER.

A suit for \$5,000 for personal injuries received by falling on Merrimack street, November 15, 1889. John H. Maynard, who occasioned whatever obstruction there was in the street, if any, has been summoned to defend the action, and agrees to hold the city harmless therefrom.

LEE BIG *vs.* MANCHESTER.

In this action the plaintiff sues for \$5,000, for personal injuries occasioned by falling on Elm street, December 29, 1889.

FREDERICK E. SCHEER *vs.* MANCHESTER.

This plaintiff alleges that on February 27, 1888, he fell on Walker street and broke his leg, and sues for \$5,000.

HANNAH RYAN *vs.* MANCHESTER.

This suit is brought to recover damages for injuries alleged to have been received by falling, owing to the slippery condition of Lake avenue, February 17, 1889.

The *appeal* of Campbell & Maxwell from the judgment of the committee of appraisers as to the value of a horse killed by order of the mayor and aldermen as having glanders.

The *petition* of P. C. Cheney and others for a new highway from Amoskeag Village to the Mast road in Goffstown.

AT THE SEPTEMBER TERM :

EDWIN BRANCH *vs.* MANCHESTER.

A suit to recover \$7,000, for injuries alleged to have been received by falling on Pearl street, July 22, 1890.

EDWIN R. WHITNEY *vs.* MANCHESTER.

In which the plaintiff claims \$15,000 for injuries which he says were caused by the icy condition of North street, March 19, 1890.

December 29, 1890, under direction of the Mayor and Aldermen, the solicitor brought suits against ex-City Marshal M. J. Jenkins, and his bondsmen, W. B. Patten, H. B. Sawyer, and C. E. York, to recover the amount of money unpaid by said Jenkins, according to the result of the examination of his accounts by the city auditor.

This covers the cases now in court in which the city is a party. There seems to be an idea somewhat prevalent that the looking after cases in the Supreme Court is about all the solicitor has to do. As a matter of fact, that portion of his duties, though very important, forms but a small part of his labors. In performing them, in the actual trial of causes, the solicitor has had assistance in some of the cases of other counsel. It is impossible, almost, and in important cases very rarely attempted, for one man to try a difficult cause alone; but in the performance of other numerous labors of his office, the solicitor has worked unaided. These duties cover nearly every day in the year. What with attending Police Court and trying every variety of criminal cause, advising the mayor and other officials in the line of their duties, investigating claims, attending committee meetings and meetings of the aldermen, drawing all sorts of documents which the city needs, drafting ordinances and performing many other duties, the office of solicitor is no sinecure. The present incumbent has given the city his best endeavor, and appreciates the manner in which his efforts have been received by the City Councils of 1889-90. He would publicly express his thanks to you all, and for the favors and courtesies shown him by the various officials with whom his duties have brought him in contact, he is deeply grateful.

Respectfully submitted.

EDWIN F. JONES,
City Solicitor.

REPORT OF THE MILK INSPECTOR.

REPORT OF MILK INSPECTOR.

To His Honor the Mayor and Board of Aldermen of the City of Manchester :

I herewith submit a report for the year 1890.

The milk brought into the city from the suburbs and surrounding towns was sampled by stationing myself on the different roads leading into the city, and afterwards samples of that being delivered were compared with that taken from the full loads as originally brought in, which conclusively showed me in each case whether the milk delivered would stand the same test as that of the load before any delivery had been made.

To give an idea of the amount of business on some of the roads entering the city it may be well to state that there are 38 well loaded wagons which enter the city by South Main street, eight by the way of Amoskeag, and from that number down to one or two on other roads. The larger part of the milk supply of the city comes from the towns of Dunbarton, Goffstown, and Bedford, the town of Bedford furnishing a much larger quantity than any other town; yet within the city limits a much larger amount is raised than is generally supposed.

The milk supply was not affected by severe droughts or scarcity of feed, as has often been the case in previous years, and in fact the supply was so good that at times many milk raisers were unable to dispose of all they raised, daily, especially when pasturage was at its best.

During the month of October tuberculosis was found to be badly developed in the Industrial School herd of cows, and steps were at once taken to ascertain whether other herds in that vicinity were suffering from the same disease. As the Industrial School herd furnished no milk supplied to the city, I did not

make a specialty of examining the milk from that herd, but I at once visited all other herds in that locality, and all in the northern section of the city, from which a portion of our milk supply is obtained, and took samples from the different herds, which I took particular pains to mark, that the cow from which the sample was obtained might be easily identified in the future, should any of the animals be condemned by the veterinary surgeons, as I took all of my samples direct from these different herds before any examination had been made by a veterinary surgeon, except at the Industrial School. The next thing to do was to obtain the use of a powerful microscope. As none was owned by the city, and on account of the cost of such an instrument it was not deemed advisable to purchase one for this particular occasion, therefore, by permission of the mayor, I employed Dr. J. Frank Robinson to prepare these samples for examination, especially for the detection of bacilli, or germs of tuberculosis, and 19 samples were thus examined very thoroughly, and nothing could be found, and a portion of these samples I examined with him, and on the following day, a part of these herds were examined by a veterinary surgeon; three cows were condemned and slaughtered, in only one of which traces of tuberculosis were found. From two of the slaughtered cows I had taken samples of milk. It was afterwards reported that symptoms of the disease had again been found in one of the herds, and I again visited the herd and procured two samples in which nothing was found, and an examination by veterinary surgeons on the following day proved the report groundless.

These examinations were of much benefit, inasmuch as they establish beyond a doubt that the trouble arising from this source was of much smaller consequence than was at first supposed, although it established beyond doubt that tuberculosis existed among cattle in our vicinity, but not to any extent among herds from which the milk supply of the city had been obtained, and again, it was the means of causing all herds to be examined by expert veterinary surgeons and cards of health were given to each owner, thereby allaying any fears consumers might have regarding their milk supply.

At first it seemed a serious affair, and one which was very liable to contaminate the whole community with tuberculosis, and at the same time almost wholly obliterate the milk traffic, besides entailing a severe loss upon the farmers and milkmen, but the appearance of the disease will be an incentive to each milk raiser to keep his herd in a healthy condition, and it will cause every milkman to be more careful of the source of his supply.

One hundred and four licenses have been given out and duly recorded, amounting to \$52. There have not been as many store licenses given out as during some previous years, owing to fewer changes in firms handling milk, and fewer new firms commencing business who cared to sell milk. There is a growing tendency to consolidation among the milkmen, and a few routes have been purchased and consolidated with others during the year. One route already has six teams, and another has five, while a few have two teams each. There are 87 regular routes, and the number of quarts of new milk delivered daily 15,311, and 1,192 quarts of skimmed milk are delivered daily. Estimated number of cows to produce the daily supply of milk for the city, 2,347. The average daily consumption of milk has increased during the year, as have also small routes of from two to six cans capacity. The sale of skimmed milk is confined to five routes.

I have collected 155 samples, which I have carefully tested, and have analyzed 35 samples, none of which have been found below the standard required by law. I have examined many samples for private parties, at one time going to an adjoining town for the purpose, although outside the limits of my jurisdiction, and have at all times held myself in readiness to respond to any call, whether for the general public or for parties requiring private tests or analysis, and during the year I have had but four complaints, which were on account of milk souring in hot weather, as many of our citizens did not take ice on account of the cost being more than in previous seasons.

In my visits to the herds within the city limits I have found the farmers very courteous and untiring in their efforts to assist me in any way in the performance of my duty, and the store-

keepers and milkmen, whose patience no doubt I sometimes taxed in the strict performance of duty, and which seemed perhaps unnecessarily often to them, have invariably treated me in a gentlemanly manner, both by day and by night.

Very respectfully,

H. F. W. LITTLE,

Milk Inspector.

REPORT OF THE CITY MARSHAL.

REPORT OF THE CITY MARSHAL.

CITY MARSHAL'S OFFICE,
MANCHESTER, N. H., February 23, 1891.

To the Honorable Mayor and Board of Aldermen :

GENTLEMEN, — I have the honor to submit to you my annual report of the Police Department for the year ending December 31, 1890, showing the strength and condition of the force, and reviewing briefly the service performed by it during the year.

POLICE ORGANIZATION.

The police force of Manchester at the date of making this report consists of thirty-six men, organized with rank and title as follows, viz :

City Marshal, Horatio W. Longa.
Deputy Marshal, John F. Cassidy.
Captain, Lafayette Tebbetts.
Sergeant, Michael J. Healey.

Day Patrol.

Randall W. Bean.	John T. O'Dowd.
Edgar Farrar.	Florence Sullivan.
Ira P. Fellows.	Bartlett N. Wilson.
Edwin A. Hutchins.	

Night Patrol.

Francois E. Bourassa.	Benjamin F. Lake.
Henry A. Burns.	George A. Lovejoy.
William M. Caldwell.	Andrew J. Mayhew.

George W. Cheney.	Samuel L. Mitchell.
John C. Colburn.	John T. O'Malley.
Norbert Decoteau.	Francis Renville.
James F. Dunn.	Philip Richer.
Edward C. Emerson.	Olof Ring.
Merrill Farmer.	Gilbert A. Sackett.
George E. Flanders.	Timothy P. Shea.
Jonathan E. Floyd.	Charles W. Stevens.
Lowell O. Fowler.	George E. Varnum.
Edward H. Holmes.	

SUMMARY OF THE WORK ACCOMPLISHED BY THE DEPARTMENT.

Fines and costs, \$5,773.31.

Assault, 180; aggravated assault, 4; assault on officer, 23; adultery, 2; attempt to rescue prisoner, 1; burglary, 23; breaking glass, 8; common drunkard, 1; drunk, 1,230; disorderly conduct, 8; defacing buildings, 2; disorderly house, 3; exposure of person, 2; embezzlement, 1; fornication, 25; fast driving, 12; keeping liquor for sale, 158; keeping open Sunday, 10; keeping dog without license, 31; larceny from the person, 6; larceny, 112; manslaughter, 1; malicious mischief, 3; noise and brawl, 20; obscene and profane language, 1; attempt at rape, 3; running away from house of correction, 6; stealing a ride, 7; selling liquor, 2; stubborn child, 1; throwing stones, 1; throwing snow-balls, 3; vagabond, 3.

The cases were disposed of as follows:

Paid fine imposed, 556; committed to house of correction, 808; committed to house of correction on sentence, 48; committed to jail for non-payment of fine, 120; nol-prossed, 31; committed to reform school, 4; bound over to Supreme Court, 140; committed to jail — bail not furnished, 51; committed to Wilton, 21; sentence suspended, 30; appealed, 15; discharged, 48; whole number of arrests, 2,599; females, 396; on file, 80.

Admitted for lodging, 1,293; accidents reported, 14; assisted out of town officers, 24; buildings found open and secured, 435; cases investigated, 310; cases of cruelty to animals investigated, 8; defective streets and sidewalks reported, 30; disturbances

suppressed, 468; dogs killed, 112; dogs lost and found, 22; dangerous dogs reported, 64; fires discovered and reported, 7; fires extinguished without an alarm, 19; injured and sick persons assisted, 55; intoxicated persons taken home, 155; lights extinguished in buildings, 70; lights furnished for dangerous places, 83; lost children restored to their parents, 108; stolen property recovered, \$2,499.66; nuisances abated, 56; search warrants for liquor, none found, 11; search warrants for stolen goods served, 3; stray teams put up, 79; street obstructions removed, 145.

A large amount of business is required of and performed by the police that does not appear on the records, in attending to complaints and in the general exercise of care and watchfulness over the property and personal well-being of the citizens.

An officer of the police department is supposed to be a well-stored encyclopedia of information on all matters and things transpiring or existing in the city, and is called upon to remedy all troubles of whatever nature that occur.

The last year has been one of unusual quiet as regards crime. No serious disturbances or outbreaks have occurred during the year.

Special pains has been taken to render the fire department every assistance to protect life and property. Both have worked harmoniously together and the very best feeling exists between the two departments.

A large number of cases reported, which demanded investigation requiring considerable labor on the part of the officers, are of such character that they cannot be presented in form or summarized.

The members of the department have, with a few exceptions, performed their duties in a satisfactory manner. My desire has been that the force might reach a high standard of excellence, and I point with some pride to the fact that of the higher crimes committed, the offenders were arrested and found guilty. This is gratifying and must show to the citizens of Manchester that the officers are zealous in the discharge of their duties.

I have made an effort to conduct the department on a basis of

economy as well as efficiency. As a result, a very large saving has been made.

DISCIPLINE.

The conduct of the officers in the department has been good. Only one case has been brought before the Board, and that was not considered of sufficient importance to merit removal or reprimand.

I am satisfied with the department, that they intend to discharge their duties with fidelity and zeal, and the discretion exercised by them in dealing with the varied interests with which they are officially brought in contact and the lack of complaint of official misconduct are the best testimonials to the efficiency and sobriety of the force.

We have assisted officers from other places in numerous cases, and have also received valuable assistance and favors from officers in our neighboring cities, for which we are extremely grateful.

TRAMPS AND LODGERS.

The whole number of persons applying for and furnished with lodgings has been 1,293.

The poor and unfortunate we have always with us.

Many who apply for lodging at the police station are truly unfortunate, but the greater number are what have come to be known as "tramps." They are a nuisance. They have no abiding place, and live upon the mistaken charity of any one who gives them either food or clothing.

POLICE MATRON.

This department has been looked after very carefully and efficiently by the present matron, Miss A. B. Brown, who reports daily and attends to such duties at the police station as are in her line of duty. Miss Brown also investigates such cases of young girls as are liable to fall into habits of vice and immorality as are called to her attention.

The police business from its very nature is liable to make enemies for the officer who discharges duty faithfully, for in the enforcement of the city ordinances, and in the execution of crimi-

nal law, it is not strange that frequently he should run against the sharp corners of men and test the individual peculiarities of their nature; for rarely is a person arrested who has not sympathizing friends ready to believe that the officer has exceeded his authority.

A policeman should be civil and courteous at all times and so conduct himself as to possess the moral support of law-abiding citizens, but he who is everybody's friend is usually better adapted to other occupations than for this peculiar work. It requires time, experience, and study, before a police officer becomes thoroughly acquainted with the duties of this office.

In closing my report, I would remember His Honor, the retiring Mayor, whose counsel and assistance in the duties pertaining to this office have been of great value, the members of the honorable City Council for their confidence and co-operation, and the rank and file of this department who have so ably assisted me, and tender to each and all my hearty thanks for these favors so generously bestowed, with the assurance that during the coming year I shall continue to perform the duties without partiality, and to the best of my knowledge and ability. I also extend my heartfelt thanks to Solicitor Jones, Judge Hunt, and Police Clerk Bickford, for their kind words of encouragement; and for the members of the police department I have only words of praise for the manner in which they have performed their duties during the past fiscal year.

Respectfully submitted.

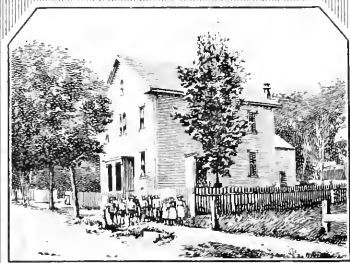
H. W. LONGA,
City Marshal.

REPORT
OF THE
SCHOOL COMMITTEE.

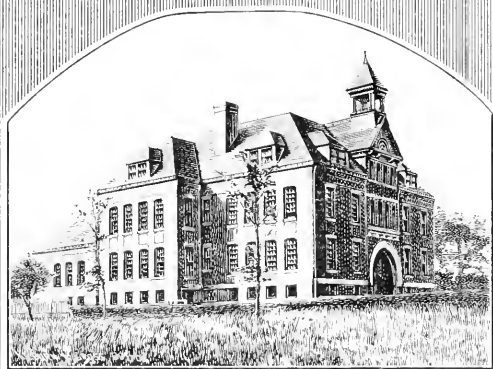




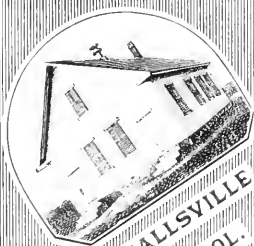
17. SOUTH MAIN ST. SCHOOL.



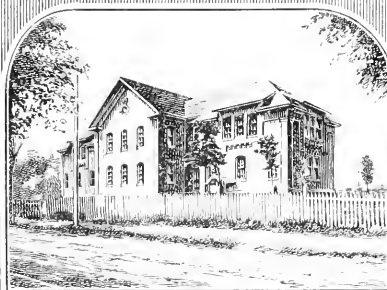
16. SCHOOL STREET SCHOOL.



20. YARNEY SCHOOL. W. M.



7. HALLSVILLE
SCHOOL.



12. MAIN ST. SCHOOL. W. M.



23. WILSON HILL
SCHOOL.

SCHOOL DEPARTMENT.

ORGANIZATION FOR 1890.

SCHOOL COMMITTEE.

DAVID B. VARNEY, *ex officio* Chairman.

JOHN F. FROST, President of the Common Council.

BENJAMIN C. DEAN, Vice-chairman of the Board.

JAMES E. DODGE, Clerk of the Board.

Ward 1. — Charles H. Manning.
John L. Sanborn.

Ward 2. — Benjamin C. Dean.
William C. Clarke.

Ward 3. — Nathan P. Hunt.
James E. Dodge.

Ward 4. — Frederick C. Crosby.
S. B. Stearns.

Ward 5. — John F. Cahill.
James P. Slattery.

Ward 6. — Charles G. Dodge.
Frank T. E. Richardson

Ward 7. — Edward B. Woodbury
Marshall P. Hall.

Ward 8. — Luther C. Baldwin.
William K. Robbins.

SUPERINTENDENT OF PUBLIC INSTRUCTION.

WILLIAM E. BUCK.

TRUANT OFFICER.

SAMUEL BROOKS.

STANDING COMMITTEES.

Finance. — The Mayor, Messrs. J. E. Dodge, Slattery, Stearns, Frost.

Salaries. — Messrs. Woodbury, Hall, Robbins.

Repairs, Furniture, and Supplies. — Messrs. Manning, Sanborn, Charles G. Dodge.

Text-books, Apparatus, and Studies. — Messrs. Dean, Hunt, W. C. Clarke.

Drawing. — Messrs. Hall, Baldwin, Richardson.

Music. — Messrs. Richardson, W. C. Clarke, Crosby.

Fuel and Heating. — Mr. J. E. Dodge, the Mayor, Messrs. Manning, Frost, C. G. Dodge.

Examination of Teachers. — Messrs. Hunt, Dean, Stearns.

Attendance. — Messrs. Baldwin, Woodbury, Crosby.

Health. — Messrs. Robbins, Cahill, Sanborn.

SUB-COMMITTEES.

High School. — Messrs. Manning, Dean, Hall, Hunt, Stearns.

Ash and Bridge Streets. — Messrs. Dean, Hunt, W. C. Clarke.

Lincoln Street. — Messrs. Stearns, Woodbury, Richardson.

Spring Street and Lowell Street. — Messrs. Hall, Manning, Sanborn.

Franklin Street. — Messrs. Woodbury, J. E. Dodge, Sanborn.

Training School and Wilson Hill. — Messrs. Hunt, Dean, J. E. Dodge.

West Manchester Grammar. — Messrs. Baldwin, Stearns, C. G. Dodge.

School Street and South Main Street. — Messrs. Robbins, Slattery, Baldwin.

Webster Street, Blodget Street, Amoskeag, and Stark District.

— Messrs. W. C. Clarke, Robbins, Slattery.

Bakersville. — Messrs. C. G. Dodge, Hall, Woodbury.

Hallsville and Youngsville. — Messrs. Crosby, C. G. Dodge, Cahill.

Mosquito Pond and Webster's Mills. — Messrs. Cahill, Robbins, Slattery.

Goffe's Falls and Harvey District. — Messrs. J. E. Dodge, Baldwin, Crosby.

Evening Schools. — Messrs. Richardson, Manning, W. C. Clarke.

IN BOARD OF SCHOOL COMMITTEE.

December 31, 1890.

The Superintendent presented his annual report to the committee, and it was accepted.

Charles H. Manning presented the annual report prepared by him at the request of the Board.

Resolved, That the report by Mr. Manning be accepted and adopted as the report of the Board, and that it be transmitted to the City Councils, together with the report of the Superintendent, for publication in the annual City Report.

JAMES E. DODGE, *Clerk*.

REPORT OF THE SCHOOL COMMITTEE.

To the City Councils :

The school committee respectfully present the following report for the year ending December 31, 1890, it being their final report and the forty-fourth in the annual series.

In the Appendix will be found, in a tabulated form, all the usual statistics covered by this report.

Though the total enrollment of pupils for the year shows but a slight increase over that of last year, the general condition and usefulness of the schools we believe has improved, and with the now increased accommodation in West Manchester we expect a considerable increase in the enrollment in that quarter, and the same would be true with increased accommodation east of Elm street, where nearly every house is overcrowded.

Commencing at the North End, the Webster-street house, in the midst of one of the most rapidly growing sections of the city, has already five schools in four rooms, the upper east room having been temporarily partitioned off into two rooms, neither of which affords proper light or ventilation. Immediate provision should be made for the addition of at least two rooms on the south side.

Blodget-street house is full, but we do not consider the enlargement of that building advisable.

The Ash-street house is overcrowded and a temporary room has been divided off from the hall in the third story, until the building can be relieved by the erection of a four-room building on the Bridge-street lot, and this also should be done at once.

The High School needs an addition of four recitation rooms, which would allow the two rooms on the west of the assembly

to be added to that room, making of it a fairly lighted one of sufficient size for the present needs of the school. As at present arranged, the assembly room is dark, gloomy, and poorly ventilated.

Under the new recitation rooms should be a gymnasium and drill hall for the use of both girls and boys.

A much better scheme would be to build a new high-school house on a suitable lot nearer the center of the city and use the present high-school house instead of erecting a new building on the Bridge-street lot.

The Training School, comfortably filled during the fall and winter terms, is generally overcrowded during the spring.

Lincoln-street house and Wilson Hill are full to overflowing, but a new six-room schoolhouse at Hallsville, taken with the proposed changes north, would obviate this.

A new house at Hallsville is the most imperative need of all and a lot should at once be procured and the building commenced in the spring.

The ill-advised sale of the Beech-street house of course is partly to blame for the overcrowded condition of the schools in this quarter.

We congratulate you on the completion of the new Varney school house in West Manchester, which gives ample accommodations for some years to come in that quarter, and, while there is nothing unnecessary or extravagant about it, we believe it to be one of the most perfect houses in the New England States.

This year will be the last of mixed courses in the High School, as the class which graduates in June is the last that entered before the adoption of the present courses. This will simplify matters somewhat, and though the courses are yet far from perfection we think all the changes have been for the better.

The growing needs of the school require the services of another teacher, as some of the classes are much too large to receive proper attention in the time allowed.

The master of the school should have at least one hour a day during the session to devote to visiting the other recitation rooms,

that his influence may be felt throughout the school, but with the present force this is impossible.

The new free text-book law has added much work to the teachers' duties here as elsewhere.

The scholarship, discipline, and attendance at this school never were better than they are to-day, notwithstanding disorders that have occurred out of school hours.

In the grammar schools there have been no changes of note and they, as well as all the lower grades, have been maintained in a high state of efficiency.

Among the teachers we have lost by death is Miss Rocilla M. Tuson from the High School, one of the ablest and most conscientious teachers the school has ever had. Death has also removed Miss Etta J. Carley, of the Amoskeag school, an able teacher of many years' experience and usefulness.

Other changes in the *personnel* of the teaching force will be more fully noted in the report of our able superintendent of schools, to whose untiring energy and good judgment is largely due the success of our unusually able corps of teachers.

To the Training School is due the fact that a large part of our force is home talent, and we are confident that this school was never doing better work than at present.

The evening drawing school, which has been a marked success from its beginning, is doing better work than ever, the classes being full and the attendance excellent. There is no money expended by the city for education that shows more direct and satisfactory returns for the expenditure.

The condition of the school buildings is fair, but the limited means at the disposal of the Board (about two per cent on the value of the houses) allows very little for improvement.

During the last summer vacation, besides the ordinary repairs, the Youngsville house was reshingled, replastered, and new floors laid, brick vaults built for the outhouses, and the entire building painted inside and out. At the Webster-street house, the Smead system of dry closets was introduced at a cost of about fourteen hundred dollars, and it is a great improvement over the former arrangement. During the next summer, a steam heating system

should be placed in the Bakersville house, at present heated by two hot-air furnaces which are insufficient and cost more to repair every year than all the steam plants in the other houses.

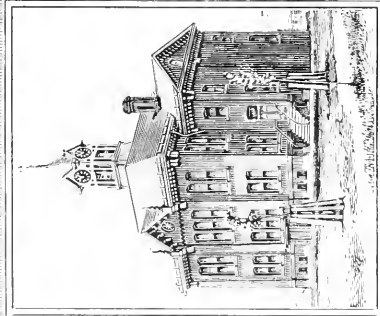
The steam heating at the Ash-street house is insufficient to allow any ventilation in very cold weather. During the coming summer the boilers should be repaired and the radiating surface in most of the rooms increased.

The free text-book law has been a source of considerable more expense this year than it will be again, as the renewal and addition will be much less than the first cost of starting the system. It has hardly been in operation here long enough to pronounce judgment as to its real merits, but as far as our experience goes we are well pleased with it, as it is the final step in making the schools *free* in fact as well as in name.

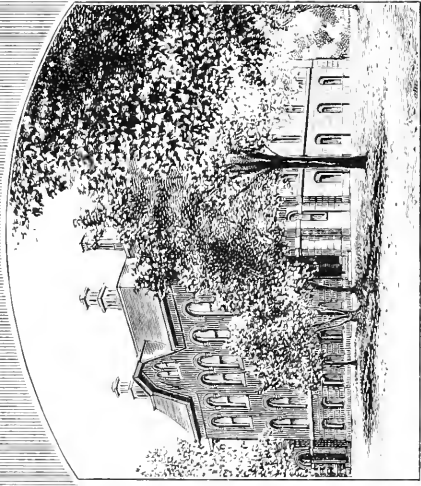
If any one doubts the utility of a truant officer, a perusal of the appended report of that official should be convincing. Of the whole number of 375 absentees reported to him, there were but three cases where the delinquent was not found or accounted for.

In conclusion, we would thank you, gentlemen of the Councils, for the prompt and kind consideration received by all matters we have brought before you.

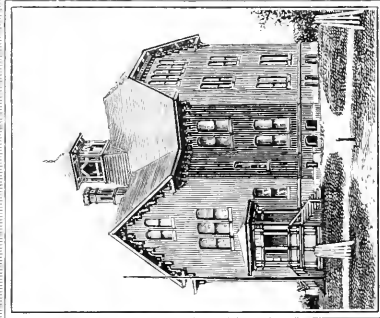
CHARLES H. MANNING,
For the Committee.



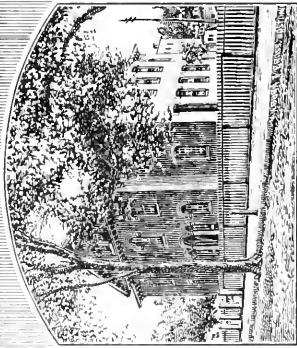
22. WEBSTER ST. SCHOOL.



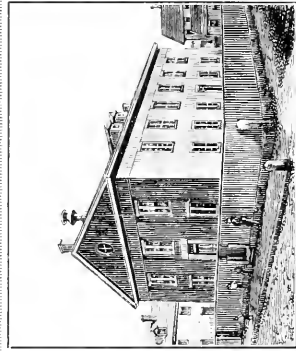
8. HIGH SCHOOL.



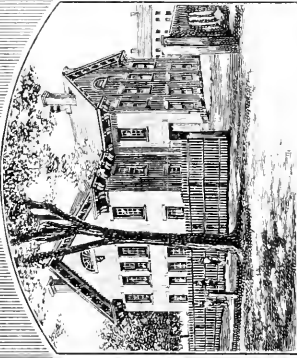
3. BAKERSVILLE SCHOOL.



5. FRANKLIN STREET SCHOOL.



15. PARK STREET SCHOOL.



18. SPRING STREET SCHOOL.

SUPERINTENDENT'S REPORT.

To the Manchester School Board :

GENTLEMEN,— I present the following as the Annual Report of the Superintendent of Public Instruction for the year 1890 :

ORGANIZATION OF THE SCHOOLS.

Throughout the year six teachers have been employed in the High School, twenty-one in the grammar schools, and sixteen in the middle schools. There have been twenty-six primary schools, taught by twenty-three teachers. This is accounted for from the fact that the principal of the Training School, who for convenience is reckoned among the middle-school teachers, has charge of three primary schools where no regular teachers are employed. There have also been two partially graded schools* employing three teachers, and six ungraded schools † with one teacher for each.

The organization of the city schools for 1890 has therefore been equivalent to seventy-seven distinct schools of a single room each, taught by an average of seventy-five teachers. The number of schools and of teachers is respectively the same as the number of each last year ; for the gain this year was offset by the discontinuance of the Beech-street school at the end of the second term in 1889.

ATTENDANCE.

The number of pupils in attendance upon the public day schools this year is greater by 27 than for last year, while the average number belonging is less than for last year by 6, and the

* The upper room at Amoskeag and the Hallsville school.

† Country suburban.

average attendance is less by 45. To understand so unusual a record, it is necessary to give the latter items by terms.

	<i>Av. No. Belonging.</i>	<i>Av. Daily Attendance.</i>
Winter Term, 1889, . . .	2,818	2,588
“ “ 1890, . . .	2,607	2,305
Spring “ 1889, . . .	2,821	2,590
“ “ 1890, . . .	2,791	2,581
Fall “ 1889, . . .	2,764	2,565
“ “ 1890, . . .	2,987	2,722

From the foregoing figures it is readily seen that though the averages for the fall term make the showing about 200 better for 1890, the absences during the spring and more especially during the winter cause the items under comparison to make the record in the aggregate appear slightly to a disadvantage for 1890. These excessive absences occurred when *la grippe* was rampant throughout our community, and it is justly chargeable with the apparently inconsistent record for the present year.

It is difficult yet to tell to what extent the increase of about 200 during the fall term of this year over any term of last year is attributable to the introduction of free text-books ; for other reasons than their use have quite as often been given for more largely patronizing the public schools.

The following tabular arrangement will show the comparative rate of tardinesses for four years, including the present year :

Average Tardinesses on Average Attendance, per Pupil.

SCHOOLS.	1887.	1888.	1889.	1890.
High school.....	4.6	4.0	4.8	2.8
Grammar schools.....	2.6	2.0	2.0	1.9
Middle schools.....	3.2	3.2	3.1	2.4
Primary schools.....	2.1	2.4	2.8	2.3
Partially graded schools.....	2.9	2.7	4.2	3.4
Ungraded schools.....	4.1	2.7	2.1	1.1

Total tardinesses, 1889, 7,231 ; 1890, 5,755.

There has been a gratifying decrease in every grade.

NEED OF MORE SCHOOLROOMS.

What I said in my report for 1889 in regard to additional schoolrooms and new schoolhouses has proved emphatically true. There is imperative need of a new schoolhouse at Halls-ville, and of additional rooms for the relief of the overcrowded schools in the Ash-street and Lincoln-street buildings.

There should also be more room provided for high-school purposes, and it has been wisely suggested by the chairman of the sub-committee of the High School that a new and properly appointed building be erected for its use.

Upon completion of a new high-school house, the present building could be used for the relief of the Ash-street and Lincoln-street buildings, already overcrowded, and also be used for the accommodation of the rapidly increasing school population in the eastern part of the city.

CHANGES.

The new school building in West Manchester, known as the Varney school, will next term be occupied by the only grammar school on the west side of the Merrimack, and by such pupils of middle school grade as live beyond the Piscataquog river.

By the withdrawal from the Main-street house of the grammar school, and of the other pupils above mentioned, sufficient room will be provided on Main street for the four unduly large and improperly housed schools now at the School-street building, — with opportunity, if deemed advisable, to organize them as five schools.

The rapidly growing needs of this part of the town are such that it will be unwise for the city to dispose of the School-street property, unless a larger lot is immediately secured in a southeasterly direction therefrom. It will be better to sell the Clinton-street engine-house, and use the house on School street for evening schools and a ward room a few years. The old building can then be removed and replaced by a proper structure for primary schools likely to be needed in that locality within five or six years.

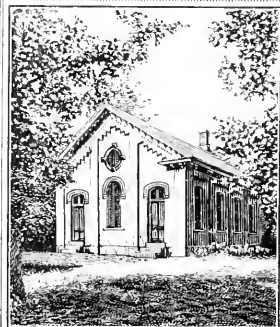
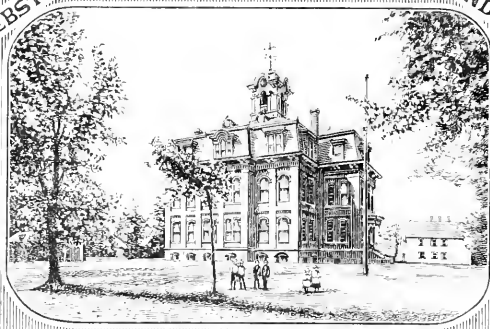
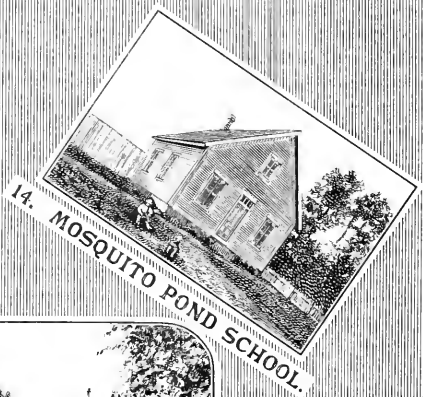
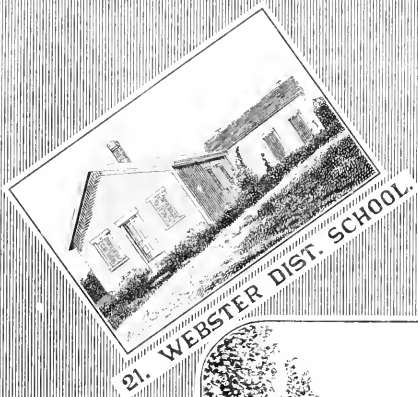
SCHOOLS AND TEACHERS.

The work of the schools is in accord with that agreed upon by the leading educators of our day as best adapted to train the rising generation for the emergencies of immediate citizenship, and for the proper discharge of the general duties of life.

The efforts of superintendent and teachers for the year have therefore been to improve the quality of that work, rather than to make any radical changes in its character. The free text-book law, which became operative in our schools early in the year, provided opportunity for desired changes in text-books, and the superintendent then exerted his influence to secure the best in the market; he also prepared modifications of the course of study necessitated by the changes made; and has endeavored to advise teachers to the best of his ability according to their apparent needs, throughout the year. The teachers have not only heartily co-operated, but of their own volition they have in general taken a deep and abiding interest in the improvements attempted, and have sought from every available source any aid seemingly helpful. The result has been in a good measure satisfactory. Specialists who have been among us do not find the work of our schools to suffer in the lines of their work, when compared with the efforts of others in similar grades whose work they have inspected or directed; and it is designed that the work in all its lines shall be so done that it may at every point be found entitled to similar approbation when duly inspected.

The High School stands at the head of our public school system, and the present efficiency of its organization and the excellence of its work are commensurate with its normal position. This school has been greatly improved since the organization of the present board of school committee; and you, gentlemen, may take just pride that your efforts have produced a school that must well satisfy its patrons.

While all the schools have profited at your hands, it may be proper to mention the Webster-street schools and the schools at Hallsville and Youngsville as especially improved, — the latter largely in consequence of what has been done by the committee



on repairs of schoolhouses, though the teachers there for the last two terms are exceptionally good, at least for country districts.

The City Training School for Teachers has maintained its usual efficiency throughout the year, and continued to do excellent work. This school is a highly important factor in our system, and it has particularly well fulfilled its mission during the administration of your Board.

The Lincoln-street and Ash-street schools have from their organization occupied a leading position in our system of schools, and they are still largest and as important and successful as any. The overcrowded condition in the lower grades at Ash street has already resulted in forcing one of the grammar divisions to the third floor of the building, and similar conditions will prevail in the Lincoln-street district as early as the opening of the spring term. Moreover, unless relief is soon afforded the schools in these two districts, the large halls in the Ash-street and Lincoln-street buildings will have to be subdivided into school rooms and pupils be required to mount thereto.

The whole number of different teachers employed one term or more in the day schools, for the year 1890, has been eighty-six. Their respective positions may be learned from the "Attendance Table" in the Appendix (Pages C, D, E, and F); but the various changes made within the year can be more readily understood by an inspection of the arrangement showing "Changes in the Corps of Teachers." (Appendix, page K.)

Eight teachers have left the schools during the year by resignation, two * by expiration of term of service, and one has died. The ten teachers' positions thus made vacant were duly filled by transfers and the election of new teachers, two males and eight females; of these, one half (or five) are graduates of our city schools and three of the five of the Training School. Each of these five has shown good results; and, likewise, most of the others, who came from out of town. At least four of those withdrawn from our schools during the year were as good as the best, and of these none was better than Miss Rocilla M. Tuson, who suddenly died June 3, 1890.

* Both at Youngville.

OBITUARIES.

I here submit a most just and sincere tribute to the memory of Miss Tuson, uttered on the day of her death by Col. B. C. Dean, vice-chairman of your board, as the result of a newspaper interview.

“The sudden death of Miss Rocilla M. Tuson, of our high school corps of teachers, is a crushing blow to her family and friends, and casts a deep gloom over the hearts of all who are interested in the cause of education in our city.

An acquaintance with her and with her school work of some twelve years, covering her service in both the grammar and high schools, convinces me that the latter has met with an almost irreparable loss. Miss Tuson had no superior among our teachers as a disciplinarian or as an instructor. Thoroughly equipped for all work she undertook to perform, and always ready and willing to take upon herself any additional labor called for by committee or principal of the school, she invariably carried to the discharge of her duties a strong mind, well trained, intelligent methods, and a bright, cheerful, and winning manner which never failed to win the love of her pupils, and the hearty respect and esteem of all her associates. She was a thoroughly conscientious, true, and noble woman, pure in mind, upright in life, and devoted to and enthusiastic in her work. She fully deserved the success which ever attended her efforts, and merits the highest commendations possible to bestow. In every way her death is a serious blow to high-school work, and her place can hardly be filled.”

The following resolutions were also offered on behalf of the high-school sub-committee by Marshall P. Hall, at the special meeting of your Board in June, and unanimously adopted by the Board.

In view of the recent death of Miss Rocilla M. Tuson, an instructor in the High School, it is

Resolved by the Board of School Committee, That we greatly deplore the loss of a teacher whose work was of inestimable value, and whose purity of character and noble devotion to duty have called forth unwonted expressions of love and respect, both private and public, in this community.

Resolved, That we hold in admiration the record of her life, which has given another and most beautiful expression to our conception of a true teacher—faithful, patient, and earnest, loving the task of teaching for the sake of those she taught.

“Nor reaping for self the harvest sown.”

Resolved, That the clerk transmit a copy of these resolutions to the family of the deceased teacher, and tender therewith the personal regard and sympathy of the members of this Board.

Miss Etta J. Carley was but nominally in the employ of the Board at the time of her death, February 14, 1890. It was only, however, on account of loss of health that she, last year, closed active duties as a teacher. Miss Carley was a product of our schools. For several years she rendered exceptionally satisfactory service as a teacher. Though in a difficult position, by her cheerfulness, energy, and tact, she invariably had a school that was a credit to herself and highly profitable to her pupils.

At the regular meeting of the School Board in April, Mr. Wm. C. Clarke offered the following, which was unanimously adopted :

WHEREAS, It has pleased the All-wise Father to remove Miss Etta J. Carley to her heavenly home,

Resolved, that in her death we sincerely mourn for the loss of an unusually faithful, energetic, and efficient teacher, whose work has ever been held in high appreciation by this Board; and that we hereby extend to her relatives and friends our profound sympathy in the days of their sorrow for one so worthily beloved.

CLOSING SCHOOL IN BAD WEATHER.

The following are present regulations in regard to closing the schools by aid of the fire-alarm signals :

The bells of the city fire-alarm will signal to close the schools when in the judgment of the superintendent the severity of the weather or very bad traveling may seem to require it, as follows :

To close the primary and middle schools, two strokes with fifteen seconds between them.

To close all the schools, two immediate strokes and after a lapse of fifteen seconds two more immediate strokes.

The times of striking the bells for closing the schools are, —

1. For no forenoon session, at 8.05 A. M.
2. For no afternoon session, at 11.30 A. M., or at 1.15 P. M.

Whenever the four signals are given at 11.30 to dispense with the afternoon session, the primary, middle, and grammar schools will be dismissed for the day at 11.45, and the high school at 1 o'clock.

Janitors are directed not to ring the school bells on any half-day for which the four signals may be given for closing all the schools.

Teachers should keep their pupils informed in regard to the foregoing regulations, and suggest to them that they listen for signals at the times named, whenever the weather and traveling are very bad.

If at any time pupils should appear at a school through failure to hear or understand attempted signals for closing the schools in bad weather, teachers who may be present are directed to care for pupils as their interests most demand, and not thoughtlessly turn them back before they have opportunity to get rested or dry. If a session be held, other pupils who fail to attend are not to be marked absent.

The authority thus delegated to the superintendent has been exercised this year rather more frequently than heretofore; because, first, it has seemed to be the wish of the patrons of our schools that their children should be excused from attending in rainy weather, or whenever the ground is very wet. This is especially true of their feelings in regard to younger pupils attending the primary and middle schools. Secondly, the schools have been closed more frequently in the afternoon, especially the lower grades, for the following reasons: It has been observed that parents will not send their children to school afternoons of days when the schools are closed for the forenoon, if there is anything about the weather that can be regarded as an excuse for their detention; and there may as well be no session as to have one but half attended, in any system of graded schools, for the teacher necessarily has to repeat the work under such circumstances. The schools have also been closed some afternoons, not so much because of the severity of the weather as because it had been noticed that pupils in general went home at noon unprotected from rains that had originated after the opening of school in the morning, they having left home without a thought of preparing for bad weather. Experience has shown that under such circumstances no considerable attendance can be secured for the afternoon.

From facts submitted below, it may be seen that the schools have been closed but a few times in the forenoon, comparatively, during the year. The more important and major part of the

work of the schools is done during the forenoon, and it is fortunate that even in bad weather conditions are usually more favorable to the attendance of pupils at school upon that part of the day.

Since the time for striking out the schools for the forenoon was fixed, the opening of the high-school session has been made a half hour earlier (8.15); and, in consequence, the time for signaling out the schools in the forenoon (8.05) has made the arrangement practically useless to the high-school pupils. I therefore recommend that the time for striking out the schools for the forenoon session be changed from 8.05 to 7.45 o'clock A. M.*

All the schools have been closed during the year on account of bad weather but one whole day, no other forenoons, and only four other afternoons. In addition to the foregoing, the primary and middle schools have been closed three whole days, three other forenoons, and two other afternoons.

SCHOOLHOUSE FLAGS.

Among the interesting events of the year, of great prominence and high value, has been the furnishing of our larger schools with the United States flag by the more notable military and civic organizations of our city, and by the munificence of private generosity as follows:

1. The City Training School for Teachers, February 21, 1890, by friends of the school, through subscriptions solicited by the janitor, Mr. Edward P. Cogswell. Mr. Cogswell is a veteran soldier and a member of the G. A. R. He felled the tree for the staff, and chiefly prepared it; he claims the training-school flag was the first to float as a schoolhouse flag in the city, first in the county, and only third in the State.

2. The Franklin-street school, February 21, 1890, by the Canton Ridgely organization — F. A. Taylor, Captain.

3. The Lincoln-street school, March 12, 1890, by the Order of United American Mechanics — J. E. Hall, Councilor.

4. The Webster-street school, March 28, 1890, by the Sons of Veterans — Charles S. Brennan, Captain.

* Recommendation has since been adopted.

5. The Bakersville school, March 28, 1890, by friends of the school — through neighborhood subscriptions raised chiefly by Mr. Edwin N. Baker.

6. The High School, Memorial Day, by the Grand Army of the Republic — John G. Hutchinson, Commander.

7. The Ash-street school, Memorial Day, by Miss Mabel A. Williams, a graduate of the school and daughter of General Charles Williams.

8. The Main-street school, Memorial Day, by the Fire King Company, — active and honorary members, — David G. Mills, foreman. Colonel A. C. Wallace donated the staff, and the presentation exercises were under the direction of the G. A. R.

9. The Varney school, December 24, 1890, by Colonel George W. Riddle.

The public presentations of these flags at the several schools were occasions of great interest and profit, and the abiding and general concern felt by our citizens for the welfare of the public schools was never more manifest or more beautifully expressed.

Lasting good must surely result from the daily display of our nation's flag upon the schoolhouse. It will constantly remind the teacher that the right of the school to exist at the public expense can be maintained only by the development of its pupils into reputable and loyal citizens, who shall be able not only to care for themselves but competent to uphold and propagate the principles of our government. The constant display of the flag before the pupils of our schools, together with the knowledge received in regard to its history and symbolization, must make right and inspiring impressions upon youthful minds and hearts which time cannot efface and the threats of foes would only materialize into acts of successful defense.

FREE TEXT-BOOKS.

The most notable event of the year affecting our schools is doubtless the introduction and supply of free text-books and other supplies to all pupils not previously furnished with needed text-books and other necessary material of their own. The expense of this has been about nine thousand dollars, and the text-

books in the schools previously and still owned by pupils must have cost their parents from three to five thousand dollars more. Their books will gradually go out of use as the owners are advanced from grade to grade and finally leave the schools. To supply the place of these, and keep good the furnishing already provided, will require thirty-five hundred dollars next year, three thousand dollars for each of the two or three years following, and at least twenty-five hundred dollars annually thereafter.

The Committee on Text-books and Studies are entitled to great credit for their devotion of much valuable time, great care, and experienced financial ability, in securing for the city a choice list of text-books upon unusually favorable terms. The purchases of this year are, doubtless, not two thirds of what would have been the cost to parents for the same articles.

The members of this committee, together with the clerk, constitute the entire representation of wards two and three upon this board ; and I feel sure that in expressing my own feelings I but voice those of the board in general, when I say that for long, conscientious, faithful, and highly efficient services in the interests of our public schools, the gentlemen from wards two and three, all of whom are about to retire from the board of school committee, are clearly entitled to the hearty thanks not only of their constituents but also of the entire city.

COURSE OF STUDY.

Owing chiefly to numerous changes of text-books made during the year, it has become necessary to republish the course of study. Occasion has therefore been taken to improve it as much as possible, and for this purpose I have had several recent conferences with teachers of the various grades.

I submit the result as the conclusion of my report, as much that the public may see the outline work of the schools as that teachers may be governed thereby.

Respectfully submitted.

WM. E. BUCK,

Superintendent.

December 24, 1890.

COURSE OF STUDY
FOR THE
PUBLIC SCHOOLS OF THE CITY OF MANCHESTER.

REVISED, 1891.

SPECIAL NOTICE TO MANCHESTER TEACHERS.

Continue to follow the course issued in 1886 in the matter of General Directions, Music, History, and Geography, except for classes I and L in the study of geography, till otherwise directed.

Drawing is to be continued till July, 1891, in accordance with instructions furnished last September.

In other particulars, for which a course of study is purposed, be guided by the following revised form.*

WM. E. BUCK,
Superintendent.

LIST OF TEXT-BOOKS.

ELEMENTARY SCHOOLS.

Readers. — The New Franklin.

Speller. — Harrington's Graded.

Arithmetic. — First Steps in Number, Fish's "Number One," the Franklin Written, and Seaver and Walton's Mental.

* It is designed to have the revised course published in due form for teachers' use, with complete instructions, by the opening of the fall term.

Geography. — Swinton's Introductory and Grammar-School.

Grammar. — Hyde's Practical Lessons and Patterson's Elements.

History. — Barnes's United States; and Higginson's, as a reader.

Penmanship. — Harper's Copy-Books.

Music. — Mason's Charts and Readers.

Drawing. — The American Text-Books of Art Education.

HIGH SCHOOL.

Mathematics. — Arithmetic, Wentworth's, and Crittenden's Commercial; Book-keeping, Meserve's; Algebra and Geometry, Bradbury's and Wentworth's; Trigonometry and Surveying, Wentworth's.

English Language. — Grammar and Composition, Patterson's Advanced; Rhetoric, D. J. Hill's; Studies in English, Swinton's; English Authors, Kellogg's English Literature.

Natural Sciences. — Physiology, Hutchinson's; Physical Geography, Guyot's; Philosophy, Avery's; Chemistry, Remsen's; Botany, Wood's Botanist and Florist; Mineralogy and Geology, Dana's Geological Story; Astronomy, Young's.

Political Science. — Civil Government, Young's Government Class Book; Political Economy, Macvane's.

History. — General, Myer's; English, Montgomery's; Roman, Leighton's; Grecian, Smith's.

French. — Berlitz Method and Duffet's Method; Reader, Super's; Grammar, Worman's and Whitney's.

Latin. — Lesson's, Collar and Daniell's; Grammar, Allen and Greenough's; Cæsar, Cicero, and Virgil, Greenough's; Prose Composition, Jones's and Collar's.

Greek. — Lessons, White's; Grammar, Goodwin's; Anabasis, Goodwin and White's; Homer, Seymour's; Prose Composition, Jones's.

Music. — High School Music Reader, Julius Eichberg's.

Drawing. — The American Text-Books of Art Education.

REPORTS.

The custom in regard to pupils' reports and written reviews is as follows :

Individual report cards (bearing a record of each grammar and high school pupil's attendance, deportment, and scholarship for the school quarter) are forwarded to parents of pupils in the High School at the middle of the fall term and at the close of each term ; to parents of pupils in grammar classes at the end of the first nine weeks after the opening of the fall term, the first of February, at the close of the winter term, and at the close of the spring term.

WRITTEN REVIEWS.*

The written reviews are limited to the three or four weeks immediately preceding the above-named dates : and only one such exercise is designed to be submitted in any one week, except that the test in spelling and one in some other subject may be given the same week. To avoid cramming and any undue nervous excitement, pupils are not to be informed, by intimation or otherwise, of the subject of a contemplated written review before the time of its submission ; nor are pupils to be informed of its occurrence earlier than an hour and a half before the time of the submission, and not until necessary to make apparent the preparations therefor.

 GRADATION.

HIGH SCHOOL. — FOUR COURSES.

An English Course of either 3 or 4 years ; a Scientific Preparatory Course of 3 years ; a Classical Course of 4 years ; a College Preparatory Course of either 4 or 5 years.

* The marking of daily recitations has been left optional with teachers, in the belief that while such marking may be helpful to the attainment of best results by some, a requirement of it might prove a hindrance to the best work of others.

GRAMMAR SCHOOL. — FOUR DIVISIONS.

Divisions first, second, third, and fourth. Classes in each division, two. Time in each division, one year; in each class, five months. The classes in each division do distinct work.

MIDDLE SCHOOL. — TWO GRADES.

Grades are known as "Higher" and "Lower." Classes in each grade, two. Time in each grade, one year; in each class, five months. The classes in each grade do distinct work.

PRIMARY SCHOOL. — TWO GRADES.

Grades are known as "Higher" and "Lower." Classes in each grade, three. Time in each grade, one year and a half; in each class, five months. The classes in each grade do distinct work.

LOWER PRIMARY SCHOOL.

CLASSES P, Q, R.

Time: First Year and a Half; Each Class, Five Months.

CLASS R.

READING AND SPELLING. — During the first few days of the child's attendance at school, the teacher should gain the confidence of the pupil by conversational exercises in regard to familiar objects, — animals, pictures, sports; things perceived by the senses; articles of clothing or furniture; stories, etc.

When confidence has been gained and the pupil becomes free to express his thoughts and feelings, reading from the blackboard should be commenced. Use only script letters. The meaning

of words is first to be taught by the use of objects, pictures, drawings, actions, stories, etc.; then the visible signs (written words) are to be placed upon the board singly or combined in sentences — as the purpose may be best attained; lastly, the oral signs (pronounced words) are to be given. Prepositions, conjunctions, and other unimportant words should be first taught only in sentences. Pupils should never be permitted to read aloud until the meaning is clear to them. Naturalness of expression is thus attained.

The work of this class is first to master, in script, all the words upon the first twenty-five pages of Monroe's Chart, taught from the blackboard and slate according to the method above described; then the printed forms of the same words are to be taught while applied in reading the first twenty-five pages of the chart, in print, from itself. Spare time should be devoted to advanced reading from the chart. (See that the elevation of the chart is sufficient to secure proper position of the head of the pupil when reading.)

Spelling is to be chiefly learned from exercises in "Language," which see. *Let all oral spelling be by sound.*

PENMANSHIP. — Upon slates the letter *i*; also copy-book No. 1 of the Tracing Course, pupils to use well-pointed *slate* pencils.

ARITHMETIC. — Full knowledge of *five* according to the Grube system, taught by use of objects as outlined in the Teacher's Edition of Wentworth and Reed's First Steps in Number. (See especially, for principles of teaching, paragraphs 2, 3, and 4 of the "Introduction," pages 1 and 2; also the last 15 lines on page 4.)

ORAL INSTRUCTION. — Familiar talks in regard to objects around a child's home, as cat, dog, horse, mouse, knife, bureau, clock, apple, potato, sugar, etc.; also objects in the schoolroom. Names of external parts of the human body taught.

LANGUAGE. — Pupils are daily to copy their reading lessons (in script) upon their slates, from the blackboard or chart — as each is used.

The purpose of all written work *in copying* (whether from the blackboard, chart, or book) is to accustom pupils to correct

spelling, capitalization, and punctuation, by unconscious imitation ; also to improve their penmanship.

CLASS Q.

READING AND SPELLING. — Complete the Chart ; read the Chart Primer as far as it is a reproduction of the chart, and as much of Davis's Beginner's Book as time permits. All new words of each lesson should be taught from the blackboard, their meaning being first developed as directed for "Class R." Test the result of the development by requiring pupils to show the proper use of words in sentences of their own invention. Pay particular attention to position of the pupil and the book, *observing suggestions on READING under GENERAL DIRECTIONS*.*

Spelling is to be learned from exercises in both reading and "Language," which see. Oral spelling should be *by sound* except that easy words without silent letters may be spelled by letter as each is pointed out on the chart, since pupils should know the names of all letters of the alphabet *by the close of the first year at school*.

PENMANSHIP. — Upon slates, *i, u, n, m*, in order, only so far as well-nigh perfect forms are attained ; also copy-book No. 1 of the Tracing Course, pupils to use *lead* pencils.

ARITHMETIC. — Full knowledge of *nine*, taught as directed for Class R. This comprises the substance of the entire contents of Part I. (or the first nine chapters) of the Teacher's Edition of First Steps in Number, including, also, the first six lessons in the Pupil's Edition. (The lessons from the Pupil's Edition may be presented individual members of the class by use of the cards which are duplicates of the pages of the Pupil's Edition.)

ORAL INSTRUCTION. — Conversational studies of familiar plants, in their season, — flower, leaf, stem, and root : of prominent qualities of objects, — rough, smooth ; sweet, sour ; brittle, tough ; etc. Names and uses of external parts of human body treated.

* As given on page 7 of the Course issued in 1886.

LANGUAGE. — Pupils are daily to copy upon their slates, in script, what they read.

Purpose, the same as for “ Class R,”

CLASS P.

READING AND SPELLING. — Davis’s Beginner’s Book and the New Franklin First Reader completed, their use being interchangeable; * then as much of Parker’s First Book (or its equivalent) as time permits.

Pupils should often be required to repeat, from memory, the substance of what they read.

Spelling, both by sound and letter, † somewhat extended, words being selected from reading lessons.

(Reading, spelling, and penmanship taught as outlined for previous class.)

PENMANSHIP. — Upon slates, *m*, *x*, *v*, *w*; also copy-book No. 1, of the Tracing Course, pupils to use *lead* pencils.

ARITHMETIC. — Lessons 1 to 44 from the Pupil’s Edition of First Steps in Number; also, in connection therewith, the *oral instruction* intended to be derived from, and given according to, suggestions found upon those pages of the Teacher’s Edition which are indicated in parenthesis at the head of the several lessons above named, as found in the Pupil’s Edition. (The lessons from the Pupil’s Edition may be put before the class as suggested for Class Q.) Roman numerals to X also taught.

ORAL INSTRUCTION. — Further consideration of plants, in their season, — bud, fruit, and seed; consideration of place, — on, above, under; before, behind; left, right, etc. Movements and care of parts of human body treated. Injurious effect of stimulants and narcotics on the human system impressed upon this class, and preceding ones, by simple conversational exercises adapted to the understanding of youngest pupils. Primary colors taught.

LANGUAGE. — Pupils are to copy upon their slates, in script, selected sentences from their reading lessons; and occasionally

* Keep the reading *easy* by using first one book and then the other, changing as frequently as may be necessary therefor.

† By letter *from memory*, but not to a great extent.

the simpler forms of such sentences (those containing only the terminal mark) should be written from dictation. (Form of terminal mark should be period or interrogation point.) Observe use of letters and punctuation.

Stories from pictures required, also the reproduction of stories told pupils. (The picture stories and the reproductions of those told should be both oral and written.)

HIGHER PRIMARY SCHOOL.

CLASSES M, N, O.

Time: Second Year and a Half; Each Class, Five Months.

CLASS O.

READING* AND SPELLING. — The new Franklin Second Reader (only) twice a day, for nine weeks; then the same as far as convenient by use once a day, also once a day (as supplementary) such readers as may be furnished. (Reading taught as suggested for classes Q and P.)

Spelling is to be learned from exercises in both reading and "Language," which see. Words for oral spelling should be selected from reading lessons, and they should be uttered both by sound and by letter.

PENMANSHIP. — Copy-book No. 2 of the Tracing Course, pupils using pen and ink. For busy work, in part, upon slates, perfect in order the letters *o, a, c, e*.

ARITHMETIC. — Lessons 44 to 89 from the Pupil's Edition of Wentworth and Reed's First Steps in Number; also, in connection therewith, the *oral instruction* intended to be derived from, and given according to, suggestions found upon those pages of the Teacher's Edition which are indicated in parenthesis at the head of the several lessons above named, as found in the Pupil's

* Reading for higher primary classes marked as *supplementary* is for *sight reading, only*.

Edition. (The lessons from the Pupil's Edition may be put before the class as suggested for Class Q.) Roman numerals to XXX also taught.

ORAL INSTRUCTION. — Plants: work of previous classes reviewed with familiar plants; comparison of them with one another, and with those less familiar. (May to November.)

Place and size: direction and distance, the cardinal points of the compass; comparison of size, familiar objects used to develop proper use of terms; as, large, small, great, little, long, short, larger, largest, etc. — Lessons outlined for previous classes on the human body (under the head of oral instruction) reviewed and extended a little. Secondary colors taught. (November to May.)

LANGUAGE. — Same as for "Class P," with more frequent dictation exercises. For these, select sentences requiring use (1) of the period, interrogation mark, or exclamation point, as the terminal mark; and (2) of the comma in forms of address at the beginning of sentences, of which the following are types: Mary, please show me your new hat. — John, can I see you to-morrow? — Mother, see how it rains!

Stories from pictures and reproductions of stories told or read (both oral and written).

CLASS N.

READING. — The New Franklin Second Reader once a day till completed and more difficult parts reviewed, also once a day (as supplementary) the Young Folk's Library, Vol. V.* (Reading taught as suggested for previous classes.)

SPELLING. — As for previous class, also Harrington's Graded Speller from page 1 to page 21. Review the same.

PENMANSHIP. — Copy-book No. 2 of the Tracing Course, pupils using pen and ink. For busy work, in part, upon slates, perfect in order the letters *r*, *s*, *t*, *d*, *g*.

ARITHMETIC. — Lessons 89 to 149 from the Pupil's Edition of First Steps in Number; also, in connection therewith, the *oral*

* Twice a day after the Second Reader has been completed according to requirement.

instruction intended to be derived from, and given according to, suggestions found upon those pages of the Teacher's Edition which are indicated in parenthesis at the head of the several lessons above named, as found in the Pupil's Edition. (The lessons from the Pupil's Edition may be put before the class as suggested for Class Q.) Roman numerals to L also taught.

ORAL INSTRUCTION. * — Plants: different kinds of leaves, parts and shapes of flowers. Place and size: knowledge of direction and distance extended, cardinal points of compass reviewed; measurement of objects in the schoolroom, their relative size considered. — Secondary colors reviewed and commonly used hues, tints, and shades of color (as, scarlet, crimson, pink, etc.,) distinguished. — Lessons on human body, to afford a knowledge of the special senses — what they are, their purpose, and how used; effects of stimulants and narcotics upon the senses, and the injury their improper use produces in general also taught.

LANGUAGE. * — Pupils are to write, from memory, abstracts of stories read in their readers, and of others told or read them by the teacher. Stories from pictures continued. Observe use of letters and punctuation.

Dictation exercises as for the previous class, extended also by proper punctuation in forms of address occurring in other parts of the sentence; as, Let us run, Henry. — Will you tell me, Aunt Sarah, what mother said? — Be quick, O girls! — Look at this orange, little boy, and tell me what you see.

CLASS M.

READING. — The New Franklin Third Reader once a day, as far as convenient, also once a day the Young Folks' Library, Vol. VI. † (Reading taught as suggested for previous classes.)

SPELLING. — As for "Class O." also Harrington's Graded Speller from page 21 to page 33. Review the same.

* Oral Instruction and Language are so arranged that classes N and O may be taught what is required as one class by teachers so desiring to teach. The work assigned both classes can thus be properly done in the given time, if suitably planned for securing greater knowledge and better expression from the higher class.

† Vol. V. should be completed by this class, if not finished by the previous class, and Vol. VI. should also be completed, — even though it may therefor have to be used twice a day a part of the time.

PENMANSHIP. — Copy-book 02, special, with copies same as those for the previous class, in review. For busy work, in part, upon slates, perfect in order the letters *h, k, l, b, p, f*.

ARITHMETIC. — Fish's Arithmetic, number one, from page 9 to page 51 (omit last half of page 39), review from page 8 to page 51. Roman numerals to C also taught.

ORAL INSTRUCTION. — Plants; instruction outlined for all previous classes (N to Q) reviewed. — Place: the semi-cardinal points of the compass taught, direction and distance reviewed. — Color: relations of colors in rainbow, harmony and contrast of colors. — Lessons on human body; why we eat, offices of the blood, how we move and breathe, why we need pure air; effect of stimulants and narcotics upon the blood, the consequences portrayed.

LANGUAGE. — Hyde's Practical Lessons in the Use of English, First Book, for use by the teacher only *as a guide in giving oral instruction*, the first twenty-six lessons. Supplementary work, stories (oral and written) as for classes N and O.

LOWER MIDDLE SCHOOL.

CLASSES K AND L.

Time: Fourth Year; Each Class, Five Months.

CLASS L.

READING.* — The New Franklin Third Reader, completed and reviewed. Observe suggestions for classes Q and P.

SPELLING. — As for "Class O," also Harrington's Graded Speller from page 33 to page 48. Review the same.

PENMANSHIP. — September to February, copy-book No. 3; February to July, No. 4, both of the Primary Course.

* Supplementary reading for classes K and L, lessons from the Introductory Geography and from books already furnished for supplementary reading by exercises with three books, — as indicated on page 8 of the Course issued in 1886.

ARITHMETIC. — Multiplication table to 100, reviewed. Fish's Arithmetic, "Number One," from page 51 to page 83, review the same. Roman numerals to CC also taught.

LANGUAGE. — Hyde's Practical Lessons in the Use of English, First Book (Parts I. and II.), for use by the teacher only *as a guide in giving oral instruction*, from page 26 to page 69. Supplementary work, written abstracts of *knowledge derived from studies at school* — divisions and sub-divisions of form, human body, plants, animals, geography, etc., etc. Written abstracts of stories told or read also continued.

ORAL INSTRUCTION. — Principal occupations of city life named and described. Articles of domestic commerce discussed. Plants, from May to November. (Selections from Hooker's Child's Book of Nature, Part I., pages 13 to 67.) Animals, from November to May. (Selections from Hooker's Child's Book of Nature, Part II., pages 7 to 19. Also Harper's First Lessons in Natural History and Language, Parts I. and II.) Essentials of lessons upon the human body, as outlined for all previous classes, reviewed; and the same extended, as warranted by the increased capacity of pupils.

GEOGRAPHY. — The Introductory, pages 1 to 16, 22 to 32, and 34 to 40. Review the same. (Spare time from page 40.)

CLASS K.

READING. — The Advanced Franklin Third Reader. Observe suggestions for previous class.

SPELLING. — As for previous class, also Harrington's Graded Speller, from page 48 to page 65. Review the same.

PENMANSHIP, LANGUAGE AND ORAL INSTRUCTION. — Same as for previous class.

ARITHMETIC. — Fish's Arithmetic, "Number One," from page 83 to page 116; review the same, then from page 45 onward. Roman numerals to CCC.

GEOGRAPHY. — The Introductory, pages 12 to 34, and 64 to 82. Review from 64 to 82, and then advance as far as time permits.

HIGHER MIDDLE SCHOOL.

CLASSES I AND J.

Time: Fifth Year; Each Class, Five Months.

CLASS J.

READING. — The Fourth Reader, easier selections, taught as suggested for classes Q and P.

SPELLING. — Taught as for "Class O," also Harrington's Graded Speller from pages 65 to 79. Review the same, also all "Review" lessons in Part I.

PENMANSHIP. — September to February, copy-book No. 5; February to July, No. 6, both of the Primary Course.

ARITHMETIC. — Fish's Arithmetic, "Number One," from page 119 to page 150; review the same; Roman numerals to D also taught. Spare time from page 150 of the arithmetic.

LANGUAGE. — Hyde's Practical Lessons in the use of English, First Book (Parts I. and II.) for use by teachers *only as a guide in giving oral instruction*, from page 69 to page 114. Supplementary work, written abstracts of knowledge derived from studies at school, oral instruction and otherwise, as suggested for "Class L."

ORAL INSTRUCTION. — Principal occupations of country life named and described. Articles of foreign commerce. Plants, from May to November. (Selections from Hooker's Child's Book of Nature, Part I., pages 67 to 121.) Animals, from November to May. (Selections from Hooker's Child's Book of Nature, Part II., pages 91 to 171. Also Harper's First Lessons in Natural History and Language, Parts III. and IV.) Lessons upon the human body: the bones and joints, the muscles; effect of stimulants and narcotics upon the same. (Teach essentials of treatment of these subjects as found outlined in "The Human Body

and its Health," by Dr. William T. Smith; use also "The Laws of Health," by Dr. Joseph C. Hutchinson, for such additional information as can be advantageously utilized.)

GEOGRAPHY. — The Introductory. Review from page 82, if advisable. Advance to page 115; then review essentials from page 1 to page 115, omitting pages 40 to 64.

CLASS I.

READING. — The Fourth Reader, nearly or quite completed, taught as for the previous class.

SPELLING. — As for the previous class, also Harrington's Graded Speller, Part II., from page 1 to page 25. Review the same.

PENMANSHIP, LANGUAGE, AND ORAL INSTRUCTION. — Same as for previous class.

ARITHMETIC. — The Franklin Written, from page 1 to page 64, omitting Articles 116 and 117. (Observe notes on pages 16, 25, 35, and 48.) Review the same. Many problems from the Drill Tables on pages 58-63, especially in final review.

Oral Arithmetic, also exercises from the Franklin Written, and from Seaver and Walton's Mental (three books), — pages 1 to 14 and 31 to 43, — as directed and suggested under "Arithmetic." pages 9 and 10 of the course issued in 1886.

GEOGRAPHY. — Oral instruction on latitude, longitude, and climate. Swinton's Grammar School, pages 12, 13, 19, and from page 30 to page 46. Review the same. Spare time, if any, on New Hampshire, as found in the "Supplement."

FOURTH DIVISION OF THE GRAMMAR SCHOOL.

CLASSES G AND H.

Time: Sixth Year; Each Class, Five Months.

CLASS H.

READING. — The Fourth Reader.*

SPELLING. — Harrington's Graded Speller, Part II., from page 25 to page 49. Reviewed with next class.

PENMANSHIP. — September to February, copy-book No. 3; February to July, No. 3½, both of the Grammar Course.

ARITHMETIC. — The Franklin Written, pages 64 to 75 and pages 50 to 57. Review each assignment as soon as its work has been covered, then advance from page 75 as far as time permits.

Oral Arithmetic, also, exercises from Seaver and Walton's Mental — pages 43 to 62 — as directed and suggested under "Arithmetic," on pages 9 and 10 of the course issued in 1886.

LANGUAGE. — Hyde's Practical Lessons in the Use of English, Second Book, to Lesson XX. Supplementary work from Part IV. †, also as suggested for Class L.

GEOGRAPHY. — The Grammar-School, from page 46 to page 59. Pages 30 to 59, in review; also New Hampshire, as found in the "Supplement."

ORAL INSTRUCTION. — Lessons upon the human body: work and waste, the blood, the circulation; effects of stimulants and narcotics upon the same. (The foregoing to be reviewed with the next class. For treatment of these subjects, see suggestions in parenthesis herein given under oral instruction for "Class J.")

* The easier selections. The class is to read from Higginson's United States History twice a week. See suggestions for classes Q and P.

† Of Hyde's Second Book.

CLASS G.

READING, SPELLING, PENMANSHIP, AND ORAL INSTRUCTION. — Same as for previous class.

ARITHMETIC. — The Franklin Written, pages 75 to 111. Review to page 111 from most advanced topic attained when pupils constituted "Class H." Spare time in drill, from tables on pages 122 and 123, and in reviewing essentials of arithmetic assigned the preceding class and this one.

Oral Arithmetic, also exercises from Seaver and Walton's Mental — pages 14 to 31 and 62 to 67 — as directed and suggested for the previous class.

LANGUAGE. — Hyde's Second Book, from page 39 to page 74. Supplementary work as for the previous class.

GEOGRAPHY. — Swinton's Grammar-School, from page 62 to page 86. Review the same. Spare time, if any, on New Hampshire, as found in the "Supplement."

THIRD DIVISION OF THE GRAMMAR SCHOOL.

CLASSES E AND F.

Time: Seventh Year; Each Class, Five Months.

CLASS F.

READING. — The Fourth Reader.*

SPELLING. — Harrington's Graded Speller, Part II., from page 49 to page 73. Reviewed with next class.

PENMANSHIP. — September to February, copy-book No. 4; February to July, No. 5, both of the Grammar Course.

*The more difficult selections. The class is to read from Higginson's United States History twice a week. See suggestions for classes Q and P.

ARITHMETIC. — The Franklin Written, pages 111 to 136, omitting Articles 284 to 289. Review the same, then review from page 88 to page 136. (At the opening of the fall term, begin on page 88 and advance to page 136, then review from page 111 to page 136.)

Oral Arithmetic, also exercises from Seaver and Walton's Mental — pages 67 to 90 — as directed and suggested under "Arithmetic," on pages 9 and 10 of the course issued in 1886.

LANGUAGE. — Patterson's Elements, from page 1 to page 37. Review the same. Supplementary work as for "Class H."

GEOGRAPHY. — Swinton's Grammar-School, from page 86 to page 111. Review the same. Spare time, if any, in reviewing Europe.

ORAL INSTRUCTION. — Lessons upon the human body: food and water, digestion and absorption; effects of stimulants and narcotics upon the same. (The foregoing to be reviewed with the next class. For treatment of these subjects, see suggestions in parenthesis herein given under oral instruction for "Class J.")

CLASS E.

READING, SPELLING, PENMANSHIP, AND ORAL INSTRUCTION. — Same as for previous class.

ARITHMETIC. — The Franklin Written, pages 136 to 172, omitting Articles 375 to 385. Review the same. Spare time on essentials of arithmetic assigned the preceding class and this one.

Oral Arithmetic also, exercises from Seaver and Walton's Mental — pages 108 to 123 — as directed and suggested for the previous class.

LANGUAGE. — Patterson's Elements, from page 37 to page 67½. Review the same. Supplementary work as for the previous class.

HISTORY. — Barnes's United States History from page 9 to page 101. Make reading and talking lessons, only, of the first three of the Intercolonial Wars. Review the same. Spare time, from page 101 onward.

SECOND DIVISION OF THE GRAMMAR SCHOOL.

CLASSES C AND D.

Time : Eighth Year ; Each Class, Five Months.

CLASS D.

READING. — The Fifth Reader.*

SPELLING. — Harrington's Graded Speller, Part II., from page 73 to page 93. Reviewed with next class.

PENMANSHIP. — September to February, copy-book No. 6 ; February to July, No. 7, both of the Grammar Course.

ARITHMETIC. — The Franklin Written, pages 185 to 209. Review the same (see pages 250 to 254) ; then advance as far as time permits.

Oral Arithmetic, also exercises from Seaver and Walton's Mental — pages 123 to 131 and 103 to 108 — as directed and suggested under "Arithmetic," on pages 9 and 10 of the course issued in 1886.

LANGUAGE. — Patterson's Elements, from page 67½ to page 112. Review the same. Supplementary work, — selections from Metcalf and Bright's Language Exercises, Parts I. and II. ; from Our Language, Part I. ; and from other similar works. See also directions and suggestions for classes H and L. Let the selections be such as will test (and furnish needed reviews of) work indicated for previous classes, also advance it progressively.

HISTORY. — Barnes's United States History, from page 101 to 215. Review the same.

ORAL INSTRUCTION. — Lessons upon the human body : respiration and the voice, the nervous system ; effects of stimulants and narcotics upon the same. (The foregoing to be reviewed with the next class. For treatment of these subjects, see suggestions in parenthesis herein given under oral instruction for "Class J.")

* The easier selections. See suggestions for classes Q and P.

CLASS C.

READING, SPELLING, PENMANSHIP, and ORAL INSTRUCTION.
— Same as for "Class D."

ARITHMETIC. — The Franklin Written, pages 209 to 224. Review the same, then take pages 88 to 136 in review. Spare time on essentials of arithmetic assigned the preceding class and this one.

Oral Arithmetic, also exercises from Seaver and Walton's Mental — pages 131 to 139 and 90 to 103 — as directed and suggested for the previous class.

LANGUAGE. — Patterson's Elements, from page 112* to page 138. Review from page 67½. Supplementary work as for the previous class.

GEOGRAPHY. — Swinton's Grammar-School, from page 1 to page 30. Review the same. Also essentials of the United States. Spare time, if any, on New Hampshire and Massachusetts, as found in the "Supplement."

FIRST DIVISION OF THE GRAMMAR SCHOOL.

CLASSES A AND B.

Time : Ninth Year : Each Class, Five Months.†

CLASS B.

READING. — The Franklin Fifth Reader. ‡

SPELLING. — Harrington's Graded Speller, all "Review" lessons and other most difficult words in entire book.

* Fall term, first review from page 67½ to page 112; then advance to page 138, and in January review from page 112 to page 138.

† Or ten months in Class B for those who enter this division in February, unless they are able to complete the course by the following July.

‡ The more difficult selections. See suggestions for classes Q and P.

PENMANSHIP. — September to February, copy-book No. 8; February to July, Meservey's Book-keeping — single entry — to the Fourth Form.

ARITHMETIC. — The Franklin Written, pages 254 to 260; 263 to 272; 277 to 287; 226 to 234; and 245 to 254. Review the same by topics, or otherwise, at discretion of teacher. Selections may be made, also, from pages 315 and 316; and any spare time can be utilized in doing the elementary part of the work assigned the next class.

Oral Arithmetic, also exercises from Seaver and Walton's Mental — pages 139 to 161 — as directed and suggested under "Arithmetic," on pages 9 and 10 of the course issued in 1886.

LANGUAGE. — Patterson's Elements, from page 138 to 177. Supplementary work as outlined for Class D.

HISTORY AND GEOGRAPHY. — Barnes's United States History, from page 215 to the Constitution. Instead of reviewing the history* in the spring, review Swinton's Grammar-School Geography from page 62 onward — as soon as the history is completed. In the fall, have the history completed and reviewed by December 25.

During the winter term, pupils (who constituted Class B in the fall) are to review the entire Geography.

ORAL INSTRUCTION. — Lessons upon the human body: the skin, the ear, and the eye; things to be done in cases of accident; effects of stimulants and narcotics upon the human system, general and particular. (The foregoing to be reviewed with the next class. For treatment of these subjects, see suggestions in parenthesis herein given under oral instruction for "Class J.")

CLASS A.†

READING, SPELLING, PENMANSHIP, AND ORAL INSTRUCTION. — Same as for previous class.

ARITHMETIC. — The Franklin Written, pages 1 to 12; 51 to 57, and 317; 68 to 72, and 321; 115 to 122 and 322 to 324;

*The few pupils who will be found prepared to enter the High School from this class will not need a review of the history, and the rest of the class will get the review in the fall.

† Those of this class in June who return in the fall should review work of Class B from September to February.

135 and 324; 136 to 170 and 325 to 329; 250 to 254 and 330 to 334½; 335 to 337; 265 to 285 and 337 to 339½; 293 to 299; 340 and 341; and 343 to 349. This re-review should be treated with special reference to the discussion of the principles of arithmetic.

Oral Arithmetic, also exercises from Seaver and Walton's *Mental* — pages 62 to 67, 79 to 103, and 106 to 161 — as directed and suggested under "Arithmetic," on pages 9 and 10 of the course issued in 1886.

LANGUAGE.—Patterson's *Elements*, from page 177 to page 223; also exercises from the *Reader* — explanation of subject-matter, thorough drill in analysis and parsing of selections from the same, weak points in grammar toned up.

GEOGRAPHY.—During the winter term, review the entire geography.

CIVICS.—During the spring term, as yet to be directed.

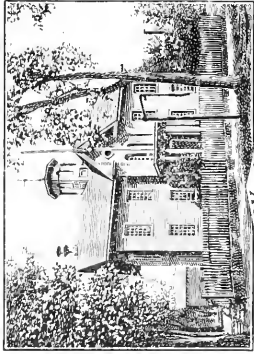
MANCHESTER HIGH SCHOOL COURSE OF STUDY, MODIFIED, 1888.

ENGLISH DIVISION. <i>2 or 3 Years.</i> ENGLISH, WITH FRENCH IF DESIRED.	CLASSICAL DIVISION. <i>4 Years.</i> ENGLISH AND LATIN, WITH FRENCH IF DESIRED	COLL. PREPARATORY <i>5 Years.</i> ENGLISH, LATIN, GREEK, AND FRENCH.	SCIENTIFIC, PREPARATORY <i>3 Years.</i> ENGLISH AND FRENCH.
Algebra. English Grammar and Analysis, Physics.	FIRST YEAR.—FALL TERM. Algebra, Latin, Physics.	Same as the Classical Division.	Same as the English Division.
Algebra. English Grammar and Composition, Physics.	WINTER TERM. Algebra, Latin, Physics.	Same as the Classical Division.	Same as the English Division.
Algebra. Rhetoric, Physics.	SPRING TERM. Algebra, Latin, Physics.	Same as the Classical Division.	Same as the English Division.
Geometry,* Studies in English. † Physiology.	SECOND YEAR.—FALL TERM. Geometry, Latin, Physiology.	Geometry, Latin, Greek.	Geometry, Studies in English, † French.
Geometry, General History, Civil Government.	WINTER TERM. Geometry, Latin, Civil Government.	Geometry, Latin, Greek.	Geometry, General History, French.
Geometry, General History, Botany. †	SPRING TERM. Geometry, Latin, Botany. †	Geometry, Latin, Greek.	Geometry, General History, French.
English History. Commercial } French § may take Arithmetic. } the place of either. Chemistry. }	THIRD YEAR.—FALL TERM. Latin, English History, History, } French may take Chemistry. } the place of either.	His. and Geog. of Rome, Latin, Greek.	Arithmetic rev., English History, French.

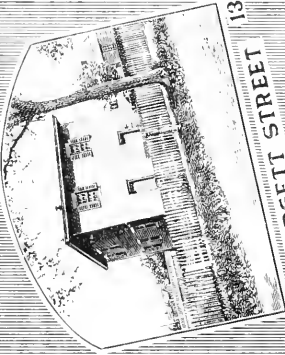
English Authors. Book-keeping } French may take and Arithmetic. } the place of either. Chemistry.	Latin. General } French may take History. } the place of either. Chemistry.	His. of Rome and Greece. Latin. Greek.	Algebra rev. English Authors. French.
SPRING TERM.			
English Authors. Book-keeping } French may take and Arithmetic. } the place of either. Chemistry.	Latin. General } French may take History. } the place of either. Chemistry.	His. and Geog. of Greece. Latin. Greek.	Geometry rev. English Authors. French. <small>(End of Scientific Course. See last page.)</small>
FOURTH YEAR.—FALL TERM.			
Trigonometry. } Three studies in or Arithmetic rev. } English, or Eng. Grammar rev. } French may Mineralogy. } take the place and Geology. } of one of them.	Rhetoric. } French may Trigonometry. } take the or Arith. Rev. } place of Mineralogy. } either. and Geology. } †	Arithmetic rev. † Latin. Greek.	Rhetoric. † French. Latin and Greek. **
WINTER TERM.			
Algebra rev. † Mental Science. } Astronomy. } Three studies in English, or French may take the place of one of them.	English Authors. Algebra rev. † Astronomy. } French may take either.	Algebra rev. Latin. Greek.	English Authors French. Latin and Greek.
SPRING TERM.			
Surveying. } Three studies in or Geometry rev. } English, or Mental Science } French may Physical Geog. } take the place of one of them.	English Authors. Surveying. } French may or Geometry rev. } take place Physical Geog. } of either.	Geometry rev. Latin. Greek. (FIFTH YEAR, SEVENTH COL.)	English Authors. French. Latin and Greek.

A DECLAMATION OR AN ESSAY (ALTERNATING) IS REQUIRED OF EACH PUPIL EVERY TWO WEEKS THROUGHOUT THE COURSE.

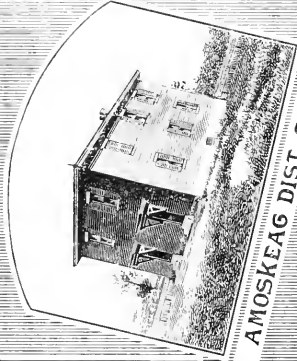
* Pupils in the English Division, who expect to withdraw at the end of the second year, may, if they so elect, take the mathematics of the third year in place of geometry; and upon withdrawal at the end of the second year each will receive a certificate specifying studies completed, with specification of results attained thereon.
 † This arrangement affords the advantages of the hitherto so-called "Business Course" to those who can not attend the school more than two years.
 ‡ Studied in English. — once a week next three terms, to connect the study of Grammar and Rhetoric with the work to be done in English Authors.
 § French might be taken in place of either.
 ¶ French might be taken in place of either, before the close of the fourth year.
 †† Examinations in mathematics for admission to Harvard College can be taken a year before entering, pupils, designing to enter other colleges may take the English studies of the fifth year as extras during the fourth year, if they so elect and are deemed desirable, in order to omit the fifth year preparatory.
 ** Latin and Greek alternate weekly throughout the fifth year.



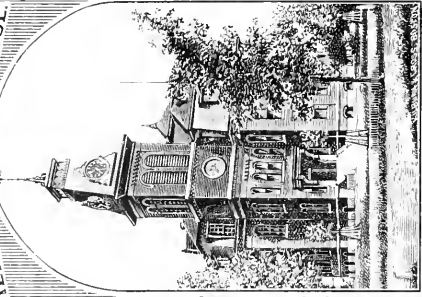
13. MERRIMACK ST. SCHOOL.



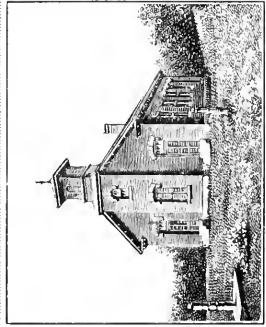
4. BLODGETT STREET



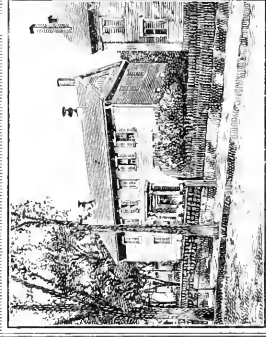
2. AMOSKEAG DIST. SCHOOL.



1. ASH STREET SCHOOL.



19. STARK DISTRICT SCHOOL.



11. LOWELL STREET SCHOOL.

APPENDIX.

- I. POPULATION, ETC.
- II. SCHOOLHOUSES.
- III. SCHOOLS.
- IV. TEACHERS.
- V. PUPILS.
- VI. TRUANCY.
- VII. FINANCE.
- VIII. SCHOOL YEAR, 1890.
- IX. HIGH SCHOOL GRADUATING CLASS.
- X. WINNERS OF CLARKE PRIZES.
- XI. ORGANIZATION OF COMMITTEES, 1891.
- XII. LIST OF TEACHERS, 1891.
- XIII. SCHOOL YEAR, 1891.

APPENDIX.

STATISTICS.

I. — POPULATION.

Population of the city by last census, 1890	43,983
Legal school age, 5 to 21.	

II. — SCHOOLHOUSES.

Number of schoolhouses in use	22
Number of schoolhouses not in use	1
(Bridge-street house, corner of Union.)	
Number of schoolrooms used for day schools	77
(Three of the same, and six others, used for evening schools. Rooms unoccupied by city for day schools are, two at Spring-street house, three at Lowell-street, and two at Bridge-street, the last two being unfit.)	
Number of rooms used for High-school classes	6
Number of rooms used for Grammar schools	21
Number of rooms used for Middle schools	16
Number of rooms used for Primary schools	26
Number of rooms used for Partially Graded schools	2
Number of rooms used for Ungraded Schools	6

III. — SCHOOLS.

(All for both sexes.)

Number of High Schools	1
----------------------------------	---

Number of combined Grammar and lower grade (Middle and Primary) schools	7
Number of combined Middle and Primary schools (Merri-mack-street or Training school)	1
Number of schools all Primary grade	5
Number of Partially Graded schools	2
Number of Ungraded schools	6

IV. — TEACHERS.

Male teachers in the High School	* 2
Female teachers in the High school	4
Male teachers in the Grammar schools	5
Female teachers in the Grammar schools	16
Female teachers in the Middle schools	16
Female teachers in the Primary schools	23
Female teachers in the Partially Graded schools	3
Female teachers in the Ungraded schools	6
Special teachers: One male in music the entire year, one male in elocution † winter and spring terms	2
Average number of male teachers ‡	7
Average number of female teachers	68
Male teachers in the evening schools	8
Female teachers in the evening schools	10
Average number of male teachers in the evening schools	5
Average number of female teachers in the evening schools	7
Male teachers in the evening Drawing schools	3
Average number of male teachers in the evening Drawing schools	3

* Three during fall term, one in place of lady resigned.

† Once a week.

‡ Exclusive of special teachers.

(B)

V.—TABLE SHOWING THE ATTENDANCE UPON THE VARIOUS DAY SCHOOLS FOR THE YEAR 1890.

SCHOOLS.	Whole No. enrolled.		Whole No. belonging.		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.	TEACHERS.
	Boys.	Girls.	Boys.	Girls.				
Hess School.....	263		70	167	184	179	97.3	Albert Somes, Master. G. L. Hopkins, Sub-master. W. T. Abbott, 1 term, Lucretia E. Manahan, Mary A. Buzzell, 2 terms, Rocilla M. Tuson, 2 terms, Mary Stanton, Nellie Pickering, 1 term, } Assistants.
GRAMMAR SCHOOLS.								
Franklin-street, First Division	45		15	19	22	21	95.1	C. W. Bickford, Master. Anna O. Heath, Jennie M. Chandler, } Assistants. Carrie E. Reid,
“ “ Second “	48		14	19	27	25	92.6	
“ “ Third “	68		26	29	37	35	94.6	
“ “ Fourth “	63		29	20	29	37	94.9	
Franklin-street totals.....	.....	.....	84	87	125	118	94.4	
Spring-street, Fourth Division.....	51		21	21	24	21	87.5	Lizzie P. Gove.
Lincoln-street, First Division	71		17	32	42	39	92.8	Frank S. Sutcliffe, Master. Annie W. Patton, } Assistants. Belle R. Daniels, Mary F. Barnes, }
“ “ Second “	79		28	30	50	47	91.0	
“ “ Third “	73		25	26	48	45	93.7	
“ “ Fourth “	82		28	27	47	43	91.5	
Lincoln-street totals .....	.....	.....	98	115	187	174	93.0	
Ash-street, First Division	69		20	33	42	40	95.2	F. C. Baldwin, Master. Jennie L. Thompson, 2 terms, Gertrude F. How, 1 term, Mary E. Banton, Bertha L. Dean, } Assistants.
“ “ Second “	62		17	28	38	37	97.4	
“ “ Third “	74		21	36	43	40	93.0	
“ “ Fourth “	56		21	15	29	26	89.6	
Ash-street totals.....	.....	.....	79	112	152	143	94.1	

(C)

Main-street, First Division.....	58	20	16	30	29	96.6	George Wineb, Master. { Lillian Little, 2 terms. { Barbara B. Joy, 1 term.
“ Second “	69	13	8	30	27	90.0	{ Grace W. Irwin, 2 terms. { Lillian Little, 1 term.
“ Third “	107	36	27	44	40	90.9	{ Barbara B. Joy, 2 terms. { Mabel L. Davis, 1 term.
“ Fourth “	52	29	37	47	43	91.4	
Main-street totals	276	98	88	151	139	92.1	
Webster-street, First Division	47	18	22	31	29	93.5	B. S. Andrew, Master. Mabel J. Brickett, 2 terms.
“ Second “	59	7	13	18	17	94.4	Alta C. Willard, Assistant.
“ Third and Fourth “	47	20	20	32	31	95.9	
Webster-street totals	153	45	55	81	77	95.1	
Bakersville, Grammar grades.....	35	15	15	24	22	91.6	Lizzie A. Burns.
GRAMMAR-SCHOOL TOTALS †.....	464	166	166	256	233	93.1	
MIDDLE SCHOOLS.							
Webster-street, Higher and Lower	47	15	18	30	27	90.0	Eva F. Tuson.
Ash-street, Higher	79	16	35	44	41	93.2	Nancy S. Bunton.
“ Lower	71	28	29	47	41	87.2	Kittie J. Ferren.
Spring-street, Higher	52	22	21	28	25	89.3	Emma L. McLaren.
“ Lower	61	32	13	34	29	85.3	Fannie D. Moulton.
Lincoln-street, Higher †.....	83	37	18	48	41	91.6	Nettie F. Ainsworth.
“ Higher	71	24	22	39	36	92.3	Susie G. Woodman.
“ Lower	75	25	24	42	38	90.5	Cora B. Gilford.
Merrimack-street, Lower	116	25	25	31	27	87.1	C. P. Wing, Principal.
Franklin-street, Higher	58	25	21	29	27	93.1	C. Augusta Abbott.
“ Lower	57	22	23	37	35	94.6	H. G. Flanders.
Main-street, Higher	100	21	33	42	37	88.8	Flora M. Souler.
“ Higher	86	21	37	49	43	87.7	Ellen E. McKean.
“ Lower	83	25	27	40	36	90.0	{ Josephine H. Newton, 2 terms. { Millie S. Morse, 1 term.
Bakersville, Higher and Lower.....	69	28	24	40	36	90.0	Nettie C. Woodman.
MIDDLE-SCHOOL TOTALS.....	368	168	18	38	33	86.8	Lelia A. Brooks.
		368	376	586	526	89.7	

* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.
† The Lincoln-street higher-middle school had a fourth division class, and aggregate grammar and middle school totals are adjusted accordingly.

(D)

ATTENDANCE UPON THE VARIOUS DAY SCHOOLS. — *Continued.*

	PRIMARY SCHOOLS.		Whole No. enrolled.		Whole No. Belonging.*		Average daily attendance.	Per cent of daily attendance.	TEACHERS.
			Boys.	Girls.	Boys.	Girls.			
Amoskeag, Higher and Lower.....			76	41	28	49	46	93.9	Mary G. Tyuan.
Webster-street, Higher and Lower.....			45	21	16	30	23	76.7	Lettie M. Smith.
Blodgett-street, Higher.....			41	12	18	23	22	95.6	Gertrude H. Brooks.
" Lower.....			68	25	29	35	31	88.6	Georgiana Dow.
Ash-street, Higher.....			74	32	26	44	40	90.9	May F. Nutt.
" Lower*.....			113	58	53	69	58	84.0	Clara E. Woods.*
Lowell-street, Mixed.....			78	40	31	32	30	93.7	Helen M. Morrill.
Spring-street, Higher.....			61	27	24	37	33	89.2	Nellie I. Sanderson.
" Lower.....			58	22	22	36	30	92.7	Lucia E. Esty.
" Lower.....			69	31	38	28	25	89.3	{ Alice E. Page, 2 terms, Maude L. Kent, 1 term.
Wilson Hill, Lower.....			71	30	21	46	42	91.4	Huldab C. Graupner.
" Lower.....			81	34	41	43	38	88.3	Ella Hope.
Lincoln-street, Higher.....			82	27	32	50	45	90.0	Theodora Richardson.
Merrimack-street, Higher.....			134	34	30	36	32	88.9	{ C. E. Wing, Principal, Nellie M. James, Ella F. Sanborn, Mary W. Mitchell, Mary J. Walsh, Kate T. Clarke, Mary E. Brophy.
" Lower.....			136	33	18	35	32	91.4	
" Lower.....			127	67	52	45	38	84.0	
Franklin-street, Higher.....			62	24	25	34	31	91.2	
" Lower.....			85	35	45	45	40	88.9	
School-street, Higher.....			76	23	15	44	40	90.9	
" Lower.....			78	32	22	46	42	91.3	
" Lower.....			74	34	57	42	39	92.8	
" Lower.....			82	36	44	45	40	88.9	

(E)

* The Ash-street lower primary was conducted as two schools during the fall term, Miss Bertha A. Young being made Miss Woods' assistant.

South Main-street, Higher.....	56	15	22	33	29	89.0	Delle E. Haines.
" Lower.....	74	36	38	42	37	88.1	{ Sarah B. Paige, 2 terms.
Bakersville, Higher.....	57	19	21	35	32	91.4	{ Annie B. Goodwin, 1 term.
" Lower.....	81	38	39	44	37	84.1	{ Izzetta S. Locke.
PRIMARY-SCHOOL TOTALS.....	.....	826	801	1,044	932	89.2	{ Edith M. Stebbins.
PARTIALLY GRADED SCHOOLS.							
Amoskeag, Grammar and Middle.....	51	18	24	31	30	96.8	Nettie B. Fogg.
Hallsville, all grades.....	87	38	40	56	47	83.9	{ Ella F. Parker.
.....	.....	56	64	87	77	88.5	{ Nellie M. Atwood, 2 terms.
PARTIALLY GRADED SCHOOL TOTALS.....	.....	.....	.....	.....	.....	.....	{ Abbie R. West, 1 term.
UNGRADED SCHOOLS.							
(F) Stark District.....	17	7	8	9	7	77.8	Inez M. Warren.
Goff's Falls.....	55	30	23	32	27	84.4	{ Abbie R. West, 2 terms.
Harvey District.....	21	8	13	17	15	88.2	{ Georgie Kendrick, 1 term.
Youngsville.....	51	28	20	34	29	85.3	{ Albert P. Parrett, 1 term.
Webster's Mills.....	20	10	10	12	9	75.0	{ Emma J. Fla., 2 terms.
Mosquito Pond.....	20	14	6	14	12	85.7	{ Louisa A. Gill, 1 term.
UNGRADED-SCHOOL TOTALS.....	.....	97	80	118	99	83.9	{ George A. Nute, 1 term.
Aggregate totals for 1890.....	† 1,881	1,933	2,795	2,536	31.3	.....	{ Mary A. Seavey, 1 term.
Aggregate totals for 1880.....	† 1,862	1,925	2,801	2,581	92.2	.....	{ Genevieve B. Knight.
.....	.....	.....	.....	.....	.....	.....	{ Olive A. Rowe.

* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.
 † Totals here would involve a multitude of errors. Many pupils would be reckoned two or three times, on account of numerous transfers from one school to another, made at the July promotion, at times of removal to other districts, etc., etc.

DAY SCHOOLS.

Summary of the attendance upon the several grades of public day schools for the year 1890 :

GRADES.	Whole number different pupils.		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.
	Boys.	Girls.			
High	70	107	184	179	97.3
Grammar	464	505	776	723	93.1
Middle.....	368	376	586	526	89.7
Primary.....	826	801	1,044	932	89.2
Partially graded.....	56	64	87	77	88.5
Ungraded.....	97	80	118	99	83.9
Totals, 1890.....	1,881	1,933	2,795	2,536	91.3
Totals, 1889.....	1,862	1,925	2,801	2,581	92.2

EVENING SCHOOLS.

Summary of the attendance upon the several grades of public evening schools for the year 1890 :

SCHOOLS.	Whole number different pupils.		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.
	Boys.	Girls.			
Lowell street	215	.....	54	40	74.0
Spring street.....	.....	190	37	27	73.0
Clinton street.....	122	.....	25	16	64.0
School street.....	.....	66	17	12	70.6
Drawing-schools	93	1	56	46	82.1
Totals, 1890.....	430	257	189	141	74.1
Totals, 1889.....	523	323	246	177	71.9

Evening-School Teachers.

Charles E. Cochran, Principal of Lowell-street school, for boys.

Assistants, — Etta S. Dana, Mary A. Buzzell, C. A. Bohlin, Nellie M. James, and W. J. Moorar.

Charles W. Bickford (Winter) and Frank S. Sutcliffe (Fall), Principals of Spring-street school, for girls.

Assistants, — Emma J. Ela, Lizzie D. Hartford, Maggie Linen, and Fannie L. Sanborn.

Frank C. Livingston (Winter) and L. H. Carpenter (Fall), Principals of School-street school, for both sexes.

Assistant, — Nellie M. Atwood.

Fred C. Baldwin (Winter) and Charles W. Bickford (Fall), Principals of Clinton-street school, for boys.

Assistants, — Maude L. Kent, Emma B. Abbott, and S. C. Kennard.

Evening Drawing-School Teachers.

John M. Kendall, Henry W. Allen, and Alphonzo H. Sanborn.

(H)

GENERAL SUMMARY.

The following table presents the main features of interest pertaining to the attendance upon the public schools for the last ten years.

DATE.	Enrolled in public day schools.		Whole No. belonging.		Average number belonging.	Average daily attendance.	Percentage of daily attendance.	Average attendance at evening schools.	Graduated from grammar schools.*	Passed city schools for high.	Entered high from city schools. †	Graduated from High School.	Average No. teachers employed.
	Boys.	Girls.	Boys.	Girls.									
1881.....	4,235	2,200	2,035	2,858	2,602	91.0	110	64	62	54	39	75	
1882.....	4,095	2,086	2,009	2,957	2,712	91.7	164	76	65	57	53	73	
1883.....	4,062	2,061	2,001	2,848	2,612	91.4	103	97	75	66	27	71	
1884.....	3,918	1,924	1,994	2,872	2,645	92.1	95	85	71	49	38	72	
1885.....	3,806	1,891	1,915	2,725	2,430	90.6	96	98	89	71	35	72	
1886.....	3,632	1,812	1,820	2,698	2,475	91.9	79	78	71	53	42	74	
1887.....	3,670	1,817	1,853	2,711	2,468	90.8	98	98	95	61	42	76	
1888.....	3,712	1,806	1,906	2,768	2,500	90.3	116	88	80	58	45	76	
1889.....	3,787	1,862	1,925	2,801	2,581	92.2	177	101	96	73	55	75	
1890.....	3,814	1,881	1,933	2,795	2,536	91.3	141	121	114	83	33	75	

CHANGES IN CORPS OF TEACHERS.

The whole number of different teachers employed one term or more in the day schools, within the year, has been 86. Their respective positions may be learned from the attendance table on pages C, D, E, and F of the Appendix, but the various changes made within the year can be more readily understood by an inspection of the following :

* Including grammar classes in suburban schools.

† Usually some pupils have annually entered from other schools. This year two have so entered.

(1)

Teachers.	Date of effect of resignation.	Teachers.	Date of begin- ning service.
Wm. H. Furber.	Jan. 24.	Mabel J. Brickett.	Jan. 6.
Mary A. Buzzell.	June 27.	Charles W. Bickford.	Jan. 27.
Jennie L. Thompson.	June 27.	Wm. T. Abbott.	Sept. 8.
Grace W. Irwin.	June 27.	Nellie Pickering.	Sept. 8.
Josephine H. Newton.	June 27.	Gertrude F. How.	Sept. 8.
Sarah B. Paige.	June 27.	Mabel L. Davis.	Sept. 8.
Alice E. Page.	June 27.	Millie S. Morse.	Sept. 8.
Nellie M. Atwood.	June 27.	Annie B. Goodwin.	Sept. 8.
	Date of effect of transfer.	Maude L. Kent.	Sept. 8.
		Georgie Kendrick.	Sept. 8.
Fred C. Baldwin.	Jan. 24.	Mary A. Seavey.	Sept. 8.
Abbie R. West.	Sept. 8.	Bertha A. Young.	Sept. 8.

TRAINING SCHOOL SUB-TEACHERS.

Mabel J. Brickett. *	Annie M. Sleeper. †
Annie B. Goodwin. *	Gertrude L. Southard. †
Emma M. Streeter. *	Mary G. Worthen. †
Bertha A. Young. *	Mary A. Clement. ||
Mary E. Moulton. †	B. Millie Cayzer. §
Gertrude A. Burns. †	Susie L. Dodge. §
Georgia M. Cheney. †	Carrie E. Litch. §

* Graduated January 31, 1890.

† Graduated June 27, 1890.

‡ Expected to graduate January 30, 1891.

|| Entered February 3, 1890.

§ Entered September 8, 1890.

(J)

VI.—WORK OF TRUANT OFFICER.

DATE.	Absentees reported from		No. voluntarily returned to		No. reported caused to attend		No. moved out of the city.	No. found sick and unable to attend.	No. otherwise unavoidably detained.	No. not found.
	City schools.	Parochial schools.	City schools.	Parochial schools.	City schools.	Parochial schools.				
January	17	7	..	..	11	4	1	7	1	..
February.....	12	28	4	..	6	21	..	6	3	..
March.....	17	22	..	3	12	14	..	6	3	1
April	15	36	..	1	11	24	2	8	5	..
May.....	23	33	4	1	17	24	..	5	5	..
June.....	14	27	2	..	12	20	..	3	4	..
September ...	19	5	5	..	7	5	8	..	4	1
October.....	30	20	5	1	18	14	..	4	2	..
November ...	18	17	5	3	8	14	2	1	2	..
December....	7	8	2	..	5	5	1	..	1	1
Totals.....	172	203	27	9	107	145	14	40	30	3

DATE.	Truants not enrolled found on streets.	No. truants caused to attend		No. others between 6 and 16 unable from ill health, to attend any school.	No. of school age found on streets in school hours.	No. of parents visited.	No. temporarily confined at the police station.	No. brought before the court.	No. employment certificates granted.
		City schools.	Parochial schools.						
January.....	35	14	21	15	85	84	..	..	68
February	6	3	3	3	80	67	2	..	48
March.....	6	2	4	2	86	55	..	..	79
April.....	13	6	7	..	61	64	1	..	65
May.....	19	8	11	..	118	106	4	..	71
June.....	..	..	..	..	73	50	..	..	54
September.....	20	9	11	2	83	110	3	..	70
October.....	21	8	13	..	84	75	6	..	9
November.....	19	6	13	2	73	49	3	1	21
December.....	1	1	..	..	29	23	..	..	54
Totals.....	140	57	83	24	772	683	19	1	539

(K)

VII. — FINANCE. — 1890.

ITEMS OF ACCOUNT.	Resources from appropriations, receipts, and transfers. *	Over-drafts of previous years.	Expenditures, 1890.
Salaries of teachers.....	\$46,019.08	\$614.21	\$45,404.87
Books and stationery.....	141.35	.....	141.35
Free text-books and supplies..	9,005.11	.....	9,005.11
Furniture and supplies.....	606.98	31.83	575.15
Repairs	4,119.76	.....	4,119.76
Care of rooms.....	3,522.69	145.94	3,376.75
Fuel.....	3,834.25	130.93	3,703.32
Printing and advertising.....	502.28	113.23	389.05
Contingent expenses.....	1,125.99	295.89	830.10
Evening common schools.....	1,478.57	223.76	1,254.81
Evening drawing schools.....	694.89	.....	694.89
Total.....	\$71,050.95	\$1,555.79	\$69,495.16

COST OF CITY SCHOOLS, 1890.

Expenditures, as above specified \$69,495.16

Salaries.

Members of the school board \$170.00

Clerk of the board 100.00

Superintendent of schools 2,000.00

Truant officer 750.00

Total \$72,515.16

Receipts on Account of the Schools.

Literary fund \$4,504.70

Non-resident tuition 428.75

Total \$4,933.45

* At close of year, after transfers had been made.

(L)

The difference between the two totals last named is \$67,581.71, and this is therefore the amount raised by direct tax for the support of the city schools during the year. The "City Valuation" for 1890 is \$24,173,240; and hence the rate of school tax for the year is .00279.

The amount (\$9,005.11) of the new item of expense, known as "Free Text-books" and made obligatory by statute law, is responsible for the increase in the general expense to the extent of .00037 of the city's valuation. Therefore, .00279 minus .00037, or .00242, would be the rate of school tax for 1890, if based (for the sake of a just comparison) upon the same data as used in determining the rate for last year. The rate for 1889 was .00259. Then .00259 minus .00242, or .00017, is the diminution in the rate this year based on the usual items of expenditure as for last year; and this diminution shows not only economical management by the school board, but also that the increase in the aggregate expense for the support of the schools has not kept pace with the increase in the city's valuation.

SCHOOL PROPERTY, DECEMBER 31, 1890.

Furniture. — Included under this head are teachers' and pupils' desks, chairs, settees, tables, portable blackboards, clocks, pianos and their appurtenances, ladders, double windows, and heating apparatus.

General Supplies. — Included under this head are ink-stands, bells, waste baskets, thermometers, brooms, floor-brushes, dusters, dust-pans and brushes, door-mats, pails, dippers, wash basins, window brushes, mops, coal hods, shovels, axes, hammers, screw drivers, and wheelbarrows.

(M)

SCHOOL BUILDINGS.	Furniture.	General supplies.
High school.....	\$3,428.00	\$25.00
Franklin-street.....	2,229.00	36.00
Spring-street.....	1,937.00	28.00
Lincoln-street.....	3,355.00	56.00
Ash-street.....	3,231.00	30.00
Main-street.....	2,107.00	30.00
Webster-street.....	2,108.00	54.00
Bakersville.....	813.00	15.00
Blodget-street.....	228.00	7.00
Lowell-street.....	302.00	11.00
Training school.....	1,613.00	28.00
Wilson Hill.....	321.00	9.00
School-street.....	128.00	.....
South Main-street.....	319.00	12.00
Amoskeag.....	345.00	8.00
Hallsville.....	169.00	7.00
Stark District.....	94.00	4.00
Goffe's Falls.....	114.00	5.00
Harvey District.....	124.00	6.00
Youngville.....	85.00	5.00
Webster's Mills.....	65.00	5.00
Mosquito Pond.....	62.00	4.00
Evening Schools.....	250.00	200.00
Total.....	\$23,427 00	\$585.00

Special Supplies. — Included under this head are maps, globes, charts and chart supporters, numeral frames, slates, pencils, pencil sharpeners, pens, penholders, crayon, erasers, pointers, measures, geometrical forms, compasses, and rulers.

(N)

GRADES.	Special supplies.	Unabridged dictionaries and library or reference books.	Regular text-books.
High School	\$200.00	\$535.00	\$1,500.00
Grammar schools.....	725.00	225.00	2,400.00
Middle schools.....	474.00	175.00	1,200.00
Primary schools.....	387.00	150.00	500.00
Suburban schools.....	154.00	75.00	400.00
Evening schools.....	5.00	.....	50.00
Totals.....	\$1,945.00	\$1,160.00	\$6,050.00

Amount of totals in two foregoing tables . . . \$33,167.00

Superintendent's Office, December 31, 1890.

Value of furniture	\$200.00
general supplies	25.00
special supplies	110.00
blank books and paper	250.00
regular text-books	535.00

Aggregate total of personal property belonging to
city school department \$34,287.00

VIII. — SCHOOL YEAR.

Winter term of twelve weeks opened January 6. closed March 28. Vacation of two weeks.

Spring term of eleven weeks opened April 14, closed June 27. Vacation of ten weeks.

Fall term of fourteen weeks opened September 8, closed December 12. Vacation of two weeks.

Number of school days in the year, as provided above by the school board, 185.

Average number of days the schools were taught, 176.

(Being closed several holidays, days of "Teachers' Institutes," and half-days on account of bad weather or insufficient heat.)

(O)

IX. — HIGH SCHOOL GRADUATING CLASS.

FOUR YEARS' COURSE.

Norwin Sherwood Bean, <i>c.</i>	Alfred Kimball Hobbs, <i>e.</i>
Grace Berry, <i>c.</i>	James Franklin McKinney, <i>c.</i>
Annie A. Brigham, <i>c.</i>	Bessie Campbell Mitchell, <i>c.</i>
Bertha Millie Cayzer, <i>c.</i>	Arthur Warren Morgan, <i>col.</i>
Mattie Sophronia Chadwick, <i>e.</i>	Charles D. Osgood, <i>col.</i>
Benjamin Martin Chandler, <i>e.</i>	Eugene Woodbury Sargent, <i>e.</i>
Lucy May Choate, <i>c.</i>	Florence Sophia Shirley, <i>c.</i>
Susie Lena Dodge, <i>c.</i>	Cora Belle Simmons, <i>e.</i>
Susie Christine Fogg, <i>c.</i>	Nellie Viola Southard, <i>c.</i>
Percy N. Folsom, <i>col.</i>	Jennie Maud Thompson, <i>e.</i>
Fred W. Hall, <i>col.</i>	Arthur Fitts Wheat, <i>col.</i>
Irving L. Woodman, <i>c.</i>	

THREE YEARS' COURSE.

Charles Joseph Adams, <i>c.</i>	Carrie Ella Head, <i>c.</i>
Annie L. Blonquest, <i>e.</i>	Harry Taylor Lovering, <i>c.</i>
Ellen H. Burke, <i>c.</i>	Jennie May Morse, <i>c.</i>
Harriet Laura Garmon, <i>e.</i>	Winthrop Parker, <i>e.</i>
Grace Lee Smith, <i>c.</i>	

TO RECEIVE A TWO YEARS' CERTIFICATE.

Edith R. Mears.

*C indicates Classical Course. Col. indicates College Course.
E indicates English Course.*

X. — WINNERS OF CLARKE PRIZES

FOR EXCELLENCE IN ELOCUTION AT CONTEST, JANUARY 29, 1890.

Myra Shepard, \$13.	Jennie E. Patch, 5.
Edgar E. Farmer, \$11.	Grace A. Phillips, \$5.
Mabelle Boshier, \$9.	Blanche M. Folsom, \$5.
Charles Robie, \$7.	

(P)

XI. — ORGANIZATION, 1891.

SCHOOL COMMITTEE.

EDGAR J. KNOWLTON, MAYOR, *ex officio*, *Chairman*.
EDSON S. HEATH.

President of the Common Council, *ex officio*.

- Ward 1. — Charles H. Manning.
Charles D. Sumner.
- Ward 2. — William H. Morrison.
George H. Stearns.
- Ward 3. — George D. Towne.
Louis E. Phelps.
- Ward 4. — Stephen B. Stearns.
Edwin L. Richardson.
- Ward 5. — James P. Slattery.
William J. Sughrue.
- Ward 6. — Frank T. E. Richardson.
George W. Dearborn.
- Ward 7. — Marshall P. Hall.
Edward B. Woodbury.
- Ward 8. — William K. Robbins.
Luther C. Baldwin.

VICE-CHAIRMAN OF THE BOARD.

MARSHALL P. HALL.

CLERK OF THE BOARD.

EDWARD B. WOODBURY.

SUPERINTENDENT OF PUBLIC INSTRUCTION.

WILLIAM E. BUCK.

TRUANT OFFICER.

SAMUEL BROOKS.

STANDING COMMITTEES.

Finance. — The Mayor, Messrs. Heath, Hall, Woodbury, and F. T. E. Richardson.

Salaries. — Messrs. Woodbury, Robbins, and Slattery.

Repairs, Furniture, and Supplies. — Messrs. Manning, S. B. Stearns, and Sumner.

Text-Books, Apparatus, and Studies. — Messrs. Hall, Baldwin, and G. H. Stearns.

Drawing. — Messrs. Baldwin, Hall, and Phelps.

Music. — Messrs. F. T. E. Richardson, Phelps, and Morrison.

Fuel and Heating. — Mr. G. H. Stearns, The Mayor, Messrs. Heath, Manning, and Dearborn.

Examination of Teachers. — Messrs. Robbins, Morrison, and Towne.

Attendance. — Messrs. E. L. Richardson, S. B. Stearns, and Sughrue.

Health. — Messrs. Towne, Slattery, and Sumner.

SUB-COMMITTEES.

High School. — Messrs. Manning, Hall, Morrison, S. B. Stearns, Robbins, and Towne.

Franklin-street School. — Messrs. Woodbury, Sumner, and Baldwin.

Spring-street and Lowell-street Schools. — Messrs. Towne, Slattery, and Sumner.

Lincoln-street School. — Messrs. S. B. Stearns, F. T. E. Richardson, and E. L. Richardson.

*Ash-street School.** — Messrs. Phelps, Towne, and Hall.

Webster-street and Blodget-street Schools. — Messrs. G. H. Stearns, Morrison, and Woodbury.

Bakersville School. — Messrs. Morrison, F. T. E. Richardson, and Woodbury.

Varney School. — Messrs. Baldwin, S. B. Stearns, and Phelps.

Training School and Wilson Hill School. — Messrs. Hall, Robbins, and Phelps.

* Also of any others that may be organized on Bridge street.

Main-street and South Main-street Schools. — Messrs. Robbins, Baldwin, and Dearborn.

Amoskeag and Stark District Schools. — Messrs. Sumner, Dearborn, and Sughrue.

Hallsville and Youngsville Schools. — Messrs. Dearborn, Manning, and Sughrue.

Goffe's Falls and Harvey District Schools. — Messrs. Slattery, G. H. Stearns, and E. L. Richardson.

Webster's Mills and Mosquito Pond Schools. — Messrs. E. L. Richardson, Slattery, and Sughrue.

Evening Schools. — Messrs. F. T. E. Richardson, Manning, and G. H. Stearns.

XII. — LIST OF TEACHERS.

HIGH SCHOOL. — BEECH STREET.

Master. — Albert Somes.

Sub-Master. — George I. Hopkins.

Assistants. — William T. Abbott.

Lucretia E. Manahan.

Mary Stanton.

Nellie Pickering.

FRANKLIN-STREET SCHOOL.

Second Floor. — Grammar Grades.

Principal. — Charles W. Bickford.

Assistants. — Annie O. Heath.

Jennie M. Chandler.

Carrie E. Reid.

First Floor. — Lower Grades.

Higher Middle. — C. Augusta Abbott.

Lower Middle. — Hattie G. Flanders.

Higher Primary. — Nellie M. James.

Lower Primary. — Ella F. Sanborn.

SPRING-STREET SCHOOL.

Second Floor. — Mixed Grades.

Principal. — Lizzie P. Gove (4th Grammar division).
 Higher Middle. — Emma L. McLaren.

First Floor. — Lower Grades.

Lower Middle — Fannie D. Moulton.
 Higher Primary. — Nellie I. Sanderson.
 Lower Primary. — Lucia E. Esty.
 Lower Primary. — Maude L. Kent.

LINCOLN-STREET SCHOOL.

Second Floor. — Grammar Grades.

Principal. — Frank S. Sutcliffe.
 Assistants. — Annie W. Patten.
 Isabelle R. Daniels.
 Mary F. Barnes.
 Annie M. Sleeper. *

First Floor. — Lower Grades.

Grammar and Middle. — Nettie F. Ainsworth.
 Higher Middle. — Susie G. Woodman.
 Lower Middle. — Cora B. Gilford.
 Higher Primary. — Theodora Richardson.

ASH-STREET SCHOOL.

Second Floor. — Grammar Grades.

Principal. — Fred C. Baldwin.
 Assistants. — Gertrude F. How.
 Mary E. Bunton.
 Bertha L. Dean.

* Third floor.

First Floor. — Lower Grades.

Higher Middle. — Nancy S. Funton.

Lower Middle. — Kittie J. Ferren.

Higher Primary. — May F. Nutt.

Lower Primary. — Clara E. Woods.

Lower Primary. — Bertha A. Young.

WEBSTER-STREET SCHOOL.

Second Floor. — Grammar Grades.

Principal. — B. S. Andrew.

Assistants. — F. Maude Joy.

Mabel J. Brickett.

Alta C. Willand.

First Floor. — Lower Grades.

Mixed Middle. — Eva F. Tuson.

Mixed Primary. — Lettie M. Smith.

BAKERSVILLE SCHOOL.

Second Floor. — Mixed Grades.

Principal. — Lizzie A. Burns (grammar classes).

Higher Middle.* — Lelia A. Brooks.

Lower Middle. — Carrie E. Hoit.

First Floor. — Lower Grades.

Higher Primary. — S. Izetta Locke.

Lower Primary. — Edith M. Stebbins.

VARNEY SCHOOL.

Second Floor. — Grammar Grades.

Principal. — George Winch.

Assistant. — Barbara B. Joy.

*Third floor.

First Floor. — Mixed Grades.

Assistants. — Lillian Little (Third Division).
 Maria Dickey (Fourth Division).
 Grammar and Middle. — Ellen E. McKean.
 Mixed Middle. — Nettie C. Woodman.

TRAINING SCHOOL.

(Merrimack street, cor. Union.)

Principal. — Caroline E. Wing.

A lower middle school (No. 15), a higher (No. 21) and two lower (Nos. 22 and 23) primary schools, embracing first four years of school work. Principal is assisted by members of Training Class.

MAIN-STREET SCHOOL.

Second Floor. — Mixed Grades.

Principal. — Mary W. Mitchell, (Higher Middle).
 Lower Middle. — Millie S. Morse.
 Higher Primary. — Mary E. Brophy.

First Floor. — Primary Grades.

Mixed Primary. — Mary A. Clement.
 Mixed Primary. — Mary J. Walsh.
 Lower Primary. — Kate T. Clarke.
 Lower Primary. — Gertrude L. Southard.

BLODGET-STREET SCHOOL.

Second Floor.

Higher Primary. — Gertrude H. Brooks.

First Floor.

Lower Primary. — Georgianna Dow.

LOWELL-STREET SCHOOL.

Second Floor.

Used for evening schools.

First Floor.

Mixed Primary — Helen M. Morrill.

WILSON-HILL SCHOOL.

Lower Primary. — Huldah C. Graupner.

Lower Primary. — Ella Hope.

SOUTH MAIN-STREET SCHOOL.

Higher Primary. — Delle E. Haines.

Lower Primary. — Annie B. Goodwin.

PARTIALLY GRADED SCHOOLS.

Amoskeag. — Nettie B. Fogg.

Mixed Primary. — Mary G. Tynan.

Hallsville. — Ella F. Barker (higher classes).

Assistant. — Abbie R. West (lower classes).

UNGRADED SCHOOLS.

- No. 1. Stark. — Inez M. Warren.
 2. Goffe's Falls. — Georgie Kendrick.
 3. Harvey. — Emma J. Ela.
 4. Youngsville. — Mary A. Seavey.
 5. Webster's Mills. — Genevieve B. Knight.
 6. Mosquito Pond. — Olive A. Rowe.

SPECIAL TEACHERS.

Music. — J. J. Kimball.

Elocution. — J. J. Hayes.

(W)

JANITORS.

Webster-street and Blodget-street Schools.

Michael Finley, Pearl, near Chestnut.

High School, Ash-street, and Wilson-Hill Schools.

John S. Avery, 404 Merrimack.

Franklin-street and Lincoln-street Schools.

William Stevens, 418 Central.

Spring-street and Lowell-street Schools.

William H. Morrill, 45 Pennacook.

Training School.

Edward P. Cogswell, 218 Central.

Varney and Main-street Schools.

Samuel A. Hill, 86 School.

Bakersville School.

H. C. Dickey, Bakersville.

EVENING SCHOOLS.

(Open from October to March, five evenings each week.)

Lowell-street Building.

Three schools for boys.

Spring-street Building.

Two schools for girls.

School-street Building.

Two schools, one for each sex.

EVENING DRAWING SCHOOL.

Open from October to March.

Spring-street Building.

Machine-drawing classes meet on Monday and Thursday evenings.

Architectural-drawing classes meet on Tuesday and Friday evenings.

GRADUATES OF TRAINING SCHOOL NOT EMPLOYED AS REGULAR
TEACHERS FEB. 20, 1891.

Emma B. Abbott. *	Gertrude A. Burns. *
Alverta P. Barrett. *	Georgia M. Cheney. *
Emma M. Streeter. *	Mary G. Worthen. †
Mary E. Moulton. *	

OTHERS NEVER HERE EMPLOYED IN TEACHING, WHO HAVE CER-
TIFICATES OF QUALIFICATION.

Maud Bell, Fanny L. Perry, Fannie E. Smith, Martha T. Learnard, Lizzie M. McAfee, Hattie J. Hoyt, Evelina Davis, William S. Harris, Hattie N. Gage, Carrie L. Barker, George F. Drake, and Lucie G. Thompson. All certificated for grammar and lower grades.

Helen W. Poor, Belle F. Small, Hattie M. Ellis, Hattie E. Merrill, Alithea M. Hutchins, Amy B. Smith, Emma J. Cooper, and S. Louise Valentine. Certificated for middle and primary grades.

XIII. — SCHOOL YEAR, 1891.

Winter term of twelve weeks opens December 29, 1890, closes March 20. Vacation of three weeks.

Spring term of eleven weeks opens April 13, closes June 26. Rest of year not yet determined.

* Certificated for primary and middle grades.

† Certificated for grammar and lower grades.

REPORT
OF THE
BOARD OF HEALTH.

REPORT OF THE BOARD OF HEALTH.

To His Honor the Mayor :

The Board of Health submits its report for the year 1890.

At the beginning of the year the Board consisted of George C. Hoitt, M. D., chairman ; Joseph B. Sawyer, clerk, and William M. Parsons, M. D. On the first Monday in February the term of Dr. Hoitt expired, and he was re-appointed for three years. On the same day, as by law required, the Board was reorganized, the old officers being re-elected, and it has since remained unchanged.

EMPLOYEES.

Mr. Russell White has been employed throughout the year, and Mr. C. H. Reed about one month in July and August, in the ordinary work of the department. Mr. Patrick Dobbins, special police officer, was employed twenty-two days in watching an infected house and family.

EXPENDITURES.

The expenditures of the Board have been :

Pay of employés	\$679.00
Street-car fares	41.80
Stationery, postage, and express charges	18.24
Carriage hire	12.50
Printing	39.65
Traveling expenses	2.49
Fixtures . . . . .	.90
Assistance in burying dead animals	10.00
Analysis of water	28.65

Special police	\$38.50
Cleaning vault of shoe shop, 1888	42.50
Posting regulations	2.75
Examination of Lake Massabesic	23.50
	<hr/>
	\$940.48

To this amount seven dollars may be added, that being the amount of two bills approved by the Board in the preceding year, but which laid over in the hands of the auditor, and were included in the January draft.

The salaries of the members of the Board have been charged to this account, making the whole expenditures of the health department \$1,547.48.

In the summer of 1888 the contents of a large privy-vault at the shoe shop in Hallsville overflowed, ran into the highway, and became a public nuisance. The proper parties were notified to empty the vault, but they refused or neglected to do so, whereupon the Board proceeded to abate the nuisance by having the vault emptied. A suit to recover the cost of the work was commenced, and was to have been tried at the last September term of court, but it was settled or compromised in some manner without the consent of this Board.

WORK OF THE INSPECTOR.

Houses placarded for infectious diseases :

Scarlet fever	63
Diphtheria	41
Measles	298
	<hr/>
	402

In a large part of these cases it has been necessary to notify school teachers and employers of the existence of the disease ; also it is necessary to make a second visit to the house for the purpose of removing the placard after the receipt of the doctor's certificate that the danger of infection has passed.

Houses containing cases of typhoid fever visited	36
Privy-vaults inspected after being cleaned :	
Cleaned by A. McDougall	23
“ T. Shea	773
“ T. McKenna	592
	<hr/>
	1,388
Dead animals buried :	
Swine	6
Horses	20
Dogs	37
Cats, hens, and skunk	23
	<hr/>
	86
Other nuisances found and abated	351

SLAUGHTER HOUSE AT BAKERSVILLE.

In August last a complaint was made by Mr. N. S. Burns and others, residents of Bakersville, of a nuisance caused by the slaughtering and rendering works of the Manchester Beef Co., and a public hearing was given on the subject of the complaint. The hearing occupied two half-days. Many witnesses were examined, the works were repeatedly visited by the Board and by its individual members, and all practicable means were used to arrive at the truth in the case. It appeared that earlier in the season the establishment had been a nuisance, but that the work was then being carried on by the use of improved methods and apparatus by which the bad smells and noises were to a great extent obviated. The decision was that the works did not then create a nuisance of such a character as to require their stoppage or removal.

The establishment has since been visited occasionally by members of the Board, and has always been found clean and free from anything which could be considered a nuisance injurious to the public health.

TUBERCULOSIS.

The duty of guarding against the spread of contagious diseases among domestic animals is by statute laid on the Mayor and Aldermen, but as tuberculosis is so closely related to the public health of mankind it becomes the duty of the Board of Health to take cognizance of it also.

Last autumn the disease was found or suspected in the herd at the farm of the State Industrial School in this city. The Mayor and Mr. Ray, the superintendent, thereupon employed F. J. Smith, V. S., of Rochester, to examine the herd. Two members of this Board were present by request of the Mayor and assisted in the examination. The herd consisted of twenty-seven animals, all of which were condemned and killed, and in every case the diagnosis of Dr. Smith was fully confirmed by post mortem examination.

The flesh of all the animals was condemned and buried by order of the Board, thus making sure that it would not be bought ostensibly for the rendering shop, but really for the market.

The affair created a great excitement, and the most absurd rumors found circulation and credence; but when, a few days afterwards, one or two animals belonging to other herds were condemned by Dr. Smith, and on post mortem examination showed only very equivocal indications of the disease, the pendulum of popular rumor swung equally suddenly and absurdly to the opposite extreme, and an unwarranted feeling of security against this insidious and dangerous disease now pervades the community. The foremost sanitarians and biologists in the world, together with the great majority of observant physicians, are agreed that tuberculosis is the same disease in man and in beast, and is communicable.

CONTAGIOUS DISEASES.

The following table gives the number of cases of contagious diseases reported to the Board in each month, also the number of deaths which have resulted therefrom.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.	Deaths.
Diphtheria	0	5	17	6	5	3	2	1	2	0	0	0	41	9
Scarlet fever.....	7	22	11	2	3	1	1	2	0	2	5	7	63	3
Typhoid fever.....	2	0	0	0	4	0	2	3	8	4	2	11	36	17
Measles.....	65	59	105	55	2	2	8	1	0	1	0	0	298	6

The epidemic of measles began in the fall of 1889, there having been one case in October, ten in November, and thirty-one in December of that year. The table indicates that about two per cent of the cases of that disease have been fatal; but this is misleading, because while the return of deaths is complete that of cases is not so. Many cases of measles to which no doctor is called do not come to the knowledge of this Board. The same is true, although perhaps to a less extent, of scarlet fever. The law does not, as it should, require householders to report cases of contagious disease. The fatalities in scarlet fever have been less than five per cent, while in diphtheria they have been twenty-two per cent, and in typhoid fever forty-seven per cent of the number of cases. Small-pox has been absent since 1885. Influenza or *grippe* prevailed extensively in January, and to some extent in the following months. Some statistics gathered at the close of January showed that in a population of 13,823 persons employed in some of the principal mills, shops, and other establishments of the city, 4,969 had during the month been absent from work one or more days on the plea of sickness. This indicates that one third of the whole population suffered in that month from the epidemic. Information from the schools, both public and private, points to the same conclusion.

TABLE. — *Continued.*

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Decline.....			1										1
Diarrhea.....							1		1		1		3
" chronic.....	1	2	1										4
" infantile.....								1					1
" inflammatory.....								1					1
Diabetes.....	1				1				1	2			5
Diphtheria.....				3	4	2							9
Dropsy.....												2	2
" acute.....										1			1
Dysentery.....						1	1	1	2			1	6
Dyspepsia.....													1
" chronic.....								1					1
Enteritis.....								1	1			1	3
" acute.....													1
Epilepsy.....			1								1		2
Exposure.....							1						1
Fever, brain.....									1	2			3
" gastric.....	1										1		2
" scarlet.....		3											3
" typhoid.....	2				1		1	2	3		3	5	17
Grippe.....	10	2	3							3			18
Gall-stones.....										1			1
Gastritis.....		1					1		1			1	4
Gangrene, senile.....						1							1
Headache.....				1						1			2
Heart disease.....	5	2	2	3	1	1	1	4	3	5	2		29
" failure.....	2		2	1							1	1	7
" valvular disease.....	2		1	1								1	5
" fatty degeneration.....				1	1								2
Hemorrhage.....					1								1
" cerebral.....											1		1
Hepatitis.....	1	1											2
Hernia.....					1								1
" strangulated.....				1						1			2
Neocolitis.....							1						1
Inanition.....			1	1		2			1	1	2		8
Infanticide.....			1										1
Influenza.....	1	1											2
Insanity.....									1				1
Kidneys, disease.....		1	1										2
" congestion.....			1										1
" inflammation.....												1	1
Leucocythemia.....		1											1
Liver, disease.....				2				1					5
Lungs, congestion.....	3				2		1					4	10
" hemorrhage.....			1									1	2
" inflammation.....												1	1
Malaria.....		1	1			1							3
Marasmus.....			1		1	1	3	1	2	1			10
Measles.....	1	1	2	1				1					6
Meningitis.....	2	2				1	1		3		1	1	11
" acute.....							3						4
" cerebral.....					1	1							2
" chronic.....	1												1
" tubercular.....	1	1	1				1	1					5

TABLE. — *Concluded.*

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Metritis.....													1
Nephritis.....			1										1
“ acute.....						1			1				3
“ chronic.....								1					1
Nervous exhaustion.....	1												1
Neuralgia.....						1							1
Old age.....	6	1	1	3	2	3	2	1	1	1		2	23
Otitis media.....										1			1
Paralysis.....		2							1	4	1		8
Paresis.....							1						1
Peritonitis.....			1	1									2
Pleuro-pneumonia.....								1	1		1		3
Pneumonia.....	14	3	6	2	4	1	4	1	4			6	45
“ bronchial.....	1							1		1			3
“ catarrhal.....			1										1
“ typhoid.....	4	2								1	1		8
“ croupous.....												1	1
Pott's disease.....					1								1
Premature birth.....		1	3	3	2								10
Prostate, disease of.....					1								1
Pvæmia.....			1		1								3
Rheumatism.....	1		1							1			3
Rickets.....												1	1
Scirrhus of liver.....		1											1
“ of stomach.....		1											1
Scrofula.....								1					1
Septicæmia.....				2		1							3
Sore throat.....	1				1								2
Spine, disease of.....	1									1			2
Still-born.....	7	1	13	4	4	4	4	2	3	5	9	7	63
Stomach, inflammation.....												1	1
“ ulceration.....							1						1
Suicide by drowning.....					1								1
“ by opium.....		1											1
Teething.....	2	1				2	1	1	3	1			11
Tonsilitis.....			1										1
Tuberculosis.....			2										3
“ of kidneys.....								1					1
“ acute.....		1	1										2
Tumor.....				1									1
“ abdominal.....							2						2
“ of brain.....								1					1
“ fibroid.....										1			1
Ulcers, chronic.....		1											1
Uremia.....			1				1						2
Whooping cough.....	1						1	1	1				4
Wound, old.....					1								1
Cause not stated.....	5	2	5	6	1	9	21	3	4	4	3	3	66
Totals.....	137	56	83	56	52	61	126	106	93	72	51	71	964

CLASSIFICATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Zymotic.....	22	16	11	6	8	8	51	61	36	11	12	10	252
Constitutional.....	23	7	8	6	8	12	9	14	12	11	5	13	128
Local.....	61	26	32	25	21	15	28	20	27	29	18	31	333
Developmental.....	24	4	24	12	9	15	13	8	14	14	12	14	163
Violent.....	2	1	3	1	5	2	4	.....	.....	3	1	.....	22
Unclassified.....	5	2	5	6	1	9	21	3	4	4	3	3	66
Totals.....	137	56	83	56	52	61	126	106	93	72	51	71	964

The number of persons whose remains were brought from other places for interment here is as follows: January, 14; February, 10; March, 6; April, 7; May, 6; June, 9; July, 8; August, 14; September, 7; October, 12; November, 8; December, 7. Total, 108.

The number of deaths was larger than in any former year, being nine hundred and one against seven hundred and sixty-four for the previous year, and eight hundred and fifty-three in 1888. The rate per thousand of population was 20.49 against 17.90 the year before. The increase occurred mostly in the months of January, July, August, and September, and was due to an increase of bowel diseases in children in the warm months, and probably to the influenza or *grippe* which prevailed in January. During the year *grippe* and influenza are charged with twenty deaths, and they may have added malignity to some other diseases. There was a noticeable increase in the number of deaths from heart diseases, bronchitis, and pneumonia. The number of deaths from consumption in January was twenty, against an average of about eight in former years, but the number for the whole year was not above the average.

The sixty-six deaths from causes not stated are mostly those of children less than one year of age. Probably a large part of these deaths were caused by diarrheal diseases, but as the regis-

tration law now stands and is administered, it appears to be no great obstacle to the hiding of a murder, either of infant or adult. It would seem reasonable that in this city the body of no human being should be buried until some competent medical man has given a certificate founded upon his own knowledge of the case, or on his belief after due investigation, as to the cause of death.

SOME COMPARISONS OF VITAL STATISTICS FOR THE LAST SIX YEARS.

	1885.	1886.	1887.	1888.	1889.	1890.
Population, revised estimate.....	37,884	39,032	40,215	41,433	42,689	43,983
Number of deaths, exclusive of still-births.....	733	735	798	833	764	901
Deaths per thousand of population.....	19.35	18.57	19.84	20.59	17.90	20.49
Deaths of children under 5 years.....	312	313	356	337	353	434
Ratio, deaths of children to total deaths, per cent.....	42.56	43.17	44.61	46.54	46.20	48.17
Deaths of children per thousand of population.....	8.24	8.02	8.85	9.58	8.27	9.87
Deaths from zymotic diseases.....	231	265	256	227	189	232
Deaths from zymotic diseases per thousand of population.....	6.10	5.25	6.37	5.48	4.66	5.72
Cholera infantum.....	89	115	148	115	86	144
Consumption.....	93	109	93	109	79	94
Croup.....	12	21	25	24	25	15
Diphtheria.....	18	9	17	30	23	9
Bronchitis, all forms.....	29	11	29	37	35	38
Pneumonia, all forms.....	42	26	39	45	38	58
Heart disease, all forms.....	40	37	45	23	47	43
Scarlet fever.....	5	0	4	1	5	3
Typhoid fever.....	20	12	17	12	16	17
Measles.....	36	5	8	9	4	6
Whooping-cough.....	11	3	1	5	6	4
Small-pox.....	3	0	0	0	0	0
Births reported.....	1,106	1,207	1,331	*880	*872	463
Births per thousand of population.....	29.19	30.92	34.59	20.03	20.42	
Marriages reported.....	404	451	473	439	506	

* The returns are manifestly incomplete.

The national census taken in June last showed the population of the city to be 43,983, and indicated an annual increase since 1880 of a little more than three per cent. This is slightly larger than the annual estimates of this Board for the past four years as given in the tables of comparisons in previous reports. In the preceding table these estimates have been revised in the light afforded by the census, and are believed to be substantially correct. It is gratifying to find the growth of the city outrunning our estimates. At present the increase is estimated at one hundred per month.

SANITARY NEEDS OF THE CITY.

A brief notice of some of the more obvious of these will close this report. Some of them are within the scope of the powers intrusted to this Board, and it will be our endeavor to meet them to the full extent of our ability with the limited means at our command. Others can only be secured by the action of other departments of the city government, and by enlightenment of the general public opinion.

1. We need the abolishment of a large number of privy-vaults and stable cellars situated in the compact part of the city.

2. A better way of disposing of the waste of the city. The swill is now carried away two miles from the City Hall by a contractor and fed to swine. The other rubbish is collected by the highway department and dumped into ravines and low places in proposed streets. These dumps are nearly as foul and evil-smelling as they were when the swill went into them. The work of the contractor has made but slight improvement in their character. The whole mass of rubbish should be burned in a furnace constructed for that purpose.

3. A frequent examination by a competent veterinary surgeon of all the cows from which milk is brought into the city, including their housing and feeding.

4. A more enlightened and vigorous public sentiment in regard to the protection of our water supply. The experience of other cities and the researches of scientific men admonish us that the apathy of our people in this regard is little short of criminal

negligence. The building of dwellings and boathouses with one end hanging out over the lake, and even in some cases wholly on piles standing in the water, should be stopped. The two uses of the lake as a place of summer resort and as a source of water supply are incompatible with each other. The city should at once acquire a belt of land at least one hundred and fifty feet wide, extending entirely around the lake, and on this belt no building, either permanent or temporary, for the housing of man or beast should be allowed.

5. Public baths, including an out-of-door place, under the care of a competent and reliable man, during the summer months, where the boys could learn to swim and could enjoy a bath in safety.

6. We need above all things of a sanitary nature the dispelling of that ignorance and apathy which tolerates filth and uncleanness in person and surroundings. When the community can be made to realize that filth and decay bear as close a relation to sickness as benzine and oily waste do to a fire, the battle will be more than half won.

Respectfully submitted.

GEORGE C. HOITT,
JOSEPH B. SAWYER,
WM. M. PARSONS,

Board of Health of Manchester.

January, 1891.

ELECTRIC LIGHTS, GAS LIGHTS, ETC.

ELECTRIC LIGHTS, GAS LIGHTS, AND OIL LAMPS.

- No. 1. Corner Cypress and Massabesic, arm.
 2. Massabesic-street watering trough, pole.
 3. Corner Park and Beacon, arm.
 4. Corner Central and Hall, arm.
 5. Corner Lake avenue and Massabesic, arm.
 6. Corner Wilson and Laurel, arm.
 7. Corner Merrimack and Hall, arm.
 8. Corner Manchester and Hall, arm.
 9. Corner Manchester and Wilson, arm.
 10. Corner Hanover and Ashland, arm.
 11. Corner Hanover and Hall, arm.
 12. Corner Hanover and Beacon, arm.
 13. Corner Concord and Ashland, arm.
 14. Corner Bridge and Hall, arm.
 15. Corner Myrtle and Russell, arm.
 16. Corner Pearl and Linden, arm.
 17. Corner Pearl and Russell, arm.
 18. Corner Bridge and Nashua, arm.
 19. Corner Nashua and High, arm.
 20. Corner Concord and Dutton, arm.
 21. Corner Amherst and Porter, arm.
 22. Corner Hanover and Lincoln, arm.
 23. Corner Manchester and Lincoln, arm.
 24. Corner Merrimack and Lincoln, arm.
 25. Corner Laurel and Lincoln, arm.
 26. Corner Central and Lincoln, arm.

- No. 27. Corner Lake avenue and Lincoln, arm.
28. Corner Spruce and Lincoln, arm.
29. Corner Spruce and Maple, arm.
30. Corner Lake avenue and Maple, arm.
31. Corner Central and Maple, arm.
32. Corner Merrimack and Maple, arm.
33. Corner Manchester and Maple, arm.
34. Corner Hanover and Maple, arm.
35. Corner Amherst and Maple, arm.
36. Corner Concord and Maple, arm.
37. Corner Lowell and Nashua, arm.
38. Corner Bridge and Maple, arm.
39. Corner Myrtle and Maple, arm.
40. Corner Orange and Ash, arm.
41. Corner Harrison and Beech, arm.
42. Corner Myrtle and Beech, arm.
43. Corner Pearl and Beech, arm.
44. Corner Bridge and Beech, arm.
45. Corner Lowell and Ash, arm.
46. Corner Amherst and Ash, arm.
47. Corner Lowell and Beech, arm.
48. Corner Concord and Walnut, arm.
49. Corner Amherst and Beech, arm.
50. Corner Hanover and Beech, arm.
51. Hanover Square, pole.
52. Corner Manchester and Beech, arm.
53. Corner Merrimack and Beech, arm.
54. Corner Laurel and Beech, arm.
55. Corner Central and Beech, arm.
56. Corner Lake avenue and Beech, arm.
57. Corner Spruce and Beech, arm.
58. Corner Cedar and Union, arm.
59. Corner Lake avenue and Union, arm.
60. Corner Central and Union, arm.
61. Corner Laurel and Union, arm.
62. Corner Merrimack and Union, arm.
63. Corner Manchester and Union, arm.

- No. 64. Corner Hanover and Union, arm.
65. Corner Amherst and Union, arm.
66. Corner Concord and Union, arm.
67. Corner Lowell and Walnut, arm.
68. Corner Lowell and Union, arm.
69. Corner High and Union, arm.
70. Corner Bridge and Union, arm.
71. Corner Bridge and Walnut, arm.
72. Corner Orange and Union, arm.
73. Corner Prospect and Union, arm.
74. Corner Brook and Union, arm.
75. Corner Pennacook and Union, arm.
76. Corner Webster and Pine, arm.
77. Corner North and Pine, pole.
78. Corner Sagamore and Pine, arm.
79. Corner Blodget and Pine, arm.
80. Corner Harrison and Hazel, arm.
81. Corner Prospect and Pine, arm.
82. Corner Myrtle and Pine, arm.
83. Corner Orange and Pine, arm.
84. Corner Pearl and Pine, arm.
85. Corner Bridge and Pine, arm.
86. Tremont Square, pole.
87. Corner High and Pine, arm.
88. Corner Lowell and Pine, arm.
89. Corner Concord and Pine, arm.
90. Corner Amherst and Pine, arm.
91. Corner Hanover and Pine, arm.
92. Corner Manchester and Pine, arm.
93. Corner Merrimack and Pine, arm.
94. Corner Laurel and Pine, arm.
95. Corner Central and Pine, arm.
96. Corner Lake avenue and Pine, arm.
97. Corner Cedar and Pine, arm.
98. Corner Auburn and Pine, arm.
99. Corner Cedar and Chestnut, arm.
100. Park Square, pole.

- No. 101. Corner Lake avenue and Chestnut, arm.
102. Corner Central and Chestnut, arm.
103. Merrimack Square, pole.
104. Corner Merrimack and Chestnut, arm.
105. Corner Manchester and Chestnut, arm.
106. Corner Hanover and Chestnut, arm.
107. Concord Square, east, pole.
108. Concord Square, west, pole.
109. Corner Chestnut and Concord B. S., arm.
110. Corner Chestnut and High, arm.
111. Corner Chestnut and Bridge, arm.
112. Corner Chestnut and Pearl, arm.
113. Corner Chestnut and Myrtle, arm.
114. Corner Chestnut and Harrison, arm.
115. Corner Chestnut and Brook, arm.
116. Corner Pennacook and Chestnut, pole.
117. Corner Salmon and Chestnut, pole.
118. Corner Webster and Chestnut, arm.
119. Corner Clarke and Elm, arm.
120. Corner Webster and Elm, arm.
121. Corner North and Elm, arm.
122. Corner Salmon and Elm, arm.
123. Corner Pennacook and Elm, arm.
124. Corner Brook and Elm, arm.
125. Corner Harrison and Elm, arm.
126. Langdon street, pole.
127. Corner Dean and Elm, arm.
128. Corner Prospect and Chestnut, arm.
129. Corner Orange and Elm, arm.
130. Corner Pearl and Elm, arm.
131. Elm East B. S., between Pearl and Bridge, arm.
132. Corner Bridge and Elm, arm.
133. Corner Washington and Church, arm.
134. Corner Birch and Lowell, arm.
135. Corner Lowell and Elm, arm.
136. Elm East B. S. between Lowell and Concord, arm.
137. Corner Water and Elm, arm.

- No. 138. Corner Vine and Concord, arm.
 139. Corner Vine and Amherst, arm.
 140. Corner Amherst and Elm, arm.
 141. Corner Mechanic and Elm West B. S., arm.
 142. Stark street, arm.
 143. Corner Market and Franklin, arm.
 144. Corner Market and Elm, arm.
 145. Corner Hanover and Elm East B. S., arm.
 146. Corner Elm and Manchester, arm.
 147. Corner Dean avenue and Elm West B. S., arm.
 148. Corner Elm and Merrimack, arm.
 149. Middle street.
 150. Corner Pleasant and Elm West B. S., arm.
 151. Merrimack Square, west, pole.
 152. Corner Elm and Central, arm.
 153. Corner Elm and Lake avenue, arm.
 154. Corner Elm and Spruce, arm.
 155. Beech and Cedar, pole.
 156. Corner Elm and Cedar, arm.
 157. Corner Franklin and Granite, arm.
 158. Corner Elm and Auburn, arm.
 159. Corner Elm and Green, arm.
 160. Corner Elm and Valley, arm.
 161. Bakersville watering trough, arm.
 162. Corner Summer and State, pole.
 163. Corner Granite and State, arm.
 164. Granite Bridge, east, pole.
 165. Corner Bedford and Granite, pole.
 166. Corner Canal and Granite, pole.
 167. Corner Depot and Canal, pole.
 168. Central between Franklin and Canal, pole.
 169. Corner Bedford and Central, arm.
 170. Corner Canal and Merrimack, arm.
 171. Corner Canal and Middle, arm.
 172. Corner Canal and Stark, arm.
 173. Corner Canal and Mechanic, arm.
 174. Corner Canal and Spring, arm.

- No. 175. Corner Canal and Bridge, arm.
- 176. McGregor Bridge, east, pole.
- 177. Corner Canal and Hollis, pole.
- 178. Corner Canal and Dean, pole.
- 179. Corner Canal and Langdon, arm.
- 180. Corner River road and North street, arm.
- 181. Amoskeag Bridge, east, arm.
- 182. Amoskeag Bridge, west, arm.
- 183. Amoskeag watering trough, pole.
- 184. Amoskeag brick store, pole.
- 185. Corner McGregor and Main, pole.
- 186. Corner McGregor and Bridge, pole.
- 187. McGregor Bridge, west, pole.
- 188. Corner Amory and Main, pole.
- 189. Corner Amory and Beauport, pole.
- 190. Corner Wayne and Beauport, pole.
- 191. Corner Marion and Main, pole.
- 192. Corner McGregor and Wayne, pole.
- 193. Corner McGregor and Putnam, arm.
- 194. Corner Sullivan and Main, pole.
- 195. Corner Beauport and Sullivan, pole.
- 196. Corner Main and Schuyler, pole.
- 197. Corner Wilton and Main, pole.
- 198. Corner Douglas and Main, arm.
- 199. Corner Douglas and Barr, arm.
- 200. Corner Granite and Green, arm.
- 201. Corner West and Granite, arm.
- 202. Corner Granite and Main, arm.
- 203. Corner Granite and Second, arm.
- 204. Granite Bridge, west, pole.
- 205. Corner School and River, arm.
- 206. Corner School and Third, arm.
- 207. Corner Second and Bath, pole.
- 208. Corner Ferry and River, arm.
- 209. Corner Ferry and Third, arm.
- 210. Corner Walker and Second, arm.
- 211. Corner Blaine and Third, arm.

- No. 212. Corner Clinton and Main, arm.
 213. Corner Walker and Main, arm.
 214. Corner Parker and West, arm.
 215. Corner Winter and Parker, arm.
 216. Corner Main and Mast, pole.
 217. Corner Main and Milford, arm.
 218. Corner Main and A, arm.
 219. Corner Carroll and Milford, arm.
 220. Corner Old Mast road and Mast, arm.
 221. Corner Hall and Amherst, arm.
 222. Corner Laurel and Maple, arm.
 223. Corner Central and Wilson, arm.
 224. Corner Harrison and Pine, arm.
 225. Corner Massabesic and Belmont, pole.
 226. Corner Union and Appleton, arm.
 227. Corner Elm and railroad crossing, pole.
 228. Corner Franklin and Pleasant, arm.
 229. Corner Elm and Appleton, arm.
 230. Corner Milford and Riddle, arm.
 231. Corner Nutt road and Portsmouth railroad, pole.
 232. Corner Lake avenue and Canton, pole.
 233. Corner Laurel and Hall, arm.
 234. Corner Beech and Brook, arm.
 235. Corner Kidder and Boyden, pole.
 236. Corner Myrtle and Walnut, arm.
 237. Bridge and Linden, arm.
 238. Corner Lowell and Ashland, arm.
 239. Corner Lowell and Belmont, arm.
 240. Corner Pearl and Union, arm.
 241. Corner Salmon and Union, pole.
 242. Water street, arm.
 243. Corner Arlington and Ashland, arm.
 244. Corner Orange and Oak, arm.
 245. Corner Prospect and Oak, arm.
 246. Corner Arlington and Russell, arm.
 247. Corner Gore and Walnut, arm.

248. Corner Laurel and Milton, arm.
249. Massabesic street — Hospital, pole.
250. Corner Lake avenue and Wilson, arm.
251. Corner Bridge and Ash, arm.
252. Hanover street, east, pole.
253. Corner Franklin and Depot, arm.
254. Corner Spruce and Union, arm.
255. Corner East High and Wilson road, pole.

GAS LIGHTS IN USE.

Appleton and Pine.
Clarke and Chestnut.
Clarke and River road.
Elm, near Ray brook.
Monroe street.
Appleton, West End.
Webster and River road.
Salmon and River road.
Salmon, between Elm and Canal.
Canal, near paper mill.
Blodget, between Elm and Chestnut.
Blodget and Chestnut.
Brook and Pine.
Prospect, between Elm and Chestnut.
Myrtle, between Elm and Chestnut.
Orange and Chestnut.
Orange, between Chestnut and Elm.
Bridge, between Chestnut and Elm.
Pearl and Walnut.
Orange and Walnut.
Orange and Beech.
Myrtle and Ash.
Pearl and Maple.
Arlington and Maple.

East High and Maple.
Lowell and South.
Lowell and Jane.
Amherst and Ashland.
Concord and Hall.
Lowell and Hall.
Concord and Belmont.
Amherst and Belmont.
Amherst and Beacon.
Lowell and Beacon.
East High and Belmont.
Prospect and Russell.
Harrison and Russell.
Harrison and Oak.
Harrison and Maple.
Harrison and Ash.
Prospect and Ash.
Prospect and Beech.
Prospect and Walnut.
Belmont and Central.
Maple and Cedar.
Beech and Auburn.
Willow and Merrill.
Two lights on South Elm.
Two lights on Hancock and River road.
Auburn and Franklin.
Three lights on State.
River street, near Turner Hall.
Milford and Bowman.
Mast and Bowman.
Dover and Clinton.
Dover and Granite.
Two lights on Hancock, West of River road.
Dover and Douglas.
Douglas, half way between Main and River streets.
Two lights on Pleasant, between Franklin and Canal.
Merrimack Common.

Two lights on Mechanic.
 Spring street.
 Hanover, near the old Post-office.
 Wilson and Merrimack.
 Manchester and Belmont.
 Hanover and Milton.
 Two lights on River road, between Hancock and Baker streets.
 Hanover and Belmont.

OIL LIGHTS IN USE.

Clarke and Union.
 Concord and Beacon.
 East High and Hall.
 Pearl and Linden.
 Canal, near Amoskeag bridge.
 Merrimack and Beacon.
 Hanover and Mammoth road.
 Lake avenue and Mammoth road.
 Elm and Shasta.
 Elm and Baker.
 Two lights on Baker.
 Douglas and West.
 Douglas and Quincy.
 Granite and Quincy.
 Mast road and Riddle.
 Carroll street.
 Bowman street.
 A and B streets.
 Light near the Huntress gardens.
 Mammoth road and Cohas avenue.
 “ “ and Island Pond road.
 “ “ and Cilley.
 “ “ and Young.
 “ “ and Candia road.
 Massabesic and Old Falls road.

Massabesic and Taylor.
 Belmont and Green.
 Belmont, at A. L. Walker's house.
 Belmont and Valley.
 Valley and Taylor.
 Valley and Cypress.
 Valley and Jewett.
 Cypress and Prout avenue.
 Jewett and Young.
 Young and Taylor.
 Three lights on River road south of Blue store.
 Three lights in Amoskeag.
 Ten lights in Goffe's Falls.
 Three lights in Youngsville.
 One light on Candia road, near Noah Reed's.
 One light on Candia road, near Walter Cody's house.
 One light junction Lake avenue and Hanover.
 One light on Island Pond road, Mill-Dam House.

ARTICLES OF AGREEMENT.

The Manchester Electric Light Company, a corporation duly established by law and doing business in Manchester, in the county of Hillsborough and State of New Hampshire, and the city of Manchester, a municipal corporation in said county and State, acting by its special committee duly authorized by the vote of the City Councils of said city, hereby agree as follows, to wit :

The said company, for the consideration hereinafter mentioned, agrees for itself, its successors and assigns, at its own expense, to provide, erect, and maintain one each at such points within the limits fixed by the vote of said committee, October 8, 1888, to wit : within a radius of one and one quarter miles from the city hall, as said committee shall designate, two hundred electric lights, to be arc lamps, of two thousand candle power each, French measurement ; to place such a part of said lamps on

posts, and such a part on mast-arms as said committee shall designate ; to keep the same lighted from sunset to sunrise upon every night of the year ; and to use in the maintenance of said lights the Thomson-Houston system of electric lighting.

The said city agrees to pay monthly for the said two hundred lights provided, erected, and maintained, as above, the sum of thirty-nine cents per night each, for all lamps placed on posts, and the sum of forty-three cents per night each, for all lamps placed on mast-arms, each lamp to be accepted and pay for the same to begin as soon as it is placed in position and lighted ; but in case any lamp for any cause shall fail to be lighted, upon such nights and parts of nights as it shall remain unlighted, a proportionate reduction in the price shall be made.

The said city further agrees that said company may erect and maintain through and over the streets of said city, such lines, not nearer than twenty-five feet to the ground, as may be found necessary for the convenient and economical maintenance of said lights ; and said company agrees that the furnishings shall be of first-class line construction, and the mast-arms shall be such as to reach the middle line of the streets over which they shall hang, and so permit said city to use the topmost arms of such poles or posts as said company shall erect for its system of fire-alarm telegraph. And it is hereby mutually agreed that all damages or injuries to said lights or lines arising from fire or other unavoidable casualty, shall be repaired by said company with reasonable diligence, and shall not vitiate this contract ; and that all damages to any person or property caused by the poles, lamps, wire, or other apparatus used by said company, or by the use of the same, occasioned by the negligence or want of care of said company, or its servants or agents, shall be borne by said company ; that all liability because of damages from the maintenance of the system of lighting used by said company shall rest upon said company ; that this contract shall terminate in three years from its date ; that at the termination of this contract all property used by said company under this contract shall remain and be the property of said company, its successors, or assigns ; that in case during the period for which this contract shall remain in force

said city shall desire more electric lights, said company will furnish the same at a price not exceeding the price fixed for the two hundred lights provided for in the foregoing ; that said city shall have the benefit of any new improvement which may be introduced, thereby reducing the expense of lighting and maintaining said lights ; and that said company shall furnish a bond signed by three sureties satisfactory to the aforesaid committee in the penal sum of ten thousand dollars, conditioned by the faithful performance of all the terms of this contract.

In witness of which we have set our hands this twenty-sixth day of December, 1888.

[L. S.] MANCHESTER ELECTRIC LIGHT CO.,
By ANDREW ROBESON, *Treasurer.*

THE CITY OF MANCHESTER,
By LEONARD P. REYNOLDS,
H. D. GORDON,
JOHN M. KENDALL,
BENJ. FREEMAN,
C. M. WOODBURY,
JOHN F. BOHAN,
GUY F. WHITTEN.
Special Committee.

BOND.

KNOW ALL MEN BY THESE PRESENTS,

That we, the Manchester Electric Light Company, a corporation duly established by law and doing business in Manchester, in the county of Hillsborough and State of New Hampshire, as principal, and A. Elliott, N. W. Ellis, W. G. Africa as sureties, are holden and stand firmly bound unto the city of Manchester, a municipal corporation in said county and State, in the sum of ten thousand dollars, to the payment of which to the said city of Manchester, or its successors or assigns, we hereby severally bind ourselves, our heirs, executors, and administrators, and the successors of said Electric Light Company.

The condition of the obligation is such that if the said Manchester Electric Light Company shall well and faithfully perform all and singular the terms of a certain contract of even date herewith, between the said company and the city of Manchester, for the provision, erection, and maintenance of two hundred electric lights for the term of three years from its date, under certain conditions and for a certain price expressed therein, then this obligation shall be void, otherwise it shall be and remain in full force and virtue.

In witness whereof we hereunto set our hands and seal this 26th day of December, A. D. 1888.

[L. S.]

MANCHESTER ELECTRIC LIGHT CO.,

By ANDREW ROPESON, *Treasurer*.

A. ELLIOTT.

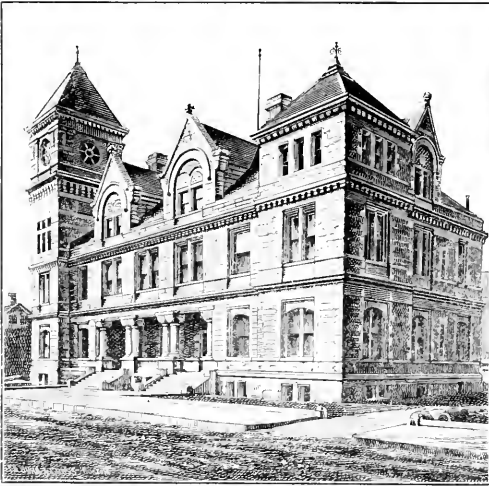
N. W. ELLIS.

W. G. AFRICA.

Signed and sealed in presence of

PERCY H. EVERETT.

J. H. DEARBORN.



37. GOVERNMENT BUILDING.

MANCHESTER. N. H.

STATISTICS
OF
WEALTH, DEBT, AND TAXATION.

REVENUE.—Continued.

YEAR.	City scales.	Street department teams.	Fire department teams.	Tuition.	Old buildings and land sold.	On account of McGregor bridge.	Macadamizing the streets.	Miscellaneous.	Total of ordinary receipts.
1870	\$230.00	\$2,910.62		\$250.38	\$1,340.17	\$7,000.00		\$269.56	\$105,400.45
1871	178.81	2,492.69		341.92				1,638.75	471,595.67
1872	25.00	2,535.25		213.37	502.37	5,067.25		1,361.82	480,157.92
1873		3,425.13		176.12	276.80			1,774.03	511,536.51
1874	112.00	4,253.00		199.75	1,862.92			613.60	561,030.00
1875		4,525.00		162.00				493.08	531,078.71
1876		3,629.75		105.35	1,387.50			120.12	542,983.87
1877		4,622.24		198.10			\$783.68	288.69	575,279.86
1878		2,701.22	\$4,410.32	81.48	1,754.13			2,924.31	666,755.63
1879		2,660.70	4,881.31	216.60	6,745.75			474.84	700,062.11

REVENUE.—Continued.

YEAR.	RECEIPTS UNDER SPECIAL HEADINGS.				Total receipts.
	LOANS.		Premium on judgments bonds sold.	Judgments recovered.	
	Temporary.	Bonded.			
1880	\$65,000.00				\$64,033.02
1881	75,000.00	\$60,000.00			606,595.67
1882	136,000.00				616,157.92
1883	140,000.00				651,536.51
1884	269,000.00	2,200.00			772,230.00
1885	42,000.00	156,300.00	\$6,225.00		736,206.71
1886	200,000.00	1,950.00		600.00	752,143.87
1887	100,000.00	101,850.00			777,129.86
1888	140,000.00	2,000.00			808,755.63
1889	100,000.00	1,650.00			801,712.11

EXPENSES OF MUNICIPAL MANAGEMENT AND CONSTRUCTION.

Year.	HIGHWAYS.					BRIDGES.			SEWERS, DRAINS.				
	Sprink-ling.	Mainte-nance.	New high-ways.	Land damage.	Paving.	Macadam-izing.	Grading for con-crete.	Scaven-ger terms.	Terms.	Mainte-nance.	Construc-tion.	Mainte-nance.	Construc-tion.
1870	\$2,024.46	\$20,747.28	\$3,482.30	\$597.25	\$11,064.51	\$2,263.02	\$4,212.25	.....	\$14,755.72	\$2,583.12	\$32,088.76	\$8,000.27	\$11,910.45
1871	1,973.15	21,078.25	2,777.24	920.75	8,306.75	2,871.37	3,303.97	.....	1,570.50	1,810.78	25,499.81	9,621.71	15,329.41
1872	2,329.77	15,754.20	4,685.31	316.82	8,517.26	4,192.04	7,703.14	22,812.00	6,393.91	1,676.40	3,284.42	24,348.15	.....
1873	4,473.82	21,011.34	10,132.20	1,456.58	8,409.08	5,653.56	3,586.37	3,944.26	8,251.25	4,374.29	14.47	21,190.01	.....
1874	4,555.25	21,732.15	10,290.02	1,171.15	8,032.74	4,216.22	3,519.63	4,366.51	5,884.19	11,470.48	4,452.92	15,063.41	.....
1875	4,367.82	18,474.40	6,177.84	573.65	4,169.30	5,104.32	3,752.31	6,223.15	7,124.57	4,239.64	.....	8,757.91	19,365.90
1876	5,513.91	16,965.37	14,247.56	404.34	5,882.11	8,845.35	4,551.90	7,319.44	8,574.24	1,229.25	.....	15,522.17	28,496.98
1877	4,436.71	18,496.84	8,680.82	598.06	4,148.86	11,835.49	5,305.21	8,524.13	7,355.43	2,226.72	.....	18,648.97	1,244.95
1878	4,896.79	18,320.41	5,911.27	34.38	3,521.82	15,054.37	4,553.17	9,481.75	4,820.86	4,636.80	.....	29,618.46	1,505.75
1879	6,271.87	20,522.50	8,432.13	182.26	6,474.27	22,430.87	4,553.58	13,715.40	5,280.59	9,727.67	.....	27,513.75	700.00

EXPENSES OF MUNICIPAL MANAGEMENT AND CONSTRUCTION. — Continued.

Year.	SCHOOLS.				SCHOOL BUILDINGS.		CITY LIBRARY.		FIRE DEPARTMENT.			
	Street lighting.	Teachers' salaries and even- ing schools.	Furni- ture and supplies.	Books and station- ery.	Care of rooms.	Other expenses.	Mainte- nance.	Construc- tion.	Mainte- nance.	Construc- tion.	Hydrant service.	
1880.	\$5,362.35	\$37,686.65	\$383.08	\$140.00	\$2,239.73	\$4,419.34	\$5,038.10	\$6,000.00	\$1,632.26	\$1,000.00	\$11,282.60	\$18,330.00
1881.	5,901.51	38,878.15	745.24	599.89	2,494.89	4,612.98	1,959.72	4,724.30	1,635.48	1,000.00	15,381.09	19,320.00
1882.	5,933.30	41,170.61	1,443.35	515.42	2,574.33	5,485.83	7,863.20	18,550.26	2,115.72	1,000.00	16,632.19	20,670.00
1883.	8,394.15	41,634.38	888.34	725.62	2,868.47	5,045.16	3,736.23	12,511.62	1,628.18	1,000.00	18,373.06	20,700.00
1884.	10,473.35	40,834.80	1,036.00	586.86	3,019.16	4,187.48	6,621.24	6,600.00	2,233.57	1,000.00	19,421.52	19,150.00
1885.	13,331.98	41,295.07	854.03	484.37	3,108.96	4,904.33	3,236.83	6,016.70	2,371.25	1,000.00	24,162.84	19,962.50
1886.	15,873.06	43,058.45	1,154.28	436.73	3,219.74	5,772.00	3,693.41	.....	.....	1,000.00	28,470.55	20,387.50
1887.	13,970.98	45,058.66	837.75	565.63	3,215.19	6,337.83	3,742.21	.....	.....	1,000.00	34,981.52	21,100.00
1888.	15,763.29	45,219.87	1,221.56	551.68	3,258.36	5,791.41	4,135.75	.....	.....	1,000.00	37,928.58	21,100.00
1889.	31,041.43	46,466.46	1,093.07	492.81	3,345.94	5,697.64	3,755.73	6,981.40	2,164.07	1,000.00	40,976.37	17,330.00

EXPENSES OF MUNICIPAL MANAGEMENT AND CONSTRUCTION. — Continued.

Year.	PUBLIC BUILDINGS.		COMMONS.		CEMETERIES.				WATER WORKS.		Civil engineer's department.	Salaries of city officials.		
	Mainte- nance.	Construc- tion.	Police mainte- nance.	Mainte- nance.	Pine Grove.		Valley.		Amos- keag.	Mainte- nance.			Construc- tion.	Mainte- nance.
					Mainte- nance.	Land pur- chased.	Mainte- nance.	Tomb.						
1880.	\$1,433.31	.....	\$19,072.50	\$2,591.83	\$2,782.60	.....	.....	.....	.....	.....	.....	\$487.60	\$11,802.34
1881.	3,123.52	\$3,355.17	20,116.76	491.30	1,486.15	.....	.....	.....	.....	.....	.....	746.29	10,923.59
1882.	4,895.55	15,062.51	20,806.03	1,397.36	3,557.84	.....	.....	.....	.....	.....	.....	1,183.04	11,960.79
1883.	5,522.79	4,731.34	23,580.68	2,316.85	4,284.49	.....	.....	.....	.....	.....	.....	1,283.17	11,419.12
1884.	3,326.57	23,072.32	26,080.73	4,881.46	8,987.65	\$3,000.00	.....	.....	.....	.....	.....	1,433.31	14,112.91
1885.	4,425.14	10,025.81	28,172.92	2,949.82	7,213.85	.....	.....	.....	.....	.....	.....	1,389.33	12,839.22
1886.	4,144.62	.....	29,491.90	2,656.97	6,339.83	.....	.....	.....	.....	.....	.....	1,551.00	13,659.49
1887.	2,130.25	.....	28,827.05	3,492.34	4,833.06	.....	.....	.....	.....	.....	.....	2,452.47	14,826.99
1888.	2,108.55	.....	30,721.29	3,673.97	4,587.58	.....	.....	.....	.....	.....	.....	2,676.80	14,826.99
1889.	3,389.00	127.00	35,463.95	4,144.77	7,203.59	.....	.....	.....	.....	.....	.....	2,971.06	14,328.14

EXPENSES OF MUNICIPAL MANAGEMENT AND CONSTRUCTION. — *Continued.*

YEAR.	City Hall.	Printing and stationery.	Health department.	Miscellaneous or incidental expenses.	Land purchased.	INTEREST.			POOR.	
						On water bonds.	On city bonds.	On other loans.	City farm.	Paupers of the farm.
1880.....	\$3,187.84	\$2,107.45	\$80.00	\$4,987.74	.....	\$36,207.00	\$18,889.00	\$1,024.44	\$4,075.79	\$6,980.88
1881.....	5,115.44	2,028.20	1,034.51	9,754.26	\$75.00	37,283.00	16,773.00	2,089.17	9,131.54	7,592.77
1882.....	4,267.17	1,845.89	.....	9,995.94	7,246.70	36,099.00	19,022.00	2,921.64	5,464.57	6,245.67
1883.....	7,686.28	1,905.51	17.50	12,386.37	6,135.00	36,168.00	18,509.00	6,547.84	6,194.01	4,898.73
1884.....	7,096.69	2,792.60	35.75	10,046.04	.....	35,808.00	15,539.00	3,701.42	9,518.63	3,852.24
1885.....	3,014.37	1,548.34	2,789.15	6,135.09	27,420.65	36,093.00	16,289.35	5,085.36	6,035.44	4,878.47
1886.....	1,856.17	2,237.53	673.14	10,009.52	.....	35,892.00	18,478.12	1,766.33	6,326.04	6,231.13
1887.....	2,387.45	2,819.88	1,447.40	7,821.16	129.38	35,099.00	18,220.49	944.79	5,835.50	7,437.59
1888.....	3,855.41	1,714.40	1,714.40	10,983.67	852.00	33,772.00	17,401.87	2,076.39	6,635.30	8,322.92
1889.....	5,147.88	2,189.47	1,100.79	9,337.15	.....	34,186.00	16,344.75	838.39	7,296.03	8,169.33

EXPENSES OF MUNICIPAL MANAGEMENT AND CONSTRUCTION. — *Continued.*

Year.	PAYMENTS MADE UNDER SPECIAL HEADINGS.												
	Discoun- t on taxes.	Abate- ment on taxes.	Total ordi- nary ex- penses.	Balance on hand after pay- ment of ordinary expen- ditures.	Claims and judg- ments re- covered es. the city.	Legal ex- penses.	Tempo- rary.	Bonds.	State taxes.	County taxes.	Total ex- penditures under spe- cial head- ings.	Grand to- tal of ex- penditure.	Balance of cash on hand Decem- ber 31.
1880.	\$5,974.77	\$2,022.40	\$559,113.31	\$45,987.14	\$2,433.51	\$1,743.40	\$50,000.00	\$19,500.00	\$41,000.00	\$39,451.20	\$153,031.11	\$513,074.42	\$9,041.40
1881.	7,309.15	2,702.22	379,584.32	92,011.35	1,755.16	151.94	120,000.00	16,400.00	41,000.00	31,323.37	240,663.47	590,277.79	16,317.88
1882.	7,351.50	2,172.07	407,921.16	72,233.76	3,872.98	1,191.47	82,000.00	25,000.00	41,000.00	31,323.37	188,047.82	595,971.98	20,182.91
1883.	7,603.46	3,323.71	402,379.79	109,136.72	1,841.89	6,175.47	121,000.00	13,000.00	41,000.00	31,323.37	214,370.75	616,730.52	34,783.89
1884.	8,261.20	3,008.91	433,035.40	127,991.60	4,800.29	1,297.71	160,000.00	71,500.00	48,400.00	35,237.74	321,289.74	734,335.14	17,894.86
1885.	7,988.50	1,918.72	439,175.39	91,362.72	6,465.70	1,161.16	161,000.00	18,500.00	48,400.00	35,237.74	370,708.60	769,834.59	26,372.12
1886.	8,106.72	2,818.07	439,005.45	83,320.44	4,830.85	916.86	175,000.00	6,000.00	48,401.06	35,237.74	370,389.45	729,452.88	22,600.99
1887.	8,305.82	2,411.22	429,344.67	145,335.19	1,638.65	733.46	125,000.00	101,800.00	48,404.00	35,237.74	312,131.55	742,158.52	34,971.34
1888.	10,282.19	3,021.88	472,102.77	194,652.86	8,119.45	1,330.74	140,000.00	36,200.00	63,435.00	40,508.54	285,623.71	761,736.18	47,020.15
1889.	10,330.20	2,798.74	511,574.15	188,487.26	5,675.80	1,639.29	100,000.00	500.00	63,435.00	40,508.54	216,288.63	721,802.78	79,819.33

* Deficit.

STATEMENT OF BONDED DEBT, CITY OF MANCHESTER, N. H.

FROM JANUARY 1, 1880, TO DECEMBER 31, 1889.

Year.	Six per cent to build water-works* ter-works*	Re-funded at four per cent, wa- ter-works*	Five per cent, cemetry bonds,†	Six per cent to build sewers,	Six per cent to fund war expenses,	Six per cent to fund debts,‡	Six per cent to aid Sunkook Valley road,§	Four per cent to build McGregor bridge,||	Four per cent to fund debts,¶	Total.	Amount of six per cent bonds due and paid.	Total amount of bonded debt December 31.
1880.	\$600,000.00	.....	.....	\$22,000.00	\$137,500.00	\$130,000.00	\$29,500.00	\$60,000.00	.....	\$929,000.00	\$19,500.00	\$909,500.00
1881.	600,000.00	.....	.....	24,000.00	137,500.00	120,000.00	28,000.00	60,000.00	.....	969,500.00	18,000.00	951,500.00
1882.	600,000.00	.....	.....	16,000.00	137,500.00	120,000.00	18,000.00	60,000.00	.....	951,500.00	24,000.00	927,500.00
1883.	600,000.00	.....	.....	16,000.00	115,000.00	120,000.00	16,500.00	60,000.00	.....	927,500.00	13,000.00	914,500.00
1884.	600,000.00	.....	\$2,200.00	8,000.00	115,000.00	120,000.00	11,500.00	60,000.00	.....	916,700.00	71,500.00	1,000,200.00
1885.	600,000.00	.....	3,500.00	8,000.00	45,000.00	120,000.00	10,000.00	60,000.00	\$155,000.00	1,001,500.00	19,500.00	982,000.00
1886.	600,000.00	.....	5,450.00	.....	35,000.00	120,000.00	8,500.00	60,000.00	155,000.00	983,950.00	5,000.00	978,950.00
1887.	500,000.00	100,000.00	7,300.00	.....	35,000.00	120,000.00	3,500.00	60,000.00	155,000.00	980,800.00	3,500.00	977,300.00
1888.	500,000.00	100,000.00	9,300.00	.....	35,000.00	120,000.00	.....	60,000.00	155,000.00	979,300.00	35,000.00	944,300.00
1889.	500,000.00	100,000.00	10,950.00	.....	35,000.00	120,000.00	.....	60,000.00	155,000.00	945,950.00	.....	945,950.00

* \$400,000 water bonds, issued January 1, 1872; \$100,000 of these bonds re-funded January 1, 1887.3
 † \$200,000 water bonds, issued July 1, 1874.
 ‡ The city has \$50,000 of Sunkook Valley Railroad stock in its assets, dividends on which are not payable until April 9, 1912.
 § Bridge bonds issued July 1, 1881.
 ¶ \$155,000 bonds issued April 1, 1885.
 †† \$70,000 bonds to fund debt, issued October 31, 1863; \$50,000 bonds to fund debt, issued July 1, 1864.
 ††† \$2,200 cemetry bonds, issued in 1884, and other additional bonds each year. The city guarantees the perpetual care of lots in the cemeteries. Bonds payable July 1, 1913.
 †††† January 1, 1890. No sinking fund established, no floating debts due.

ASSETS.

Year.	Cash in treasury Dec. 31.	Taxes in arrears.	REAL PROPERTY.				PERSONAL PROPERTY.				Total.
			Water-works.	School-houses and lots.	Engine-houses and lots.	Other public buildings and lots.	Fire engines, hose and other property.	Furniture, maps, &c. in school-houses.	Personal and other property.	Fire-alarm telegraph.	
1870	\$25,324.82	\$745,716.98	\$46,300.00	\$184,450.00	\$32,283.00	\$6,175.00	\$251,131.00	\$20,000.00	\$1,589,586.80	
1871	17,740.67	773,841.37	46,300.00	187,805.17	32,336.50	6,175.00	251,131.00	20,130.00	1,631,860.19	
1872	20,185.94	788,437.75	51,544.06	210,114.41	33,716.50	6,508.82	361,833.53	20,130.00	1,812,139.41	
1873	34,785.99	813,980.20	53,780.00	214,846.35	35,155.00	6,508.72	394,833.53	21,555.00	1,894,325.74	
1874	17,894.86	824,980.29	56,912.35	251,218.67	35,163.00	6,853.82	406,286.45	21,670.00	1,949,414.34	
1875	26,372.12	851,322.80	56,912.35	288,665.13	35,306.50	6,853.82	428,352.35	27,475.00	2,036,405.60	
1876	22,690.99	882,472.45	68,534.44	288,665.13	37,394.75	6,853.82	463,869.03	28,450.00	2,132,171.49	
1877	34,971.34	901,274.13	82,433.82	288,665.13	42,619.75	6,853.82	475,653.98	32,115.00	2,197,621.47	
1878	47,029.15	934,007.44	98,702.90	289,626.71	56,827.50	6,853.82	490,653.98	32,490.00	2,283,006.34	
1879	73,843.33	954,239.53	106,871.01	289,753.71	56,844.00	7,875.00	505,753.98	32,530.00	2,373,424.01	

INVENTORY OF ASSETS.

SCHOOLHOUSES.

Inventory of Schoolhouses.	Amount.	Furniture, charts, maps, etc.
High-school house and lot.....	\$50,000.00	\$2,000.00
Franklin-street house and lot.....	20,000.00	400.00
Spring-street house and lot.....	16,000.00	400.00
Lincoln-street house and lot.....	50,600.00	400.00
Ash-street house and lot.....	58,000.00	400.00
Main-street house and lot.....	23,000.00	606.00
Webster-street house and lot.....	17,500.00	350.00
Blodget-street house and lot.....	3,500.00	150.00
Bridge-street house and lot.....	4,000.00	.....
Lowell-street house and lot.....	7,000.00	400.00
Merrimack-street house and lot.....	15,985.00	550.00
Wilson Hill house and lot.....	3,300.00	100.00
School-street house and lot.....	5,000.00	425.00
South Main-street house and lot.....	2,800.00	200.00
Bakersville house and lot.....	15,000.00	600.00
Stark District house and lot.....	3,000.00	150.00
Amoskeag house and lot.....	3,700.00	125.00
Goffe's Falls house and lot.....	3,600.00	100.00
Harvey District house and lot.....	2,500.00	125.00
Webster District house and lot.....	600.00	50.00
Hallsville house and lot.....	3,500.00	125.00
Youngsville house and lot.....	1,400.00	125.00
Mosquito Pond District house and lot.....	1,200.00	100.00
Park-street house and lot.....	8,500.00	.....
Varney-school lot.....	6,750.00	.....
Total	\$325,835.00	\$7,875.00

OTHER PUBLIC BUILDINGS AND LOTS.

City library building and lot.....	\$41,000.00
City Hall building and lot.....	60,000.00
City farm and permanent improvements.....	34,000.00
Court house and lot.....	51,000.00
Battery building on Manchester street.....	18,000.00
Police station on Manchester street.....	43,303.77
City yard.....	30,000.00
Gravel lot, Belmont street.....	1,200.00
Gravel lots, ward 8.....	400.00
Gravel lots, Bakersville.....	700.00
Gravel lots, district 8.....	150.00
City tombs (2).....	10,000.00
Total.....	\$289,753.77

ENGINE-HOUSES.

Engine-house, stable and land, Vine street.....	\$47,000.00
Engine-house, North Main street, West Manchester.....	20,000.00
Engine-house, cottage, and lot, Lake avenue, corner Massabe- sic street.....	19,371.00
Engine-house and lot, Webster street, corner Chestnut street..	13,000.00
Hose-house, cottage, and lot, Maple street.....	5,000.00
Engine-house, Clinton street, West Manchester.....	2,500.00
Total.....	\$106,871.00

PERSONAL AND OTHER PROPERTY.

Stock, tools, furniture, etc., at city farm.....	\$8,882.19
Safes, furniture, etc., at City Hall.....	3,000.00
Street lanterns, posts, and pipes.....	10,000.00
Water pipes, wagons, and apparatus for watering streets.....	3,000.00
Teams and tools for streets.....	20,000.00
Stock in Suncook Valley Railroad (face value).....	50,000.00
Fountains (5) and water troughs (31) on streets and commons..	3,500.00
Soldiers' monument.....	25,000.00
Permanent inclosure of commons.....	19,200.00
Amoskeag bridge over Merrimack river.....	25,000.00
McGregor " " " ".....	90,000.00
Granite " " " ".....	25,000.00
South Main-street bridge, over Piscataquog river.....	10,000.00
Print-works bridge, over lower canal.....	5,000.00
Expended on construction of sewers.....	205,171.79
Two bridges in district No. 9.....	2,000.00
One bridge at Goffe's Falls.....	1,000.00
Total.....	\$505,753.98

The city has the following property devoted and restricted to the uses indicated by the names below. If it was unrestricted and salable at market prices, it could be fairly estimated at the values attached :

Valley cemetery.....	\$200,000.00
Pine Grove cemetery.....	40,000.00
Amoskeag cemetery.....	4,000.00
Stark monument lot.....	1,000.00
Concord common.....	200,000.00
Tremont common.....	40,000.00
Hanover common.....	100,000.00
Park common.....	60,000.00
Merrimack common.....	200,000.00
Total.....	\$845,000.00

STATEMENT IN RELATION TO THE BONDED DEBT OF THE CITY OF MANCHESTER, N. H.

Date of issue.	Description.	Number.	Per cent.	Amount.	Total.	Date when the principal is payable.	INTEREST.	
							When payable.	Where payable.
Jan. 1, 1872	Water Bonds.	60	100	\$6,000		Jan. 1, 1892	6	At Treasurer's Office, Manchester, N. H.
1, 1872	" "	62	500	31,000		1, 1892	6	" "
1, 1872	" "	63	1,000	63,000	\$100,000	1, 1892	6	" "
1, 1872	" "	60	100	\$6,000		1, 1897	6	" "
1, 1872	" "	62	500	31,000		1, 1897	6	" "
1, 1872	" "	63	1,000	63,000	100,000	1, 1897	6	" "
1, 1872	" "	60	100	\$6,000		1, 1902	6	" "
1, 1872	" "	62	500	31,000		1, 1902	6	" "
1, 1872	" "	63	1,000	63,000	100,000	1, 1902	6	" "
July 1, 1874	" "	50	100	\$5,000		July 1, 1890	6	Suffolk Bank, Boston, Mass.
1, 1874	" "	50	500	25,000		1, 1890	6	" "
1, 1874	" "	70	1,000	70,000	100,000	1, 1890	6	" "
1, 1874	" "	50	100	\$5,000		July 1, 1895	6	" "
1, 1874	" "	50	500	25,000		1, 1895	6	" "
1, 1874	" "	70	1,000	70,000	100,000	1, 1895	6	" "
Jan. 1, 1887	Re-funded	100	1,000	\$100,000	100,000	Jan. 1, 1907	4	" "
Oct. 31, 1863	City Bonds.	10	100	\$1,000	100,000	Nov. 1, 1893	6	" "
31, 1863	" "	10	200	2,000		1, 1893	6	" "
31, 1863	" "	16	500	8,000		1, 1893	6	" "
31, 1863	" "	21	1,000	21,000		1, 1893	6	" "
31, 1863	" "	10	2,000	20,000		1, 1893	6	" "
31, 1863	" "	6	3,000	18,000	70,000	1, 1893	6	" "

July 1, 1864	City Bonds.	50	1,000	8,50,000	July 1, 1894	6	"	"	"
July 1, 1881	Bridge Bonds.	15	100	\$1,500	1, 1911	4	"	"	"
1, 1881	"	33	500	16,500	1, 1911	4	"	"	"
1, 1881	"	39	1,000	39,000	1, 1911	4	"	"	"
April 1, 1885	City Bonds.	50	1,000	\$50,000	April 1, 1905	4	"	"	"
1, 1885	"	50	1,000	50,000	1, 1907	4	"	"	"
1, 1885	"	50	1,000	50,000	1, 1909	4	"	"	"
1, 1885	"	5	1,000	5,000	1, 1911	4	"	"	"
				\$435,000					

Suffolk Bank, Boston, Mass.

REMARKS. — The city guarantees the perpetual care of lots in the cemeteries of the city to parties who pay \$100 and upward. There are \$10,950 in cemetery bonds, so-called, in the hands of the city treasurer, which are not included in the \$935,000. (They are additions.) The water-works are valued, at a low estimate, to be worth \$1,500,000. The city owns other property to the extent of \$1,000,000, consisting of schoolhouses, court house, city hall building, engine-houses, city library building, etc.

Total amount of bonded debt	\$935,000
Net indebtedness for water purposes	600,000

Net debt after deducting water debt	\$335,000
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No indebtedness existing in other forms than are herein stated.

The assessed value of personal property	\$4,603,634
The assessed value of real estate	\$18,359,156

Total value for taxation	\$22,962,790
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Tax rate, 1.9 per cent on a hundred.

Per cent of net indebtedness (excluding debt for water purposes) to assessed valuation	1.459
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Per cent of net indebtedness (including debt for water purposes) to assessed valuation	4.071
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As shown in the assessors' books for the year 1889.

Present population, estimated	42,000
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Population last census, 1880	32,458
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No issue of bonds has ever been contested.

The interest on the debt has always been promptly paid at maturity.

None of the bonds are stated specifically as being payable in gold.

None of the bonds can be called for redemption.

The power of the city to borrow money in relation to the water-works is limited to the sum of \$600,000 by Section 6, Chapter 70, New Hampshire Laws of 1871, entitled "An Act to enable the City of Manchester to establish water-works."

The receipts and expenditures of the water-works, as stated in the Annual Report of the Board of Water Commissioners for the year 1889, were as follows :

Balance unexpended December 31, 1888	\$36,126.74
Receipts from all sources in 1889	86,700.46
Total	\$122,827.20
Appropriated to pay interest	\$36,000.00
Expended on construction	30,232.09
Repairs and running expenses	17,005.90
Total expenditures	83,237.96
Balance unexpended	\$39,589.21

Notwithstanding a heavy reduction in the water rates of the past year over those of the preceding, the gross receipts of the year 1889 show an increase over the previous year of \$1,056.64.

The foregoing statements I certify to be, to the best of my knowledge and belief, true and correct.

JAMES B. STRAW, *City Auditor.*

Date of report, April 22, 1890.

STATEMENT OF ANNUAL INTEREST CHARGE FOR THE BONDED DEBT OF THE CITY OF
 MANCHESTER, N. H.
 FROM 1880 TO 1889 INCLUSIVE.

Year.	Water bonds.	Five per cent interest on cemetery bonds.	Six per cent interest on bonds to build sewers.	Six per cent to fund war expenses.	Six per cent to fund debts.	Six per cent to aid Suffolk Railroad.	Four per cent to build McGregor Bridge.	Four per cent fund debts.	Total of annual interest.
1880.....	\$36,000.00	.....	\$1,680.00	\$8,250.00	\$7,200.00	\$1,732.50	\$1,200.00	.....	\$54,862.50
1881.....	36,000.00	.....	1,200.00	8,250.00	7,200.00	1,430.00	2,400.00	.....	55,280.00
1882.....	36,000.00	.....	900.00	7,575.00	7,200.00	1,042.50	2,400.00	.....	55,177.50
1883.....	36,000.00	.....	720.00	6,900.00	7,200.00	865.00	2,400.00	.....	54,985.00
1884.....	36,000.00	\$55.00	480.00	3,750.00	7,200.00	672.50	2,400.00	\$4,650.00	50,537.50
1885.....	36,000.00	142.50	240.00	2,250.00	7,200.00	562.50	2,400.00	6,200.00	53,445.00
1886.....	36,000.00	223.75	.....	2,100.00	7,200.00	385.00	2,400.00	6,200.00	54,308.75
1887.....	34,000.00	318.75	.....	2,100.00	7,200.00	122.50	2,400.00	6,200.00	50,215.00
1888.....	34,000.00	415.00	.....	2,100.00	7,200.00	.....	2,400.00	6,200.00	50,215.00
1889.....	34,000.00	506.25	.....	2,100.00	7,200.00	.....	2,400.00	6,200.00	50,306.25

LETTER OF THE CITY AUDITOR TO THE SUPER-
INTENDENT OF CENSUS.

MANCHESTER, N. H., June 13, 1890.

*To Hon. Robert P. Porter, Superintendent of Census, Wash-
ington, D. C. :*

SIR, — I send herewith a compilation of the receipts and expenditures of the city of Manchester, N. H., from the year 1880 to 1889 inclusive. Perhaps a few words of explanation in regard to this compilation may not be considered unnecessary. In making this compilation, as you will perceive by reference to the Treasurer's accounts printed in the City Reports, I have in every instance deducted from the amount of cash on hand as stated in the said city reports, the amount of bills unpaid. This I have done because this amount of bills unpaid is a part of the expenditures of the previous year, and is so placed in the city reports simply because the last draft which the city treasurer receives in the latter part of December, he has not had time to disburse ; and it was the only way in which I could make out the analysis of the receipts and expenditures of the city. I have also added to the receipts and expenditures, the county tax each year. This county tax forms a part of the percentage on a hundred which is assessed and raised upon the property of the citizens of Manchester, and really should appear in the treasurer's statement, but the law holds the tax collector responsible to the county for that amount, so the custom has been for the tax collector to take his receipt from the county treasurer, and so the amount does not appear in the city treasurer's report. In the city report you will find the account headed "County Taxes," which shows the whole matter. Now then, if you take the amount of expenditures for any one year, say the year 1889, you will find in the treasurer's statement for that year, the amount of expenditures \$718,442.40 ; deduct from that amount the amount of unpaid bills, January 1, 1889, \$37,088.16, and the sum total will be \$681,354.24 ; add to this the county tax, which is for that year \$40,508.54, and you will find the sum to be \$721,862.78, which

agrees with the grand total of all expenditures as shown in the compilation herewith sent you. The same statement holds true in regard to each and every year. Take the receipts of the year 1889, as shown in the treasurer's account in the city report, and they amount to \$798,291.73; you take from that the unpaid bills, January 1, 1889, \$37,088.16, which makes the sum \$761,203.57; add to that the county tax of \$40,508.54 and you have the amount of \$801,712.11, which agrees with the total receipts of that year, as shown in the compilation above referred to.

Under the head of "Sewers and Drains," especially in the years 1882, 1883, and possibly 1887, 1888, 1889, the expenses of construction of sewers and drains is mixed with the maintenance, and I was unable to entirely separate it. The whole compilation represents the best I have been able to do under all circumstances of the case, and I trust may prove satisfactory to you. I have placed the amount of claims and judgments recovered against the city, with the legal expenses relating to sundry suits against the city, under the clause, "Payments made under special headings, as they arise from circumstances beyond the control of the City Council." The water-works, the cash in the treasury, the uncollected taxes, the schoolhouses and lots, engine-houses and apparatus, amounting to \$1,537,111.32, may be fairly considered as available assets.

I am, very respectfully, your obedient servant,

JAMES B. STRAW,

City Auditor.

P. S. — In making this compilation for various years, "incidental expenses" have been analyzed and the expenditures therein contained put under their proper headings. This work required the examination of a large amount of vouchers in the hands of the city treasurer, and out of these "incidental expenses" were obtained the cost of a police station, three or four engine-houses, etc. This letter is intended to be partially explanatory of the process which the city auditor has found it necessary to use in order to get the proper showing for the city.

J. B. S.

REPORT OF THE CITY AUDITOR.

REPORT OF THE CITY AUDITOR.

To the City Councils :

GENTLEMEN, — The City Auditor herewith submits to your honorable body his first annual report. The duties of the office were quite fully outlined in the communication made to the City Councils February 4, 1890, and have been still further exemplified by subsequent communications, many of which are printed in the annual city report for 1890.

It is the intention of the Auditor to perform the duties of his office in accordance with the requirements of the law, relying upon the intelligence and virtue of the City Councils, and the people, to sustain that position.

Early in the year it was apparent that the labor required to meet the demands made upon this office could not be met by one man, and the Mayor, upon the request of the Auditor, employed Allan E. Herrick as clerk. No better selection could be made. Mr. Herrick has proved himself to be industrious and efficient ; his knowledge as a type-writer, stenographer, and engraver has been of special benefit to the city in many ways. The Auditor recommends that his salary be increased.

WORK OF THE OFFICE.

There have been made during the year two examinations of the Treasurer's accounts, two examinations of the City Clerk's accounts, annual examination and settlement with the Tax Collector, annual examination of water-works accounts, annual examination of accounts of Superintendent of Pine Grove cemetery, annual examination of accounts of Superintendent of Val-

ley cemetery, annual examination of accounts of Superintendent of City Farm, monthly examination of accounts of weigher at city scales, quarterly examination of accounts of City Marshal, semi-annual examination of accounts of Clerk of Police Court.

About 6,000 bills against the city have been examined and certified as "correct." All the pay-rolls for the thirteen highway districts, for the schools, for the fire department, the water-works, the police department, the cemeteries, and the city officials, have been examined and certified to.

Twelve monthly drafts, amounting in the aggregate to \$890,-311.34, have been drawn on the city treasury.

Accounts have been kept with all of the appropriations, with the Treasurer, and with the Tax Collector.

Special examinations of the accounts of J. S. Paige, weigher at the city scales, and ex-City Marshal Melvin Jenkins, were made, reports of which have been presented to and acted upon by the City Councils.

Three hundred and forty letters, fifteen communications to the City Councils, twenty orders and ordinances, and eight resolutions to be presented by committees for the action of the City Councils, and many bills due to the city from various parties have been prepared, type-written, and forwarded to their destinations.

Some type-writing has been done for the City Clerk, the Treasurer, the Superintendent of the public schools, and the City Engineer.

The book of deeds and mortgages, 183 in number, showing the real estate transactions to which the city of Manchester is a party, has been recopied by the type-writer, and an improved index added.

Blank forms have been formulated to meet the requirements in relation to diseased cattle, imposed upon the Mayor and Aldermen by chapter 93 of the New Hampshire Laws of 1889.

A statement of the wealth, debt, and taxation of the city from January 1, 1880, to January 1, 1890, with many other documents, has been compiled at the request of the census depart-

ment, and under the order of the Mayor. The city report for 1890 is the compilation of the Auditor as required by the ordinance.

IMPROVEMENTS SUGGESTED.

The growth of the city within the last fifteen years has been very large, and with it has come a large increase of the business of city officials. The City Clerk's office has been overburdened with the duties thrust upon it. Cribbed, cabined, and confined in a room not much, if any, larger than a box stall, he has done his business as well as the disadvantages under which he has labored would permit. The first relief to this abused official came in the appointment of an Auditor and the transfer of some of the clerk's business to the auditor's office. The second relief should come in the removal of the office to more commodious quarters, the transfer of all fees connected therewith to the city treasury, an increase in the present salary of the City Clerk from \$900.00 to not less than \$1,500.00, and the employment of an assistant clerk who should also be a type-writer, and might act as clerk to several of the prominent committees. In short, the Clerk's office should be thoroughly re-organized. The collection of dog licenses, sewer licenses, and all collections except those of fees, could more properly be made the work of the Tax Collector or the City Treasurer.

Within the time mentioned the business of the Treasurer has increased fourfold. That honest and efficient city official, who left his right arm at Cold Harbor, but fortunately saved his head and left arm for still further public uses, could be greatly assisted if by the addition of a few hundred dollars to the present salary of the Deputy Collector of Taxes, he, the Treasurer, could monopolize the spare time of the said deputy in the service of the Treasury. With these few changes, the collection of licenses, etc., could then be fairly imposed upon the Treasurer's office; the number of offices where public dues are payable would be lessened, and in the case of sickness, or disability from any cause, of the Treasurer or City Clerk, the public business would not be im-

peded. These changes in relation to fees and collections would require the action of the Legislature.

WATER-WORKS.

The books of the water-works department are kept in a model manner, and it is a satisfaction to the Auditor to examine such orderly and accurate accounts.

POLICE DEPARTMENT.

The accounts of the police department for the last two years have been well and correctly kept.

CITY SCALES.

The present weigher at the city scales, William Bailey, is an honest and efficient man, and his certificates can be relied upon as correct. The fees for weighing were established many years ago and need to be revised. This is an important office, as many of the articles purchased by the city are there weighed and the payments made in accordance therewith. The salary of the weigher should be increased. Under a proper adjustment of the fees the income from the city scales would probably be enlarged. It should be stated in all contracts, verbal or written, made by the city for fuel, hay, etc., that the certificate of the weigher at the city scales should in all cases be affixed to the bill.

CITY FARM AND CEMETERIES.

The accounts at the city farm are well kept.

The accounts kept by the Superintendent of the Pine Grove cemetery are correct and the method is in process of improvement.

TAX COLLECTOR.

The accounts are well kept and the business of the office thoroughly done.

STREET AND SEWER DEPARTMENT.

The clerical methods and accounts in Districts No. 2 and No. 3 have been much improved since January 1, 1890. The employ-

ment of a clerk and giving to him the facilities necessary for the transaction of his business have aided much in that direction. The system of orders and rules for goods purchased, insisted upon by the Auditor and cheerfully complied with by the Superintendent, has tended still further to throw impediments in the way of dishonest claimants.

District No. 10. — The Superintendent of this district, which is rapidly growing in importance, has readily complied with the requirements of this office. His accounts are few and his returns are promptly made.

Other Districts. — Many of the outlying districts are "pocket boroughs," a very large share of the money appropriated finding a lodgment, perhaps necessarily, in the purse of the Superintendent, or that of his family or friends. In the opinion of the Auditor, the street and sewer department, expending during the year 1890, including the lighting of streets, the sum of \$177,940.37, can never be successfully and properly managed until it is consolidated and placed under the control of one man, chosen solely on account of his practical qualifications and scientific attainments.

EXPENDITURES.

The expenditures relating to the work of the Auditor have been as follows :

Services.

Salary of auditor	\$980.50
" clerk	406.32
	<hr/>
	\$1,386.82

Furnishings for Office.

Type-writer and table, roll-top desk, bill-case, mimeograph, self-inking stamp, letter press, etc.	344.51
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Stationery.

Blank bills, blanks of all kinds, blank books, laws, etc.	338.06
	<hr/>
Total	\$2,069.19

The Auditor acknowledges his indebtedness to the Mayor and many members of the late City Councils for their constant support, and to the heads of departments for their courtesy and kindness. Knowing that the ideal is always in advance of the realization, he submits himself to the considerate judgment of his fellow citizens.

JAMES B. STRAW,
City Auditor.

To the City Councils of the City of Manchester, N. H. :

GENTLEMEN,— I have examined the accounts of Sylvanus B. Putnam, City Treasurer, for the year ending December 31, 1890, and find proper vouchers for all payments, and all receipts are duly accounted for.

The net cash on hand January 1, 1890	.	.	\$79,849.33
Receipts during the year	.	.	890,014.03
			<u>\$969,863.36</u>
Amount of drafts during the year	.	.	\$890,311.34
Net cash on hand December 31, 1890	.	.	79,552.02
			<u>\$969,863.36</u>

The cash balance taken December 31, 1890, I find to be as follows: :

Deposited in Suffolk National Bank	.	.	\$8,930.00
First National Bank	.	.	18,994.39
Second National Bank	.	.	7,295.79
Manchester National Bank	.	.	27,798.67
Amoskeag National Bank	.	.	11,651.58
Merchants National Bank	.	.	19,736.73
Office safe	.	.	40,187.83
			<u>\$134,594.99</u>
Gross amount of cash on hand	.	.	\$134,594.99
Deduct amount of bills unpaid	.	.	55,042.97
			<u>\$79,552.02</u>
Net cash on hand December 31, 1890	.	.	\$79,552.02

The accounts for the year ending December 31, 1890, of the City Clerk, of the Superintendent of Schools, of the Tax Collector, of the Water-Works, of the City Marshal, of the Clerk of

the Police Court, of the Superintendent of the Pine Grove Cemetery, of the Superintendent of the Valley Cemetery, of the Treasurer of the Cemetery Trustees, of the Superintendent of the City Farm, and of the Weighers at the City Scales, have each and all been carefully examined and the income from these sources as shown by the said books (excepting J. S. Paige) has been deposited with the City Treasurer and appears in his accounts.

Respectfully submitted.

JAMES B. STRAW,
City Auditor.

Dr. Sylvanus B. Putnam, Treasurer, in account with the

To cash on hand January 1, 1890	\$109,311.83
temporary loan	100,000.00
bonds sold to N. H. Harris & Co.	100,000.00
premium on bonds sold	5,670.00
insurance tax	3,752.25
railroad tax	21,443.72
savings bank tax	68,392.94
literary fund	4,504.70
board of paupers off farm	2,201.57
L. M. Streeter, city farm	2,432.75
Joseph B. Clark estate	12.64
Barton & Co. (overdraft)	15.93
J. B. Baril (overdraft)	1.00
city teams, District No. 2	2,700.69
George W. Weeks	30.00
Warren Harvey	30.00
S. G. Reed (overdraft)	1.00
Joseph A. Poor (overdraft)	3.00
sewer licenses	1,013.40
New Hampshire Rubber Co. (overdraft)	8.00
A. N. Clapp (overdraft)	11.66
Charles O. Phelps (broken pipe)	3.90
Manchester Water-Works, for labor	20.25
Richard Dobbins, for labor	58.05
W. H. Plumer, for brick	14.40
J. B. Varick Co., goods returned	15.09
old bridge plank sold	138.88
Amoskeag Manufactur'g Co., painting bridge	295.21
West'rn Union Telegraph and Telephone Co.	2,500.00
E. P. Johnson Co., chopping block	1.50
Timothy Shea, land sold	312.50
Edward Wagner, land sold	1,375.00
F. O. Clement, old iron	1.79
<i>Amount carried forward</i>	<u>\$426,273.65</u>

*City of Manchester, year ending December 31, 1890.**Cr.*

By unpaid bills, January 1, 1890	\$29,462.50
funded debt	99,900.00
temporary loan	100,000.00
coupons, water bonds	34,177.00
coupons, city bonds	15,771.00
coupons, cemetery bonds	567.50
interest	555.57
paupers off farm	4,336.46
city farm	7,467.30
city teams	5,246.19
highway district No. 1	199.25
“ “ “ 2 and 3	11,807.87
“ “ “ 4	499.75
“ “ “ 5	486.75
“ “ “ 6	498.80
“ “ “ 7	1,308.03
“ “ “ 8	792.73
“ “ “ 9	536.81
“ “ “ 10	3,357.01
“ “ “ 11	1,064.50
“ “ “ 12	299.80
“ “ “ 13	194.15
new highways	9,575.61
land taken for new highways	358.16
watering streets	7,593.00
lighting streets	41,099.64
paving streets	6,633.75
macadamizing	20,925.52
grading for concrete	5,089.86
sewers and drains	39,297.97
commons	4,214.03
bridges	3,879.68
incidental expenses	17,441.26
<i>Amount carried forward</i>	<u>\$474,637.45</u>

Dr. Sylvanus B. Putnam, Treasurer, in account with the

	<i>Amount brought forward</i>	. . . . .	\$426,273.65
To	C. W. Strain, land sold	. . . . .	\$50.00
	Matthew McDonald	. . . . .	10.00
	Pine Grove Cemetery, lots sold	. . . . .	2,600.00
	B. A. Stearns, superintendent	. . . . .	1,783.37
	George A. Durgin (overdraft)	. . . . .	40.00
	C. H. G. Foss, superintendent	. . . . .	1,300.00
	fire department	. . . . .	4,699.47
	John Leonard (overdraft)	. . . . .	6.00
	D. B. Varney (overdraft)	. . . . .	20.00
	police department	. . . . .	6,939.57
	City Hall	. . . . .	2,410.00
	John P. Mullen	. . . . .	4.00
	water-works	. . . . .	90,463.37
	P. Harrington	. . . . .	30.00
	George H. Dudley	. . . . .	40.00
	Joseph Gillott & Son	. . . . .	7.55
	dog licenses	. . . . .	1,361.16
	billiard tables	. . . . .	37.50
	old bills unclaimed	. . . . .	678.95
	show licenses	. . . . .	190.50
	rent of tenements	. . . . .	461.63
	city scales	. . . . .	502.31
	tuition	. . . . .	428.75
	E. W. Brigham	. . . . .	38.50
	milk licenses	. . . . .	49.50
	trustees cemetery fund	. . . . .	2,900.00
	Manchester Shoe Manufacturing Co.	. . . . .	21.25
	James Bros. (overdraft)	. . . . .	2.00
	interest on taxes	. . . . .	342.44
	taxes for the year 1885	. . . . .	14.72
	“ “ 1886	. . . . .	12.34
	“ “ 1887	. . . . .	17.00
	<i>Amount carried forward</i>	. . . . .	\$543,735.53

*City of Manchester, year ending December 31, 1890.**Cr.*

	<i>Amount brought forward</i>	. . . . .	\$474,637.45
By	Pine Grove cemetery	. . . . .	\$5,017.54
	Valley cemetery	. . . . .	2,789.86
	fire department	. . . . .	41,409.53
	fire-alarm telegraph	. . . . .	1,585.43
	hydrant service	. . . . .	18,080.00
	police department	. . . . .	37,096.16
	City Hall	. . . . .	2,741.79
	printing and stationery	. . . . .	2,058.18
	Repairs of buildings	. . . . .	4,443.87
	city library	. . . . .	4,239.88
	abatement of taxes	. . . . .	2,999.39
	discount on taxes	. . . . .	11,265.25
	state tax	. . . . .	63,435.00
	county tax	. . . . .	46,032.47
	city officers' salaries	. . . . .	16,509.41
	Water-Works	. . . . .	33,403.69
	decoration of soldiers' graves	. . . . .	374.27
	Stark monument square	. . . . .	8,060.75
	Women's Aid and Relief Hospital	. . . . .	400.00
	W. C. T. U. Mercy Home	. . . . .	500.00
	Elliot Hospital, two free beds	. . . . .	600.00
	repairs of schoolhouses	. . . . .	4,119.76
	new schoolhouse	. . . . .	43,704.11
	fuel	. . . . .	3,703.32
	furniture and supplies	. . . . .	575.15
	books and stationery	. . . . .	141.35
	printing and advertising	. . . . .	389.05
	contingent expenses	. . . . .	830.10
	care of rooms	. . . . .	3,376.75
	mechanical drawing school	. . . . .	694.89
	teachers' salaries	. . . . .	45,404.87
	evening school	. . . . .	1,254.81
	<i>Amount carried forward</i>	. . . . .	\$881,874.08

Dr. Sylvanus B. Putnam, Treasurer, in account with the

	<i>Amount brought forward</i>	.	.	.	.	\$543,735.53
To	taxes for the year 1888	.	.	.	.	\$118.55
	“ “ 1889	.	.	.	.	12,401.32
	“ “ 1890	.	.	.	.	443,070.46
						<hr/>
						\$999,325.86
	Unpaid bills, January 1, 1891	.	.	.	.	55,042.97
						<hr/>
	Total	.	.	.	.	\$1,054,368.83

*City of Manchester, year ending December 31, 1890.**Cr.*

	<i>Amount brought forward</i>	. . . . .	\$881,874.08
By	new text-books, free	. . . . .	\$9,005.11
	engineers' department	. . . . .	3,221.89
	scavenger teams	. . . . .	15,958.46
	health department	. . . . .	1,557.38
	indigent soldiers	. . . . .	737.82
	street sweeping	. . . . .	1,237.08
	mayor, incidentals	. . . . .	188.00
	new city stables	. . . . .	5,994.02
			<hr/>
			\$919,773.84
	Cash on hand, January 1, 1891	. . . . .	134,594.99
			<hr/>
	Total	. . . . .	\$1,054,368.83

SYLVANUS B. PUTNAM,

City Treasurer.

STATEMENT OF THE MUNICIPAL RECEIPTS AND
EXPENDITURES OF THE CITY OF MANCHESTER,
N. H., FOR THE YEAR 1890.

RECEIPTS.

Jan. 1, 1890, balance of cash on hand	\$109,311.83	
Less amount of unpaid bills	29,462.50	
		<u> </u>
Net cash on hand		\$79,849.33
Received from:		
tax on the city	\$455,634.39	
the State on insurance, railroad savings bank, and literary fund taxes	\$98,093.61	
Costs and interest on taxes	342.44	
		<u> </u>
	\$554,070.44	
Less discount on		
taxes	\$11,265.25	
abatment on		
taxes	2,999.39	
state tax	63,435.00	
county tax	46,032.47	
		<u> </u>
	123,732.11	
		<u> </u>
Net amount of taxes for municipal purposes		\$430,338.33
Received from court fines and costs		6,939.57
city farm	\$2,462.32	
Hillsborough county	2,201.57	
		<u> </u>
		4,663.89
Received from licenses:		
To enter sewer	\$1,013.40	
keep dog	1,361.16	

To sell milk	\$49.50	
keep billiard table	37.50	
For shows and exhibitions	190.50	
	<u> </u>	\$2,652.06
Received from rents		2,871.63
Water-Works		90,463.37
Pine Grove cemetery	\$4,423.37	
Valley cemetery	1,300.00	
	<u> </u>	5,723.37
city scales		487.45
street department teams	\$2,700.69	
fire department teams	4,699.47	
	<u> </u>	7,400.16

MISCELLANEOUS.

Received from tuition		428.75
land sold	\$1,747.50	
premium on bonds	5,670.00	
judgment recovered	2,500.00	
other miscellaneous sources	382.80	
unpaid bills covered into treas'y	678.95	
	<u> </u>	10,979.25
Received from bridges		434.99
temporary loan	\$100,000.00	
water bonds re-funded	100,000.00	
cemet'y b'ds	2,900.00	
	<u> </u>	202,900.00

Total amount of receipts for the year 1890	<u> </u>	\$766,281.92
		<u> </u>
		\$846,131.25

EXPENDITURES.

1890.		
Paid interest on water bonds	\$34,177.00	
interest on city bonds	15,771.00	
interest on cemetery bonds	567.50	
interest on temporary loan	555.57	
	<u> </u>	\$51,071.07
funded debt, water bonds of July		
1, 1874	\$99,900.00	
temporary loan of 1890	100,000.00	
	<u> </u>	199,900.00
printing and stationery	\$2,058.18	
incidental expenses	17,380.91	
mayor's incidentals	188.00	
city officers' salaries	13,489.41	
city hall	2,741.79	
	<u> </u>	35,858.29
Paid for street and sewer department :		
on thirteen highway districts	\$21,045.45	
new highways	9,075.61	
land damages	858.16	
sprinkling	7,593.00	
paving	6,633.75	
macadamizing	20,925.52	
grading for concrete	5,089.86	
scavenger teams	15,958.46	
street sweeping	1,237.08	
lighting streets	41,099.64	
bridges	3,879.68	
city teams	5,246.19	
sewers and drains	39,297.97	
	<u> </u>	177,940.37
Paid for engineers' department		3,221.89
health "		1,557.38
School department :		
Paid for repairs on schoolhouses	\$4,119.76	
fuel	3,703.32	

Paid for furniture and supplies	\$575.15	
books and stationery	141.35	
printing and advertising	389.05	
contingent expenses	830.10	
care of rooms	3,376.75	
evening schools	1,254.81	
teachers' salaries	45,404.87	
school committee and truant officer	1,020.00*	
superintendent's salary	2,000.00*	
evening schools, mechanical drawing	694.89	
free text-books	9,005.11	
	<u> </u>	\$72,515.16
Paid for city library, maintenance	\$3,239.88	
books	1,000.00	
	<u> </u>	4,239.88
Paid for fire department	\$41,409.53	
fire-alarm telegraph	1,585.43	
hydrant service	18,080.00	
	<u> </u>	61,074.96
Paid for police department		37,096.16
Public buildings :		
Paid for repairs	\$4,443.87	
new city stables	5,994.02	
new schoolhouse (Varney)	43,704.11	
	<u> </u>	54,142.00
Paid for water-works, maintenance	\$22,088.82	
construction	11,314.87	
	<u> </u>	33,403.69
Public places :		
Paid on commons	\$4,214.03	
Stark monument square, main- tenance	60.75	
Stark monument square, land	8,000.00	
Pine Grove cemetery	5,017.54	

* \$3,020 deducted from city officers' salaries and added to school department.

Paid on Valley cemetery	\$2,789.86	
Amoskeag cemetery	60.35*	
	<u> </u>	\$20,142.53
Charity, philanthropy, patriotism :		
Paid for paupers off the farm	\$4,336.46	
city farm	7,467.30	
Women's Aid and Relief So-		
ciety	400.00	
free beds, Elliot Hospital	600.00	
Woman's Mercy Home	500.00	
indigent soldiers	737.82	
decoration of soldiers' graves	374.27	
	<u> </u>	14,415.85
Total expenditures for the year 1890		\$766,579.23
Cash on hand December 31, 1890	\$134,594.99	
Less amount of bill unpaid	55,042.97	
	<u> </u>	
Net cash on hand January 1, 1891		79,552.02
		<u> </u>
		\$846,131.25

* \$60.35 taken from incidental expenses account and added to Amoskeag cemetery.

TABULAR STATEMENT OF THE TOTAL RECEIPTS AND EXPENDITURES OF THE CITY OF MANCHESTER, N. H., 1890.

RECEIPTS.

YEAR.	January 1. Balance on hand.	Taxes received from the State.				Costs and interest on taxes.	Court fines and costs.	City farm.	Hillsboro' county. board of paupers.		
		Direct city taxes.	County taxes.	Insurance tax.	Railroad tax.					Savings bank tax.	Literary fund.
1890.....	\$79,849.33	\$409,601.32	\$46,032.47	\$3,752.25	\$21,443.72	\$68,392.94	\$4,504.70	\$342.44	\$9,939.57	\$2,462.32	\$2,201.57

RECEIPTS. — Continued.

YEAR.	LICENSES.				Gross receipts, water-works.	Pine Grove cemetery.	Valley cemetery.	Bridges.	City scales.
	To enter sewer.	To keep dog.	To keep billiard table.	To sell milk.						Rents.
1890.....	\$1,013.40	\$1,361.16	\$37.50	\$49.50	\$2,871.63	\$4,422.37	\$1,300.00	\$434.09	\$487.45

RECEIPTS. — Continued.

YEAR.	Fire department teams.	Street department teams.	Tuition.	Land sold.	Premium on bonds sold.	Judgments covered.	Miscellaneons.	LOANS.		
								Temporary.	Bonded.	Un-claimed bills covered into the treasury.
1890.....	\$4,699.47	\$2,700.69	\$428.75	\$1,747.50	\$5,070.00	\$2,500.00	\$382.80	\$100,000.00	\$102,000.00	\$678.35

RECEIPTS. — *Continued.*

YEAR.	Total rec'ts during the year, excluding cash on hand.	Grand total receipts during the year including cash on hand.
1890.....	\$890,014.03	\$969,863.36

EXPENDITURES.

YEAR.	INTEREST.					Printing and stationery.	Incidental expenses.*	Mayor's incidental.	City off-icers' salaries.	City Hall.
	On water bonds.	On city bonds.	On cemetery bonds.	On temporary loan.	Funded debt.					
1890.....	\$24,477.00	\$15,771.00	\$547.50	\$555.57	\$99,900.00	\$2,458.18	\$17,380.91	\$188.00	\$13,489.41†	\$2,741.79

EXPENDITURES. — *Continued.*

STREET AND SEWER DEPARTMENT.

YEAR.	STREET AND SEWER DEPARTMENT.						Bridges, maintenance.	Lighting streets.	Street sweeping.	Scavenger teams.	Grading for concrete.	Macadamizing.	Paving.	Sprinkling.	Land damages.
	Thirteen highway districts.	New highways.	Land damages.	Sprinkling.	Paving.	Macadamizing.									
1890.....	\$21,045.45	\$9,075.61	\$858.16	\$7,593.00	\$6,633.75	\$20,925.52	\$5,089.86	\$1,237.08	\$15,958.46	\$41,099.64	\$3,879.68				

* \$60.35 taken from incidental expenses and carried to Amoskeag cemetery.

† Salaries of truant officer, committees, and superintendent, amounting to \$3,420, taken from city officers' salaries and carried to school department.

EXPENDITURES. — *Continued.*

YEAR.	SEWERS AND DRAINS DEPARTMENT.			SCHOOL DEPARTMENT.				Care of rooms.			
	City teams.	Sewers and drains.	Engi-neers' de-partment.	Health de-partment.	Repairs of school-houses.	Fuel.	Furniture and station-ery.		Books and station-ery.	Printing and adver-tising.	Conti-nent ex-penses.
1890.....	\$5,246.19	\$36,297.97	\$3,221.89	\$1,557.38	\$4,119.76	\$3,703.32	\$575.15	\$141.35	\$389.05	\$830.10	\$9,376.75

EXPENDITURES. — *Continued.*

YEAR.	CITY LIBRARY.		CITY LIBRARY.		Fire de-partment, telegraph.	Hydrant service.					
	Evening schools.	Teachers' salaries.	Salaries of school super-in-tendant of public schools.	Evening schools.			Free text-books.				
1890.....	\$1,254.81	\$45,404.87	\$1,026.00*	\$2,060.00*	\$694.89	\$9,065.11	\$3,223.88	\$1,000.00	\$41,469.53	\$1,585.43	\$18,080.00

EXPENDITURES. — *Continued.*

YEAR.	PUBLIC BUILDINGS.		WATER-WORKS.		PUBLIC PLACES.					
	Repairs.	New city stable.	Mainte-nance.	Const-ru-ction.	Commons.	STARK MONUMENT SQUARE.				
1890.....	\$37,696.16	\$5,694.02	\$22,088.82	\$11,314.87	\$4,214.03	Mainte-nance.	Land bought.	Pine Grove cemetery.	\$5,017.54	\$2,780.86

* Salaries of tenant officer, committees, and superintendent, amounting to \$3,020, taken from city officers' salaries and carried to school department.

EXPENDITURES. — *Continued.*

YEAR.	CHARITY, PATRIOTISM, PHILANTHROPY.						TAXES.		Total of ordinary expenditures.		
	Amoskeag cemetery.	Paupers of the farm.	City farm.	Indigent soldiers.	Decorat- tion of soldiers' graves.	Woman's Aid and Relief Hos- pital.	Free beds Elliot Hospital.	Woman's Mercy Home.		Abate- ments.	Discount.
1890	\$60.35*	\$4,336.46	\$7,467.30	\$737.82	\$374.27	\$400.00	\$600.00	\$500.00	\$2,969.39	\$11,265.25	\$76,843.87

EXPENDITURES. — *Continued.*

YEAR.	State tax.	County tax.	Grand total of expenditures.	Cash on hand.
1890	\$63,435.00	\$46,032.47	\$890,311.34	\$79,552.02

* \$60.35 taken from incidental expenses and carried to Amoskeag cemetery.

INCIDENTAL EXPENSES.

Appropriation raised by tax \$15,000.00

RECEIPTS.

Received from Western Union Telegraph Company, in settlement of suit	\$2,500.00	
from E. P. Johnson, for chopping block	1.50	
from Edward Wagner, first payment for land	100.00	
from Edward Wagner, balance for land	1,275.00	
from F. O. Clement, for old iron	1.79	
from Charles W. Strain, on account of land	50.00	
from Timothy Shea, first payment for land	100.00	
from Timothy Shea, balance for land	212.50	
from Matthew McDonald, on account of land	10.00	
	<hr/>	4,250.79
Transferred from reserved fund	\$2,293.20	
“ “ “ “	1,724.46	
	<hr/>	4,017.66
Balance overdrawn, paid from money not otherwise appropriated		254.40
		<hr/>
		\$23,522.85

EXPENDITURES.

FOR RETURN OF BIRTHS, DEATHS, AND MARRIAGES.

Paid O. D. Abbott	\$10.00
D. S. Adams	4.00
E. Bernier	8.50
C. W. Downing	6.75
E. B. Dunbar	3.25

Paid	C. E. Dodge	\$24.25
	C. W. Dodge	5.25
	C. M. Dodge	5.00
	L. French	9.25
	L. M. French	18.25
	L. B. How	3.75
	William Holland . . . . .	.50
	J. A. Jackson	12.00
	M. G. Kean	10.75
	N. P. Kidder, 928 deaths at 15c.	139.20
	N. P. Kidder, 873 births at 15c.	130.95
	N. P. Kidder, 512 marriages at 15c.	76.80
	J. S. Mahoney	2.75
	J. E. Lanouette	38.75
	J. W. D. MacDonald	27.75
	Jacob W. Mooar	1.00
	George W. Nutter	27.50
	J. E. E. Roy	3.50
	C. B. Sturtevant	3.75
	E. Sylvain	25.75
	J. Sullivan	29.50
	Thomas Wheat	8.50
	Charles F. Flanders	21.75
	John Ferguson	33.50
	Georgianna Wilson . . . . .	.25

\$692.70

LABOR OF MEN AND TEAMS, DISTRICT NO. 2, AS PER PAY-ROLLS.

Paid, January	\$50.00
February	28.93
March	21.00
April	28.50
May	45.93
June	105.49
July	350.18
August	574.13

INCIDENTAL EXPENSES.

375

Paid, September	\$153.61
October	301.72
November	181.63
December	76.11
	<hr/>

\$1,917.23

DISTRICT NO 10.

Paid, November	
--------------------------	--

\$80.11

DAMAGES AND JUDGMENTS.

Paid Samuel Amsden, damage to house by blasting	\$3.00
Joseph Allen, injuries at the city farm	20.00
Sarah B. Bean, on execution	18.11
Sarah B. Bean, on execution	2,487.88
Michael Burns, damage to person on Cedar street	150.00
W. B. Corey & Co., damage to team	23.59
Mary Carey, damage to person on Chestnut street	300.00
Margaret Kelley, on execution	257.12
Mary Kildea, on execution	713.30
J. B. Moore, changing grade of highway	300.00
Clara Moore, on execution	1,303.94
Clara Moore, on execution	23.59
Florence O'Leary, damage to per- son	700.00
Orrin River, damage to wagon	75
George S. Smith, four sheep killed by dogs	12.00
Charles F. Read, damage to horse	75.00
Luther W. Hall, on execution	548.09
M. E. Kean, for attendance on Po- lidor Beausoliel	30.00
	<hr/>

\$6,966.37

LEGAL EXPENSES.

Paid D. S. Adams, services, expenses, etc., in Moore and Kildea cases.	\$137.00
J. F. Briggs, services and expenses, Manchester vs. Western Union Telegraph Company	40.00
Campbell & Williams, printing note and letter heads for the city solicitor	5.15
John F. Cassidy, expenses to Franklin, N. H., and summoning witnesses at Franklin	17.87
James M. Collity, expert services, etc.	60.00
James M. Collity, medical attendance on Erwin Hill	30.00
Hillsborough County Commissioners, services hearing L. W. Hall vs. Manchester	71.45
Hillsborough County Commissioners, services in the road hearing of the P. C. Cheney Co., and others	339.80
J. G. Hutchinson, witness fees and services in summoning same, in Bean case	8.79
J. G. Hutchinson, witness fees and services in Moore vs. Manchester	17.74
J. G. Hutchinson, serving notices, and expenses, Parsons case	8.10
Warren Harvey, seven and one half days' service and team, in Goffstown road case	39.00
D. F. Healy, services and witness fees, Kildea vs. the City of Manchester	5.22

Paid W. H. Hackett, clerk U. S. circuit court, fees in Western Union Telegraph case	\$6.00
E. F. Jones, cash paid T. D. Luce, copy	4.50
E. F. Jones, expenses in L. W. Hall case	3.06
James Brothers, horse and buggy	2.00
E. T. James, horse and buggy for solicitor	3.00
E. T. James, horse and buggy for C. H. Reed	5.00
George A. Lovejoy, witness fees	1.37
A. J. Mayhew, witness fees	1.37
E. F. McQueston, services in Bean case	65.00
C. H. Reed, services in Goffstown road hearing	85.50
C. H. Reed, teams of E. T. James, Goffstown road hearing	11.00
C. H. Reed, five days' service in Moore <i>vs.</i> Manchester	11.25
C. H. Reed, two days' services in matter of sheep killing	4.50
Town of New Boston, fees, etc., in P. C. Cheney Company road hearing	26.05
Town of Goffstown, fees, etc., in P. C. Cheney road hearing	25.74
Town of Weare, fees, etc., in P. C. Cheney road hearing	21.52
W. W. Wilkins, services, etc., in Clara Moore case	60.00
W. W. Wilkins, services, etc., in Mary Kildea case	35.00
Harry S. Lovering, deposition, in case of Golden <i>vs.</i> Manchester	4.00

Paid David Perkins, services in relation to Cypress street	\$10.00
C. C. Harriman, services in the matter of Cypress street	15.24

\$1,181.22

CITY COUNCIL AND COMMITTEES.

Paid C. H. Simpson, use of hack for inspectors in posting check-lists	\$3.00
Hattie E. Daniels, for typewriting	2.89
H. W. Herrick, work and expense on drawing of city hall	17.00
E. T. James, for carriage hire	16.00
James Brothers, carriage hire	75.00
New England Telegraph and Tele- phone Co.	51.44
George W. Reed, hack hire	10.00
J. A. Shatswell, 1 vol. encyclo- pedia of law, Mayor's office	6.00
U. D. Tenney, varnishing portrait of Gen. Stark	1.00
E. V. Turcotte, hacks	10.00
Guy F. Whitten, teams in 1889	12.00
Whitten & Fifield, carriage hire	110.25
Whitten & Fifield, carriage hire	21.50
James Brothers, horse and buggy, city messenger	6.50
James Brothers, horse and buggy, Mayor to city farm	3.50
James Brothers, two hacks, com- mittee on streets	10.00
E. T. James, two hacks, commit- tee on streets	10.00
E. T. James, two hacks, committee on lighting streets	10.00
E. T. James, horse and buggy, to lower cemetery	2.00

\$378 08

EXPENSES OF THE CITY LIBRARY.

Paid Thomas A. Lane, labor and material for the city library . . .	\$1.80	
D. A. Simons for one table . . .	2.75	
John A. Barker, care of boiler at city library	132.50	
Henry Parker, work on and around city library	6.00	
Robert Clark, work on and around city library	39.25	
	<hr/>	\$182.30

DISEASED CATTLE, ETC.

Paid D. C. James, examination of Cole's horse	\$2.00
Maxwell & Campbell, isolating and killing diseased cattle . . .	38.50
James Bros., examining Chenette's horse	2.00
J. Blakely, visit and opinion on Chenette's horse	5.00
J. L. Golden, examination of Chenette's horse	2.00
Wm. E. Moore, printing blank forms, diseased cattle . . .	12.00
Jabez Alexander, examination of diseased horses	2.00
Jabez Alexander, horse and expense for team	6.00
Jabez Alexander, expense and appraisal, horse of Henry Cole .	4.00
George H. Bailey, V. S., for services	50.00
Henry Cole, killing and burying horse	3.00

Paid James Cavanaugh, examination and appraisal of horse of Henry Cole	\$2.00
H. Fox Davis, <i>et al</i> , fees as appraisers of C. H. H. horse	6.00
Mrs. H. I. Robinson, value of horse killed	50.00
Dr. F. I. Smith, four days, expert service and expenses	46.50
D. C. Whittemore, examination of Lovering's horse	3.00
James B. Straw, expenses to Concord to see state treasurer . . .	1.28
Tom W. Robinson, services as appraiser of diseased cattle at the State Industrial School	5.00
Robert E. Wheeler, killing diseased cattle at the State Industrial School	10.00
Robert E. Wheeler, appraising and killing diseased cattle at Rowell's	2.00
Robert E. Wheeler, appraising and killing diseased cattle at J. O. Clark's	2.00
Robert E. Wheeler, killing diseased cattle at the State Industrial School	3.00
Robert E. Wheeler, appraising and killing diseased cattle at J. O. Clark's	2.00
F. I. Smith, one and one half days' service at the State Industrial School, hotel and R. R. expense	18.50
H. Fox Davis, services as appraiser, Frank Hutchinson's cattle, <i>et al</i>	5.00

Paid H. Fox Davis, services as appraiser at J. O. Clark's	\$5.00	
H. Fox Davis, services as appraiser at C. W. Rowell's	5.00	
Benjamin C. Dean, one cow killed, appraised at	43.33	
J. Blakely, V. S., visit to C. H. Hutchinson's horse, glanders	5.00	
J. A. Alexander, V. S., services as examiner, appraiser, etc., at State Industrial School	52.00	
J. Alexander, V. S., services as examiner, appraiser, etc., of Rowell's, Clark's, Quimby's, Preston's, and Weber's cows and oxen, at State Industrial School	29.00	
J. Otis Clark, two cows killed	60.00	
Robert J. McGuire, examining diseased cattle of O. Clark	25.00	
C. W. Rowell, 2 cows killed	70.00	
	—	\$577.11

CITY SCALES.

Paid L. B. Bodwell & Co., fuel for city scales	\$12.00	
J. S. Paige, salary as weigher	151.09	
J. B. Varick Company, 2 padlocks	1.50	
Frank H. Crawford, salary as weigher	73.32	
William Bailey, salary as weigher	75.56	
Pike & Heald, stove and stove-pipe, etc., city scales	13.88	
	—	\$327.35

MILK INSPECTOR.

Paid Daily Press Publishing Company, advertising milk inspector's notice	\$8.67
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Paid C. B. Littlefield, for milk inspector's tools	\$16.15	
C. B. Littlefield, for one year's services, 1889	150.00	
L. B. Bodwell, wood for city scales	3.25	
J. Frank Robinson, microscopic examination of milk	16.00	
John B. Clarke, advertising notice of milk inspector, four squares, one week	9.00	
	<hr/>	\$203.07

RELATING TO THE STREETS.

Paid Temple & Farrington Company, 1889, six time-books for Dist. 2	10.70
pens, paper, rubber, ink, etc., Dist. 2	10.99
J. B. McCrillis & Son, sharpening tools, repairing cart, etc., Dist. 2	2.15
Temple & Farrington Company, pens, paper, and time-books	9.95
Concord Railroad, freight of desk	.70
W. P. Goodman, stationery	3.25
Thomas A. Lane, 23 heavy dippers, for watering troughs	4.60
Thomas A. Lane, 38-foot chain, for watering trough . . . . .	.76
Thomas A. Lane, labor, two men seven hours, for watering trough	3 50
Thomas A. Lane, labor on two gas lanterns, Elm back street . . . . .	.60
Thomas A. Lane, repairing watering trough, Amoskeag	1.88
Thomas A. Lane, labor on watering trough, Bakersville	1.65
Thomas A. Lane, 1 double swing heavy bracket	2.00
Thomas A. Lane, labor	1.65
Thomas A. Lane, pipe, fittings, etc.	.90

Paid W. H. Vickery, 1 spring lock and keys, District No. 2	\$1.25
Water-Works, water for troughs	796.50
T. A. Lane, labor on trough, Bakersville . . . . .	.40
Hartford S. B. Inspection & Insurance Co. for insurance on boiler at stone crusher	22.50
Warren Harvey, stone culvert across Massabesic street, as per contract	971.00
Drake & Parker, lime and salt	1.85
J. J. Abbott, paint and labor on urinals and fountains	7.48
L. M. Aldrich, labor and materials, making tree boxes and placing them	94.41
Charles H. Robie, repair'g concrete at Lincoln-street schoolhouse :	
221.7 yards at 45 cts, \$99.76 }	
307 yards at 25 cts, 76.75 }	176.51
A. D. Gooden, use of water'g trough on Park street	3.00
C. H. Wood, painting numbers	1.50
Granite State Plating Co., 3,000 street numbers	135.00
George H. Holbrook, 40 days' work on trees, from June 11 to Sept. 22	100.00
George H. Holbrook, for iron rods, washers, and trucking ladders	3.00
F. S. Bodwell, 17½ feet of curb-stone*	17.50
F. S. Bodwell, 1 step*	9.00
F. S. Bodwell, 1 step*	17.00
F. S. Bodwell, 5 men setting over steps*	10.00
F. S. Bodwell, 1 load of stone*	3.00

* At James Baldwin's house.

Paid Charles A. Bailey, 252 feet of edge-stone, at 40 cents	\$100.80	
Charles A. Bailey, 2 circular stones, at \$3	6.00	
curbing in front of the North Main-street schoolhouse		
Thomas A. Lane, materials and labor in taking down and rebuilding fence on Massabesic street	13.22	
Thomas A. Lane, 190 feet Akron pipe, 4 feet 5-in. bends, 1 ft. 5-in. Y, at new city stables	14.07	
Charles H. Robie, concrete work around James Baldwin's residence, sidewalk, 1,396½ square feet ; 155.16 square yards	69.82	
Charles H. Robie, for concreting driveways, 172.87 square yards	112.35	
	<hr/>	\$2,742.44

ASSESSORS.

Paid J. G. Dearborn, P. M., postage stamps	\$2.00	
A. J. Lane, use of transfer book	10.00	
Union Publishing Co., Assessors' notice, 2½ squares 13 t	13.50	
	<hr/>	\$25.50

TAX COLLECTOR.

Paid George E. Morrill, collector, paid for distribution tax bills	\$68.28	
George E. Morrill, collector, paid Republican Press Association, for advertising sale of non-resident lands	5.10	
Union Publishing Co., advertising tax collector's notice	23.35	

INCIDENTAL EXPENSES.

385

Paid John B. Clarke, advertising sale of non-resident lands	\$18.00	
John B. Clarke, advertising tax collector's notice	30.00	
J. C. Nichols & Son, horse and buggy	4.50	
	<u> </u>	\$149.23

MEDICAL ATTENDANCE.

Paid Dr. J. F. Brown, medical attendance on Mr. Savory	\$23.75	
Dr. C. W. Downing, medical attendance on sundry cases	61.00	
Dr. George W. Nutter, attendance on Mr. Bugher	1.00	
Dr. C. W. Downing, dressing wound for Albert Burns, etc., James Plumpton, extra service	18.75	
	<u> </u>	\$104.50

AMOSKEAG CEMETERY.

Paid Hiram Stearns, 8 days' work at Amoskeag cemetery	\$12.00	
R. P. Stevens & Co., resetting 20 headstones, Amoskeag cemetery	25.00	
Anson McGaffey, 7½ days cutting grass in Amoskeag cemetery	11.35	
Water-Works, water for Amoskeag cemetery	12.00	
	<u> </u>	\$60.35

POLITICAL EXPENSES.

Paid John B. Clarke, printing 472 check-lists and warrant blanks for eight wards	\$288.50
John B. Clarke, printing 800 notices, etc.	4.20

Paid Temple & Farrington Co., printing 49 blank books for inspectors	\$12.00
Isaac Whittemore, services of horse and carriage 7 days canvassing ward 6	8.75
G. H. Dudley, materials and labor in wardrooms Nos. 2 and 6	12.32
John B. Clarke, printing oaths, posters, and voters' certificates for inspectors of elections	6.50
John B. Clarke, printing additions to check-lists and changes	5.00
Edwin C. Richardson, return to city clerk and postage	1.30
E. V. Turcotte	10.00
L. N. Dufraim, cleaning out ward 6 wardroom	2.50
George H. Holbrook, labor, lumber, etc., at ward 6 wardroom	22.43
Harrison D. Lord, team to post lists	2.00
People's Gas-Light Co., gas in wardroom, Lake Avenue	1.68
	<hr/>

\$377.18

PERAMBULATION OF TOWN LINES.

Paid Whitten & Fifield for team, perambulating line between Manchester and Goffstown, Auburn, Londonderry, and Bedford	\$8.50
Harrie M. Young, 2 days' labor perambulating	4.00
W. H. Bennett, shoeing horse	2.50
Harrie M. Young, 3½ days perambulating town lines	6.50
W. H. Bennett, perambulating town lines, and setting stone bounds	34.85

Paid F. S. Bodwell, stone bounds for re- marking town lines, \$16.00;		
Manchester's share	\$7.75	
	<hr/>	\$64.10

CITY AUDITOR'S OFFICE.

Paid J. B. Sanborn, General and Ses- sion Laws	\$18.25	
Charles A. Hoitt & Co., for 8 chairs, 2 iron cuspidors, for auditor's office	18.75	
J. B. Varick Co., 1 copying-press and stand for the auditor's office	23.50	
A. E. Herrick, clerical labor for mayor and city auditor	406.52	
Hammond Typewriter Co., 1 drop cabinet	20.00	
Thorp & Adams Co., for 1 mime- ograph	29.50	
Hammond Typewriter Co., mani- fold paper, carbon, etc.	5.28	
Keeler & Co., for 1 walnut desk	50.00	
	<hr/>	\$571.80

SUNDRIES.

Paid J. W. Williams & Co., for 1 cut- out machine, treasurer's office	\$20.00
Goodwin & McIvers, for use of blocking under hose house	15.00
Head & Dowst, repairs, etc., on pest house	13.45
B. W. Robinson, building chim- ney at court house	17.51
Gilman B. Hoyt, recording deed	1.00
Dana W. King, abstract of titles	5.73
John A. Barker, extra night ser- vice December 16 and 17	4.00

Paid Charles E. Lord, labor, lime, etc., at city stables	\$11.00
Water-Works, water for Women's Aid Hospital, April to January	30.59
Water-Works, water for Women's Aid Hospital	10.98
W. B. Corey, trucking diver's tools	1.50
Dana W. King, copying 2 deeds .	1.08
James R. Carr, setting glass . .	1.00
Timothy Shea, cleaning vault .	3.50
Campbell & Williams, printing certificates, etc., for inspector of weights and measures . . .	5.00
A. M. Eastman, brooms and match- es for city messenger	1.05
John Kendall, 19 days' work, drawing plan for city farm buildings	57.00
Sampson, Murdock & Co., 6 maps of Manchester for census . . .	1.50
G. W. Varnum, 2 days clearing up around court house	3.00
American Bank Note Co., furnish- ing blank water bonds	180.00
J. B. Varick Co., 41 square feet screen cloth	1.03
First N. H. Battery, powder, etc., Fourth of July, 1890	38.58
J. K. Rhodes, services as city mes- senger 14 days	24.50
B. W. Robinson, horse 1 day . .	1.50
D. C. Whittemore, use of land for road	20.00
F. S. Sutcliffe, use of piano and moving same, for school festival	9.00
Simon Dodge, making guide-posts and placing same	5.00

Paid town of Goffstown, tax on land	\$1.67
G. F. Boshier, advertising and selling lot, corner Douglas and West streets	25.00
G. F. Boshier, advertising and selling lot and house on Maple street	25.00
E. T. James, horse and buggy for Reed to pond	3.00

SUNDRIES.

Paid A. R. Ingham, eleven dinners at 50c, at the laying out of the extension of the Manchester Street Railway to the Massabesic pond	5.50
Sampson, Murdock & Co., twenty Manchester directories	40.00
Mrs. E. E. Patch, tax returned, taxed to other parties	5.70
G. A. Alger, tax rebated	87.93
George S. Clough, tax on Oberlin Levasseus rebated, duplicate tax	13.32
N. P. Kidder, for making city report, 1889	150.00
	<hr/>
	\$840.62
Total expenditures	<hr/>
	\$17,441.26

TRANSFERS.

Amount transferred to new schoolhouse	\$900.00
Amount transferred to printing and stationery	1,654.09
Amount transferred to sewers and drains	2,456.04
Amount transferred to fire-alarm telegraph	293.85
Amount transferred to city teams	477.61
Amount transferred to Mayor's incidentals	300.00
	<hr/>
	\$6,081.59
	<hr/>
	\$23,522.85

INTEREST.

Appropriation raised by tax	\$17,000.00
Transfers, Water-Works	36,000.00
	<hr/>
	\$53,000.00

EXPENDITURES.

Paid George B. Chandler, on temporary loan	\$194.45
George B. Chandler, on temporary loan	166.67
Manchester National Bank, temporary loan	194.45
coupons on water bonds	34,177.00
coupons on city bonds	15,771.00
coupons on cemetery bonds	567.50
	<hr/>
	\$51,071.07
Amount transferred to reserved fund	1,928.93
	<hr/>
	\$53,000.00

TEMPORARY LOAN.

Received from National Revere bank, Boston, Mass., on note dated May 1, 1890	\$25,000.00
from George B. Chandler, or order, on note dated May 1, 1890	25,000.00
from George B. Chandler, or order, on two notes dated June 14, 1890	50,000.00
	<hr/>
	\$100,000.00
Paid, July 11, 1890, to the National Revere Bank, Boston, Mass., note dated May 1, 1890	\$25,000.00

Paid, July 11, 1890, to George B. Chandler, or order, note dated May 1, 1890	\$25,000.00	
July 14, 1890, to George B. Chandler, or order, notes dated June 14, 1890	50,000.00	
	<u> </u>	\$100,000.00

FUNDED DEBT.

Received from water bonds re-issued		\$100,000.00
Paid water bonds redeemed	\$99,900.00	
balance outstanding	100.00	
	<u> </u>	\$100,000.00

RESERVED FUND.

Appropriation raised by tax	\$20,000.00
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RECEIPTS.

Received from city scales, J. S. Paige <i>et al.</i>	\$487.45
from show licenses, N. P. Kidder	190.50
from rent of tenements, N. P. Kidder	461.63
from milk licenses, H. F. W. Little	49.00
from milk licenses, C. B. Littlefield	50.00
from dog licenses, N. P. Kidder	1,361.16
from billiard table licenses, N. P. Kidder	37.50
from premium on water bonds, N. W. Harris & Company	5,670.00

Received from interest on note from		
J. S. Paige	\$14.86	
from unpaid bills covered		
into the treasury	678.95	
	<hr/>	\$9,001.05

TRANSFERS.

Amount transferred from interest	\$1,928.93
Amount transferred from printing and stationery	795.91
Amount transferred from indigent soldiers	262.18
Amount transferred from interest on taxes	342.44
Amount transferred from abatement of taxes . . . . .	.61
Amount transferred from Mayor's incidentals	112.00
Amount transferred from funded debt	100.00
Amount transferred from highway district No. 1	100.75
Amount transferred from highway district No. 2	252.13
Amount transferred from highway district No. 4 . . . . .	.25
Amount transferred from highway district No. 5	13.25
Amount transferred from highway district No. 6	1.20
Amount transferred from highway district No. 8	8.27
Amount transferred from highway district No. 9	35.98
Amount transferred from highway district No. 11	10.50
Amount transferred from highway district No. 12 . . . . .	.20

Amount transferred from highway district No. 13	\$5.85	
Amount transferred from land taken for highways	141.84	
Amount transferred from bridges	480.72	
Amount transferred from city teams	432.11	
Amount transferred from fire alarm telegraph	21.81	
Amount transferred from firemen's parade	500.00	
Amount transferred from police department	843.41	
Amount transferred from new city stables	5.98	
Amount transferred from Water-Works	9,711.47	
Amount transferred from Stark Monument square	39.25	
Amount transferred from Pine Grove cemetery	654.22	
Amount transferred from Valley cemetery	80.59	
Amount transferred from receiving tomb	399.39	
	<hr/>	\$17,281.24
Amount transferred to balance from money in treasury not specifically appropriated		1,973.45
		<hr/>
		\$48,155.74

EXPENDITURES.

Paid W. C. T. U. Mercy Home	\$500.00
Amount transferred to free beds, Elliot Hospital	\$600.00
Amount transferred to new city stables	6,000.00
Amount transferred to sewers and drains	5,000.00
Amount transferred to sewers and drains	10,951.58
Amount transferred to decoration of soldiers' graves	74.27
Amount transferred to incidental expenses	4,017.66

Amount transferred to macadamizing	\$2,922.52	
Amount transferred to scavenger teams	3,958.46	
Amount transferred to street sweeping	37.08	
Amount transferred to health department	134.13	
Amount transferred to discount on taxes	1,265.25	
Amount transferred to highway district No. 11	75.00	
Amount transferred to new schoolhouse, West Manchester	3,779.61	
Amount transferred to fuel	7.45	
Amount transferred to teachers' salaries	1,801.94	
Amount transferred to City Hall	327.79	
Amount transferred to city officers' salaries	259.41	
Amount transferred to highway district No. 7	8.03	
Amount transferred to highway district No. 10	57.01	
Amount transferred to new highways	75.61	
Amount transferred to watering streets	93.00	
Amount transferred to paving streets	1,133.43	
Amount transferred to grading for concrete	1,089.86	
Amount transferred to lighting streets	99.64	
Amount transferred to engineers' department	221.89	
Amount transferred to fire department	1,797.35	
Amount transferred to hydrant service	80.00	
Amount transferred to repairs of buildings	443.87	
Amount transferred to commons	204.03	
Amount transferred to paupers off the farm	134.89	
Amount transferred to city farm	1,004.98	
	<hr/>	\$47,655.74
		<hr/>
		\$48,155.74

CITY HALL.

RECEIPTS.

Received from N. P. Kidder, rent of stores	\$1,717.50	
Received from N. P. Kidder, rent of stores	90.00	
Received from N. P. Kidder, rent of stores	602.50	
Received from J. P. Mullen, old carpet	4.00	
	<u>2,414.00</u>	
Amount transferred from reserved fund	327.79	
	<u>2,741.79</u>	\$2,741.79

EXPENDITURES.

PUBLIC COMFORT.

Paid Manchester Hardware Co., for 12 sheets of sandpaper	\$0.10	
Thomas A. Lane, labor on urinal	1.10	
Thomas A. Lane, labor on public comfort	1.55	
Manchester Heating & Lighting Co., 15 pounds waste yarn	2.25	
	<u>5.00</u>	\$5.00

FUEL AND LIGHTS.

Paid People's Gas-Light Co.	\$321.58	
L. B. Bodwell & Co., 25 tons of coal	162.50	
L. B. Bodwell & Co., 56 615-2000 tons at \$6.25	353.84	
	<u>837.92</u>	\$837.92

SUNDRIES.

Paid G. H. Dudley, for repairing doors at the City Hall	\$0.50	
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Paid G. H. Dudley, for two small signs	\$1.00
Manchester Hardware Co., for 1 snow shovel35
Manchester Hardware Co., for 1 sidewalk cleaner . . . . .	.40
Manchester Hardware Co., for 1 14-inch duster	1.40
Manchester Hardware Co., for sperm oil, emery cloth, etc.	1.23
Manchester Hardware Co., for glass	1.26
Manchester Hardware Co., for 1 16-inch ostrich duster	1.75
Manchester Hardware Co., for 1 snow shovel . . . . .	.35
J. B. Varick Co., for 50 feet $\frac{3}{4}$ - inch rubber hose	5.00
Thomas A. Lane, gas fixtures, etc., school committee room	18.48
Thomas A. Lane, gas fixtures, etc., school committee room	23.84
Thomas A. Lane, packing faucets, engineer's office . . . . .	.30
Thomas A. Lane, 4 opal globes, City Hall	1.00
Thomas A. Lane, labor on gas in entry . . . . .	.40
Thomas A. Lane, labor in com- mon council room, taking down fixtures . . . . .	.60
Thomas A. Lane, 3 $\frac{3}{4}$ -inch caps	.09
Thomas A. Lane, stock and labor on City Hall . . . . .	.90
Thomas A. Lane, stock and labor, common council rooms, etc.	10.37
Thomas A. Lane, labor and pack- ing sill cock . . . . .	.45

Paid Thomas A. Lane, labor on water leak	\$1.00
Thomas A. Lane, labor on closets and material	4.38
Thomas A. Lane, labor on water	.75
Thomas A. Lane, labor on keys, etc.	7.68
Mary Shiney, labor at the City Hall, washing, etc., 586 hours at 20 cents	117.20
J. J. Abbot, painting school committee room, auditor's office, and public comfort	78.27
A. M. Eastman, 6 brooms	1.50
A. M. Eastman, for brooms and matches	1.80
Flint & Little, lumber, 84 feet	2.52
Flint & Little, hardware	1.72
Flint & Little, 16½ hours labor	4.62
J. W. Gould, paper hanging	9.12
Head & Dowst, lumber, hardware, labor, etc., school committee room	230.62
Head & Dowst, materials and labor, for table, school committee room	47.57
Thomas A. Lane, for piping water-closet, etc., in school committee room	42.43
Keeler & Co., 2 5-foot walnut desks, for school committee and superintendent of District No. 2	100.00
Temple & Farrington Co., room paper, school committee room	56.62
Weston & Hill, carpet border for auditor's office	4.07
Weston & Hill, carpet, etc., for school committee room	128.83

Paid. carpet and rug for mayor and aldermen's room	\$118.88
James R. Carr & Co., setting glass	1.00
George L. Young, slate and labor	17.07
A. M. Finney, cleaning carpets	4.05
A. M. Finney, cleaning roping, common council room	5.09
A. M. Finney, cleaning and laying roping	5.39
Charles E. Lord, mason work and stock	23.75
Charles E. Lord, mason work and stock	33.55
Water-Works, for water	643.80
W. H. Vickery, for keys	5.00
J. Y. McQueston & Co., oak desk, city engineer's office	50.00
C. H. Wood, painting tin sign, city clerk's office	2.75
New England Telegraph & Telephone Co.	6.34
New England Telegraph & Telephone Co. (Sept.)	6.33
New England Telegraph & Telephone Co. (Oct.)	6.34
New England Telegraph & Telephone Co. (Dec.)	6.34
Pike & Heald, 5 mops . . . . .	.69
Pike & Heald, materials and labor on roof, water-closets, etc.	15.97
Pike & Heald, plumbing and materials (gas) in auditor's office	13.43
Pike & Heald, labor on roof	2.15
Pike & Heald, plumbing and material	1.77
E. J. Williams, cement, labor, etc., on roof	7.96

Paid Killey & Wadleigh, 1 window screen, auditor's office	\$0.50	
L. K. Mead, 1 cake C. B. soap, city clerk's office . . . .	.25	
L. M. Aldrich, iron work, screws, nails, and labor	1.60	
J. S. Holt & Co., 30 gallons soap	3.75	
George H. Holbrook, lumber on desk, etc.	4.75	
	<hr/>	\$1,898.87
Total expenditures		<hr/> <hr/> \$2,741.79

PRINTING AND STATIONERY.

Appropriation raised by tax	\$1,200.00
Transferred from incidental expenses	1,654.09
	<hr/>
	\$2,854.09

EXPENDITURES.

ASSESSORS.

Paid Temple & Farrington Co., for blank tax books	\$105.00	
Temple & Farrington Co., pens, penholders, ink, etc.	6.40	
Temple & Farrington Co., 2 direc- tories	4.00	
Temple & Farrington Co., 1 Pam- phlet Laws	1.00	
Temple & Farrington Co., 1 blank book	2.00	
Temple & Farrington Co., pencils, blotting paper, etc.,	5.63	
John B. Clarke, advertising assess- ors' notice, 2 in. 13 times	15.00	
	<hr/>	\$139.03

CITY CLERK.

Paid Temple & Farrington Co., 1 blank book	\$13.50
Temple & Farrington Co., 500 letter heads	2.50
Temple & Farrington Co., 1 canvas cover	1.50
Temple & Farrington Co., index, ink, etc.	3.50
Temple & Farrington Co., rubber bands, blank book, etc.	5.65
Temple & Farrington Co., 500 No. 9 envelopes	2.00
Temple & Farrington Co., record-books and covers	19.25
Temple & Farrington Co., 2 rulers, rubber bands, etc.	1.48
Temple & Farrington Co., rubber bands, blanks, etc.	5.39
Campbell & Williams, 50 blanks ruled to order	3.50
Campbell & Williams, 600 copies city ordinances	4.50
Campbell & Williams, 3,000 blanks for returns of deaths, etc.	23.50
Campbell & Williams, 500 commissions and ordinances	3.75
A. S. Campbell & Co., bills of sale, burial permits, etc.	7.75
A. S. Campbell & Co., dog licenses and ordinances	5.25
A. S. Campbell & Co., printing 1,200 blanks of various kinds	14.50
A. S. Campbell & Co., burial permits, etc.	5.00
A. S. Campbell & Co., 200 ruled blanks, and marriage reports	2.75

Paid John B. Clarke, advertisement, setting fires, 9 squares, one week	\$16.25	
Manchester post-office, fifty postal cards . . . . .	.50	
Pike & Heald, 2 tin boxes	3.90	
C. H. Wood, lettering 2 tin boxes . . . . .	.60	
	<hr/>	\$146.52

CITY TREASURER.

Paid Temple & Farrington Co., envel- opes, etc.	\$4.25	
Temple & Farrington Co., pay- roll sheets	6.00	
Temple & Farrington Co., receipt book, pens, and rubber bands	15.08	
Temple & Farrington Co., 1 blank cash book and cover	7.00	
Temple & Farrington Co., pay en- velopes	2.50	
Temple & Farrington Co., pay- rolls, etc.	6.75	
Temple & Farrington, envelopes, rubber bands, penholders	7.45	
Novelty Advertising Co., 1 atlas dater	1.00	
F. Pratt, Jr., pens and holders	2.20	
Manchester post-office, postage stamps	3.00	
Thomas H. Tuson, printing 1,000 treasurer's receipts	2.50	
Cincinnati Ink Co. . . . .	.50	
J. J. Jones, 1 improved dating stamp	4.00	
	<hr/>	\$62.23

TAX COLLECTOR.

Paid Temple & Farrington Co., 1 mem- orandum book	\$0.50
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Paid Temple & Farrington Co. 1 tax receipt book	\$8.75
Temple & Farrington Co. interest table	1.00
Temple & Farrington Co. pencils and paper . . . . .	.75
Temple & Farrington Co. 6 books . . . . .	.50
Temple & Farrington Co. index and penholders . . . . .	.25
John B. Clarke, printing 2,000 tax receipts	20.00
John B. Clarke 20,000 summons Manchester postoffice, 1,000 stamped envelopes	20.00
	<hr/> 21.50

875-73

AUDIT 3.

Paid Temple & Farrington Co. 100 paper, 11 sheets	\$8.45
Temple & Farrington Co. 2 blank books	2.60
Temple & Farrington Co. 50 drawers for bills	21.00
Temple & Farrington Co. 1 blank book	9.00
Temple & Farrington Co. pens, ink, paper, etc.	12.52
Temple & Farrington Co. 2 Pam- phlet Laws	2.00
Temple & Farrington Co. 2000 books	5.00
Temple & Farrington Co. envel- pes, mullage, etc.	2.67
Temple & Farrington Co. blanks, etc.	9.62
Temple & Farrington Co. 100 lined sheets	2.85

Paid Temple & Farrington Co., 500 large stamped envelopes	\$13.00
Temple & Farrington Co., ink, etc. . . . .	.65
Temple & Farrington Co., station- ery	52.40
Temple & Farrington Co., 500 ruled sheets, 2 typewriter rib- bons, ink, pens, pencils, etc.	8.72
John B. Clarke, blanks, bill heads, etc.	33.00
John B. Clarke, printing 6,000 bills, 8 $\frac{1}{2}$ x 7, ruled to order	27.00
John B. Clarke, printing 300 bills, 8 $\frac{1}{2}$ x 7, red line notice	4.50
John B. Clarke, printing 150 state- ments bonded debt	7.50
John B. Clarke, printing 1,000 bill heads, 11 x 8 $\frac{1}{2}$	8.50
John B. Clarke, printing 400 lists, wealth, debt, taxation	41.00
John B. Clarke, printing 500 half- letter heads	2.00
John B. Clarke, printing 550 blank bills, etc.	12.00
John B. Clarke, printing 500 half- letter heads	1.50
John B. Clarke, printing 1,000 bill heads	9.00
John B. Clarke, printing 100 ap- propriation blanks	6.50
Manchester Hardware Co., paper shears, duster, etc.	5.83
Novelty Advertising Co., 1 lever self-inking stamp	7.00
Hammond Typewriter Co., 1 type- writer, supplies, etc.	100.34

Paid Hammond Typewriter Co., carbons, shields, blotters, etc.	\$5.00	
Hammond Typewriter Co., record ribbon, oil	1.20	
Hammond Typewriter Co., envelopes, shields, carbon	3.50	
Hammond Typewriter Co., 1 typewriter brush . . . . .	.12	
Hammond Typewriter Co., 1 iron stand, 1 record ribbon, No. 2 type wheel, carbon paper	11.50	
Hammond Typewriter Co., 3 reams of paper, etc.,	5.65	
Hammond Typewriter Co., 2 type wheels, Nos. 2 and 4	10.00	
Hammond Typewriter Co., 3 ribbons	6.00	
Hammond Typewriter Co., 2 reams legal, ruled	2.80	
Manchester post-office, 150 2-cent stamps	3.00	
Head & Dowst, materials and labor on bill case	16.97	
Thorp & Adams Manufacturing Co., 1 desk rack	2.00	
Albert Hilcken, 1 blank book	5.00	
Albert Hilcken, 1 blank book	5.00	
Albert Hilcken, 1 portfolio	2.50	
	<hr/>	\$499.59

SUNDRIES.

Paid John B. Clarke, printing 1,500 city reports, etc.	\$632.60
John B. Clarke, printing 1,000 half-letter circulars, scavenger	4.50
John B. Clarke, printing 100 half-letter circulars, on card . . . . .	.75

Paid John B. Clarke, printing, advertising water-works bonds [7 sq. 4 t.]	\$11.75
John B. Clarke, printing, advertising scavenger ordinance . . .	28.83
John B. Clarke, printing, advertising amendment to chapter 14 [4½ in. 3t & 1 taw] . . .	11.50
John B. Clarke, printing, advertising amendment to chapter 6 [4¼ in. 1 taw]	11.15
John B. Clarke, printing, advertising ordinances [38 in. 3 t] . . .	58.50
John B. Clarke, binding 12 reports, Morocco	36.00
John B. Clarke, binding 34 reports, half-roan, lettered on side	51.00
John B. Clarke, binding 54 reports, half-roan, seal on side . . .	67.50
John B. Clarke, printing, advertising proposals for city stables . . .	9.00
Daily Press Publishing Co., advertising ordinances, 1 column 3 w.	20.00
Daily Press Publishing Co., advertising ordinances 3 Sat.	12.00
Daily Press Publishing Co., advertising proposals, city stables 1 w	7.50
Union Publishing Co., advertising proposals, city stables	10.50
Union Publishing Co., advertising amendments to ordinances 1 col. 3 t	60.00
Union Publishing Co., advertising garbage team service, 8 sq. 3 t . . .	16.00
Union Publishing Co., advertising bond sale, 4 sq. 4 t.	10.00
Union Publishing Co., advertising proposals for sewer pipe	15.00

Paid J. G. Ellinwood, photographing buildings for city report, 1890	\$39.50	
William E. Moore, printing labels for photographs	3.50	
H. W. Herrick, labor and materials mounting	20.00	
	<hr/>	\$1,137.08
Total amount of expenditures		\$2,058.18
Amount transferred to reserved fund		795.91
		<hr/>
		\$2,854.09

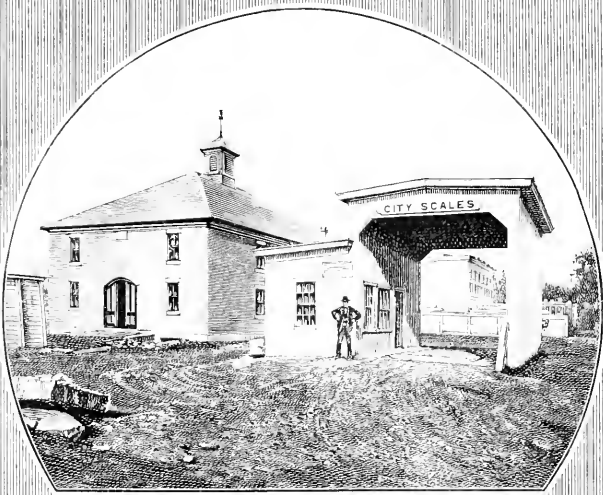
MAYOR'S INCIDENTALS.

Amount transferred from incidental expenses	\$300.00
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EXPENDITURES.

SUNDRIES.

Paid H. Giebel, decorating City Hall, St. John's Day	\$30.00	
Whitten & Fifield, hacks	15.00	
John B. Clarke, advertising, Law- rence sufferers	4.50	
John B. Clarke, 500 envelopes	1.00	
D. B. Varney, telephone, extra, to Lawrence . . . . .	.25	
telegram to Dr. Bailey . . . . .	.50	
paid use of team for the year 1890	133.00	
Daily Press Publishing Co., adver- tising, Lawrence sufferers	3.75	
	<hr/>	\$188.00
Total expenditures		\$188.00
Amount transferred to reserved fund		112.00
		<hr/>
		\$300.00



38. NEW CITY STABLES.



42. STATE INDUSTRIAL SCHOOL.

CITY OFFICERS' SALARIES.

Appropriation raised by tax	\$15,500.00
Transferred from reserved fund	\$259.41
from truant officer	750.00
	<hr/>
	1,009.41
	<hr/>
	\$16,509.41

EXPENDITURES.

CENTRAL DEPARTMENT.

Paid David B. Varney, mayor	\$1,800.00
Nathan P. Kidder, city clerk	900.00
Sylvanus B. Putnam, city treasurer	1,200.00
James B. Straw, city auditor	980.56
Edwin F. Jones, city solicitor	745.00
Jesse B. Pattee, clerk of the com- mon council	200.00
Inspector of Buildings T. W. Lane	100.00
City Messenger John A. Barker	699.96
City Messenger John A. Barker, extra services	4.00
	<hr/>
	\$6,629.52

MODERATORS.

Paid S. P. Cannon, ward 1, 1889 and 1890	\$3.00
N. Nichols, ward 2, 1889 and 1890	3.00
Lyman W. Colby, ward 3, 1889 and 1890	3.00
John C. Bickford, ward 4, 1889 and 1890	3.00
J. J. McAllister, ward 5, 1889 and 1890	3.00
Clarence D. Palmer, ward 6, 1889 and 1890	3.00

Paid Ira W. Stearns, ward 7, 1889 and 1890	\$3.00	
John W. Wilson, ward 8, 1889 and 1890	3.00	
	<hr/>	\$24.00

WARD CLERKS.

Paid Frank X. Foster, ward 1, 1890	\$5.00	
D. C. Smith, ward 2, 1889 and 1890	10.00	
F. O. Moulton, ward 3, 1889 and 1890	10.00	
E. L. Richardson, ward 4, 1889 and 1890	10.00	
Thomas Howe, ward 5, 1889 and 1890	10.00	
Wm. H. Sleeper, ward 6, 1889 and 1890	10.00	
Fred W. Pillsbury, ward 7, 1889 and 1890	10.00	
Charles G. Ranno, ward 8, 1889 and 1890	10.00	
	<hr/>	\$75.00

INSPECTORS OF CHECK-LIST.

Paid Wm. B. Stearns, ward 1, 39 days at \$2.25	\$87.75
B. L. Hartshorn, ward 2, 35 days at \$2.25	78.75
D. O. Furnald, ward 3, 30 days at \$2.25	67.50
H. D. Lord, ward 4, 64 days at \$2.25	144.00
M. F. Lawler, ward 5, 30 days at \$2.25	75.00
Isaac Whittemore, ward 6, 57 days at \$2.25	128.25

Paid Jos. A. Foster, ward 7, 34 days at \$2.25	\$576.50
Charles C. Tinkham, ward 8, 49 days at \$2.25	110.50
Arthur Provost, as interpreter, 7 days at \$2.00	14.00
	<hr/>
	\$782.25

SUPERVISORS.

Paid Wm. C. Knowlton, ward 1, 4 days at \$1.75	\$7.00
F. W. McKinley, ward 1, 4 days at \$1.75	7.00
Fred C. Hale, ward 2, 4 days at \$1.75	7.00
John Dowst, ward 2, 4 days at \$1.75	7.00
H. F. W. Little, ward 3, 3 days at \$1.75	5.25
D. H. Young, ward 3, 3 days at \$1.75	5.25
Charles H. Uhlig, ward 4, 5 days at \$1.75	8.75
Charles H. Flagg, ward 4, 5 days at \$1.75	8.75
John J. Minton, ward 5, 6 days at \$1.75	10.50
J. H. Slater, ward 5, 6 days at \$1.75	10.50
J. S. Hutchinson, ward 6, 6 days at \$1.75	10.50
Wm. C. Blodgett, ward 6, 6 days at \$1.75	10.50
W. T. Payne, ward 7, 4 days at \$1.75	7.00
John W. Davis, ward 7, 3½ days at \$1.75	6.13

Paid John Martin, ward 8, 7½ days at \$1.75	\$13.12	
Charles H. Hodgman, ward 8, 7½ days at \$1.75	13.12	
	<hr/>	\$137.37

SELECTMEN.

Paid Lees Ward, ward 1, 1889 and 1890	\$5.00
George C. Kemp, ward 1, 1889 and 1890	5.00
Amasa S. Hilands, ward 1, 1889 and 1890	5.00
D. G. Andrews, ward 2, 1889 and 1890	5.00
C. R. Holbrook, ward 2, 1889 and 1890	5.00
Harry P. Ray, ward 2, 1889 and 1890	5.00
David Thayer, ward 3, 1889 and 1890	5.00
Charles F. Garland, ward 3, 1889 and 1890	5.00
Wm. H. Darling, ward 3, 1889 and 1890	5.00
George E. Richards, ward 4, 1889 and 1890	5.00
J. F. Gillis, ward 4, 1889 and 1890	5.00
J. H. Mann, ward 4, 1889 and 1890	5.00
Martin J. Harney, ward 5, 1889 and 1890	5.00
Charles J. Woods, ward 5, 1889 and 1890	5.00
Patrick C. Campbell, ward 5, 1889 and 1890	5.00

Paid George B. Rogers, ward 6, 1889 and 1890	\$5.00
Jerome B. Titus, ward 6, 1889 and 1890	5.00
P. D. St. Germain, ward 6, 1889 and 1890	5.00
George D. Smith, ward 7, 1889 and 1890	5.00
S. F. Claffin, ward 7, 1889 and 1890	5.00
W. D. Wheeler, ward 7, 1889 and 1890	5.00
H. J. Hatch, ward 8, 1889 and 1890	5.00
Victor Sancoucie, ward 8, 1889 and 1890	5.00
Jos. A. Heon, ward 8, 1889 and 1890	2.50
Jerome B. Titus, selectman, for year ending January 1, 1890	2.50
W. H. Sleeper, clerk, for year end- ing January 1, 1890	5.00
overdraft	60.50
	<hr/>
	\$185.00

CITY PHYSICIAN AND OVERSEERS OF THE POOR.

Paid C. W. Downing, city physician	\$200.00
D. B. Varney, chairman, <i>ex officio</i>	25.00
William H. Maxwell, ward 1	25.00
Thomas L. Quimby, ward 2	25.00
James Sutcliffe, ward 3	6.25
Benjamin F. Garland, ward 3	18.75
George S. Holmes, ward 4	25.00
Thomas H. Mahoney, ward 5	25.00
Charles Francis, ward 6	25.00
David W. Anderson, ward 7	25.00
Horatio Fradd, ward 8	25.00

Paid William H. Maxfield, clerk	\$75.00	
Judith Sherer, matron at the pest-house for year 1890	360.00	
Judith Sherer, matron at the pest-house 1 month, December, 1889	30.00	
	<hr/>	\$890.00

SCHOOL OFFICERS AND BOARD OF SCHOOL COMMITTEE.

Paid William E. Buck, superintendent of schools	\$2,000.00	
Samuel Brooks, truant officer	750.00	
D. B. Varney, chairman, <i>ex officio</i>	10.00	
C. H. Manning, ward 1	10.00	
J. L. Sanborn, ward 1	10.00	
Benjamin C. Dean, ward 2	10.00	
William C. Clarke, ward 2	10.00	
Nathan P. Hunt, ward 3	10.00	
James E. Dodge, ward 3	10.00	
Stephen B. Stearns, ward 4	10.00	
John F. Cahill, ward 5	10.00	
James P. Slattery, ward 5	10.00	
F. T. E. Richardson, ward 6	10.00	
Charles G. Dodge, ward 6	10.00	
Edward B. Woodbury, ward 7	10.00	
Marshall P. Hall, ward 7	10.00	
Luther C. Baldwin, ward 8	10.00	
William K. Robbins, ward 8	10.00	
J. F. Frost, president of the common council, <i>ex officio</i>	10.00	
James E. Dodge, clerk of school board	100.00	
	<hr/>	\$3,020.00

BOARD OF ASSESSORS.

Paid Henry Lewis, ward 1, assessor	\$144.50
John E. Stearns, ward 2, assessor	165.00
D. O. Furnald, ward 3, assessor	705.00

Paid H. D. Lord, ward 4, assessor . . .	\$250.00
John Ryan, ward 5, assessor . . .	165.00
George H. Dudley, ward 6, assessor . . .	410.00
A. J. Dickey, ward 7, assessor . . .	142.50
Frank T. Provost, ward 8, assessor . . .	147.50
E. W. Brigham, assistant assessor . . .	257.50
P. A. Devine, assistant assessor . . .	25.00
W. G. Furnald, assistant assessor . . .	102.50
Hiram Forsaith, assistant assessor . . .	57.50
Nicholas Nichols, assistant assessor . . .	287.50
H. F. Stone, assistant assessor . . .	30.00
Isaac Whittemore, assistant assessor . . .	45.00

BOARD OF ASSESSORS.

Paid Joseph Z. A. Adam, interpreter . . .	20.00
C. A. U. Ouillet, interpreter . . .	30.00
Isaac Whittemore, 13 days, horse and carriage at \$1.25	16.25
John E. Stearns, 3 days, horse and carriage at \$1.25	3.75
D. O. Furnald, expenses to Con- cord two times	1.44

 \$3 005.94

CITY WEAIGHER.

Paid Jonathan S. Paige, 3 months' salary, from Jan. 1 to March 31, 1890	\$100.00
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CITY TAX COLLECTOR.

Paid George E. Morrill, quarter ending February 28, 1890	\$200.00
George E. Morrill, quarter ending June 1, 1890	200.00
George E. Morrill, balance of sal- ary as collector of taxes for year 1889	850.00
George E. Morrill, commission on old taxes	10.33

Paid George E. Morrill, 6 months' salary, ending November 30, 1890	\$400.00	
	<u> </u>	\$1,660.33
		<u> </u>
		\$16,509.41

HIGHWAY DISTRICT NO. 1.

Appropriation raised by tax		\$300.00
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EXPENDITURES.

LABOR.

Paid J. C. Ray, labor of men and teams, State Industrial School	\$130.50	
J. C. Ray, 29 $\frac{3}{4}$ days services as road surveyor	59.50	
	<u> </u>	\$190.00

SUNDRIES.

Paid J. C. Ray, 35 loads of gravel at 15 cents	\$5.25	
J. C. Ray, 12 posts at 15c.	1.80	
J. C. Ray, 135 feet of lumber	2.20	
	<u> </u>	9.25
Total expenditures		\$199.25
Amount transferred to reserved fund		100.75
		<u> </u>
		\$300.00

HIGHWAY DISTRICTS NOS. 2 AND 3.

Appropriation raised by tax		\$12,000.00
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RECEIPTS.

Received from George W. Weeks	\$30.00	
Received from Warren Harvey, use of derrick	30.00	
	<u> </u>	60.00
		<u> </u>
		\$12,060.00

EXPENDITURES.

LABOR.

Paid pay-roll, labor of men and teams:	
for the month of January	\$560.23
for the month of February	619.72
for the month of March	714.98
for the month of April	1,035.65
for the month of May	859.67
for the month of June	804.11
for the month of July	971.92
for the month of August	864.68
for the month of September	1,163.07
for the month of October	869.46
for the month of November	755.58
for the month of December	1,449.80
William Sanborn for November and December 1889, and January 1890	300.00
in district prior to February, 1890:	
Edward N. Baker superintend- ent, for 25 days labor	50.00
H. C. Dickey, 6 days labor, at \$1.50	9.00
A. McDougal, self and two-horse team	32.00
Martin Fitzgerald, labor of self <i>et al.</i> as stonecutters, at sundry places, as per bill (cesspool stone, etc.)	73.40
	<hr/>
	\$11,097.27
TOOLS.	
Paid J. Hadlock, for road machine	\$16.50
J. B. Varick, brackets, waste basket, etc.	1.27

Paid J. B. Varick, 21½ pounds steel crow bar	\$1.08
J. B. Varick, 1 No. 8 plow cleaver	.75
J. B. Varick, blacksmith's hammer	1.25
J. B. Varick Co., for 1 fiber pail .	.50
J. B. Varick Co., for 1 dozen shovels	11.00
J. B. Varick Co., for 1 dozen street hoes	5.00
J. B. Varick Co., for 1 set of stencil figures and letters	1.25
J. B. Varick Co., for 1 dozen Ames round point shovels	11.00
J. B. Varick Co., for 3 16-tooth steel rakes	1.50
J. B. Varick Co., for ½ dozen Ames L. H. Rd. Pt. shovels	4.00
J. B. Varick Co., for pail and dipper	.80
J. B. Varick Co., for one dozen street hoes	5.50
J. B. Varick Co., for 1 14-inch Wilder thermometer	1.00
J. B. Varick Co., for 1 broom . . . . .	.25
Killey & Wadleigh, for 1 dozen square pointed shovels	10.00
Killey & Wadleigh, for ½ dozen round point shovels	5.25
Killey & Wadleigh, for 1 T square	.50
Killey & Wadleigh, for 1 dozen O. H. Shovels	10.00
Killey & Wadleigh, for 2 mattocks	2.00
Killey & Wadleigh, for 2 handles	.40
Killey & Wadleigh, for 1 dozen street brooms	6.00
Killey & Wadleigh, for 1 dozen heavy brooms	4.50
Killey & Wadleigh, for 2 dozen brooms	12.00

Paid Killey & Wadleigh, for 1 dozen hoes	\$5.50	
Killey & Wadleigh, for 1 dozen snow shovels	3.50	
Killey & Wadleigh, for ½ dozen oak pick handles	1.13	
John B. Varick, tools	8.13	
Manchester hardware Co., for 1 12-tooth steel rake . . . . .	.40	
Manchester Hardware Co., for 1 pair of shears	1.00	
Manchester Hardware Co., for 1 basket	1.50	
Manchester Hardware Co., for 1 dozen pick handles	4.00	
Manchester Hardware Co., for 132 lbs. coil chain	7.92	
Manchester Hardware Co., for 3 lanterns with red globes	2.10	
Manchester Hardware Co., for 2 oak stable pails	1.00	
Manchester Hardware Co., for 1 2-foot rule . . . . .	.40	
Manchester Hardware Co., for 2 mattocks	1.50	
Manchester Hardware Co., for 5 scoop handles	1.00	
Manchester Hardware Co., for 1 scythe and snath	1.25	
Manchester Hardware Co., for 1 stone . . . . .	.10	
	<hr/>	\$153.73
EXPLOSIVES.		
Paid J. B. Varick Co., for powder	\$7.02	
J. B. Varick Co., for fuse	1.78	
J. B. Varick Co., for 50 4-foot fuse	1.50	
	<hr/>	\$10.30

SUNDRIES.

Paid People's Gas-Light Co., on Vine street	\$61.60
John J. Bell, rent of office	58.00
Thomas A. Lane, fountain in Dean avenue . . . . .	.60
Thomas A. Lane, gas light, Elm back street	1.10
Thomas A. Lane, pipe and fittings	8.87
Thomas A. Lane, labor on lantern, back of engine-house . . . . .	.25
J. B. Varick Co., for 15 pounds of wire spikes . . . . .	.53
J. B. Varick Co., for bolts . . . .	.25
J. B. Varick Co., for 2½ gallons of kerosene oil . . . . .	.30
J. B. Varick Co., for hardware . . .	8.80
J. B. Varick Co., for ½ dozen Belknap axle paste	1.20
Killey & Wadleigh, 1 bottle of glue . . . . .	.12
Killey & Wadleigh, bolts, wire, tallow, etc. . . . .	.39
Killey & Wadleigh, for sponges . .	.50
Killey & Wadleigh, for 5 pounds glass and putty . . . . .	.40
Manchester Hardware Co., for leather washers, axle grease, and road machinery steel . . . . .	.98
Manchester Hardware Co., for 64 pounds 1-inch oct. cast steel	7.68
Manchester Hardware Co., for 15 pounds 4-penny nails at 3½ . . . .	.53
Manchester Hardware Co., for 1 ball of twine . . . . .	.50
Manchester Hardware Co. for wire, spikes, washers, etc. . . . .	.29

Manchester Hardware Co., for repairs on curry comb	\$0.15
Manchester Hardware Co., for wire, spikes, nails, etc.	1.83
Manchester Hardware Co., for 1 brush . . . . .	.10
Manchester Hardware Co., for 25 pounds steel wire spikes . . . .	.88
S. C. Forsaith Machine Co., for Georgia Pine, machine, steel, and labor, for road roller	7.70
George W. Reif, for black walnut, Michigan pine, and labor	2.56
Temple & Farrington Co., for blank books, time books, pens, books	30.30
J. Stickney, for $\frac{1}{2}$ pound rubber bands . . . . .	.75
Eager & Rand, for $\frac{1}{4}$ gross matches . . . . .	.14
Head & Dowst, for lumber and labor on table	19.42
Burns & Poor, for 1 barrel Cumberland coal, on Lake avenue and Wilson streets	1.25
Boston & Maine R. R. for freight	3.64
Manchester horse R. R. for 100 tickets	4.80
E. T. James, for horse and carriage hire	40.25
Heath & Stevens, for labor and lead, district 3	1.50
Stark Mills, for use of wagon from July 1, to August 16	20.00
Pike & Heald, for solder pail . . . . .	.10
L. N. Westover . . . . .	.40
	<hr/>
	\$288.66

BLACKSMITHING AND REPAIRS.

Paid John T. Beach, materials and labor on tools, teams, etc.	\$29.79	
G. H. Booth, blacksmithing	5.50	
Joseph O. Tremblay	6.60	
Sanborn Carriage Co., welding 4 links in chain . . . . .	.20	
W. H. Vickery, 4 keys, etc.	1.95	
L. M. Aldrich, setting vials in levels . . . . .	.85	
L. M. Aldrich, filing saws [5]	1.60	
Flint & Little, 3 glasses and repair- ing level . . . . .	.62	
Thomas Hickey, sharpening 2 bars	.20	
	<hr/>	\$47.31

MATERIALS.

Paid D. Connor, 25 loads paving-stones at 25 cents. for Welch avenue	\$2.50	
S. C. Forsaith Machine Co., 80 feet sheathing, 9 feet crown mold- ing, and 13 feet clear spruce, planed	2.65	
Eager & Rand, 16 gallons of oil	2.08	
Eager & Rand, 50 gallons of oil	6.50	
Eager & Rand, 1 box of salt . . . . .	.20	
Eager & Rand, 15 gallons of oil	1.95	
Eager & Rand, tallow	3.25	
Eager & Rand, soap . . . . .	.15	
Eager & Rand, 5 gallons of oil . . . . .	.65	
Eager & Rand, 2 dozen wicks . . . . .	.20	
Thomas L. Thorpe, 50 lbs. No. 1 cop waste	5.00	
Head & Dowst, for 442 loads of gravel	93.70	
Head & Dowst, 2 loads of stone	3.50	

Paid F. S. Bodwell, 1 stone hitching post	\$9.50	
Joseph A. Poor, 40 loads of gravel	4.00	
Horace Willey, labor and gravel in widening highway	15.00	
Addison Gray, 511 loads of gravel	51.10	
S. C. Forsaith Machine Co., 510 feet spruce at \$17	8.67	
	<u>8.67</u>	\$210.60
Total expenditures		\$11,807.87
Amount transferred to reserved fund		252.13
		<u>252.13</u>
		\$12,060.00

HIGHWAY DISTRICT No. 4.

Appropriation raised by tax	\$500.00
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EXPENDITURES.

PAY-ROLL.

Paid R. N. Whittemore, team, etc.,	\$415.75	
Ira Moore	3.00	
J. Burgess	42.75	
William Buckley	3.00	
Byron Moore	10.00	
W. Burgess	15.00	
C. C. Webster, team, etc.	8.00	
Edward R. Wood	2.25	
	<u>2.25</u>	
Total expenditure	\$499.75	
Balance . . . . .	.25	
	<u>.25</u>	\$500.00

HIGHWAY DISTRICT No. 5.

Appropriation raised by tax \$500.00

EXPENDITURES.

LABOR.

Paid labor of men and teams as per pay-roll	\$6.50	
Mark E. Harvey, superintendent	70.50	
Frank Platts	2.25	
E. R. Hill	8.63	
Shirley Merrill	3.00	
W. P. Merrill	1.50	
Oliver Merrill	13.12	
John Kearns	3.00	
Mrs. Mary Cressey	7.50	
W. W. Dickey	7.50	
E. S. Harvey	1.50	
Timothy Kearns	57.76	
Henry Golden	80.25	
Charles Pierce	3.75	
Charles Wheeler, as per pay-roll	6.00	
	—	\$272.76

TEAMS.

Paid labor of teams, as per pay-roll	\$5.00	
Mark E. Harvey, superintendent	116.00	
W. W. Dickey	41.00	
C. N. Harvey	6.00	
E. S. Harvey . . . . .	.75	
	—	168.75

BRIDGES.

Paid S. C. Forsaith Machine Company, 32 feet spruce joist at \$17	\$0.54
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Paid S. C. Forsaith Machine Company, 939 feet hemlock plank at \$14 .	\$13.15	
J. B. Varick Company, 10 pounds 6-penny nails30	
	—	\$13.99

GRAVEL.

Paid Libbey Brothers, 53 loads of gravel	\$5.30	
Libbey Brothers, 10 loads of gravel	1.00	
Charles Wheeler, 21 loads of gravel	2.10	
Charles Wheeler, 68 loads of gravel	6.80	
Mark E. Harvey, 103 loads of gravel	10.30	
	—	25.50

SUNDRIES.

Paid J. B. Varick Company, 1 Doe cut- ter point	\$0.65	
J. B. Varick Company, 1 pick- handle . . . . .	.20	
R. W. Flanders, blacksmithing .	4.90	
	—	5.75
Total expenditures		\$486.75
Balance transferred to reserved fund		13.25
		<u>\$500.00</u>

HIGHWAY DISTRICT NUMBER 6.

Appropriation raised by tax	\$500.00
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EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-roll :	
A. J. Peaslee, superintendent	\$107.00
Fred L. Peaslee	29.60

Paid Fred Keniston	\$4.88	
Greenleaf Coleman	13.00	
I. T. Webster	7.87	
E. J. Matott	9.00	
F. L. Blaisdell	54.76	
Bert Webster	6.38	
John Emerson	8.63	
Jonas Tirrell	7.13	
Peter Matott	7.12	
H. Corning	7.87	
Peter Cullom	1.50	
A. Cullom	1.50	
James Lynch	1.50	
Ely Gilbert	1.50	
	<u> </u>	\$269.34

TEAMS.

Paid for teams, as per pay-roll	\$30.75	
Fred L. Peaslee	73.50	
D. H. Dickey	22.00	
Greenleaf Coleman	32.00	
John S. Webster	34.00	
I. T. Webster	28.31	
David Dickey	5.25	
	<u> </u>	225.81

SUNDRIES.

Paid John B. Varick Company, for 1 Doe plow point, No. 3	\$0.55	
James Morrison, sharpening picks	1.60	
J. S. Webster, covering-stone for culvert	1.50	
	<u> </u>	3.65
Total expenditure		\$498.80
Amount transferred to reserved fund		1.20
		<u> </u>
		\$500.00

HIGHWAY DISTRICT NUMBER 7.

Appropriation raised by tax	\$1,300.00	
Transferred from reserved fund	8.03	
	<hr/>	\$1,308.03

EXPENDITURES.

Paid labor of men and teams, as per pay-rolls, January	\$22.12	
labor of men and teams, as per pay-rolls, February	51.87	
labor of men and teams, as per pay-rolls, March	72.24	
labor of men and teams, as per pay-rolls, April	425.75	
labor of men and teams, as per pay-rolls, May	184.11	
labor of men and teams, as per pay-rolls, June	294.69	
labor of men and teams, as per pay-rolls, July	6.00	
labor of men and teams, as per pay-rolls, August	115.99	
labor of men and teams, as per pay-rolls, September	19.50	
labor of men and teams, as per pay-rolls, October	31.00	
labor of men and teams, as per pay-rolls, November	15.50	
	<hr/>	\$1,238.77

LUMBER.

Paid Head & Dowst, 257 feet spruce boards	\$4.11	\$4.11
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TOOLS.

Paid J. B. Varick Co., 2 Doe E No. 5 plow-points	\$1.40	
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Paid J. B. Varick Co., 2 Doe E No. 5 plow-points	\$1.40	
J. B. Varick Co., ½ dozen pick- handles	1.00	
J. B. Varick Co., 1 barrow	2.00	
J. B. Varick Co., 3 lanterns with ruby globes	3.00	
J. B. Varick Co., 2 ruby globes	1.50	
Killey & Wadleigh, 1 cesspool scoop . . . . .	.85	
	<hr/>	\$11.15

STONE.

Paid Charles Still, 22 loads of paving- stone	\$33.00	
F. S. Bodwell, 1 load covering- stone	3.00	
	<hr/>	\$36.00

BLACKSMITHING.

Paid Welcome & Son, for blacksmithing	\$16.50	\$16.50
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SUNDRIES.

Paid John B. Varick Co., 6 pounds 10- penny nails	\$0.15	
T. A. Lane, 4 heavy dippers80	
T. A. Lane, 10-foot chain . . . . .	.20	
T. A. Lane, 3.7 feet ½ inch E. pipe . . . . .	.25	
T. A. Lane, cutting . . . . .	.10	
	<hr/>	\$1.50
Total expenditures		\$1,308.03

HIGHWAY DISTRICT No. 8.

RECEIPTS.

Appropriation raised by tax	\$800.00
From Samuel G. Reed, overdraft	1.00
	<hr/>
	\$801.00

EXPENDITURES.

LABOR OF MEN AND TEAMS, LEVI J. PROCTOR, SUPERINTENDENT.

Paid Levi J. Proctor, superintendent	\$168.50	
Samuel McDonald	37.12	
Robert I. Stevens	1.50	
Charles E. Richardson	10.50	
J. H. Proctor	38.25	
George W. Lawrence	3.00	
A. J. Haselton	75.00	
John Shea	4.50	
Charles Spofford	25.12	
Elmer Reed	46.87	
George Davis	10.12	
John Foley	5.62	
Dennis Shea	12.75	
George Spofford	10.12	
James M. Crombie	12.00	
Willie Clancy	12.00	
Benjamin P. Kemell	1.50	
	<hr/>	\$474.47

TEAMS.

Paid Levi J. Proctor, supt.	\$177.00	
George Smith	23.00	
Amos LaTouch	59.00	
S. G. Reed	8.00	
J. H. Proctor	35.00	
Manchester Hardware Co., 1 E 4 plow-point . . . . .	.70	
Manchester Hardware Co., 1 E 4 plow-point, with cutter . . . . .	.90	
Manchester Hardware Co., 2 round pointed shovels	1.86	
Manchester Hardware Co., 2 steel rakes	1.30	

Paid Manchester Hardware Co., 1 E 4 plow-point	\$0.70	
Manchester Hardware Co., 1 E 4 plow point, with cutter . . . . .	.90	
J. B. Varick Co., 2 bush scythes	1.20	
J. B. Varick Co., 2 14-tooth steel rakes . . . . .	.80	
	<hr/>	\$310.36

BLACKSMITHING AND SUNDRIES.

Paid H. F. Thompson, sharpening drills, picks, etc.	\$5.20	
Head & Dowst, 50 feet drag plank	2.00	
J. B. Varick Co., 20 4½ x ½ inch carriage bolts . . . . .	.70	
	<hr/>	\$7.90
Total expenditures		\$792.73
Transferred to reserved fund		8.27
		<hr/>
		\$801.00

HIGHWAY DISTRICT No. 9.

Appropriation raised by tax	\$500.00
Amount transferred from bridges	72.79
	<hr/>
	\$572.79

EXPENDITURES.

LABOR OF MEN.

Paid Alfred Boyce	\$123.00
N. W. Paige	7.00
E. Corning	55.11
L. C. Paige	2.25
G. W. Carr	9.00
Oliver Merrill	35.62

Paid Luther Healey	\$24.37	
William Carr	5.62	
Wesley Platts	6.75	
George McQuestion	16.50	
Mrs. Rebecca Garmon	5.25	
George Dunbar	2.50	
	<u> </u>	\$292.97

LABOR OF TEAMS.

Paid Alfred Boyce	\$137.62	
G. W. Carr	8.15	
William Carr	4.05	
Mrs. Rebecca Garmon	3.75	
George Dunbar	2.50	
	<u> </u>	\$156.07

TOOLS.

Paid Manchester Hardware Co. for 1 ax	\$0.38	
Manchester Hardware Co. for 1 mattock and handle . . . . .	.90	
Manchester Hardware Co. for 2 round-point shovels	1.86	
	<u> </u>	\$3.14

SUNDRIES.

Paid S. C. Forsaith Machine Co., 5,198 feet 3-in. hemlock for bridge	\$72.77	
Manchester Hardware Co., 2 kegs 6-penny cut spikes	4.20	
Manchester Hardware Co., barbed wire, etc.	7.66	
	<u> </u>	\$84.63
Total expenditures		\$536.81
Transferred to reserved fund		35.98
		<u> </u>
		\$572.79

HIGHWAY DISTRICT No. 10.

Appropriation raised by tax	\$3,300.00
Amount transferred from reserved fund	57.01
	<hr/>
	\$3,357.01

EXPENDITURES.

LABOR OF MEN AND TEAMS.

Paid pay-roll, labor of men and teams :

for January	\$64.00
for February	124.65
for March	207.88
for April	296.00
for May	447.31
for June	637.81
for July	726.50
for August	253.64
for September	184.53
for November	29.50
for December	71.13
	<hr/>
	\$3,042.95

TOOLS.

Paid Manchester Hardware Co., 6 snow shovels	\$1.50
Manchester Hardware Co., 9 street hoes	4.50
Manchester Hardware Co., 1 dozen sledge handles . . . . .	.75
Manchester Hardware Co., 4 canal barrows	10.00
Manchester Hardware Co., tools	8.07
Killey & Wadleigh, 6 scoop han- dles	2.38

Paid Killey & Wadleigh, 1 bent fork handle	\$0.15
Killey & Wadleigh, 18 hoe handles	3.75
Killey & Wadleigh, 18 Harvey's picks	19.50
Killey & Wadleigh, 4 brooms	2.17
Killey & Wadleigh, 2 brooms	1.00
Killey & Wadleigh, 1 cesspool scoop . . . . .	.75
Killey & Wadleigh, 1 dozen square-pointed shovels	10.00
Killey & Wadleigh, 1 padlock . . . . .	.90
Killey & Wadleigh, 1 saw	2.00
J. Stickney, 2 oil suits at \$2.25	4.50
J. Stickney, 2 rubber hats, at \$0.75	1.50
A. N. Clapp, 2 ax handles . . . . .	.40
A. N. Clapp, 1 pail . . . . .	.10
A. N. Clapp, 1 ax . . . . .	.90
A. N. Clapp, 2 pails . . . . .	.60
D. F. Cressey, 1 snow plow	5.00
George L. Robinson, 1 pair pure gum rubber boots	3.25

 \$83.67

LUMBER, STONE, ETC.

Paid S. C. Forsaith Machine Co., 2,231 feet spruce plank at \$17	\$37.93
S. C. Forsaith Machine Co., 1,053 feet spruce plank at \$17	17.90
S. C. Forsaith Machine Co., 214 feet spruce boards, 1 x 8 at \$17	3.64
Thomas Holbrook, for 280 loads of gravel at 15 cents	42.00
D. F. Cressey, for sharpening picks, etc.	7.40
A. C. Wallace, 1,120 feet 3-in. hemlock plank, at \$14	15.68

Paid J. K. McQueston, 50 loads of gravel	\$5.00	
Head & Dowst, 194 loads of gravel	19.40	
George W. Riddle, 84 loads of clay at 17 cents	14.28	
	<u> </u>	\$163.23

SUNDRIES.

Paid People's Gas-Light Company	\$4.28	
T. A. Lane, for 12 feet suction hose, putting on couplings	21.75	
Manchester Hardware Co., 3 E No. 3 plow points	1.80	
Manchester Hardware Co., 1 No. 5 plow clevis . . . . .	.65	
P. Duval, for filing 6 saws	1.20	
J. F. Wyman, wood and coal	15.00	
Temple & Farrington Co., pens and ink	19.74	
A. N. Clapp, 25 pounds spikes . . . . .	.80	
A. N. Clapp, 1 gallon of oil . . . . .	.15	
A. N. Clapp, nails, sandpaper, etc. . . . .	.39	
A. N. Clapp, 2 gallons of oil . . . . .	.30	
A. N. Clapp, 20 spikes . . . . .	.60	
A. N. Clapp, 1 gallon of oil . . . . .	.15	
Charles S. Fisher, 3 keys . . . . .	.35	
	<u> </u>	\$67.16
Total expenditures		<u>\$3,357.01</u>

HIGHWAY DISTRICT No. 11.

Appropriation raised by tax	\$1,000.00
Amount transferred from reserved fund	75.00
	<u> </u>
	\$1,075.00

EXPENDITURES.

Paid labor of men and teams, as per pay-roll:

January	\$62.75	
February	42.25	
March	62.75	
April	89.00	
May	159.75	
June	428.00	
July	81.50	
August	6.75	
December	72.25	
	<hr/>	\$1,005.00

BLACKSMITHING.

Paid G. R. Ferson, sharpening picks	\$6.30	
Joseph Greenwood, sharpening picks	3.25	
	<hr/>	\$9.55

LUMBER.

Paid Head & Dowst, 300 feet spruce plank	\$5.10	
C. H. Hutchinson, 1 grate, 98 lbs. at 3 cents	2.94	
Pettee & Adams, 1 bbl. N. cement	1.45	
David Wells, 40 chestnut posts at 15 cents	6.00	
	<hr/>	\$15.49

TOOLS.

Paid Manchester Hardware Co., 6 shovels	\$6.00	
Manchester Hardware Co., 2 steel rakes	1.25	
Manchester Hardware Co., 4 picks	4.60	

Paid Manchester Hardware Co., 4 pick handles	\$0.67	
Manchester Hardware Co., 2 red lantern globes . . . . .	.67	
Manchester Hardware Co., 6 extra pick handles	1.00	
Manchester Hardware Co., 4 red lantern globes	1.34	
Manchester Hardware Co., 6 round-point shovels	5.58	
Manchester Hardware Co., for 1 No. 8 landside D. on plow	1.15	
Manchester Hardware Co., for 1 No. 8 in. coulter	2.75	
J. B. Varick Co., for 2 stone pickers	1.20	
J. B. Varick Co., for 3 street brooms	1.25	
J. B. Varick Co., 6 pick handles	1.00	
J. B. Varick Co., 6 contractor's picks	5.00	
J. B. Varick Co., 6 pick handles	1.00	
	<hr/>	\$34.46
Total expenditures		\$1,064.50
Transferred to reserved fund		10.50
		<hr/>
		\$1,075.00

 HIGHWAY DISTRICT No. 12.

Appropriation raised by tax	\$300.00
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EXPENDITURES.

LABOR.

Paid city farm	\$193.75
George Greeley	5.25

Paid Melvin Hall	\$8.00	
E. Kendall	5.25	
Michael Lowe	9.50	
S. C. Forsaith Machine Co., 40 hours' labor on road fence	16.00	
	<u> </u>	\$237.75

TEAMS.

Paid J. H. Colburn and team	\$16.00	
James Nutt and team	16.00	
John Proctor and team	11.00	
	<u> </u>	\$43.00

SUNDRIES.

Paid S. C. Forsaith Machine Co., 237 lbs. of iron, on r'd fence	\$10.11	
Manchester Hardware Co., 3 dozen 4½ x 7-16 carriage bolts . . . . .	.09	
John Moss, use of watering trough for 1889 and 1890	6.00	
Palmer & Garmon, brimstone, and labor on fence	2.85	
	<u> </u>	\$19.05
Total expenditures		\$299.80
Balance transferred to reserved fund20
		<u> </u>
		\$300.00

HIGHWAY DISTRICT No. 13.

Appropriation raised by tax	\$200.00
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EXPENDITURES.

LABOR.

Paid J. H. Campbell	\$22.00
F. Jewell	32.25

Paid J. Jewell	\$30.75	
A. Jewell	17.25	
L. Campbell	3.75	
Eben Carr	1.50	
	<u> </u>	\$107.50

TEAMS.

Paid H. Willey	\$10.00	
L. Campbell	28.00	
A. B. Campbell	8.00	
Mrs. J. P. Fellows	20.25	
	<u> </u>	\$66.25

GRAVEL.

Paid H. Willey & Co., gravel	\$11.00	
H. Willey & Co., stone	2.00	
Wm. Campbell	7.40	
	<u> </u>	\$20.40

Total expenditures	\$194.15
Transferred to reserved fund	5.85
	<u> </u>
	\$200.00

NEW HIGHWAYS.

Appropriation raised by tax	\$9,000.00
Amount transferred from reserved fund	75.61
	<u> </u>
	\$9,075.61

EXPENDITURES.

LABOR.

Paid labor of men and teams, per pay-rolls, District No. 2:	
January	\$278.49
February	302.42
March	218.79

April	\$703.15	
May	1,610.85	
June	1,133.37	
July	602.92	
August	286.00	
September	534.49	
October	479.75	
November	312.86	
December	5.00	
	<u> </u>	\$6,468.09

Paid labor of men and teams, per pay-roll, District No. 7 :

April	175.00
August	75.00
October	191.00

Paid labor of men and teams, per pay-roll, district No. 10

829.18	
<u> </u>	\$1,270.18

George Whitford, building Beauport street on contract	\$500.00	
Walter Neal, labor of self and four men on fence	26.00	
Marshall & Underhill, stone work and filling, as per contract with Mayor and committee on streets	150.00	
	<u> </u>	\$676.00

TOOLS.

Paid J. Hadlock, road-machine	\$258.00
Manchester Hardware Co., 1 dozen sledge handles	2.25
Manchester Hardware Co., 1 dozen square-point shovels	11.15
Manchester Hardware Co., 1 black C. wrench . . . . .	.69
Manchester Hardware Co., 2 E. No. 5 Doe plow points	1.50

Paid Manchester Hardware Co., 3 E.	
No. 5 Doe plow-points	\$2.25
Killey & Wadleigh, 1 15-inch Coes screw wrench	1.00
Killey & Wadleigh, 1 padlock . .	.20
Killey & Wadleigh, 2 2-gallon cans	.80
Killey & Wadleigh, 2 dozen pick handles	2.50
J. B. Varick Co., 1 dozen D. han- dles, round-point shovels	8.00
J. B. Varick Co., 1 E. No. 8 plow	18.00
J. B. Varick Co., 1 plow handle . .	.75
J. B. Varick Co., 6 No. 8 plow- points	5.70
J. B. Varick Co., 2 mattocks	1.50
J. B. Varick Co., 1 pair dividers . .	.40
J. B. Varick Co., 2 mattocks and 2 handles	2.24
J. B. Varick Co., 4½ gallons ker- osene oil . . . . .	.54
J. B. Varick Co., round iron steel nails, etc. . . . .	.31
J. B. Varick Co., 11 pounds Oct. cast steel	1.65
J. B. Varick Co., 1 saw blade . . . .	.75
J. B. Varick Co., 1 Doe E. No. 8 moldboard	4.80
J. B. Varick Co., 1 Doe E. No. 8 plow-point . . . . .	.90
J. B. Varick Co., 2 Doe E. No. 5 plow-points	1.50
J. B. Varick Co., 6 Ames round- point shovels	4.00
A. N. Clapp, for tools	3.22
	<hr/>
	\$334.60

EXPLOSIVES.

Paid Killey & Wadleigh, 1 roll blasting wire	\$0.50	
Killey & Wadleigh, 9 pounds of powder	1.35	
Killey & Wadleigh, 150 plat. fuse	7.30	
Killey & Wadleigh, 4 pounds blasting powder . . . . .	.60	
Killey & Wadleigh, 25 feet fuse . . . . .	.15	
Killey & Wadleigh, 100 pounds No. 1 forcite	45.00	
Killey & Wadleigh, 100 pounds No. 1 forcite	45.00	
Killey & Wadleigh, forcite, powder, and fuse	90.12	
Killey & Wadleigh, 12½ pounds powder	1.88	
Killey & Wadleigh, 100 feet W. P. fuse . . . . .	.60	
	<hr/>	\$192.50

SUNDRIES.

Paid Manchester Hardware Co., 1 pair hinges and screws	\$0.10
Manchester Hardware Co., 1 hinge, hasp, and screws . . . . .	.10
Killey & Wadleigh, 5 pounds of waste . . . . .	.50
Killey & Wadleigh, 2 gallons lard oil	1.50
Killey & Wadleigh, 2 gallons kerosene oil . . . . .	.24
Killey & Wadleigh, 1 gallon kerosene oil . . . . .	.14
Killey & Wadleigh, 2 gallons kerosene oil . . . . .	.24

Paid Killey & Wadleigh, 2 gallons kerosene oil	\$0.24
Killey & Wadleigh, for 1 $\frac{3}{4}$ pounds Eagle packing . . . . .	.79
J. B. Varick Co., 35 pounds Oct. cast steel	5.25
J. B. Varick Co., 2 gallons kerosene oil . . . . .	.36
J. B. Varick Co., 2 gallons kerosene oil . . . . .	.24
A. N. Clapp, for oil	3.03
	<hr/>

\$12.73

REPAIRS.

Paid S. C. Forsaith Machine Co., 66 $\frac{1}{2}$ hours' labor on road roller	\$26.60
S. C. Forsaith Machine Co., 9 pounds Norway iron . . . . .	.39
S. C. Forsaith Machine Co., repairing copper tube	1.75
S. C. Forsaith Machine Co., 48 feet lumber, pointed	1.20
Thomas A. Lane, 1 gauge glass and 4 packings . . . . .	.27
Thomas A. Lane, 12 feet, 2-inch canvas hose, for steam drill	5.40
Thomas A. Lane, labor, etc.	1.98
Thomas A. Lane, 5 pounds sheet rubber	2.00
9 $\frac{5}{8}$ pounds fine marline	1.73
Thomas A. Lane, 25 feet 6-inch ply steam hose	17.00
Thomas A. Lane, labor on hose and winding	7.15
Thomas A. Lane, pipe, nips, valves, etc.	5.74
George W. Rief, lumber, nails, and labor	3.23
	<hr/>

\$74.44

FREIGHT.

Paid Concord Railroad, freight on steel edges	\$0.25	
Concord Railroad, freight on road scraper	6.66	
Boston & Maine Railroad, freight on spindle . . . . .	.55	
	—	\$7.46

BLACKSMITHING.

Paid J. Tremblay, sharpening drills, etc.	\$7.40	
N. Decoteau, sharpening drills, etc.	4.55	
G. H. Booth, sharpening picks, etc.	4.20	
D. F. Cressey, sharpening tools, etc.	23.46	
	<u> </u>	\$39.61
Total expenditures		<u>\$9,075.61</u>

DAMAGES FOR LAND TAKEN FOR HIGHWAYS.

Appropriation raised by tax \$1,000.00

EXPENDITURES.

DAMAGES AWARDED BY MAYOR AND ALDERMEN.

Paid Daniel Fogg, land damage on River road, Amoskeag village	\$9.33
William Stearns, land damage on River road, Amoskeag village	22.50
Hiram Stearns, land damage on River road, Amoskeag village	8.88
Martha Stearns, land damage on River road, Amoskeag village	18.06

Paid Ruth Stearns, land damage on River road, Amoskeag village	\$40.83	
Clarence Stearns, land damage on River road, Amoskeag village	23.25	
Mrs. Welch, land damage on River road, Amoskeag village . . .	36.37	
James M. Webber, land damage on River road, Amoskeag village	48.94	
Henry Sachs, for land damage . .	<u>500.00</u>	\$708.16

LAND.

Paid Charles N. Heald for land, as per deed of August 15, 1890 . . .	\$100.00	
Charles P. Cummings, for land deeded to city, August 21, 1890, and for release of same date . .	<u>50.00</u>	\$150.00
Total expenditures		\$858.16
Amount transferred to reserved fund		<u>141.84</u>
		\$1,000.00

WATERING STREETS.

Appropriation raised by tax	\$7,500.00
Amount transferred from reserved fund	<u>93.00</u>
	\$7,593.00

EXPENDITURES.

LABOR OF MEN AND TEAMS.

Paid labor, as per pay-roll, district No. 2, April	\$170.00
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Paid labor, as per pay-roll, district No. 2,		
May	\$193.98	
labor, as per pay-roll, district No.		
2, June	232.00	
labor, as per pay-roll, district No.		
2, July	840.99	
labor, as per pay-roll, district No.		
2, August	487.50	
labor, as per pay-roll, district No.		
2, September	341.25	
labor, as per pay-roll, district No.		
2, October	71.37	
labor, as per pay-roll, district No.		
2, November	111.38	
labor, as per pay-roll, district No.		
2, December	99.62	
labor, as per pay-roll, district No.		
10, April	32.00	
labor, as per pay-roll, district No.		
10, May	68.00	
labor, as per pay-roll, district No.		
10, June	130.00	
labor, as per pay-roll, district No.		
10, July	252.00	
labor, as per pay-roll, district No.		
10, August	247.00	
labor, as per pay-roll, district No.		
10, September	157.00	
labor, as per pay-roll, district No.		
10, October	10.00	
	—	\$3,444.09

WATER.

Paid Manchester Water-Works, for water	
for April	\$680.00
Manchester Water-Works, for water	
for June	720.00

Paid Manchester Water-Works, for water for September	\$700.00	
Manchester Water-Works	265.50	
Manchester Water-Works	700.00	
	<hr/>	\$3,065.50

REPAIRS.

Paid T. A. Lane, labor on fountain, Dean avenue	\$0.60
T. A. Lane, 1 coupling and labor, watering troughs	1.16
T. A. Lane, labor on stand-pipes in April	9.00
T. A. Lane, labor and materials on watering troughs, May	2.89
T. A. Lane, labor and materials, watering troughs and fountains	13.68
T. A. Lane, labor and materials, stand-pipes	12.89
T. A. Lane, labor and materials, stand-pipe, Parker street, dis- trict 10	16.47
T. A. Lane, 8 2-inch globe valves, district 10	22.74
T. A. Lane, 2 2-inch globe valves, district 10	7.81
T. A. Lane, labor on stand-pipes, district 10	8.25
T. A. Lane, labor on fountain, dis- trict 10 . . . . .	.53
T. A. Lane, piping, labor and ma- terials, Weston & Hill fountain	12.90
T. A. Lane, labor on trough, at Head & Dowst's	1.33
T. A. Lane, labor on stand-pipe, near Gov. Weston's house . . . . .	.60
T. A. Lane, labor on stand-pipe, Pennacook and Pine, Walnut and Harrison	2.25

Paid T. A. Lane, labor on Carrier fountain	\$0.40
T. A. Lane, labor, dippers, pipe, etc., on watering troughs . . .	11.81
T. A. Lane, labor on watering trough, South Manchester, etc.	3.19
T. A. Lane, 2 heavy dippers, etc.	.92
T. A. Lane, labor, hemp packing for watering troughs, etc. . .	6.21
T. A. Lane, labor, plumbing materials on watering troughs . . .	2.38
T. A. Lane, labor, stand-pipe . .	4.10
T. A. Lane, 4 dippers and labor on same	1.55
T. A. Lane, labor and materials on troughs and fountains, November 5 to 14	12.24
T. A. Lane, labor and materials in district No. 10, November 8	7.71
T. A. Lane, labor on fountains, in district 10	1.05
T. A. Lane, labor and materials on troughs and fountains . . .	13.58
L. Wolf, repairs on watering troughs, etc.	7.70
Manchester Locomotive Works, 1 gate dome, 98 pounds	2.94
Pike & Heald, 10 pounds of copper, at 30 cents	3.00
Pike & Heald, 4 pounds of solder, at 20 cents . . . . .	.80
Pike & Heald, 3 leather tubes, at \$2.50	7.50
Pike & Heald, 2 days' labor, 2 men repairing at \$5.50, on sprinklers	11.00
Pike & Heald, materials and labor repairing sprinklers	2.27

Paid J. B. McCrillis & Son, iron work and materials, sprinklers, June and July, 1890	\$97.58
J. B. McCrillis & Son, painting and lettering sprinklers and iron work, etc., on sprinklers, April	23.45
J. B. McCrillis & Son, repairs on water cart	11.22
John T. Beach, wood tank for sprinkler No. 3	50.00
John T. Beach, wood frames	24.00
John T. Beach, 30 long bolts	3.00
John T. Beach, taking off old iron, repairing irons and ironing tank	55.00
John T. Beach, taking off springs, repairing and putting on	6.00
John T. Beach, 2 new tires, repairing wheels, and tri-bolt	10.00
John T. Beach, 76 carriage bolts, and 2 bolts, $\frac{3}{4}$ -inch	4.65
John T. Beach, repairing 2 neck yokes, links, staples, etc.	1.25
John T. Beach, repairing gate valves, making connections, etc.	7.00
John T. Beach, drilling holes in axles, and putting in pins	1.00
John T. Beach, 2 hoops on turret and fitting on	1.00
John T. Beach, materials and labor, draw hooks, etc.	18.26
John T. Beach, repairing wood and iron work, Monitor No. 1	11.85
John T. Beach, painting Monitor No. 1	27.00
John T. Beach, painting Monitor No. 2	27.00

PAVING STREETS.

447

John T. Beach, repairing wood and iron work, Monitor No. 2	\$10.85	
John T. Beach, other repairs	10.00	
D. F. Cressey, repairs on water cart, district No. 10	6.25	
G. A. Durgin, mending, painting, and varnishing street sprinkler	20.00	
A. Filion, repairing water cart, district No. 10	10.50	
A. Filion, crown for water cart, district No. 10	1.50	
H. C. Ranno & Son, rubber spring and pair straps	2.10	
A. H. Stark, painting sprinkler	27.00	
	<hr/>	\$680.91

NEW WATER CARTS.

Paid J. B. McCrillis & Son, 1 new water cart, as per contract	\$400.00
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SUNDRIES.

Paid Manchester Hardware Co., 1 30-foot wire- spring cushion on water cart	\$2.50
Total expenditures	<hr/> \$7,593.00

PAVING STREETS.

Appropriation raised by tax	\$5,500.00	
Amount transferred from reserved fund	1,133.75	
	<hr/>	\$6,633.75

EXPENDITURES.

LABOR.

Paid labor of men and teams, per pay-roll, District No. 2 :		
January	\$17.00	
March	8.25	
April	164.74	

May	\$397.54	
June	269.54	
July	426.65	
August	242.24	
September	427.68	
October	320.93	
November	179.73	
December	24.50	
	<hr/>	\$2,478.80

LABOR, DISTRICT NO. 10.

Paid men and teams, as per pay-roll:

April	\$17.86	
May	39.00	
June	19.15	
July	63.88	
August	143.33	
September	119.38	
October	232.46	
November	333.81	
December	30.00	
	<hr/>	\$998.87

LABOR, DISTRICT NO. 7.

Paid men and teams, as per pay-roll	\$50.00	
men and teams, as per pay-roll, Oc- tober	80.96	
	<hr/>	\$130.96

STONE.

Paid George Rivers, 9 loads of paving- stone	\$14.40
John B. Clarke, 21 loads of pay- ing-stone	21.00
Ebenezer Hartshorn, 45 loads of paving-stone	27.00

Paid J. H. Proctor, 16 loads of paving-stone	\$25.60	
J. L. Fogg, 18 loads of paving-stone	18.00	
Josiah Carpenter, 25 loads of paving-stone	13.00	
P. McQuillan, 67 loads of paving-stone	107.20	
Mead & Mason, 12 loads of paving-stone	18.00	
Charles A. Bailey, 133 feet, at 80 cents, paving-stone, corner Hanover and Chestnut	106.40	
Charles P. Still, 65 loads of paving-stone	97.50	
	<hr/>	\$448.10

STREET CROSSINGS AND OTHER WORK.

Paid Charles H. Robie's account :

2 crossings, Pine and North streets	51.55 yds.	
1 crossing, Bridge and Ashland streets	33.77 yds.	
1 crossing, Webster and Elm streets	88.33 yds.	
2 crossings, Central and Franklin streets	64.00 yds.	
district 10, 1 crossing, McGregor and Marion	171.58 yds.	
work at Canal bridge, Granite street	281.06 yds.	
<hr/>		
Total number of yds.	690.29 yds.	at 65c. \$448.69
one crossing, T. D., Lincoln, near Laurel street	17.77 yds.	
one crossing, T. D., Beech, south of Spruce	27.86 yds.	
<hr/>		
Total number of yds.	45.63 yds.	at 35c. 15.97
one crossing, Hanover and Pine streets	31.50 yds.	at 65c. 20.47
repairs on crossing, Hanover and Beech streets	40.70 yds.	at 35c. 14.25
repairs on 3 crossings, Maple and Chestnut streets	101.30 yds.	at 35c. 35.45
1 crossing at Elm street, City Hall	66.00 yds.	at 65c. 42.90
concrete work, Bridge, Canal	239.39 yds.	at 35c. 83.78
concrete work on Amoskeag bridge	1,190.72 yds.	at 75c. 893.04
crossings at sundry places (new)	569.30 yds.	at 65c. 370.04
repairing crossing, Central and Pine	32.33 yds.	at 35c. 11.31

concrete work, Main street and engine-house . . .	628.23 yds. at 75c.	471.17
relaying concrete at Bailey's lot	52.44 yds. at 45c.	23.60
part sidewalk, A. Blood's block, Elm and Dean streets ½ cost changing and relaying concrete, C. Williams, Myrtle and Chestnut streets	102.00 yds. at 45c.	45.90
one crossing, Bridge and Ash streets	42.22 yds. at 65c.	51.26
laying concrete at Baldwin's, error in bill in Nov. . .	33.45 yds.	27.44
		<u>21.75</u>
		\$2,577.02
Total expenditure		<u>\$6,633.75</u>

MACADAMIZING.

Appropriation raised by tax	\$18,000.00
Transferred from reserved fund	350.78
Transferred from reserved fund	2,571.74
Received from Jos. A. Poor (overdraft)	3.00
	<hr/>
	\$20,925.52

EXPENDITURES.

LABOR, DISTRICT NO. 2.

Paid labor of men and teams, as per pay-roll:

January	\$73.85
February	110.84
March	201.49
April	696.29
May	1,581.77
June	1,736.82
July	2,288.17
August	2,501.50
September	2,390.04
October	1,314.02
November	914.28
December	32.62
	<hr/>
	\$13,841.69

LABOR, DISTRICT NO. 10.

June	\$8.00
July	16.63
August	21.00
October	269.78
November	1,030.20
	<hr/>
	\$1,345.61

STONE.

Paid D. W. Atwood, 204,380 lbs. of stone	\$51.09
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Paid J. A. Brown, 3,610 lbs. of stone	\$0.90
Frank Bodwell, 15 loads of stone	22.50
George W. Butterfield, 140,130 lbs. of stone	35.01
E. W. Butterfield, 231,465 lbs. of stone	57.84
D. Butterfield, 247,885 lbs. of stone	63.41
C. E. Buswell, 142,855 lbs. of stone	35.70
George F. Barnard, 131,320 lbs. of stone	32.82
J. L. Fogg, 13 loads of stone .	25.27
J. L. Fogg, 45,210 lbs. of stone .	11.42
F. R. French, 64,450 lbs. of stone	16.11
E. B. Fellows, 221,335 lbs. of stone	55.31
James Fullerton, 311,080 lbs. of stone	77.77
Josiah Carpenter, 126 loads of stone	37.80
Cavanaugh Brothers, 4,350 lbs. of stone	1.08
City farm, 288,800 lbs. of stone .	98.89
H. Holbrook, 498,170 lbs. of stone	124.52
H. L. Kimball, 449,466 lbs. of stone	121.41
M. Lemaux, 4,560 lbs. of stone .	1.14
William McDougall, 55,450 lbs. of stone	13.85
George H. Penniman, 88,855 lbs. of stone	22.21
H. S. Plummer, 184,830 lbs. of stone	46.19
L. J. Proctor, 19,690 lbs. of stone	4.92
J. H. Proctor, 37,005 lbs. of stone	9.25
Palmer & Garmon, 39,880 lbs. of stone	9.97

Paid Palmer & Garmon, 9 hours' work cutting stone coping, horse rail- road transfer station . . .	\$3.60
Palmer & Garmon, 18 loads of chips	11.68
A. Peltier, 87,170 lbs. of stone .	21.79
Charles H. Robie, 318,880 lbs. of stone	79.71
F. Sheer, 134,720 lbs. of stone .	33.67
Jos. Tirrell, 625,330 lbs. of stone	157.95
H. Willey, 142,685 lbs. of stone	35.67
C. C. Webster, 37,370 lbs. of stone	9.33
F. B. Worthley, 362,620 lbs. of stone	90.64
W. Campbell, 105,270 lbs. of stone	26.31
Mead & Mason, 76,685 lbs. of stone	19.17
Kennard Brothers, 46 loads of stone	13.80
Kennard Brothers, 1,040 lbs. of stone	2.51
F. M. Barnard, 62,500 lbs. of stone	15.62
L. W. Bartlett, 180,240 lbs. of stone	45.05
Warren Harvey, 224,670 lbs. of stone	32.12
Warren Harvey, 5 loads of stone	6.25
Head & Dowst, 94 loads of stone	47.00
Joseph A. Poor, 4 loads of stone at 25c.	1.00
C. H. Tirrell, 109,995 lbs. of stone	27.49
Manchester Street Railway Com- pany, 5,470 lbs. of stone . . .	1.36
Marden & Woodbury, 21 loads of stone chips, at 75c.	15.75

EXPLOSIVES.

Paid Killey & Wadleigh :

400 pounds No. 1 forcite	\$180.00
300 plat. fuse	12.00
300 pounds No. 1 forcite	135.00
100 plat. fuse	4.00
150 pounds forcite	67.50
200 feet plat. fuse	8.00
350 feet plat. fuse	14.00
223 pounds forcite	100.35
Paid J. B. Varick Co., 25 feet Aetna fuse	.89
25 6-foot fuses . . . . .	.89

 \$522.63

TOOLS.

Paid Killey & Wadleigh :

2 mattocks	\$2.00
2 handles . . . . .	.42
4 fiber pail covers	1.20
Tools of various kinds	15.98
2 dozen 34-inch Hick sledge handles	4.00

Paid Manchester Hardware Co :

1 fiber pail . . . . .	.50
1 fiber pail cover . . . . .	.25
1 doz. square-point Ames shovels	11.15
1 doz. round-point Ames shovels	11.15
34 pounds steel bars	2.38
1 12-inch wrench . . . . .	.55
1 2-foot rule . . . . .	.15
1 hammer . . . . .	.50
1 screw plate	2.75
1 doz. sledge hammer handles	2.00

Paid J. B. Varick Co. :

Files and file handles . . . . .	.69
Wheelbarrow trays	9.00
1 thermometer . . . . .	.25
1 steel square . . . . .	.70

Paid J. B. Varick Co. :

1 pair of dividers	\$0.85
1 spoke shave . . . . .	.25
1 chisel . . . . .	.37
1 gauge . . . . .	.62
1 5-16 Russell Jennings . . . . .	.25
1 dozen sledge handles	2.00
1 mallet . . . . .	.40
1 paint brush . . . . .	.30
1 oiler . . . . .	.30
2 electric axes	1.40
2 handles . . . . .	.50
½ doz. pick handles	1.00
½ doz. 30-inch sledge hammer handles	1.00
Ax and handle . . . . .	.95
1 water pail . . . . .	.50
1 dozen sledge handles	2.00
1 hammer . . . . .	.60
1 oil can . . . . .	.40
2 pails . . . . .	.60
1 8-inch Baxter wrench . . . . .	.75
1 engine oiler	1.60
1 brass oiler . . . . .	.50
1 cast steel bar, 26 pounds	3.90
1 50-foot tape measure . . . . .	.60
1 saw set . . . . .	.75
½ dozen sledge handles	1.13
2 dozen 6-pound contractor's picks	20.00
2 dozen pick handles	4.00

Paid Chas. H. Hutchinson, one swing

jaw, 15 x 9, complete	70.00
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 \$183.14

LUMBER, CASTINGS, AND REPAIRS.

Paid S. C. Forsaith Machine Co. :

2 cyl. ring castings, 33 pounds, at 3½c	\$1.16
41 hours' labor on same, road-roller	16.40
3 pounds spring steel . . . . .	.75

Paid S. C. Forsaith Machine Co. :

9 pounds of Babbitt, at 32c	\$2.88
1 pound 5-8 Mach. steel . . . .	.07
115 pounds 4-inch Mach. steel at 7c	8.05
4 pounds 1½-inch Mach. steel . . . .	.28
54½ hours' labor for crusher	21.80
1¼ inches coupling . . . .	.03
1¼-inch nipple . . . .	.02
4 hours' labor on crusher engine	1.60
100 feet ½-inch lacing	1.25
28 feet spruce, P. 4 S. . . .	.70
50 chestnut posts, city yard	7.50
196 feet spruce plank and joist, \$18	3.53
400 feet spruce plank and joist, \$17	6.80
50 feet sheathing, \$25	1.25
48 feet spruce joist and plank, at 20c. . . .	.96
150 feet sheathing, at 25 cents	3.75
12 feet spruce joist, P. 4 S. . . .	.30
21½ pounds machinery steel . . . .	.18
1 tripod weight	4.50
2 pounds rubber packing . . . .	.50
1 cylinder buffer, No. 3 drill	1.60
14 hours' labor	5.60
250 feet random spruce, at \$11	2.75
700 feet matched spruce, at \$16	11.20
362 feet spruce timber, at \$17	6.11
8 feet finish, at \$25 . . . .	.20
2,000 spruce shingles, at \$2	4.00
128 feet spruce timber, at \$17	2.18
60 feet sheathing, at \$25	1.50
50 feet random spruce, at \$11 . . . .	.55
75 feet matched spruce, at \$16	1.20
½ M. spruce shingles, at \$2	1.00
11 feet long strap furring . . . .	.05
15 feet finish . . . .	.38
96 feet spruce 3 x 4, sawed, \$17	1.63
¾ hour's sawing . . . .	.30

Paid S. C. Forsaith Machine Co :

302 spruce boards and plank . . .	\$5.14
Cast iron key for crusher . . .	1.75
Express paid on same . . .	.50
4 cap screws . . .	.20
4 feet $\frac{3}{4}$ -inch pipe . . .	.24
42 feet 10-inch double leather belt . . .	54.18
1 pulley, 58 pounds . . .	2.32
1 P. S. shaft, 12 pounds . . .	.72
2 1-inch ped. boxes . . .	2.20
One half pound steel . . .	.04
18 pounds boiler plate . . .	1.08
52 hours, labor . . .	20.80
96 $\frac{3}{4}$ hours, labor on steam boiler . . .	38.70
1 2-inch flue cleaner . . .	1.33
160 pounds machinery steel . . .	11.20
4 pounds machinery steel . . .	.28
Coupling, bushing, etc., etc. . .	5.74
1 $\frac{1}{2}$ pounds Babbitt . . .	.48
4 hours' labor, crusher engine . . .	1.60
1 hour's labor, crusher engine . . .	.40
3 brass castings, crusher engine . . .	1.05
2 $\frac{1}{2}$ hours' labor, crusher engine . . .	1.00
117 feet oak posts, 5 x 5 . . .	2.93
7 hours' labor on wood rolls . . .	2.80
8 $\frac{1}{2}$ hours' labor on ledge whistle and bolts . . .	3.40
10 pounds machinery steel, whistle and bolts . . .	.70
8 nuts, whistle and bolts . . .	.21
395 pounds iron for wheelbarrows . . .	11.85
92 hours' labor . . .	36.80
25 pounds Babbitt on crusher . . .	6.25
10 pounds machine steel, crusher . . .	.70
41 $\frac{3}{4}$ hours' labor on engine . . .	16.70
1 hour's labor on crusher . . .	.40
9 hours' labor on crusher . . .	3.60

Paid S. C. Forsaith Machine Co. :	
2 ½-inch gauge cocks	\$2.50
Refined iron, 30 pounds, at 3 cents . . . . .	.90
3½ hours' labor, at 40 cents	1.40
1 sheave wheel for hoist [September]	3.50
Express . . . . .	.55
1 new top sheave, for Weston hoist [October]	3.50
Express . . . . .	.55
Pulley, 12 x 7, 35 pounds, at 4 cents	1.40
5 hours' labor on crusher	2.00
Paid Farrell Found. Machine Co.'s account :	
1 pair 15 x 9 plates, 660 pounds	23.10
Planing plates	3.00
2 pairs 15 x 9 plates, 1,359 pounds	47.57
Planing same	6.00
Paid Charles H. Hutchinson's account :	
3 glasses, for duffer's oilers	1.00
9 hours' labor drilling shanks on C.	3.60
Labor and materials on steam-roller	12.16
Labor, ½ hour on safety plug . . . . .	.20
Labor and grates on steam-roller	6.27
Labor and materials on steam-roller	8.80
Paid Thomas A. Lane's account :	
50 feet ¾-inch hose, coupled	6.00
Labor of 2 men	5.68
3 globe valves, ¾-inch	2.25
Labor on pump	1.05
Pipe, fittings, rubber packing, etc.	5.35
25 feet 6-ply steam hose, wound	20.75
17½ pounds rubber packing	4.38
300 feet 4-ply hose	60.00
Paid T. A. Lane :	
Fittings, pipe, and labor	3.34
6 10 x ⅝ gauge glasses . . . . .	.90
245 feet 1-inch pipe	14.70
Labor	8.25

Paid T. A. Lane :

19 feet 1-inch pipe	\$1.14
20 feet 1-inch 4-ply extra hose	5.00
Fittings	4.12
1 injector for steam-drill	9.60
Labor	2.20
Glass for oiler, gauge-glass, and 4 gas- kets72

25 feet 1-inch 6 ply steam-hose, wound labor	22.75 .55
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Paid Jere. Hodge, $\frac{1}{2}$ window-sash

Thos. L. Thorpe, 100 lbs. bagging	3.00
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25 lbs. cop-waste	2.50
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L. M. Aldrich, filing 2 saws and repairing level, etc.	2.00
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J. O. Tremblay, sharpening picks, etc.	6.30
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 \$683.03

SUNDRIES.

Paid Joseph Quirin, Aug. 24, 1889, 10

lbs. oatmeal	\$0.50
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Eager & Rand, 10 gallons kerosene oil	1.30
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Paid Killey & Wadleigh :

Oil-can, trays, and chain-wheels	20.85
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1 No. 3 rocker	1.00
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3 rocker-pins	1.25
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Nails, tarred paper, etc.	10.07
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3 lbs. tallow30
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Paid Manchester Hardware Co. :

1 $\frac{1}{2}$ pair 6-inch light hinges15
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nails, screws, and barrel-bolts93
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wire nails	3.66
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Paid J. B. Varick Company's account :

Band-iron, bolts, and washers	7.30
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Screws, bolts, and varnish	1.96
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Screws, files, wire nails, bolts, etc.	\$5.77
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Band-iron, steel, washers, etc.	14.46
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1 Holroye top and die	0.85	
2 files80	
Band-iron, strap hinges, wire nails, etc.	5.49	
6 bolts, 2½ x 5-16 . . . . .	.09	
Turpentine, car-bolts, and washers . .	2.05	
Bolts, sand-paper, etc.	4.25	
Ivory black, chrome yellow, etc., road- roller . . . . .	.88	
2 axe-wedges . . . . .	.10	
Rubber packing, sperm-oil, files, etc.	3.63	
Oil, wood wedges, etc.	9.67	
1 ps. gravel-screen, to order	5.00	
2 lbs. wire staples . . . . .	.10	
5 gallons cylinder oil	3.75	
Nails, bolts, turpentine, etc.	3.76	
Bolts, lacing, etc.	1.98	
Hoop iron, etc.	7.22	
15 feet 14-inch Lea belting	13.80	
Oil, tallow, copper tacks, etc. . . .	3.03	
5 gallons cylinder oil	3.75	
Rubber-packing, tarred marline, etc.	9.27	
5 gallons cylinder oil	3.75	
12¾ feet leather belting . . . . .	.77	
1 pint LePage's glue . . . . .	.35	
Belts, copper tacks, oil, etc.	5.33	
Tallow and oil	7.89	
Oil, elevator, bolts, lacing, etc., . .	37.27	
Paid S. C. Forsaith Machine Co., 2 hours' labor for city engineer's office	.80	
George W. Rief, 1 gallon belt- dressing	2.50	
Boston & Maine Railroad, freight on castings	1.54	
Pike & Heald, 3 water-dippers . . .	.37	
		<u>\$209.54</u>
Total expenditures		\$20,925.52

GRADING FOR CONCRETE.

Appropriation raised by tax	\$4,000.00
Transferred from reserved fund	1,089.86
	<hr/>
	\$5,089.86

EXPENDITURES.

Labor of men and teams, per pay-roll, District No. 2 :

January	\$743.91
February	267.20
March	263.38
April	97.48
May	160.51
June	136.86
July	116.49
August	73.01
September	116.68
October	184.86
November	517.13
December	408.55
	<hr/>
	\$3,086.06

Labor of men and teams, per pay-roll, District No. 10 :

January	\$216.39
February	132.93
March	70.38
April	85.62
May	97.50
June	163.03
July	131.14
August	183.00
September	185.09
October	71.94
November	181.13
December	279.25
	<hr/>
	\$1,797.40

Labor of men and teams, per pay-roll, District No. 7 :

June	\$25.00	
September	21.00	
October	75.00	
	<u> </u>	\$121.00

SAND AND GRAVEL.

Paid E. Hartshorn, 205 loads of gravel	\$20.50	
E. Hartshorn, 104 loads of sand	10.40	
Charles H. Robie, 260 loads of gravel, sanding sidewalks .	26.00	
	<u> </u>	\$56.90

TOOLS.

Paid Killey & Wadleigh, 2 dozen No. 2 steel scoops	\$20.00	
	<u> </u>	\$20.00

SUNDRIES.

Paid J. H. Wiggin, 20 bushels of salt .	\$8.50	
	<u> </u>	\$8.50
Total expenditures		\$5,089.86

SCAVENGER TEAMS.

Appropriation raised by tax	\$12,000.00	
Amount transferred from reserved fund	3,958.46	
	<u> </u>	\$15,958.46

EXPENDITURES.

Labor of men and teams, per pay-roll, District No. 2 :

January	\$1,045.88
February	730.36
March	1,042.01
April	1,241.29

SCAVENGER TEAMS.

465

May	\$844.63	
June	791.00	
July	1,046.75	
August	786.30	
September	1,058.79	
October	1,010.71	
November	925.25	
December	986.38	
	<u> </u>	\$11,509.35

Labor of men and teams, per pay-roll, District No. 10 :

January	\$186.54	
February	146.63	
March	152.88	
April	226.62	
May	173.00	
June	144.24	
July	180.00	
August	148.00	
September	177.50	
October	135.95	
November	141.00	
December	185.75	
	<u> </u>	\$1,998.11

ON CONTRACT AS SCAVENGER.

Paid Timothy Shea, on contract as scavenger, first quarter	\$1,225.00	
Timothy Shea, contract as scavenger, second quarter	1,225.00	
	<u> </u>	\$2,450.00

SUNDRIES.

Paid Killey & Wadleigh, for 2 16-inch steel rakes	\$1.00	
	<u> </u>	\$1.00
Total expenditures		\$15,958.46

STREET SWEEPING.

Appropriation raised by tax	\$1,200.00
Transferred from reserved fund	37.08
	<hr/>
	\$1,237.08

EXPENDITURES.

LABOR, DISTRICT NO. 2.

Paid labor of men and teams as per pay-roll :

February	\$57.39
April	257.00
May	136.23
June	234.30
July	116.24
August	156.81
September	54.13
October	81.98
	<hr/>
	\$1,094.08

LABOR, DISTRICT NO. 10.

Paid labor of men and teams as per pay-roll :

April	\$33.00
August	36.00
November	36.00
	<hr/>
	\$105.00

SUNDRIES.

Paid S. A. Felton & Son, 1 revolving street scraper, refitted	\$32.00
Killey & Wadleigh, 1 dozen street brooms	6.00
	<hr/>
	\$38.00
Total expenditures	<hr/>
	\$1,237.08

LIGHTING STREETS.

Appropriation raised by tax	\$41,000.00
Transferred from reserved fund	99.64
	<hr/>
	\$41,099.64

EXPENDITURES.

MANCHESTER ELECTRIC LIGHT COMPANY, ELECTRIC LIGHTS.

1890.	Charges.	Discounts.
December 25 to January 25, 198, 31 nights at 40c.	\$2,639.34	
December 25 to January 25, 49, 31 nights at 39c.	592.41	\$25.67
January 25 to February 25, 198, 31 nights at 43c.	2,639.34	
January 25 to February 25, 49, 31 nights at 39c.	592.41	
January 25 to February 25, 1, 15 nights at 43c.	6.45	2.15
February 25 to March 21, 199, 24 nights at 43c.	2,053.68	
February 25 to March 21, 49, 24 nights 39c.	458.64	2.97
March 21 to April 21, 199, 31 nights at 43c.	2,652.67	
March 21 to April 21, 49, 31 nights at 39c.	592.41	.62
April 21 to May 21, 199, 30 nights at 43c.	2,567.10	
April 21 to May 21, 49, 30 nights at 39c.	573.30	1.41
May 21 to June 21, 203, 31 nights at 43c.	2,705.99	
May 21 to June 21, 45, 31 nights at 39c.	544.05	

May 21 to June 21, 2, 1 night at 39c.	\$0.78	\$1.20
June 21 to July 21, 203, 30 nights at 43c.	2,618.70	
June 21 to July 21, 45, 30 nights at 39c.	526.50	
June 21 to July 21, 1, 24 nights at 43c.	10.32	
June 21 to July 21, 2, 1 night at 39c. . . . .	.78	26.86
July 21 to August 21, 203, 31 nights at 43c.	2,705.99	
July 21 to August 21, 46, 31 nights at 39c.	556.14	
July 21 to August 21, 1, 14 nights at 43c.	6.02	
July 21 to August 21, 2, 1 night at 39c. . . . .	.78	21.50
August 21 to September 21, 202, 31 nights at 43c.	2,692.66	
August 21 to September 21, 48, 31 nights at 39c.	580.32	
August 21 to September 21, 1, 26 nights at 43c.	11.18	
August 21 to September 21, 3, 1 night at 39c.	1.17	10.75
September 21 to October 21, 205, 30 nights at 43c.	2,644.50	
September 21 to October 21, 47, 30 nights at 39c.	549.90	44.35
October 21 to November 21, 205, 31 nights at 43c.	2,732.65	
October 21 to November 21, 47, 31 nights at 39c.	568.23	
October 21 to November 21, 1, 13 nights at 43c.	5.59	138.23

November 21 to December 21, 207 nights at 43c. . . .	\$2,670.30	
November 21 to December 21, 46, 30 nights at 39c. . . .	538.20	
November 21 to December 21, 1, 10 nights at 39c. . . .	3.90	\$18.52
	<u>\$38,042.40</u>	<u>\$294.23</u>
Total discounts deducted	294.23	

Net expenditures \$37,748.17

GAS.

Paid People's Gas-Light Co., for gas :

December	\$128.66
January	120.54
February	103.46
March	104.02
April	94.36
May	81.06
June	73.78
July	70.28
August	82.46
September	91.70
October	112.00
November	115.50

\$1,177.82

CARE OF GAS-LIGHTS.

Paid People's Gas-Light Co., lighting, extinguishing, care of 141 street lights :

28 nights, December	\$150.70
January	152.85
February	149.83
March	154.30
April	148.93
May	154.03
June	146.97

July	\$143.83	
August	158.16	
September	148.62	
October	165.16	
November	142.61	
	<hr/>	\$1,815.99

SUNDRIES.

Paid People's Gas-Light Co.:		
Oil, whisky, matches, etc.	\$30.36	
3 barrels of oil	15.49	
2 boxes of glass	4.95	
1-gallon kerosene oil can . . . . .	.50	
½-gallon kerosene oil can . . . . .	.25	
2 1-gallon whisky cans	2.00	
Cash paid C. H. Hutchinson, red lanterns	9.57	
Labor on lanterns [Lane]	4.00	
Changing posts, 3 men 1 day	8.50	
Use of team 1 day	3.00	
Setting lantern frames on posts [Lane ½ day]	2.00	
Use of team ½ day	1.50	
1 gallon of whisky	1.40	
3 barrels of kerosene oil	15.95	
Paid C. H. Hutchinson . . . . .	.66	
10 hours' labor on oil lights	2.50	
4 barrels kerosene oil	20.40	
Repairing lanterns [Hutchinson]	2.20	
½ gallon sperm oil . . . . .	.50	
Setting gas post, West Appleton street	3.00	
Labor on oil lights	2.00	
Removing gas post, Hanover street	1.50	
Labor on oil lights	1.00	
Changed lamp post, Granite street	3.45	
8 barrels of oil	38.60	
12 sheets tin for lanterns, xxxx	3.84	

½ box 12 x 14 glass	\$1.38	
12 sheets xxx tin for lanterns	1.56	
2 street-lighting torches	8.00	
Express on same . . . . .	.15	
1 5-gallon kerosene oil can	1.25	
Repairing oil lights, Candia road	3.50	
Repairing oil lights, Amoskeag road	1.50	
Removing lamp post, Hanover and Chestnut streets	1.40	
Setting 3 oil lights, River road	2.90	
Repairing lanterns	3.00	
Repairing oil lights, Candia road	4.00	
Repairing lanterns	1.50	
Removing lamp post, Chestnut street	3.00	
8 barrels kerosene oil	39.13	
Paid Eager & Rand, matches	4.99	
1 gallon whisky	1.40	
Paid Nathan A. Sleeper, setting glass, last six months in 1889 and for the year 1890	3.55	
Clark M. Bailey, for 49½ dozen burners and chimneys	57.50	
Clark M. Bailey, for wicks	2.65	
J. B. Varick Co., 1 oil can, 6 pounds cotton waste	1.60	
Clark M. Bailey, burners, chim- neys, and wicks	33.75	
Thomas A. Lane, labor on lanterns . . . . .	.83	
	<hr/>	\$357.66
Total expenditures		\$41,099.64

BRIDGES.

Appropriation raised by tax	\$4,000.00
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RECEIPTS.

Received from Henry Buldec, for old plank	\$30.00
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Received from Louis Dandoin, for old plank	\$2.50	
from L. B. Bodwell & Co., old plank	20.35	
from W. J. Freeman, old plank	3.75	
from Timothy Shea, old plank	47.00	
from Peter Riley, old plank .	2.50	
from Joseph Nichols, old plank	2.40	
Received from J. N. Chase, for chopping block, etc.	\$8.45	
from Head & Dowst, for old plank	16.43	
from Jos. Tirrell, for old plank	3.00	
from Mark E. Harvey, for old plank	2.50	
from Amoskeag Manuf. Co., $\frac{1}{2}$ expense painting McGregor bridge	295.21	
	<u> </u>	\$434.09
		<u> </u>
		\$4,434.09

EXPENDITURES.

Paid labor of men and teams, per pay-roll, District No. 2 :		
January	\$32.00	
February	90.24	
March	102.12	
April	55.30	
May	23.75	
June	38.25	
July	22.00	
September	14.37	
October	103.50	
December	233.47	
	<u> </u>	\$715.00
Paid labor of men and teams, per pay-roll, District No. 5 :		
May	\$0.88	
June . . . . .	.50	

July	\$4.75	
November	4.62	
	<hr/>	\$10.75
Paid labor of men and teams, per pay-roll, District No. 7 :		
May	\$21.00	
August	20.00	
	<hr/>	\$41.00
Paid labor of men and teams, per pay roll, District No. 10 :		
June	\$2.00	
August	35.00	
	<hr/>	\$37.00

LABOR.

Paid J. M. Crawford, sched. for committee on streets, McGregor bridge, 1889		
	\$5.00	
W. Neal, labor of self and 4 men .	274.91	
W. Neal, 14½ days' labor of team, Amoskeag bridge	21.75	
W. Neal, labor, etc., on Granite bridge	123.25	
W. Neal, labor, etc., on Canal bridge	117.00	
	<hr/>	\$541.91

LUMBER.

Paid A. C. Wallace, 222 feet oak, 3 x 6, \$22½		
	\$4.99	
A. C. Wallace, 6,717 feet oak plank, 3-inch	151.13	
A. J. Sawyer, 53,510 feet 3-inch hemlock plank, \$11.70	626.06	
A. J. Sawyer, 2,412 feet hemlock plank, 3-inch	28.22	
A. J. Sawyer, 10,281 feet hemlock plank, 3-inch, \$11.70	120.28	
Paid S. C. Forsaith Machine Co. :		
36 feet of spruce at \$17 . . . . .	.91	

2,016 feet of spruce at \$18	\$36.29	
26,748 feet of hemlock at \$14	374.48	
99 feet of Georgia pine	3.96	
1 piece strip furring, 16 feet long . . . . .	.10	
246 feet Georgia pine 3 x 12	9.84	
28 feet spruce, 3 x 4, sawed . . . . .	.70	
½ hours sawing . . . . .	.20	
1,089 feet hemlock plank, 3-inch, Dist. 5	15.25	
Paid M. A. Wason, 22 M. long shingles at \$4.50	99.00	
1,904 feet 2 x 3 joists for Amoskeag bridge	22.84	
	<hr/>	\$1,493.95

PAINTING.

Paid National Paint Works, 6 barrels Asphaltum paint	\$204.76	
Boston & Maine R. R., freight on 6 barrels paint	11.57	
Western Union Telegraph Co., telegram to Williamsport, Pa. . . . .	.50	
J. J. Abbott, painting McGregor bridge	429.11	
J. J. Abbott, painting canal bridge, Bridge street, railroad bridge, Parker street	67.40	
	<hr/>	\$713.34

SUNDRIES.

Paid W. Neal, for spikes, etc.	\$1.55
J. B. Varick Co., 10 pounds 6- penny nails . . . . .	.30
J. B. Varick Co., 1 turn buckle . . . . .	.63
J. B. Varick Co., 23 pounds 60-penny cut nails . . . . .	.69

Paid Manchester Hardware Co., 23 kegs 6-penny wire spikes	\$68.50	
Manchester Hardware Co., 66 pounds 6-penny wire spikes	1.88	
Manchester Hardware Co., 1 broom	.45	
Manchester Hardware Co., 1 keg 7-penny wire spikes	3.25	
A. J. Sawyer, trucking lumber at 65c	34.78	
A. J. Sawyer, trucking old plank	24.00	
A. N. Clapp, keg of nails, \$2.75, 6 pounds spikes, \$1.80	4.55	
John W. Wilson, trucking 6 bar- rels paint	1.00	
Alphonzo Boyce, lumber, stone, labor, etc., as per contract, Dist. No. 9	150.00	
Alphonzo Boyce, culvert in district No. 9, per contract	10.00	
T. A. Lane, repairing iron braces, McGregor bridge	3.00	
T. A. Lane, 12 pounds Norway iron, 22 hours labor	10.55	
Killey & Wadleigh, nails, washers, zinc, etc.	11.60	
	<hr/>	\$326.73
Total expenditures		\$3,879.68

TRANSFERS.

Amount transferred to district No. 9	\$72.79	
Amount transferred to reserved fund	480.72	
	<hr/>	\$553.51
Balance90
		<hr/>
		\$4,434.09

CITY TEAMS.

Appropriation raised by tax	\$2,500.00
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RECEIPTS.

Received from team labor	2,700.69
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TRANSFERS.

Amount transferred from incidental expenses	477.61
	<hr/>
	\$5,678.30

EXPENDITURES.

Paid labor of men and teams, per pay roll, District No. 2:

January	\$191.50
February	155.12
March	190.37
April	256.87
May	85.88
June	88.38
July	94.50
August	63.00
September	104.43
October	81.50
November	74.38
December	199.37
	<hr/>
	\$1,585.30

OATS, CORN, FEED, HAY, STRAW.

Paid Pettee & Adams:

315 bags of oats	\$283.59
29 bags of corn	28.43
4 bags of feed	3.60
170 pounds of bran	2.04
4 bags of feed	3.68
2 bags of feed	1.84
8 bags of feed	6.80

200 pounds of bran	\$1.80
14 bags of feed	12.32
75 pounds of bran . . . . .	.70
10 bags of feed	11.95
660 pounds of bran	7.70
1,114 pounds of hay	10.01
2,109 pounds of hay	18.99
759 pounds of hay	6.83
18 pounds of hay	1.62
985 pounds of rye straw	9.85
2,321 pounds of rye straw	22.18
2,125 pounds of rye straw	20.19
Paid Leonard Rowe, 2,065 pounds of hay	17.55
Leonard Rowe, 4,075 pounds of hay at \$17	34.64
D. Butterfield, 2,310 pounds of hay at \$18	20.79
L. Shelters, 324 pounds of hay at \$18	2.85
C. D. Welch, 13,695 pounds of hay at \$18	123.24
C. D. Welch, 2,180 pounds of hay at \$18	19.62
Paid City Farm :	
6,785 pounds of hay at \$17	57.66
5,160 pounds of hay at \$17	39.42
6,145 pounds of hay at \$18	55.30
9,655 pounds of hay at \$17	82.05
3,375 pounds of hay at \$18	30.37
1,096 pounds of hay	9.85
Paid Merrill & Freeman :	
191 bags of oats	176.21
22 bags of corn	24.84
20 bags of feed	20.51
75 pounds of feed . . . . .	.75
2,281 pounds of hay	20.53
3,350 pounds of straw	33.50

Paid Partridge Brothers :

202 bags of oats	\$203.55
25 bags of corn	28.60
470 pounds of feed	5.05
15 bags of feed	16.85
4,587 pounds of hay	42.37
3,131 pounds of straw	36.37
Paid J. A. Brown, 1,870 pounds hay	14.96
H. A. Horton, 1 ton of carrots	16.00

Paid Drake & Parker :

50 bags of oats	47.00
1 bag of corn	1.25
4 bags of feed	4.80
4 bags of ground feed	4.80
150 pounds shorts	1.58
Paid James W. Nutt, 1,745 pounds hay	13.96
Parker R. Brown, 17 bags of oats	12.24
Parker R. Brown, 2,079 pounds rye straw	19.75

 \$1,694.93

BLACKSMITHING.

Paid J. F. Woodbury, shoeing horses	\$219.40
J. O. Tremblay, shoeing horses	84.40

 \$303.80

HARNESS AND REPAIRS.

Paid Frederick Allen :

1 can of oleo	\$0.75
1 harness	65.00
2 straps . . . . .	.75
Repairing harness, oleo, etc.	28.80
1 horse cover	3.75
2 team collars, \$10.00, 3 blankets, \$6.75	16.75
Hame straps, rosettes, repairing har- ness, etc.	29.60

Paid N. J. Whalen, repairing, oiling, blacking harnesses, etc. . . .	\$36.05	
F. N. McLaren, 1 blanket . . .	4.50	
F. N. McLaren, 1 rubber horse covering	6.25	
F. N. McLaren, reins, repairing harness, etc.	15.54	
W. H. Adams, repairs on harnesses	.95	
	<hr/>	\$208.69

REPAIRS ON CARRIAGES.

Paid John T. Beach, repairs on teams .	\$107.32	
Sanborn Carriage Co., repairs on teams	5.35	
J. B. McCrillis & Son, repairs on carriages and materials . . .	235.56	
	<hr/>	\$348.23

HARDWARE.

Paid John B. Varick Co., sandpaper, Norway iron, etc.	\$31.25	
John B. Varick Co., chain, screws, staples, snaps, wire nails, etc. .	13.76	
John B. Varick Co., chain, screws, staples, snaps, wire nails, etc. .	25.98	
Manchester Hardware Co., chain, links, curry comb, brush, bolts, sponges	10.96	
Manchester Hardware Co., castile soap, whip and socket, curry combs, brooms	7.50	
Manchester Hardware Co., 1 sponge . . . . .	.40	
Killey & Wadleigh, 2 stubble brooms . . . . .	.90	
Killey & Wadleigh, butcher knives, broom, axes, etc.	8.15	
	<hr/>	\$98.90

MEDICINES AND MEDICAL SERVICES.

Paid J. Blakely, V. S., Dec. 10, 1889, and March 22, 1890	\$6.00
J. Blakely, V. S., visits and dress- ing foot daily and operating on grey horse, punctured with gath- ered nail	35.00
A. E. Dodge, V. S., 4 visits and medicine	4.25
Jabez Alexander, V. S., medical services	52.00
D. S. Kimball, 2 sets of bandages, 1 boot	1.00
Ellinwood & Co., 1 dozen El-a- tol, (disinfectant)	4.50
Edward H. Currier, medicine	4.50
Z. F. Campbell, medicines	5.74
John Holland & Co., prescrip- tions in Dec., 1889	2.50
Snelling & Woods, medicines	2.40
John Lucy, operation on 6 horses	6.00

 \$123.89

SUNDRIES.

Paid Pettee & Adams, $\frac{1}{2}$ bushel of rock salt	\$0.25
Drake & Parker, 1 bag of salt . . . . .	.75
Drake & Parker, 3 casks of lime	3.30
Manchester Hardware Co., 25 feet 2-inch rubber hose	2.50
Eager & Rand, salt and ginger . . . . .	.50
Eager & Rand, 2 sugar barrels . . . . .	.30
J. Stickney, 4 yards rubber cloth	2.40
Head & Dowst, sapling spruce, etc.	5.79
Head & Dowst, lumber, etc., city yard	18.99

Paid Head & Dowst, lumber, etc., city stables	\$8.75
L. N. Westover, lumber, labor, etc., on teams	25.64
F. L. Proctor, 7 gallons axle oil	3.86
James Kelleher, 5 months' rent of stable	20.00
James Kelleher, 6 months' rent of stable to Nov. 30, 1890	28.50
Wheeler & Rogers, clipping horses	2.00
Pike & Heald, 1 pail . . . . .	.65
Pike & Heald, stoves, pipe, and plumbing at city stables	107.44
Pike & Heald, stoves, pipe, and plumbing at city stables	31.79
L. M. Aldrich, pipe, blacksmithing, etc.,	5.15
D. H. Maxfield, paid express on cutters, road-machine . . . . .	.40
D. H. Maxfield, paid express on whiffletree springs . . . . .	.40
E. J. Williams, materials and labor on crusher building and steam-roller shed	11.51
Thomas A. Lane, piping and labor	2.18
W. H. Vickery, for keys	2.05
E. T. James, horse and wagon from July 30 to September 22	23.75
S. C. Forsaith Machine Co., 150 feet matched boards	2.40
S. C. Forsaith Machine Co., 18 feet finished boards . . . . .	.45
S. C. Forsaith Machine Co., 5 barrels sawdust . . . . .	.50
Clough & Co., 1 pair steel gray horses	550.00

Paid New England Telegraph & Telephone Co., telephone, city stables	\$9.50	
Water-Works, water at new stable	10.75	
	<hr/>	\$882.45
Transferred to reserved fund		432.11
		<hr/>
		\$5,678.30

SEWERS AND DRAINS.

Appropriation raised by tax \$20,000.00

RECEIPTS.

Received from N. H. Rubber Co. (overdraft)	\$8.00	
from A. N. Clapp (overdraft)	11.66	
from N. P. Kidder, sewer licenses	1,013.40	
from C. O. Phelps, sewer pipe	3.90	
from water-works, labor on sewer	20.25	
from Richard Dobbins, freight and labor.	58.05	
from W. H. Plummer for 1800 brick	14.40	
from J. B. Varick Co., explosives returned	15.09	
	<hr/>	\$1,144.75

TRANSFERS.

Transferred from appropriation :		
For reserved fund	\$5,000.00	
For incidental expenses	2,456.04	
For reserved fund	5,205.51	
For reserved fund	3,854.28	
For reserved fund	1,891.79	
	<hr/>	\$18,407.62
		<hr/>
		\$39,552.37

EXPENDITURES.

LABOR, DISTRICT NO. 2.

Paid labor of men and teams, as per pay-roll :

January	\$235.42	
February	85.06	
March	301.85	
April	724.96	
May	1,918.58	
June	2,037.54	
July	3,482.64	
August	2,637.87	
September	2,437.13	
October	1,493.98	
November	1,181.42	
December	296.62	
	<u> </u>	\$16,833.07

LABOR, DISTRICT NO. 10.

Paid labor of men and teams as per pay-roll :

January	\$43.91	
February	19.44	
March	60.63	
April	70.38	
May	1,396.90	
June	1,676.81	
July	2,053.68	
August	1,845.46	
September	1,783.48	
October	842.17	
November	333.38	
December	27.87	
	<u> </u>	\$10,154.11

LABOR, DISTRICT NO. 7.

Paid labor of men and teams as per pay-roll :

July	\$62.62	
	<u> </u>	\$62.62

TOOLS.

Paid Dodge & Straw, 2 pairs men's rubber boots	\$4.80
J. Stickney, 2 pairs pure gum rubber boots	6.00
G. W. Dodge, 6 pairs rubber boots	15.30
H. M. Fletcher, 1 dozen picks	8.50
Pike & Heald, 6 scoops	4.50
Paid Killey & Wadleigh's account :	
½ dozen scoop-handles	2.38
2 cesspool scoops . . . . .	.75
6 stable pails	2.75
1 plumb bob . . . . .	.10
4 round-point shovels	2.60
1 dozen stable pails	2.75
1 gimlet . . . . .	.10
1 level glass . . . . .	.10
1 tape-measure . . . . .	.60
½ dozen globe lanterns	4.63
1 level glass . . . . .	.08
1 Morrill saw-set	1.00
1½ dozen heavy picks	19.50
1½ dozen hickory pick-handles	3.38
½ dozen round-point shovels	3.50
⅓ dozen square-point shovels	3.34
2 L. H. round-point shovels	1.08
24½ lbs. drills	4.41
6¼ lbs. shims and wedges	1.25
1 striking-hammer, 3½ pounds	1.05
1 handle . . . . .	.10
43 lbs. 1-inch rope	7.10
2 Piper pail covers . . . . .	.60
1 No. 2 brass oiler . . . . .	.20
15½ lbs. striking hammers	2.48
6 handles . . . . .	.90
Tools	28.67

Paid Manchester Hardware Company's account :

1 scoop	\$0.75
6 8-lb. picks, at \$1.15	6.90
6 pick-handles	1.20
2 street hoes	1.20
1 padlock . . . . .	.65
3 dozen round-point shovels	33.45
6 2-foot rules . . . . .	.60
4 canal-barrows	10.00
2 50-foot tape-measures	4.68
9 tubular lanterns	3.75
1 red lantern globe . . . . .	.50
2 lantern reflectors . . . . .	.40
1 No. 4 hand ax	1.00
12 round-point shovels	11.15
1 5-foot tape-line . . . . .	.40
6 red globes	2.00
2 hardware pails	1.24
6 8-foot scoop-handles	2.52
1 padlock . . . . .	.40
2 7½-lb. striking-hammers (district No. 10)	3.00
1 dozen red globes	4.00
1 hoe handle . . . . .	.15
2 paint brushes	2.20
3 stable pails . . . . .	.75
1 fiber pail . . . . .	.50
1 5-foot tape-line	2.50
Tools	17.47

Paid John B. Varick Company's account :

1 dozen pick-handles	2.00
1 dozen round-point shovels	8.00
1 fiber pail . . . . .	.50
2 dippers . . . . .	.20
6 swivel harness-snaps . . . . .	.63
6 square-point shovels	5.50
6 round-point shovels	5.50

2 handles	\$0.20
12 6-lb contractor's picks	10.00
12 pick handles	2.00
1 level	2.00
1 Maydoe harrow	2.50
3 red lantern globes	2.25
3 lantern burners	2.55
2 tape-measures . . . . .	.60
2 pulp waterpails	1.00
2 tin dippers . . . . .	.10
1 trowel . . . . .	.60
4 lantern globes . . . . .	.40
4 contractor's picks	3.50
6 pick handles	1.00
12 square-point shovels	11.00
1 trowel . . . . .	.60
15 lbs. No. 1 Manilla rope	2.25
3 L. H. round-point shovels	2.75
1 gimlet . . . . .	.10
1 gimlet . . . . .	.05
1 level glass . . . . .	.10
6 $\frac{3}{4}$ pounds $\frac{3}{8}$ -inch Manilla rope	1.08
6 sledge hammer handles	1.13
1 part to level . . . . .	.10
3 red lantern globes	1.80
12 pick handles	2.00
1 50-foot tape measure . . . . .	.75
3 sledge handles . . . . .	.50
36 pounds $\frac{3}{4}$ -inch manilla rope	5.76
2 ax handles . . . . .	.40
2 paint brushes	1.50
Hardware	23.55
Paid J. Stickney :	
2 pair rubber boots	5.85
1 oil suit	2.25
1 pair of overalls	1.25
2 oil coats	2.50

1 pair No. 10 rubber boots	\$3.00
1 pair oil overalls [district 10]	1.25
Paid New Hampshire Rubber Co., 1 pair hip boots	4.00
George L. Robinson, 1 pair rubber boots	3.25
George L. Robinson, 1 pair hip boots	3.50
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	\$381.16

EXPLOSIVES.

Paid J. B. Varick Co. :	
50 feet water-proof fuse37
26 feet cotton fuse13
18½ pounds Ætna cartridges	5.92
50 pounds 4-foot fuse	1.50
25 pounds 6-foot fuse . . . . .	.89
Forcite, fuse, etc.	24.95
Paid Killey & Wadleigh :	
33 feet platinum fuse	1.32
50 feet platinum fuse	2.00
100 pounds No. 1 forcite	45.00
50 pounds No. 2 forcite	20.00
250 feet platinum fuse	10.00
4 pounds blasting powder . . . . .	.60
50 pounds No. 3 forcite	12.50
50 feet platinum fuse	2.00
100 feet platinum fuse	4.00
42½ pounds No. 3 C. forcite	10.63
50 feet platinum fuse	2.00
Forcite, fuse, etc.	266.26
5 pounds forcite No. 1	2.25
Paid Manchester Hardware Co. :	
20 pounds of powder	5.00
50 feet platinum fuse	2.00
No. 3 forcite	10.50
32 feet platinum fuse	1.28
	<hr/>
	\$431.10

SEWER-PIPE.

Paid Thomas A. Lane, for Akron pipe,		
per contract	\$3,014.24	
Richard Dobbins, for iron pipe,		
per contract	1,962.00	
	<hr/>	\$4,976.24

MATERIALS, LABOR, SEWER-PIPE, AND IRON PIPE.

Paid Thomas A. Lane :		
1 diaphragm for Edson pump	\$2.75	
Labor fitting Edson pump . . . . .	.60	
Repairing suction hose	1.10	
Labor on Edson pump	1.10	
3 pipes for Edson pump	1.50	
Repairing suction hose	1.10	
2 8-inch Akron curves	1.35	
1 Edson diaphragm	2.75	
Labor on pumps	1.10	
12 feet suction hose	21.00	
3 barrels of coal, at 45 cents	1.35	
15 pounds of hemp, at 18 cents	2.70	
Fire clay . . . . .	.65	
150 pounds caulking lead, at $4\frac{1}{8}$ cents	6.19	
16 bags . . . . .	.80	
Blacksmithing . . . . .	.75	
Labor on sewer, Massabesic street, 2 men 6.8 days, at \$5 per day	34.00	
Edson diaphragm	2.25	
Labor on pump . . . . .	.60	
Acron pipe and curves, district 10	11.32	
Copper wire . . . . .	.20	
Labor on suction hose	1.10	
1 8-inch Akron ell . . . . .	.72	
1 12 x 10 Akron pipe	1.54	
1 diaphragm for Edson pump	2.25	
Labor . . . . .	.75	
1 diaphragm	2.25	

Labor	\$0.90
Labor on broken water-pipes on sew- ers . . . . .	.70
1 $\frac{3}{4}$ -inch branch union . . . . .	.10
Labor	1.80
5 $\frac{3}{4}$ feet 1-inch pipe . . . . .	.61
1 1-inch elbow, R. & L. . . . .	.12
1 1-inch E. coupling . . . . .	.12
Labor	1.65
6 6-inch Akron curves	\$6.60
3 8-inch Akron curves	5.40
8 8-inch Akron curves	14.40
72 feet 6-inch pipe	21.60
	<hr/>
	\$48.00
Less 60 per cent discount	28.80
	<hr/>
	19.20
Pipe, materials and labor	66.37
Paid J. B. Varick Co., hardware	7.13
Pike & Heald, repairing lanterns, etc. . . . .	.45
J. B. McCrillis & Son, repairs and blacksmith work	8.35
H. C. Ranno & Son, braiding rope, etc.	3.97
Paid C. H. Hutchinson :	
1 cover, 103 pounds at 3c.	3.09
2 $\frac{1}{2}$ pounds brass pins at 30c. . . . .	.75
1 grate and trap, 171 pounds at 3c.	5.13
2 traps, 2 grates, 1 solid cover, 524 pounds at 3c.	15.72
2 $\frac{1}{2}$ pounds brass pins . . . . .	.75
6 grates, 595 pounds at 3c.	17.85
1 trap, 70 pounds at 3c.	2.10
1 $\frac{1}{2}$ pounds of iron at 3c. . . . .	.05
6 traps, 450 pounds at 3c.	13.50
4 $\frac{1}{2}$ pounds brass pins at 30c.	1.35

6 traps, 2 grates, manhole and cover, 1,147 pounds at 3c.	\$34.41
Manhole and cover, 435 pounds at 3c.	14.55
2½ pounds of brass pins at 30c. . . . .	.75
45½ hours' labor drilling traps, grates	18.10
Iron . . . . .	.28
Castings, 1,594 pounds at 3¼c.	51.78
Castings, 6 ps., 108 pounds at 3¼c.	3.51
Iron, 6½ pounds at 3c. . . . .	.20
2 square grates, 147 pounds	\$4.78
Less 7 pounds old iron . . . . .	.42
— — — — —	4.36
Boiler plate . . . . .	.63
3 traps, 224 pounds at 3c.	6.72
3 traps, 226 pounds at 3c.	6.78
3 grates, 289 pounds at 3c.	8.67
8 hours drilling at 40c.	3.20
1½ hours drilling castings at 40c. . . . .	.60
3 hours drilling and filing at 40c.	1.20
10½ hours on staples, for grates, etc.	4.20
11 hours' labor on grate pattern	4.40
3 brass pins for traps . . . . .	.90
3 brass pins, 12½ pounds brass . . . . .	.45
2½ hours repairing manhole pattern	1.00
10½ hours drilling, riveting traps, etc.	3.60
Manhole and cover, 1,061 pounds at 3c. (d. 10)	31.83
Manhole and cover, 520 pounds at 3c.	15.60
Manhole and trap, 585 pounds at 3c.	17.55
8 traps and 13 grates, 1,884 pounds at 3c.	56.52
Manhole castings, 405 pounds at 3c.	12.15
Manhole castings, 402 pounds at 3c.	12.06
2 manholes and 2 covers, 1,052 at 3c.	31.56
1 grate casting, 93 pounds at 3c.	2.79
2 cover castings, 195 pounds at 3c.	5.85
9½ pounds of iron . . . . .	.29

4 manholes and 3 covers, 2,054 pounds at 3c.	\$61.62	
8 grate castings, 770 pounds at 3c.	23.10	
1 manhole, 430 pounds at 3c.	12.90	
1 manhole and cover, 540 pounds at 3c.	16.20	
6½ hours drilling traps	2.60	
4 hours blacksmithing on trap hooks	1.60	
Manholes, grates and other castings, 11,689 pounds at 3c.	350.67	
Brass pins, 8½ pounds at 30c.	2.55	
9½ pounds of iron . . . . .	.31	
49 hours' labor drilling traps, etc.	19.60	
Paid Manchester Locomotive Works, 3 grates, 315 pounds at 3c.	9.45	
Warren Harvey, 2 loads of stone	8.00	
Warren Harvey, 1 load of covering-stone	6.00	
Warren Harvey, 6 men ¾ day each	9.00	
Warren Harvey, ½ day, team	2.00	
Concord & Montreal Railroad, material and labor furnished, grading around new sewer	235.26	
	<hr/>	\$1,392.88

BLACKSMITHING.

Paid John Welcome, sharpening drills	\$5.17	
James Morrison, sharpening drills and picks	8.49	
D. F. Cressey, district No. 10, sharpening tools, etc.	272.66	
Leander Pope, sharpening tools, etc.	14.65	
J. O. Tremblay, sharpening tools, etc.	8.30	
Willey & Rowe, sharpening tools, etc.	11.50	
	<hr/>	\$321.77

CEMENT, BRICK, STONE, AND LUMBER.

Paid Mrs. F. E. McKean	\$9.40
Paid Merrill & Freeman's account :	
680 163-300 barrels Norton cement	980.55
23 barrels Portland cement . . .	69.00
1 barrel Portland cement	3.00
80 barrels Norton cement	116.00
1 barrel lime	1.05
2 barrels Norton cement	2.90
Paid Pettee & Adams, 35 barrels cement	53.90
W. F. Head & Sons, 231 M. brick	1,501.50
W. F. Head & Sons, 28 M. brick, at \$6.50	182.00
W. F. Head & Sons, 42 M. brick	273.00
F. S. Bodwell, 30 cesspool-stones at \$2.75	82.50
F. S. Bodwell, curbstone, corner Hanover and Chestnut streets	5.50
F. S. Bodwell, labor	14.43
Paid S. C. Forsaith Machine Company's account :	
5,486 feet spruce lumber	143.26
28,196 feet spruce lumber, \$17 . . .	479.20
56 chestnut posts	8.40
6,070 feet spruce, \$17	103.19
1,508 feet hemlock boards	22.12
935 feet spruce	15.89
Sundry other small lots	24.80
Paid Jere. Hodge, sapling, screws, and labor	12.80
A. C. Wallace, 200 feet clear pine, at \$30	6.00
A. C. Wallace, 3,980 feet spruce, at \$18	67.66
	<hr/>
	\$4,178.05

FREIGHT.

Paid Concord Railroad, freight on brick and sewer-pipe	\$278.80	
Boston & Maine, freight on sewer- pipe	24.55	
	<hr/>	\$303.35

SUNDRIES.

Paid Walter Neal, labor of self and men	\$12.00
T. L. Thorpe, 401 lbs. sacking	12.06
H. Hartshorn, 19 loads mortar sand	4.75
J. B. Varick Co., bolts, washers, band-iron, rope, battery-wire, sperm oil, etc.	16.31
Killey & Wadleigh, nails and other hardware	11.93
Manchester Hardware Co., cop- peras, steel wire, nails, hinges, etc.	12.82
Hallsville Grocery Store, kerosene oil	2.72
A. N. Clapp, hardware, oil, nails, etc.	61.76
John B. Clarke, advertising pro- posals for sewer-pipe	10.75
S. C. Forsaith Machine Co., rub- ber packing for steam-drill	3.00
S. C. Forsaith Machine Co., ex- press on above . . . . .	.35
S. M. Worthley, oil, etc.	9.04
J. Stickney, 10 yds. 56-inch white duck	2.50
J. Stickney, repairing leather hose	4.00
J. Stickney, 1 oil suit, delivered to Mr. Phelps	2.25
Eager & Rand, kerosene oil	8.43

Eager & Rand, oatmeal, salt, soda, alum, ginger, etc.	\$10.97	
Pettee & Adams, 125 sacks	8.50	
Joseph Quirin, 123 lbs. oatmeal . .	6.15	
Joseph Quirin, 2 dozen lamp-wicks	.20	
D. B. Varney, 3 railroad fares to Lowell and return, to see about iron sewer-pipe	4.86	
Whitten & Fifield, teams and hacks	22.50	
Merrill & Freeman, 113 sacks . . .	4.52	
A. Gorman, 13½ gallons oil	1.89	
A. & D. M. Poore, 400 lbs. Cum- berland coal	1.20	
L. M. Aldrich, materials and labor on tools	6.58	
T. F. Fifield, 20 gallons kerosene oil	2.80	
Manchester Street Railway, 1 pack- age horse-car tickets	4.50	
George Ames, horse-car fare, carry- ing battery to and from Granite- street sewer	9.50	
J. J. Abbott, 2 lights, 24 x 28, and setting, broken by blasting	2.50	
Head & Dowst, 7 feet 7/8-inch sheathing . . . . .	.18	
George C. Lord, 15 gallons of oil	2.10	
	<u> </u>	\$263.62
Total expenditures		\$39,297.97
Balance		<u>254.40</u>
		\$39,552.37

ENGINEERING DEPARTMENT.

Appropriation raised by tax	\$3,000.00
Transferred from the reserved fund	221.89
	<u> </u>
	\$3,221.89

EXPENDITURES.

LABOR.

Paid W. H. Bennett, city engineer . . .	\$900.00	
W. H. Bennett, city engineer . . .	270.00	
Harry T. Briggs, 6 days at \$1.75 . . .	10.50	
J. M. Kendall, 3½ days at \$3 . . .	10.50	
John J. McDonough, 240 days at \$1.25	300.00	
John J. McDonough, 36½ days at \$1.25	45.63	
George W. Wales, 277 days at \$1.75	484.75	
Harrie M. Young, 313¾ days at \$2	627.50	
	<hr/>	\$2,648.88

SUPPLIES AND OFFICE EXPENSES.

Paid W. H. Bennett:

Cash paid for binding and sewing maps	\$6.00
Horse-car fares, express charges, and atomizing-tube for office . . .	1.60
Postage stamps and cards	2.00
Expenses in reference to sewer com- mittee	2.60
Horse-car fares in April, May, and June	3.70
Horse-car fares from July to Dec. 27, 1890	6.35
1 pencil sharpener for office . . .	1.75
Paid H. M. Young:	
Copy of court record . . . . .	.25
Express on paper, etc. . . . .	.33
Boat hire . . . . .	.25
Repairs of tapes	3.50
Paid James W. Queen & Co., drawing paper	
	25.95

Paid James W. Queen & Co., pencils and India ink	\$6.75
Frank H. Challis, 2,000 envelopes	6.00
Frank H. Challis, 2,000 letter heads	6.75
Pike & Heald, 1 glass dish . . . . .	.15
Frost & Adams, drawing paper	6.45
Frost & Adams, drawing paper	8.85
J. Stickney, 5 yards 50-inch black duck	1.75
Albert Hilcken, 3 portfolios at \$6.50	19.50
Joel Daniels & Co., 2 rolls blue process paper	6.00
Paid E. R. Coburn & Co. :	
Haskell's Engineer's Handbook	3.00
5 quires drawing paper	19.70
1 quart ink, 1 binder, 2 record books	3.05
Pencils, ink, etc.	5.78
Paid George Blanchett, 135 $\frac{3}{4}$ yards bleached cotton	15.88
Paid Temple & Farrington Co. :	
1 blank book	6.25
12 blank books	6.60
2 blank books	2.00
Ink, mucilage, paper, etc.	9.13
Paid Walter Blenus, repairing tapes for city engineer	
Weston & Hill, 5 yards flannel	1.25
J. B. Varick Co., draftsman's scale, cutting pliers, sponge, tacks, and other hardware	7.18
Head & Dowst, repairing transit box . . . . .	.45
Head & Dowst, 3 hours' labor, $\frac{1}{2}$ dozen 3-inch R. H. screws . . . . .	.80

 \$200.35

TEAM AND TEAM EXPENSES.

Paid H. M. Young, horse and carriage, 1 day	\$2.50	
J. B. McCrillis & Son, 4 bolts, 1 check-loop, and screw-up . . . . .	.40	
J. B. McCrillis & Son, repairing wagon	1.00	
John F. Woodbury, shoeing horse	9.50	
John T. Beach, repairing team	15.90	
George W. Reed, use of horse and wagon, Nov. and Dec., 1889	7.50	
Thomas P. Riley, repairing and oiling harnesses, Dec., 1889	5.60	
Whitten & Fifield, use of team de- livered to city engineer	232.00	
A. H. Stark, painting wagon	13.00	
Frederick Allen, repairing saddle and bridle . . . . .	.35	
	<hr/>	\$287.75

SUNDRIES.

Paid Charles H. Wood, painting street numbers and signs	\$11.55
John B. Clarke, printing 125 re- ports	25.75
Manchester Hardware Co., 1 scratch-awl, 3 ax handles, 1 2- foot rule	1.20
S. C. Forsaith Machine Co., sharpening transit rods . . . . .	.50
S. C. Forsaith Machine Co., 15 Pieces spruce, 2 x 3, sawed and pointed . . . . .	.85
John F. Gillis, 2 pair long-legged rubber boots	8.00
Flint & Little, butts, bolt, 3½ hours' labor in office	1.13

Paid Head & Dowst, lumber and labor	\$12.43	
Jere. Hodge, 2,000 pine grade stakes	18.00	
Jere. Hodge, stair rail, etc.	1.24	
Thomas A. Lane, pipe, swing joints, heavy brackets, etc., in city engineer's office	3.26	
Thomas A. Lane, 2 rail brackets . . . . .	.50	
Thomas A. Lane, 2 rail brackets . . . . .	.50	
	<hr/>	\$84.91
Total expenditures		<hr/> \$3,221.89

HEALTH DEPARTMENT.

Appropriation raised by tax \$1,400.00

RECEIPTS.

Received from Manchester Shoe Co., for cleaning vaults	\$21.25	
Received from James Bros. (overdraft)	2.00	
	<hr/>	\$23.25

TRANSFERS.

Transferred from reserved fund	\$2.46	
Transferred from reserved fund	131.67	
	<hr/>	\$134.13
		<hr/> \$1,557.38

EXPENDITURES.

LABOR OF HEALTH OFFICER AND OTHERS.

Paid William M. Parsons, health officer, one year's service, to Feb. 1, 1890	\$200.00
G. C. Hoitt, services 1 year, to Feb. 1, 1890	200.00

Paid J. B. Sawyer, services 1 year, to Feb. 1, 1890	\$200.00	
Daniel Harriman, 1 day's service	2.00	
E. V. Turcotte, services	1.00	
P. Dobbins, services 22 days as special police, Goffe's Falls	38.50	
Charles H. Reed, 24 days' service	54.00	
Russell White, 311 days' service	622.00	
	<hr/>	\$1,317.50

PRINTING AND STATIONERY.

Paid Temple & Farrington Co., station- ery	\$1.87	
H. E. Daniels, typewriting . . . . .	.90	
Campbell & Williams, printing placards	2.00	
A. S. Campbell & Co., printing notices, etc.	18.25	
John B. Clarke, printing licenses	4.50	
John B. Clarke, printing 150 re- ports	14.00	
	<hr/>	\$41.52

TEAMS.

Paid E. T. James, horse and buggy for use of C. H. Reed, putting up notices at pond	\$5.00	
James Bros., use of team	11.50	
Fred T. Partelow, 5 hours' use of boat	7.50	
Whitten & Fifield, horses and double sleigh	3.00	
Russell White, for horse railroad fares	51.70	
	<hr/>	\$78.70

SUNDRIES.

Paid J. B. Sawyer, postage, envelopes, stationery	\$11.25
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Paid J. B. Sawyer, express charges and lantern	\$0.55	
J. B. Sawyer, traveling expenses	2.49	
J. B. Sawyer, express charges, etc.	4.97	
L. M. Aldrich, 1 box . . . . .	.50	
Edmund R. Angell, analysis of water, in 1889	12.75	
Edmund R. Angell, analysis of water	15.90	
Timothy Shea, cleaning vault at shoe-shop, 1888, by order of the board of health	42.50	
F. X. Chenette, for removing dead horse	4.00	
H. W. Sawyer, distributing and posting bills	2.75	
Thomas Francoeur, services in burying dead animals	6.00	
George Fletcher, expenses attending examination of Massabesic lake	16.00	
	<hr/>	\$119.66
Total expenditures		<hr/> \$1,557.38

REPAIRS OF SCHOOLHOUSES.

Appropriation raised by tax	\$3,700.00
Balance unexpended on last year	264.27

RECEIPTS.

Received from P. Harrington, old fence at Webster-street schoolhouse	\$30.00
Received from G. H. Dudley, for old furniture sold	40.00
	<hr/>
	\$70.00

TRANSFERS.

Amount transferred from furniture and supplies	\$136.98	
transferred from books and sta- tionery	161.41	
transferred from evening schools	21.43	
transferred from tuition	202.27	
	<hr/>	\$522.09 .
		<hr/>
		\$4,556.36

EXPENDITURES.

MASON WORK.

Paid R. Landers, materials and mason work on school building	\$111.76	
B. W. Robinson, materials and mason labor on Youngsville schoolhouse	90.59	
B. W. Robinson, 5 $\frac{3}{4}$ days' mason labor at Main-street school- house	22.62	
B. W. Robinson, whitewashing and kalsomining and other la- bor on seventeen schoolhouses	213.37	
John J. Bennett, labor, mortar, and brick, at Franklin-street school- house	1.75	
	<hr/>	\$440.09

PAINTING.

Paid J. J. Abbott, painting in 10 school- houses, setting glass	\$122.03	
John A. Sargent, painting, glazing, etc.	231.71	
	<hr/>	\$353.74

CLEANING VAULTS.

Paid S. H. Webster, for cleaning vaults, district No. 6	\$3.00	
T. McKenna, for cleaning vaults, city	18.00	
C. C. Webster, for cleaning vaults, Harvey District and Goffe's Falls	5.50	
J. H. Proctor, for cleaning vaults and shed	6.00	
	<hr/>	\$32.50

WOOD WORK.

Paid Head & Dowst, 75 feet pine, 5 hours' labor at Ash-street school- house	\$4.25	
Smead ventilating system, Web- ster-street schoolhouse	855.80	
G. H. Dudley, labor, hardware, lumber, and other materials	1,286.45	
Smead Heating & Ventilating Co., to amount of contract for intro- duction of dry-closets into the Webster-street schoolhouse	500.00	
J. A. Swasey, putting blackboard surface on new wooden boards in high-school building	37.00	
Paid Amoskeag Manf. Co.:		
1 window sill, Webster-street school- house	1.00	
51 feet 1-inch sapling pine, Ash street- schoolhouse . . . . .	.92	
99 feet 1½-inch sapling pine, Ash- street schoolhouse	1 78	
30 feet 2-inch sapling pine, Ash-street schoolhouse . . . . .	.54	
802 feet spruce sheathing	20.05	

Paid George Holbrook, labor, lumber, hinges, zinc, etc., on cover to scuttle, Franklin-street . . .	\$2.00	
	<hr/>	\$2,709.79

PLUMBING AND IRON WORK.

Paid Pike & Heald, for work on furnaces	\$30.00	
D. J. Adams, fitting keys, repairing sharpener, etc. . . . .	.80	
S. C. Austin & Bro., labor and materials for lightning-rods on Ash-street, Webster-street, and Lincoln-street schoolhouses . .	48.00	
Paid T. A. Lane, plumbing, piping, etc. :		
In Main-street schoolhouse . . .	153.43	
In Lincoln-street schoolhouse . . .	82.70	
In Franklin-street schoolhouse . . .	63.52	
In other schoolhouses	105.63	
	<hr/>	\$484.08

SUNDRIES.

Paid Amoskeag Manuf. Co., forging and labor on flag poles	\$16.55	
Amoskeag Manuf. Co., desk-stand, stoves, etc.	46.17	
Pike & Heald, stoves, brooms, etc.	21.18	
George H. Holbrook, labor on windows at Webster-street school- house	1.50	
Higging Bros. Co., reseating chairs (5)	3.75	
Temple & Farrington Co., rings, shades, etc., Youngsville school- house	7.14	
J. S. Avery, setting glass, etc. . .	2.55	
Emma J. Ela, setting glass, etc., 2 squares . . . . .	.72	
	<hr/>	\$99.56
Total expenditures		<hr/> \$4,119.76

TRANSFERS.

Amount transferred to fuel	\$370.65	
transferred to printing and advertising	49.00	
transferred to contingent ex- penses	16.93	
	<u> </u>	\$436.58
		<u> </u>
Balance		\$4,556.34
		.02
		<u> </u>
		\$4,556.36

FUEL.

Appropriation raised by tax	\$3,200.00
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TRANSFERS.

Transferred from furniture and supplies	\$256.15	
from repairs of schoolhouses	370.65	
from reserved fund	7.45	
	<u> </u>	\$634.25
		<u> </u>
		\$3,834.25

EXPENDITURES.

COAL.

Paid E. P. Johnson Co., 12,000 pounds of coal at \$7 per ton	\$42.00	
L. B. Bodwell & Co., 145,115 pounds coal at \$6.50 per ton	471.62	
L. B. Bodwell & Co., 865,225 pounds coal at \$6.25 per ton	2,703.83	
L. B. Bodwell & Co., 1 ton of egg coal, Clinton street	6.25	
Amount overdrawn on last year	130.93	
	<u> </u>	\$3,354.63

CHARCOAL.

Paid L. B. Bodwell & Co., 4 barrels of charcoal	\$2.10	
L. B. Bodwell & Co., 2 barrels of charcoal	1.00	
	<u> </u>	\$3.10

WOOD.

Paid L. B. Bodwell & Co., 1 cord of hard wood	\$7.00	
Cleaves N. Harvey, wood and sawing (48 cords hard, 18 pine)	460.02	
E. C. Haskell, 1 load of wood	2.00	
Augustus Brown, sawing wood, Franklin-street and Amoskeag schoolhouses	7.50	
	<u> </u>	\$476.52
		<u> </u>
		\$3,834.25

FURNITURE AND SUPPLIES.

Appropriation raised by tax	\$1,000.00
Balance (overdraft) . . . . .	.11
	<u> </u>
	\$1,000.11

EXPENDITURES.

CHEMICAL APPARATUS AND SUPPLIES.

Paid Educational Supply Co., 1 large Kipps' apparatus	\$6.00
Tebbetts & Soule, test tubes, chemicals, apparatus, supplies	18.21
E. S. Ritchie & Son, apparatus and supplies	96.13

Paid Albert Somes, railroad fares to Boston for self and G. I. Hop- kins	\$5.20	
freight and cartage on apparatus .	.75	
	<u> </u>	\$126.29

HARDWARE.

Paid Killey & Wadleigh, $\frac{1}{2}$ dozen feather dusters	\$3.25	
Killey & Wadleigh, feather dusters, sponges, brooms, etc.	17.85	
Manchester hardware Co., snow shovel, feather dusters, waste baskets, shipping tags, floor brushes, step-ladder, hemp twine, and other kinds hardware	92.51	
Pike & Heald, dust pans, ash hods, wire mats, brooms, etc.	215.19	
J. B. Varick Co., 3 No. 14 floor brushes, 1 shovel	6.30	
	<u> </u>	\$335.10

BOOKS AND STATIONERY.

Paid Temple & Farrington Co., sta- tionery	18.33	
W. P. Goodman, rubber band and note cap . . . . .	.98	
Novelty Advertising Co., block card boards	3.90	
John B. Clarke, 1 ream of paper .	3.00	
	<u> </u>	\$26.21

FURNITURE.

Paid Charles A. Hoitt & Co., 6 wood chairs	\$5.15	
Higgins Brothers Co., 1 cherry chair	2.25	

Paid Higgins Brothers Co., use of 35 folding chairs, Opera House, for graduating class	\$1.50	
Winchester Furniture Co., 52 sq. ft. of slate	11.96	
S. E. Butterfield, goods	3.00	
R. D. Gay, window shades	6.00	
H. C. Dickey, work on portable seat	2.30	
J. L. Hammett, 2 dozen 3-foot blackboard pointers	1.80	
Ginn & Co., 2 new 2d music charts	15.25	
Everett O. Fisk & Co., map of Europe, map of Russian Empire	8.00	
"The Kitchen," 2 bracket lamps at Bakersville schoolhouse . . . . .	.59	
	<hr/>	\$57.80

SUNDRIES.

Paid Harley & Robbie, ribbon, high-school diplomas	\$10.10	
W. H. Elliott, for 4 pitch-pipes	1.00	
John Kane	1.15	
W. H. Vickery, for 4 keys and repairs on locks and keys	1.50	
A. A. Jenkins, for tuning pianos at 6 schoolhouses	9.50	
R. E. McKean, chamois bag for telescope at the High School	3.50	
H. L. Hall, repairing clock at Ash-street school	1.00	
Henry W. Allen, repairing drawing instruments, High School	2.00	
	<hr/>	\$29.75
Total expenditures		<hr/> \$575.15

TRANSFERS.

Amount transferred to fuel	\$256.15	
Amount transferred to repairs of school-houses	<u>136.98</u>	\$393.13
Balance overdrawn January 1, 1890 (expended in 1889)		<u>31.83</u>
		<u>\$1,000.11</u>

BOOKS AND STATIONERY.

Appropriation raised by tax	\$400.00
Balance from last year, unexpended	<u>101.19</u>
	\$501.19

EXPENDITURES.

SUNDRIES.

Paid W. E. Buck, cash paid for 1 set People's Cyclopedia for the Hallsville school	\$20.00
W. E. Buck, cash paid for postage	10.00
Ginn & Co., music books	2.50
W. P. Goodman, record book and stationery	4.14
Manchester post-office, postage and envelopes for the use of schoolboard	17.20
Temple & Farrington Co., stationery	16.01
Temple & Farrington, Co., stationery, envelopes	8.00
Balch Brothers, 1 set Redpath's History, high-school library	20.00

Paid Novelty Advertising Co., 6 sheets cardboard and cutting	\$0.40	
Houghton & Mifflin, Riverside literature	5.20	
• Prang Educational Co., color boxes, Whatman paper, 100 pads	37.90	
	<hr/>	
Total expenditures		\$141.35

TRANSFERS.

Amount transferred to printing and advertising	\$22.03	
transferred to contingent ex- penses	176.40	
transferred to repairs of school- houses	161.41	
	<hr/>	
		\$359.84
		<hr/>
		\$501.19

PRINTING AND ADVERTISING.

Appropriation raised by tax		\$400.00
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TRANSFERS.

Amount transferred from books and sta- tionery	\$22.03	
transferred from repairs of buildings	49.00	
transferred from tuition	21.25	
	<hr/>	
		\$92.28
Balance		10.00
		<hr/>
		\$502.28

EXPENDITURES.

Balance overdrawn (expended in 1889)		\$113.23
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SUNDRIES.

Paid A. S. Campbell & Co., 200 postals and printing same	\$2.75	
Daily Press Publishing Co., adver- tizing teachers' examinations, 2½ inches 4 days	5.00	
Daily Press Publishing Co., adver- tising examination of teachers and pupils	12.25	
Union Publishing Co., advertis- ing teachers' examinations, 3 squares, 4 times	7.50	
Union Publishing Co., advertis- ing teachers' examinations, 5 sq., daily 6, w. 2 t.	25.00	
Paid John B. Clarke:		
Advertising teachers' examination, 5 sq. 4 t. (Jan. 15)	9.25	
400 reports, 66 pages and cover	41.00	
Advertising teachers' examinations, 50 l., w. 2 t., d. 6 t. (July 31)	32.75	
Printing circulars of all kinds, blank forms of all kinds, and postal cards, bill headings, etc., used in the su- perintendent's office	210.55	
Printing 400 music programs and dates	7.75	
Blank-book orders, 200 leaves	4.00	
1,500 report cards (November)	12.50	
Blanks	18.75	
	<hr/>	\$389.05
Total expenditures for 1890		<hr/> \$502.28

CONTINGENT EXPENSES.

Appropriation raised by tax		\$800.00
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TRANSFERS.

Amount transferred from books and stationery	\$176.40	
transferred from repairs of schoolhouses	16.93	
transferred from tuition	<u>132.66</u>	
		<u>\$325.99</u>
		\$1,125.99

EXPENDITURES.

FREIGHT, REPAIRS, ETC.

Paid Jones's city and baggage express, freight and truckage	\$40.09	
John S. Avery, setting 7 lights of glass at High School	2.90	
S. A. Hill, setting glass and window cord, repairs	6.13	
Carl E. York, washing-powder and soap	3.64	
C. A. Hoitt, repairing 3 chairs	2.00	
J. G. Jones, freight bills and trucking	<u>8.18</u>	
		\$62.94

WATER AND GAS.

Paid Water-Works, for water	\$336.90	
People's Gas-Light Company, for gas	<u>164.36</u>	
		\$501.26

SUNDRIES.

Paid Charles H. Manning, expense to Milford, Mass., and return, in quest of high-school assistant	\$7.20
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Paid W. C. Richardson, moving settees from City Hall and Webster- street schoolhouse to engine- house on Webster street, and back again	\$12.58	
E. T. James, horse and carriage for committee	6.00	
A. A. Jenkins, tuning pianos	19.00	
Higgins Bros., use of 35 chairs at school festival, Opera House	1.50	
Higgins Bros., labor draping flag . . . . .	.80	
W. Heron, Jr., writing diplomas	27.35	
W. E. Buck, carriage hire and other expenses	82.32	
J. M. Kendall, cartage of models, evening drawing schools . . . . .	.95	
William H. Vickery, for keys . . . . .	.80	
Lizzie M. Cogswell, labor on ac- count of free text-books, superin- tendent's office	50.00	
C. A. Trefethen, repairing clocks	6.00	
C. A. Trefethen, clock for superin- tendent's office	4.50	
F. P. Colby, moving pianos at 3 schoolhouses	14.50	
Manchester Opera House Co., for use of Opera House 1 night	25.00	
B. N. Wilson, services as door- keeper at Opera House, high- school graduation	1.00	
J. B. Varick Co., 40 lbs. Manilla rope (1 inch)	6.40	
	<hr/>	\$265.90
Total expenditures		\$830.10
Balance overdrawn (expended in 1889)		295.89
		<hr/>
		\$1,125.99

CARE OF ROOMS.

Paid appropriation raised by tax	\$3,300.00
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TRANSFERS.

Amount transferred from tuition	\$86.76	
Amount transferred from evening school, mechanical drawing	135.93	
	<u> </u>	\$222.69
		<u> </u>
		\$3,522.69

EXPENDITURES.

LABOR.

Paid J. S. Avery, janitor of High, Ash, and Wilson Hill schoolhouses	\$600 00
James E. Bailey, janitor of Amos- keag schoolhouse from Decem- ber 24, 1889, to September 20, 1890	167.87
Alverta P. Barrett, janitor Harvey District, at \$1.50 per week	18.00
Ella F. Barker, at Hallsville, at \$1.50 per week	57.00
E. P. Cogswell, at training school	250.08
H. C. Dickey, Bakersville school- house	250.08
D. S. Dunbar, at Mosquito Pond	20.00
H. H. Proctor, at schoolhouse, Dis- trict No. 8	5.25
Emma J. Ela, at Harvey District	29.50
V. W. Fairbanks, at Webster-street and Blodget-street schools, 1 wk.	10.50
Michael Finley, at Webster-street and Blodget-street schools, to September 30, 1890	391.68

Paid Ruby Fox, at Youngsville school-house	\$15.00	
Samuel A. Hill, at West Manchester schoolhouse (12 months) .	525.00	
William H. Morrill, at Spring-street and Lowell-street schoolhouses (11 months)	350.04	
Frank Quartz, at Goffe's Falls .	14.50	
A. M. Robinson, at Stark District	40.25	
William Stevens, at Lincoln and Franklin schools (12 months) .	600.00	
Mrs. M. Tracy, cleaning at Webster's Mills schoolhouse . . .	3.50	
Otis L. Webster, at Webster's Mills	16.00	
Dollie R. Webster, at Webster's Mills	5.50	
Mrs. Peter Fish, cleaning at the Hallsville schoolhouse . . .	1.50	
Mrs. Nathan Sleeper, cleaning at the Hallsville schoolhouse .	2.50	
Inez M. Warren, cleaning schoolhouse, Stark District . . .	3.00	
	<hr/>	
Total expenditures in 1890		\$3,376.75
Balance overdrawn, January 1, 1890, (expended in 1889)		145.94
		<hr/>
		\$3,522.69

 EVENING SCHOOLS.

Appropriation raised by tax	\$1,500.00
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EXPENDITURES.

SALARIES.

Paid Frank C. Livingston, 23 evenings at \$2.20	\$50.60
F. C. Baldwin, 23 evenings at \$2.20	50.60

Paid Maud L. Kent, 23 evenings at \$1.00	\$23.00	
Chas. E. Cochran, 88 evenings at \$2.20	193.60	
Etta S. Dana, 88 evenings at 90c.	79.20	
Mary A. Buzzell, 5 evenings at 90c.	4.50	
Cora M. Dearborn, 1 evening at \$1.50	1.50	
Chas. W. Bickford, 88 evenings at \$2.20	193.60	
Emma J. Ela, 27 evenings at \$1.00	27.00	
Lizzie Hartford, 28 evenings at 90c.	25.20	
Lizzie Hartford, 45 evenings at \$1.00	45.00	
Maggie Linen, 22 evenings at 90c.	19.80	
Emma B. Abbott, 17 evenings at 90c.	15.30	
Nellie M. Atwood, 23 evenings at \$1.00	23.00	
C. A. Bohlin, 45 evenings at 90c.	40.50	
L. H. Carpenter, 37 evenings at \$2.20	81.40	
Nellie M. James, 33 evenings at 90c.	29.70	
Samuel C. Kennard, 31 evenings at \$1.00	31.00	
Maggie Linen, 30 evenings at 90c.	27.00	
Wm. J. Mooar, 36 evenings at 90c.	32.40	
F. S. Sutcliffe, 45 evenings at \$2.20	99.00	
Fannie L. Sanborn, 35 evenings at 90c.	31.50	
	<hr/>	\$1,124.40
JANITORS.		
Paid Wm. H. Morrill, services as janitor	\$62.60	
Samuel A. Hill, services as janitor cleaning Clinton-street school- house	25.90	
	<hr/>	\$88.50

BOOKS.

Paid Wm. P. Goodman, 1 dozen copy- books, No. 5	\$0.96	
	<u> </u>	\$0.96

PRINTING.

Paid Union Pub. Co., advertising even- ing schools 6 times	\$14.00	
John B. Clarke, advertising even- ing schools 6 times	10.20	
John B. Clarke, printing placards	5.25	
Daily Press Pub. Co.	8.00	
	<u> </u>	\$37.45

SUNDRIES.

Paid People's Gas Light Co.	\$3.50	
	<u> </u>	\$3.50
Total expenditures for 1889		1,254.81
Balance overdrawn last year (expended in 1889)		223.76
Amount transferred to repairs of schoolhouses		21.43
		<u> </u>
		\$1,500.00

EVENING SCHOOL, MECHANICAL DRAWING.

Appropriation raised by tax	\$600.00
Balance unexpended last year	351.66
	<u> </u>
	\$951.66

EXPENDITURES.

SALARIES.

Paid J. M. Kendall, for services	\$141.00	
H. W. Allen, for services	229.25	
A. H. Sanborn, for services	143.50	
	<u> </u>	\$513.75

JANITOR.

Paid W. H. Morrill, for services	\$23.40	
	<u> </u>	\$23.40

SUPPLIES.

Paid E. R. Coburn, drawing paper and T squares	\$22.88	
E. R. Coburn, drawing paper, 2 reams	36.00	
Jones's city and baggage express, moving models	1.00	
Temple & Farrington Co., 800 sheets paper printed in checks	5.75	
	<u> </u>	\$65.63

SUNDRIES.

Paid L. M. Aldrich, 47 hours' labor	\$11.75	
L. M. Aldrich, lumber, paint, etc.	12.68	
L. M. Aldrich, lumber and labor	17.26	
Union Publishing Co., advertising evening schools, mechanical drawing, 5 sq. 5 t.	15.00	
John B. Clarke, advertising even- ing schools, mechanical draw- ing	15.67	
John B. Clarke, printing cards, etc.	9.25	
Daily Press Publishing Co.	10.50	
	<u> </u>	\$92.11
Total expenditures for 1890		<u>694.89</u>

TRANSFERS.

Amount transferred to care of rooms	\$135.93	
Amount transferred to teachers' salaries	120.84	
	<u> </u>	\$256.77
		<u> </u>
		\$951.66

TEACHERS' SALARIES.

Appropriation raised by tax \$44,000.00

TRANSFERS.

Amount transferred from evening school, drawing	\$120.84	
transferred from free text-books	2.44	
transferred from reserved fund	1,801.94	
	<u> </u>	\$1,925.22
Balance paid from money in treasury, not otherwise appropriated		93.86
		<u> </u>
		\$46,019.08

EXPENDITURES.

TEACHERS' PAY-ROLL.

Paid for the month of :

January	\$4,175.05	
February	4,616.53	
March	4,611.59	
April	4,257.23	
May	4,655.18	
June	4,727.41	
August	50.00	
September	4,406.75	
October	4,730.88	
November	4,599.48	
December	4,574.77	
	<u> </u>	\$45,404.87
Amount overdrawn (expended in 1889)		614.21
		<u> </u>
		\$46,019.08

TUITION.

To balance from last year	\$14.19	
W. E. Buck, superintendent, fees collected of sundry pupils	428.75	
	<u> </u>	\$442.94

TRANSFERS.

Amount transferred to repairs of school-houses	\$202.27	
transferred to printing and advertising	21.25	
transferred to contingent expenses	132.66	
transferred to care of rooms	86.76	
	<u> </u>	\$442.94

FREE TEXT-BOOKS.

Appropriation raised by tax	\$9,000.00
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RECEIPTS.

Received from Gillott & Sons (overdraft)	\$7.55	
	<u> </u>	\$9,007.55

EXPENDITURES.

TEXT-BOOKS AND SUPPLIES.

Paid F. M. Ambrose	\$58.00	
	<u> </u>	\$58.00

FREE TEXT-BOOKS.

Paid Warren P. Adams	\$483.20
American Book Co.	377.40
Boston School Supply Co.	12.75

Paid A. S. Barnes & Co.	\$251.30
Clark & Maynard	42.00
E. R. Coburn & Co.	148.48
D. C. Colesworthy	43.60
John B. Clarke	96.35
Joel Daniels & Co.	77.72
Dion & Co.	30.46
Effingham, Maynard & Co.	87.96
Fauce Linus	10.00
Frost & Adams	2.34
Ginn & Co.	1,322.75
Gillott & Sons	50.33
W. P. Goodman	66.58
J. L. Hammett	435.28
D. C. Heath & Co.	204.42
Henry Holt & Co.	86.11
Harper & Brother	152.15
H. Hume	330.45
J. J. Holland & Co.	5.95
Holden Book Cover Co.	188.17
Ivison, Blakeman & Co.	381.30
N. T. Joy	10.75
King & Merrill	189.74
Chas. H. Kilburn	36.35
Lee & Shepard	69.34
Leach, Sherwell & Sanborn	10.20
J. B. Lippincott & Co.	866.75
Novelty Advertising Co.	11.35
Porter & Coates	45.30
G. S. Perry	102.85
Reynolds & Reynolds Co.	86.23
A. C. Stockin	321.20
Salisbury Manuf. Co.	17.00
Silver, Burdett & Co.	127.35
Carl Schoenhof	110.92
J. Stickney . . . . .	.60
Willard Small	12.76

Paid Thompson, Brown & Co.	\$200.98	
The Prang Educational Co.	598.01	
Thorp & Adams Manuf. Co.	18.00	
C. P. Trickey	4.40	
W. Ware & Co.	1,004.30	
Houghton, Mifflin & Co.	5.10	
Manchester Heating and Lighting Co.	7.56	
University Pub. Co.	4.17	
	<hr/>	\$8,806.26

LABOR.

Paid J. G. Jones, truckage, etc.	\$32.25	
H. E. Daniels, type writing . . . . .	.85	
Lillian Gray, labor	3.30	
Lillian Stearns, labor . . . . .	.95	
Fannie L. Sanborn, labor	99.50	
Maud L. Kent, labor	2.00	
Lizzie Cogswell, labor	60.00	
	<hr/>	\$198.85
Total expenditures for 1890		\$9,005.11
Amount transferred to teachers' salaries		2.44
		<hr/>
		\$9,007.55

CITY LIBRARY.

Balance unexpended January 1, 1890	\$2,628.05
Appropriation	4,000.00
Appropriation for catalogue	2,500.00
Appropriation for new books	1,000.00
	<hr/>
	\$10,128.05

EXPENDITURES.

LIBRARIAN AND ASSISTANT.

Paid Mrs. M. J. Buncher, librarian	\$800.00	
Alton F. Payne, assistant librarian	335.72	
	<hr/>	\$1,135.72

CATALOGUE.

Paid C. A. Durfee	\$748.00	
Mary P. Stone	20.33	
John B. Clarke, printing catalogue. and corrections	84.00	
Temple & Farrington Co., card- board, gummed letters and figures for catalogue	20.00	
Head & Dowst, lumber and labor	2.67	
	<u> </u>	\$875.00

RE-BINDING AND RE-SEWING.

Paid Temple & Farrington Co., re-binding and re-sewing	\$156.91	
	<u> </u>	\$156.91

NEW BOOKS.

Paid trustees, to be expended for new books	\$1,000.00	
	<u> </u>	\$1,000.00

BINDING.

Paid Temple & Farrington Co., binding books, etc.	\$194.85	
	<u> </u>	\$194.85

GAS, WATER, FUEL, AND INSURANCE.

Paid L. B. Clough, agent, insurance of \$10,000 on library contents	\$100.00	
L. B. Bodwell & Co., 1 cord of hard pine slabs	5.00	
L. B. Bodwell & Co., 15 pounds ice daily, May 30 to September 18, 1889	8.50	
L. B. Bodwell & Co., 15 pounds ice daily, June 19 to September 5, 1890	4.12	

Paid Water-Works, for water for the year		
1890	\$32.00	
People's Gas-Light Co.	216.86	
L. B. Bodwell & Co., 89,690		
pounds of egg coal	280.28	
	<hr/>	\$646.76

NEWSPAPERS.

Paid John B. Clarke, "Daily Mirror,"		
from April 1, 1889, to April 1,		
1890	\$6.00	
	<hr/>	\$6.00

SUNDRIES.

Paid John B. Clarke, printing 200 an-		
nual reports	\$11.00	
Temple & Farrington Co., paper,		
pens, ink, blotting paper, blank		
books, and other stationery	67.91	
C. F. Livingston, printing 21,500		
book covers	21.50	
C. F. Livingston, cover paper,		
freight, cartage of same	118.55	
N. P. Hunt, expenses to Boston to		
buy books	4.00	
N. P. Hunt, postage	1.68	
	<hr/>	\$224.64
Total expenditures for 1890		\$4,239.88
Balance to new account		5,888.17
		<hr/>
		\$10,128.05

FIRE DEPARTMENT.

Appropriation raised by tax \$35,000.00

RECEIPTS.

Received from district 2, for team labor from January to August 30, 1890	\$2,355.72	
from district 2, for team labor	1,026.00	
	<hr/>	\$3,381.72
Received from district 10, for team labor, January to August 30, 1890	\$810.50	
from district 10, for team labor	507.25	
	<hr/>	\$1,317.75
Received from John Lennon (overdraft)		6.00

TRANSFERS.

Transferred from reserved fund	\$1,797.35	
Balance . . . . .		.10
	<hr/>	\$41,502.92

EXPENDITURES.

SERVICE.

Paid Thomas W. Lane, chief engineer	\$1,000.00	
Fred S. Bean, assistant engineer	125.00	
Ruel G. Manning, assistant engineer	125.00	
Eugene S. Whitney, assistant engineer	125.00	
Clarence D. Palmer, assistant engineer	62.50	
Clarence B. Merrill, engineer	62.50	
Fred S. Bean, clerk	25.00	
	<hr/>	\$1,525.00

Paid 18 teamsters and engineers, as per pay-rolls:

January	\$900.75
February	964.50
March	939.50
April	955.00
May	924.00
June	924.00
July	913.00
August	913.50
September	922.25
October	954.25
November	1,001.00
December	1,010.00

————— \$11,321.75

call members, Amoskeag Steam Fire Engine Co., for the year 1890	\$1,476.66
extra duty, 2 men, July 3 and 4	8.00
call members, Fire King Steam Fire Engine Co., for the year 1890	1,385.00
extra duty, 2 men, July 3 and 4	8.00
call members, N. S. Bean Steam Fire Engine Co., for the year 1890	1,456.25
extra duty, 2 men, July 3 and 4	8.00
call members, Merrimack Steam Fire Engine Co., for the year 1890	1,460.00
extra duty, 4 men, July 3 and 4	8.00
call members, Gen. Stark Steam Fire Engine Co., for the year 1890	1,485.00
extra duty, 4 men, July 3 and 4	8.00
call members, Chemical Engine Co., for the year 1890	435.00
extra duty, 4 men, July 3 and 4	8.00

Paid call members, Massabesic Hose Co., for the year 1890	\$1,245.00
extra duty, 4 men, July 3 and 4	8.00
call members, Pennacook Hose Co., for the year 1890	1,245.00
extra duty, 4 men, July 3 and 4	8.00
call members, Excelsior Hook and Ladder Co., for the year 1890	1,935.00
A. E. Foster, 14 days driving	21.00
Thomas Brown, 16 nights doubling driver, Pennacook Hose Co. No. 1	4.00
John Burke, 8 nights driving doubling horse, Chemical	2.00
Henry Crosby, extra driving	11.75
A. B. Cushing, extra driving, 7 days	12.25
George W. Dimick, driving for Steamer No. 3, 17 nights extra	4.25
John T. Gott, 2 days driver Hose No. 1, at \$1.75	3.50
Henry C. Parsons, 45 days driving back-street team	67.50
Benjamin R. Richardson, 1 day driving Hose No. 2	1.50
Benjamin R. Richardson, 14 days engineer, Chemical Engine Co.	21.00
H. S. Reed, driving supply-wagon at 36 alarms	36.00
John Shea, driver of hose for Steamer No. 2. 1 day, 2 nights	2.50
John Shea, driving 'Squog horse 5 days	7.50
Stephen Thomas, 14 nights as doubling driver, on Fire King No. 2	3.50

Paid Stephen Thomas, 6 days' labor on boiler	\$6.00	
George E. Varnum, driver Steamer No. 2 (1 week)	12.50	
Edwin E. Weeks, 25½ days, engineer of Merrimack Steamer No. 3	44.52	
Henry A. Brown, use of horse for doubling, chemical engine	11.00	
John K. Wilson, 5¼ days' labor at Vine-street station	15.75	
John K. Wilson, lumber and hardware	6.40	
John K. Wilson, lumber and labor	21.63	
	<hr/>	\$12,502.96

LAUNDRY.

Paid Mrs. G. H. Wheeler	\$8.00	
Mrs. G. B. Forsaith	14.00	
Mrs. S. B. Batchelder	5.45	
Mrs. M. H. Hulme	32.80	
	<hr/>	\$60.25

FURNITURE, ETC.

Paid D. A. Simons, 3 iron cuspidors and 1 dozen mugs	\$2.88	
D. A. Simons, 2 towel-racks . . . . .	.90	
Paid Weston & Hill :		
Crash	2.38	
1 dozen pillow-cases, 1 dozen sheets, flannel, silk, making and hanging curtains, rubber mats, etc.	23.90	
1 dozen pillow-slips	2.00	
Crash and towels	5.13	
Matting and laying for Pennacook Hose No. 1	10.30	
½ dozen pillow-cases for Chemical Engine Co., 17 ² / ₃ yds. 5-4 inch matting, zinging ends	18.22	

65 $\frac{3}{4}$ yds. matting, zincing ends	\$53.13	
Zincing	1.50	
18 $\frac{1}{4}$ yds. matting, zincing ends	17.48	
Rubber mat	2.00	
4 yds. opaque, fixtures, etc.	2.34	
Charles A. Hoitt & Co., 1 wardrobe	13.00	
Charles A. Hoitt & Co., 1 dressing- case	9.00	
Charles H. Colburn, 11 window and door screen and fitting same, for Lake-avenue engine-house	14.00	
Charles H. Colburn, castings and labor on stall doors, at Merrimack steam fire engine house	5.52	
Jere. Hodge, 5 radiator boards, at Lake-avenue engine-house	3.50	
Paid Head & Dowst:		
Lumber and labor	7.30	
242 feet pine, Webster-street engine- house	9.68	
Lumber and labor, etc., for Lake- avenue engine-house	45.51	
Lumber and labor, etc., at Webster- street engine-house	51.71	
Paid C. H. Hutchinson, 1 $\frac{1}{2}$ hours' labor . . . . .	.60	
C. H. Hutchinson, planing weight, Vine-street engine-house, cast- ings, stand-pipe, etc.	5.26	
Temple & Farrington Co., making and hanging shades, N. S. Bean engine company	10.66	
J. K. Wilson, labor, lumber and hardware	35.30	
	<hr/>	\$353.20

PRINTING AND STATIONERY.

Paid John B. Clarke, printing 250 re- ports	\$30.00
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Paid John B. Clarke, envelopes, etc.	\$20.05	
John B. Clarke, 300 envelopes	7.50	
Temple & Farrington Co., stationery	4.50	
L. T. Mead, ink, letter paper and record book	4.12	
	<hr/>	\$66.17

WATER, GAS, AND TELEPHONE.

Paid Water-Works, for water	\$980.29	
People's Gas-Light Co., for gas	797.72	
New England Telegraph and Telephone Co., telephones, etc.	220.27	
	<hr/>	\$1,998.28

FUEL.

Paid L. B. Bodwell & Co. :		
1½ cords of wood	\$9.00	
58,830 pounds of coal, at \$6.50	191.20	
302,665 pounds of coal	1,062.71	
1 cord of slab wood	5.00	
2 barrels charcoal	1.00	
Paid Neil Fullerton, 12 cords cleft pine wood	54.00	
Neil Fullerton, 1½ cords hard wood	9.00	
A. Nolette, sawing and putting in wood	2.50	
John Lenard, sawing and splitting wood	12.00	
Stephen Gardner, splitting wood	15.00	
S. L. Flanders, 1½ cords of wood	10.38	
	<hr/>	\$1,371.79

TRUCKING AND FREIGHT.

Paid Boston & Maine Railroad for freight	\$0.90	
Concord Railroad, for freight	14.69	
John W. Wilson, for trucking	12.85	
J. G. Jones, for trucking . . . . .	.50	
	<hr/>	\$28.94

SUPPLIES.

Paid Plumer & Holton, 14 reefer coats	\$122.50
A. R. Gage, 1 pair gray horses .	400.00
Cavanaugh Bros., span of gray horses	650.00
Eureka Fire Hose Co., 3,000 feet hose	1,800.00
Samuel Eastman & Co., 3 Perfection nozzles and holders . .	105.00
Paid Cornelius Callahan Co. :	
2 Regan plaster-hooks and poles .	20.00
2 shut-off nozzles	30.00
2 flexible pipes	30.00
5 white rubber surf coats	37.50
3 sets call couplings	10.50
Nickel plating 2 snaps	1.25
2 Baltimore snaps	5.00
2 extinguisher holders	20.00
1 14-inch gong striker	6.00
2 belts	30.00
1 Holloway extinguisher	26.00
Paid Dennis Kerwin, soap and soapine	16.15
J. H. Wiggin & Co., ammonia and sugar	2.77
D. Milton Goodwin, 1 dozen H. brooms	4.50
L. M. Aldrich, mending pike pole .	.25
A. S. Jackson, 1 dozen spanners .	5.15
J. Hinman, 6 dozen bottles and corks, for fire extinguishers .	5.00
Manahan Manufacturing Co., 1 dozen ladder hooks and express	12.30
Sanborn Carriage Co., 1 straight hydrant wrench, etc.	1.55
Sanborn Carriage Co., 37 brackets, steel stride bar, etc.	17.10

Paid J. J. Abbott, setting glass . . .	\$6.14	
James R. Carr, painting and glazing	16.53	
S. L. Flanders, oil, chimneys, etc.	2.23	
Charles H. Hutchinson, labor on Stark hose wagon	2.10	
D. M. Poore, for 3 boxes of salt . . . . .	.60	
H. Fradd, matches and oil . . . . .	.30	
H. Fradd, 125 pounds bran	1.38	
Peter Milon, varnishing 2 wheels. Merrimack steam fire engine	2.50	
A. S. Jackson, for 6 squilgees	7.50	
A. S. Jackson, for 2 sets ax holders	4.00	
A. S. Jackson, for 6 globes, $\frac{1}{2}$ ruby	12.00	
Scollay & Rich, for polish, etc.	10.85	
J. A. W. Bird & Co., 1 barrel bicarbonate of soda	15.93	
Merrimack Chemical Co., 6 carboys vitriol	13.45	
Geo. C. Lord, matches, soapine, oil, and wicks . . . . .	.80	
	<hr/>	\$3,454.83

PLUMBING AND REPAIRS.

Paid Manchester Locomotive Works	\$582.69	
Pike & Heald	38.88	
Thos. A. Lane	219.31	
	<hr/>	\$840.88

HARDWARE.

Paid Killey & Wadleigh	\$69.98	
J. B. Varick Co.	2.29	
Manchester Hardware Co.	128.67	
	<hr/>	\$200.94

MEDICAL AND SURGICAL.

Paid Ellingwood & Co., 1 barrel "El-a-tol"	\$12.00	
Snelling & Wood, arnica, horse medicine, alcohol, etc.	38.55	
Edward H. Currier, 1½ dozen of Williams' Sure Cure	10.50	
A. W. Baker, dental work on 7 horses	14.00	
J. Blakely, services as veterinary surgeon	91.50	
George H. Ellinwood, veterinary dentistry	4.00	
Frank L. Way, for arnica . . . . .	.85	
Z. Foster Campbell, horse med- icine, powders, liniment, etc.	20.91	
	<hr/>	\$192.31

CARRIAGE WORK AND CARRIAGE REPAIRS.

Paid J. B. McCrillis & Son, repairs and other carriage work	\$554.88	
J. B. McCrillis & Son, 1 platform spring wagon	375.00	
J. B. McCrillis & Son, repairs, etc.	84.82	
Sanborn Carriage Co.	23.40	
A. Fillion	13.50	
J. B. McCrillis & Son, 1 combi- nation hose wagon	800.00	
John T. Beach, N. S. Bean hose wagon	400.00	
	<hr/>	\$2,251.60

BLACKSMITHING.

Paid Thomas Hickey	\$22.00
D. F. Cressey	95.35
Mahaney & McSweeney	260.78

Paid Jos. O. Tremblay	\$118.75
John F. Woodbury & Co.	147.90
Alonzo E. Gage, shoeing	4.00
Welcome & Sons, springs on new yoke	4.75
	<hr/>

\$653.53

HAY AND GRAIN.

Paid H. Fradd & Co., 40 bags of oats .	\$32.00
H. Fradd & Co., 175 pounds of bran	1.75
Wm. Clark, 13,685 pounds of hay	111.61
Moore & Preston, 885 pounds of straw	7.97
G. W. Butterfield, 1,620 pounds of hay	14.58
Daniel Butterfield, 19,075 pounds of hay	166.15
L. Rowe, 2,260 pounds of hay .	19.31
C. H. Rogers, 200 pounds rye straw	2.20
G. E. Lane, 980 pounds of hay .	8.82
Mary Cressey, 1,485 pounds of hay	13.36
Chas. D. Welch, 10,970 pounds of hay	98.73
John L. Woodman, 12,385 pounds of hay	111.46
L. Shelters, 25,063 pounds of hay	219.35
Pettee & Adams, oats, bran, etc. .	424.95
Drake & Dodge, oats and meal .	40.95
Parker R. Brown, oats	19.44
Drake & Parker, oats, shorts, etc.	295.81
Merrill & Freeman, oats, bran, etc.	278.36
Partridge Brothers, oats, bran, etc.	791.37
City farm, 26,615 pounds of hay .	231.79
C. M. Wheeler, 4,375 pounds carrots	39.38

Paid T. L. Emery, hay	\$37.87
A. D. Haynes, 6,980 pounds of hay	55.84
	<hr/>

\$3,023.05

HARNESSES AND HARNESS REPAIRS.

Paid Thomas P. Riley, 1 pair of reins (December, 1889)	\$3.50
W. H. Adams, harness repairing, etc.	202.20
Charles E. Berry, 2 pairs harnesses	40.00
Charles E. Berry, 2 collars, box, repairing hames	26.25
Charles E. Berry, 4 pole snaps	5.00
Granite State Plating Co., plating rein snaps, check chains, ro- settes, etc.	4.65
Paid H. C. Ranno & Son :	
1 Baker blanket	4.00
5 patent flail whips	10.00
1 canvas cushion	2.75
1 large nickel-ring bit	3.00
2 Salem collars	13.00
1 bridle	2.50
22 celluloid rings	4.30
1 pair exercise harnesses	40.00
2 Boston truck collars	9.00
New pieces and repairs	83.55
1 dozen 7-8 inch Ger. snaps . . . . .	.35
1 dozen 1-inch Ger. snaps . . . . .	.35
1 set English wool bandages	2.25
1 pair Kersey stable blankets	10.00
Paid Frederick Allen :	
Oleo, blacking, etc.	32.35
1 pair heavy double harnesses	75.00
Repairing harnesses, blankets, etc.	8.90
Paid D. S. Kimball, polish, rosettes, etc.	8.70

Paid H. C. Ranno & Son :

1 pair 90 x 96 Fawn street blankets	\$14.00
1 leatherine street blanket	3.00
2 lame straps, 70c., 3 cans oil and dressing	1.95
26 celluloid rings	7.20
1 whip, \$1, 1 pair breeching straps	2.50
1 double swing harness	50.00
Repairing and altering harness to double	17.50
Repairing pair of swing collars	2.00
1 1½-inch double pole strap	4.50
Repairing harness	2.75
2 Kersey stable blankets	10.00
3 surcingles	2.55
2 whips	4.00
1 pair nickel trimmed swing harnesses	100.00
3 swing collars	3.75
1 collar, 2 halters, bridle attachment	9.50
Repairing plow harness, etc.	3.75
2 wool blankets	15.00
2 Salem collars	13.00
Labor and strapping on hose wagon	3.75
2 brushes	1.00

\$863.30

LABOR OF MEN AND TEAMS.

Paid labor of men and teams from District No. 2 :

January	\$106.50
February	39.50
March	39.00
April	33.75
May	28.50
June	28.50
July	63.50
August	66.00

September	\$57.75	
October	31.50	
November	52.12	
December	43.50	
	<hr/>	\$590.12

SUNDRIES.

Paid E. G. McKean, rent of stable 2 weeks	\$2.00	
James Brothers, use of hack	5.00	
Joint Standing Committee on fire department, Frank A. Lane, chairman, expenses of said committee to Lawrence, Haverhill, Worcester, and Boston, in the interest of the aerial truck and combination wagon :		
Fares	21.72	
Hotel and meals	16.05	
C. A. Trefethen, repairing clocks	9.00	
Wheeler & Rogers, clipping horses	42.00	
Jos. Breault, use of hack conveying injured fireman to his residence	2.00	
Thomas W. Lane, cash paid express at sundry times	8.65	
C. P. Trickey, blank books, etc.	3.21	
George Gagnon, assisting steamer to fire	1.00	
	<hr/>	\$110.63
Total expenditures for 1890		\$41,409.53
Amount transferred to fire-alarm telegraph		93.39
		<hr/>
		\$41,502.92

FIRE-ALARM TELEGRAPH.

Appropriation raised by tax	\$1,200.00
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TRANSFERS.

Amount transferred from incidental ex- penses	\$293.85	
Amount transferred from fire department	93.39	
	<hr/>	\$387.24
Received from D. B. Varney (overdraft)	. . . . .	20.00
		<hr/>
		\$1,607.24

EXPENDITURES.

LABOR.

Paid Thomas W. Lane, Jr., 167 days at \$1.50	\$250.50	
Thomas W. Lane, Jr., 77 days at \$1.75	134.75	
George E. Badger, 17 days at \$1.25	21.25	
Henry C. Parsons, 26 days at \$1.50	39.00	
	<hr/>	\$445.50

SUPPLIES.

Paid Mason, Chapin & Co., 5 barrels of blue vitriol, 2,500 at $5\frac{1}{4}$ c.	\$131.25
Mason, Chapin & Co., 6 barrels of blue vitriol, 2,859 at $4\frac{7}{8}$ c.	139.38
W. H. Darling, 522 zinc castings at 35c.	182.70
Paid D. B. Varney :	
106 zinc castings at 35c.	57.10
381 zinc castings at 35c.	98.35
8 composition castings at 35c.	2.80
2½ sheets of copper at 30c. . . . .	.75
Paid J. B. Prescott & Son, 100 standard zincs	25.10

Paid Manhattan Electric Supply Co. :	
200 copper connections	\$11.90
3 experimental coils	1.80
24 binding posts	1.73
Bell, switches, etc.	4.30
Paid J. H. Runnell & Co., jars, line, tapping clamp, etc.	
	13.33
Paid Rogers & DeCrow :	
500 pony glass insulators, etc. . . .	17.75
Lightning arresters	6.00
2 fire-alarm signal boxes	250.00
50 main keys at 25c.	12.50
Paid American electric works, rubber, etc.	
	49.43
Washburn & Moen Manuf. Co., 210½ feet copper wire at 18¾c.	
	39.47
Electric Gas-Lighting Co., 1 No. 2 screw driver	
	.34
Electric Gas-Lighting Co., other tools	
	10.39
Killey & Wadleigh, paints and oils and hammer handles	
	6.68
Manchester Hardware Co., wire nails, washers, and other hard- ware	
	12.59
C. H. Hutchinson, 1 pound iron and labor on pins	
	2.03
Sanborn Carriage Co., 7 tripods and welding feet on two	
	6.10
Sanborn Carriage Co., making over bolt, and other blacksmith- ing	
	6.20
Pike & Heald, soldering	
	.85
J. Brodie Smith, renewing battery, 2 auto-burners, and other work and materials	
	23.90
Head & Dowst, 266 feet spruce, and labor	
	7.52

 \$1,122.25

FREIGHT AND TRUCKAGE.

Paid Concord R. R., freight	\$3.40	
Boston & Maine R. R., freight	4.03	
John W. Wilson, truckage	1.75	
	<u> </u>	\$9.18

SUNDRIES.

Paid James Brothers, team	\$8.50	\$8.50
	<u> </u>	<u> </u>
Total expenditures for 1890		\$1,585.43

TRANSFERS.

Amount transferred to reserved fund		21.81
		<u> </u>
		\$1,607.24

HYDRANT SERVICE.

Appropriation raised by tax	\$18,000.00	
Amount transferred from reserved fund		80.00
		<u> </u>
		\$18,080.00

EXPENDITURES.

Paid Water-Works, for water :		
1st quarter	\$4,390.00	
2d quarter	4,550.00	
3d quarter	4,550.00	
4th quarter	4,590.00	
	<u> </u>	
Total expenditures for 1890		\$18,080.00

FIREMEN'S PARADE.

Appropriation raised by tax	\$500.00	
Transferred to reserved fund		500.00

11 tons of coal at \$6.50	\$71.50	
6½ cords of hard wood	45.50	
11½ cords of hard wood	73.50	
52.8075 tons coal at \$6.25	330.05	
Paid A. C. Wallace, 1 cord of wood . .	1.75	
Water-Works, for water	321.15	
L. B. Bodwell & Co., 20 pounds ice daily from May 8 to Oct. 31	15.20	
	<u>15.20</u>	\$1,731.25

TELEPHONE AND TELEGRAPH.

Paid New England Telephone and Tele- graph Co., use of telephones at Central and Clinton-street sta- tions, and tolls	\$157.78	
Western Union Telegraph Co., for telegrams	40.39	
	<u>40.39</u>	\$198.17

TEAMS.

Paid D. H. Morgan, use of team	\$6.00	
Whitten & Fifield, use of team	1.00	
John N. Foss, use of team	4.00	
James Brothers	2.25	
E. T. James	151.00	
J. C. Nichols, use of teams	3.25	
	<u>3.25</u>	\$167.50

FEEDING PRISONERS.

Paid Daniel Davis, for rations	\$117.00	
	<u>117.00</u>	\$117.00

PRINTING AND STATIONERY.

Paid John B. Clarke:		
Criminal dockets and blank writs for police court	\$52.25	
Printing 200 annual reports	16.00	
Sundry advertisements	31.50	

Blanks, letter headings, etc. . . .	\$41.75	
1,000 envelopes, 500 printed . . .	2.75	
Paid advertising notice to license dogs (1889)	21.50	
advertising notice to license dogs	21.00	
Paid Daily Press Publishing Co., adver- tising notice to license dogs . . .	15.00	
E. R. Coburn & Co., letter paper, ink, etc., for police court . . .	5.17	
Temple & Farrington Co., station- ery for police court	3.63	
Temple & Farrington Co., sta- tionery for marshal	14.23	
Paid A. S. Campbell & Co. :		
Police court docket, mittimus . . .	8.90	
Blanks for court	25.00	
Blank writs for marshal	18.75	
Blank writs and civil docket . . .	6.50	
Paid Campbell & Williams, civil dockets	19.00	
	<hr/>	\$302.93

SUNDRIES.

Paid Thomas D. Luce, appeals certificate to police court	\$4.00
labor of men and teams in district No. 2	6.25
H. W. Longa, cash paid for wit- ness' fees, teams, etc.	116.97
David Perkins, officers' fees on two complaints	3.24
J. F. Cassidy, expenses to Boston and return	5.00
Longa & Cassidy, conveying pris- oners to the house of correction	784.00
Thomas Francœur, killing 38 dogs	22.50
Ada Francœur, caring for lost chil- dren	13.00

Paid Ada Francoeur, washing towels, blankets, etc.	\$69.00
Mrs. Filibert, scrubbing and clean- ing	102.65
L. W. Colby, photographing crim- inals	8.00
Patrick Scollard, brooms, brushes, matches, crackers, etc.	42.23
Clark M. Bailey, 2 cases of toilet paper	20.00
Clark M. Bailey, 15 pounds mop yarn, 400 paper bags, etc.	3.07
A. J. Wheeler, repairing police belts . . . . .	.40
W. H. Vickery, keys, repairing locks, etc.	2.20
R. D. Gay, awnings and netting	30.00
D. Evans & Co., 1 gross coat but- tons	10.00
D. Evans & Co., 1 gross vest but- tons	5.00
D. Evans & Co., 1 gross small buttons	5.00
R. D. Martin, engraving police badge	3.00
J. Y. McQueston & Co., 2 cotton mattresses	7.00
J. Y. McQueston & Co, 2 pairs of pillows	3.00
J. Y. McQueston & Co., other supplies	17.00
Carl E. York, brushes, brooms, coffee, sugar, etc.	18.89
Carl E. York, soapine	4.93
Carl E. York, crackers	19.39
Novelty Advertising Co., stamp and outfit . . . . .	.40

Paid Geo. Blanchet, gingham, crash, towels, thread	\$5.70
Geo. D. Towne, M. D., services in case John Moore	1.50
Chas. E. Dodge, call in case of John Brown	3.00
John J. Holland, prescriptions, ammonia, insect powder, etc. (1889 and 1890)	38.90
Lewis K. Mead, 1 carboy of am- monia, bath brush, hairbrush, comb, etc.	34.03
Ellingwood & Co., $\frac{1}{2}$ gross El-a-tol (disinfectant)	25.00
Mary A. Gorman, salt, crackers, ivory, and matches	7.48
Killey & Wadleigh, one 22 feather duster	2.00
Killey & Wadleigh, 1 night latch	.75
J. B. Varick Co., pails, brush, mop stick, coal sieve, lock, ham- mer handles, sperm oil, feather duster, and other hardware, ax handle, 1 dozen brooms, paper bags, etc.	31.58
Chas F. Sprague, cotton and crash	3.10
J. F. Conway, repairs on broken carriage	4.50
Geo. W. Rief, 630 pounds coco- bolo wood, all for billies	25.20
Geo. W. Rief, labor and freight	21.84
Geo. W. Rief, 26 long billies	32.50
Jos. E. Power, 35 police badges	61.25
D. Evans & Co, 3 gross M. P. coat buttons	20.00
T. L. Thorpe, 55 pounds waste	2.50

Paid Boston & Maine Railroad, for freight	\$0.84	
J. H. Cram . . . . .	.75	
C. W. Downing, medical services at sundry times	49.50	
Robitaille Brothers	8.26	
John W. Wilson, trucking . . . . .	.50	
	<hr/>	\$1,706.80

REPAIRS.

Paid J. J. Abbott, painting	\$309.18	
L. M. Aldrich, labor, putty, glass, knobs, lumber, blacksmithing	39.08	
Pike & Heald, labor and materials	11.85	
Chas. E. Lord, mason work, whitewashing, etc.	60.55	
M. J. Coleman, repairs on water-closets, etc.	21.67	
Thomas A. Lane, plumbing	80.90	
Pettee & Adams, lime and cement . . . . .	.81	
James P. Finn, paint and labor	12.52	
C. E. Longa, electrical bell and putting in the same	5.53	
John Driscoll	17.80	
Albert N. Nettle	2.50	
L. Wolf, repairs at Clinton-street station	17.00	
	<hr/>	\$579.39
Total expenditures for 1890		\$37,096.16
Amount transferred to reserved fund		843.41
		<hr/>
		\$37,939.57

REPAIRS OF BUILDINGS.

Appropriation raised by tax	\$4,000.00
Amount transferred from reserved fund	443.87
	<hr/>
	\$4,443.87

EXPENDITURES.

ENGINE-HOUSES.

Paid J. J. Abbott, paints, paper, and labor	\$111.09
Pike & Heald, materials for and labor on gutter, etc.	10.59
John K. Wilson, 150 feet chair rail, 20 hours' labor, painting	15.50
C. H. Hutchinson, 12½ hours' labor on clock, Fire King engine-house	5.00
F. J. Dustin, paints, oil, etc.	11.37
Chas. H. Colburn, chair rail and labor	5.55
Temple & Farrington Co., 156 feet molding, putting up	17.88
Thos. A. Lane, plumbing and materials	91.71
Thos. A. Lane, steam contract for bath-room, etc., in Chemical engine-house	250.00
Thos. A. Lane, materials and labor on boiler, Vine-street engine-house	51.22
J. B. Varick Co., paints, brushes, etc., N. S. Bean stables	11.37
Geo. L. Young, labor, composition, felt, Fire King engine-house	4.88

Paid Louis Wolf, labor and stock in repairing water-pipe, putting in ventilators, registers, etc. . . .	\$11.90	
Head & Dowst, amount as per contract for changes and additions to the N. S. Bean steam fire engine house	2,490.00	
Head & Dowst, lumber, labor, and hardware at various engine-houses	229.87	
Head & Dowst, lumber, labor, and hardware, N. S. Bean engine-house	42.36	
Chas. E. Lord, mason labor, etc. .	2.50	
A. C. Wallace, 50 feet chestnut, Fire King engine-house . . .	1.25	
	<hr/>	\$3,364.04

CITY LIBRARY.

Paid J. J. Abbott, glass and setting .	\$0.50	
James R. Carr & Co., setting glass	2.50	
Frank F. Cate, labor cutting lawn, cleaning windows, sweeping sidewalks, etc.	14.00	
R. Landers, slate, zinc, cement, labor, etc., repairing roof .	9.92	
Thos. A. Lane, plumbing	33.53	
Thos. A. Lane, r valve, pipe, and labor	1.40	
George Holbrook, labor on door and springs	1.75	
George Holbrook, labor and cord for city library	8.25	
	<hr/>	\$71.85

COMMON COUNCIL ROOM.

Paid J. J. Abbott, paints, paper, and labor	\$66.09	
Chas. E. Lord, mason labor, etc.	33.15	
	<u> </u>	\$99.24

PUBLIC COMFORT.

Paid Thomas A. Lane, plumbing	\$15.46	
	<u> </u>	\$15.56

BATTERY BUILDING.

Paid George L. Young, labor, zinc, nails, and solder	\$19.18	
	<u> </u>	\$19.18

POLICE STATION.

Paid Head & Dowst, expense of flag-pole, finishing, painting, and putting up the same	\$55.86	
	<u> </u>	\$55.86

LABOR, DISTRICT NO. 2.

Paid labor of men and teams, per pay-roll, District No. 2 :

January	\$57.13	
February	47.00	
March	21.00	
April	25.50	
May	21.00	
June	32.63	
July	27.00	
August	21.00	
September	25.50	
October	21.00	
November	21.00	
December	25.50	
	<u> </u>	\$345.26

Paid labor of men and teams, per pay-roll, district No. 10, in September		99.03
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SUNDRIES.

Paid Drake & Dodge, 5 casks of lime, 2 bags C. F. salt	\$7.00	
Killey & Wadleigh, 3 lights of glass, 1 dozen rubber washers26	
Killey & Wadleigh, 1 extra roll for 1 Vic. hanger . . . . .	.25	
J. B. Varick Co., lock, harness hook, strap hinges, etc.	2.57	
Paid George Holbrook :		
Labor on bronze door-latch, city en- gineer's office	3.25	
603 feet oak plank, 20 pounds spikes, trucking, 29 hours' labor	32.92	
Work, nails, etc., at sundry buildings	3.30	
Paid Whitten & Fifield, span and dou- ble sleigh, for committee on lands and buildings	3.00	
Lovejoy & Stratton, repairing, winding, and care of clocks on all schoolhouses and other public buildings, for the year 1890	317.50	
D. F. Cressey, bolts for shed to store sand	3.90	
	<hr/>	\$373.95
Total expenditures for 1890		<hr/> \$4,443.87

NEW CITY STABLES.

Amount transferred from reserved fund . . . \$6,000.00

EXPENDITURES.

Paid Mead, Mason & Co., on contract
for building \$2,500.00

Paid Mead, Mason & Co., balance contract for building	\$3,306.00	
Charles H. Robie, 314.04 yards concrete in basement	157.02	
S. C. Forsaith Machine Co., lumber for grain boxes, etc. . . .	27.78	
Head & Dowst, lumber, door jambs, etc.	3.22	
	<u> </u>	\$5,994.02
Amount transferred to reserved fund		5.98
		<u> </u>
		\$6,000.00

NEW SCHOOLHOUSE, WEST MANCHESTER.

Balance unexpended last year	\$9,185.75
Appropriation raised by tax	30,000.00

RECEIPTS.

Received from E. W. Brigham, for stone steps	\$38.50
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TRANSFERS.

Amount transferred from incidental expenses, for school furniture	\$900.00	
transferred from reserved fund, to balance	3,579.61	
transferred from reserved fund, for school	200.00	
	<u> </u>	\$4,679.61
		<u> </u>
		\$43,903.86

EXPENDITURES.

FURNITURE.

Paid Head & Dowst, 130 hours putting down school desks	\$32.50	
Grand Rapids School Furniture Company	963.80	
	<u> </u>	\$996.30

BUILDING.

Paid Head & Dowst, on contract :

May	\$4,500.00
June	3,000.00
July	7,500.00
September	7,300.00
October	4,100.00
November	1,500.00
December	9,385.00

 \$37,285.00

Bill of extras, — timber, bolts, and labor changing trusses

 \$107.90

On account of excavation and foundation

 1,500.00

 \$1,607.90

Paid Head & Dowst :

3 days' labor on stairway partition	\$7.50
189.14 perch of stone, foundation below grade	756.56
165.4 days' excavation, below grade	248.00
15,100 brick	214.42

 \$1,226.48

PRINTING.

Paid Union Publishing Co., advertising proposals to complete schoolhouse in West Manchester .

 \$20.00

 \$20.00

GRADING.

Paid pay-roll, district No. 10, labor of men and teams, grading lot, etc.

 \$629.18

 \$629.18

ARCHITECT'S COMPENSATION.

Paid Fred W. Stickney, for plans	\$500.00	
Fred W. Stickney, on commission	400.00	
Fred W. Stickney	1,039.25	
	<u> </u>	\$1,939.25
Total expenditures in 1890		\$43,704.11
Balance carried to new account		199.75
		<u> </u>
		\$43,903.86

COMMONS.

Appropriation raised by tax	\$4,000.00
Amount transferred from reserved fund	204.03
Balance overdrawn	10.00
	<u> </u>
	\$4,214.03

EXPENDITURES.

REPAIRS AND GENERAL EXPENSES.

Paid John A. Sargent, lampblack and green paint	\$4.38
John J. Abbott, paint and labor	16.47
John B. Varick Co., lawn-mower, hardware, clover seed, etc.	64.06
Killey & Wadleigh, cylinder for 14-inch lawn-mower	2.95
Pike & Heald, materials and plumbing	5.92
W. H. Vickery, repairing and sharpening lawn-mowers	4.00
D. J. Adams, grinding, cleaning, etc., lawn-mowers	1.00

Paid C. H. Hutchinson, 1 casting, cover, 178 lbs. at 3c.	\$5.34	
C. H. Hutchinson, labor on lawn- mowers	19.94	
L. M. Aldrich, lumber, labor, etc.	13.13	
John J. Bennett, brick, cement, and labor	3.20	
Thomas A. Lane, materials and labor plumbing	42.12	
Jere. Hodge, lumber and grade- stakes	13.62	
Temple & Farrington Co., 1 time- book . . . . .	.50	
	<hr/>	\$196.63

WATER AND MACADAMIZING.

C. H. Robie :

New walks in Merrimack common, 72.55 sq. yds., at 45c.	\$32.64	
Re-covering walks in Merrimack com- mon, 1,394.66 sq. yds., at 25c.	348.66	
Other concrete work	289.59	
Concrete work in Concord common, 1,892.45 sq. yds., at 25c.	473.11	
Paid Water-Works, for water for year	300.00	
	<hr/>	\$1,444.00

FLOWERS, LOAM, ETC.

Paid J. S. Holt & Co., 160 bushels of ashes at 15c.	\$24.00
Lewis Coir, 110 loads of loam	99.00
Crombie & Patten, 23 maple trees for Merrimack common	23.00
Crombie & Patten, 1 elm tree for Park-street common	1.00
Crombie & Patten, 1 rock maple for Hanover common	1.00

Paid F. S. Worthen & Son, flowers on Hanover common	\$27.43	
Flanders & Hood, flowers on Tre- mont common	38.84	
H. H. Huntress, flowers	74.05	
D. H. Young, manure	3.00	
John J. Silva	30.00	
Cavanaugh Brothers, sand	46.75	
	<hr/>	\$368.07

LABOR, DISTRICT NO. 2.

Paid labor of men and teams, as per pay-roll :

January	\$6.13	
February	37.25	
March	57.18	
April	54.25	
May	204.80	
June	143.68	
July	20.00	
August	384.43	
September	227.25	
October	62.25	
	<hr/>	\$1,197.22

Paid labor of men and teams, per common's pay-roll :

April	\$83.75	
May	144.00	
June	157.62	
July	148.75	
August	105.00	
September	191.99	
October	104.75	
November	72.25	
	<hr/>	\$1,008.11

Total expenditures for 1890	<hr/>	\$4,214.03
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STARK MONUMENT SQUARE.

Paid appropriation raised by tax	\$100.00
Transferred from Water-Works	8,000.00
	<hr/>
	\$8,100.00

EXPENDITURES.

Paid labor of men and teams, as per common's pay-roll :	
June	\$7.25
July	8.75
August	12.75
October	7.75
November	24.25
	<hr/>
	\$60.75
Paid Stark heirs, for land	8,000.00
Transferred to reserved fund	39.25
	<hr/>
	\$8,100.00

PINE GROVE CEMETERY.

Appropriation raised by tax	\$1,000.00
Balance on hand January 1, 1890	548.59

RECEIPTS.

Received from B. A. Stearns, superintendent, from sale of lots	\$1,783.37
from S. B. Putnam, treasurer of trustees of cemetery funds	2,600.00
from George A. Vergin (overdraft)	40.00
	<hr/>
	\$5,971.96

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per Pine Grove cemetery pay-rolls:

January	\$190.57
February	190.23
March	190.47
April	281.45
May	317.46
June	383.65
July	382.34
August	300.57
September	351.83
October	279.13
November	274.51
December	207.70

Paid Byron A. Stearns, 29 days' work of team, from December 23, 1889, to January 25, 1890 .

43.50

\$3,393.41

PLANTS, TREES, LOAM, AND CLAY.

Paid H. H. Huntress, flower plants .	\$50.00
J. Woodman, for 97 loads of loam	145.50
Waterman Smith, 1,250 feet turf at 1½c.	18.75
George H. Folsom, 45 rock maple trees	15.00
A. Turcotte, 5 loads of loam .	7.50
C. C. Webster, 158 loads of clay .	158.00
Frank Emerson, 212 loads of loam	371.00

\$765.75

COAL, WATER, TELEPHONE, ETC.

Paid John Driscoll, stove brush and blacking, large water-pot and tin dippers

\$6.57

Paid Darwin A. Simons, 2 cuspidors	\$0.70	
L. B. Bodwell & Co., 6 tons egg coal	40.50	
Water-Works, for water from October 1, 1889, to October 1, 1890	300.00	
New England Telegraph and Tele- phone Co., use of telephone	48.25	
Moore & Preston, 5 70-2,000 tons coal at \$6.25	33.98	
	<hr/>	\$430.00

BOOKS AND STATIONERY.

Paid Wm. E. Moore, 2 blank books	\$6.50	
Wm. E. Moore, 100 postals and printing same	2.50	
Wm. E. Moore, printing note heads	2.50	
Temple & Farrington Co., paper, ink, rubber bands, and other sta- tionery	8.19	
Byron A. Stearns, postage and envelopes	3.29	
	<hr/>	\$22.98

REPAIRS AND IMPROVEMENTS.

Paid Head & Dowst, lock, keys, knobs and labor, lumber, brick	\$23.12
N. Whalen, straps and repairing	3.25
John T. Beach, repairs on team	45.50
J. J. Abbott, painting and varnish- ing	4.50
John B. Varick Co., oil, nails, hose coupling, window brush, grass seed, phosphate, etc.	66.31
Pike & Heald, plumbing and materials	74.29

Paid Jere. Hodge, grade stakes, nails, and labor	\$14.63	
C. W. Anderson & Co., repairing clocks	2.00	
Timothy Shea, cleaning vault	3.00	
J. Stickney, rubber overcoat and blanket	9.00	
C. H. Hutchinson, 2 cast stands finished	1.20	
J. H. Wales, materials and labor for chimney	4.00	
Palmer & Garmon, 100 graves numbered, stones and labor	47.15	
	<hr/>	\$297.95

GENERAL EXPENSE.

Paid J. C. Nichols & Son, carriage hire for committees	\$21.00	
Geo. W. Reed, carriage hire for committees	2.00	
James Brothers, use of team	4.00	
Henry H. Huse, services as clerk, and for making the annual report	50.00	
E. T. James, use of teams	4.00	
Henry P. Hunter, clerk for com- mittee	25.00	
G. R. Vance & Co., 1 hanging lamp and bracket	1.45	
	<hr/>	\$107.45
Total expenditures for 1890		\$5,017.54
Amount transferred to reserved fund		654.22
Balance		300.20
		<hr/>
		\$5,971.96

VALLEY CEMETERY.

Appropriation raised by tax	\$1,500.00
Balance unexpended last year	70.45
Received from C. H. G. Foss, superintendent	1,300.00
	<hr/>
	\$2,870.45

EXPENDITURES.

LABOR.

Paid labor, as per pay-roll, at cemetery :

January	\$71.25	
February	52.75	
March	51.50	
April	140.45	
May	197.50	
June	196.20	
July	277.86	
August	208.42	
September	231.77	
October	166.57	
November	166.58	
December	105.25	
Paid George Piper, team labor	96.00	
B. F. Bascom, team labor $5\frac{3}{4}$ days	23.00	
	<hr/>	\$1,985.10

WATER, TURF, SAND, ETC.

Paid George Piper :

Turf and sand	\$18.37
Stone	8.00
37 loads of sand	7.40
5 loads of stone	3.75
Team $2\frac{3}{4}$ days	11.00
Paid Water-Works for water, from Oct.	
1, 1889, to Oct. 1, 1890	35.55
Timothy Carr, 7 loads of loam	7.00
C. C. Webster, 266 feet of turf	7.98

Paid George Whitford, 335 loads of filling	\$67.00
Peter Woodman, 850 feet of turf	10.00
Peter Woodman, 73 loads of loam	36.50
J. Francis, flower plants	81.87
C. H. G. Foss, cash paid for flowers, shrubs, etc.	7.12
Killey & Wadleigh, fertilizers, grass seeds, etc.	25.81
Paid J. B. Varick Co. :	
1 lawn-mower	6.90
50 feet $\frac{1}{2}$ -inch rubber hose	4.00
75 feet $\frac{1}{2}$ -inch rubber hose	6.75
Fertilizers, grass seed, etc.	28.73
Nails, brush, etc. . . . .	.69
Paid F. X. Chenette, 107 loads of filling	21.40
F. X. Chenette, team 1 $\frac{1}{2}$ days	4.25
C. H. Chase, evergreens	4.00
Paid L. M. Aldrich :	
Filing 2 saws . . . . .	.40
2 door frames	1.00
3 screen doors	9.00
7 coffin boxes	6.40
Paid B. F. Bascom, 3 loads of loam	3.00
S. W. Blood, 37 loads of loam	18.50
	<hr/>

\$442.37

STATIONERY.

Paid Temple & Farrington Co., blank book and stationery	\$4.19
F. G. Riddle, 300 receipts, printed and bound	1.75
Campbell & Williams, 200 receipts	1.25
	<hr/>

\$7.19

LABOR, DISTRICT NO. 2.

Paid labor, as per pay-roll, District No. 2 :	
February	\$4.00
April	53.87

RECEIVING TOMB.

561

June	\$23.13	
July	61.38	
	<u> </u>	\$142.38

REPAIRS, EXTENSIONS, TOOLS, ETC.

Paid Pike & Heald, plumbing and materials	\$53.12	
Palmer & Garmon, lead and stone work	5.60	
J. J. Abbott, paints and painting	7.68	
C. H. Hutchinson, repairs on gate, etc.	2.83	
Thomas A. Lane, Akron pipe, plumbing on extension of water-works, labor on urinal	80.93	
G. W. Dodge, rubber boots, 1 pair	2.50	
Manchester Hardware Co., 4 lawn rakes	2.00	
Head & Dowst, 189 loads of gravel and grading	56.41	
Head & Dowst, 2 loads of stone	1.00	
Pettee & Adams, $\frac{1}{2}$ barrel cement . . . . .	.75	
	<u> </u>	\$212.82
Total expenditures for 1890		\$2,789.86
Amount transferred to reserved fund		80.59
		<u> </u>
		\$2,870.45

RECEIVING TOMB.

Balance unexpended from last year	\$399.39
Transferred to reserved fund	399.39

WATER-WORKS.

Balance on hand January 1, 1891 \$39,589.15

RECEIPTS.

Receipts from water rents	\$89,970.80	
fines	151.80	
labor, and pipe sold	298.77	
sale of grass	2.00	
G. G. Griffin, lease	1.00	
George P. Clark, lease	2.00	
Fletcher Brown, lease	1.00	
W. G. Brown, rent	36.00	
	<hr/>	\$90,463.37
		<hr/>
		\$130,052.52

EXPENDITURES.

GENERAL EXPENSES.

Paid Charles K. Walker, superintendent :	
Salary	\$1,500.00
Gas	38.78
Two directories	4.00
Express	9.05
Postage stamps	20.13
Repairing chairs	2.25
Car fare	1.00
Sundries	6.66
Paid Burnham & Brown, counsel fees	5.00
Jos. B. Sawyer, for services as civil engineer, and for expenses and cash paid for recording deeds	620.40
M. M. Tidd, for services and report on high-pressure service	359.60
Town of Auburn, taxes	20.88
Town of Auburn, one half expense rubblng shore	21.05

Paid E. R. Angell, analysis of water . . .	\$6.25	
John N. Foss, team to station . . .	2.00	
Thomas M. Freeman, team to station	9.00	
E. T. James, team	66.50	
James Brothers	35.50	
Paid Geo. Fletcher & Co. :		
24 dinners	36.00	
Lunch	4.00	
Steamboat use	20.00	
Paid A. R. Ingham, 9 dinners	9.00	
A. R. Ingham, 4 dinners for horses	2.00	
George E. Morrill, auditing Water-Works account, 1889, 4½ days at \$5 per day	22.50	
J. Y. McQueston & Co., 6 chestnut chairs	3.00	
New England Telegraph and Telephone Co., use of three telephones	108.00	
H. I. McQuade, repairing telegraph at pumping station	4.50	
James A. Weston, clerk of board of water commissioners	50.00	
	-----	\$2,987.05

DAMAGES.

Paid N. S. Bean S. F. Engine Co., for pumping out cellar	\$8.60
J. J. Abbott, glass and setting, at Webster block	4.60
Mrs. E. Boudreau	5.00
Leander Boudreau	16.00
Norman H. Colby	300.00
Thomas Carey	5.00
Thomas Corcoran	75.00
Joseph Drapeau	6.00

Paid E. Dauphine	\$5.00	
P. Flatterly	10.00	
Mrs. C. Gallagher	10.00	
Mrs. L. Lavalier	5.00	
Michael Leighley	5.00	
Mrs. R. Mandleshon	5.00	
Thomas H. Mahoney	10.00	
Renker & Scheer	15.00	
Chas. H. Robie, concrete work on Main-street engine-house	38.51	
Chas. H. Robie, concrete work on Manchester street	22.95	
Thos. H. Tuson	24.10	
Geo. W. Webster	25.00	
	<hr/>	\$595.76

LAND.

Paid T. J. Crombie, for land	\$243.75	
A. F. Fox, buildings and lease	875.00	
J. P. Griffin, for land	47.00	
George W. Reed, for land	900.00	
Charles H. Reed, for land	225.00	
	<hr/>	\$2,290.75

METERS, GAUGES, GATES, PLUMBING MATERIALS, ETC.

Paid American Steam Gauge Co., guages	\$21.50
Chapman Valve Co., gates	488.10
Gilchrist & Gorham, plumbing materials	191.06
Hays Manufacturing Co., stop- cocks and service boxes	380.65
Thomas A. Lane, plumbing mate- rials	88.37
Ludlow Valve Manufacturing Co., 10 hydrants	352.00
National Meter Co., for meters	2,827.50
Thomson Meter Co., for meters	147.40

Paid Union Water Meter Co., for meters and repairs	\$261.20	
Walworth Manufacturing Co., cor- poration cocks, etc.	181.83	
W. H. Ward & Co., corporation cocks and bands	50.00	
	<hr/>	\$4,989.61

BRICK, CEMENT, LUMBER.

Paid Pettee & Adams, cement	\$36.90	
Parker & Jencks, hemlock boards	8.66	
D. I. Mahoney, lumber, meter boxes, etc.	236.85	
Mills & Sturtevant, lumber, posts, etc.	134.14	
Head & Dowst, brick and lumber	19.45	
J. Hodge, lumber and boxes	14.85	
Parker R. Brown, cement and wood	8.55	
	<hr/>	\$459.40

IRON PIPE, CASTINGS, ETC.

Paid Builders Iron Foundry, iron pipes, reducers, branches	\$618.73	
Boston Lead Manufacturing Co., 100 pounds of fine solder	15.75	
Chadwick Lead Works, lead pipe and pig lead	874.96	
Holyoke Hydrant Iron-Works, 20 hydrants	680.00	
P. C. Holmes & Co., two bevel wheel rims	158.66	
McNeal Pipe and Foundry Co., for pipe	3,001.54	
Manchester Locomotive Works, materials and labor	407.54	

Paid Pennichuck Water-Works, iron pipe	\$17.70	
Whittier Machine Co., water gates and pipes, coated with adamanta	602.04	<u> </u>
		\$6,376.92

HARDWARE.

Paid Manchester Hardware Co., picks, barbed wire, etc.	\$38.08	
J. B. Varick Co., nails, strap hinges, staples, oil, bolts, butts, paints, solder, pick handles, lanterns, measuring tape, sponges, packing, etc.	195.69	<u> </u>
		\$233.77

BLACKSMITHING.

Paid D. F. Cressey, sharpening picks, drills, chisels, etc.	\$38.80	
A. Filion, repairing pipe wagon	19.50	<u> </u>
		\$58.30

FREIGHT AND TRUCKAGE.

Paid Concord Railroad Corporation	\$520.49	
J. W. Wilson, truckage	25.00	<u> </u>
		\$545.49

PRINTING AND STATIONERY.

Paid A. S. Campbell & Co., note heads, postals, etc.	\$9.25	
Campbell & Williams, 2,900 water notices, 1,000 postals printed	31.50	
John B. Clarke, printing 500 reports, 32 pages	28.50	
John B. Clarke, 800 pamphlets, 20 pages, and covers	32.00	
John B. Clarke, advertising sundry notices	10.50	

Paid E. R. Coburn & Co., envelopes, rubber bands, paper, ink, etc.	\$19.15	
Daily Press Publishing Co., adver- tising water bills . . . . .	.80	
Temple & Farrington Co., blocks, pencils, and other stationery	5.64	
Thomas Tuson, 14,050 meter and rate bills	45.80	
	<hr/>	\$183.14

FUEL.

Paid Austin, Flint & Day, for 2½ loads of wood	\$7.15	
Burns & Poore, for coal and wood	10.37	
Moore & Preston, 8¾ tons of coal (egg)	59.63	
J. F. Wyman, wood	4.70	
Geo. Whitford, wood	21.00	
E. P. Johnson Co., 46 tons Draper egg coal	322.00	
E. P. Johnson Co., 4 400-2000 tons coal (stove)	30.45	
	<hr/>	\$455.30

TOOLS, SUPPLIES, AND REPAIRS.

Paid P. C. Cheney Co., 60 pounds No. 1 wiping waste	\$4.80	
City of Manchester, 13½ days' work	20.25	
Cavanaugh Brothers, 23 loads of sand	5.75	
John Driscoll, tin cup, washdish, etc.	1.60	
Eager & Rand, oil, soap, brooms, etc.	3.10	
Edson Manufacturing Co., 15 feet suction hose, 3-inch	23.52	

Paid E. A. G. Holmes, labor, window frames, sash, etc.	\$187.90
C. H. Hutchinson, labor and materials furnished	165.06
Dennis Kerwin, $\frac{1}{2}$ barrel tallow, 124 pounds at 6c.	7.44
L. L. Lord, tools	11.05
Leonard & Ellis, 98 $\frac{1}{2}$ gallons burning oil	19.75
Pike & Heald, materials and labor	70.61
J. Brodie Smith, renewing battery, etc.	5.92
J. Stickney, 4 oak leather packing	20.00
Seeley Brothers, 5 gallons marine black	6.50
Summer & Goodwin, calking irons, ladle, etc.	11.00
Sewell & Day Cordage Co., jute packing	48.62
Stark Mills, for use of 2-horse wagon	150.00
Taunton Locomotive Manufacturing Co., one melting furnace	18.50
Vacuum Oil Co., 103 $\frac{1}{2}$ gallons cylinder oil	67.28
G. R. Vance & Co., 6 galvanized iron pails	6.00
Paid Amoskeag Manufacturing Co. :	
1 crown gear, 125 feet, and finishing, planing, shrinking on wrought iron hook, with royalty	180.00
2 steel splines, 2 steel backers	5.20
Labor on drills	3.50

 \$1,043.35

LABOR OF MEN AND TEAMS, AS PER PAY-ROLLS.

Paid labor of men and teams, per pay-rolls :

January	\$1,046.19	
February	899.41	
March	964.24	
April	984.59	
May	1,047.54	
June	1,103.82	
July	1,326.33	
August	1,017.53	
September	1,372.90	
October	1,103.69	
November	1,107.69	
December	1,133.42	
	<u> </u>	\$13,107.35

Paid labor of men and teams, per pay-roll, district No. 2, September		<u>77.50</u>
Total expenditures for 1890		\$33,403.69

TRANSFERS.

Amount transferred to interest	\$36,000.00	
transferred to reserved fund	9,711.47	
transferred to Stark Monument square	8,000.00	
	<u> </u>	\$53,711.47
Balance		<u>42,937.36</u>
		\$130,052.52

PAUPERS OFF THE FARM.

Appropriation raised by tax	\$2,000.00
Received from county of Hillsborough, for board of paupers	2,201.57
Amount transferred from reserved fund	<u>134.89</u>
	\$4,336.46

EXPENDITURES.

GROCERIES.

Paid G. W. Adams, groceries . . .	\$44.00
Charles H. Clark, groceries . . .	22.10
Allen N. Clapp, groceries . . .	44.00
L. Dowd, groceries . . .	10.00
Eager & Rand, groceries . . .	60.00
H. Fradd & Co., groceries . . .	24.16
T. F. Fifield, groceries . . .	95.00
Griffin Bros., groceries . . .	221.00
Patrick Harrington, groceries . . .	87.00
O. D. Knox, groceries . . .	5.00
Michael Kearns, groceries . . .	3.90
Michael Kenney, groceries . . .	40.00
George C. Lord, groceries . . .	12.00
Thomas H. Mahoney, groceries . . .	114.00
John McKean, groceries . . .	16.00
McQuade Bros., groceries . . .	88.00
D. M. Poore, groceries . . .	15.49
Robitaille Bros., groceries . . .	24.96
Patrick Ryan, groceries . . .	86.00
W. F. Sleeper & Co., groceries . . .	10.00
Town of Enfield, groceries . . .	2.72
Carl E. York, groceries . . .	5.00
B. Bresnehan, groceries . . .	8.00
D. A. Shanahan, groceries . . .	12.00

 \$1,050.33

WOOD AND COAL.

Paid L. B. Bodwell & Co., for fuel . . .	\$19.50
Fred T. Dunlap, for fuel . . .	42.30
S. L. Flanders, for fuel . . .	7.87
Patrick Healy, for fuel . . .	12.00
Thomas Kelley, for fuel . . .	40.00
Moore & Preston, for fuel . . .	2.00
E. P. Johnson Co., for fuel . . .	7.25
F. X. Chenette, for fuel . . .	2.00
William Smith, 1/2 cord of wood . . .	4.00

 \$136.92

CARE AND BOARD.

Paid county of Hillsborough . . .	\$56.00	
Mrs. William Chase . . .	120.00	
DeCoursey & Holland . . .	3.00	
Cordelia A. Farwell . . .	6.69	
A. D. Hatch . . .	120.00	
Ellen J. Maycock . . .	65.18	
New Hampshire Asylum for the Insane . . .	104.68	
Joseph Rivard . . .	67.00	
State Industrial School . . .	2,271.43	
John D. Welcome . . .	116.00	
	<hr/>	\$2,929.98

CLOTHING.

Paid F. L. Downs, for shoes . . .	\$1.50	
Plumer & Holton, hose . . .	1.50	
Weston & Martin, 1 wool shirt . . .	1.50	
	<hr/>	\$4.50

MEDICINE.

Paid Eames Brothers . . .	\$12.75	
Lane & Co. . .	8.00	
Lewis K. Mead . . .	20.00	
J. J. Holland & Co. . .	5.50	
A. D. Smith . . .	.75	
	<hr/>	\$47.00

SUNDRIES.

Paid John B. Clarke, blank bills . . .	\$8.75	
C. W. Downing, certificate of in- sanity (2 cases). . .	6.00	
L. Melville French . . .	3.00	
H. D. Lord, house rent . . .	6.00	
David Moore, rent . . .	10.20	
H. P. Marshall, conveying, at dif- ferent times, two insane paupers to asylum . . .	12.68	

Paid Temple & Farrington Co., for 8 directories	\$16.00	
F. L. Wallace & Co., burial expenses	67.00	
Charles F. Flanders, certificate of insanity	3.00	
Thomas F. Collins, burial of H. Donovan	25.00	
E. V. Turcotte, burial expenses	10.00	
	<hr/>	\$167.63
Total expenditures for 1890		<hr/> \$4,336.46

CITY FARM.

Appropriation raised by tax \$4,000.00

RECEIPTS.

Received from L. M. Streeter, superintendent of city farm, as follows:

Hay sold	\$856.84
Potatoes	464.63
Pigs	253.00
Fines	208.12
Labor	193.75
Straw	115.22
Butter	43.24
Lard	33.00
Eggs	12.55
Stone	98.89
Cabbage	50.75
Beets	16.56
Hides	15.43
Veal	8.46
Chickens	3.00

Pork	\$8.25	
Cream and milk	6.70	
Hams sold	3.65	
Rhubarb	7.95	
Squash	7.54	
Parsnips	2.48	
Corn	1.00	
Beans	1.50	
Carrots	1.25	
Weighing hay	4.40	
Old iron	5.74	
Dandelions	2.25	
Use of boar	2.00	
Use of bull	1.00	
Grass	2.00	
Turnips . . . . .	.85	
Board of sow . . . . .	.75	
	<hr/>	\$2,432.75
Received of the estate of J. B. Clark	\$12.64	
of Otis Barton (overdraft)	15.63	
of J. B. Baril (overdraft)	1.00	
	<hr/>	29.57
Transferred from reserved fund		1,004.98
		<hr/>
		\$7,467.30

EXPENDITURES.

HOUSE AND FARM LABOR.

Paid L. M. Streeter, superintendent	\$500.00
Mrs. Mary E. Streeter, matron	300.00
George W. Bailey	129.00
Lucy Bunker	68.61
Thomas Burke	85.05
Arthur Bancroft	82.65
Thomas Barker	1.35
Edward Burke	16.00
Annie Cook	4.94
Wm. Cheney	10.66
Levi Colwell	4.00

Paid Mary Clark	\$21.25
Alfred Corey	2.62
W. E. Davis	87.00
Wm. Day	16.00
J. B. Ensworth	40.00
Mrs. T. J. Estes	100.74
Thomas J. Estes	185.95
C. Estes	2.58
Wm. Fowler	26.66
James Francœur	7.00
John Gilbert	25.86
Michael Godfrey	1.25
Patrick Healy	5.00
Kate Houghton	64.29
Hannah Hackett	47.82
H. D. Judkins	16.13
L. A. Lannon	20.00
Michael Lowe	2.00
Chas. L. Lyford	10.00
Peter McQuillan	42.00
Nettie A. Merrill	8.38
Frank Merrill	16.90
James H. Martin	5.00
Kate Proctor	31.71
Levi J. Proctor	48.65
John Proctor	39.50
Wm. C. Rogers	9.87
Hattie A. Rever	21.78
H. W. Schimmell, Jr. . . .	32.50
Jennie Sargent	6.88
Mary Smith	78.70
W. K. Stockdale	9.00
G. D. Sanborn	60.99
Edward Tilton, cutting ice	10.00
C. W. Pike	80.00
Patrick Murphy	1.00
Warren Harvey	4.00

 \$2,391.27

FUEL.

Paid Moore & Preston :		
10 tons stove coal		\$75.00
1 barrel Cumberland coal		1.00
30 925-2,000 tons furnace coal		179.73
Paid Burns & Poore, 9 tons of egg coal		
at \$6.85		61.65
Burns & Poore, 1 barrel Cumber-		
land coal		1.00
		—
		\$318.38

CLOTHING AND DRY GOODS.

Paid Barton & Co., crash, cambric,		
prints, cottons, etc.		\$83.97
George Blanchet, drilling, ging-		
ham, etc.		53.79
Clark & Estey, socks, drawers,		
needles, etc.		61.77
Charles F. Sprague, check, cottons,		
etc.		9.30
H. M. Moody, jumpers, overalls,		
coats, caps, umbrella, collars,		
straw hats, etc.		53.30
Paid James A. Folsom :		
Overalls, suits, and hat		16.00
2 pairs of pants		2.50
5 vests		3.75
11 jumpers		5.50
Paid Weston & Hill, 92 $\frac{1}{4}$ cottons at		
7 $\frac{1}{2}$ cents		6.92
G. W. Dodge, boots, shoes, etc.		29.30
F. L. Downs, boots, shoes, etc.		35.00
Fred C. Dow, boots, shoes, etc.		11.87
Wingate & Gould, shoes, etc.		28.80
Burke Bros., calf shoes		2.00
H. B. Fairbanks, 5 pairs of shoes		3.75
		<hr/>
		\$407.52

GROCERIES AND PROVISIONS.

Paid Bartlett & Thompson, 366 pounds of beef at 7 cents	\$25.62
G. W. Batchelder, 22 bushels of potatoes at 95 cents	20.90
C. E. Cox, beef	280.52
A. N. Clapp, oil	25.75
Eager & Rand, groceries	22.62
A. G. Grenier, groceries	114.84
George H. Hubbard, tobacco	103.79
Hardy & Co., groceries	56.86
McQuade, Bros., groceries	172.27
Manchester Beef Co., beef and lamb E. S. Newton, lobsters, oysters, fish, etc.	26.21
J. H. Pierce & Co., groceries	34.61
Public Market, S. P. Pike & Co., beef and provisions	99.85
Joseph Quirin, groceries	83.57
Tom W. Robinson, beef	8.13
L. Shelters, onions, potatoes, and flour	77.33
R. G. Sullivan, smoking tobacco	114.99
J. H. Wiggin, groceries	19.44
Carl E. York	113.02
Drake & Parker, 24 barrels Pills- bury's best flour	62.49
Merrill & Freeman, 3 barrels Roll- er Queen flour	180.30
E. M. Slayton, 40 bushels of pota- toes	15.45
Manchester Provision Co., 3 pork barrels	32.00
Manchester Provision Co., 17 pounds Bologna saugages	3.00
Manchester Provision Co., other provisions	1.02
	4.50

Paid N. H. Brewing Co., barrels, etc.	\$15.92	
George C. Lord, provisions . . .	.30	
	<hr/>	\$1,715.30

FURNITURE AND COOKING UTENSILS.

Paid Dunmore & McQuarry, for one 6-gallon jar	\$1.00	
F. E. Nelson, crockery, knives and forks, kitchen utensils	39.91	
D. A. Simons, platters and bakers	12.66	
C. A. Trefethen, watchman's clock	80.00	
C. A. Trefethen, forks, knives, spoons, and alarm clock . . .	10.00	
Weston & Hill, carpet and thread	8.44	
Paid Higgins Brothers :		
1 dark pine chamber suit	15.00	
1 spring bed	3.00	
1 excelsior mattress	2.00	
27 yards carpeting	17.55	
2 skeins thread . . . . .	.06	
3 sham holders	1.50	
1 spring bed	3.00	
	<hr/>	\$194.12

SERVICES AND MEDICINES.

Paid Jabez Alexander, V. S., services, and medicines to animals . . .	\$14.00	
J. B. Baril, insect powder, etc. . .	11.95	
E. H. Currier, expectorant . . .	1.00	
Eames Bros., prescriptions . . .	5.85	
Dr. L. M. French, visit	3.00	
J. J. Holland, prescriptions . . .	1.90	
J. N. Lacourse & Co., medicines	1.63	
L. K. Mead, prescription . . . . .	.35	
	<hr/>	\$39.68

STOCK.

Paid Cavanaugh Bros., 1 span of brown mares	\$500.00	
John L. Woodman, 1 boar	6.00	
	<hr/>	\$506.00

FERTILIZERS, SEEDS, ETC.

Paid Aretas Blood, 5 cords of manure at \$3.50	\$17.50	
Bartlett & Dow, 1 ton Mapes Potato Fertilizer	45.00	
James P. Elliott, 2 bushels yellow-eyed beans	7.00	
John N. Foss, 23 cords of manure at \$3.50	80.50	
James H. Gregory, vegetable seeds	8.50	
May Brothers, 2 cherry and 2 plum trees, 8 grape and 24 blackberry vines	16.25	
P. J. Page, 3 loads of manure at \$1.50	4.50	
L. B. Putnam, 4 loads of manure at \$2	8.00	
Killey & Wadleigh, 1,000 pounds Bradley's X. L. Phosphate	18.00	
	<hr/>	\$205.25

HARDWARE.

Paid Killey & Wadleigh :	
252 pounds galvanized wire at 5 $\frac{3}{4}$ c.	\$14.49
126 pounds galvanized wire	7.25
1 mowing-machine sharpener	5.75
1 champion horse-rake	24.00
Other hardware	42.33
Paid Manchester Hardware Co., paint, varnish, tools, and hardware	61.17

Paid J. B. Varick Co., plow-points, coffee mill, etc.	\$12.50	
B. Varick Co., Yankee plow, 2 hog scrapers	13.00	
	<hr/>	\$180.49

HAY, GRAIN, AND OTHER FEED.

Paid Parker R. Brown, bran, rye meal, oats, etc.	\$32.19	
Merrill & Freeman, bran, oats, meal, middlings	467.51	
Partridge Brothers, oats, meal, middlings, etc.	53.35	
Pettee & Adams, bran, oats, meal, middlings, etc.	146.02	
	<hr/>	\$699.07

REPAIRS AND IMPROVEMENTS.

Paid Pettee & Adams, 1 cask of lime, 100 pounds of cement	\$2.00	
S. C. Forsaith Machine Co., laths, lumber, and labor on windmills	15.00	
C. H. Hutchinson, nuts, screws, bolts, and labor on boiler	33.94	
Head & Dowst, 1,000 feet spruce boards	15.00	
Head & Dowst, 200 laths . . . . .	.52	
Head & Dowst, 600 feet hemlock boards	8.40	
Thomas A. Lane, materials and plumbing	36.29	
Manchester Heating and Lighting Co., stove grates, repairs	23.08	
Pike & Heald, stove grate, zinc, etc.	3.87	
Pike & Heald, dippers, kettles, and repairs	3.05	

Paid D. L. Stevens, deputy sheriff, 8 feet stable gutter	\$1.20	
L. N. Westover, lumber and labor	49.43	
J. J. Abbott, paints	13.30	
George Holbrook, 9 hours' labor at stable	2.50	
A. C. Wallace, lumber	8.62	
	<hr/>	\$216.20

BLACKSMITHING, HARNESES, ETC.

Paid J. H. Cram, shoeing horses and oxen	\$76.25	
F. N. McClaren, sponges, dusters, and repairing harnesses	11.95	
F. N. McClaren, 2 collars, halters, repairing harness, etc.	27.50	
J. B. McCrillis & Son, painting wagon, neckyoke, setting 4 tires, etc.	35.54	
Paid H. C. Ranno & Son :		
1 pair heavy team harnesses	65.00	
1 pair leather fly nets	3.00	
Stable blanket, and one pair street blankets	10.50	
Leatherine blankets	1.50	
Paid Thomas P. Riley, robe, whip, and axle grease	12.75	
J. O. Tremblay, shoeing horses	4.00	
P. D. St. Germain . . . . .	.75	
	<hr/>	\$248.74

SUNDRIES.

Paid New England Telegraph & Telephone Co., use of telephone	\$38.50
J. O. Burbank, 150 printed envelopes . . . . .	.85

Paid Clough & Co., 2 boxes	\$1.20	
Wm. C. Chase, 108 pounds wash- ing powder	7.56	
Concord Railroad, freight	2.60	
John B. Clarke, 25 $\frac{1}{4}$ ruled sheets	2.50	
C. W. Leonard, disinfectants . . .	15.75	
R. D. Martin, rubber stamp	1.00	
F. P. Proctor, axle oil . . . . .	.68	
E. P. Richardson, agent, \$10,000 insurance in the Manufacturers & Merchants'	200.00	
G. G. Richardson, buttons, needles, stove polish, etc.	19.17	
Temple & Farrington Co., paper, pens, ink, order book	15.20	
Temple & Farrington Co., room paper, etc.	2.04	
Union Publishing Co., advertising pigs for sale	7.60	
A. C. Wallace, 4 loads of sawdust	4.00	
L. M. Streeter, postage stamps, machine needles, expenses to Boston and return, expenses to Wilton, return, etc.	26.63	
	<hr/>	\$345.28
Total expenditures for 1890		<hr/> \$7,467.30

INDIGENT SOLDIERS.

Appropriation raised by tax \$1,000.00

EXPENDITURES.

HOUSE RENT.

Paid Agnes Linen	\$15.00
D. Moore	27.00
W. C. Blodgett	6.00
	<hr/>
	\$48.00

CLOTHING.

Paid Chalifoux & Co.	\$3.00	
George L. Robinson	2.00	
	<u> </u>	\$5.00

GROCERIES.

Paid G. W. Adams, groceries	\$124.00	
Allen N. Clapp	4.71	
Griffin Bros.	276.00	
McQuade Bros.	3.00	
Thomas H. Mahoney	24.00	
E. W. Perkins	7.75	
W. F. Sleeper & Co.	20.00	
George C. Lord	8.00	
	<u> </u>	\$467.46

FUEL.

Paid L. B. Bodwell & Co.	\$17.25	
F. T. Dunlap	16.28	
E. P. Johnson Co.	8.00	
	<u> </u>	\$41.53

CARE AND BOARD.

Paid Mrs. N. Cook	\$82.00	
Daniel Sullivan	78.00	
	<u> </u>	\$160.00

MEDICINE.

Paid L. K. Mead	\$4.65	
	<u> </u>	\$4.65

SUNDRIES.

Paid O. D. Abbott, certificate of in- sanity	\$3.00	
C. W. Downing, certificate of in- sanity	3.00	

MILITIA.

583

Paid G. W. Nutter, expenses to Concord and return	\$5.18	\$11.18
	<u> </u>	<u> </u>
Total expenditures for 1890		\$737.82
Amount transferred to reserved fund		<u>262.18</u>
		\$1,000.00

WOMEN'S AID AND RELIEF HOSPITAL.

Appropriation raised by tax		\$400.00
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EXPENDITURES.

Paid Women's Aid and Relief Hospital	\$400.00	\$400.00
	<u> </u>	

FREE BEDS, ELLIOT HOSPITAL.

Amount transferred from reserved fund		\$600.00
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EXPENDITURES.

Paid Elliot Hospital	\$600.00	\$600.00
	<u> </u>	

MILITIA.

Appropriation raised by tax		\$900.00
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EXPENDITURES.

Balance	\$900.00	\$900.00
	<u> </u>	

DECORATION OF THE SOLDIERS' GRAVES.

Appropriation raised by tax	\$300.00
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TRANSFERS.

Transferred from reserved fund	\$74.27
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\$374.27

EXPENDITURES.

Paid J. G. Hutchinson, commander of Louis Bell Post, for bills paid sundry persons, as follows :

PRINTING.

Paid Frank H. Challis, for printing	\$11.25	
	<hr/>	\$11.25

CARRIAGE HIRE.

Paid W. J. Freeman, for two barges and hack	\$12.00	
F. X. Chenette, for two barges and one barouche	17.00	
E. T. James, landau in parade	4.00	
Whitten & Fifield, two hacks	8.00	
C. H. Simpson, two hacks	8.00	
Joseph Shiney, team	1.50	
John N. Foss, hack	4.00	
J. C. Nichols & Son, 6 hacks	24.00	
E. V. Turcotte, 1 hack	4.00	
	<hr/>	\$82.50

MUSIC AND SINGING.

Paid Unitarian choir, for services	\$15.00
committee on St. Joseph's cemetery, by D. S. Healy	10.00
Manchester Military Band, First regiment	75.00

INTEREST ON TAXES.

585

Paid War Veterans' Drum Corps . . .	\$15.00	
G. A. R. Quartet, services . . .	7.00	
Manchester City Band . . .	50.00	
	<u> </u>	\$172.00

SUNDRIES.

Paid cash paid for stamped envelopes, postage stamps, postal cards, etc.	\$9.17	
Higgins Bros., use of chairs . . .	2.25	
First Light Battery, powder . . .	10.35	
H. H. Huntress, buttonhole bou- quets	12.50	
Hartley E. Vaughn, use of 20 settees	1.50	
Hartley E. Vaughn, 25 headstones	1.00	
Palmer & Garmon, 25 flagstones . .	17.25	
W. W. Bennett, services, etc., at hall	3.00	
Clarence A. Hart & Co., decora- tive merchandise	43.00	
E. P. Richardson, in part, for bill of C. C. Colby	8.50	
	<u> </u>	\$108.52
Total expenditures for 1890		<u>\$374.27</u>

INTEREST ON TAXES.

RECEIPTS.

Received from George E. Morrill, collector of taxes	\$342.44
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TRANSFERS.

Transferred to reserved fund	\$342.44	
	<u> </u>	\$342.44

ABATEMENT OF TAXES.

Appropriation raised by tax \$3,000.00

EXPENDITURES.

Paid sundry persons on taxes abated	\$2,999.39	
	<u> </u>	\$2,999.39
Amount transferred to reserved fund . . . . .		.61
		<u> </u>
		\$3,000.00

DISCOUNT ON TAXES.

Appropriation raised by tax \$10,000.00

TRANSFERS.

Amount transferred from reserved fund	\$1,265.25	
	<u> </u>	\$11,265.25

EXPENDITURES.

Paid sundry persons, discount on taxes	\$11,265.25	
	<u> </u>	\$11,265.25

STATE TAX.

Appropriation raised by tax \$63,435.00

EXPENDITURES.

Paid Solon A. Carter, state treasurer	\$63,435.00	
	<u> </u>	\$63,435.00

COUNTY TAX.

Appropriation raised by tax	\$40,508.54
Balance paid from money in the treasury not specifically appropriated	5,523.93
	<u>5,523.93</u>
	\$46,032.47

EXPENDITURES.

Paid E. F. Jones, county treasurer	\$46,032.47
	<u>46,032.47</u>
	\$46,032.47

RESOLUTION RAISING MONEY AND MAKING APPROPRIATIONS FOR THE YEAR 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That the sum of four hundred fifty nine thousand seven hundred forty-three and 54-100 dollars (\$459,743.54) be raised for the use of the city for the year 1890, by tax on the polls and estates liable to be taxed therein, which, together with such unappropriated money as may be now in the city treasury, or may hereafter come into it, shall be appropriated as follows :

CENTRAL DEPARTMENT.

Interest	\$17,000.00
Reserved fund	20,000.00
Printing and stationery	1,200.00
Incidental expenses	15,000.00
City officers' salaries	15,500.00

STREET AND SEWER DEPARTMENT.

Highway District No. 1	\$300.00
“ “ . 2	12,000.00

Highway District No. 4	.	.	.	.	.	\$500.00
“ “ 5	.	.	.	.	.	500.00
“ “ 6	.	.	.	.	.	500.00
“ “ 7	.	.	.	.	.	1,300.00
“ “ 8	.	.	.	.	.	800.00
“ “ 9	.	.	.	.	.	500.00
“ “ 10	.	.	.	.	.	3,300.00
“ “ 11	.	.	.	.	.	1,000.00
“ “ 12	.	.	.	.	.	300.00
“ “ 13	.	.	.	.	.	200.00
New highways	.	.	.	.	.	9,000.00
Damage for land taken for highways	.	.	.	.	.	1,000.00
Watering streets	.	.	.	.	.	7,500.00
Lighting streets	.	.	.	.	.	41,000.00
Paving streets	.	.	.	.	.	5,500.00
Macadamizing streets	.	.	.	.	.	18,000.00
Grading for concrete	.	.	.	.	.	4,000.00
Sewers and drains	.	.	.	.	.	20,000.00
Bridges	.	.	.	.	.	4,000.00
City teams	.	.	.	.	.	2,500.00
Scavenger teams	.	.	.	.	.	12,000.00
Street sweeping	1,200.00

ENGINEERS' DEPARTMENT.

Engineers' department	\$3,000.00
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HEALTH DEPARTMENT.

Health department	\$1,400.00
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SCHOOL DEPARTMENT.

Repairs of schoolhouses	\$3,700.00
Fuel	3,200.00
Furniture and supplies	1,000.00
Books and stationery	.	.	.	.	.	400.00
Printing and advertising	.	.	.	.	.	400.00
Contingent expenses	.	.	.	.	.	800.00

APPROPRIATIONS.

589

Care of rooms	\$3,300.00
Evening schools	1,500.00
Teachers' salaries	44,000.00
Truant officer	750.00
Evening school, mechanical drawing	600.00
New text-books, free	9,000.00

CITY LIBRARY.

City library	\$4,000.00
Catalogue, city library	1,000.00

FIRE DEPARTMENT.

Fire department	\$35,000.00
Fire-alarm telegraph	1,200.00
Hydrant service	18,000.00
Firemen's parade	500.00

POLICE.

Police department	\$31,000.00
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PUBLIC BUILDINGS.

Repairs on buildings	\$4,000.00
New schoolhouse, West Manchester	30,000.00

PUBLIC PLACES.

Commons	\$4,000.00
Stark Monument square	100.00
Pine Grove cemetery	1,000.00
Valley cemetery	1,500.00

PATRIOTIC, CHARITABLE, AND PHILANTHROPIC.

Paupers off the farm	\$2,000.00
City farm	4,000.00
Indigent soldiers and their dependent families	1,000.00
Women's Aid and Relief Hospital	400.00
Decoration of soldiers' graves	300.00
Militia	900.00

TAXES.

Abatement of taxes	\$3,000.00
Discount on taxes	10,000.00
State tax	63,435.00
County tax	<u>40,508.54</u>
	\$545,493.54

And that the sum of thirty-six thousand dollars be transferred from Water-Works to interest.

The estimated receipts for the year are :

Amount to be raised by tax	\$459,743.54
Insurance tax	3,650.00
Railroad tax	17,000.00
Savings bank tax	61,600.00
Literary fund	<u>3,500.00</u>
	\$545,493.54

IN BOARD OF COMMON COUNCIL. February 4, 1890.

Passed.

JOHN F. FROST, *President.*

IN BOARD OF MAYOR AND ALDERMEN. February 4, 1890.

Passed.

D. B. VARNEY, *Mayor.*

TABULAR STATEMENT OF TAXATION BY BOARD OF ASSESSORS APRIL 1, 1890.

	Polls.		Dogs.		Real estate value.	Stock in trade.	Money on hand and notes, at interest, or on deposit.		Horses, asses, and mules, over 18 months old.	Carrriages, Value.					
	No.	Value.	Male.	Female.			Tax.	Value.			No.	Value.			
Resident.....	9,723	\$972,300.00	710	51	\$812.00	\$2,351,102.00	\$243,726.00	[1797] \$172,186.00		\$50,400.00					
Non-resident.....							*34,500.00								
Cows, oxen and other neat stock over 18 months old.	No.	Value.	Sheep over 6 months old.	No.	Value.	Stock in banks and other corporations.	Value.	Stock in public funds and bonds.	Value.	Factories and their machinery.	Value.	Total value.	Rate of tax per hundred.	Tax levied.	Total.
717	\$15,470.00	104	\$1,040.00	17	\$46.00	\$280,500.00	\$19,900.00	\$6,068,450.00	\$1.91	\$461,712.17	\$462,869.00				
								*34,500.00	1.00		345.00				
															†\$12.00

* Tax on the Manchester Building Association. See Laws of 1889, Chapter 12.
 † Special dog tax.

VALUATION AND TAXES.

The amount of taxes assessed on the polls and on the real and personal estate, within the city of Manchester, N. H., for the year 1890, was as follows, viz. :

	Valuation.	Rate per \$1,000.	Tax.
Real estate*	\$19,966,570	\$19.10	\$381,361.48
Personal property	3,234,370	19.10	61,775.57
Overlay			4.19
Manchester Building As- sociation †	34,500	10.00	345.00
	<hr/>		<hr/>
	\$23,235,440		\$443,486.24
No. of polls, 9,723	972,300	19.10	18,570.93
	<hr/>		<hr/>
Totals	\$24,207,740		\$462,057.17
Special tax on 710 male dogs		@ \$1.00	710.00
Special tax on 51 female dogs		@ 2.00	102.00
			<hr/>
Total			\$462,869.17

The share distributed to Manchester of the amount of the tax assessed, as per returns made by the corporations to state treasurer :

On railroads	\$21,443.72
On savings banks	68,392.94
On insurance companies	3,752.25
On literary fund	4,504.70
	<hr/>
Grand tax total	\$560,962.78

Appropriated and assessed in 1890 :

For city appropriation	\$441,550.00
For state tax	63,435.00

* Includes tax on factories and machinery.

† See Laws of 1889, Chapter 12.

For county tax	\$40,508.54
Overlay*	15,469.24
	\$560,962.78

For further information in relation to taxes collected by the State, see State Treasurer's Report of June 1, 1890.

TABLE OF TAXES DUE AND UNCOLLECTED.

	Due June 1, 1890, assessed in 1890.	Discounts and abate- ments, 1890.	Collected in 1890.	Due Dec. 31, 1890.
Taxes of 1883..	\$1,170.10	.....	.....	\$1,170.10
Taxes of 1884..	1,397.21	.....	.....	1,397.21
Taxes of 1885..	1,222.85	.....	\$14 72	1,208.13
Taxes of 1886..	1,278.81	.....	12.34	1,266.47
Taxes of 1887 .	1,189.44	.....	17.00	1,172.44
Taxes of 1888..	1,721.07	.....	118.55	1,602 52
Taxes of 1889..	494.45 } 13,473.15 }	\$1,915.68	10,485.64	1,566.28
Taxes of 1890..	462,869.17	12,265.37	430,805.09	19,798.71
	\$484,816.25	\$14,181.05	\$441,453.34	\$29,181.86

* This consists of \$3,125.63 assessed by the local assessors under the provisions of General Laws, Chapter 57, Section 4; and the sum of \$12,343.61 in the amount received from railroads, banks, insurance companies, and literary fund above the amount estimated by the city councils.

TAX VALUATIONS, ETC., FROM 1846 TO 1890, INCLUSIVE.

Year.	Valuation.	Taxes.	No. Polls.	Poll Tax.	Val. of Poll.
1846 . . .	\$3,187,726	\$22,005 95	1,808	\$2 10	\$300
1847 . . .	4,488,550	24,953 54	2,056	1 68	300
1848 . . .	4,664,957	39,712 53	2,688	2 58	300
1849 . . .	5,500,049	44,979 92	2,518	2 47	300
1850 . . .	5,832,080	48,974 23	2,820	2 37	300
1851 . . .	6,906,462	51,798 47	2,910	2 25	300
1852 . . .	6,795,682	54,379 45	2,745	1 92	240
1853 . . .	6,995,528	61,545 81	2,907	1 82	240
1854 . . .	8,237,617	62,022 44	2,814	1 80	240
1855 . . .	8,833,248	71,952 09	3,725	1 94	240
1856 . . .	9,244,062	114,214 88	3,760	2 96	240
1857 . . .	9,983,862	84,862 98	3,695	2 04	240
1858 . . .	10,259,080	78,210 85	3,695	1 83	240
1859 . . .	9,853,310	81,368 01	3,495	1 92	240
1860 . . .	9,644,937	86,804 87	3,651	2 16	240
1861 . . .	9,343,254	99,104 96	3,974	2 40	240
1862 . . .	8,891,250	84,827 45	3,071	2 21	240
1863 . . .	9,597,786	96,233 86	2,995	2 40	240
1864 . . .	9,517,512	142,815 98	3,168	3 50	240
1865 . . .	9,478,368	209,696 20	3,176	5 18	240
1866 . . .	10,050,020	245,567 19	4,114	5 50	240
1867 . . .	10,101,556	207,457 39	4,170	4 61	240
1868 . . .	9,929,072	208,783 07	4,583	2 85	150
1869 . . .	10,205,303	254,022 43	4,709	3 72	150
1870 . . .	10,710,252	234,047 63	4,959	3 27	150
1871 . . .	11,365,162	236,639 74	5,404	3 12	150
1872 . . .	11,542,632	259,196 67	5,911	2 24	100
1873 . . .	12,001,200	300,768 00	6,212	2 50	100
1874 . . .	12,716,892	312,835 95	6,219	2 46	100
1875 . . .	14,195,102	315,131 29	6,227	2 22	100
1876 . . .	15,309,348	248,900 93	6,295	1 62	100
1877 . . .	15,605,918	246,573 46	6,341	1 58	100
1878 . . .	15,912,234	276,873 32	6,477	1 74	100
1879 . . .	17,482,132	264,406 73	6,633	1 50	100
1880 . . .	17,735,990	263,812 17	7,219	1 48	100
1881 . . .	17,943,308	316,462 26	7,574	1 76	100
1882 . . .	19,175,408	312,673 82	7,831	1 62	100
1883 . . .	20,055,986	332,741 72	7,944	1 65	100
1884 . . .	20,613,032	361,401 61	8,143	1 75	100
1885 . . .	21,137,464	345,260 15	8,157	1 63	100
1886 . . .	21,379,384	347,009 31	8,602	1 62	100
1887 . . .	21,905,476	373,138 96	8,996	1 70	100
1888 . . .	22,162,928	432,914 45	9,344	1 95	100
1889 . . .	22,962,790	437,092 69	9,527	1 90	100
1890 . . .	24,207,740	462,869 17	9,723	1 91	100

SETTLEMENT OF THE ACCOUNT OF GEORGE E. MORRILL, COLLECTOR OF TAXES, JUNE 1, 1890.

	Amount out- standing June 1, 1888.	Amount collected.	Balance out- standing June 1, 1890.
Tax list, 1885 . . .	\$1,222.85	\$14.72	\$1,208.13
1886 . . .	1,278.81	12.34	1,266.47
1887 . . .	1,189.44	17.00	1,172.44
1888 . . .	1,721.07	118.55	1,602.52
		\$162.61	
Cr. by receipt of treasurer, No. 71 . . .		162.61	
Interest collected, 1885		\$4.76	
1886		5.69	
1887		3.53	
1888		11.86	
1889		318.60	
		\$342.44	
Cr. by receipt of treasurer		<u>342.44</u>	
	DR.		
1889. To resident list	\$435,928.71		
non-resident list	1,363.98		
voluntary taxes	494.45		
			\$437,587.14
	CR.		
1889. By cash paid city treasurer, per receipts	\$382,332.87		
cash paid county treasur- er, per receipts	40,508.54		
discounts	10,330.20		
abatements	2,849.25		
unpaid taxes June 1, 1890	1,566.28		
			\$437,587.14

CITY OF MANCHESTER TO GEORGE E. MORRILL.

DR.

To salary for the year ending June		
1, 1889	\$1,650.00	
commissions on old taxes	10.33	
	<u> </u>	\$1,660.33

CR.

By cash paid by treasurer, on ac-		
count of salary	\$800.00	
balance, by treasurer, as per bill	860.33	
	<u> </u>	<u>\$1,660.33</u>

MANCHESTER, N. H., June 20, 1890.

I hereby certify that I have examined the account of George E. Morrill, tax collector of said Manchester, and find the same correct and as above stated.

JAMES B. STRAW,
City Auditor.

TABULAR STATEMENT OF BONDED DEBT, CITY OF MANCHESTER, N. H., FROM JANUARY 1, 1890, TO DECEMBER 31, 1890.

YEAR.	Six per cent to build water-works.*	Re-funded at 4 per cent. water-works.*	Five per cent cemetery bonds.†	\$70,000 issued Oct. 31, 1863. \$50,000 issued July 1, 1864. Six per cent, to fund debts.	Issued July 1, 1881, 4 per cent, to build McGregor bridge.
1890	\$400,000	\$200,000	\$13,850	\$120,000	\$60,000

Issued April 1, 1885, 4 per cent, to fund debts.	Total.	Amount of 6 per cent bonds due and paid.	Amount of 6 per cent bonds re-funded at 4 per cent.	Total amount of bonded debt, Dec. 31.	Amount of 6 per cent water bonds on which interest has ceased, not yet presented for payment.
\$155,000	\$948,850	\$99,900*	\$100,000	\$948,850	\$100

* \$400,000, water bonds, issued January 1, 1872; \$100,000 of these bonds re-funded January 1, 1887.

* \$200,000, water bonds, issued July 1, 1874; \$100,000 of these bonds re-funded July 1, 1890.

† \$2,200, cemetery bonds, issued in 1884, and other additional bonds each year.

The city guarantees the perpetual care of lots in the cemeteries. Bonds payable July 1, 1913.

BONDED DEBT OF THE CITY OF MANCHESTER, N. H.

Date of issue.	Description.	Number.	Denomina- tion.	Amount.	Total.	INTEREST.			
						Date when the principal is payable.	per- cent.	When pay- able.	Where payable.
Jan. 1, 1872	Water Bonds.	60	\$100	\$6,000		Jan. 1, 1892	6	Semi-annual.	Treasurer's Office, Manchester, N. H.
1, 1872	"	62	500	31,000		1, 1892	6	"	"
1, 1872	"	63	1,000	63,000	\$100,000	1, 1892	6	"	"
1, 1872	"	60	100	\$6,000		1, 1897	6	"	"
1, 1872	"	62	500	31,000		1, 1897	6	"	"
1, 1872	"	63	1,000	63,000	100,000	1, 1897	6	"	"
1, 1872	"	60	100	\$6,000		1, 1902	6	"	"
1, 1872	"	62	500	31,000		1, 1902	6	"	"
1, 1872	"	63	1,000	63,000	100,000	1, 1902	6	"	"
July 1, 1890 } Re-funded }	"	100	1,000	\$100,000		July 1, 1910	4	"	Suffolk Bank, Boston, Mass.
July 1, 1874	"	50	100	\$5,000	100,000	July 1, 1895	6	"	"
1, 1874	"	50	500	25,000		1, 1895	6	"	"
1, 1874	"	70	1,000	70,000		1, 1895	6	"	"
Jan. 1, 1887 } Re-funded }	"	100	1,000	\$100,000	100,000	Jan. 1, 1907	4	"	"
Oct. 31, 1863	City Bonds.	10	100	\$1,000	100,000	Nov. 1, 1893	6	"	"
31, 1863	"	10	200	2,000		1, 1893	6	"	"
31, 1863	"	16	500	8,000		1, 1893	6	"	"
31, 1863	"	21	1,000	21,000		1, 1893	6	"	"
31, 1863	"	10	2,000	20,000		1, 1893	6	"	"
31, 1863	"	6	3,000	18,000	70,000	1, 1893	6	"	"
									Treasurer's Office, Manchester, N. H.

July 1, 1864	"	"	50	1,000	\$50,000	July 1, 1894	6	"	Treasurer's Office, Manchester, N. H.
July 1, 1881	Bridge Bonds.	"	15	100	81,500	1, 1911	4	"	"
1, 1881	"	"	39	500	19,500	1, 1911	4	"	"
1, 1881	"	"	39	1,000	39,000	1, 1911	4	"	"
April 1, 1885	City Bonds.	"	50	1,000	50,000	April 1, 1905	4	"	Suffolk Bank, Boston, Mass.
1, 1885	"	"	50	1,000	50,000	1, 1907	4	"	"
1, 1885	"	"	50	1,000	50,000	1, 1909	4	"	"
1, 1885	"	"	5	1,000	5,000	1, 1911	4	"	"
					\$335,000				

REMARKS. — The city guarantees the perpetual care of lots in the cemeteries of the city to parties who pay \$100 and upward. There are \$13,850 in cemetery bonds, so called, in the hands of the city treasurer, which are not included in the \$935,000.

Total amount of bonded debt, including cemetery bonds	\$948,850.00
Net indebtedness for water purposes	<u>600,000.00</u>
Net debt after deducting water debt	\$348,850.00
As shown in the assessors' books for the year 1890 :	
The assessed value of personal property, including poll tax	\$4,241,170.00
The assessed value of real estate	<u>19,966,570.00</u>
Total value for taxation	\$24,207,740.00
Tax rate, 1.91 per cent on a hundred (except \$34,000 taxed at 1 per cent).	
Per cent of net indebtedness (excluding debt for water purposes) to assessed valuation	1.441
Per cent of net indebtedness (including debt for water purposes) to assessed valuation	3.919
Population, census of 1890	43,983
Population, census of 1880	<u>32,458</u>
Increase of population in ten years	11,525

No issue of bonds has ever been contested.

The interest on the debt has always been promptly paid at maturity.

None of the bonds are stated specifically as being payable in gold.

None of the bonds can be called for redemption.

The power of the city to borrow money in relation to the water-works is limited to the sum of \$600,000 by section 6, chapter 70, New Hampshire Laws of 1871, entitled "An act to enable the city of Manchester to establish water-works."

STATEMENT OF THE ANNUAL INTEREST CHARGE ON THE BONDED DEBT.

Year.	*Six per cent water bonds.	*Four per cent water bonds.	Five per cent cemetery bonds.	Six per cent to fund debts.	Four per cent to build McGregor bridge.	Four per cent to fund debts.	Total of annual interest.
1890.....	\$27,000	\$6,000	\$623.75	\$7,200	\$2,400	\$6,200	\$49,423.75

SUMMARY OF CITY DEBT.

Amount of bonded debt January 1,	
1890	\$945,950.00
Amount of cemetery bonds issued in	
1890	2,900.00
Amount of water bonds re-issued	100,000.00
Accrued interest on bonded debt	21,277.50
	<u>\$1,070,127.50</u>
Water bonds paid in 1890	99,900.00
Total indebtedness, Jan. 1, 1891	\$970,227.50

AVAILABLE ASSETS.

Net cash on hand January 1, 1891	\$79,552.02
Taxes uncollected, list of 1890	19,798.71
Stock of Suncook Valley Railroad, estimated value	12,500.00
	<u>\$111,850.73</u>
Total net indebtedness	\$858,376.77

* \$400,000, water bonds, issued January 1, 1872; \$100,000 re-funded at 4 per cent, January 1, 1887.

* \$200,000, water bonds, issued July 1, 1874; \$100,000 re-funded at 4 per cent, July 1, 1890.

\$60,000, bridge bonds, issued July 1, 1881, at 4 per cent.

\$155,000, bonds issued April 1, 1885, at 4 per cent.

\$70,000, bonds to fund debts, issued October 1, 1863, and are due November 1, 1893.

\$50,000, bonds to fund debts, issued July 1, 1864, and are due July 1, 1894.

\$2,200, cemetery bonds, issued in 1884, and other additional bonds, each succeeding year. The city guarantees the perpetual care of lots in the cemeteries.

Bonds payable July 1, 1913, to the trustees of cemetery funds; not negotiable.

PUBLIC BUILDINGS OCCUPIED IN PART BY PRIVATE PARTIES,
ENGINE HOUSES.

Monthly rent.	Location.	Occupant.	No. of Rooms.	Heat furnished by	Gas furnished by	Remarks.
\$6.25	28 Vine street.	{ Charles H. Rogers, Artemus C. Barker, Amoskeag S. F. E. Co., No. 1.	5 rooms, 1 room, 2 halls.	* Family, City, City.	Family, Family, City.	Halls used for private dancing parties and other festivities.
6.25	26 Vine street.	{ Penacook Hose Co. No. 1.	2 halls.	City.	City.	Halls used for private dancing parties and other festivities.
6.25	29 Vine street.	{ Walter J. Blenis, Frank J. Dustin, S. S. Bean S. F. E. Co. No. 4.	5 rooms, 5 " "	* Family, * Family, City.	Family, Family, City.	Halls used for private parties.
6.25	18 Vine street.	{ Hook and Ladder Co. No. 1, Charles M. Denyon, Warren F. Wheeler.	2 " " 2 " " 3 " "	City, * Family, City.	City, Family, City.	Halls used for private parties.
5.00	8 Vine street.	{ Chemical Engine Co. Walter Seaward.	1 room.	City.	City.	
8.33	521 Maple street.	{ Martin W. Ford, Jr. Emil H. Smith.	7 rooms, 5 " "	Family, City, City.	Family, Family, Family.	
5.00	44 Webster street.	{ General Stark S. F. E. Co.	2 " " { 1 hall.	City.	City.	Hall used for private dancing parties and other festivities.
	Main street, W. Man.	Fire King S. F. E. Co. No. 2.	7 rooms.	City.	City.	Hall used for private dancing parties and other festivities.
	Massachusetts street.	Merrimack S. F. E. Co. No. 3.	5 " "	City.	City.	Hall used for private dancing parties and other festivities.

* One radiator in front room; heat furnished by the city for that.

CITY-HALL BUILDING.

Annual rent.	Location.	Occupant.	Hall, offices, and stores.	Heat furnished by	Gas furnished by	Remarks.
\$300.00	904 Elm street.	John J. Holland.	Store and basement.	City.	Occupant.	Druggist.
800.00	918 "	A. J. Lane.	Office.	"	"	Real-estate office, etc.
550.00	908 "	N. H. Trust Company.	Office (bank).	"	"	Banking.
700.00	914 "	Second National Bank.	Office (bank).	"	"	Rented for various purposes at \$5 per evening, but allowed to be occupied for charitable purposes free.
Uncertain.	City Hall on third story.	Sundry persons.	Hall.	"	City.	

BATTERY BUILDING.

Annual rent.	Location.	Occupant.	Rooms.	Command.	Remarks.
Free.	Manchester street.	First Light Battery.	2 rooms.	First N. H. L. Battery.	Battery occupies first and second floor and basement. Guards occupy third floor.
"	"	Emmet Guards.	1 room.	Emmet Guards.	Ward meetings are held in battery room on second floor.

REAL ESTATE OWNED BY THE CITY.

SCHOOLHOUSES.

High schoolhouse and lot	\$50,000.00
Franklin-street schoolhouse and lot	20,000.00
Spring-street schoolhouse and lot	16,000.00
Lincoln-street schoolhouse and lot	50,000.00
Ash-street schoolhouse and lot	58,000.00
Main-street schoolhouse and lot	23,000.00
Webster-street schoolhouse and lot	17,500.00
Blodget-street schoolhouse and lot	3,500.00
Bridge-street schoolhouse and lot	4,000.00
Lowell-street schoolhouse and lot	7,000.00
Merrimack-street schoolhouse and lot	15,985.00
Wilson Hill schoolhouse and lot	3,300.00
School-street schoolhouse and lot	5,000.00
South Main-street schoolhouse and lot	2,800.00
Bakersville schoolhouse and lot	15,000.00
Stark district schoolhouse and lot	3,000.00
Amoskeag schoolhouse and lot	3,700.00
Goffe's Falls schoolhouse and lot	3,600.00
Harvey District schoolhouse and lot	2,500.00
Webster's Mills schoolhouse and lot	600.00
Hallsville schoolhouse and lot	3,500.00
Youngsville schoolhouse and lot	1,400.00
Mosquito Pond schoolhouse and lot	1,200.00
Park-street schoolhouse and lot	8,500.00
Varney schoolhouse and lot	50,000.00
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	\$369,085.00

ENGINE-HOUSES.

Engine-house, stable and land, Vine-street	\$47,000.00
Main street, West Manchester	20,000.00
Cottage and lot, Lake avenue, corner of Massabesic street	19,371.00

Engine-house and lot, Webster street, corner Chestnut	\$13,000.00
Clinton-street, West Manchester	2,500.00
Hose-house, cottage and lot	5,000.00
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	\$106,871.00

OTHER PUBLIC BUILDINGS AND LOTS.

City library, building and lot	\$41,000.00
City hall, building and lot	60,000.00
City farm and permanent improvements	34,000.00
Court-house and lot	51,000.00
Battery building on Manchester street	18,000.00
Police station on Manchester street	43,300.00
City stables and city yard	36,000.00
Gravel lot, Belmont street	1,200.00
Gravel lots, ward 8	400.00
Gravel lots, Bakersville	700.00
Gravel lots, district No. 8	150.00
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	\$285,750 00

PERSONAL PROPERTY OWNED BY THE CITY.

Property in care city engineer	\$848.24
in care the chief engineer of fire dept.	91,096.00
in care superintendent highway dist. No. 2	25,000.00
in care superintendent highway dist. No. 10	666.85
in care superintendent of schools	34,287.00
in care city messenger	2,759.00
in care city marshal and janitor	1,970.25
in care superintendent of city farm	10,139.40
in care trustees of city library	27,332.90
in care superintendent of Pine Grove cemetery	248.35
in care superintendent of Valley cemetery	106.00
Stock in Suncook Valley R. R. in care city treas.	50,000.00
Personal property in care of city weigher	1,000.00

Uncollected taxes in 1889	\$1,566.28
Uncollected taxes in 1890	19,798.71
Net cash in the treasury, December 31, 1890	79,552.02
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	\$346,371.00

OTHER REAL AND PERSONAL PROPERTY OWNED BY CITY.

Soldiers' monument	\$25,000.00
Permanent inclosure of commons	10,200.00
Amoskeag bridge over Merrimack river	25,000.00
Fountains and water troughs on streets and commons	3,500.00
Two city tombs	10,000.00
McGregor bridge	90,000.00
Granite bridge	25,000.00
South Main-street bridge over Piscataquog river	10,000.00
Print-Works bridge on Granite, over lower canal	5,000.00
Two bridges in highway district No. 9	2,000.00
One bridge at Goffe's Falls	1,000.00
Expended on construction of sewers	244,470.00
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	\$451,170.00

PARKS AND CEMETERIES.

Valley cemetery, 19.7 acres	\$200,000.00
Pine Grove cemetery, about 64 acres*	40,000.00
Amoskeag cemetery, 1.05 acres	4,000.00
Stark park, 28 acres	9,000.00
Derryfield park, 76 acres	25,000.00
Concord common, 4.48 acres	200,000.00
Tremont common, 2.25 acres	40,000.00
Hanover common, 3 acres	100,000.00
Park common, 3.49 acres	60,000.00
Merrimack common, 5.89 acres	200,000.00
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	\$878,000.00

WATER-WORKS.

Real estate and personal property of Water-Works at cost price	\$958,140.09
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* 16 acres have since been purchased.

RECAPITULATION.

Real estate owned by the city, schoolhouses	\$369,085.00
Real estate owned by the city	285,750.00
Real estate owned by the city, engine-houses	106,871.00
Water-Works at cost price	958,140.09
Personal property owned by the city	346,371.00
Other real and personal property	451,170.00
Parks and cemeteries	878,000.00
	<hr/>
	\$3,395,387.09

PROPERTY ACCOUNT.

Inventory of assets December 31, 1889	\$2,373,424.00
Cemeteries and commons, December 31, 1889	845,000.00
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Total valuation	\$3,218,424.00
Inventory of assets December 31, 1890	3,395,387.00
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Gain in valuation	\$176,963.00

Inventories of personal property in the care of the superintendents, trustees, and heads of departments have been taken, resulting in the increase above stated. Some of that increase may be stated as follows: Varney school, \$43,250; new city stables, \$6,000; expended on sewers, \$39,298; Stark park, land purchased, \$8,000; Derryfield park, which was taken from the city farm, \$25,000, but the remaining land is estimated to be worth \$41,000, and the old valuation is not changed; city library, books, furniture, etc., not included in the inventory of 1889, \$27,332.90; superintendent of schools, \$26,412, the increase owing to the free-text book law, and the furnishing of many new schoolhouses since the taking of the previous inventory. The details of these inventories are on file in the auditor's office. The city-hall building, valued at \$60,000, is considered by good judges of real estate as worth on the market \$150,000; while the Water-Works would sell readily at \$1,500,000.

COMMUNICATIONS OF CITY AUDITOR TO THE
CITY COUNCILS.

To the City Councils of Manchester, N. H. :

GENTLEMEN, — Having been “appointed by the Mayor and approved by the Board of Aldermen, as a competent person to act as auditor of the city for the year following my appointment and until my successor is appointed and qualified,” and having accepted said office in accordance with the law and the ordinance relating to the same, allow me in this communication to your honorable body to tender my thanks for the honor conferred, and to express a hope that with your cordial support the duties of the auditor’s office may be performed in a satisfactory manner.

It is among the prescribed duties of the auditor that “he shall carefully examine all accounts and bills against said city and shall approve no such bill or account unless the same shall be accompanied by a certificate of the Mayor or some other city official, committee, or agent, authorized in behalf of said city to make the contract, or cause the expenditure to be made, upon which such account or bill is founded, that the same is correct; and no such bill or account shall be paid by the city treasurer until said auditor has approved it as correct.”

It is the duty of an auditor to examine all matters of law and fact which affect the question of indebtedness before him (see *Moulton vs. Parker & Young*, 35 N. H. R. 92), and make report thereon. In view of the importance of these duties and of the many persons who may be affected thereby, I deem it proper to call the attention of the City Councils, city officials, and the public to some of the legal conclusions and specific rules that may govern the future decisions of the auditor and the business methods of the office. The principle is a plain one, that the public trusts or powers devolved by law or charter on the City Councils of Manchester, N. H., to wit, all the powers of towns to be exercised by it at such times, under such restrictions and in such manner as the laws direct (*Dillon’s Municipal Corporations*,

section 96, vol. 1), cannot be delegated to others. By the General Laws, chapter 46, section 13, "no member of either branch [of the City Councils] except the Mayor shall receive any compensation for his services or shall hold *any office* or *agency* created during his continuance in office."

And by section 14, "the executive powers of the city and the administration of police, except where vested in the mayor, shall be exercised by the mayor and aldermen; and *they* shall have the powers and do and perform all the duties which the selectmen of towns have, are authorized, or required to do or perform in regard to their towns, unless it is otherwise provided by law."

Hence it follows that any new work to be done or public improvement to be made, can be commenced and carried on only upon the order of the City Councils, stating specifically the work to be done or the improvements to be made, and appropriating money for the same. It is essential for the purpose of accuracy and clearness of statement in the accounts of the city, that an account in each case with said improvements should be opened and such specific appropriation charged directly to such account, either by transfer from some annual appropriation or by loan, as the City Councils may direct. It also follows that joint standing committees possess advisory powers only; they cannot legally be endowed with executive or legislative powers by ordinance or resolution of the City Councils, as by General Laws, chapter 48, section 10, par. 14, "no by-law or ordinance shall be repugnant to the constitution or laws of the State." No member of either branch of the City Councils can enter in to any verbal or written contract to furnish supplies to, or do any work for the city. Any firm of which a member is also a member of the City Councils, is included in this prohibition. No city official, or department, or board of officials having legal power to expend money for the benefit of the city can purchase of or contract with themselves, with any one of the board, or with any firm of which one of said officials is a member.

The following, from Judge Dillon's text-book on Municipal Corporations, vol. 1, page 436, section 444, with the reported decisions of the courts as there noted, gives in apt language the

reasons for the last two statements : “ It is a well established and salutary rule in equity that he who is intrusted with the business of others cannot be allowed to make such business an object of pecuniary profit to himself. This rule does not depend on reasoning technical in its character, and is not local in its application. It is based upon principles of reason, of morality, and of public policy. It has its foundation in the very constitution of our nature, for it has been authoritatively declared that a man cannot serve two masters, and is recognized and enforced wherever a well regulated system of jurisprudence prevails. One who has power, owing to the frailty of human nature, will be too readily seized with the inclination to use the opportunity for securing his own interest at the expense of that for which he is entrusted. It has, therefore, been said that the wise policy of the law has ‘ put the sting of disability ’ into the temptation as a defensive weapon against the strength of the danger which lies in the situation. This conflict of interest is the rock, for shunning which the disability under consideration has obtained its force, by making that person who has the one part intrusted to him incapable of acting on the other side, that he may not be seduced by temptation and opportunity from the duty of his trust. The law will in no case permit persons who have undertaken a character or a charge to change or invert that character by leaving it and acting for themselves in a business in which their character binds them to act for others. The application of the rule may in some instances appear to bear hard upon individuals who had committed no moral wrong ; but it is essential to the keeping of all parties filling a fiduciary character to their duty to preserve the rule in its integrity, and to apply it to every case which justly falls within its principle. The principle generally applicable to all officers and directors of a corporation is that they cannot enter into contracts with such corporations to do any work for it, nor can they subsequently derive any benefit personally from such contract. To deny the application of the rule to municipal bodies would be to deprive it of much of its value ; for the well working of the municipal system, through which a large portion of the affairs of the country are administered, must de-

pend very much upon the freedom from abuse with which they are conducted. It is obvious that nothing can more tend to correct the tendency to abuse than to make abuses unprofitable to those who engage in them, and to have them stamped as abuses.’

Every bill against the city shall specify the particular appropriation to which the same should be charged ; and the moneys paid by virtue of the auditor’s certificate thereon should be charged to such appropriations only.

No part of any appropriation shall be applied to the purchase of or payment for any articles except such as the Mayor and Aldermen, or the Mayor, or the official or head of the department having the charge of the work for which said appropriation is made, shall deem necessary and proper to carry on the said work, and shall by written order direct to be procured and charged to such appropriation. All bills against the city requiring measurements either of dimensions, quantity, or weight, should contain a full, clear, and correct statement of such measurements. When deemed necessary, such bills will be referred to the city engineer for his measurement and sworn certificate thereto.

Extraordinary repairs involving a large expenditure of money should in all cases be submitted to the City Councils, and a special appropriation made therefor.

The following parties are authorized by law or ordinance to make expenditures, within the scope of their powers, for their respective departments :

For fire department and fire-alarm telegraph, the chief engineer, to be submitted monthly to the approval of the board of engineers ; for police department, city marshal ; for police court, police judge ; for water-works department, superintendent, subject to the rules of the board of commissioners and the ordinances relating thereto ; for city farm, superintendent ; for overseers of the poor, each overseer, subject to the rules of the board of overseers, and their monthly review and approval ; for schools, superintendent, or such person as the board of school committee may designate, bills to be approved by the board monthly ; for streets, sewers, and other work under these departments,

superintendent of each district, under control of Mayor and Board of Mayor and Aldermen; for city clerk's office, treasurer's office, tax collector's office, assessors' office, auditor's office, incidental expenditures, city physician, city messenger, city solicitor, city engineer, Mayor; for cemeteries, board of trustees (to consist of citizens not members of the City Councils); for city library, board of trustees; for health department, the board of health, subject to approval of mayor. It may be stated as a general rule that all subordinate officials are under the supervision and control of the Mayor, subject to such limitations and restrictions as the Board of Aldermen, acting as a board, may require.

In every bill presented to the city auditor for consideration, the following points will be considered and passed upon, and in all questions involving doubt the opinion of the city solicitor will be requested:

1. Is the subject-matter of the bill under examination within the scope of the powers conferred by the legislature on the city government?

2. Is the bill certified by the party legally authorized to make the contract or cause the expenditure to be made?

3. Has an appropriation been made to meet the expenditure, and is there a balance unexpended sufficient to pay this bill?

4. Are the number of articles in the bill, or the measurements, either of dimensions, quantities, or weights, correctly and fully stated, and is the proof of the delivery to the city of the whole amount charged sufficient?

5. Is the price charged a fair market price, or is it so largely in excess as to require the attention of the City Councils to be called to the same?

6. Is the bill written in a fair, legible hand, correctly cast, and on paper of sufficient length and width to admit of its proper backing and filing?

7. If the bill is in part payment of a contract, the date and the total amount of the contract, the amount already paid, the amount of the work not yet completed, and the per cent retained, (if any) must be stated on the bill.

8. Any other inquiries in matters of law and fact which affect the question of indebtedness before the auditor.

9. Approval, rejection, or suspension for further information, or correction, as the circumstances in each case may require.

The following bills presented to the city auditor January 24, 1890, have been rejected on the ground that "the sting of disability" is present in them all.

In consideration that the common law of agency has not heretofore been strictly applied by any of the City Councils that have existed since the organization of the city government in 1846, and that the parties to these contracts have parted with their property at fair prices, and for the benefit of the city, I would advise that these contracts and any other contracts made prior to February 1, 1890, be ratified by a vote of the City Councils (if they have the power), and the auditor be instructed to pass the same. (Here follows a list of bills, amounting in the aggregate to \$547.28, due sundry persons who were members of the City Councils, overseers of the poor, etc.)

Respectfully submitted,

JAMES B. STRAW, *City Auditor.*

February 4, 1890.

To the City Councils of the City of Manchester :

GENTLEMEN, — The city auditor has before him for consideration a bill against the city of Manchester, of which the following is a copy :

The City of Manchester, N. H., to Joint Standing Committee on Fire Department, Dr.

To expenses of joint standing committee on fire department to Lawrence, Haverhill, Worcester, and Boston, in the interest of the aerial truck and combination wagon :

Fares	\$21.72
Hotel and meals	16.05
Total	<u>\$37.77</u>

This bill is approved by the Mayor and the chairman of the joint standing committee on fire department. The auditor is informed that this bill includes the expenses of six persons, the committee (five), and the chief engineer of the fire department (one). The auditor infers that the gentlemen who contracted this expenditure believed themselves authorized to do so by the order that passed the Common Council April 1, 1890, and was approved by the Board of Aldermen May 6, 1890, "To purchase a combination hose wagon for use in West Manchester," and that the expenditure was necessary for the proper performance of the duty devolved upon them by the order of May 6, 1890. All orders passed by the City Councils authorizing a ministerial act to be performed by its agent or agents must be strictly construed, and the act to be done must be specifically stated. It is a matter of doubt in the mind of the auditor whether or not the appointment of any member, or any number of members of the City Councils on a committee authorized to perform executive or ministerial acts can be made without a violation of section 13, chapter 46 of the General Laws of New Hampshire. The Mayor is the chief executive officer of the city, and the chief engineer of the fire department is his subordinate officer. They are both paid officials, appointed for the express purpose of doing just such executive business as was enjoined on this committee, and their executive responsibilities should not be rendered nugatory by being dissipated over a large number of persons. If it was necessary for the committee appointed by the resolution of May 6 to visit four cities in our sister state of Massachusetts, in order to "purchase a combination hose wagon," and to take with them the chief engineer of the fire department, some words should have been used in the resolution giving specific authority for such an excursion, and providing for the payment of the expenses by the city. It will be judicious and save the auditor much inconvenience if such expenditures are in all future cases first submitted to the action of the City Councils before they are incurred by the committee.

This bill cannot be certified as "correct" by the auditor

until it has been ratified and confirmed by vote of the City Councils. Respectfully submitted,

JAMES B. STRAW, *City Auditor.*

June 3, 1890.

To the City Councils of Manchester, N. H. :

GENTLEMEN,—The auditor herewith submits for your consideration the bill of ———— against the city of Manchester, for three perfection nozzles and holders, Nos. 509, 510, 511, at \$35, \$105, “purchased by order of the joint standing committee on fire department.” I am not aware of any order passed by the City Councils authorizing the purchase of the nozzles and holders above described.

The board of engineers have the authority of firewards, and by chapter 106, section 11, “the chief fireward shall keep, or cause to be kept, in order all apparatus provided by such town for the extinguishment of fires.” They have no power conferred upon them by law or ordinance to purchase new apparatus of any kind. The joint standing committee on fire department have advisory powers only. This bill cannot be certified as “correct” by the city auditor without ratification by the City Councils. It will save the auditor, and all other parties, much trouble and inconvenience, if the authority to purchase new apparatus is obtained of the City Councils, before the contract is made.

Respectfully submitted,

JAMES B. STRAW, *City Auditor.*

MANCHESTER, N. H., July 1, 1890.

To the City Councils of Manchester, N. H. :

GENTLEMEN,—The city auditor has rejected the following bills against the city :

—————, foreman	\$28.75
—————, hoseman	50.00

———— ———, assistant foreman	\$55.00
———— ———, hoseman	25.00

The above named parties at the time these bills were contracted were members of the City Councils, and the first three named are still acting as such. When these parties accepted and were qualified as aldermen and members of the Common Council and acted and continued to act as such, they were legally disqualified from holding any office or agency created during their term of service, or any office of profit. (See General Laws of New Hampshire, chapter 46, section 13, and chapter 48, section 2.)

“It is a well established and salutary rule in equity, that he who is intrusted with the business of others cannot be allowed to make such business an object of pecuniary profit to himself.” See Dillon’s *Municipal Corporations*, vol. 1, p. 436, sect. 444. “This rule does not depend on reasoning technical in its character, and is not local in its application. It is based upon principles of reason, of morality, and of public policy. It has its foundation in the very constitution of our nature, for it has been authoritatively declared that a man cannot serve two masters, and is recognized and enforced wherever a well regulated system of jurisprudence prevails.” These claims founded upon transactions prohibited by law are illegal and void in their inception and cannot be made valid by ratification of the City Councils.

Respectfully submitted,

JAMES B. STRAW, *City Auditor*.

MANCHESTER, N. H., July 1, 1890.

To the City Councils of Manchester, N. H. :

GENTLEMEN, — Your attention is herewith called to the fact that the following appropriations are overdrawn to the respective amounts placed against each :

Printing and stationery	\$654.09
Sewers and drains	2,456.04
Fire-alarm telegraph	293.85
City teams	477.61

Fuel, school department	\$241.65
Printing and advertising, school department	22.03
Contingent expenses, school department	106.42

Chapter 48, section 6, of the General Laws of New Hampshire says: "The city councils shall take proper care that no money be paid from the city treasury, unless previously granted and appropriated." Section 4, chapter 3 of the City Ordinances, says: "Whenever any appropriation shall be expended, the city clerk shall immediately give notice thereof to the mayor, to the city councils, and to the committee on accounts, which committee shall pass or allow no claim or account chargeable to any head or appropriation which is expended, until the city councils shall have provided the means of paying the same." Section 4 of the ordinance relating to the duties of the city auditor, approved January 7, 1890, says: "In case there are bills or accounts which said auditor shall not approve, he shall present them to said committee on accounts, with his reasons for refusing to approve the same. Said committee on accounts shall not certify any such bill or account which has not been approved by the auditor, and no such bill or account shall be paid by the city treasurer until said auditor has approved it as correct, in addition to the other indorsements heretofore required."

After a full and careful consideration of the requirements of the Laws and Ordinances, as above stated, the city auditor has arrived at the conclusion that duty requires him to withhold his signature in future from all bills against any appropriation where the amount of the appropriation is expended.

Respectfully submitted,

JAMES B. STRAW, *City Auditor.*

Manchester, N. H., September 2, 1890.

To the City Councils of Manchester, N. H. :

GENTLEMEN, — The following bills have been presented to the city auditor, approved by the chief engineer of the fire department, and indorsed "Firemen's Annual Parade."

To dinner for 413 at 65c. each	\$277.45
Cash paid for postage, on account firemen's annual parade	3.50
Services of band at firemen's annual parade	52.00
Printing 300 invitations, two lots	3.25
300 envelopes . . . . .	.90
175 circulars to firemen	2.75
150 cards	1.00
500 programs, line of march	3.00
	<hr/>
Making in all the sum of	\$343.85

In 1871 the City Councils made for the first time an annual appropriation of \$300 for firemen's annual parade, and since then have made each year, up to and including the year 1889, a like amount for the same purpose. In the present year the appropriation is \$500. The total amount paid by the city for the last nine years is \$2,779.68.

The city auditor is unable to find the slightest legal basis on which an appropriation, covering such expenditures as are presented in the foregoing bills, can be made. Chapter 106 of the General Laws of New Hampshire relating to the powers and duties of the firewards, contains no provisions that by the most liberal construction can be made to sanction such expenditures. In *Gove vs. Epping*, 41 N. H. 539, Doe, judge, says: "The power of towns to raise and appropriate money is derived solely from statutory provisions, which restrict the power to certain specified objects and other necessary charges."

"Votes to raise or pay money for purposes other than those prescribed by statute are void, and towns cannot be compelled, and generally will not be permitted, to carry such votes into effect." It is not left to the unrestricted and irresponsible discretion of towns to vote gifts or to select donees; their charity is a duty defined, commanded, enforced, and regulated, and the objects of it are designated by law. A majority cannot dispose of the property of a minority in an unlimited manner." The expenditures represented by these bills are not necessary for the extinguishment of fires, for the care or repair or protection of the property

of the city. The feeding of a multitude on special invitation can not be regarded as essential to the discipline of the firemen. The City Councils cannot ratify and thereby make legal that which is illegal in its inception.

Respectfully submitted,

JAMES B. STRAW, *City Auditor.*

Manchester, N. H., October 31, 1890.

To the City Councils of Manchester, N. H.:

GENTLEMEN, — The following appropriations are overdrawn to the amount placed against each. (Here follow sundry appropriations with the amount overdrawn placed against each.)

The necessity for a transfer to each appropriation to balance the overdraft, need not be dwelt upon. If further expenditures are to be made on sewers and drains, an amount sufficient to cover those expenditures should be transferred. The power possessed by the City Councils to limit the expenditures of the city government in all of its departments lies chiefly in its right to give or to withhold supplies. This power is conferred upon it by the State and cannot be legally delegated to any other person or persons. (Gillis vs. Bailey, 21 R. 149). Section 12, chapter 30 of the ordinance of the city relating to water-works, says: "All money received on account of water-works shall be paid weekly, or oftener, into the city treasury, and a receipt taken for the same; and all moneys paid into the treasury on account of said works shall be placed to the credit of the water-works, and shall not be paid out except under the provisions of section 6." "All bills for expenditures for the water-works shall be approved by the board of water commissioners or by some person by them designated, examined by the city auditor, and allowed by the committee on accounts, before they are paid by the treasurer." "Section 8. The board of water commissioners shall have no power to expend any money, or to incur any debt, or commence any work that shall require any money beyond the amount of appropriations made by the city councils." The board of water

commissioners have in the past acted upon the presumption that section 12 was an appropriation made by the City Councils, and have expended large sums of money for the extension and repairs of the water-works without obtaining from the City Councils any further specific authority. In fact, the board has acted as an independent body, not bound like the school committee, the engineers of the fire department, the superintendent of streets, and other subordinate officials, by specific appropriations made for certain specific well-defined purposes, but has had, and now has, the entire receipts of the water-works at its disposal. These receipts now amount annually to a sum exceeding \$80,000, and are yearly increasing. The city auditor is of the opinion that section 12 is not a legal appropriation, and that the City Councils have no power to delegate to others discretionary powers conferred upon them by the Legislature. The auditor submits for your consideration an ordinance in amendment of said section 12, which, if passed by your honorable body, will remove all legal doubts herein raised, and place the board of water commissioners in their proper legal relations with the City Councils.

Respectfully submitted,

JAMES B. STRAW, *City Auditor.*

Manchester, N. H., October 7, 1890.

To the City Councils of Manchester, N. H. :

GENTLEMEN, — In the bills of the Manchester Water-Works for the month of December, 1890, presented to the city auditor for his approval are the following :

(Here follows a list of bills for attendance upon meetings of board of water commissioners, amounting in all to the sum of \$609.)

The auditor is unable to find any legal foundation for these charges and is therefore compelled to withhold his approval. Section 3, chapter 30 of the ordinance relating to water-works, provides that “ the board of water commissioners shall have power to appoint a superintendent and all subordinate agents and

assistants, and may fix their compensation." On the subject of the compensation of the water commissioners the laws and ordinances are silent. The auditor finds no record in the printed city reports of any compensation being paid to a water commissioner prior to 1880.

Respectfully submitted,

JAMES B. STRAW, *City Auditor.*

RE-FUNDING OF WATER BONDS.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION in regard to water bonds.

Resolved by the Mayor, Aldermen, and Common Council of the city of Manchester, in City Council assembled, as follows:

That for the purpose of re-funding the water bonds, due July 1, 1890, the Mayor and the joint standing committee on finance be and are hereby authorized and empowered to issue water bonds to the amount of one hundred thousand dollars (\$100,000), payable July 1, 1910, and bearing interest at a rate not exceeding four per cent, and the Mayor and city treasurer are hereby authorized to sign said bonds for and in behalf of the city.

[Passed April 1, 1890.]

LETTER TO N. W. HARRIS & CO.

MANCHESTER, N. H., June 19, 1890.

N. W. Harris & Co., Boston, Mass. :

GENTLEMEN, — Your bid of \$105,670 for \$100,000 Manchester bonds, as per circular sent you, is accepted. We will furnish you any satisfactory papers such as you may require, or if you wish to

send a man here to investigate matters, we shall be happy to furnish him with all the necessary information.

I am, yours respectfully,

D. B. VARNEY, *Mayor*.

Per J. B. S.

BIDS FOR WATER BONDS.

List of bids for \$100,000 water bonds re-issued July 1, 1890, city of Manchester, N. H. Bids made June 18, 1890.

N. W. Harris & Co., Boston, Mass., bid \$105,670.

R. L. Day & Co., of Boston, Mass., bid \$105,176.

N. H. Trust Co., Manchester, N. H., bid \$103,000.

Amoskeag National Bank, Manchester, N. H., bid \$104,390.

Adams, Blodgett & Co., Boston, Mass., bid \$103,125.

At a meeting of the finance committee of the city of Manchester, a quorum being present, the bids were opened for the one hundred thousand dollars four per cent twenty-year water-works bonds, and said bonds were awarded to N. W. Harris & Co., of Boston, for one hundred five thousand six hundred and seventy dollars (\$105,670), and same is hereby confirmed.

GEORGE C. CHASE,

D. B. VARNEY,

W. B. STEARNS,

E. S. HEATH,

Finance Committee of City of Manchester, N. H.

FROM THE GENERAL LAWS OF NEW HAMPSHIRE.

CHAPTER 37.

SECTION 16. Any town may fund its debt, by vote of any legal meeting, and any such indebtedness may include the bounty of the general government to volunteers, conscripts, or substitutes which such town has assumed and paid for the purpose of filling its quota. And any town that may have funded its debt, or any

part thereof, may at any legal meeting ratify and confirm the same, and may issue bonds payable at such time and place as they may by vote authorize, with coupons for interest, payable annually or semi-annually, in gold or other lawful currency, at a rate not exceeding 6 per cent.

CHAPTER 44.

SECTION 1. All cities now or hereafter incorporated, shall have, exercise, and enjoy all the rights, immunities, and privileges, and shall be subject to all the duties incumbent upon or appertaining to the town corporations to which they succeed.

CHAPTER 48.

SECTION 1. All the powers vested by law in towns, or in the inhabitants thereof, shall be exercised by the city councils by concurrent vote, each board having a negative upon the other.

CHAPTER 70.

AN ACT to enable the city of Manchester to establish water-works.

SECTION 6. Said city is authorized to levy taxes to defray the expense of such water-works, and to borrow money therefor, not exceeding in the whole the sum of six hundred thousand dollars, and to issue the notes, bonds, or obligations of said city therefor, payable at such time and at such rate of interest as the city councils of said city shall determine; and such notes, bonds, and obligations shall be legal and binding on said city. — *Laws of 1871.*

WATER BILLS AGAINST THE CITY FOR THE YEAR 1890.

HYDRANTS.

January	\$4,390.00
April	4,390.00
July	4,550.00
October	4,550.00
	<hr/> \$17,880.00

ANNUAL CITY WATER BILL.

625

FIRE DEPARTMENT.

January	\$274.63	
April	255.73	
July	292.78	
October	208.93	
	<u> </u>	\$1,032.07

POLICE DEPARTMENT.

January	\$53.10	
April	91.95	
July	93.45	
October	53.40	
	<u> </u>	\$291.90

SCHOOL DEPARTMENT.

January	\$123.45	
April	150.30	
July	118.05	
October	68.55	
	<u> </u>	\$460.35

WATER TROUGHS.

January	\$265.50	
April	265.50	
July	265.50	
October	265.50	
	<u> </u>	\$1,062.00

SPRINKLING.

January	\$680.00	
April	680.00	
July	720.00	
October	720.00	
	<u> </u>	\$2,780.00

CITY HALL.

January	\$167.85	
April	156.00	
July	156.00	
October	171.60	
	<u> </u>	\$652.05

STONE CRUSHER.

January	\$7.50	
April	7.50	
July	7.50	
October	7.50	
	<hr/>	\$30.00
City library, annual bill, April		16.00
Pine Grove cemetery, annual bill, October		300.00
Valley cemetery, annual bill, October		35.55
Amoskeag cemetery, annual bill, October		12.00
Fountains, cemetery, annual bill, October		300.00
		<hr/>
		\$24,851.92

ORDINANCES AND RESOLUTIONS

PASSED IN 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

AN ORDINANCE in amendment of Chapter 14, Section 27, of the
Laws and Ordinances.

That chapter 14, section 27, of the Laws and Ordinances, be amended by inserting after the word "payments" in the third line thereof the words, "The superintendent of highways in district number ten shall receive two dollars and fifty cents per day, payable monthly," so that said chapter shall read as follows: "The superintendent of highways in district number two shall receive twelve hundred dollars per annum, to be paid in equal monthly payments, the superintendent of highways in district number ten shall receive two dollars and fifty cents per day, payable monthly, and in each of the other districts two dollars per day for each day actually employed, payable monthly."

Passed to be ordained May 6, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

AN ORDINANCE to amend Section 6, Chapter 14 of the Ordinances of the City of Manchester, in relation to the duties and compensation of City Officers.

SECTION 1. Section 6 of chapter 14 of the Ordinances of the City of Manchester is hereby amended by striking out the word "five" and inserting instead thereof the word "eight," so that said section as amended shall read as follows: "Section 6. The city solicitor shall receive in full for his services as city solicitor and for all the duties appertaining to said office the sum of eight hundred dollars per annum, to be paid in equal quarterly payments."

SECT. 2. This ordinance shall take effect upon its passage.

Passed to be ordained June 3, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

AN ORDINANCE establishing a Scavenger Service.

SECTION 1. The scavenger service of the city shall be under the general control of the mayor and aldermen, and shall be performed by the superintendents of highways in their respective districts, or such other persons as said board shall from time to time contract with for that service.

SECT. 2. Each superintendent or contractor shall cause all the compactly built portion of his district to be regularly and frequently visited by suitable men and vehicles for the removal of all rubbish, waste, and noxious or unsightly matter found in any street, lane, or public place, and the removal of all such matters and things which may for that purpose be placed upon, or convenient to, any street or lane, in the manner and at the time hereinafter specified. He shall carry them to such location distant from the compact part of the city as the mayor and aldermen may designate, and shall there make such disposition of them by burning, burying, or otherwise, as said board may direct.

SECT. 3. Ashes, earth, brick, and lime, rubbish and other innocuous and imperishable waste, shall be collected separately from perishable waste, and when so collected may be used for filling new streets or low ground.

SECT. 4. Every person owning, occupying, or having the care of any building, premises, or business located in the compact part of the city in which any perishable or burnable waste, whether of vegetable or animal origin, is produced, shall provide and keep a suitable vessel in which all such waste shall be deposited; and no water, earth, ashes, stones, or brick shall be mingled therewith. All ashes and other imperishable waste which may properly be removed by the scavenger department shall be placed in a separate receptacle, and no perishable or burnable waste shall be deposited therewith. Each of said receptacles, with its contents, shall be set out upon the back street, or upon the edge of the sidewalk, in the morning of the day on which the scavenger teams are to pass through the street for the removal of that kind of waste.

SECT. 5. Any person violating any provisions of the preceding sections shall be punishable by a fine not exceeding ten dollars.

Passed to be ordained June 3, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

AN ORDINANCE relating to throwing paper and other rubbish into public streets and commons.

SECTION 1. No person shall, in any public street or common in the city of Manchester, distribute to other persons there being or passing, any handbills, cards, or papers, and no person shall sweep into, throw, place, or drop in any public street or common any cards, paper, or any offensive or noxious or refuse liquid or solid matter or substance. But this section shall not be construed to prohibit the selling of newspapers upon the public streets or commons.

SECT. 2. Whoever violates any of the provisions of the foregoing section shall be punished by a fine not exceeding ten dollars.

Passed to be ordained July 1, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

AN ORDINANCE in relation to the pay of Overseers of the Poor.

Section 18 of chapter 14 of the Ordinances of the city of Manchester is hereby amended by striking out the words "to be paid at the expiration of their term of office" and by inserting instead thereof the words "per annum," so that said section as amended shall read: "Section 18. The overseers of the poor shall receive in full for their services the sum of twenty-five dollars each per annum." And this ordinance shall take effect upon its passage.

Passed to be ordained August 5, 1890.

 CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

AN ORDINANCE in relation to the duties of the Assistant City Marshal.

It shall be the duty of the assistant city marshal, in addition to the duties now by law and ordinance upon him imposed, to investigate all cases of claims against the city, to ascertain the circumstances of all accidents happening, and all other matters of a similar nature, when so directed by the mayor, and make report to the mayor of his investigations in every case, for which service no additional compensation, beyond the salary now fixed by ordinance, shall be paid.

Passed to be ordained September 2, 1890.

 CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

AN ORDINANCE changing the name of a street.

That the street on the east side of the Merrimack river, known as the "River road," shall be called and known as Brown ave-

nue, commencing at junction of River road south, so called, and Elm street, thence southwesterly to Goffe's Falls, and now known as River road south.

Passed to be ordained December 2, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

AN ORDINANCE in amendment of Section 12, Chapter 30, of the Ordinances of the city, relating to Water-Works.

That section 12, chapter 30 of the Ordinances of the city, relating to water-works, be amended so as to read as follows: "Sect. 12. All moneys received on account of the water-works shall be paid weekly, or oftener, into the city treasury, and a receipt taken for the same, and shall be subject to appropriation by the city councils for any legal municipal expenditure. The board of water commissioners is hereby required to submit to the finance committee each year, on or before the third Tuesday in November, their estimate of the receipts of the water-works for the ensuing municipal year, the amount required for current expenses, ordinary repairs, interest on water bonds, and the annual construction expenses. They shall also make in detail all such further statement of matters relating to the extension or improvements of the water-works, which may, if voted by the city councils, require an appropriation for the construction account larger than the ordinary annual construction expenses. All expenditures shall be charged to the appropriation to which they properly belong, and no transfers shall be made from one appropriation to another without a vote of the city councils authorizing the same. This amendment shall take effect November 1, 1890.

Passed to be ordained January 2, 1891.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-ONE.

AN ORDINANCE relating to repeal of Section 10 of Chapter 28 of the City Ordinances.

That section 10 of chapter 28 of the City Ordinances, relating to discount on taxes, be and is hereby repealed.

This act shall take effect on its passage.

Passed to be ordained March 3, 1891.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-ONE.

AN ORDINANCE in amendment of Section 22, Chapter 30 of the Ordinances, relating to Water-Works.

That section 22, chapter 30 of the City Ordinances, be amended so as to read as follows: "Section 22. The sum of (\$5,000) five thousand dollars annually shall be paid by the city for water for fire and other purposes, and shall be charged to hydrant service and credited to water-works receipts."

No other charge shall be made against the city for use of water. This amendment shall take effect from January 1, 1891.

Passed to be ordained March 3, 1891.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION relative to Temporary Loan.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That for the purpose of paying such claims against the city as may fall due before the 1st day of July, 1890, the mayor be

authorized to make a temporary loan, for the use of the city, of a sum not exceeding one hundred thousand dollars, giving for the same the notes of the city, signed by the mayor and countersigned by the city treasurer, said notes to be paid before the 12th day of July, 1890.

Passed February 4, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION relative to discontinuance of a portion of Hooksett road, so called.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That so much of the old Hooksett road, so called, as lies between the intersection of Pennacook street with said road on the south, and its intersection with Webster street on the north, be discontinued, and that the mayor, in the name of the city, be authorized to apply to the court for its approval and discontinuance.

Passed February 4, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION relating to City Auditor's Report of February 4, 1890.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

Resolved, that the contracts or bills mentioned in the city auditor's report of February 4, 1890, in consideration of the rea-

sons therein suggested, be and hereby are ratified and confirmed, and that the city auditor is requested to certify the same to the city treasurer for payment.

Passed February 12, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION relative to Derryfield Park.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That the land at city farm lately set apart for a public park by the city government, be known as Derryfield Park.

Passed February 12, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION relating to a Reward for the conviction of parties setting fires.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That a reward of fifty dollars be and the same hereby is offered for the detection and conviction of any person or persons who maliciously or through criminal carelessness shall set fires in any forest, wood lot, sprout lot, pasture, field, or any other place within the limits of the city of Manchester, said reward to be paid to any person who shall furnish the evidence which shall lead to such detection and conviction, upon proof satisfactory to his honor the mayor, that his evidence led to the conviction of any offender by the court : the expense authorized by this re-

solution to be charged to the appropriation for incidental expenses, and the city marshal is hereby intrusted to see that the rewards hereby authorized are properly posted or otherwise advertised.

Passed March 4, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION relative to the Kimball Carriage Company.

Resolved by the Mayor, Aldermen, and Common Council of City of Manchester, in City Council assembled, as follows :

WHEREAS, "The Kimball Carriage Company," a corporation duly established by law with a capital of thirty thousand dollars, desire to locate their factory and carry on their business in the city of Manchester, providing sufficient inducements are given them by the city government ; therefore,

Resolved, that if the said Kimball Carriage Company will locate and establish their business in this city, that the factory and real estate on which the same is located, and the machinery therein and other property necessary in conducting said business, shall be exempt from all taxation for a period of ten years from April 1, 1890.

Passed April 1, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION relative to Water Bonds.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That for the purpose of re-funding the water bonds due July 1, 1890, the mayor and the joint standing committee on finance

be and are hereby authorized and empowered to issue water bonds to the amount of one hundred thousand dollars (\$100,000), payable July 1, 1910, and bearing interest at a rate not exceeding four per cent, and the mayor and city treasurer are hereby authorized to sign said bonds for and in behalf of the city.

Passed April 1, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION relating to the purchase of the Stark land for the purposes of a Public Park.

Resolved by the Mayor, Aldermen, and Common Cotncil of the City of Manchester, in City Council assembled, as follows :

That the proposition to purchase the Stark land, consisting of about 27 acres, on which it is proposed, in the bill now pending before the Congress of the United States, to erect an equestrian statue in memory and in honor of that Revolutionary hero, Major General John Stark, and to convert the same, under certain restrictions, to the purposes of a public park for the city of Manchester, meets with the hearty concurrence of this council.

Resolved, that the Selectmen in the several wards of the city are hereby required to insert an article in their respective warrants at the next annual meeting, to take the sense of the legal voters as to their approval or disapproval of the foregoing proposition to purchase said land for the purposes stated, as required in section 4, chapter 49 of the Laws of the State of New Hampshire, and that the mayor and city solicitor be appointed a committee to see to the proper carrying out of this matter.

Passed May 2, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION relative to the death of ex-Mayor John Hosley.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That the members of the city councils have learned with profound regret of the recent death of Hon. John Hosley, three times the mayor of this city and for many years connected with its government in other capacities ; and they desire to express their sense of the great loss which this city has sustained in the death of one who ever had its interests at heart, whose pride in the progress of Manchester was the strongest, and whose influence was always given to the advancement of its best welfare. He was a man of most rugged honesty, of great cheerfulness and courtesy, of unusual executive ability, and in the administration of the city's affairs was impartial, able, and successful. When holding public station he was devoted to his duty to the public ; when in private life he was a good citizen ; and at all times he was an upright and conscientious man.

Resolved, that the members of the city councils extend their heartfelt sympathy to his bereaved family ; that these resolutions be spread upon the records, and the city clerk instructed to transmit a copy to the family of the deceased.

IN JOINT CONVENTION OF THE CITY COUNCILS. May 6, 1890.

Passed unanimously.

D. B. VARNEY, *Mayor*.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION providing for an Appropriation for the Contingent Expenses of the Mayor's Office.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That the sum of three hundred dollars be and the same is hereby transferred from the appropriation for incidental expenses, to

be held as a special appropriation for the contingent expenses of the mayor's office; and the city clerk is instructed to open an account for such appropriation, and his honor the mayor is hereby authorized to draw from such account for the necessary contingent expenses of the mayor's office, and his approval of such bills shall constitute a sufficient certificate thereof.

This resolution shall take effect upon its passage.

Passed June 3, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION providing for two beds at the Elliot Hospital.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the sum of six hundred dollars be paid to the trustees of the Elliot Hospital for the support of two beds in said hospital for the term of one year after such payment, for the use of such persons as may be sent to it by the direction of his honor the mayor; and the sum of six hundred dollars is hereby transferred from the reserved fund and made a special appropriation for the foregoing purpose.

Passed June 3, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION authorizing the Mayor to sell a Lot of Land on Maple street at public auction, and sign deed of the same to purchaser in behalf of the city.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the mayor is hereby authorized to sell at public auction, to the highest bidder, a lot of land now owned by the city, and

situated in Manchester, N. H., bounded and described as follows : Beginning at a point on the east line of Maple street, and one hundred feet north of the north line of Brook street, thence northerly by east line of Maple street fifty (50) feet, thence at right angles to Maple street easterly one hundred (100) feet, thence southerly, parallel to Maple street, fifty (50) feet, thence westerly, at right angles to Maple street, one hundred (100) feet to the place of beginning, and containing five thousand (5,000) square feet ; said premises being the same conveyed to the city by Horace P. Simpson and Mary B. Simpson, by their deed dated the eleventh (11th) day of November, 1885 ; and the Mayor is further hereby authorized to sign the deed of the same, in behalf of the city, to the purchaser thereof.

Passed July 1, 1890..

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION relating to purchase of horses for use at City Farm.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That the mayor and joint standing committee on city farm be and are hereby authorized to purchase a pair of horses for use at said city farm.

Passed July 1, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION relating to New City Stables.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That the mayor and joint standing committee on lands and buildings be and hereby are duly authorized to receive proposals

and make contracts for the building of new city stables on the lot of land now owned and occupied by the city on Franklin street, according to the plans and specifications reported by said committee, said contract to be subject to the subsequent ratification or rejection of the city councils. The sum of six thousand dollars is hereby transferred from the reserved fund to the account of "New City Stables," and the expenditure in relation thereto is not to exceed the amount appropriated by this resolution.

Passed July 1, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION relating to contract for new City Stables.

That the proposal of Mead, Mason & Co. is hereby accepted and the contract with said firm ratified and confirmed, and the mayor and joint standing committee on lands and buildings are hereby authorized to sign all necessary papers for the completion of said contract in behalf of the city.

Passed to be ordained July 22, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION authorizing the Mayor to sell a lot at the corner of West and Douglas streets at public auction, and sign the deed of the same to the purchaser, in behalf of the city.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the mayor is hereby authorized to sell at public auction, to the highest bidder, a lot of land now owned by the city and situate in Manchester, N. H., and bounded as follows: Beginning at a stake standing forty feet north $79 \frac{3}{4}$ degrees west from the southwest corner of a piece of land sold by Peter O.

Woodman to Ruel Fellows ; thence north $79\frac{3}{4}$ degrees west fifty feet to a stake ; thence north nine degrees east about one hundred and ten feet, to a line formerly dividing Goffstown and Bedford ; thence east by said dividing line about fifty feet to the line of West street ; thence southerly by the line of West street to the bound first mentioned. The mayor is further hereby authorized to sign the deed of the same, in behalf of the city, to the purchaser thereof.

Passed August 5, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION relating to sale of land on east side of Ash street.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That the mayor be and hereby is authorized to sell at public auction, and to the highest bidder, the following bounded and described piece of land situated in said Manchester : Beginning at the intersection of the south line of Lowell street and the east line of Ash street, and thence in an easterly direction on the line of Lowell street (5.22) five and twenty-two hundredths feet to a stone bound, there making an angle of 90 degrees 37 minutes to the south (23.55) twenty-three and fifty-five one-hundredths feet to a stone bound ; thence southeasterly, making an angle of 239 degrees 23 minutes, thirty and eleven one hundredths feet, to land now or formerly owned by John Davis, Jr. ; thence southwesterly, by an angle of 88 degrees 15 minutes, thirty and ninety-four one-hundredths feet ; thence southeasterly, by an angle of 272 degrees 32 minutes, thirty-two and seven tenths feet to land now or formerly owned by J. C. Hoyt ; thence southwesterly, by an angle of 85 degrees 42 minutes, about eighty feet, to east line of Ash street ; thence northerly by east line of Ash street (147.6) one hundred forty-seven and six tenths feet, to point first mentioned ; said land containing about twenty-eight

hundred seventy-five and one half square feet, reference being made to plan No. 472 in city engineer's office. The mayor is further authorized, in behalf of the city, to sign a conveyance to the purchaser.

Passed August 5, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION to exempt West Side Company from taxation.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

THAT WHEREAS, the West Side Company, for the purpose of establishing a new industry in the city of Manchester, propose to erect a factory in which to carry on the business of manufacturing shoes and other articles, on a tract of land situate in West Manchester, bounded westerly by an extension of Second street, southerly by West Hancock street, easterly by the land of the New Hampshire Improvement Company, and northerly by the Piscataquog river, containing about 38,000 square feet ; therefore,

Resolved, that said land, the buildings erected thereon by the West Side Company, and the machinery therein, and the capital and property of the parties who are to occupy said land and buildings and to carry on the manufacturing business therein, shall be exempt from taxation for the term of ten years from the first day of January, 1891 ; providing the amount invested in said buildings, machinery, capital, and property shall not be less than twenty-eight thousand dollars.

Passed to be enrolled September 16, 1890.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY.

RESOLUTION relating to Manchester & North Weare Railroad.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That we heartily sanction the effort to be made before the Legislature of 1891 to bring about the re-laying of the rails on the Manchester & North Weare Railroad, so called, between the present terminus of the railroad in Weare to the village in Henniker, and believe that the realization of this would redound greatly to the benefit of our city. This being the fact, we respectfully ask of our senators and representatives elect the consecration of their best efforts to bring about the accomplishment of this important measure.

Passed December 2, 1890.

CITY OF MANCHESTER.

AN ORDER relating to the purchase of land for a Public Park.

Ordered, if the board of mayor and aldermen concur, that the mayor be and hereby is authorized to purchase of the Stark heirs the Stark land, so called, subject to the conditions hereinafter named, and bounded and described as follows : Northerly on land of the State of New Hampshire, known as the Industrial School premises ; westerly by land of the Concord Railroad ; southerly by land of Elizabeth B. Stark ; easterly by the River road, so called, reserving the land now owned by said city ; also all the right and title of the grantor in the land westerly of said west line and east of the Merrimack river, subject to the Amoskeag Company's right of flowage ; also another piece of land, bounded as follows : Northerly by land of Augustus H.

Stark ; westerly by land of the Concord & Montreal Railroad ; southerly by land formerly owned by the late George Clark ; easterly by the River road (excepting and reserving the land now owned by said city, containing 12.961 acres) ; also all the right and interest of the grantor in the land between said western line and the Merrimack river ; said premises to be subject to the Amoskeag Company's rights of flowage. Said conveyances are to be upon the following conditions: 1. Said premises are to be used as a public park only, and not to be conveyed by said city, except to the State of New Hampshire, or the United States of America, for the same purpose ; 2. No buildings are to be erected on said premises except such as may be deemed necessary and appropriate for the purposes of said park ; 3. Said city is to expend at least \$300 per annum for care of and improvements thereon, on the average. Said premises are the same referred to in the resolution of the city councils dated May 2, 1890, and on the purchase of which the approval of the legal voters was given at the last annual election as required by section 4, chapter 49 of the Laws of the State of New Hampshire. The sum of eight thousand dollars (\$8,000) is hereby transferred from water-works to Stark Monument Square, for the payment for said land.

Passed January 2, 1891.

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