

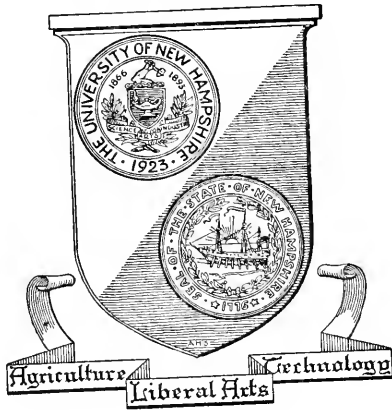
City of Manchester, N. H.



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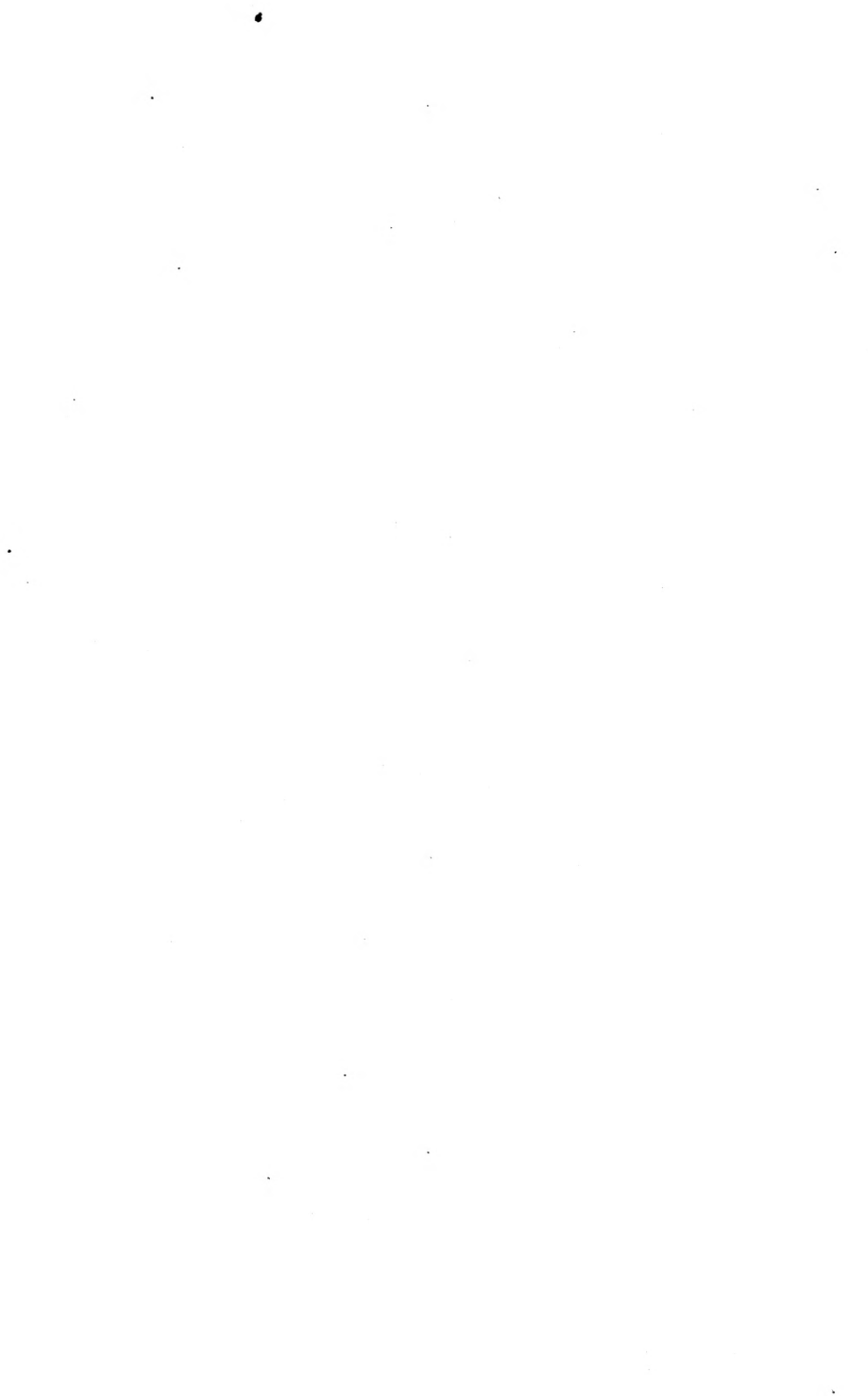
James B. Straw,

City Auditor.

Library of







FORTY-SEVENTH ANNUAL REPORT

OF THE

RECEIPTS AND EXPENDITURES

OF THE

CITY OF MANCHESTER

NEW HAMPSHIRE

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1892

TOGETHER WITH

OTHER ANNUAL REPORTS AND PAPERS RELATING TO
THE AFFAIRS OF THE CITY



MANCHESTER:

PRINTED BY THE JOHN B. CLARKE COMPANY

1893

CITY OF MANCHESTER.

IN BOARD OF COMMON COUNCIL.

AN ORDER to print the Forty-seventh Annual Report of the Receipts and Expenditures of the City of Manchester.

ORDERED, If the Board of Mayor and Aldermen concur, that the joint standing committee on finance be, and they hereby are, authorized to procure, for the use of the inhabitants of said city, the printing of the Forty-seventh Annual Report of the Receipts and Expenditures of the City of Manchester, including the reports of the joint standing committee on finance, the city auditor, the school board, and superintendent of schools, superintendent of water-works, water commissioners, engineer of fire department, city marshal, overseers of the poor, trustees, librarian, and treasurer of the city library, committee on cemeteries, joint standing committee on city farm, city physician, city solicitor, city engineer, and such other matters relating to city affairs as said finance committee may direct, the expense thereof to be charged to the appropriation for printing and stationery.

IN BOARD OF COMMON COUNCIL. February 7, 1893.

Passed.

FRED T. DUNLAP, *President.*

IN BOARD OF MAYOR AND ALDERMEN. February 7, 1893.

Passed in concurrence.

E. J. KNOWLTON, *Mayor.*

MANCHESTER
CITY GOVERNMENT.

1892.

Mayor.

EDGAR J. KNOWLTON Office, City Hall

Chosen at biennial election in November, 1890. Salary, \$1,800 per annum, payable quarterly. (Act of June, 1848, section 1. Chapter 223, Laws of 1883. Public Statutes, chapter 47.) Residence, 533 Lake avenue. Telephone at house and office.

Aldermen.

Act of June, 1848, section 1. Public Statutes, chapter 48.

Ward 1. John L. Sanborn, 25 Amoskeag Corporation, Market street.

Ward 2. Oliver B. Green, 749 Pine street.

Ward 3. William Corey, 488 Maple street.

Ward 4. W. Byron Stearns, 320 Manchester street.

Ward 5. John J. Holland, 218 Central street.

Ward 6. Byron Worthen, 524 Lake avenue.

Ward 7. * Andrew J. Dickey, 9 Manchester Corporation, West Merrimack street.

Ward 8. Walter M. Fulton, 664 Main street, West Manchester.

* Deceased December 12, 1892.

President of the Common Council.

Edson S. Heath, 13 Amoskeag Corporation, Middle street.

Members of the Common Council.

Act of June, 1848, section 1. Public Statutes, chapter 48.

WARD 1.

John P. Mullen, Amoskeag Corporation, 12 Whitney street.
Oliver J. Butman, 26 Amoskeag Corporation, Stark street.
Thomas Wilkinson, Amoskeag Corporation, 3 Boyden street.

WARD 2.

Alfred D. Maxwell, Goffstown road near Front street.
Kirk C. Bartlett, 91 Harrison street.
Fred T. Dunlap, 220 Prospect street.

WARD 3.

George W. Reed, 490 Chestnut street.
George M. Clark, 88 Ash street.
Alfred Nearbonne, 280 East High street.

WARD 4.

Charles E. Cox, 475 Hanover street.
John P. Cronin, 126 Manchester street.
Evangeliste V. Turcotte, 229 Merrimack street.

WARD 5.

Richard J. Barry, 195 Central street.
Daniel J. Ahern, 21 Spruce street.
William G. Cotter, 72 Spruce street.

WARD 6.

Thomas Walker, Jr., Goffe's Falls.

George M. Bean, Candia road near Massabesic.

Albert J. Peaslee, Cohas avenue near water-works.

WARD 7.

Edson S. Heath, 13 Amoskeag Corporation, Middle street.

Charles C. Chapman, 78 Amoskeag Corporation, West Merrimack street.

Levi K. Snow, 86 Amoskeag Corporation, Canal street.

WARD 8.

* John H. Schimmel, 266 Douglas street, West Manchester.

Francois X. Robitaille, 51 Lake avenue.

Christian L. Wolff, 36 Clinton street, West Manchester.

Clerk of Common Council.

George L. Stearns, 58 Myrtle street.

Salary, \$200. (General Laws, chapter 46, sections 7-9. City Laws and Ordinances, page 33, chapter 6, section 11.)

City Clerk.

Nathan P. Kidder Office, City Hall

Salary, \$900. The city clerk, in addition to his salary, is in receipt of fees as registrar of births, marriages, and deaths, and as a recording officer for record of mortgages on personal property, of attachments of real estate, of partnerships and assignments, and for recording various other legal papers. He also receives fees for issuing dog licenses, billiard and bowling alley licenses, for certifying records, and for various other matters.

These fees are established by the state legislature under various laws, and are estimated to be between \$2,100 and \$2,500 per annum. Chosen in conven-

* Deceased October 8, 1892.

tion of City Councils in January, annually. (Charter, section 22. Public Statutes, chapter 50. Act of 1849. City Laws and Ordinances, pages 42, 43, 68, 72, 73, 84, 86, 89, 114, 122, 123, 124, 166, 189.) Residence, 313 Manchester.

City Auditor.

James B. Straw Office, City Hall

Salary, \$1,000. Appointed by Mayor, and approved by Board of Aldermen, in January, annually. (Laws of 1889, chapter 287. City Ordinances, pages 44, 71, 83-88, 173.) Residence, 593 Union street.

Auditor's Clerk.

L. M. Cogswell Auditor's Office, City Hall

Salary, \$600. Residence, 645 Union street.

City Treasurer.

Sylvanus B. Putnam Office, City Hall

Salary, \$1,200. Elected in convention of City Councils, in January, annually. (Charter, section 23. Act of 1856, section 4. General Laws, chapter 48, sections 3, 4. Act of 1859, section 4. City Laws and Ordinances, pages 36, 86-89, 170, 172.) Residence, 437 Amherst street.

Collector of Taxes.

George E. Morrill Office, City Hall

Salary, \$1,650 and fees. Elected by Mayor and Aldermen before May 1, annually. (Act of July, 1851. Act of June, 1859, section 6. Public Statutes, chapter 43. City Laws and Ordinances, chapter 33.) Residence, 740 Chestnut street.

Deputy Collector of Taxes.

Edwin C. Paul Collector's Office, City Hall

Paid by collector. Appointed by tax collector with approval of Mayor and Aldermen. (City Laws and Ordinances, chapter 33, section 3.) Residence, 416 Central street.

City Solicitor.

Edwin F. Jones Office, Patten's Block, 936 Elm street.

Salary, \$800. Elected in convention of City Councils in January, annually. (City Laws and Ordinances, chapters 4, 6, pages 70, 72) Residence, 15 High street.

City Messenger.

John A. Barker Office, City Hall

Salary, \$700. Elected in convention of City Councils in January, annually. (City Laws and Ordinances, chapters 4, 6.) Residence, 49 Appleton street.

Joint Standing Committees.

On Finance.—The Mayor and Alderman Stearns; Councilmen Walker, Jr., Cox, and Dunlap.

On Accounts.—Aldermen Worthen and Stearns; Councilmen Reed, Turcotte, and Wolff. (Meet Wednesday succeeding the twenty-fourth of each month. All bills must be left at the city auditor's office, properly approved, not later than the twentieth of each month.)

On Claims.—Aldermen Stearns and Green; Councilmen Chapman, Reed, and Barry. (Meet third Friday of each month.)

On Streets.—Aldermen Corey and Green; Councilmen Maxwell, Clark, and Walker, Jr.

On Sewers and Drains.—Aldermen Holland and Dickey; Councilmen Maxwell, Clark, and Peaslee.

On Lighting Streets.—Aldermen Green and Sanborn; Councilmen Cox, Bartlett, and Snow.

On Lands and Buildings.—Aldermen Worthen and Fulton; Councilmen Cronin, Wilkinson, and Chapman.

On Fire Department.—Aldermen Dickey and Corey; Councilmen Butman, Cronin, and Nearbonne.

On Commons and Cemeteries.—Aldermen Sanborn and Holland; Councilmen Bean, Snow, and Wolff.

On Public Instruction.—Aldermen Stearns and Sanborn; Councilmen Schimmel, Ahern, and Robitaille.

On Water-Works.—Aldermen Holland and Sanborn; Councilmen Mullen, Barry, and Nearbonne.

On City Farm.—Aldermen Fulton and Worthen; Councilmen Peaslee, Butman, and Ahern.

On House of Correction.—Aldermen Sanborn and Dickey; Councilmen Mullen, Ahern, and Wolff.

On Military Affairs.—Aldermen Fulton and Stearns; Councilmen Turcotte, Cotter, and Schimmel.

Standing Committees.

BOARD OF ALDERMEN.

On Enrollment.—Aldermen Green and Holland.

On Bills on Second Reading.—Aldermen Holland and Fulton.

On Market.—Aldermen Fulton and Green.

On Marshal's Accounts.—Aldermen Dickey and Worthen.

On Licenses.—Aldermen Corey and Sanborn.

On Setting Trees.—Aldermen Stearns and Corey.

On Special Police.—Aldermen Worthen and Dickey.

COMMON COUNCIL.

On Election Returns.—Councilmen Cox, Bartlett, and Walker, Jr.

On Bills on Second Reading.—Councilmen Clark, Dunlap, and Snow.

On Enrollment.— Councilmen Chapman, Wilkinson, and Barry.

City Physician.

Frederick Perkins Office, 895 Elm street

Salary, \$200. Elected by City Councils in convention, in January, annually. (Laws of 1870, chapter 99. City Ordinances, chapter 6, sections 29, 30.) Residence, 490 Lake avenue.

City Engineer.

Winfred H. Bennett Office, City Hall

Salary, \$1,200. Chosen by City Councils in convention, in January, annually. (City Ordinances, chapter 6, sections 33, 34.)

Water Commissioners.

(Chapter 70, Laws of 1871. City Ordinances, chapter 36, and Laws of 1891, chapter 26, page 319, act approved March 31, 1891.) One commissioner elected annually by mayor and aldermen, in the month of September, for a term of six years. Office at Court House, corner Franklin and West Merrimack streets. Telephone at office, and at pumping station.

Edgar J. Knowlton, *ex-officio*.

Charles H. Manning, term expires January, 1895.

Andrew C. Wallace, term expires January, 1894.

Alpheus Gay, term expires January, 1899.

Henry Chandler, term expires January, 1898.

James A. Weston, term expires January, 1897.

Joseph F. Kennard, term expires January, 1896.

Alpheus Gay, *Chairman*.

James A. Weston, *Clerk*. Salary, \$100. Chosen by the board of commissioners.

Superintendent of Water-Works.

Charles K. Walker . . . Office, Court House, Franklin street
 Salary, \$1,600. Chosen by water commissioners annually. Residence, 68
 South Main street, West Manchester.

Clerk of the Water-Works.

Arthur E. Stearns . . . Office, Court House, Franklin street
 Salary, \$1,200. Chosen by the water commissioners annually. Residence,
 421 Hanover street.

Engineer at Pumping Station.

Josiah Laselle. Salary, \$700, rent, fuel, and use of land.
 Chosen by water commissioners annually.

Justice of the Police Court.

Nathan P. Hunt, court room at Police Station, corner Man-
 chester and Chestnut streets.

Salary, \$1,500. Appointed by Governor, with the advice of the Council.
 (General Laws, chapter 215; chapter 163, sections 17, 18, 19 of the Laws of
 1878, as amended by chapter 236, Laws of 1881. Public Statutes, chapter 211.)
 Residence, 747 Union street.

Associate Justice of the Police Court.

Isaac L. Heath . . . Salary, \$2 per day of actual service
 Appointed by the Governor, with advice of the Council. (Chapter 215, Gen-
 eral Laws, sections 2-14. Public Statutes, chapter 211.) Residence, 16 High
 street.

Clerk of the Police Court.

John C. Bickford Salary, \$600

Appointed by the justice of the police court. (Chapter 163, sections 17-19, General Laws, amended by chapter 236, Laws of 1881. Public Statutes, chapter 211.) Residence, 15 Ash street.

Police.

The members of the police force are appointed by the Mayor and Aldermen, in January of alternate years, for a term of two years, unless sooner removed for cause. They are, by virtue of their appointment, constables and conservators of the peace, and their jurisdiction extends throughout the city. The term of any officer elected to fill a vacancy, or to increase the number of officers, expires at the time of the next regular election. (Chapter 253, section 5, General Laws; chapter 303, Laws of 1887; City Ordinances, pages 30, 34, 35, 37, 53, 54, 76, 102, 103, 107, 164.) Police station at the corner of Chestnut and Manchester streets.

City Marshal.

Michael J. Healy Office at Police Station

Salary, \$900. Residence, 551 Granite street, West Manchester. Telephone at house and office.

Assistant Marshal.

John F. Cassidy Office at Police Station

Salary, \$800. Residence, 415 Manchester street.

Captain of the Watch.

Lafayette Tebbetts. Salary, \$2.50 per day. Residence, 222 Laurel street.

Day Police.

SALARY, \$2.25 PER DAY.

Randall W. Bean, 77 Ash street.
 Edgar Farrar, 74 Penacook street.
 Ira P. Fellows, 82 A street, West Manchester.
 Edwin A. Hutchins, 11 Mill street, Amoskeag.
 Henry McAllister, 852 Elm street, room 18.
 John T. O'Dowd, corner Pine and Laurel streets.
 Florence Sullivan, 213 Cedar street.

Night Patrol.

SALARY, \$2.25 PER DAY.

* Jonathan E. Floyd, 823 Union street.
 Halbert A. Bond, 136 Concord street.
 Henry A. Burns, 505 Maple street.
 Ira F. Davis, 38 Stark street.
 Norbert Decoteau, 302 Cartier street, West Manchester.
 James F. Dunn, 237 Elm street.
 Lowell O. Fowler, 1417 Elm street.
 John Hartnett, 206 Cedar street.
 John J. Hurley, 270 Auburn street.
 Benjamin F. Lake, 732 Elm street.
 George A. Lovejoy, 99 Orange street.
 Augustus C. Martin, 46 Parker street, West Manchester.
 Henry Masse, 332 Beauport street, West Manchester.
 Kenneth McDonald, 305 Chestnut street.
 Samuel L. Mitchell, 430 Manchester street.
 Frank P. Moore, 411 Belmont street.
 John F. O'Malley, 130 Merrimack street.
 Wallace Parmenter, 32 Arkwright street.
 Francois Reinville, 410 Dubuque street, West Manchester.

* Resigned in November.

Philip Reischer, 292 Main street, West Manchester.

Olaf Ring, 8 Dean street, room 18.

Lyman Roby, 403 Lake avenue.

Gilbert A. Sackett, 589 North Main street, West Manchester.

Timothy P. Shea, 213 Auburn street.

John T. Welch, 1263 Elm street.

Charles W. Stevens, 9 Russell street.

* Theodore Floden, 852 Elm street.

Janitor of Station.

Peter Larabee. \$1.75 per day. Residence, 124 Willow street.

Matron.

Miss A. B. Brown. \$415 per annum. Residence, 329 Chestnut street.

School Committee.

Chosen at the biennial election in November, 1890; Mayor and president of the Common Council members *ex officio*. The board of school committee choose the clerk of the board, the superintendent of public instruction, the truant officer, and the teachers in the public schools, and determine their salaries. They have charge of the repairs of schoolhouses, to a limited extent, and the purchase of free text-books and other supplies, and are limited by the appropriations of the City Councils. The salary of the committee is \$10 each.

WARD 1.

Charles H. Manning, 17 Mechanic street.

Charles D. Sumner, 22 Amoskeag Corporation, Stark street.

WARD 2.

† Charles S. Murkland, 906 Chestnut street, above Clark street.

‡ William H. Morrison, 82 Prospect street.

George H. Stearns, 1934 Elm street.

* Elected to fill vacancy.

† Chosen to fill unexpired term September 6, 1892.

‡ Moved out of the ward; resigned September 6, 1892.

WARD 3.

George D. Towne, 170 Lowell street.

Louis E. Phelps, 103 Walnut street.

WARD 4.

Stephen B. Stearns, 464 Amherst street.

Edwin L. Richardson, 304 Manchester street.

WARD 5.

James P. Slattery, 217 Central street.

William J. Sughrue, 61 Spruce street.

WARD 6.

F. T. E. Richardson, 481 Lincoln street.

George W. Dearborn, 131 Massabesic street.

WARD 7.

Marshall P. Hall, 26 Amoskeag Corporation, Market street.

Edward B. Woodbury, 1 Manchester Corporation, Pleasant street.

WARD 8.

Luther C. Baldwin, 157 Milford street.

William K. Robbins, 290 McGregor street.

Edson S. Heath, *ex officio*, 13 Amoskeag Corporation, Middle street.

Edgar J. Knowlton, chairman, 533 Lake avenue. Office, City Hall.

Edward B. Woodbury, clerk, salary \$100, 1 Manchester Corporation, Pleasant street.

Superintendent of Public Instruction.

William E. Buck Office, City Hall
 Salary, \$2,000. Residence, 324 Myrtle street.

Truant Officer.

Samuel Brooks Office, City Hall
 Salary, \$750. Residence, 413 Beech street.

Assessors.

One assessor from each ward chosen at the biennial election in November. Paid \$2.50 each, for each day while employed in the assessment and abatement of taxes. Office, City Hall. (Charter, section 25. Public Statutes, chapter 48, section 1; chapter 50, section 4; chapter 49, sections 10, 11, 12. City Ordinances, chapter 6, section 26.) Assistant assessors, not exceeding six, chosen by the City Councils.

Ward 1. Henry Lewis, 32 Amoskeag Corporation.
 Ward 2. John E. Stearns, 58 Myrtle street.
 Ward 3. David O. Furnald, 384 Lowell street.
 Ward 4. Harrison D. Lord, 387 Hanover street.
 Ward 5. John Ryan, 228 Chestnut street.
 Ward 6. George H. Dudley, 159 Laurel street.
 Ward 7. William T. Rowell, 14 Manchester Corporation.
 Ward 8. Frank T. Provost, 21 Amory street, West Manchester.

CHAIRMAN OF ASSESSORS.

David O. Furnald Office, City Hall

CLERK OF ASSESSORS.

George H. Dudley Office, City Hall

Inspectors of Check-Lists.

One in each ward, chosen at the biennial election in November. Compensation, \$2.25 per day for each day actually employed. Office, City Hall. (Laws of 1878, chapter 163, sections 5, 6, 7, 9, 10, 11, 12, 13, 14, 16, and City Ordinances, chapter 14, section 9.)

- Ward 1. George C. Kemp, 40 Machine Shop block.
- Ward 2. * Benjamin L. Hartshorn, 28 Blodget street.
- Ward 2. † Charles B. Tucker, 777 Union street.
- Ward 3. David O. Fernald, 384 Lowell street.
- Ward 4. Harrison D. Lord, 387 Hanover street.
- Ward 5. Patrick E. Daly, 80 Auburn street.
- Ward 6. Isaac Whittemore, River road, south.
- Ward 7. Joseph A. Foster, 42 Amoskeag Corporation.
- Ward 8. Charles C. Tinkham, 9 Parker avenue.
- Ward 9. William K. Robbins, 290 McGregor street.

Overseers of the Poor.

One in each ward, chosen at biennial election in November. The Mayor is a member *ex officio*. Compensation, \$25 per annum, each; clerk of the board, \$75 per annum, determined by City Ordinances, chapter 14, section 18, as amended by Ordinance of August 5, 1890. Meet third Wednesday of each month in City Hall Building.

- Ward 1. William H. Maxwell, clerk, 20 Amoskeag Corporation, Stark street.
- Ward 2. Thomas L. Quimby, railroad station, foot West Salmon street.
- Ward 3. Benjamin F. Garland, 28 Linden street.
- Ward 4. George S. Holmes, 296 Hanover street.
- Ward 5. Patrick Costello, 106 East Spruce street.
- Ward 6. Charles Francis, Candia road, East Manchester.
- Ward 7. William Marshall, 72 Amoskeag Corporation, West Merrimack street.

* Deceased April 2, 1892.

† Chosen September 6, 1892, for unexpired term.

Ward 8. William Weber, 187 Second street, West Manchester.

Edgar J. Knowlton, *ex officio*, office, City Hall.

Board of Health.

(City Ordinances, chapter 14, section 10, as amended. Laws of 1885, chapter 165; Laws of 1887, chapter 227; Public Statutes, chapters 108, 109, 110.) One member appointed by the Mayor in January of each year, to hold office for a term of three years. Salary, \$200 each per annum.

George C. Hoitt, M. D., 1179 Elm street. Term expires first Monday in February, 1893.

Joseph B. Sawyer, clerk, civil engineer, 356 Hanover street. Term expires first Monday in February, 1895.

Cornelius F. Starr, M. D., 49 Manchester street. Term expires first Monday in February, 1894.

* Russell White, sanitary inspector, 575 Union street. Office, 936 Elm street.

† Melvin J. Jenkins, sanitary inspector, 31 Nashua street. Office 926 Elm street.

Herbert S. Clough, sanitary inspector, Hanover-street road. Office City Hall.

John F. Looney, sanitary inspector, 164 Auburn street. Office City Hall.

Fire Department.

The chief engineer and four assistant engineers are chosen annually in the month of January, by a majority of the City Councils in convention. The salary of the chief engineer is \$1,000 per annum; the assistant engineers, each \$125 per annum. They exercise the powers and perform the duties of firewards. The said engineers constitute the board of engineers, and elect a clerk whose compensation is \$25 a year. The annual compensation of the members of the several hook and ladder, hose, steam fire engine, and chemical engine companies is as follows: Foremen, each \$115; assistant foremen, each

* Retired April 1, 1892.

† Retired February 1, 1892.

\$110; clerks, each \$110; engineers, each \$135; assistant engineers, each \$105; all other members, each \$100; payable in equal semi-annual payments, on the first of January and July. (Laws of 1870, chapter 99. General Laws, chapter 106. City Ordinances, chapters 6 and 12.) Nineteen members are steadily employed as teamsters and engineers, etc.: Two at \$62.50 per month, each; eleven at \$55 per month, each; four at \$50 per month, each; two at \$45 per month, each. Members of the companies are appointed by Board of Mayor and Aldermen, in the month of February, annually, on list presented by the board of engineers. The officers of each company are appointed by the board of engineers.

Chief Engineer.

Thomas W. Lane . . . Office, Central Station, Vine street

Residence, 1037 Elm street. Telephone at house and office.

Fred S. Bean, clerk, 102 Orange street.

Ruel G. Manning, 52 Douglas street, West Manchester.

Eugene S. Whitney, River road, north, corner West street.

Clarence R. Merrill, 414 Merrimack street.

For further information see chief engineer's report.

Trustees of City Library.

(Laws of 1854, chapter 1588. See contract with Manchester Atheneum, printed on pages 107, 108 of City Report for fiscal year ending January 31, 1855.) Board of seven trustees, one of whom is elected by Aldermen and board of trustees, in joint convention, in September annually. Term of service, seven years; no salary. Two additional trustees, Mayor, and president of Common Council, *ex officio*.

Lucien B. Clough, term expires October 1, 1895, 181 Walnut street.

Nathan P. Hunt, term expires October 1, 1894, 747 Union street.

Herman F. Straw, term expires October 1, 1893, 607 Chestnut street.

Walter M. Parker, term expires October 1, 1899, West Webster street, corner Elm.

Isaac W. Smith, term expires October 1, 1898, 1855 Elm street.

Moody Currier, term expires October 1, 1897, Ash street, corner Myrtle.

* Benjamin C. Dean, term expires October 1, 1896, Ash street, corner Myrtle.

Edgar J. Knowlton, *ex officio*, 533 Lake avenue.

* Edson S. Heath, *ex officio*, 13 Amoskeag Corporation, Middle street.

Highway Surveyors.

Elected annually in joint convention in City Councils in January.

District No. 1. Raymond P. Campbell, Union street, north. Salary, \$2 per day.

District No. 2. William Sanborn, 89 Pennacook street. Salary, \$1,200 per annum.

District No. 3. Eben Carr, Union street, north. Salary, \$2 per day.

District No. 4. Byron E. Moore, Goffe's Falls. Salary, \$2 per day.

District No. 5. Mark E. Harvey, Nutt road, south. Salary, \$2 per day.

District No. 6. Greenleaf C. Coleman, Island Pond road. Salary, \$2 per day.

District No. 7. Charles Francis. Candia road, East Manchester. Salary, \$2 per day.

District No. 8. George H. Penniman, Hanover street, corner of Mammoth road. Salary, \$2 per day.

District No. 9. Alphonso Boyce, Mammoth road. Salary, \$2 per day.

District No. 10. Charles O. Phelps, 341 South Main street. Salary, \$2.50 per day.

District No. 11. Frank D. Hanscom, Goffstown road. Salary, \$2 per day.

* Resigned. C. D. McDuffie elected March 12, 1892, for balance of term.

District No. 12. Leroy M. Streeter, Mammoth road, city farm. Salary, \$2 per day.

Telephone at house and office of superintendent in district No. 2.

City Weigher.

Elected annually in convention of City Councils. Salary, \$400 per annum, all fees for weighing returned monthly to city treasurer with sworn statement. Stationed at city scales on Franklin street.

William Bailey Office, city scales.

Residence, 74 Main street, West Manchester.

Sealer of Weights and Measures.

Albert T. Barr, 257 Merrimack street.

Elected annually in January by City Councils in convention. Paid by fees. (Section 25, chapter 43, Public Statutes, and chapter 125, Public Statutes.)

Fish and Game Wardens.

(Public Statutes, chapter 130.) Elected by City Councils in convention.

John C. Higgins, 143 Orange street.

George A. Clark, 304 Central street.

Samuel S. James, 184 Laurel street.

William C. Clarke, 711 Pine, corner North street.

C. R. Hodge, 574 Hall street.

Trustees of Cemeteries.

(City Ordinances, chapter 39, sections 1, 2, 3, 4.) Two trustees elected by City Councils in convention in January, annually, for the term of four years. Sub-trustees appointed by board of trustees.

George W. Bacon, 65 Stark Corporation, Canal street, term expires January, 1895.

William H. Huse, Mammoth road, term expires 1895.

Nathan P. Hunt, Union street near Blodget, term expires 1894.

Bushrod W. Hill, 299 Hanover street, term expires 1894.

John M. Kendall, 311 Central street, term expires 1893.

Hiram Stearns, east side of Front street, Amoskeag, term expires 1893.

Charles H. Bartlett, 25 High street, term expires January, 1896.

John P. Young, 346 Merrimack street, term expires January, 1896.

S. B. Putnam, clerk and treasurer, 437 Amherst street.

Sub-Trustees of Cemeteries.

VALLEY CEMETERY.

Alderman John J. Holland, 218 Central street.

Councilman Levi K. Snow, 86 Amoskeag Corporation.

Nathan P. Hunt, 747 Union street.

Bushrod W. Hill, 299 Hanover street.

John M. Kendall, 311 Central street.

PINE GROVE CEMETERY.

Alderman John L. Sanborn, 25 Market street.

Councilman George M. Bean, Candia road, Massabesic street.

George W. Bacon, 66 Stark Corporation, Canal street.

John P. Young, 346 Merrimack street.

Charles H. Bartlett, 25 High street.

AMOSKEAG CEMETERY.

Councilman Chris. L. Wolff, 36 Clinton street, West Manchester.

Hiram Stearns, east side Front street, Amoskeag.

William H. Huse, Mammoth road, East Manchester.

SUPERINTENDENT OF PINE GROVE CEMETERY.

Byron A. Stearns. Office at the cemetery; residence, 254 Taylor street. Telephone at house and cemetery.

SUPERINTENDENT OF VALLEY CEMETERY.

Charles H. G. Foss. Office at the cemetery ; residence, 267 Lake avenue.

TRUSTEES OF CEMETERY FUNDS.

James A. Weston, *chairman*, 621 Maple street.
 Person C. Cheney, Harrison street, corner Elm.
 Edgar J. Knowlton, (*ex-officio*), 533 Lake avenue.

 Inspector of Milk.

H. F. W. Little Office, rear of 13 Lowell street
 Residence, 385 Lowell street. Term expires February 1, 1893. (Public Statutes, chapter 127.) Appointed by Mayor and Aldermen. Salary, \$300 per annum.

 Inspector of Buildings.

Thomas W. Lane Office at Central Fire Station
 Residence, 1937 Elm street. Appointed by Board of Mayor and Aldermen, biennially, in February. Salary, \$100 per annum. (City Ordinances, chapter 15. Laws of 1883, chapter 94. Public Statutes, page 170) Telephone at house and office.

 Inspectors of Oil.

William Bailey 74 Main street, West Manchester
 Joseph B. Baril 28 Hanover street
 (Public Statutes, chapter 126, sections 25-34. City Ordinances, chapter 25.)
 Paid by fees, $\frac{1}{4}$ of 1 per cent per gallon.

Moderators.

Elected biennially. (General Laws, chapter 31, sections 3, 9; chapter 36, section 9; chapter 44, section 7. City Ordinances, page 18.) See Public Statutes relating to towns and cities.

Ward 1. Abial W. Eastman, 24 Amoskeag Corporation, Stark street.

Ward 2. Nicholas Nichols, 587 Chestnut street.

Ward 3. E. R. Robinson, 517 Chestnut street, north.

Ward 4. George C. Gilmore, 323 Manchester street.

Ward 5. William Howe, 64 Auburn street.

Ward 6. Henry B. Fairbanks, 303 Central street.

Ward 7. Frank A. Dockham, 18 Pleasant street.

Ward 8. Charles G. Ranno, 63 Parker street, West Manchester.

Ward 9. Horace P. Simpson, corner McGregor and Amory.

Ward Clerks.

Elected biennially. (General Laws, chapter 44, sections 10, 12. City Ordinances, page 18. Public Statutes relating to towns and cities.)

Ward 1. Frank X. Foster, 1382 Elm street.

Ward 2. Daniel C. Smith, 1855 Elm street. (Removed to Lawrence.)

Ward 3. Samuel C. Kennard, 609 Beech street.

Ward 4. Harrie M. Young, 33 Dutton street.

Ward 5. Timothy F. Lynch, 25 Spruce street.

Ward 6. George B. Rogers, 277 Laurel street.

Ward 7. Charles A. Foster, 44 Amoskeag Corporation, West Merrimack street.

Ward 8. Frank O. Clement, 47 Dover street.

Ward 9. Israel W. Dickey, 258 McGregor street.

Selectmen.

Elected biennially. (General Laws, chapter 1, section 27; chapter 12, section 6; chapter 40, sections 2, 3; chapter 109, section 27; chapter 213, section 1. City Ordinances, page 18. Public Statutes relating to towns and cities.)

WARD 1.

John H. Wales, Jr., 19 Machine Shop Block, Water street.
Joseph Tait.
John F. Reardon, 12 Arkwright street.

WARD 2.

Daniel G. Andrews, 777 Union street.
Robert R. Chase, 841 Union street.
Harry P. Ray, State Industrial School.

WARD 3.

David Thayer, 102 Walnut street.
John Cronin, 284 Bridge street.
T. P. Heath, 280 Pearl street.

WARD 4.

John K. Currier, 43 Ashland street.
Jeff. T. Perry, 166 Merrimack street.
Charles H. Bodwell, 257 Merrimack street.

WARD 5.

Laurence F. Mahoney, 104 Auburn street.
John B. Laforest, 242 Lake avenue.
Arthur Allen, 74 Auburn street.

WARD 6.

George F. Sargent, Mammoth road, East Manchester.
John T. Gott, 301 East Spruce street.
Peter D. St. Germain, 306 Auburn street.

WARD 7.

Willie D. Wheeler, 25 Manchester Corporation, Grove street.
Sumner D. Clafin, 32 Pleasant street.

John F. Mellady, 53 Amoskeag Corporation, West Merrimack street.

WARD 8.

George E. Fellows, 316 Milford street, West Manchester.

Frank St. John, 5 Barr street, West Manchester.

Odilon Doucet, 126 McGregor street.

WARD 9.

William J. Price, 178 Main street, West Manchester.

Oswald Paris, corner Dubuque and Wayne street.

Edward P. French, 338 McGregor street.

REPORT
OF THE
BOARD OF WATER COMMISSIONERS.

BOARD OF WATER COMMISSIONERS.

1892.

E. J. KNOWLTON, MAYOR, *ex officio*.
ALPHEUS GAY, term expires January, 1899.
ANDREW C. WALLACE, term expires January, 1894.
JAMES A. WESTON, term expires January, 1897.
HENRY CHANDLER, term expires January, 1898.
CHARLES H. MANNING, term expires January, 1895.
CHARLES T. MEANS, term expires January, 1896.

Officers.

ALPHEUS GAY, *President*.
JAMES A. WESTON, *Clerk*.
CHARLES K. WALKER, *Superintendent*.
ARTHUR E. STEARNS, *Registrar*.
JOSIAH LASELLE, *Engineer at Pumping Station*.

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 submit herewith their twenty-first annual report for the year ending December 31, 1892, 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, 1891	\$55,460.47
Receipts from all sources in 1892	83,474.79
	\$138,935.26
Interest on water bonds	\$31,069.00
Current expenses	4,778.00
Repairs and renewals	15,756.42
Construction	29,410.93
Total expenditures	\$81,014.35
Balance unexpended	\$57,920.91

The increase in gross receipts over the year 1891 is \$6,869.56, and the increase of receipts over expenditures is \$2,460.44.

As predicted in the last annual report, it has required substantially the entire earnings of this department to meet the ordinary

expenses, to keep up the renewals of pipes, and to make such outlays for extensions as the rapid expanse of the city limits demands. Nor is it probable that these conditions will be improved in the immediate future. On the other hand, the extensive renewal of pipes that must be provided for to keep the service in a reasonably safe and reliable condition will require a sum very much in excess of what has heretofore been expended for this purpose. As an example, the superintendent reports that the 20-inch force main has given some trouble and a great deal of anxiety the past year. This is the main artery of the system, and any accident to this pipe that would require much time to repair would leave the whole city destitute of water.

This force main has been laid more than eighteen years, and has rendered excellent service, but the date of its failure no one can foretell. Nor is this the only place that requires attention to insure the efficiency of the works, as has been pointed out in previous reports. In a matter so important the city cannot afford to take chances, and your commissioners desire to urge in the most positive manner the necessity of an appropriation sufficient to re-lay the force main with cast-iron pipe and to do such other work as may be necessary to properly guard against a calamity that would be sure to follow the failure of our water supply.

The construction of the high-service system of water-works has been delayed for reasons that are well understood. Time serves to show the needs of this addition to our general system to be more emphatic. The commissioners therefore desire to renew their recommendation under this head as expressed in their last annual report.

Respectfully submitted.

ALPHEUS GAY,
ANDREW C. WALLACE,
JAMES A. WESTON,
HENRY CHANDLER,
CHARLES H. MANNING,
CHARLES T. MEANS,

JANUARY 2, 1893.

Water Commissioners.

SUPERINTENDENT'S REPORT.

To the Honorable Board of Water Commissioners of the City of Manchester :

The report of the superintendent of water-works for the year ending December 31, 1892, is respectfully submitted.

MASSABESIC LAKE.

The water in the lake has been well up to the mark this season. Last year the water at one time was $18\frac{1}{2}$ inches below the dam ; this year the lowest point reached was $7\frac{1}{2}$ inches above, making 26 inches more water during the dryest time this season than the lowest point reached last year. While in some portions of New England there has been a scarcity of water, and a water famine threatened, our supply has been ample and the lake higher than it has been on the average in the summer months.

The following table shows the amount of rainfall, kindly furnished us by Sergeant J. H. Melton, which includes melted snow and sleet, for the year 1892 :

January	3.46 inches.
February	2.18 “
March	2.29 “
April . . . . .	.69 inch.
May	5.42 inches.
June	4.68 “
July	1.72 “
August	6.43 “
September	1.39 “
October	1.01 “
November	3.89 “
December . . . . .	.86 inch.

Total for the year 1892, 34.02.

Land has been bought of the heirs of James M. Webster, which includes two houses and two barns, situated south of the canal and north of the highway, also another piece of land bordering on the old mill-pond, with one house standing on the premises, about eleven acres in all. This gives the city a strip of land 600 feet wide and 1,050 feet long, bordering on the canal.

PUMPING STATION.

Few repairs have been made on the machinery, which is in good order today. You will notice by this report and the others that have been written since the Davidson pump was put in, that the figures show more water pumped by this pump than by the R. D. Wood. I suppose the reason is that the men in charge can get a quarter of a million gallons more water into the reservoir in ten hours by running the Davidson than by running the R. D. Wood pump.

A water-closet and a bath-tub have been added to the water fixtures in the dwelling part, and new timbers put under the lower floor. These timbers were very rotten, caused by no circulation of air underneath. Two windows were put in to remedy this defect.

The following is the amount of water pumped :

RECORD OF PUMPING IN 1892.

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	348 h. 25 m.	20.76	434,124	65,980.848	65,986,848	2,128,608
February	Davidson	292 " 40 "	20.51	365,754	55,594,608	62,128,972	2,107,895
February	R. D. Wood	31 " 15 "	20.03	41,927	5,534,364	58,612,720	1,890,733
March	Davidson	302 " 45 "	21.22	385,610	58,612,720	53,587,908	1,786,263
April	Davidson	369 " 30 "	21.87	405,967	53,587,908	57,437,084	1,852,809
May	Davidson	278 " 35 "	22.04	338,362	53,901,024	67,303,736	2,243,458
May	R. D. Wood	8 " 15 "	22.12	10,056	1,446,060	43,918,880	1,430,627
June	Davidson	218 " 15 "	22.65	282,940	43,918,880	59,487,056	1,951,218
June	R. D. Wood	130 " 00 "	22.71	171,158	23,384,856	76,987,694	2,499,892
July	Davidson	269 " 50 "	21.94	353,178	53,987,056	68,847,540	2,290,880
July	R. D. Wood	123 " 45 "	22.75	168,344	22,300,608	68,847,540	2,290,880
August	Davidson	354 " 15 "	21.31	432,345	66,547,540	58,575,480	1,952,516
August	R. D. Wood	317 " 45 "	20.21	385,365	38,575,480	50,607,824	1,687,284
September	Davidson	327 " 30 "	21.20	398,012	50,497,824	62,273,312	2,075,813
October	Davidson	319 " 45 "	21.35	409,706	62,273,312	69,141,364	2,236,364
November	Davidson	348 " 30 "	21.75	454,877	69,141,364	749,682,392	2,472,462
December	Davidson	348 " 30 "	21.75	454,877	69,141,364	749,682,392	2,472,462
Totals and averages		3,984 " 05 "	21.49	5,103,824	749,682,392	749,682,392	2,472,462

There has been quite an amount of repairs made on the force main, principally on the portion lying in the Dickey swamp. A small gang of men worked most of the time in the month of January repairing leaks on this line. The leaks were not large and were in the joints, but in order to put a sleeve on each joint had to have more or less sheet piling in order to get around it. This pipe may last a number of years by patching up, but it would be well to get pipe enough to renew it. We have enough 20-inch pipe in the pipe-yard to lay over about half the distance from the pumping station to the reservoir. On the supply main only two leaks have been repaired this last year, and that is all the trouble we have had with the supply main.

The superintendent will say in this connection that when the repairs on the supply main are being made, this side of the Hallsville schoolhouse, the water is brought to the city by the way of Valley street, but with four to seven pounds less pressure, which means ten to fifteen feet less head. This route has more turns and the water has farther to go before it is distributed into the main part of the city, and consequently there is more friction. Twelve-inch pipe laid on Beech street from Auburn to Valley, and 10-inch on Wilson from Spruce to Valley would help keep up the common pressure of sixty-two pounds on Elm street. When the pressure is reduced four pounds by letting the water run on lawns and commons or by repairing leaks, we hear complaints from the residents on Wilson Hill where the water runs only into the first story with full pressure.

RESERVOIR.

January 1 anchor ice broke the screens and ran into the pipe chamber at the intake and shut off the water almost entirely. This was discovered in the morning, and it was two o'clock P. M. before the ice was removed so that all the city would be supplied. This is the first time that anchor ice has given us any trouble. The putting in of new screens is all the repairs made about the reservoir.

Pipes have been extended nearly five miles, making about sixty-three miles of distribution pipe now in the city. Pipes were

extended in Amory, Ash, Adams, Bismark, Brook, Beech, Boynton road, Chestnut, Cartier, Clark, East High, George, Gore, Grove, Harvard, Huntress, Liberty, Laurel, Maple, McDuffie, North, North River road, Pine, Prospect, Prince, Pearl, Prout's avenue, Silver, Webster, Wilson, Wilson road, Wilkins, Union, Young, making thirty-four different streets, at an expense of \$194,850.

During the past year 5,027 feet of cement pipe was taken out and cast iron substituted; last season, 9,973 feet were laid over, more than twice as much as this year. We have laid nearly two miles more of extensions. The cost of relaying pipe this season has been about \$4,000. Bought five hundred tons of pipe from McNiel Co., Burlington, New Jersey, at \$26.65 per ton of 2,240 pounds, delivered on the cars in this city. This is the lowest price ever paid.

We have had very little trouble with the pipes this season; two bursts are all that did any damage to private property. Relaying pipe has not been done as fast as it should be, but as fast as the city councils will allow the means with which to do the work. It is necessary to have a small sum on hand in case of accident.

We have had from twelve to fifteen men at work laying extensions, taking out pipe, and making repairs. The fact stands before us that we have over twenty-one miles of old cement pipe to take out and many new streets to put the water in, so it looks to the superintendent as though all the money collected for water rates and the \$60,000 credited to us January 1, 1890, is needed in order to keep up the plant.

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

STREETS.	LENGTH IN FEET.			LOCATION.
	8 in.	6 in.	4 in.	
Amherst.....		103		Corner Union.
Auburn.....		444		Pine to Union.
Canal.....	1,369			Bridge to Market.
Central.....		84		Corner Maple.
Chestnut.....			449	Merrimaek to Central.
Granite.....		197		West side of Main.
Hanover.....		555		Union to Beech.
Kidder Court.....		25	249	Elm, westward.
Laurel.....		101		Corner Maple.
Laurel.....		806		Chestnut to Union.
Mechanic.....		12		Corner Canal.
Merrimaek.....		679		Beech to Maple.
Spring.....		9		Corner Canal.
Stark.....		20		Corner Canal.
Water.....		15		Corner Canal.
Totals.....	1,369	2,960	698	

Total feet relaid, 5,027.

LOCATION OF HYDRANTS SET, 1892.

Amory, corner Hevey ; Amory, corner Montgomery ; Amory, corner Lafayette ; Amory, corner Morgan.

Boynton road, 300 feet south of Hartshorn's ; Boynton road, east of Colley pond ; Boynton road, corner of Grant street.

Chestnut street, near Henry Chandler's.

Clark, corner Union ; Clark, corner Adams.

East High, corner Hall ; East High, corner Belmont.

George, corner

Gore, corner Maple ; Gore, corner Ash.

Harvard, corner Lincoln.

Laurel, corner Chestnut ; Laurel, near Tierney residence.

McDuffie, corner Boynton road ; McDuffie, corner B street.

Prince, corner B ; Prince, corner Boynton road.

Prospect, corner Hall.

River road, corner Clark street.

Sagamore, corner Pine.

Silver, corner Lincoln ; Silver, corner Wilson.

Somerville, corner Beech ; Somerville, corner Maple.

Summer.

Webster, corner Walnut ; Webster, near railway station.

Wilkins, near Carswell residence.

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1892.

STREETS.	Length and size of cement-lined pipe laid.					Length and size of cast-iron pipe laid.					Gates set.	Air valves.	Hydrants.			
	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in	14 in.	12 in.				10 in.	8 in.	6 in.
Force main, C. I. J.	1119											2				
Force main, C. J.	6738				111	324				12		1		2	2	
Supply main.....	8049				126	361			28			1		5	1	4
Adams, north.										789				3		
Appleton										1694				3		4
Amherst.....					4257				67	549				7		11
Arlington					1402					56				2		3
Ash					750						640			1	1	1
Ashland					334				1929				2			
Auburn					57				985	2487			1	6		10
Baker										1698				4		4
Bay										1196				3		1
Beacon.....										435						1
Bedford					553					239				3		3
Beech					37	18			3873	620		7		2	1	2
Belmont.....										2208				3		3
Birch.....										432				2		2

Lake avenue.....	4354			45	104							2280	3		6	1	9
Langton.....				33								427			2		2
Laurel.....				3099								2378			7		12
Liberty.....												657	238		1		1
Lowell.....			3524	32	45		332			4					5	1	6
Manchester.....				3422				570			2				7		11
Maple.....				1108½								7½	752		3	1	2
Market.....				962											2		3
Massachusetts.....						716				1							
Mechanic.....				776								12			2		3
Merrimack.....				2865	6			1544			2	1557			9		16
Middle.....				768											1		2
Monroe.....												242			1		1
Morrison.....												352					
Myrtle.....				2719								735			3		9
Nashua.....					57							477				1	
North.....							1486			1		25					3
North River road.....								1611			1	1107					4
Nutt road.....								800							1		
Orange.....				1784								2804			6		11
Pennacook.....												1570			2		4
Pearl.....				1651				1012			2	1845			4		13

Union.....	643			3377	319			8	2	2
Valley.....		3641	1923	2096		1	1	2		9
Vine.....					39	340				1
Wabaut.....		694	609			545	619		3	3
Washington.....			57				294			3
Water.....			721			15				2
Webster.....						3191				7
Wilson.....		1334	10		455			4		1
Wilson road.....										1
Willow.....							381			2
Young road.....							550			5
Young street.....						2780				1
Welch avenue.....						875				1
West side river.....						10	292			1
A.....			61							3
Adams.....						775			1	2
Amoskeag road.....						410			1	1
Amory.....						10		2	1	1
Barr.....							4458		6	8
Bath.....			28							1
Boynton road.....						517				2
Beaumont.....						2279			1	2
Beaumont.....						3579				3

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1892. — *Continued.*

STREETS.	Length and size of cement-lined pipe laid.				Length and size of cast-iron pipe laid.				Gates set.			Air valves.	Hydrants.	
	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.			8 in.
Piscataquog river..													2	1
Prince.....							598					1		2
Putnam.....							92					1		2
Quincy.....						253								
Riddle.....												1		1
Rimmon.....							1411					3		
River.....						68	1217				2	1		
School.....						28						2		3
Second.....							1475					3		3
Schuyler.....							215					1		1
Sullivan.....							35	389				1		1
Third.....						20	422	220				2	1	1
Varnum.....							80					1		1
Walker.....							199					2		3
Wayne.....							923					2		3
West.....						210	482					2	2	1

DISTRIBUTION PIPES AND GATES LAID TO DECEMBER 31, 1892.

SIZE.	Cement-lined pipe.	Cast-iron pipe.	Gates.
20 inch diameter.....	20,560.00 feet.	5,146.00 feet.	9
14 inch diameter.....	6,125.00 "	8,298.00 "	11
12 inch diameter.....	7,444.00 "	14,263.00 "	21
10 inch diameter.....	3,474.75 "	12,303.00 "	16
8 inch diameter.....	6,946.00 "	31,652.00 "	58
6 inch diameter.....	62,515.50 "	133,840.00 "	356
4 inch diameter.....	4,369.00 "	14,423.00 "	50
	111,434.25 feet.	219,925.00 feet.	521

Cement-lined pipe 21.105 miles

Cast-iron pipe 41.652 "

Total pipe 62.757 miles

521 gates.

510 hydrants.

7 air valves.

SERVICE PIPES.

Two hundred and thirty-four service pipes have been laid this year as follows :

234 1 inch diameter 5,843.3 feet

SERVICE PIPES RELAID.

1	$\frac{1}{2}$ inch diameter,	17.0 feet to	$\frac{3}{4}$ inch diameter	15.0 feet
1	$\frac{1}{2}$ " "	36.4 " to	1 " "	34.0 "
6	$\frac{3}{4}$ " "	152.0 " to	1 " "	152.0 "
1	1 " "	17.0 " to	2 " "	17.0 "
1	$1\frac{1}{4}$ " "	400.0 " to	4 " "	

Thirty-eight hundred and fifty-nine (3,859) service pipes have been laid to date, as follows:

36	1/2	inch diameter	.	.	.	.	.	774.2	feet
1753	3/4	"	"	.	.	.	.	46,020.6	"
1973	1	"	"	.	.	.	.	50,332.0	"
22	1 1/4	"	"	.	.	.	.	893.5	"
18	1 1/2	"	"	.	.	.	.	552.3	"
48	2	"	"	.	.	.	.	1,921.9	"
1	2 1/2	"	"	.	.	.	.	57.0	"
1	3	"	"	.	.	.	.	16.8	"
7	4	"	"	.	.	.	.	233.0	"

Total length of service pipe 100,801.3 feet

Number of miles of service pipe, 19.091.

METERS.

The number of meters set during the year was two hundred and ninety-five (295).

Total number of meters now in use, sixteen hundred and eight (1608).

The number of applications for water to date has been forty hundred and twenty-two (4,022).

The income from the sale of water for 1892 has been as follows:

Received for water by rate	\$36,344.24
for water by meter	46,139.35
for water for building purposes	416.00
from fines	168.40
for labor and pipes sold	45.55
of G. G. Griffin (lease)	1.00
of Fletcher Brown (lease)	1.00
of T. C. Pratt, for house	100.00
of William Prescott, for barn	15.00
of G. G. Prescott, rent	30.00
of William G. Brown, rent	21.00
of Auburn Grange, rent	50.00

Received of G. S. Patten, grass	\$7.00	
of C. F. Whittemore, grass	4.00	
of Charles Reed, grass	4.00	
of Nason Hall, use of pasture	20.00	
of DeCourcy, Holland & Co., ice	10.00	
for potatoes	4.00	
for old cement pipe	94.25	
	<u> </u>	\$83,474.79
Abatements, \$116.19.		
Current expenses for 1892	\$4,778.00	
Repairs for 1892	15,756.42	
Construction for 1892	29,410.93	
Total	<u>\$49,945.35</u>	
Interest for 1892	31,069.00	
	<u> </u>	81,014.35
Receipts over expenditures		\$2,460.44

CLASSIFICATION OF ACCOUNTS FOR 1892.

Superintendence, repairs, and renewals	\$17,139.02	
Stationery and printing	167.91	
Office and incidental expenses	537.05	
Pumping expenses	2,071.03	
Repairs to dam, canal, and reservoir	125.59	
Repairs to buildings	493.82	
	<u> </u>	\$20,534.42
Current expenses for 1892		\$20,534.42
Service pipes	\$3,109.44	
Distribution pipes	14,463.88	
Fire hydrants and valves	3,036.08	
Meters and fixtures	5,493.54	
Pump house and buildings	307.99	
Land	3,000.00	
	<u> </u>	
Construction expenses for 1892		29,410.93
Total		<u>\$49,945.35</u>

Land and water rights	\$62,799.14
Dam, canal, penstock, and races	101,399.16
Pumping machinery, pump house, and buildings	107,904.53
Distributing reservoir	71,542.36
Force and supply main	89,769.02
Distribution pipes	397,507.47
Fire-hydrants and valves	46,145.97
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	52,808.66
Meters and fixtures	34,258.97

Total construction account to

Dec. 31, 1892 \$1,017,632.75

Current expenses :

Superintendence, collecting, and re- pairs	\$181,535.86
Stationery and printing	5,849.57
Office and incidental expenses	19,389.84
Pumping expenses and repairs	43,239.62
Repairs to buildings	2,258.27
Repairs to dam, canal, races, and res- ervoir	3,956.84

Total current expenses to Dec.

31, 1892 \$256,230.00

Interest \$40,678.51

Highway expenditures 14,000.53

\$54,679.04

Total amount of bills approved

to date \$1,328,541.79

Interest, discount, and labor performed on highways, transfers, and tools and materials sold	\$62,792.14	
Current expenses to Dec. 31, 1892	256,230.00	
	<u> </u>	\$319,022.14
Total cost, exclusive of interest and current expenses		\$1,009,519.65
Interest and discount to Dec. 31, 1891	\$659,264.51	
Interest for 1892	<u>31,069.00</u>	
Total interest and discount to Dec. 31, 1892		\$690,333.51
Amount paid toward interest to Dec. 31, 1891	\$517,168.00	
Amount paid toward interest, 1892	<u>31,069.00</u>	\$548,237.00

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, transferred from water account	14,000.53
March 17, interest and discount transferred from water account	12,347.25
September 1, interest and discount trans- ferred from water account	22,361.74
water and hydrant rent, etc.	30,233.54
December 29, interest transferred	4,566.25
1875, December 18, one anvil sold	15.00
September 25, engine, crusher, and material sold	2,089.45

1875, water and hydrant rent, etc.	\$27,119.55
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
of James Baldwin & Co.	175.00
from the sale of grass	10.00
from Goodhue & Birnie	24.37
for old plank	1.00
for use of derrick	15.00
1883, received of G. G. Griffin	1.00
from sale of grass	20.00
for water and hydrant rent, etc.	73,437.20
1884, received of G. G. Griffin	1.00
for stone	5.00
from sale of grass	10.00
from pipe sold and labor	616.20
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
for water and hydrant rent	80,379.67
1886, received from G. G. Griffin	1.00
B. P. Kimball, for grass	5.00

1886, received	for wood	\$37.80
	for labor and pipe	282.43
	water and hydrant rent	74,803.76
1887, received	for labor and pipe	768.86
	of G. G. Griffin	1.00
	of C. C. Cole . . . . .	.50
	of B. P. Kimball, for grass	10.00
	of A. J. Crombie, for grass	5.00
	A. Goodwin, for poles	10.00
	of W. G. Brown	25.00
	of T. H. Risdon & Co., for freight for water and hydrant rent	15.11 79,682.70
1888, received	for labor and pipe	227.33
	of G. G. Griffin	1.00
	of George P. Clark	2.00
	of R. D. Wood & Co. (gear)	16.29
	for water and hydrant rent	85,397.20
1889, received	for labor and pipe	89.77
	of G. G. Griffin	1.00
	of B. P. Kimball, for grass	2.00
	of W. G. Brown, for rent	50.00
	of James Baldwin, for pipe	65.00
	of Mr. Clement for pipe . . . . .	.50
	for water and hydrant rent	86,492.19
1890, received	of G. G. Griffin (lease)	1.00
	of Fletcher Brown (lease)	1.00
	of George P. Clark (lease)	2.00
	of B. P. Kimball, for grass	2.00
	of W. G. Brown, for rent	36.00
	of N. W. Ellis & Co., for pipe	153.00
	of J. H. Dearborn, for pipe	35.40
	for water and hydrant rent	99,232.97
1891, received	for water and hydrant rent	76,313.24
	for labor and pipe sold	200.99
	of G. G. Griffin (lease)	1.00
	of Fletcher Brown (lease)	1.00
	of W. G. Brown (rent)	21.00

1891, received of Mr. Prescott (rent)	\$50.00.
of William Bryant (rent)	8.00
of B. P. Kimball (grass)	2.00
of G. W. Reed (grass)	5.00
of C. H. Patten (grass)	3.00
1892, received for water and hydrant rent	83,067.99
for labor and pipe sold	45.55
of T. C. Pratt, for house	100.00
for cement-lined pipe	94.25
of grange, for rent	50.00
of William Prescott, for barn	15.00
for potatoes	4.00
for cutting ice	10.00
of W. G. Brown, rent	21.00
of G. G. Griffin (lease)	1.00
of F. Brown (lease)	1.00
of H. N. Hall (use of pasture)	20.00
of C. F. Whittemore (grass)	4.00
of Charles Reed (grass)	4.00
of G. S. Patten (grass)	7.00
of G. G. Prescott (rent)	30.00
	<hr/>
Total received for water, etc.	\$1,294,699.70
Amount appropriated to date	640,000.00
	<hr/>
	\$1,934,699.70
Amount of bills approved to date	1,328,541.79
	<hr/>
	\$606,157.91
Amount transferred toward interest	548,237.00
	<hr/>
Amount on hand December 31, 1892	\$57,920.91

Uses for which Water is Supplied.

PUBLIC BUILDINGS.

1 Jail.	4 Cemeteries.
22 Churches.	1 Orphanage.

1 Court house.	1 Post-office.
7 Hose companies.	1 City library.
5 Fire-engines.	7 Banks.
2 Hook-and-ladder.	9 Hotels.
2 Opera houses.	1 Masonic Hall.
1 Convent.	1 Odd Fellows' Hall.
3 City hospitals.	1 Holly Tree Inn.
2 Old Ladies' Homes.	3 Halls.
1 Soldiers' monument.	25 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.	3 Shoe-shops.
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.

6 Fish.	3 Meat (wholesale).
12 Meat and fish.	

STABLES.

19 Livery.	892 Private.
1 Horse-railroad.	

OFFICES.

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

SHOPS.

39 Barber.	2 Currying.
9 Wheelwright.	6 Plumber and gas and water pipe.
12 Blacksmith.	10 Paint.
7 Carpenter.	1 Gunsmith.
1 Tinsmith.	

STORES.

4 Auction.	91 Grocery.
32 Drug.	5 Meal.
14 Jewelry.	3 Hardware.
1 Fur.	30 Boot and shoe.
3 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.
1 Wholesale grocer.	

SALOONS.

11 Dining.	93 Liquor.
6 Billiard.	

MISCELLANEOUS.

6 Club-rooms.	7 Greenhouses.
2 Bleacheries.	2 Band rooms.
21 Laundries.	18 Bakeries.
3 Icehouses.	2 Waste.
10 Photographers.	1 Business college.

WATER FIXTURES, ETC.

8,848 Families.	2,743 Sill-cocks.
130 Boarding-houses.	510 Fire-hydrants.
11,090 Faucets.	35 Stand-pipes.
1,983 Wash-bowls.	22 Watering-troughs.
4,392 Water-closets.	5 Drinking-fountains.
284 Wash-tubs.	2,090 Horses.
1,126 Bath-tubs.	107 Cattle.
148 Urinals.	1 Public urinal.

Material on hand.

PIPE.

3,700 feet 20 in.	1,940 feet 8 in.
4,500 feet 14 in.	5,800 feet 6 in.
2,440 feet 12 in.	3,480 feet 4 in.
3,900 feet 10 in.	

GATES.

3 20 in.	8 8 in.
4 12 in.	17 6 in.
3 10 in.	13 4 in.

BRANCHES.

8 double 6 on 12.	2 single 10 on 10.
1 double 6 on 10.	3 single 6 on 10.

22 double 6 on 8.	1 single 8 on 10.
2 double 8 on 8.	21 single 6 on 8.
3 double 4 on 8.	2 single 8 on 6.
2 double 4 on 6.	17 single 6 on 6.
7 double 6 on 6.	2 single 8 on 8.
5 double 4 on 4.	2 single 6 on 12.
1 single 12 on 14.	1 single 6 on 20.
2 single 6 on 14.	1 single 20 on 20.

SERVICE PIPE.

2 inch 450 feet.	1 inch 400 feet.
1½ inch 200 feet.	¾ inch 500 feet.
1¼ inch 300 feet.	

BENDS.

1 10 inch 1-8.	1 6 inch 1-4.
1 14 inch 1-8.	7 8 inch 1-4.
7 6 inch 1-8.	1 12 inch 1-8.
2 8 inch 1-8.	

CLAMP SLEEVES.

6 20 in.	19 10 in.
4 14 in.	60 6 in.
1 12 in.	12 4 in.
20 8 in.	

PLUGS.

2 14 in.	14 6 in.
1 12 in.	8 4 in.
7 8 in.	

WHOLE SLEEVES.

1 20 in.	15 8 in.
2 14 in.	6 10 in.
3 12 in.	21 4 in.
11 6 in.	

REDUCERS.

1 14 to 12.
10 8 to 6.
3 10 to 6.
3 8 to 6.

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

REPORT
OF THE
CHIEF ENGINEER OF FIRE DEPARTMENT.

REPORT
OF THE
CHIEF ENGINEER OF FIRE DEPARTMENT.

ENGINEERS' OFFICE, NO. 8 VINE STREET,

MANCHESTER, N. H., DEC. 31, 1892.

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 fourteenth annual report (it being the forty-seventh of this department) giving a complete record of the operations of the department for the year ending December 31, 1892, with a detailed statement of the fires and alarms that have been responded to by a portion or all of the force, together with the cause of such fires as far as the same have been ascertained, with the amount of insurance carried upon the property endangered, the amount of loss, and amount of insurance paid thereon.

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.

There have been 101 alarms during the year of 1892, divided as follows: 39 bell alarms and 62 still alarms, which have been responded to by different portions of the department. The "stills" have been conveyed to the several stations either by messenger or telephone, in most cases by the latter, and while a majority of these have been harmless chimney fires, some, if immediate attention had not been given, might have proved

disastrous fires. One bell alarm February 18 from box 53 was for the burning of the Catholic college in Goffstown; and one "still," December 6, was for a fire in Raymond, to which we sent one steamer and a hose wagon.

The amount of insurance carried upon property where fires have occurred is \$246,075; the amount of damage as assessed, \$116,210.05; and the insurance paid on losses, \$94,124.05; making the net loss uncovered by insurance, \$22,086. This year have occurred the greatest losses since the "noted fire of 1870," and while the aggregate loss is greatly in excess of any year since then, the net loss to the insured is only \$5,771 more than during the year 1891.

The Varick fire of February 7 was the occasion of the greatest loss, and while considerable comment has been made on this fire, not a word of explanation has ever been given why it was not discovered before it gained such headway, in a locality where so many officers are on duty at or in close vicinity.

A second alarm and telephone summoned the entire department, and the steamer belonging to the Amoskeag Manufacturing Company was tendered and brought into service, for which I desire to return thanks.

THE FORCE

consists of twenty-one permanent and one hundred and three call men, divided as follows:

- 1 chief engineer.
- 4 assistant engineers — call.
- 5 steamer companies of 14 men each — 14 permanent and 56 call.
- 2 hose companies of 12 men each — 2 permanent and 22 call.
- 1 hook-and-ladder company of 20 men — 2 permanent and 18 call.
- 1 chemical, 5 men — 2 permanent and 3 call, one of whom is detailed as driver of supply wagon.

THE BUILDINGS

that are occupied by the department are in a pretty fair condition and will not require any extraordinary repairs, except the quarters of the N. S. Bean Steamer Company, which will require alterations to adapt it to the new first size Amoskeag steamer, with a three-horse hitch, which is soon to take the place of the engine now in the service of this company, and that engine to be transferred to the new fire station just completed in McGregorville; also changes in the quarters of the Excelsior Hook-and-Ladder Company to adapt it to the new aerial truck when that arrives.

There seems to be some difficulty in the draft to the chimney at the Lake avenue station. With a strong westerly wind it is almost impossible to make the fire burn, and the entire building will be filled with coal gas. I have several times called the attention of committees to this matter, and it seems as though some means might be devised to remedy the evil.

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 hose 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, Devonshire Mills, Goffe's Falls.

1 exercise wagon (with pole, shafts, and three-horse hitch) at Central station.

1 horse hose carriage in the shops of the Manchester Locomotive Works, being repainted and undergoing repairs to put it in first-class serviceable condition, to be placed in the new station at McGregorville.

Additional apparatus ordered and soon to be delivered, is one first-class Amoskeag steamer, one Babcock aerial truck, both pieces expected the last of February or early in March, and one hook-and-ladder truck from the Abbott-Downing Co., of Concord, for McGregorville, expected about the first of July.

The new steamer is to take the name and place of the present Steamer No. 4, and that engine to be changed to Fulton Steamer No. 6, and placed in the new station at McGregorville.

The aerial truck is to be placed in the house of the present Excelsior Hook-and-Ladder truck, and it is proposed to put the latter one into Steamer Three's house on Lake avenue,—although I think it would be better to put a lighter truck there and keep the old one still on duty at the Central station, and both run by the same company; but as a matter of economy to the city it was thought best to make the above-mentioned transfer.

Three-horse hitch attachments have been placed on Steamers Nos. 1 and 2, and the Hook-and-Ladder truck, which will facilitate reaching the scene of fire with the heavy pieces of apparatus.

THE HORSES.

There are at present twenty-seven horses on duty and one spare, which is also on duty the majority of the time. During the year we have lost two by death,—one of the grays of Steamer No. 1, and the black one of the hose wagon of same company. Eight horses have been purchased,—three for the Hook-and-Ladder, three for Steamer No. 1, one for Steamer No. 2, and one for

Hose No. 1, and the bay horse of Steamer No. 5 exchanged for another. The horses purchased are not of that quality they should be for the prices paid, which has been enough in each case to get the *very best* the market affords for fire department use, particularly the one for Hose No. 1. While all the horses were "on trial" before they were bought, this one was paid for before it ever had a "fire run," and the first one it had fully showed his entire unfitness for the position.

Horses should be selected for adaptability as well as soundness, for the positions they are to fill; and a horse may be sound and wholly unfit for fire department service, and should possess a little more than the ordinary "horse-sense" to fit him for such a place, and be capable of much endurance.

The exercising of horses on horseback has been agitated, and I believe it impracticable, as we do not have fire duty enough to keep their muscles hard; and in my opinion they should be exercised daily with loads behind them, so that when the alarm comes, they may know the use of the collar and harness. If our alarms were as numerous as in Boston, where the service gives them work enough to keep them in condition, it would be different.

Two of the horses formerly in use by the Hook-and-Ladder truck have been transferred to the street department in District No. 2, and one to District No. 10, which should appear to the credit of this department's expenses, as well as the one sold from the Pennacook Hose Company.

THE FIRE-ALARM TELEGRAPH.

This branch of the service has been called upon to give thirty-nine alarms and one second alarm, and has performed its work in a satisfactory manner.

We have had the customary annoyance of cutting wires and opening circuits for moving buildings to contend with, thus leaving sections of the city unprotected in case of fire.

Quite a number of changes have been made by removal and transfer of wires during the year.

The main line circuits at the South End, through the Eddy from Amoskeag to McGregorville, and on Amherst street, east

end, have been changed to new poles, taking them out of the trees in each case, thus insuring better efficiency and less liability of breaking. New poles have also been set on Jane street, and the line across McGregor bridge has been rebuilt.

June 14 the lightning burned out the main line at box 61 and two instruments on the "tapper" circuits, and June 17 burned out the lighting instrument at Lake avenue engine house and five places on the tapper circuits.

One box, No. 82, has been placed upon the police station at the corner of Manchester and Chestnut streets, which for good reasons will probably be put in the place of box 7 and the latter take the place of box 82.

There are now about thirty-one miles of main line wires divided into seven circuits, and thirty-two miles of tapper lines divided into four circuits, requiring the services of four hundred and eleven jars of gravity battery.

THE ANNUAL PARADE.

The thirteenth annual parade occurred on Thursday, October 13, during Merchants' Week, and formed one of the leading attractions for that week, as was evident by the crowds upon our streets that witnessed it.

CASUALTIES.

Death has entered our ranks the first time for nine years, and taken our comrade,

HIRAM PERKINS YOUNG,

BORN IN BARRINGTON, N. H.,

MARCH 29, 1835.

DIED AT

MANCHESTER, N. H., JUNE 12, 1892.

Aged 57 years, 2 months, 14 days.

He was an active member of the Excelsior Hook-and-Ladder Company for upwards of twenty-seven years. His funeral was attended by the entire department on Wednesday, June 15.

In his death the department loses an active and zealous fireman, his family a kind and loving husband and father, and the city a just, upright, and honest man. Outside of his family none will miss him more than those of the department who have been associated with him officially and socially during these years.

At the Varick fire February 7, James Orrill, of the Hook-and-Ladder Company, shattered the bones of his ankle while lowering a ladder, confining him to his house five weeks.

April 11, Thomas J. Wyatt, of Steamer No. 1, ruptured the muscles of the leg while responding to an alarm from box 51, confining him to the house several weeks.

Wednesday evening, June 15, while Mrs. Marguerita Eismann was carrying a lighted lamp she fell, shattering the lamp, and was so severely burned that she died in a few hours.

Sunday morning, July 24, at the "laundry fire," No. 412 Belmont street, Mrs. Nancy Sargent was so overcome by heat and smoke that she fell back into the flames just as a ladder was raised to the roof of the piazza where she was standing.

At this fire Mr. L. M. Rollins, of Steamer No. 1, sustained injuries to his back that confined him to his house one week, and December 5, while at the Raymond fire, he stepped upon a nail, the result of which confined him two weeks.

THE FIREMEN'S RELIEF ASSOCIATION.

Organized in 1873, it has received donations yearly through the generosity of some of our citizens, as will be seen by the following list, for which I desire to return the thanks of the association.

TREASURER'S ACCOUNT.

Cash on hand at the annual meeting of February 9, 1892....	\$2,887.01
Interest on deposits.....	127.07
Membership fee	1.00
Frank P. Kimball, donation.....	100.00
Family of the late Hiram P. Young.....	25.00
Col. W. S. Pillsbury, Derry.....	25.00

A. P. Olzendam & Sons.....	\$25.00
The People's Insurance Co.....	25.00
Merchants' Week Committee.....	25.00
Mrs. Hannah F. Straw.....	15.00
Hon. Moody Currier.....	10.00
The P. C. Cheney Co.....	10.00
Rt. Rev. Bishop Bradley.....	10.00
G. B. and H. Chandler.....	10.00
Hon. E. J. Knowlton.....	10.00
A Friend.....	10.00
L. B. Bodwell & Co.....	10.00
Major Lewis Simons.....	10.00
Frank W. Fitts.....	10.00
Hon. H. D. Upton.....	10.00
Partridge Bros.....	10.00
Hon. D. B. Varney.....	5.00
Michael McCabe.....	5.00
Hon. L. P. Reynolds.....	5.00
Hon. Freeman Higgins.....	5.00
Charles L. Richardson.....	5.00
	<hr/>
	\$3,390.08

CONTRA.

Paid J. E. Merrill, secretary.....	\$25.00
J. E. Merrill, postals and printing.....	4.20
H. P. Young, funeral benefit.....	50.00
Lucius M. Rollins, two benefits.....	21.00
James Orrill, benefit.....	43.25
	<hr/>
	\$143.45
Balance in treasury.....	\$3,246.63

RECOMMENDATIONS.

I would recommend the purchase of 4,000 feet of rubber-lined fabric hose, as it will require 2,000 feet to equip the new Fulton Steamer Co. No. 6, and the balance should be in reserve.

I would recommend the selling or exchanging of the carts now belonging to the department and procuring supply wagons that can be used to exercise the horses with, as I do not consider it gives them proper exercise by riding them horseback, as previously referred to in this report.

The increasing tendency of erecting high buildings calls for some new methods of fire-fighting, and I would recommend to all putting up such structures that they supply each floor with stand-pipes and also have them upon the roofs. Waiting for a fire to burn down within reach of our apparatus is dangerous business.

There should be a supply wagon for exercising at the houses of Steamers Nos. 2, 3, and 5, and a lighter one at Hose No. 2. The one for Steamer No. 2 could be used in common with Steamer No. 6 and thus save our supply wagon from crossing the river on first alarm.

I would recommend the appointment of four call men for the hose carriage at Amoskeag, and with such volunteers as they now have they could do better service for that section, and keep the house and apparatus in better condition.

I would recommend the purchase of light, high-running hose pungs for use of each steamer and hose company during the deep snows in the winter.

I have several times called attention to the benefits of a protective department carrying blankets for covering goods to prevent damage by water, and I can see no reason, if sufficient encouragement be given our insurance underwriters, why we cannot maintain an insurance patrol or protective department, as in larger cities, thus saving them in many cases much damage by water.

With the few blankets carried by our department, several instances have occurred where, if a properly trained protective patrol had been present in the early stages of the fire, a large portion of the expense of maintaining such a company would have been saved.

I would recommend the appointment of an additional permanent man on the aerial truck. This seems a necessity as it can leave the house with no less than two men, the driver and tillerman, and some provision must be made for their meal hours.

PERSONAL.

By courtesy of the city councils I attended the convention of the National Association of Fire Engineers, at Louisville, Ky., October 4-7.

This meeting was quite fully attended, and the exhibits above the average. Papers upon important topics pertaining to the fire service were read and ably discussed by the leading fire and insurance men of the country, and the benefits derived from these meetings are many and varied.

Comment is often made and comparisons cited as to the expenses of our fire department of today and years gone by which are unfair unless the expense is compared with the percentage of population and valuation of then and now. We cannot expect to have all the appliances of a modern fire department without paying for it, nor keep up with the line of progression without cost, and the saying that "Expensive things are usually good, and good things are expensive," well applies to fire apparatus.

During the time I have held the position of chief engineer, I have endeavored to conduct the affairs in as economical a manner as the efficiency of the department would warrant, but when expenses are incurred by others over which I have no control, and if prices are paid which seem exorbitant, the board of engineers ought not to take the blame.

There has been a growing tendency for larger and heavier apparatus, — that means slower getting to a fire, — and much of our success in the past has been due to getting on to a fire in its earliest stages. While heavy apparatus is a good thing in its place, we should not be deprived of all our lighter apparatus that we can handle easily and quickly, even in the business sections of our city where most of our fires are likely to occur.

I hope that feature in the past, of combining fire stations with ward-rooms, has had its day, and we shall not see any more such in the future. I firmly believe it is detrimental to the department and not at all beneficial or pleasant to the voters.

In concluding, I desire to extend my thanks to his Honor Mayor Knowlton, to the members of the city councils, particularly to the committee on fire department, for the interest they have manifested in the welfare of the department and their exertions to promote its welfare, to my associate engineers and officers and men in the department for their faithfulness to duty and the promptness and obedience with which they have responded to every call.

The thanks of the department are tendered to Gen. Charles Williams for the continuous supply of coffee at fires.

Respectfully submitted.

THOMAS W. LANE,
Chief Engineer Fire Department.

**List of Fires and Alarms Responded to During 1892,
with Losses and Insurance.**

STILL. Tuesday, January 12, 6.45 P. M. Chimney fire at No. 164 Douglas street. Members of Steamer 2 responded. No damage.

BOX 71. Saturday, January 16, 5.20 A. M. A needless alarm given for a burning chimney at No. 136 Lake avenue. No damage. Box pulled by police officer. Companies responding, Steamers 1 and 3, Hose 1, Hook-and-Ladder 1, and Chemical.

BOX 71. Sunday, January 17, 6.05 A. M. Two-story dwelling house, No. 168 East Spruce street, owned by Mrs. Bridget Donovan, of Concord, and occupied by A. Du-Grenier and Joseph B. Monette. Caused by thawing out water with burning paper which ignited the sawdust packing. Box pulled by citizen. Companies responding: Steamers 3 and 4, Hose 1, Chemical and Hook-and-Ladder 1. Damage to building, \$1,600. Insurance, \$2,400. Insurance paid, \$1,600. Damage to contents, \$200. No insurance.

STILL. Tuesday, January 26, 2.40 P. M. Chimney fire, No. 27 Hollis street. No damage. Used "pony" extinguisher.

STILL. Tuesday, January 26, 5.45 P. M. Chimney fire in Fremont block, No. 239 Manchester street. No damage. Used "pony" extinguisher.

STILL. Tuesday, January 26, 8.55 P. M. Chimney fire in block owned by Joseph B. Clark estate, No. 25 Orange street. No damage. Used "pony" extinguisher.

STILL. Tuesday, January 26, 9.50 P. M. Chimney fire at No. 44 Church street. No damage. Used "pony" extinguisher.

BOX 5. Sunday, February 7, 2.51 A. M. Second alarm pulled immediately. Two-story block, Nos. 809-813 Elm street, owned by John B. Varick and Mrs. Georgietta Chamberlin, and occupied by John B. Varick Co. as hardware store. Several causes are assigned as the origin of the fire, such as defective flue, spontaneous combustion, etc., but I am of the opinion that electric wires are responsible. Damage to building, \$6,800.

Insurance, \$6,800. Damage to Varick's stock, \$48,000. Insurance, \$36,000. Insurance paid, \$36,000.

Mitchell & Truesdale's block adjoining. Damaged \$2,437.50. Insurance, \$5,000. Insurance paid, \$2,437.50. Truesdale's damage to stock, \$3,525. Insurance, \$8,000. Insurance paid, \$3,525. A. & W. S. Heath's stock damaged \$3,900. Insurance, \$4,500. Insurance paid, \$3,900. George Benoir and boarders, damage, \$1,000. No insurance.

Straw block, owned by Mrs. Hannah F. Straw. Damage to building, \$1,000. Insurance, \$15,000. Insurance paid, \$1,000. Manchester One Price Clothing Co. Damage to stock, by water, \$8,000. Insurance, \$40,000. Insurance paid, \$5,700. W. H. Mara, clothing store. Damage to stock, by water, \$1,150. Insurance, \$3,000. Insurance paid, \$1,150. Other tenants of block, damage, \$500. Insurance, \$3,000. Insurance paid, \$200.

Granite block, owned by John Cleworth. Damage to building, \$2,850. Insurance, \$15,000. Insurance paid, \$2,850. J. F. Dignam & Co.'s drugstore. Stock damaged \$1,900. Insurance, \$2,500. Insurance paid, \$1,250. Robert E. McKean, clothing store. Stock damaged, \$4,000. Insurance, \$6,000. Insurance paid, \$3,000.

Roger G. Sullivan, cigars and tobacco. Stock damaged, \$9,000. Insurance, \$15,000. Insurance paid, \$9,000.

Catholic Total Abstinence Society Hall. Damage to contents (by water), \$740. Insurance, \$800. Insurance paid, \$520.

Pembroke Block, Weston & Hill Company, dry goods and carpets. Stock damaged (by water in basement), \$3,000. Insurance, \$40,000. Insurance paid, \$2,800. Total damage, \$100,377.50. Insurance, \$196,125. Insurance paid, \$80,432.50.

Box 81. Saturday, February 13, 5.22 A. M. Chimney fire at No. 448 Chestnut street. No damage. Box pulled by officer. Companies responding, Steamer No. 4, Hose No. 1, Hook-and-Ladder No. 1, and Chemical.

STILL. Wednesday, February 17, 4.30 A. M. Chimney fire rear of No. 110 Amherst street. Chemical responded with "pony" extinguisher. No damage.

BOX 53. Thursday, February 18, 8.13 P. M. This box was pulled by a citizen of Ward 8 for a fire in Goffstown,— the burning of the Benedictine College, in process of building. Being within the limits of Goffstown no damage is given.

STILL. Monday, February 29, 3.05 P. M. Rekindling in the rubbish of the Varick fire of the 7th instant. No damage. Chemical responded.

STILL. Saturday, March 5, 11.55 A. M. Kettle of lard caught fire in W. D. Ladd & Co.'s bakery, No. 1208 Elm street. Chemical called. Fire extinguished before their arrival. No damage.

STILL. Monday, March 14, 12.37 P. M. Chimney fire No. 186 Manchester street. Used "pony" extinguisher. No damage.

STILL. Monday, March 14, 3.55 P. M. Fire in rubbish of the Varick fire. Chemical responded. No damage.

STILL. Tuesday, March 15, 1.10 A. M. Grass fire at foot of Pennacook street on railroad banking. Set by sparks from locomotive. Chemical responded. No damage.

BOX 8. Tuesday, March 22, 7.26 A. M. Two-story wooden tenement house Nos. 3 and 4 Elm east back street, owned by George H. Dorr, and occupied by F. F. Parker. Cause, sparks ignited shingles on roof, doing slight damage. Box pulled by citizen. Companies responding: Steamers Nos. 1, 4, and 5, Hose Nos. 1 and 2, Hook-and-Ladder No. 1, and Chemical. Damage to building, \$2.25. Insurance, \$600. Insurance paid, \$2.25. No damage to contents.

BOX 61. Sunday, April 3, 11.40 A. M. Grass fire on tannery lot in Bakersville, owned by Waterman Smith. No damage. Box pulled by citizen.

BOX 21. Sunday, April 3, 1.33 P. M. Chimney fire in Wiggin Block, corner of Pine street and Lake avenue, owned by Mrs. John Kearns. No damage. Box pulled by citizen.

STILL. Friday, April 8, 3 P. M. Brush fire in Riddle's Grove, 'Squog. No damage. Responded to by hose wagon of Steamer No. 2.

BOX 7. Friday, April 8, 9.16 P. M. Two-story wooden tenement block, No. 16 Church street, owned by John Cleworth and

occupied by Joseph Blanchard and others. The fire started in a closet in Blanchard's tenement. Probable cause, rats and matches. Extinguished by Chemical engine. Companies responding: Steamers Nos. 1, 4, and 5, Hose Nos. 1 and 2, Hook-and-Ladder, and Chemical. Box pulled by citizen. Damage to building, \$20. Insurance, \$500. Insurance paid, \$20. No damage to contents.

Box 4. Saturday, April 9, 11.28 A. M. Three and a half story wooden tenement block, No. 180 Chestnut street, owned by Job W. Hill and occupied by several families. Fire caught on roof from sparks from chimney. Companies responding: Steamers Nos. 3 and 4, Hose No. 1, Hook-and-Ladder No. 1, Chemical engine. Damage to building, \$8. Insurance, \$1,500. Insurance paid, \$8. Contents uninjured. Box pulled by officer.

Box 71. Sunday, April 10, 12.24 P. M. Cottage house No. 124 Auburn street, owned and occupied by Patrick Brannan. Slight fire in cellar, extinguished before arrival of department without damage. Companies responding: Steamers Nos. 1 and 3, Hose No. 1, Hook and Ladder No. 1, and Chemical engine. Box pulled by citizen.

STILL. Sunday, April 10, 7.30 P. M. Chimney fire at No. 30 Washington street. Chemical responded. No damage.

Box 51. Monday, April 11, 9.25 A. M. Woodshed, rear of block Nos. 190 and 192 Second street, owned by Joseph Burkhardt. Cause, children playing with matches. Companies responding: Steamers Nos. 1 and 2, Hose No. 1, Hook-and-Ladder No. 1, and Chemical. Damage to building, \$125. Damage to contents, \$25. No insurance on either. Box pulled by citizen.

STILL. Monday, April 11, 1.45 P. M. Brush fire on Bedford road. Hose wagon of Steamer No. 2 responded. No damage.

Box 4. Wednesday, April 13, 1.50 A. M. Four-story brick block No. 631 Elm street, owned by Daniel Connor and occupied by Joseph Murray as boot and shoe store. Cause of fire unknown. Companies responding: Steamers No. 3 and 4, Hose No. 1, Hook-and-Ladder No. 1, and Chemical. Box pulled by officer. Damage to building, \$100. No insurance. Damage to stock, \$925. Insurance, \$2,000. Insurance paid, \$925.

STILL. Sunday, April 17, 2.15 P. M. Brush fire on McGregor hill. Responded to by Steamer Co. No. 2 with hose wagon. No damage.

Box 56. Monday, April 18, 9.09 P. M. Brush fire on Mast road near Goffstown line. Needless alarm. Box pulled by watchman at Baldwin's bobbin shop.

STILL. Saturday, April 23, 4.07 P. M. Burning chimney at No. 286 Pine street, in block owned by Thomas Corcoran. No damage. Used "pony" extinguisher.

STILL. Saturday, April 23, 7.25 P. M. Dime Museum in Stark Block, No. 1010 Elm street. Kerosene lamp overturned. Damage, \$10. No insurance. Chemical responded.

STILL. Sunday, April 24, 1.15 P. M. Three-story wooden tenement block No. 611 Elm street, owned by Daniel Connor. Overheated chimney ignited woodwork, causing slight damage. Damage, \$6. No insurance. Chemical responded.

STILL. Tuesday, April 26, 2.40 P. M. Brush fire north Union street and Hooksett road. Chemical responded.

Box 112. Tuesday, April 26, 4.15 P. M. While the chemical engine was at a hydrant filling its tanks after about an hour and a half's work on the brush fire mentioned above, the "Tilton cottage" owned by Weston, Harvey & Upton, that had been moved to the eastern part of the Tilton field, on Walnut street extension, took fire from the burning grass, and was nearly destroyed. It was unoccupied. Damage to building, \$800. Insurance, \$500. Insurance paid, \$500. Companies responding: Steamers Nos. 1 and 5. Hose Nos. 1 and 2, Hook-and-Ladder, and Chemical. Box pulled by citizen.

STILL. Wednesday, April 27, 10.45 A. M. Brush fire on Smyth road. No damage. Chemical responded.

STILL. Wednesday, April 27, 12.50 P. M. Chimney fire at No. 73 Amherst street. No damage. Chemical responded.

STILL. Thursday, April 28, 1.45 P. M. Burning chimney at No. 380 Granite street. Responded to by members of Steamer No. 2. No damage. Used two charges of "pony" extinguisher.

STILL. Saturday, April 30, 10.20 A. M. Burning chimney at No. 52 Lake avenue. No damage. Used "pony" extinguisher.

Box 71. Tuesday, May 10, 2.32 P. M. Three-story tenement block, No. 180 Chestnut street, owned by Griffin Bros. and occupied by several families. Fire was discovered in one of the tenements on third floor. Cause unknown. Damage to building, \$14. Insurance, \$1,800. Insurance paid, \$14. Damage to contents, \$15. No insurance. Companies responding: Steamers Nos. 1 and 3, Hose 1, Hook-and-Ladder, and Chemical. Box pulled by citizen.

STILL. Friday, May 13, 1.10 P. M. Burning chimney at No. 156 East Spruce street. Chemical responded. Used "pony" extinguisher. No damage.

STILL. Saturday, May 14, 2.02 P. M. Two-story wooden block, No. 16 Church street, owned by John Cleworth and occupied by Joseph Blanchard. Boy set fire to some rags in a closet. Chemical responded. Fire extinguished before arrival of engine. No damage.

STILL. Wednesday, May 18, 10.48 A. M. In railroad yard below gas works. Fire in a pile of ties used for filling over a culvert. Pennacook hose carriage with detail of men laid 1,050 feet of hose, and after about two hours of work fire was extinguished without any material damage, as the ties were uninjured for the purposes used.

STILL. Wednesday, May 18, 12 M. Burning chimney at Nos. 11 and 12 Pearl street. Used "pony" extinguisher. No damage.

Box 8. Sunday, May 29, 8.42 P. M. Two-and-one-half-story house, No. 30 Orange street, occupied by James D. Sullivan. Feather-bed fire. No damage. Box pulled by citizen.

Box 21. Monday, May 30, 8.05 P. M. Three-story brick block, No. 101 Manchester street, owned by Catherine Kerin and occupied by Robitaille Bros. as a grocery store. Cause, lamp explosion in basement, where fire was wholly confined, but stock in store above was somewhat damaged by smoke. Damage to building, \$87.50. Insurance, \$3,000. Insurance paid, \$87.50. Damage to contents, \$329.50. Insurance, \$800. Insurance paid, \$329.50. Box pulled by officer.

STILL. Wednesday, June 1, 12.20 P. M. Burning chimney

at No. 190 Lake avenue. Chemical responded. No damage. Used "pony" extinguisher.

BOX 7. Saturday, June 4, 8.14 P. M. Three-story brick block. Nos. 1105-1107 Elm street, owned by E. K. Rowell and occupied by Alfred De Moulpied as a furniture store. The fire originated in a closet under the roof from some unknown cause, and was confined to that locality. Extinguished with chemical engine. Companies responding: Steamers Nos. 1, 4, and 5, Hose Nos. 1 and 2, Hook-and-Ladder, and Chemical. Damage to building, \$300. No insurance. Damage to contents, \$439.10. Insurance, \$3,600. Insurance paid, \$439.10. Box pulled by citizen.

STILL. Sunday, June 5, 3.30 A. M. Chemical called to Moulpied's store, as above, for slight fire smoldering in roof timbers. Extinguished without further damage.

BOX 212. Monday, June 6, 1.51 A. M. Two-and-one-half-story dwelling, No. 236 Jewett street, owned by P. O. Woodman and occupied by Mrs. W. E. Richardson. Fire originated from some unknown cause in some excelsior packing in basement, and was extinguished without any material damage. Box pulled by citizen.

STILL. Saturday, June 11, 12.35 P. M. False alarm from Kimball Bros.' shoe-shop caused by unadjusted thermostat. Responded to by hose carriage of Steamer No. 3.

BOX 21. Saturday, June 11, 8.15 P. M. While filling a lighted kerosene lamp in tenement of Henri Millot, rear of 83 Manchester street, the oil ignited causing alarm. No damage. Companies responding: Steamers Nos. 3 and 4, Hose No. 1, Hook-and-Ladder, and Chemical. Box pulled by citizen.

STILL. Sunday, June 12, 11.20 A. M. False alarm from Kimball Bros.' shoe-shop, caused by an unadjusted thermostat. Hose carriage of Steamer No. 3 responded.

BOX 51. Wednesday, June 15, 8.47 P. M. Breaking of kerosene lamp in the hands of Mrs. Marguerita Eismann burned her in such a manner that death resulted in a few hours. No damage to the building. Companies responding: Steamer No. 2, Hose No. 1, Hook-and-Ladder, and Chemical. Box pulled by citizen.

BOX 18. Saturday, June 18, 8.58 A. M. Two-and-one-half-story dwelling at No. 310 Central street, owned by D. M. K. Phillips and occupied by him and Frank B. Stevens. Cause, explosion of oil stove. Damage to building, \$275. Insurance, \$4,000. Insurance paid, \$275. Damage to contents, \$70. Insurance, \$500. Insurance paid, \$75. Box pulled by citizen.

BOX 5. Friday, June 24, 3.01 P. M. Three-story brick block, No. 820 Elm street, owned by Mrs. Herman Foster and occupied by Charles A. Hoitt & Co. as furniture store. The fire originated in a closet among some excelsior packing, probably by lighted match being thrown in from sidewalk. No material damage. Companies responding: Steamers Nos. 1 and 3, Hose No. 1, Hook-and-Ladder, and Chemical. Box pulled by citizen.

STILL. Wednesday, June 29, 9.15 P. M. Engine building for hoisting-engine, belonging to Head & Dowst Co., at corner of Elm and Mechanic streets. Cause, spontaneous combustion from oily waste. Damage, \$10. No insurance. Extinguished by Chemical engine.

STILL. Monday, July 4, 11.10 A. M. While Mrs. Everett L. Caswell, at 397 Manchester street, was filling gasoline stove the oil ignited burning her hands quite severely. No other damage. Hose carriage from Steamer No. 3 responded.

STILL. Monday, July 4, 12.03 P. M. A firecracker on the roof of F. P. Danforth's buildings at No. 549 Lake avenue caused a slight fire. Hose carriage of Steamer No. 3 responded.

STILL. Sunday, July 10, 11.08 A. M. False alarm from Kimball Bros.' shoe-shop caused by an unadjusted thermostat. Hose carriage from Steamer No. 3 responded.

BOX 21. Tuesday, July 12, 5.25 P. M. Lumber shed at corner of Merrimack and Union streets, owned and occupied by John H. Maynard. Cause, children playing with matches. Damage to contents, \$5. No insurance. Box pulled by citizen.

BOX 45. Tuesday, July 19, 4.35 P. M. One-story wooden building, corner Franklin and West Auburn streets, owned by S. C. Forsaith Machine Co. and occupied by L. H. Josselyn & Co. as a furniture manufactory. Cause, drunken visitor throwing lighted match into varnish. A line of hose from the S. C.

Forsaitth Co., before the arrival of the department, did good service and prevented much damage. Damage to building, \$200. Insurance, \$1,500. Insurance paid, \$200. Damage to contents, \$294.39. Insurance, \$4,500. Insurance paid, \$294.39. Box pulled by citizen.

Box 26. Friday, July 22, 9.55 A. M. Explosion of kerosene stove in tenement No. 85 Arlington street occupied by Mrs. Demers, caused an alarm, without any damage. Box pulled by citizen.

Box 24. Sunday, July 24, 8.25 A. M. Three-story wooden building, No. 412 Belmont street, owned by Melvin Badger and occupied by Charles W. Goodwin as residence and laundry. Cause, Alice Hazen filling a gasoline stove while burning, followed by an explosion of can of gasoline near by. The flames spread so rapidly as to prevent the removal of any contents of the building. The occupants, except Mrs. Nancy Sargent, escaped. She was so overcome with heat and smoke that, as a ladder was raised to her assistance, she fell back into the flames. The cottage house a few feet south, owned and occupied by Mrs. Philena Merrill, was somewhat damaged by fire and water. Damage to Badger's house, \$3,000. Insurance, \$2,700. Insurance paid, \$2,700. Damage to contents, \$600. No insurance. Damage to Mrs. Merrill's house, \$250. Insurance, \$1,100. Insurance paid, \$250. No damage to contents. Box pulled by a member of the department.

STILL. Sunday, July 24, 11.10 A. M. Brush fire, rear of Austin, Flint & Day Co.'s works. No damage. Hose carriage of Steamer No. 3 responded.

STILL. Saturday, July 30, 9.43 A. M. Stable in rear of No. 203 Merrimack street, owned by John H. Maynard. Chemical responded. Extinguished without damage before arrival of engine.

STILL. Thursday, August 4, 9.45 P. M. Two-and-one-half-story house, No. 530 Maple street, owned and occupied by James K. Goodwin. The fire originated from some unknown cause in the L part. Damage to building, \$15. Insurance, \$2,500. Insurance paid, \$15. Responded to by Hose No. 2.

Box. 5. Thursday, August 11, 3.40 A. M. The Elm House, No. 742 Elm street, owned by Dr. J. F. Brown and D. F. Straw, occupied by M. S. Chamberlin. Cause, mattress on the roof of the L part caught, probably from a cigar stub. Used "pony" extinguisher. No damage. Companies responding: Steamers Nos. 1, 3, 4, Hose No. 1, Hook-and-Ladder, with three-horse hitch for first time, and Chemical engine. Box pulled by Officer Lovejoy.

Box 81. Tuesday, August 16, 11.40 A. M. Two-and-half-story tenement block, Nos. 65-69 Amherst street, owned by William T. Stevens and Mrs. Frank E. Boyd, and occupied by several families. Cause, overheated chimney. Damage to Stevens building, \$27.11. Insurance, \$800. Insurance paid, \$27.11. Companies responding: Steamers Nos. 1 and 4, Hose No. 1, Hook-and-Ladder, and Chemical. Box pulled by member of department.

Box 4. Saturday, September 3, 10.55 P. M. Burning chimney rear of No. 46 Auburn street. No damage. Needless alarm. Box pulled by citizen.

Box 7. Tuesday, September 6, 7.58 P. M. Barn in rear of No. 27 Birch street, owned by William M. Lane, and occupied by Michael Labreche. Cause, overturned lantern. Companies responding: Steamers Nos. 1, 4, 5, Hose Nos. 1, 2, Hook-and-Ladder, and Chemical. Damage to building, \$200. Insurance, \$200. Insurance paid, \$200. Damage to contents, \$75. Insurance, \$500. Insurance paid, \$75. Box pulled by citizen.

STILL. Friday, September 16, 5.04 P. M. Smoking chimney at Stickney's leather store, 1064-1068 Elm street, caused needless alarm. Chemical responded.

STILL. Thursday, September 29, 12.45 A. M. A small one-story building, corner South Main and Log streets, owned by Walter Tirrell and occupied by Albert E. Abel & Co. as boot and shoe store. Cause, carelessness from overheated stove. Damage to building, \$75. No insurance. Damage to stock, \$600. Insurance, \$900. Insurance paid, \$600. Responded to by Assistant Engineer Manning and members of Steamer No. 2 with hose wagon.

STILL. Tuesday, October 4, 9.10 P. M. Bake shop of Manchester Tea Store, rear of 39 Amherst street. Cause, hot baking tins ignited paper. No damage. Chemical responded.

BOX 7. Friday, October 7, 10.45 P. M. Rubbish in rear of No. 1073 Elm street. No damage. Needless alarm. Companies responding: Steamers Nos. 1, 4, 5, Hose Nos. 1, 2, Hook-and-Ladder, and Chemical. Box pulled by citizen.

BOX 315. Tuesday, October 11, 10.15 P. M. Two-story wooden building, Nos. 156-162 Front street, Amoskeag, owned and occupied by James R. Ferson as a carriage manufactory. Cause supposed to be from spontaneous combustion. Damage to building, \$200. Insurance, \$1,500. Insurance paid, \$200. Damage to contents, \$250. Insurance, \$1,000. Insurance paid, \$250. Companies responding: Steamer No. 5, Hose No. 1, Hook-and-Ladder, and Chemical. Box pulled by citizen.

STILL. Sunday, October 23, 9.07 P. M. Burning chimney in Riddle building, No. 885 Elm street. Chemical responded. No damage. Used "pony" extinguisher.

BOX 21. Tuesday, October 25, 7.50 P. M. Three-story wooden tenement block, No. 334 Pine street, owned by Storer Nason and occupied by W. E. Woodward. Cause, overheated stove set fire to paper. Damage to building, \$16.70. Insurance, \$800. Insurance paid, \$16.70. No damage to contents. Companies responding: Steamers Nos. 3, 4, Hose No. 1, Hook-and-Ladder, and Chemical. Box pulled by citizen.

STILL. Wednesday, October 26, 1.50 P. M. Slight fire in Thorp's block, corner Granite and West streets. No damage. Hose carriage of Steamer No. 2 responded.

BOX 8. Tuesday, November 1, 10.31 A. M. Two-story wooden tenement block, No. 67 Kidder street, owned by Amoskeag Corporation and occupied by Dennis Magner. Cause, children playing with matches. Barrel shavings consumed. No other damage. Companies responding: Steamers Nos. 1, 4, 5, Hose Nos. 1, 2, Hook-and-Ladder, and Chemical. Box pulled by citizen.

STILL. Wednesday, November 2, 12.25 P. M. Burning chimney in residence of Gov. J. A. Weston, No. 621 Maple street.

No damage. Chemical responded. Used three charges with "pony" extinguisher.

STILL. Saturday, November 5, 8.35 P. M. Burning chimney at No. 124 Central street. No damage. Used "pony" extinguisher.

STILL. Saturday, November 5, 9.10 P. M. Burning chimney at No. 210 Lake avenue. No damage. Used "pony" extinguisher.

STILL. Sunday, November 13, 6 P. M. Four-story brick block, owned by Johnson heirs. Cause, lamp explosion in room 16, occupied by D. S. Cotting. Chemical responded but fire extinguished with slight damage before arrival of engine.

BOX 314. Sunday, November 13, 6.54 P. M. Cottage house, No. 2 Mill street, Amoskeag, leased by the P. C. Cheney Co. and occupied by John Lane. Cause, overturned kerosene lamp. Damage to building, \$50. No insurance. No damage to contents.

BOX 52. Thursday, November 24, 10.35 P. M. Three-story wooden building, Nos. 17-21 South Main street, owned by Daniel and Michael Connor and occupied by Moulton & Lamprey as Hotel Merrimack. A drunken guest set fire to a bed in room No. 1, and came near losing his life thereby. Damage to building estimated at \$200. No insurance. Damage to Moulton & Lamprey's contents, \$200. No insurance. Damage to Henry Herbert's barber shop, \$65. Insurance, \$200. Insurance paid, \$65. Box pulled by officer.

STILL. Monday, November 28, 12.43 P. M. Chimney fire at L. W. Ray's, No. 212 Lake avenue. No damage. Used "pony" extinguisher.

BOX 82. Saturday, December 3, 1.13 A. M. Two two-story wooden buildings owned by Hiram Hill and Dodge heirs, occupied by the Novelty Advertising Company and the Hanover Street Laundry. The fire started in rear part of basement of Novelty Co., probably from defective chimney. Damage to Hill's building, \$500. Insurance, \$500. Insurance paid, \$500. Damage to Dodge's building, \$800. Insurance, \$2,200. Insurance paid, \$800. Damage to Novelty Co., \$2,813. Insurance,

\$3,000. Insurance paid, \$2,813. Damage to Laundry Co., \$300. Insurance, \$375. Insurance paid, \$200. Box pulled by officer.

STILL. Tuesday, December 6 (Raymond). A fire broke out in Raymond last evening, and a little past twelve this morning word was telephoned for help. Took Steamer No. 1 with hose wagon and twenty-five men and went by special train, and rendered material aid, which was appreciated by the New Hampshire Insurance Co. of this city by their sending check of \$5 to each member of this department that went down.

STILL. Saturday, December 10, 2.45 P. M. Slight fire in People's Market, No. 335 Granite street. Steamer Co. No. 2 responded with "pony" extinguisher.

STILL. Tuesday, December 13, 11.30 P. M. Word was telephoned from Goffe's Falls of fire in James Cheney's barn, about five and a half miles from City Hall. Took Steamer No. 4 with hose wagon and delegation of men. The barn and contents were entirely consumed. Damage to barn, \$400. Insurance, \$100. Insurance paid, \$100. Damage to contents, \$700. Insurance, \$100. Insurance paid, \$100.

STILL. Wednesday, December 21, 4.02 P. M. Kimball Bros.' Shoeshop, Hallsville. Cause, pail of cement accidentally caught fire. Steamer No. 3 and hose carriage responded. Extinguished before arrival of steamer. No damage.

STILL. Wednesday, December 21, 6.04 P. M. Burning chimney at No. 127 Merrimack street. No damage. Used "pony" extinguisher.

STILL. Saturday, December 24, 5.40 A. M. Burning chimney at No. 170 Lake avenue. No damage. Chemical called.

STILL. Saturday, December 24, 4.40 P. M. Burning chimney at No. 107 Amherst street. No damage. Chemical responded.

STILL. Saturday, December 24, 5.35 P. M. Burning chimney at No. 61 Cedar street. No damage. Used "pony" extinguisher.

STILL. Saturday, December 24, 9.45 P. M. Burning chimney at James B. Scott's, No. 554 Lake avenue. Hose carriage of Steamer No. 3 responded. No damage.

STILL. Monday, December 26, 5.45 P. M. Burning chimney at No. 341 Chestnut street. No damage. Used "pony" extinguisher.

STILL. Tuesday, December 27, 7.05 A. M. Three-story tenement house No. 207 Cedar street, owned by Mary Flynn and occupied by Hannah Flynn. Cause, overheated chimney set fire to "header" near chimney. Damage to building, \$15. Insurance, \$2,500. Insurance paid, \$15.

STILL. Tuesday, December 27, 6.40 P. M. Burning chimney at No. 60 Cedar street. No damage. Used "pony" extinguisher.

STILL. Tuesday, December 27, 7.55 P. M. Burning chimney at No. 169 Laurel street, Clark M. Bailey's. No damage. Used "pony" extinguisher.

STILL. Tuesday, December 27, 10.50 P. M. Bake-shop of Manchester Tea Store, rear of 39 Amherst street. Slight fire under sink. No damage. Chemical responded.

Number of bell alarms	39
Number of still alarms	62
Total	<u>101</u>
Aggregate losses for 1892	\$116,210.05
Amount of insurance paid	<u>94,124.05</u>
Net loss above amount paid	\$22,086.00

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 2.	Hook-and-ladder.	Chemical engine.
3.....	1	2	3	1	3	1	3	1	1
4.....	1	2	2	1	3	1	2	1	1
5.....	1	2	2	1	3	1	2	1	1
6.....	1	1	3	1	2	1	1	1	1
7.....	1	1	3	1	2	1	1	1	1
8.....	1	1	3	1	2	1	1	1	1
9.....	1	1	3	1	1	1	1	1	1
12.....	1	3	3	1	1	1	1	1	1
13.....	1	2	3	1	1	1	1	1	1
14.....	1	2	3	1	1	1	1	1	1
15.....	1	1	3	1	1	1	1	1	1
16.....	1	3	3	1	1	1	1	1	1
17.....	1	2	3	1	1	1	1	1	1
18.....	1	2	3	1	1	1	1	1	1
21.....	1	2	3	1	3	1	2	1	1
23.....	1	2	3	1	1	1	2	1	1
24.....	1	3	3	1	3	1	2	1	1
25.....	1	2	3	1	3	1	2	1	1
26.....	1	2	3	1	3	1	2	1	1
27.....	1	2	3	1	3	1	2	1	1
31.....	1	2	2	1	1	1	2	1	1
32.....	1	2	3	1	1	1	2	1	1
34.....	1	1	1	1	1	1	1	1	1
35.....	1	1	1	1	1	1	1	1	1
36.....	1	1	1	1	2	1	1	1	1
41.....	1	1	1	1	1	1	1	1	1
42.....	1	1	1	1	1	1	1	1	1
43.....	1	2	1	1	2	1	1	1	1
45.....	1	1	1	1	3	1	2	1	1
51.....	2	3	1	2	3	1	3	1	1
52.....	1	3	1	2	3	1	3	1	1
53.....	2	3	1	2	3	1	3	1	1
54.....	2	3*	1	3	3	1	3	1	1
56.....	2	3*	1	2	3	1	3	1	1
61.....	1	3	3	1	3	1	3	1	1
62.....	1	3*	3	1	3	1	3	1	1
71.....	1	2	3	1	3	1	2	1	1
72.....	1	2	3	1	3	1	2	1	1
73.....	1	2	3	1	3	1	2	1	1
81.....	1	1	3	2	2	1	2	1	1
82.....	1	1	3	2	1	1	1	1	1
112.....	1	2	3	3	1	1	1	1	1
113.....	1	2	3	3	1	1	1	1	1
114.....	1	2	3	3	1	1	1	1	1
212.....	1	3*	3	1	3	1	2	1	1
213.....	1	2*	3	1	3	1	3	1	1
312.....	1	2	1	3	3	1	3	1	1
313.....	1	2	1	3	2	1	3	1	1
314.....	1	2*	3	3	1	1	2	1	1
315.....	2	3*	3	3	1	1	3	1	1
321.....	1	2	1	3	3	1	3	1	1
511.....	2	2	1	3	3	1	3	1	1
513.....	2	3*	1	3	3	1	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, DeCourcy, Holland & Marshall, and Charles H. Hutchinson's shop.

No. 4. Corner of Spruce and Elm streets. Keys at Hotel Oxford, 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 Tebbets & Soule's and Currier's drug-stores, and Manchester House.

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

No. 7. Police station, corner of Manchester and Chestnut streets. Keys at city marshal's office, and with all police officers.

No. 8. Corner Elm and Hollis streets. Keys at Smith & Co.'s and Colby's drug stores, Partridge Bros.' grain store, and E. V. Rowe's residence, 1261 Elm street.

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 Mrs. W. Ireland, Mrs. N. L. Hardy, Mrs. George W. Riddle, 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 Mrs. 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, George 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, Amory Mills, Langdon Mills watch-rooms.

No. 32. Langdon Mills block, corner of Canal and Brook streets. Keys at the Amoskeag Paper Company'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 and S. C. Forsaith Co.'s 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 store, Merrimack House, and Steamer No. 2 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. Baldwin's bobbin shop. Keys at Baldwin's office and residences of J. C. Smith, E. P. Littlefield, and with watchman at works.

No. 61. Corner of River road and Hancock street, Bakersville. Keys at Mary Stack's saloon, True W. Jones Co.'s brewery, and residence of H. F. Dillingham.

No. 62. Gerrish Wool and Leather Co.'s, River road. Keys at tannery and residence of Edwin Kennedy.

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

No. 72. Corner of Park and Lincoln streets. Keys at residences of the late Austin Jenkins, James Briggs, and Clarence D. Palmer.

No. 73. Corner of Beech and Cedar streets. Keys at residences of Rev. J. A. Chevalier and Timothy Carr.

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

No. 82. Old City Hotel, corner Lowell and Elm east back streets. Keys at Higgins Bros. Co.'s, Lowell-street stable, Nichols's stable, and Eames Bros.' drug store.

No. 112. Corner of Sagamore and Union streets. Keys at residences of W. T. Stevens, W. A. Clarkson, and Charles F. Chase.

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. Shoeshop, 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 (309 Main street), Thomas Bolton, and gate of No. 11 mill.

No. 313. Corner of Amory and Main streets. Keys at residences of Allen Dean and Lawrence M. Connor, Bouthillier & Gingras's drug store, Miville & Co.'s drug store, and gate of No. 11 mill.

No. 314. P. C. Cheney Company's paper-mill. Keys at office, Randall & Co.'s store, and Independent Hose house.

No. 315. Old Brick Store at 'Skeag. Keys at Flanders's store, Randall & Co.'s store, Independent Hose house, and Robinson's residence.

No. 321. Corner Beauport and Wayne streets. Keys at Holy Angels' Convent, the Brothers' School, and residences of E. H. Doherty and Rev. Father Hévey.

No. 511. Corner of Douglas and Green streets. Keys at residences of Amelia Davis, William A. Tufts, and James Kearnes.

No. 513. Corner of Milford and Carroll streets. Keys at residences of J. W. Abell, James Ward, and Mrs. Elizabeth Ward.

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

The true time 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
Assistant Engineer Whitney's office	39-3
Fire King Steamer No. 2	59-3
Merrimack Steamer No. 3	140-3
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 house.

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, 2½ seconds apart, repeated three times. Box 212, two blows, pause of 6½ 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 and middle 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.

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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, 511 ; on *second alarm*, to all other boxes.

SECOND RUN. On *first alarm*, to boxes 6, 8, 15, 34, 35, 36, 41, 42, 45, 81, 82 ; on *second alarm*, to boxes 3, 4, 5, 7, 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 ; 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, 7, 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, 8, 15, 31, 34, 35, 36, 51, 52, 53, 56, 81, 82 ; 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, 8, 15, 34, 35, 36, 41, 42, 45, 81, 82; on *second alarm*, to boxes 3, 4, 5, 7, 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; on *third alarm*, to all other boxes.

6. Gen. Stark Steamer Co. No. 5 will report for duty on *first alarm* to boxes 8, 9, 12, 13, 14, 15, 31, 32, 34, 35, 41, 82, 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 *first alarm*, to boxes 6, 8, 13, 14, 15, 16, 17, 18, 24, 25, 26, 27, 34, 35, 36, 41, 42, 82, 112, 113, 114; on *second alarm*, to boxes 4, 5, 7, 9, 12, 21, 23, 31, 32, 43, 45, 71, 72, 73, 81, 314; 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 other 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, and the return to quarters of engines on duty at the fire.

13. Engineers of steamers will not run over eighty-pound water-pressure, except when orders are received from a member of the board of engineers or the officer in command of the company.

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

WHISTLE SIGNALS.

The following code of signals will be observed by members of the department :

FOR CAPTAIN, or officer in command of company, one long whistle.

FOR COAL, two long whistles followed by as many short whistles as indicate the number of the engine.

TO LIMBER UP, three long whistles.

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	400.00
3 gray horses for steamer	685.00
1 gray horse for hose-wagon	225.00
4 swinging harnesses	200.00
1 pair double harnesses (for street work)	50.00
1 single harness (for street work)	40.00
2,000 feet fabric hose	1,200 00
100 feet three-inch leather hose	50.00
1 double cart	75.00
1 single cart	75.00
1 sled	40.00
Stable fixtures, blankets, etc.	60.00
Tools, furniture, and fixtures	200.00
Firemen's suits and badges	200.00
Total amount	<u>\$7,500.00</u>

Fire King Steam Fire-Engine Company No. 2.

LOCATED AT NORTH MAIN STREET, 'SQUOG.

1 second-size Amoskeag steamer	\$4,000.00
1 combination hose-wagon	600.00
3 bay horses for steamer	617.00
1 pair gray horses for combination	534.00
3 street harnesses, 2 at \$40, 1 at \$20	100.00
5 swinging harnesses	250.00
1 single cart	75.00
1 two-horse cart	60.00
1 double sled	60.00
1 single sled	40.00

2,500 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
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Total amount	\$8,512.00

Merrimack Steam Fire-Engine Company No. 3.

LOCATED ON LAKE AVENUE, CORNER MASSABESIC STREET.

1 second-size Amoskeag steamer	\$3,500.00
1 pair black horses	417.00
1 single horse	150.00
3 street harnesses, 2 at \$50, 1 at \$40	140.00
3 swinging harnesses	150.00
1 four-wheeled Amoskeag hose-carriage	600.00
1 double cart	125.00
1 single cart	40.00
1 single sled	40.00
2,500 feet fabric hose	1,500.00
Stable fixtures, blankets, etc.	50.00
Beds, bedding, carpets, hall furniture, etc.	575.00
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Total amount	\$7,287.00

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	266.00
1 horse for hose-wagon	133.00
1 pair street harnesses	40.00
3 swinging harnesses	150.00

1,550 feet fabric hose	\$1,000.00
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	\$5,989.00

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	534.00
1 pair gray horses	400.00
2 double carts	150.00
2 double sleds	100.00
2 pairs swinging harnesses	200.00
2 pairs street harnesses	150.00
2,500 feet fabric hose	1,500.00
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	\$8,039.00

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	534.00
2 single harnesses	70.00
1 single cart	40.00
1 single sled	40.00
1 hose sled	20.00
2,500 feet fabric hose	1,500.00
1,000 feet leather hose	500.00
Furniture and fixtures	200.00
Stable fixtures and blankets	50.00
Firemen's suits and badges	175.00
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Total amount	\$3,729.00

Massabesic Hose Company No. 2.

LOCATED ON MAPLE STREET, CORNER EAST HIGH.

1 four-wheeled Amoskeag hose carriage	\$600.00
1 bay horse	150.00
1 street harness	30.00
1 swinging harness	50.00
1 single cart	50.00
1 single sled	30.00
2,000 feet fabric hose	1,200.00
2,000 feet leather hose	800.00
Furniture and fixtures	100.00
Firemen's suits and badges	175.00
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Total amount	\$3,185.00

Excelsior Hook-and-Ladder Company No. 1.

LOCATED ON VINE STREET.

1 hook-and-ladder truck	\$1,700.00
1 reserve truck at Lake avenue station	200.00
3 horses	800.00
1 pair exercise harnesses	30.00
3 swinging harnesses	150.00
2 extra Bangor extension ladders	360.00
7 rubber blanket covers	168.00
Furniture and fixtures	200.00
Bed, bedding, and furniture	40.00
Stable fixtures and blankets	50.00
Firemen's suits and badges	280.00
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Total amount	\$3,978.00

Chemical Engine Company No. 1.

LOCATED ON VINE STREET.

1 double tank (60 gallons each) engine	\$2,250.00
1 pair black horses	534.00
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	\$3,094.00

Supply Wagon.

1 supply wagon, with boxes and engineers' lanterns	\$250.00
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Spare Hose.

AT CENTRAL STATION, VINE STREET.

800 feet leather hose	\$400.00
600 feet fabric hose	375.00
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Total amount	\$775.00

Exercise Wagon.

CENTRAL STATION, VINE STREET.

1 four-wheeled exercise wagon with pole, shafts, three-horse hitch, and coal boxes	\$350.00
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Engineers' Department.

5 fire hats	\$10.00
5 engineer's white rubber coats	37.50
Furniture and fixtures	175.00
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Total amount	\$222.50

Independent Hose Company No. 5.

LOCATED AT CORNER OF OLD FALLS ROAD AND FRONT STREET.

1 four-wheeled hand hose-carriage	\$400.00
800 feet leather hose	300.00
2 hose-pipes, spanners, etc.	40.00
Furniture and fixtures	10.00
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Total amount	\$750.00

Goffe's Falls Hose-Carriage.

LOCATED AT DEVONSHIRE MILLS.

1 two-wheeled hose-carriage	\$30.00
300 feet fabric hose	100.00
2 hose-pipes	10.00
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Total amount	\$140.00

Sleeping-Hall.

AT CENTRAL STATION, VINE STREET.

7 beds, bedding, wardrobes, etc.	\$275.00
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Spare Hose-Carriage.

1 four-wheeled Amoskeag hose-carriage (being repaired for Steamer No. 6)	\$600.00
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Extra Horses.

1 horse at Central station for spare duty	\$200.00
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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
in 1890	300.00

Additions in 1891	\$280.00
in 1892	150.00
“Individual Tapper” system	3,000.00
Wire, ladders, arms, brackets, etc.	125.00
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Total	\$33,635.00

Recapitulation.

Amoskeag Steam Fire-Engine Co. No 1	\$7,500.00
Fire King Steam Fire-Engine Co. No. 2	8,512.00
Merrimack Steam Fire-Engine Co. No. 3	7,287.00
N. S. Bean Steam Fire-Engine Co. No. 4	5,989.00
Gen. Stark Steam Fire-Engine Co. No. 5	8,039.00
E. W. Harrington Steamer, (old)	500.00
Pennacook Hose Co. No. 1	3,729.00
Massabesic Hose Co. No. 2	3,185.00
Excelsior Hook-and-Ladder Co. No. 1	3,978.00
Chemical Engine Co. No. 1	3,094.00
Supply wagon	250.00
Spare hose	775.00
Exercise wagon	350.00
Engineers' department	222.50
Independent Hose Co. No. 5	750.00
Goffe's Falls Hose-Carriage	140.00
Sleeping-Hall (Central Station)	275.00
Spare Hose-Carriage	600.00
Fire-Alarm Telegraph	33,635.00
Extra horse	200.00
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Total	\$89,010.50

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.
2	Fred S. Bean	Asst. and clerk	Machinist	102 Orange.
3	Ruel G. Manning.....	Assistant	Carpenter	52 Douglas.
4	Eugene S. Whitney...	"	Supt. Electric L ^t	River road, N.
5	Clarence R. Merrill...	"	Grain dealer	414 Merrimack

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.
17	Henry C. Parsons.....	Clerk	Auctioneer.	28 Vine.
6	Charles F. Hall.....	Engineer	Machinist	28 Vine.
13	Joseph H. Gould.....	Asst. engineer.	"	1087 Elm.
11	Charles H. Rogers	Driver steamer	Teamster.	28 Vine.
12	Artemas C. Barker ...	Driver of hose.	"	28 Vine.
15	Thomas J. Wyatt	Hoseman	Carpenter	44 Middle.
16	Frank B. Marston.....	"	"	11 M. S. B.
19	Henry A. Boone.....	"	Machinist.	24 M. S. B.
9	Lewis G. Bryant.....	"	Carpenter	31 M. S. B.
18	James L. Brock.....	"	Tinsmith.....	21 Market.
14	Edgar A. Young	"	Clerk	371 Merrimack
10	Lucius M. Rollins	"	Molder	174 Concord.

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.
68	John Martin.....	Clerk	Machinist.....	624 N. Main.
120	Harry C. Morrill.....	Engineer	Engineer	Engine-house.
119	Stephen Thomes.....	Asst. engineer.	Carpenter	55 Douglas.
76	Jeremiah Lane	Driver steamer	Teamster	Engine-house.
69	Arthur W. Whitcomb.	Driver of hose.	"	Engine-house.
72	Samuel A. Hill	Hoseman	Janitor	86 School.
75	Robert J. Hill	"	Carpenter	86 School.
77	Daniel B. Emery.....	"	Machinist.....	Williams.
73	Charles S. Cousins ..	"	Harness-maker..	53 Douglas.
74	Thomas C. Foote.....	"	Wool sorter	56 N. Main.
66	Joseph H. Alsop.....	"	Wool waste sort'r	34 Douglas.
70	Chas. M. Tewksbury..	"	Freight handler.	86 School.

MERRIMACK STEAM FIRE-ENGINE COMPANY NO. 3.

House on Lake Avenue, corner Massabesic.

Badge No.	NAME.	Rank.	Occupation.	Residence.
86	Frank F. Porter.....	Foreman	Manufacturer...	330 Spruce.
79	Louis N. Dufrain.....	Asst. foreman.	Plumber.....	313 Hall.
83	Ernest E. Hubbell ...	Clerk	Carpenter.....	417 Central.
121	George B. Forsaith..	Engineer	Machinist.....	Engine-house.
122	Edwin E. Weeks.....	Asst. engineer.	"	255 Lake ave.
87	George H. Wheeler...	Driver steamer	Teamster....	Engine-house.
81	William S. McLeod...	Driver of hose.	"	Engine-house.
88	Fred S. Sloan.....	Hoseman	Painter	132 Massabesic.
80	Ernest L. George	"	Clerk.....	366 Lake ave.
84	Charles H. Colburn ...	"	Carpenter	294 Laurel.
85	Will P. Emerson.....	"	"	294 Laurel.
89	Parker R. Brown.....	"	Clerk.	422 Merrimack
78	George Dunnington..	"	Harness-maker.	510 Wilson.
82	Lyman W. Piper.....	"	Dresser	464 Central.

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.
23	George A. Cann.....	Asst. foreman.	Watchman	27 Middle.
20	Lucius B. Snelling....	Clerk.....	Pharmacist.....	269 Hanover.
21	Edgar G. Abbott.....	Engineer	Machinist.....	20 Vine.
32	Benj. R. Richardson..	Asst. Engineer	"	12 Meehanic.
31	Frank J. Dustin.....	Driver steamer	Teamster.....	20 Vine.
29	Alphonso E. Foster...	Driver of hose.	"	20 Vine.
28	Willie H. Dodge.....	Hoseman	Railroad fire'm'n	530 Chestnut.
30	Ellsworth V. Rowe....	"	Section hand	1261 Elm.
22	Walter A. Clarkson ..	"	Carpenter.....	98 Sagamore.
25	Frank B. Stevens	"	Clerk	310 Central.
27	Edward Sargent	"	Machinist.....	954 Elm.
24	Edward C. Gould	"	Clerk.....	26 Mechanic.
33	Thomas W. Lane, Jr..	"	Electrician.....	1937 Elm..

GENERAL STARK STEAM FIRE-ENGINE COMPANY NO. 5.

House No. 44 Webster Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
49	Charles W. Brown ...	Foreman	Clerk.....	16 Hazel.
123	George R. Simmons ...	Asst. foreman.	Machinist.....	82 Pennacook.
46	Woodbury Davison ...	Clerk.....	Carpenter	817 Union.
42	Daniel W. Morse.....	Engineer	Engineer	1419 Elm.
102	Walter Morse.....	Asst. engineer.	Machinist.....	831 Union.
125	Emil H. Smith.....	Driver steamer	Teamster.....	44 Webster.
124	Henry S. Reed.....	Driver hose ...	"	44 Webster.
101	Milo B. Wilson	Hoseman	Mason	48 Blodget.
47	Russell L. Cilley.....	"	Clerk.....	863 Chestnut.
95	Edward H. Clough ...	"	"	859 Chestnut.
41	Arthur A. Smith.	"	Blacksmith....	11 W. Applet'n
126	Alvin McLane.....	"	Carpenter	15 Liberty.
99	Joseph I. Risvold	"	Machinist.....	130 Myrtle.
108	Edwin L. Towle.....	"	Clerk.....	62 Webster.

PENNACOOK HOSE COMPANY NO. 1.

House No. 26 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
34	Albert Maxfield.	Foreman.....	Belt maker.....	98 Liberty.
36	Joseph E. Merrill.....	Asst. foreman.	Carrier.....	21 Ash.
50	Frank D. Burleigh.....	Clerk.....	Carpenter.....	6 M. S. B.
37	Walter L. Bienns.....	Driver.....	Teamster.....	26 Vine.
38	George H. Porter.....	Hoseman.....	Carpenter.....	279 Laurel.
48	Albert A. Puffer.....	".....	Rail'd employee	499 Beech.
52	Charles B. French.....	".....	Carpenter.....	39 M. S. B.
53	John E. Sanborn.....	".....	".....	274 Laurel.
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.
39	Henry Gray.....	".....	Machinist.....	7 M. S. B.

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.
55	Revalo G. Houghton..	Asst. foreman.	Gas fitter.....	288 Bridge.
58	Henry G. Seaman.....	Clerk.....	Carpenter.....	14 South.
57	Walter Seaward.....	Driver.....	Teamster.....	521 Maple.
59	Jos. W. Batchelder...	Hoseman.....	Carpenter.....	167 Maple.
64	Albert E. Batchelder.	".....	".....	467 Maple.
65	Fred S. Lewis.....	".....	Plumber.....	27 South.
62	Julien B. Bantley.....	".....	".....	36 Dutton.
60	Charles W. Powell....	".....	Carpenter.....	549 Maple.
61	Addison Seaward.....	".....	".....	250 East High
56	Arthur B. Merrill.....	".....	".....	602 Hall.
63	James A. Rogers.....	".....	".....	76 Beech

CHEMICAL ENGINE COMPANY NO. 1.

House No. 8 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
116	George N. Burpee.....	Foreman.....	Electrician	19 Ash.
117	Warren F. Wheeler ..	Clerk & driver	Teamster.....	8 Vine.
118	Frank A. Pherson.....	Pipeman.....	Machinist.....	8 Vine.
115	Jesse W. Truell	Fireman	Hackman.....	153 Hanover.
44	Frank H. Harvey*....	"	Teamster	546 Chestnut.

* Detailed as driver of supply wagon.

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.
111	Roscoe Dyer.....	Asst. foreman.	Machinist.....	46 Stark Corp.
90	Henry Johnson	Clerk	Piper.	20 M. S. B.
94	Charles M. Denyou ..	Driver	Teamster.....	18 Vine.
96	James Orrill.....	Fireman.....	Barber.....	100 Blodget.
98	John N. Chase	"	Overseer	268 Bridge.
92	Oscar P. Stone	"	Clerk.	312 Manchest'r
114	John Wilson	"	Carpenter.....	19 Warren.
103	Luther J. Flint	"	"	4 Dutton.
104	Harrison H. Cole	"	"	45 M. S. B.
109	George M. Jones.....	"	Gardener.....	558 Chestnut.
110	Pharis E. Rogers	"	Mason.....	135 Orange.
97	Charles W. Badley....	"	Carriage maker	Linden.
107	Henry Heap.....	"	Manufacturer ...	4 Whitney.
113	Charles H. Laxon	"	Carpenter	27 Middle.
106	Charles Edgar	"	"	16 M. S. B.
105	John T. Gott	"	Teamster.....	301 E. Spruce.
112	Henry C. Crosby.....	"	"	234 Lake ave.
93	Charles H. Gile	"	Carpenter.....	56 Stark Corp.
100	Frank M. Frisselle....	"	Reporter.....	Hanover.

Location of Hydrants.

The following locations of hydrants are as furnished by the water-works office in 1891.

I applied to the office for those set during the year and could not obtain them, the clerk refusing to furnish the list.

Amherst, northwest corner of Vine.
Amherst, southwest corner of Chestnut.
Amherst, northwest corner of Pine.
Amherst, northwest corner of Union.
Amherst, northwest corner of Walnut.
Amherst, northwest corner of Beech.
Amherst, northwest corner of Maple.
Amherst, northwest corner of Lincoln.
Amherst, northwest corner of Ashland.
Amherst, northwest corner of Hall.
Amherst, northwest corner of Belmont.
Appleton, northwest corner of Elm.
Appleton, northwest corner of Chestnut.
Appleton, northwest corner of Pine.
Appleton, northwest corner of Union.
Arlington, northwest corner of Cross.
Arlington, northwest corner of Warren.
Arlington, northwest corner of Ashland.
Ash, front of No. 32.
Auburn, corner of Franklin.
Auburn, northeast corner of Elm.
Auburn, front of No. 40.
Auburn, northwest corner of Chestnut.
Auburn, northwest corner of Adams.
Auburn, northwest corner of Union.
Auburn, northwest corner of Beech.
Auburn, northwest corner of Maple.
Baker, corner of Elm.
Baker, corner of River road.
Baker, corner of Calef road.

Baker, corner of Nutt road.
Bay, corner of Salmon.
Bedford, northwest corner of Granite.
Bedford, near No. 36 M. P. W. corporation.
Bedford, northwest corner of Central.
Beech, northwest corner of Park.
Beech, front of No. 584.
Belmont, near No. 345.
Belmont, corner Young.
Belmont, near Coffin residence.
Birch, northwest corner of Lowell.
Birch, northwest corner of Washington.
Blodget, front of primary school house.
Blodget, northwest corner of Chestnut.
Blodget, northwest corner of Pine.
Blodget, northwest corner of Union.
Bridge, front of No. 26.
Bridge, northwest corner of Chestnut.
Bridge, northwest corner of Union.
Bridge, northwest corner of Walnut.
Bridge, northwest corner of Beech.
Bridge, northwest corner of Ash.
Bridge, northwest corner of Maple.
Bridge, near No. 242.
Bridge, northwest corner of Russell.
Bridge, northwest corner of Linden.
Bridge, corner of Ashland.
Bridge, corner of Hall.
Brook, northwest corner of P. Adams's lot.
Brook, northwest corner of Chestnut.
Brook, northwest corner of Pine.
Brook, northwest corner of Union.
Brook, northwest corner of Beech.
Brook, northwest corner of Ash.
Calef road, near Patrick Harrington's.
Calef road, near D. T. Smith's house.
Canal, near east corner of Depot.

Canal, near office door M. L. W.
Cedar, corner of Elm.
Cedar, front of No. 36.
Cedar, northwest corner of Chestnut.
Cedar, northwest corner of Pine.
Cedar, northwest corner of Union.
Cedar, northwest corner of Beech.
Cedar, northwest corner of Maple.
Cedar, northwest corner of Lincoln.
Central, northwest corner of Chestnut.
Central, northwest corner of Pine.
Central, northwest corner of Union.
Central, near gate, Merrimack square.
Central, northwest corner of Beech.
Central, northwest corner of Maple.
Central, northwest corner of Lincoln.
Central, front of No. 374.
Central, northwest corner of Wilson.
Central, northwest corner of Hall.
Central, corner of Cass.
Chestnut, northwest corner of Lowell.
Chestnut, opposite High.
Chestnut, northwest corner of Pearl.
Chestnut, northwest corner of Orange.
Chestnut, northwest corner of Myrtle.
Chestnut, northwest corner of Prospect.
Chestnut, northwest corner of Salmon.
Clarke, northwest corner of Elm.
Clarke, northwest corner of Union.
Concord, corner Elm.
Concord, opposite Vine.
Concord, northwest corner Chestnut.
Concord, northwest corner of Union.
Concord, northwest corner of Walnut.
Concord, northwest corner of Beech.
Concord, northwest corner of Maple.

Concord, northwest corner of old Amherst.
Concord, northwest corner of Ashland.
Concord, northwest corner of Hall.
Concord, northwest corner of Belmont.
Cypress, south end of street.
Cypress, at Manchester shoeshop.
Dean, northeast corner of Canal.
Dean, northwest corner of Elm.
Depot, northeast corner of Elm.
Elm, opposite foot of Manchester.
Elm, northwest corner of Salmon.
Elm, northwest corner of Cove.
Franklin, opposite Middle.
Gore, corner of Beech.
Granite, northwest corner of Elm.
Granite, near Franklin.
Granite, northeast corner of Canal.
Granite, east end of Granite bridge.
Grove, corner of Elm.
Grove, in East Manchester.
Hancock.
Hancock, near shoeshop.
Hancock, northwest corner River road.
Hancock, near brewery.
Hanover, corner of Elm.
Hanover, front of Opera House.
Hanover, northwest corner of Chestnut.
Hanover, northwest corner of Pine.
Hanover, northwest corner of Union.
Hanover, northwest corner of Beech.
Hanover, northwest corner of Maple.
Hanover, northwest corner of Lincoln.
Hanover, northwest corner of Ashland.
Hanover, northwest corner of Hall.
Hanover, northwest corner of Belmont.
Harrison, opposite No. 15.
Harrison, northwest corner of Chestnut.

Harrison, northwest corner of Pine.
Harrison, northwest corner of Union.
Harrison, northwest corner of Beech.
Harrison, northwest corner of Maple.
Harrison, northwest corner of Oak.
Harrison, northwest corner of Russell.
High, corner of Ashland.
High, corner of South.
High, fifty feet east of Wilson road.
Hollis, northeast corner of Canal.
Hollis, northeast corner of Hobbs.
Hollis, northwest corner of Elm.
Jewett, corner of Massabesic.
Kidder, northeast corner of Canal.
Kidder, northeast corner of Hobbs.
Kidder, northwest corner of Elm.
Kidder's court, northwest corner of Elm.
Lake avenue, near No. 36.
Lake avenue, northwest corner of Chestnut.
Lake avenue, northwest corner of Union.
Lake avenue, northwest corner of Maple.
Lake avenue, northwest corner of Lincoln.
Lake avenue, northwest corner of Wilson.
Lake avenue, corner of Cass.
Lake avenue, east end, near Hastings residence.
Langdon, northwest corner of Elm.
Langdon, northeast corner of Canal.
Laurel, northwest corner of Pine.
Laurel, northwest corner of Union.
Laurel, northwest corner of Beech.
Laurel, northwest corner of Maple.
Laurel, northwest corner of Lincoln.
Laurel, near No. 244.
Laurel, northwest corner of Wilson.
Laurel, near Belmont.
Laurel, northwest corner of Milton.
Laurel, northwest corner of Beacon.

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

Merrimack, northwest corner of Lincoln.
Merrimack, near No. 362.
Merrimack, northwest corner of Wilson.
Merrimack, northwest corner of Hall.
Merrimack, near Belmont.
Merrimack, northeast corner of Beacon.
Middle, northeast corner of Canal.
Middle, near No. 67 Amoskeag corporation.
Monroe, northwest corner of Elm.
Myrtle, opposite No. 33.
Myrtle, northwest corner of Pine.
Myrtle, northwest corner of Union.
Myrtle, northwest corner of Walnut.
Myrtle, northwest corner of Beech.
Myrtle, northwest corner of Ash.
Myrtle, northwest corner of Maple.
Myrtle, northwest corner of Oak.
Myrtle, northwest corner of Russell.
North, northwest corner of Bay.
North, northwest corner of Chestnut.
North, northwest corner of Pine.
North, corner of Liberty.
Orange, opposite Clark's avenue.
Orange, northwest corner of Pine.
Orange, northwest corner of Union.
Orange, northwest corner of Walnut.
Orange, northwest corner of Beech.
Orange, corner of Ash.
Orange, corner of Maple.
Orange, corner of Oak.
Orange, corner of Russell.
Orange, corner of Linden.
Orange, corner of Hall.
Pearl, northwest corner of Elm.
Pearl, northwest corner of Clark's avenue.
Pearl, northwest corner of Pine.
Pearl, northwest corner of Union.

- Pearl, corner of Beech.
- Pearl, corner of Walnut.
- Pearl, northwest corner of Ash.
- Pearl, northwest corner of Maple.
- Pearl, northwest corner of Oak.
- Pearl, northwest corner of Russell.
- Pearl, northwest corner of Linden.
- Pearl, northwest corner of Ashland.
- Pearl, northwest corner of Morrison.
- Pennacook, northwest corner of Chestnut.
- Pennacook, northwest corner of Pine.
- Pennacook, northwest corner of Union.
- Pine, near Road House.
- Pine, northwest corner of Lake avenue.
- Pine, northwest corner of Concord.
- Pine, northwest corner of Lowell.
- Pine, northwest corner of High.
- Pine, northwest corner of Bridge.
- Pleasant, northeast corner of Canal.
- Pleasant, near No. 35 Manchester corporation.
- Pleasant, northwest corner of Franklin.
- Pleasant, northwest corner of Elm.
- Prospect, between Elm and Chestnut.
- Prospect, northwest corner of Chestnut.
- Prospect, northwest corner of Pine.
- Prospect, northwest corner of Union.
- Prospect, northwest corner of Walnut.
- Prospect, northwest corner of Beech.
- Prospect, northwest corner of Ash.
- Prospect, northwest corner of Maple.
- Prospect, northwest corner of Oak.
- Prospect, northwest corner of Russell.
- Prospect, corner of Linden.
- Reservoir, on force main.
- River road (north), north of Webster.
- 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.
Salmon, corner of Union.
Shasta, corner of Elm.
Shasta, corner of River road.
Shasta, corner of Beech.
Silver, corner of Union.
Silver, corner of Beech.
Somerville, corner of Union.
Spring, northeast corner of Canal.
Spring, northwest corner of Charles.
Spring, northwest corner of Elm.
Spring, corner of Elm.
Spruce, northwest corner of Chestnut.
Spruce, northwest corner of Pine back.
Spruce, northwest corner of Union.
Spruce, between Chestnut and Elm.
Spruce, northwest corner of Beech.
Spruce, northwest corner of Maple.
Spruce, northwest corner of Lincoln.
Spruce, northwest corner of Wilson.
Spruce, northwest corner of Belmont.
Spruce, near T. J. Perry's house.
Stark, northeast corner of Canal.
Stark, near No. 13 Stark corporation.
Stark, northwest corner of Elm.
State, northwest corner of Granite.
State, opposite No. 57 Manchester corporation.
State, opposite No. 13 Manchester corporation,
State, corner of West Central.
Summer, corner of Elm.
Taylor, corner of Young road.
Union, northwest corner of Lowell.
Union, northwest corner of High.
Valley, northwest corner of Elm.
Valley, northwest corner of Willow.
Valley, northwest corner of Beech.

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

Young, 96 feet east of R. N. Batchelder's.
 Young, corner of Jewett.
 Young road.

PISCATAQUOG AND MCGREGORVILLE.

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

Ferry, corner of Main.
Granite, corner of Quincy.
Granite, corner of Green.
Granite, corner of Barr.
Granite, corner of West.
Granite, corner of Dover.
Granite, corner of Main.
Granite, corner of Shirley.
Granite, corner of River.
Highland, between Wilkins and Mast.
Kelley, corner of Beauport.
Kelley, corner of Cartier.
Kelley, corner of Dubuque.
Main, near Milford.
Marion, corner of McGregor.
Mast, corner of South Main.
Mast, corner of Bowman.
Mast, between Bowman and South Main.
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.
Milford, southeast corner of Bowman.
Milford, corner of old Bedford road.
Milford, corner of Bismark.
Patten, corner of Ferry.
Putnam, corner of Main.
Putnam, corner of Beauport.
Putnam, corner of Dubuque.
Riddle, near Mast.
School, corner of South Main.
School, opposite schoolhouse.
School, corner of River.
Shirley, northwest corner of Walker.

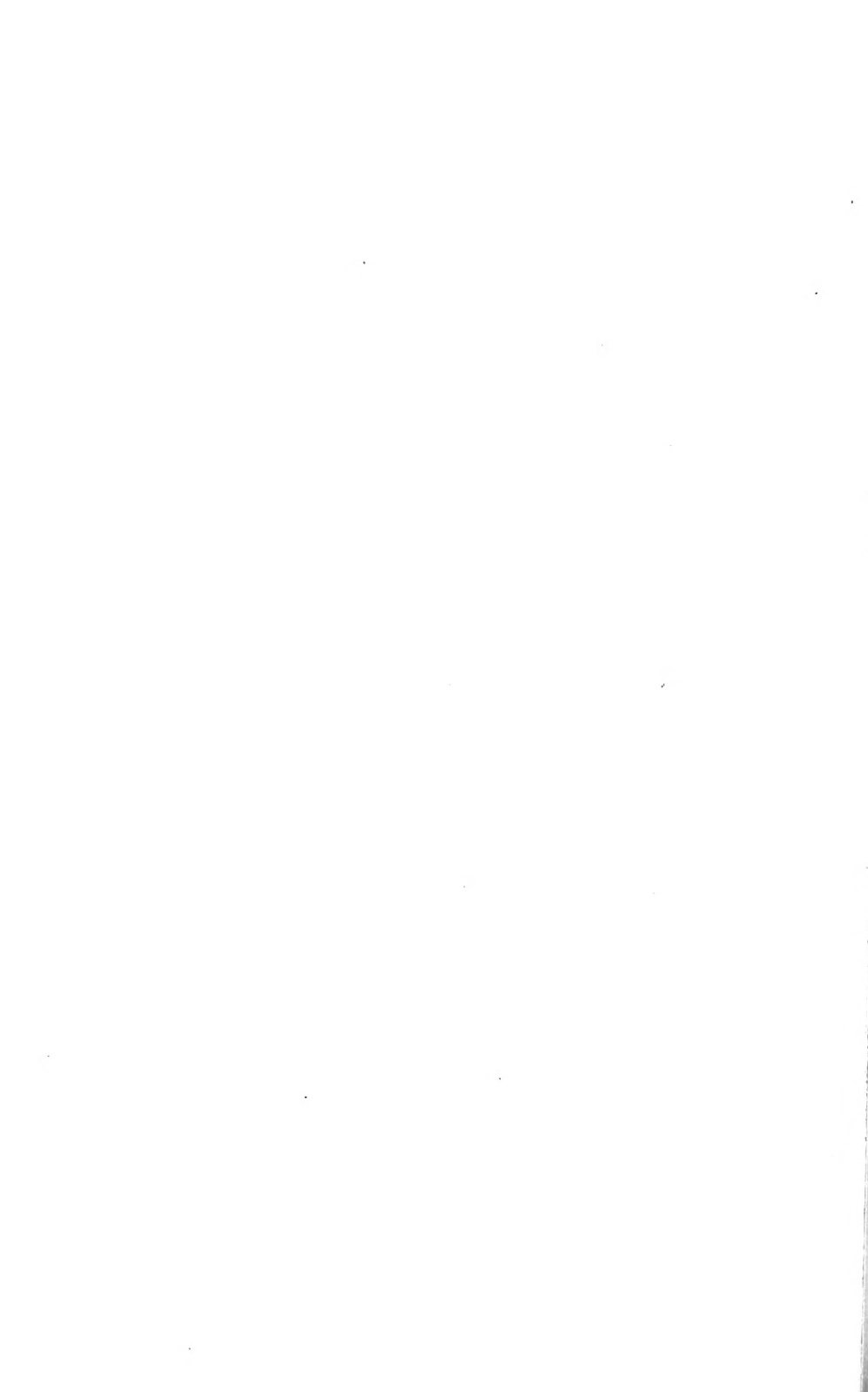
Shirley, southwest corner of Ferry.
 Sullivan, corner of Main.
 Sullivan, corner of Beauport.
 Temple, corner of Main.
 Walker, corner of River.
 Walker, corner of Patten.
 Walker, corner of Parker.
 Walker, near corner of South Main.
 Wayne, near G. Belisle's house.
 Wayne, near corner of Beauport.
 Wayne, near corner of Main.
 Wilkins, northwest corner of Highland.
 Wilkins, northwest corner of Mast.
 Wilkins, opposite Tirrell residence.
 Winter, corner of South Main.

AMOSKEAG.

Dunbarton road, corner of Front.
 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.
 Varnum, corner of Main.

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, 477.



REPORT
OF THE
CITY ENGINEER.

CITY ENGINEER'S DEPARTMENT.
1892.

City Engineer.

WINFRED H. BENNETT.

Assistants.

HARRIE M. YOUNG.

GEORGE W. WALES.

HARRY J. BRIGGS.

EDGAR E. FARMER.

REPORT OF THE CITY ENGINEER.

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

SIRS,—I have the honor of presenting my seventh annual report, being the fourteenth annual report of the work in the city engineer's department and the several highway districts of the city of Manchester, for the year ending December 31, 1892 :

Expenses of the department for the year 1892 :

For salary of city engineer	\$1,200.00
salary of assistants	2,202.80
supplies for the office	107.86
additions to office furniture	58.43
new team	302.86
stakes	45.00
horse-shoeing and repairs of wagon and harness	13.15
street-car fares . . . . .	.90
printing reports	28.00
express and postage	5.34
repairing	14.00
expenses	8.92
books and folios	43.30
drawing paper	96.35
printing	7.50
rent of telephone	25.50
incidentals . . . . .	.70
	\$4,160.61
Total	\$4,160.61
Appropriation	4,000.00
	\$160.61
Amount overdrawn	\$160.61

The items for salaries may be divided as follows :

For giving lines and grades for the extension and construction of streets and sidewalks . . .	\$303.26
plans and profiles relating to the construction of streets and sidewalks	253.50
surveys and levels for the construction of streets and sewers	282.62
giving lines and grades for and superintending the construction of sewers	188.50
plans and profiles relating to the construction of sewers	176.30
surveys, measurements, and plans for the assignment of street numbers	265.74
making plans for improvements other than those mentioned in this account	133.60
surveys, levels, and plans, also lines and grades given for improvements in Pine Grove cemetery	88.75
surveys, levels, and plans, also lines and grades given for improvements in Valley cemetery	11.55
surveys, levels, and plans, also lines and grades given for repairing and extending the street railway	32.40
collecting data, classifying accounts, and other work in relation to office report	84.98
plans, notes, etc., relating to Stark park	46.30
survey of Piscataquog river	15.02
ward nine engine-house, plans, specifications, and superintendence	111.35
Vine street engine-house, plans, specifications, and measurements	42.00
copying records of highways and of streets laid out	25.75
indexing plans and notes	59.20
copying index to transit and level books	108.94
checking notes, figures, etc.	27.51

For making plans of streets in city clerk's book of records	\$43.42
plotting sewers in sewer book and on map	29.40
locating and putting up street signs	57.00
preparing and mounting drawing paper for office use	29.73
locating and setting stone bounds	38.86
office work, preparing notes, data, records, etc.	248.47
measuring various bridges	5.40
plotting sectional maps of city	61.50
procuring abutters' names	57.08
lettering and finishing plans	70.50
locating cesspools, manholes, etc.	35.25
office work, information given engineers and others regarding lines, grades, sewers, etc.	248.02
notes in relation to Putnam street for county commissioners	8.00
computing areas of land taken for new streets	60.00
plans for and attendance upon board of aldermen at street hearings	32.00
city farm, measuring well, to verify bill for city auditor	2.90
orders and petitions written for presentation to the city government	16.00
attendance upon meetings of the committee on streets and plans pertaining thereto	64.00
investigating and reporting cases to committee on claims	10.00
attendance upon meetings of the committee on sewers and drains, clerical work, including orders written	28.00
Total	<u>\$3,402.80</u>

The following bills, charged to other appropriations, have been certified to by this department :

Balance of G. W. Whitford's bill of 1890	\$201.04
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Temple & Farrington Co., blank book for committee on sewers and drains	\$12.25
T. H. Tuson, printing for same committee	5.35
Union Manufacturing Co., street numbers	68.49
Flint & Little, putting up street signs	22.95
Frank Cummings, painting street signs	76.00
Warren Harvey, Maple-street culvert	3,333.00
Total	<u>\$3,719.08</u>

Amount of concrete laid for the city by Charles H. Robie, the Charles H. Robie Company, and George F. Higgins, as measured by this department, 13,052.38 square yards.

Expenses for soldiers' monument :

For water	\$200.00
For gas . . . . .	.14
Total	<u>\$200.14</u>

The amount of work done by this department during the year is as follows :

Number of orders for surveys, street lines, and grades	897
for sewer grades	99
for paving grades	55
for street railway grades	3
for profile levels	55
Total number of orders	<u>1109</u>

Levels for profiles for establishing grades, 54,730 feet, equal to 10.36 miles. These profiles, having three lines of levels on each street, make a total distance actually leveled of 164,190 feet.

Levels for sewer profiles	3,584 feet.
for other center profiles	10,719 "
in Pine Grove cemetery	200 "
Other levels	<u>7,476 "</u>
Total levels taken	186,169 feet.

Equal to 35.26 miles.

Surveys of streets and street lines	115,516 feet.
in Pine Grove cemetery	11,410 "
in Valley cemetery	1,500 "
for street numbers	34,055 "
Other surveys	78,790 "

Total surveys made 241,271 feet.

Equal to 45.69 miles.

Street lines marked on ground	56,200 feet.
Lines of lots and avenues, Pine Grove cemetery	12,700 "
of lots and avenues, Valley cemetery	900 "
for street centers	10,179 "
for gutters	14,431 "
for curb	4,541 "
for sewers	16,782 "
for street railway	9,200 "
Other lines	5,450 "

Total length of lines marked on ground 130,383 feet.

Equal to 24.69 miles.

Grades set for sidewalks	25,317 feet.
for centers	1,779 "
for gutters	14,431 "
for curb	4,541 "
for sewers	16,782 "
for street railway tracks	1,803 "
for building streets	28,655 "
in Pine Grove cemetery	4,463 "
in Valley cemetery	464 "
Other grades	1,451 "

Total length of grades set 99,686 feet.

Equal to 18.88 miles.

Profile measurements made	12,935 feet.
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Equal to 2.45 miles.

Lot owners looked up	71,620 feet.
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Equal to 13.18 miles.

BATTERS SET.

McGregorville, Fulton engine house.	
Maple street, culvert.	
Old lots relaid in Valley cemetery	5
in Pine Grove cemetery	28
New lots laid out in Pine Grove cemetery	117
	<hr/>
Total cemetery lots laid out	175
Street numbers assigned and put on	512
replaced	280
changed	92
assigned but not put on	66
	<hr/>
Total	950
Street signs put on, east side	741
put on, west side	109
to be put on, east side	78
to be put on, west side	181
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Total	1,009
Number sewer permits granted	214

This year, as in previous years, the city engineer has investigated all cases where suits were liable to be brought against the city, and reported to the committee on claims.

PLANS AND PROFILES MADE FOR SIDEWALK GRADES.

B, from Prince to Milford.
 Calef road, from Elm to Webster. Nine plans.
 Canton, from Lake avenue to Auburn.
 Cleveland, from Blaine to Merrimack river.
 Dearborn, from Summer to Taylor.
 Elm east back, from Hanover to Concord.
 Jewett, from Massabesic to Cilley road. Two plans.
 Merrimack, from Beacon to Hanover.
 North, from Elm to River road.

Second, from Cleveland to Bell. Three plans.
 Wilson road, from Concord to Bridge.
 Woodbury, from Hill to South Main.
 Total plans and profiles, 23.

SEWER PLANS AND PROFILES.

A, from Boynton to B.
 Amory, from Beauport to Bennett boulevard.
 Ashland, from Amherst to Concord.
 Barr, from Granite to Conant.
 Bowman, from Mast to A.
 Boynton, from A to McDuffie.
 C, from Boynton to B.
 Carroll, from Milford to Amherst road.
 Cartier, from Wayne to south of Sullivan.
 Cartier east back, from Amory to Kelley.
 Chandler, from West North to West North north back.
 Chestnut, from Manchester to Amherst.
 Chestnut east back, from Salmon to north of North.
 Conant, from Cartier to west of Quincy.
 Coolidge avenue, from Amory to Kelley.
 Dubuque, from Amory to Putnam.
 Dubuque east back, from Amory to Kelley.
 East High, from Wilson road to Hall.
 Elm west back, from West North north back to Webster.
 Front, from Goffstown road to north of Dunbarton road. Two
 plans.
 Granite, from Green to Winter.
 Green, from Granite to Conant.
 Grove, from Belmont to Taylor.
 Jewett, from Massabesic to Young road.
 Kelley, from Coolidge avenue westerly.
 Lake avenue, from Beacon to Canton.
 Laurel, from Lincoln to Belmont.
 Linden, from Bridge to Pearl.
 Mast, from Bowman to Mast road.
 Morrison, from Pearl to Arlington.

Orange, from Russell to Belmont.
 Parker, from Winter to M. & N. W. R. R.
 Quincy, from Granite to Conant.
 Riddle, from Milford to Mast.
 Sullivan, from Main to Beauport.
 Third, from School to Blaine.
 Union, from Cedar to Summer.
 Webster, from Union to east of Oak.
 West, from Parker to Conant.
 Weston, from Spruce to Lake avenue.
 West North, from River road to Elm.
 West North north back, from Chandler to Elm west back.
 Wilson road, from Bridge to East High.
 Wilson road, from Bridge to Concord.
 Total sewer plans and profiles, 45.

NUMBERING PLANS.

Amory, Dubuque to Bennett boulevard. Two plans.
 B, Prince to Milford.
 Barr, Conant southerly.
 Bell, Second to South Main. Two plans.
 Belmont, Young to Cilley. Three plans.
 Belmont, Bridge to Harrison. Three plans.
 Bridge, Hall to Mammoth road. Three plans.
 Brown avenue, Elm southerly. Four plans.
 Cedar, Lincoln to Spruce. Two plans.
 Cheney place, Elm to Brown avenue.
 Clay, Elm to Porter. Nine plans.
 Colby, West Hancock to Log.
 Conant, Dubuque to Quincy.
 Cypress, Massabesic to Cilley. Four plans.
 Dartmouth, Log to south of Wingate. Three plans.
 Dickey, West Hancock to South Main.
 Dinsmoor, West Hancock to Piscataquog river.
 Foster avenue, Valley to Young.
 Frederick, Wentworth to South Main. Two plans.
 Front, Mill to Dunbarton road.

Garland avenue, Taylor to Cypress.
Gilman, Wentworth to Second.
Green, Conant southerly.
Green, Canal to Belmont. Six plans.
Grove, Canal to Belmont. Six plans.
Hale, Frederick to Wingate. Two plans.
Hall, Lake avenue to Cilley. Six plans.
Hall, Bridge to Harrison. Three plans.
Harrison, Russell to Belmont. Two plans.
Harvey, West Hancock to Piscataquog river.
Harvard, Elm to Porter. Six plans.
Hevey, Conant to Kelley. Five plans.
Hill, Frederick to south of Gilman. Two plans.
Jewett, Massabesic to Cilley. Four plans.
Kelley, Beauport to M. & N. W. R. R. Seven plans.
Lincoln, Auburn to Cilley. Five plans.
Linden, Orange to Gore. Two plans.
Main, Granite to A.
Marlborough, Bowman westerly.
Massabesic, Lake avenue to Mammoth road. Six plans.
McDuffie, Boynton to Huntress.
McNeil, West Hancock to Dartmouth.
Mead, Hall to Belmont.
Merrill, Elm to Porter. Nine plans.
Mill, Front easterly.
Myrtle, Linden to Belmont. Two plans.
Old Falls road, Belmont to Massabesic. Two plans.
Orange, Linden to Belmont. Two plans.
Pearl, Linden to Belmont. Two plans.
Prescott, Elm to Belmont. Six plans.
Prince, Boynton to Huntress.
Prospect, Linden to Belmont.
Quincy, Conant southerly.
Second, Mill northerly.
Second, Cleveland to Bell. Three plans.
Shasta, Elm to Porter. Ten plans.
Short, Elm to Belmont. Five plans.

Silver, Elm to Porter. Nine plans.
 Somerville, Elm to Porter. Nine plans.
 Summer, Canal to Massabesic. Six plans.
 Taylor, Massabesic to Cilley. Five plans.
 Third. Mill to West Salmon.
 Valley, Elm to Massabesic. Nine plans.
 Wayne, Dubuque to Hevey.
 Wentworth, West Hancock to Gilman. Two plans.
 Wheelock, West Hancock to Belknap. Three plans.
 Wilson, Cedar to Cilley. Seven plans.
 Woodbury, Hill to South Main. Two plans.
 Young, Elm to Massabesic. Ten plans.
 —, Front easterly.

Numbering sheets made for new book, 199.

Total numbering plans made, 427.

MISCELLANEOUS PLANS.

Adams, Ray, Union, and Chestnut streets, Phinehas Adams's farm. Copy.

Amory, Essex, and Columbus streets, land owned by J. A. Sheehan & Co. Copy.

Amory, Essex, Congress, and Monitor streets, plan of D. C. Whittemore's lots. Copy.

Amory, Kelley, and Joliet streets, land of J. McGovern, Copy.

B street, land bought of Fairbanks and Fisher by E. E. Bullard. Copy.

Bartlett, Thornton, and Whipple streets, plan of D. C. Whittemore's lots. Copy.

Boynton street, plan of "Glenwood." Copy.

Central street, Lake avenue, and James Hall road, land of Frederick Allen. Copy.

Jewett and Cypress streets, land of H. H. Young. Copy.

Kelley street, plan of Bowman land. Copy.

Kelley, Amory, Joliet, and Lafayette streets, land owned by Sullivan and Sheehan. Copy.

Lake avenue, Lincoln, Belmont, and Young streets, land of Amoskeag company. Copy.

- Mast street, plan of the Head estate. Copy.
- Morgan, Moore, Kimball, and other streets, plan of William B. Morgan's lots. Copy.
- Pine Grove cemetery, lots and avenues in northwest corner.
- Sagamore street, land of Upton, Harvey, and Weston. Copy.
- Spring, Bridge, Elm, and Canal streets, Amoskeag company's lots. Copy.
- Trenton street, Miss Elizabeth B. Stark's farm. Copy.
- Wilkins street, land of U. A. and E. G. Carswell. Copy.
- Total miscellaneous plans, 19.

WORKING PLANS.

- Adams, Webster to Clarke. Profile.
- Amory, Main to Coolidge avenue. Center profile.
- Amory, Beauport to edge of bluff. Profile.
- Amory extension, Amory to Bartlett. Profile.
- Amory, Ward 9 engine-house. Thirteen plans.
- Amory, Ward 9 engine-house, detail of date stone.
- Auburn, Elm to Pine east back. Sewer profile.
- Auburn, Pine to Pine east back. Sewer profile.
- Auburn south back, Pine east back to Beech. Two sewer profiles.
- Auburn, Wilson to Belmont. Profile.
- Bartlett, Amory extension to south of Sullivan. Profile.
- Bay east back. Sketch showing sewer.
- Beech, Cedar to Nutt road. Profile.
- Bell, Wilson to Belmont. Profile.
- Cedar, Wilson to Belmont. Profile.
- Cheney place, Elm to Brown avenue. Profile.
- Chestnut, Appleton to Clarke. Center profile for water-works.
- Concord and Nashua. Plan for curbing at William Corey's.
- Coolidge avenue, Amory to Kelley. Center profile.
- Details for curbs for superintendent of streets.
- Dubuque, Amory to Kelley. Profile.
- Dubuque east back, Amory to Kelley. Sewer profile.
- Elm, Manchester to Hanover. Profile.
- Elm, Bridge to Market. Profile.

- Elm, Concord to Lowell. Profile for grades.
 Elm, Stark block section. Plan and grades.
 Franklin, Granite to Auburn. Profile.
 George, Milford northerly. Profile.
 Green, Wilson to Belmont. Profile.
 Grove, Wilson to Belmont. Profile.
 Hall, Lake avenue to Young. Profile.
 Hall, Young to Clay. Profile.
 Harrison, Russell to Belmont. Profile.
 Harvard, Pine to Belmont. Profile.
 Hevey, Bennett boulevard to Coolidge avenue. Profile.
 High, Ashland to Belmont. Center profile for water-works.
 Jewett, Valley to Cilley road. Plan for locating line.
 Kelley, Beaport to M. & N. W. R. R. Profile.
 Kelley, Coolidge avenue to Dubuque east back. Center profile.
 Lincoln, Lake avenue to Cilley road. Profile.
 Lowell, Wilson road to Belmont. Profile.
 Main, Sullivan to Wayne. Sewer profile.
 Maple, Hanover to Cilley road. Profile.
 Maple street culvert. Plan and sections.
 Mead, Hall to Belmont. Profile.
 Merrill, Wilson to Belmont. Profile.
 Pine, Cedar to Auburn. Sewer profile.
 Pine east back, Auburn to Auburn south back. Two sewer profiles.
 Pine Grove cemetery. Plan of J. L. Stevens's lot.
 Prospect, Russell to east of Belmont. Profile.
 Prospect, Linden to Derry old line. Center profile for water-works.
 Putnam, Main to west of M. & N. W. R. R. Profile.
 Ray, Webster to Clarke. Profile.
 Silver, Pine to Belmont. Profile.
 Stark park, location of trees for landscape gardeners.
 Summer, Wilson to Belmont. Profile.
 Three-horse hitch. Plans and sections.
 Union, Young to Auburn. Profile.
 Valley cemetery, plan of Olzendam's lot for F. S. Bodwell.

Valley, Elm to Massabesic. Center profile.
 Wilson, Young to Clay. Profile.
 Wilson road, Bridge to East High. Sewer profile.
 Young, Wilson to Belmont. Profile.
 Total working plans, 77.

TRACINGS.

Amory, Ward 9 engine-house. Thirteen plans.
 Amory, Ward 9 engine-house. Part of basement.
 Auburn, Canton to James Hall road. For road hearing.
 Belmont, Lincoln, Shasta, and Valley. Square showing lots.
 Belmont and Summer. Dr. Parsons's lot.
 Boynton, "Glenwood" section.
 Bremer. Amoskeag Company's profile.
 Brown avenue, Baker southerly.
 Cemetery brook, Pine to Beech. For Inspector O'Dowd.
 Central, James Hall road and Lake avenue. Land of Frederick Allen.
 Coolidge avenue, west of Amoskeag Company's lots.
 Elm, Stark block section. Plan and grades for architect.
 Jewett and Young. Schoolhouse lot, location of trees.
 Kelley, Amory, Joliet, and Lafayette. Land of Sullivan and Sheehan.
 Lincoln, Belmont, Lake avenue and Young. Land of Elliot Manufacturing Company.
 Maple street culvert. Plan and section.
 Mitchell, Calef to River road. For road hearing.
 New Hampshire Improvement Company's land, showing grades.
 Pine Grove cemetery, Heath lot curbing.
 Pine Grove cemetery, plan of J. L. Stevens's lot.
 Pine Grove cemetery, part of Landscape lawn.
 Pine Grove cemetery, Swedish section. Three plans.
 Pine Grove cemetery, section north of Swede lot. Three plans.
 Second, at Piscataquog river.
 Second, Cleveland to West Hancock.

Stark park, location of trees.
 Stevens, Baker southerly. For road hearing.
 Three-horse hitch. Plans and sections.
 Trenton, farm of Miss Elizabeth B. Stark.
 Ward 5, location of.
 Ward 9, location of.
 West Manchester, Amoskeag Company's plan.
 Wilkins, land of U. A. and E. G. Carswell.
 Total tracings, 50.

BLUE PRINTS.

Amory, Ward 9 engine-house. Twenty-six plans.
 Canal. Granite to Pleasant. Location.
 Hall, Lake avenue to Central. Street railway tracks.
 Massabesic, street railway turnout.
 Milford, land of Brooks, Brock, and Brooks.
 Second, Cleveland to West Hancock. Two plans.
 Second, M. & N. W. R. R. to West Hancock. Two plans.
 Second, at Piscataquog river.
 Three-horse hitch. Two plans.
 Trenton, land of Miss Elizabeth B. Stark.
 Ward 5, location of.
 Total blue prints, 39.

MAPS.

McGregorville, showing lots from Merrimack river to town line and from Wayne street to Goffstown road.
 West Manchester, property map, including section from Merrimack river to town line and from Mast to Adams street.
 West Manchester, sewer map, additional sections and changes.
 Total maps, 3.

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

Total of all plans made, 726.

Twelve plans are under way which will be completed during

the year. Twenty-three miscellaneous plans have been lettered and finished.

Plans made for the establishment of grade on laid out streets, 62,763 feet.

Plans made for the establishment of grade on streets not laid out, 18,704 feet.

Total, 81,467 feet, equal to 15.43 miles.

SEWERS BUILT

STREET.	LOCATION.	Material.
Adams.....	From Appleton northerly.....	Portland
Amherst.....	West of Union westerly.....	Akron.....
Amherst.....	West of Union westerly	Portland
Ashland.....	From Concord southerly.....	“
Belmont	From south of Lowell to High.....	Akron.....
Bridge	Easterly to Wilson road.....	Brick
Wilson road.....	Bridge to East High.....	Portland....
Wilson road.....	Bridge to East High.....	Iron
Central.....	From Franklin easterly.....	Akron
Central.	From Franklin easterly.....	Portland
Central	From Franklin easterly.....	“
Elm west back.....	From Bridge southerly.....	“
Grove.....	From Belmont easterly	“
Hall.....	Spruce to Central.....	“
Central	From Hall east and west	“
High, East.....	Wilson road to Ashland.....	Akron.....
High, East.....	Wilson road to Ashland.....	“
Jewett.....	Massabesic southerly.....	Portland
Lake ave.....	Hall to Belmont.....	“
Lake ave	Hall to Belmont.....	Akron... ..
Laurel.....	West of Wilson westerly.....	Portland
Linden.....	From Arlington northerly.....	“
Lowell south back.....	From Chestnut easterly.....	Akron.....
Massabesic	Cypress to Jewett.....	Portland
Morrison.....	Pearl to Arlington.....	Akron.....
Morrison	Pearl to Arlington.....	Portland
Orange.	East of Linden.....	“
Pearl	Easterly to Morrison	Akron.....
Webster.....	Union to Walnut.....	“
Webster	Union to Walnut.....	Portland
Wilson road.....	From Lowell southerly.....	Akron.....
Totals.....	.....	.....

IN 1892. — EAST SIDE.

Size in inches.	Length in feet, new.	Length in ft., relaid.	Man-holes.	Lamp-holes.	Y branches.	Total cost.	Cost per ft.
10	213	.....	1	.....	8	\$379.59	\$1.782
10	80	.....	1	.....	3	} 160.37	1.167
10	6	.....	.....	.....	.....
10	200	2	7			248.30	1.242
10	548	2	2	1	22	809.11	1.471
24 x 36	.....	32	1	.....	.....	} 1,475.28	3.538
15	373	.....	1	.....	13		
14	12	.....	.....	.....	.....
20	.....	4	.....	.....	.....	} 1,025.50	4.704
20	.....	198	2	.....	11		
15	.....	16	.....	.....	.....
12	165	.....	2	.....	7	374.49	2.269
12	491	.....	1	.....	19	440.94	.898
24	538	.....	2	.....	15	} 1,432.42	2.662
10	.....	55	.....	.....	.....
12	200	.....	1	.....	7	} 599.76	1.190
10	304	.....	.....	.....	11		
15	650	.....	1	.....	20	1,450.94	2.232
12	293	.....	1	.....	10	} 396.78	1.121
12	61	.....	1	.....	2		
8	255	.....	1	.....	12	214.86	.843
10	167	.....	1	1	6	228.24	1.366
10	44	.....	.....	1	1	74.51	1.693
20	483	.....	2	.....	13	3,676.35	7.611
10	108	.....	.....	.....	3	} 375.67	1.211
10	202	.....	.....	1	7		
10	153	1	4			202.86	1.326
10	222	.....	1	.....	9	395.70	1.782
15	64	.....	.....	.....	2	} 430.01	1.211
15	291	.....	1	.....	6		
10	99	.....	1	1	5	157.62	1.592
.....	6,222	307	26	6	223	\$14,489.30	.....

SEWERS BUILT

STREET.	LOCATION.	Material.
A.....	Main to B.....	Akron.....
A.....	Main to B.....	Portland.....
A.....	Main to B.....	".....
Amory.....	Main to Coolidge avenue.....	".....
Amory.....	Dubuque to Rimmon.....	".....
Bath.....	From Second westerly.....	".....
Beauport.....	From Schuyler northerly.....	".....
Blaine.....	Third to Cleveland.....	".....
Blaine.....	Third to Cleveland.....	".....
Bowman.....	A to Milford.....	".....
C.....	Boynton to B.....	Akron.....
C.....	Boynton to B.....	Portland.....
C.....	Boynton to B.....	".....
Cartier.....	Wayne to south of Sullivan.....	Akron.....
Cartier.....	Wayne to south of Sullivan.....	Portland.....
Cartier.....	Wayne to south of Sullivan.....	".....
Putnam.....	From Cartier westerly.....	Akron.....
Cartier east back.....	From Kelley southerly.....	Portland.....
Coolidge avenue.....	From Amory northerly.....	".....
Coolidge avenue.....	Northerly to Kelley.....	".....
Kelley.....	Beauport to Dubuque east back.....	".....
Dubuque east back.....	From Kelley southerly.....	".....
Granite.....	From Winter northerly.....	".....
Main.....	Sullivan to Wayne.....	Brick.....
Main.....	Sullivan to Wayne.....	Portland.....
Main.....	Wayne to Amory.....	".....
Main.....	South of Milford to A.....	".....
Main.....	South of Milford to A.....	Akron.....
Boynton.....	A to C.....	Portland.....
Sullivan.....	From Main westerly.....	Akron.....
Third.....	Piscataquog river to Cleveland.....	Portland.....
Third.....	Piscataquog river to Cleveland.....	Iron.....
Third.....	Cleveland to Blaine.....	Portland.....
Third.....	Ferry to Ferry south back.....	".....
Totals.....	.....	.....

IN 1892. — WEST SIDE.

Size in inches.	Length in feet, new.	Length in ft., relaid.	Man-holes.	Lamp-holes.	Y branches.	Total cost.	Cost per ft.
12	112	.....	.....	.....	3	\$929.65	\$1.152
12	29	.....	1	.....	.....
10	666	.....	2	.....	33	281.80	2.088
20	135	.....	1	.....	.....
12	270	.....	1	.....	6	394.69	1.461
10	137	.....	1	1	6	129.09	.942
10	332	.....	2	1	12	293.45	.884
12	435	.....	1	.....	16	1,460.53	2.300
10	200	.....	1	.....	6		
10	545	.....	2	.....	23	490.05	1.899
12	540	.....	1	.....	24	648.83	1.035
12	48	.....	.....	.....	.....
10	39	.....	1	.....	3	1,633.49	1.328
12	740	.....	3	.....	30		
12	60	.....	.....	.....	.....	801.11	1.462
10	430	.....	1	1	17		
12	31	.....	.....	.....	2	416.89	.725
10	548	.....	1	1	20	1,491.48	2.598
20	575	.....	2	.....	.....
20	160	.....	1	.....	.....	839.12	1.603
20	414	.....	2	.....	9		
10	557	.....	2	.....	21	116.45	.669
10	174	.....	1	.....	10	6,937.26	4.706
24x36	.....	111	.....	.....	2		
24	.....	877	4	.....	33	1,556.07	1.490
24	.....	486	2	.....	21		
15	40	.....	.....	.....	.....	249.38	1.204
15	623	.....	2	.....	27		
15	381	.....	2	.....	14	702.94	2.098
10	207	.....	1	1	6		
15	80	.....	.....	.....	2	166.47	.951
12	12	.....	.....	.....	.....
12	243	.....	2	.....	9	\$19,592.75	.....
10	175	.....	1	.....	4		
.....	8,938	1,474	40	5	359		

PIPE REMOVED WHERE NEW SEWERS HAVE BEEN BUILT.

STREET.	LOCATION.	Material	Size in inches.	Length in feet
Bridge.....	From Wilson road westerly.	Akron .	10	32
Central.....	From Franklin easterly.....	"	15	202
Central.....	At Hall.....	"	10	55
Main.....	Sullivan to Putnam.....	"	15	430
Main.....	Putnam to Amory..*	"	12	1,044
			.....	1,763

SUMMARY OF SEWERS BUILT IN 1892.

Total 24 x 36 inches, brick	143 feet.
24-inch Portland pipe	1,901 "
20-inch Akron pipe	4 "
20-inch Portland pipe	1,965 "
15-inch Akron pipe	687 "
15-inch Portland pipe	1,831 "
14-inch iron pipe	12 "
12-inch Akron pipe	1,684 "
12-inch Portland pipe	2,034 "
12-inch iron pipe	12 "
10-inch Akron pipe	1,612 "
10-inch Portland pipe	4,799 "
8-inch Portland pipe	255 "
15-inch pipe, cesspools, and connections	40 "
12-inch pipe, cesspools, and connections	140 "
10-inch pipe, cesspools and connections	978 "
8-inch pipe, cesspools, and connections	1,521 "

Total sewers built in 1892 19,618 feet.

Equal to 3.71 miles.

Following is the total amount of sewerage in the city January 1, 1892 :

8-inch Akron pipe	7,113 feet.
10-inch Akron pipe	43,943 "

12-inch Akron pipe	60,350 feet.
15-inch Akron pipe	15,562 "
18-inch Akron pipe	3,652 "
20-inch Akron pipe	6,007 "
24-inch Akron pipe	3,548 "

Total Akron pipe 83,119 feet.

Equal to 26.548 miles.

8-inch Portland pipe, old	90 feet.
12-inch Portland pipe, old	3,990 "
18-inch Portland pipe, old	770 "

Total Portland pipe, old 4,850 feet.

Equal to 0.919 miles.

10-inch Portland pipe, new	6,043 feet.
12-inch Portland pipe, new	2,174 "
15-inch Portland pipe, new	1,831 "
20-inch Portland pipe, new	2,300 "
24-inch Portland pipe, new	3,264 "

Total Portland pipe, new 15,612 feet.

Equal to 2.956 miles.

9-inch cement pipe	15,861 feet.
12-inch cement pipe	21,629 "
15-inch cement pipe	490 "
18-inch cement pipe	860 "
24-inch cement pipe	735 "
16 x 24 inches, cement pipe	1,697 "

Total cement pipe 41,272 feet.

Equal to 7.818 miles.

10-inch earthen pipe	1,175 feet.
12-inch earthen pipe	2,545 "

Total earthen pipe 3,720 feet.

Equal to 0.704 miles.

18-inch brick sewers	5,725 feet.
24-inch brick sewers	3,187 "
29-inch brick sewers	1,600 "
36-inch brick sewers	545 "
42-inch brick sewers	446 "
44-inch brick sewers	1,195 "
57-inch brick sewers	1,400 "
17 x 26 inches, brick sewers	1,506 "
20 x 30 inches, brick sewers	1,197 "
22 x 33 inches, brick sewers	387 "
24 x 36 inches, brick sewers	9,097 "
26 x 39 inches, brick sewers	514 "
29 $\frac{1}{4}$ x 44 inches, brick sewers	4,530 "
30 x 46 inches, brick sewers	1,360 "
32 x 48 inches, brick sewers	3,279 "
40 x 44 inches, brick sewers	790 "

Total brick sewers 36,758 feet.

Equal to 6.962 miles.

12-inch iron pipe	24 feet.
14-inch iron pipe	24 "
20-inch iron pipe	62 "
24-inch iron pipe	12 "
36-inch iron pipe	277 $\frac{1}{2}$ "

Total iron pipe 399 $\frac{1}{2}$ feet.

Equal to 0.075 miles.

48-inch steel pipe 312 feet.

Equal to 0.052 miles.

Total in all sewers 243,108 $\frac{1}{2}$ feet.

Equal to 46.043 miles.

The following shows the amount of concrete laid for the city in 1892, by Charles H. Robie and the Charles H. Robie Company. The measurements relating thereto have been made by this department and rendered as vouchers for the same.

STREET CROSSINGS.

	Sq. yds.	Price pr. yd.	Total cost.
Amory, at Main, 2	56.80	\$0.75	\$42.60
Arlington, at Russell	29.77	.75	22.33
Blodget, at Chestnut, 2	64.00	.75	48.00
Blodget, at Pine, 3	85.77	.75	64.32
Blodget, at Union	32.00	.75	24.00
Blodget south back, at Union	17.77	.75	13.33
Central, at Franklin, 2	63.00	.75	47.25
Concord, at Maple, 4	105.28	.75	78.96
Depot, near city yard	21.00	.37	7.77
Douglas, at West	21.30	.75	15.98
Elm west back, at Pleasant	17.77	.37	6.57
Ferry, at Second	44.40	.75	33.33
Granite, south of city yard	32.90	.37	12.17
Hanover, at Hall	39.10	.75	29.32
Lake avenue, at Elm east back	17.77	.37	6.55
Lake avenue, at Wilson	52.44	.75	33.33
Lowell, at Union east back	15.50	.37½	5.81
Manchester, at Hall, 2	30.00	.75	22.50
Marion, at Main	28.40	.75	21.30
Marion, at Main	28.40	.37	10.50
McGregor west back, at Marion	17.50	.75	13.12
Merrimack, at Wilson	21.33	.75	16.00
North, at Pine east back	13.33	.75	10.00
Orange, at Linden	30.22	.75	22.66
Pennacook, at Pine	17.77	.75	13.32
Pleasant, at Franklin	25.70	.37	9.51
School, at Third	31.10	.75	23.32
Valley, at Cypress, 3	92.88	.75	69.66
Walnut, at Gore	32.00	.75	24.00
Wayne, at Main, 2	57.60	.37	21.30
Webster, at Bay	30.22	.75	22.66
Totals	<u>1,172.95</u>		<u>\$791.47</u>

SIDEWALKS.

	Sq. yds.	Price pr. yd.	Total cost.
Depot, at city yard	\$64.22	\$0.25	\$16.05
Dover, at Granite	70.70	.35	24.74
Elm, north of Concord	33.33	.45	14.99
Franklin and Merrimack	543.00	.25	135.75
Granite, at city yard	187.50	.25	46.88
Hanover and Union, $\frac{1}{2}$ of bill	188.65	.25	23.58
Hanover and Union, $\frac{1}{2}$ of bill	309.83	.45	69.71
Hanover square	166.20	.45	74.79
Lake avenue, at schoolhouse	84.35	.25	21.09
Merrimack, at Perry A. Eaton's	28.00	.45	12.60
Nashua, at No. 28, $\frac{1}{2}$ of bill	31.00	.30	4.65
Nashua and Maple, at hose-house	277.55	.25	69.38
Pine, at Pennacook, Mr. Brooks	73.16	.45	32.92
Pine, at Blodget, Mr. Cheney's	71.33	.45	32.10
South Main, at Gordon Wood- bury's	73.90	.50	36.95
Totals	2,202.72		\$616.18

ROADWAYS.

	Sq. yds.	Price per yd.	Total cost.
Hanover, Union to Beech	1,409.90	\$0.75	\$1,057.43
Main, at Granite	28.10	.37	10.40
Maple, Merrimack to Central	1,788.40	.75	1,341.30
South Elm, at railroad bridge	150.66	.50	75.33
Union, Hanover to Amherst	946.51	.75	709.88
Union, Amherst to Concord	1,170.17	1.00	1,170.17
West, Douglas northerly	331.44	.75	248.58
Totals	5,825.18		\$4,613.09

MISCELLANEOUS.

	Sq. yds.	Price pr. yd.	Total cost.
Belmont, driveway at Geo. W. Rief's	8.66	\$0.37	\$3.20
Lake ave., at engine-house	99.00	.45	44.55

	Sq. yds.	Price pr. yd.	Total cost.
Lake ave., at ward-room . . .	18.33	\$0.45	\$8.25
Maple and Myrtle, gutters at J. A. Weston's, one half of bill	197.50	.75	74.09
Maple, at hose-house . . .	132.20	.25	33.05
Pine Grove cemetery, roadway	1,117.20	.65	726.18
Tremont square	30.33	.45	13.65
Union, at Mrs. Wallace's . . .	12.33	.45	5.55
Webster street, schoolhouse . .	339.92	.45	152.96
Webster street, schoolhouse . .	76.48	.25	19.12
Totals	2,031.95		\$1,080.60

The following table shows the amount of concrete laid for the city in 1892 by George F. Higgins. The measurements relating thereto have been made by this department and rendered as vouchers for the same.

STREET CROSSINGS.

	Sq. yds.	Price pr. yd.	Total cost.
Amory, at Cartier	33.77	\$0.75	\$25.33
Cartier east back, at Amory . .	17.77	.75	13.33
Central, at Milton	26.66	.75	20.00
Central, at Hall	33.77	.75	25.33
Chestnut, at Lowell south back	17.77	.75	13.33
Chestnut, at North	38.33	.75	28.75
Chestnut east back, at North . .	18.22	.75	13.67
Elm, north of Washington, 2 . .	75.50	1.50	113.24
Elm, south of Bridge	75.50	.75	56.62
Elm, at North, 2	168.60	.75	127.99
Elm east back, at Pearl	17.77	.75	13.33
Elm west back, at Bridge	26.60	.75	19.95
Elm avenue, at Elm	25.50	.75	19.12
Kidder court, at Elm	35.97	.75	26.98
Lake ave., at Chestnut west back	24.44	.75	18.33
Lowell south back, at Pine . . .	20.00	.75	15.00
Maple, at Amherst, 2	72.47	.75	54.36
Orange, at Elm east back	26.66	.75	20.00

	Sq. yds.	Price pr. yd.	Total cost.
Pearl, at Russell, 4	141.15	\$0.75	\$105.86
Pleasant, at Franklin, 2	83.10	.75	62.32
Sagamore, at Pine, 4	163.31	.75	122.48
Sullivan, at Beauport	33.70	.75	25.26
Union, at Pennacook	30.20	.75	22.65
Totals	1,206.76		\$963.23

MISCELLANEOUS.

	Sq. yds.	Price pr. yd.	Total cost.
Franklin street, schoolhouse	283.52	\$0.33	\$93.56
Main street, schoolhouse	136.61	.45	61.47
North, at Elm	4.20	.45	1.89
Pearl, at Nos. 28-42, 1/2 of bill	45.63	.45	10.26
South Manchester, schoolhouse	69.36	.45	31.21
West Webster, at new depot	73.50	.75	55.12
Totals	612.82		\$253.51

SUMMARY.

Concrete laid by Chas H. Robie and the Chas. H. Robie Co.

Crossings	1,172.95 sq. yds.	\$791.47
Sidewalks	2,202.72 " "	616.18
Roadways	5,825.18 " "	4,613.09
Miscellaneous	2,031.95 " "	1,080.60
Totals	11,232.80 sq. yds.	\$7,101.34

Concrete laid by Geo. F. Higgins.

Crossings	1,206.76 sq. yds.	\$963.23
Miscellaneous	612.82 " "	253.51
Totals	1,819.58 sq. yds.	\$1,216.74

Total concrete laid by the city, 13,052.38 sq. yds., \$8,318.08.

BRIDGES.

The following table gives the dimensions, material, and number of spans of the various bridges within the city limits.

LOCATION.	Length in feet.	Width of roadway	No. of walks.	Width of walks.	Material.	Arch- es or spans.
Amoskeag	765.5	20	1	5.5	Wood.	3
Bridge street, at canal	57	22.5	2	7	Iron.	1
Bridge st., McGregor and approaches	1,085	24	2	6	"	3
Cohas avenue, at Great Cohas.....	36	30.5	.....	.....	Stone.	2
Derry road, at Great Cohas.....	38	20	.....	.....	Wood.	1
Derry road, near Cohas avenue.....	20	17	.....	.....	"	1
Derry road, near town line.....	21	20.5	.....	.....	"	1
Dunbarton road, Black brook	25	17.5	.....	.....	"	1
Elm street, at railroad	89	29.5	1	4.5	"	1
Front street, Black brook.....	16.5	33	.....	.....	"	1
Granite street, at canal.....	56.3	37.3	2	6	Iron.	1
Granite street, at river.....	465.7	26	2	5	Wood.	3
Harvey road, at Great Cohas.....	32	21	.....	.....	"	1
Island Pond road, outlet to lake	41	16.7	.....	.....	"	1
Main street, at Piscataquog river.....	70.5	20.8	1	5	"	1
Mammoth road, at Great Cohas.....	38	18	.....	.....	"	1
Mammoth road, near town line.....	14	20	.....	.....	"	1
Mill road, at Harvey's mill.....	59	20.5	.....	.....	"	3
Parker street, at railroad.....	53	24	2	6	Iron.	1
River road, at Goffe's Falls.....	30	30	.....	.....	Wood.	1
River road, at Little Cohas	16	20	.....	.....	"	1
River road, below James Cheney's....	6	16	.....	.....	"	1
South road	12	22	.....	.....	"	1
Webster road, at water-works dam....	100	17.5	.....	.....	"	5
Weston road, east of D. Connor's....	6	16	.....	.....	"	1

Stone bridges, 1; iron, 4; wood, 20; total, 25.

NEW HIGHWAYS LAID OUT IN 1892.

STREET.	LOCATION.	When laid out.	Width in feet.	Length in feet.
Adams.....	Appleton to Clarke	July 26.	50	925
Amory extension	Amory to Bartlett	July 26.	50	735
Auburn	Wilson easterly	Aug. 15.	50	660
Auburn	Belmont westerly	Aug. 15.	50	149
B.	Prince to C.	Jan. 15.	40	258
B.	A to Milford	Jan. 15	40	303
Bartlett.....	Amory extension to Putnam.....	July 26.	50	1,059
Bell	Wilson easterly	Aug. 15.	50	636
Bennett boul.....	Cartier to Amory.....	May 20.	50	3,110
Blaine	Second to Hiram.....	May 20.	50	395
Brown ave*	Baker to Hancock.....	June 27.	50	1,074
Brown ave*	Baker southerly.....	July 6.	50	775
Campbell.....	Union to Ash	Sept. 26.	50	860
Canal	82 ft. north of Pleasant to Granite.	Jan. 15.	50	1,023
Canton	Spruce to Auburn	Oct. 25.	40	550
Cedar	Wilson to east of Hall.....	Aug. 15.	50	665
Central	James Hall road westerly	July 6.	40	304
Central so'th back	Wilson to Hall.....	June 7.	20	471
Chestnut*	Hanover to Amherst.....	July 5.	53	246
Cleveland	Blaine to Merrimack river	May 20.	40	1,487
Conant	West to Dubuque.....	Oct. 25.	50	527
Cypress	Lake avenue to Auburn.....	Dec. 28.	50	810
Dearborn	Summer to Taylor.....	May 20.	40	574
Dubuque	Conant northerly.....	May 20.	50	600
Gilman	Wilson to east of Hall.....	Aug. 15.	50	648
Gilman	Belmont westerly	Sept. 9.	50	161
Glenwood ave....	Mammoth road to J. Cronin's.....	Dec. 28.	50	† 2,085
Hall	Spruce to Bell	Aug. 15.	50	1,620
Hall	Young street to Young road.....	July 6.	50	125
Hampton	Wilson to east of Hall.....	Aug. 15.	50	642
Hampton	Belmont westerly	Sept. 9.	50	167
Hampton	Taylor westerly	Oct. 28.	50	257
Harrison	Russell to Belmont.....	Oct. 25.	50	1,518
Harvard	Union to Maple	June 7.	50	1,190
Hevey	Kelley to Bennett boulevard.....	July 6.	50	1,165
High'ndPark ave	Candia road to Glenwood ave.....	Dec. 28.	50	† 1,007
Liberty	North, southerly	April 26.	46	150
Lincoln	Cedar to Shasta.....	May 20.	50	4,321
Linden	Prospect to Harrison	Oct. 25.	50	245
Longwood ave....	Mammoth road to Woodbine ave.....	Dec. 28.	50	† 1,100
Mitchell	Brown ave. to Calef road.....	Nov. 28.	50	1,740
Mystic ave	Candia road northerly.....	Dec. 28.	50	† 1,200
Oakland ave	A. W. Palmer's to J. Cronin's	Dec. 28.	50	† 1,500
Orchard ave	Candia road to C. & P. R. R.....	Dec. 28.	50	† 1,337
Revere ave	Candia road to C. & P. R. R.....	Dec. 28.	50	† 1,200
Rimmon	310 ft. north of Wayne to 210 ft south of Wayne	Sept. 26.	50	570
Silver	Union to Maple.....	June 7.	50	1,190
Somerville	Union to Hall.....	May 20.	50	2,925
Stevens	Baker southerly.....	Nov. 28.	50	300
Summer	Wilson easterly.....	Aug. 15.	50	655
Summer	Belmont westerly	Sept. 9.	50	154
Trenton	Elm to Union	May 20.	50	4,175
Union	Auburn to Nutt road.....	Oct. 25.	50	4,175
Walnut	Salmon to Webster.....	May 20.	50	1,183
Wayland ave	Mammoth road to Revere ave.....	Dec. 28.	50	† 562
Wilkins	Rockland ave. to Bedford line	July 6.	40	595
Wilson	North line of C. & P. R. R. to Clay.	July 26.	50	1,800
Woodbine ave	Candia road to C. & P. R. R.....	Dec. 28.	50	† 1,290
Woodland ave	C. & P. R. R. to James Dearborn's	Dec. 28.	40	† 770
Young	Wilson to Hall.....	July 6.	50	511
Young	Mason to Mammoth road.....	May 20.	50	1,036
.....	Central to Pleasant	June 7.	50	192
				60,980

* Widening.

† Distances as given on petition.

SUBURBAN HIGHWAYS.

The matter of defining and establishing the boundary lines of the suburban highways still remains unsettled. Each succeeding year is making it more difficult to retrace and relocate old points, and it is but a question of time when they will be entirely destroyed, and the correct lines become a doubtful quantity. On many of the roads the abutters are constantly encroaching upon city land, thoughtlessly, perhaps, but still with each successive improvement taking in more and more of the highway. It has been the aim of this department to secure what data could be had in relation to these roads, and mark the lines as fast as possible, but regular work has prevented any systematic attempt to straighten matters out. This is a very important item, and should receive immediate attention by providing means for a complete survey of all the outlying roads while the points still remain.

It hardly seems good judgment, in view of the rapid growth of the city and the constantly increasing traffic, to narrow a four-rod road to a fifty foot street whenever the bounds are established. This has been done in the past, but should not be the future policy.

STREETS.

The same may be said this year as has been said in previous reports in regard to laying out streets twenty-five, thirty, or thirty-five feet wide. This evil still exists, and will continue to exist so long as there are land-owners who care for nothing but to sell every inch of land possible, regardless of whether the adjoining streets are of sufficient width to accommodate traffic or not. We have streets in the city dignified by the name of avenues where it is impossible to turn a truck team or dray without running upon the sidewalks. This method of dividing land is advantageous to property owners, but scarcely in keeping with modern ideas.

There are those, however, who keep abreast of the times, and recognizing the necessity of broad thoroughfares, have divided their property accordingly. It would be better for the appearance of the city if there were more of them.

There is an urgent need of some action being taken looking to regularity in setting apart land for streets, either by an ordinance or by the appointment of a commission for that purpose. As it is now, each land-owner can put a street where he pleases, regardless of how it compares with those adjoining as to direction or distance therefrom. By preparing a plan showing the location of proposed streets, and compelling land-owners to adhere to it, the city would be rid of the interminable jumble of streets, lanes, and alleys running in all directions, confusing to a stranger and detracting greatly from the beauty of the city and the efficiency of the highways as means of communication.

It is time this matter received serious attention, as each year sees a material growth of the city in the outlying districts, and a consequent addition of numerous narrow, crooked, and almost useless highways, called by the high-sounding name of avenues, which are but monuments to some one's cupidity and avarice.

Building new streets that have been laid out is quite an important matter, and one requiring the exercise of good judgment. The idea is not how many yards can be built, but how much can be built to last. It may not show up so well to an unthinking person, but it is more than folly to half do the work, and then have to go over it the next year and each succeeding year. Far better build one yard that will stand than ten that it is impossible to haul a heavy load over.

The practice in many cities is for the property owner who desires a street through his land, to build it to an established grade before the city will accept it. They also require the land to be given to, instead of being purchased by, the city, sometimes at exorbitant rates. They argue that as the owner derives the benefit through the increased valuation of his land, it is for his interest to do so.

Manchester is considerably behind the times in these two important features of economical city administration.

SEWERS.

Under the present system it is impossible to construct all the sewers asked for each year, and the committee have followed out

the policy of building those there seemed to be the greatest need of. Under their direction considerable progress has been made along the line of improvement. As soon as the right can be acquired from the legislature to issue bonds, the extensions will be pushed more rapidly.

The new ordinances adopted by the city councils relating to sewers and sewer entering, have worked satisfactorily, the plumbers readily falling into the new order of things. Entrances are now required to be made by a Y branch, and breaking into a piece of pipe is strictly prohibited. The city furnishes the Y branch free of charge, and the plumber is required to remove a length of pipe to admit it. That part of the ordinance requiring a return to be made to this department of all connections made has not been wholly lived up to, as out of 214 sewer permits issued but 89 returns have been received.

A detailed statement of the work done during the year is given in the following report, prepared by the city engineer, as clerk of the committee on sewers and drains :

MANCHESTER, N. H., December 30, 1892.

Gentlemen of the City Councils :

The committee appointed by your honorable board to superintend the construction and repairs of sewers and drains would submit the following report of their doings for the present year.

At the opening of the season there were twenty-seven orders for sewers, already voted in but not built ; of these, fifteen have been completed. During the year thirty-three orders have received favorable action, and out of this number, eighteen sewers have been built. At the present time there are orders for twenty-seven sewers which have passed your board but which have not been constructed.

The committee has held nine meetings and considered forty-eight petitions. Of this number, thirty-three have been acted favorably upon, and the report and an order recommending their construction have been presented your board. The remaining fifteen were given leave to withdraw.

The most important sewer constructed during the year on this side of the river has been the Massabesic-street main. Consider-

able talk has been indulged in by residents of that locality and others as to the reason for laying the pipe to such a depth.

This sewer is designed to be the main for that section and, when completed, will extend to the Mammoth road, draining about three hundred acres east of Jewett street. The major portion of this is very low and flat, particularly so along Porter street, where a sub-main is designed to be laid. In order to obtain the necessary grade and still be low enough to properly drain the entire section, the depth aforesaid was a necessity. As there are but few houses at present east of Jewett street the committee deemed it advisable to raise the grade so as to clear the ledge and lay a temporary sewer to care for the houses on Jewett street.

On the west side, the South Main-street main has been completed to C street, with laterals on A and C streets. The North Main-street main has been relaid to Amory street, with sub-mains on Amory street, Coolidge avenue, and Kelley street, draining that section of McGregorville.

By an arrangement with the Amoskeag Manufacturing Company the excavating and back filling were done by their workmen, the only expense to the city being the cost of the pipe and laying, and the services of the engineer.

The following table shows the different sewers built, their length, cost, and the cost per foot to build the same.

(See table of new sewers built.)

The average cost per foot in District No. 2 has been \$2.22, while that in District No. 10 has been but \$1.88. This difference is due to the nature of the soil on the west side. The greater part of the sewer excavation was through sand, easily worked but still firm enough to stand with but slight bracing. On this side nearly all the sewers were laid through a kind of clayey gravel, quite difficult to remove without considerable exertion.

The average cost per foot in 1891 was \$2.50.

In the 16,941 feet of sewers there were built 66 manholes and 11 lampholes; 74 cesspool connections were put in besides the Y branches for 508 house connections.

There have been 101 cesspools built, at a cost of \$2,806, and 60 repaired, at a cost of \$387.43.

The cost of repairs on sewers has been \$229.82.

From the monthly pay-roll the following shows how the cost has been divided :

MONTH.	Labor.	Castings, repairs, and black-smithing.	Pipe.	Brick.	Incidentals.	Cement.	Freight charges.	Lumber.	Hard-ware.	Total.
January.....	\$231.08	.....	.....	.....	\$5.25	.....	.....	.....	\$9.15	\$248.48
February.....	354.05	\$9.44	.....	.....	15.50	.....	.....	.....	3.87	382.86
March	310.84	7.53	.....	.....	12.80	.....	.....	.....	4.32	335.49
April.....	242.28	1.35	.....	.....	3.79	.....	.....	.....	16.81	261.23
May.....	1,499.89	60.58	\$356.50	.....	74.10	\$238.44	.....	\$93.49	324.43	2,653.43
June.....	5,689.40	199.35	331.13	\$252.00	67.54	146.84	\$36.70	69.57	66.42	6,850.55
July.....	4,383.26	159.77	659.98	.....	45.71	.....	171.58	69.77	53.48	5,513.58
August.....	5,976.69	180.49	1,254.41	.....	263.33	173.62	166.80	307.71	191.13	8,511.18
September. . .	5,245.07	207.29	675.83	588.00	177.14	207.17	75.20	211.11	104.62	7,491.46
October.....	4,094.38	370.28	132.10	.....	13.78	165.54	58.40	47.60	37.28	4,859.36
November.....	1,599.01	98.65	175.54	.....	80.07	19.28	23.60	31.51	9.90	2,037.57
December.....	492.04	21.54	.....	.....	12.78	8.10	.....	.....	.....	534.46
	\$30,120.99	\$1,322.38	\$3,585.49	\$810.00	\$771.82	\$898.99	\$532.28	\$89.79	\$821.41	\$39,724.65

The stock on hand is as follows :

Brick in District No. 2, 5,300, valued at	\$36.57
Pipe on hand, 820 feet, valued at	212.65
Branches on hand, 182 pieces, valued at	157.84
Bends on hand, 74 pieces, valued at	61.02
	<hr/>
Total	\$468.08
Appropriation for 1892	\$30,000.00
Transfer	2,293.26
	<hr/>
Total	\$32,293.26
Total expenses for the year	\$39,724.65
Overdraft	7,421.39

Two hundred and fourteen sewer permits have been granted during the year and returns made by plumbers of 89 house connections.

It is with much sadness that your committee refers to the one break in our ranks during our term of office, this being occasioned by the death of Alderman Andrew J. Dickey, who died suddenly on the morning of December 12, from an apoplectic shock from which he suffered the preceding day.

The city government never contained a more tireless or zealous worker for the good of the community than Alderman Dickey. Prompt in his attendance upon meetings, considerate of the wants of all, fair minded, and impartial. We pay this deserved tribute to the memory of one who was our worthy associate, our adviser, our counselor, and our friend.

Respectfully submitted.

JOHN J. HOLLAND,
A. D. MAXWELL,
GEORGE M. CLARK,
A. J. PEASLEE,

Committee on Sewers and Drains.

W. H. BENNETT,

Clerk of Committee.

PUBLIC PARKS.

A costly plan of Stark park has been received from the office of Morton and Quimby, landscape gardeners of Boston, showing the design to be followed in laying out the grounds. Nothing has been done as yet except cut the grass and trim the trees.

In Derryfield park the grove has been cleaned up, and seats added. It is already becoming a popular resort during the warm summer days.

Mr. John Fullerton has had charge of the work in the various parks and squares, and under his careful eye everything has been well attended to.

STREET LINES AND GRADES.

With the rapid extension of the city the calls for lines and grades increase, and this department is taxed to its utmost to attend to them all. Oftentimes persons are compelled to build hap-hazard, as no time can be spared to prepare plans of the street. This brings up the method previously spoken of, that is, of requiring the streets to be built to grade before being accepted by the city; also a point advocated in former reports, that a complete plan of the street should be prepared, showing the lines and grades, the same to be presented for consideration at the time the street is laid out. With these done the department could work to better advantage, and possibly silence those who make it a point to find fault because their wants are not attended to immediately, regardless of the fact that the department has no data for the work.

INDEXING.

In the matter of indexing plans, notes, and records, great improvements have been made. The card index of plans has been in use for two years, and has more than paid its cost in the time saved in looking up a plan. The old field book indices, not being large enough to properly enter the various items, were entirely overhauled. Larger books were made, the work recopied, and provisions made for years to come. Each street has a por-

tion of the book to itself instead of being mixed up with other streets beginning with the same letter.

Small plan indices have also been prepared of the laid-out streets, improved streets, plans and profiles, sewer plans, and numbering plans.

All the indices have been reduced to a system, and greatly enhance the efficiency of the office.

SUGGESTIONS.

The finance committee, grasping the situation as outlined in the last report, made provisions for the employment of an additional assistant by an increased appropriation. This gave an opportunity to keep one man in the office all of the time, and proved of great convenience to persons having business with this department.

The coming season promises to be an active one in every line, and the necessity of an increase in the force is apparent. The rapid extension of streets, and consequent increase in building operations, call for more work than the present force can attend to, and still keep up the regular routine work. If the appropriation could be made large enough, another party would be put into the field, and the work kept well in hand.

Aside from this comes up the matter of compensation. It is an acknowledged fact that this city pays ridiculously low salaries as compared to other places of like size and importance. It is out of the question to think of keeping a man, skilled in the profession and understanding the details of city work, while other places are holding out inducements greatly in advance of Manchester. It would seem good policy to keep such a man here rather than handicap the efficiency of the department by employing those unfamiliar with the work just because the city will not pay what he is worth. It is hoped the incoming city council will view the matter in its proper light, and make provisions accordingly.

COMMITTEE WORK.

At the first meetings held by the committees on streets and on sewers and drains, the city engineer was elected clerk, as in pre-

vious years, and in that capacity has attended each meeting, keeping a complete record of the proceedings, which are on file in this office.

In addition, meetings have been attended of the city government, committees on the Amoskeag cemetery, Valley cemetery, Pine Grove cemetery, city farm, finance, lands and buildings, claims, commons, parks, and the board of aldermen.

Besides the work before enumerated, many questions have been answered from engineers, boards of trade, and others in various cities throughout this country and Canada.

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, 1893.

REPORTS OF DISTRICT SURVEYORS.

Report of the work done in the various highway districts during the year 1892 :

District No. 1.

No report.

District No. 2.

WILLIAM SANBORN, SUPERINTENDENT.

COBBLE GUTTER PAVING.

STREET.	Sq. yards.	No. loads.	Cost per load.	Cost of stone.	Cost of labor.
Arlington and Linden	167	22	\$1.70	\$37.40	\$38.41
Belmont, Manchester to Hanover.....	147	17	1.70	28.90	33.81
Chestnut and Central	34	4	1.70	6.80	7.82
Chestnut and Pennacook.....	94	12	1.70	20.40	21.62
Coneord and Maple	17	2	1.70	3.40	3.91
Derry	225	20	1.70	34.00	51.75
Franklin, Granite to Auburn.....	150	35	1.70	59.50	34.50
Hall	150	32	1.70	54.40	34.50
Hanover and Hall.....	35	5	1.70	8.50	8.05
Lake avenue and Canton	110	13	1.70	22.10	25.30
Laurel and Hall	141	11	1.70	18.70	32.40
Lowell and Ashland	278	34	1.70	57.80	63.94
Maple and Lake avenue.....	241	28	1.70	47.60	55.43
Merrimack, Beech to Maple.....	400	36	1.70	61.20	92.06

COBBLE GUTTER PAVING.— *Continued.*

STREET.	Sq. yards.	No. loads.	Cost per load.	Cost of stone.	Cost of labor.
North and Elm	92	11	\$1.70	\$18.70	\$21.16
North near Union	278	33	1.70	56.10	63.94
Pearl and Russell	83	10	1.70	17.00	19.09
Pine and Blodget.....	17	2	1.70	3.40	3.91
River road near Mrs. Eastman's	33	4	1.70	6.80	7.59
Sagamore and Bay.....	183	22	1.70	37.40	42.09
Spruce, Pine to Maple.....	469	58	1.70	98.60	107.87
Spruce, Lincoln to Wilson.....	418	54	1.70	91.80	96.14
Union, Hanover to Amherst	161	16	1.70	27.20	37.03
Union and Concord	50	6	1.70	10.20	11.50
Union and Pearl.....	73	9	1.70	15.30	16.79
Union and Brook, twice	88	9	1.70	15.30	20.24
Totals	4,134	505	.....	\$858.50	\$950.79

Total cost of the foregoing work, \$1,809.29; an average cost of \$0.437 per square yard.

EDGE STONES SET.

Arlington and Ashland	30 feet.
Arlington and Linden	16 "
Auburn, near Union	102 "
Beech	60 "
Beech and Hanover	54 "
Beech and Concord, set twice	18 "
Blodget and Pine	34 "
Bridge and Ashland	21 "
Bridge and Russell	16 "
Brook and Hazel	18 "
Cedar and Union	50 "

Central, between Elm and Chestnut	98 feet.
Central and Pine	252 "
Chestnut and Concord	19 "
Chestnut and North	20 "
Concord, Union east back to Walnut	100 "
Concord and Maple	492 "
Elm, Kidder to Bridge	76 "
Elm, near Bridge	54 "
Elm and Webster	3 "
Elm west back and West Central	217 "
Elm west back, near Bridge	20 "
Franklin, near Granite	62 "
Franklin and Central	30 "
Franklin and Pleasant	75 "
Gore and Walnut	36 "
Hanover, near Pine	56 "
Hanover and Union	350 "
Hanover and Hall	24 "
Lowell, near Elm	12 "
Lake avenue and Chestnut	40 "
Lake avenue and Hall	40 "
Lake avenue and Canton	19 "
Linden and Arlington	120 "
Manchester and Hall	21 "
Maple, Merrimack to Lake avenue	500 "
Maple and Amherst	21 "
Merrimack, west of Union, set three times	26 "
Merrimack and Wilson	20 "
Nashua and Concord	404 "
North and Elm	110 "
Oak and Myrtle	20 "
Orange and Elm	255 "
Orange and Linden, set twice	21 "
Pearl, Elm east back and Pearl south back	240 "
Pearl and Russell	74 "
Pennacook and Union	17 "
Pine and Lake avenue	75 "

Pine and Laurel	168 feet.
Pine and Salmon	19 "
Sagamore and Pine	77 "
Salmon and Chestnut	20 "
Spruce, Pine and Pine east back	228 "
Union, Hanover to Amherst	656 "
Union and Brook	98 "
Webster and Bay	20 "
Webster and Chestnut	157 "
Welch avenue	50 "
Wilson and Lake Avenue	28 "
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Total	5,959 feet.

Total cost of the foregoing work, \$692.84, an average cost of \$0.116 per foot.

EDGE STONES RESET.

Amherst, near Union	25 feet.
Blodget and Union	75 "
Bridge, near Union	14 "
Canal, Granite to Depot	300 "
Central, west of Elm	75 "
Chestnut and Central	100 "
Elm, near Hanover	50 "
Elm, near Bridge	140 "
East High, near Ashland	20 "
Granite, between Franklin and Canal	200 "
Lowell, near Elm	44 "
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Total	1,043 feet.

Total cost of the foregoing work, \$110.66, an average cost of \$0.106 per foot.

In setting edge stones, there were used 27 six-foot, 35 four-foot, and 15 three-foot circular corner stones.

PAVING RELAID.

Auburn and Franklin	50	sq. yds.
Bridge and Elm	65	"
Canal and Depot	220	"
Concord and Maple	58	"
Elm	2,820	"
Granite, near bridge	266	"
Hanover, Union to Beech, twice	340	"
Lake avenue and Hall	33	"
Merrimack and Hall	128	"
Nashua and Concord	90	"
Pearl avenue	14	"
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Total	4,084	sq. yds.

Total cost of the foregoing work, \$743.29, an average cost of \$0.182 per square yard.

MACADAMIZING.

STREET.	Lengths in feet.	Square yards.	No. loads stone.	Price per load.	Cost of stone.	Labor of men and teams.	Incl. details.	Total cost.
Bay, North to Webster.....	.....	.....	212*	\$0.25	\$53.00	.....	.....	.....
Bay, North to Webster.....	580	2,667	317	.60	190.20	\$800.12	\$60.80	\$1,104.12
Belmont, Manchester to Hanover.....	208	978	160	.60	96.00	89.60	35.90	221.50
Franklin, Granite to Auburn.....	534	1,667	465	.60	279.00	1,050.94	80.25	1,410.19
Hall, Lake avenue to Central.....	220	775	260	.60	156.00	500.75	45.25	702.00
North, Pine to Union.....	.....	.....	107*	.25	26.75	.....	.....	.....
North, Pine to Union.....	446	1,686	195	.60	117.00	580.00	38.67	772.42
Spruce, Lincoln to Wilson.....	.....	.....	208†	.63	131.04	.....	.....	.....
Spruce, Lincoln to Wilson.....	542	3,063	211	.60	126.60	916.16	85.67	1,259.47
Totals.....	2,530	10,816	2,135	.....	\$1,175.59	\$3,917.57	\$346.54	\$5,469.70

* Ledge chips.

† Stone from gravel pit.

TOP DRESSING.

STREET.	Square yards.	No. loads per stone.	Price per load.	Cost of stone.	Labor of men and teams.	Incidentals.	Total cost.
Bell, Wilson easterly	1,000	90	\$0.60	\$54 00	\$128.04	\$10.00	\$192.04
Central, Canal to Franklin.....	4,150	160	.60	96 00	170.00	27.75	293.75
Chestnut, Concord to Lowell.....	1,778	75	.60	45 00	40.00	12.20	97.20
Franklin, Granite to Market.....	5,000	180	.60	168 00	105.25	33.30	246.55
Hanover, Chestnut to Union	5,556	175	.60	195.00	90.50	30.53	226.03
Hanover, Beech to Maple.....	3,333	.....	.....	.....	90.00	.....	90.00
Lowell, Elm to Chestnut.....	2,667	75	.60	45.00	45.75	12.63	102.78
Market, Elm to Franklin.....	1,351	35	.60	21.00	40.26	4 63	65.89
General repairs .....	.....	850	.60	510.00	786 94	166.50	1,463.44
Totals.....	24,835	1,640	\$0.60	\$684.00	\$1,486.74	\$296 94	\$2,777.68

CONCRETE ROADWAYS.

STREET.	Length in feet.	Square yards.	Price per yard.	Cost of concrete	Sq. yds. earth removed	No. loads stone.	Cost of stone.	Inci. dentals.	Labor of men and teams.	Total cost.
Hanover, Union to Beech	552	1,409.90	\$0.75	\$1,057.43	1,778	276	\$165.60	\$54.21	\$484.50	\$1,761.74
Maple, Merrimack to Central	510	1,788.40	.75	1,341.30	2,128	280	168.00	54.10	471.50	2,634.90
Merrimack, Beech to Maple * .....	.....	.....	.....	.....	2,133	.....	.....	18.12	529.34	547.46
Union, Hanover to Amherst	319	946.51	.75	709.88	2,065	.....	.....	13.81	146.42	870.11
Union, Amherst to Concord	340	1,170.17	1.00	1,170.17	2,232	.....	.....	14.78	156.08	1,341.03
Totals	1,721	5,314.98	.....	\$4,278.78	10,366	556	\$333.60	\$155.02	\$1,787.84	\$6,555.24

* Prepared for concrete only.

SUMMARY.

	Sq. yds.	Loads stone.	Total cost.
Macadamizing	10,816.00	2,135	\$5,469.70
Top-dressing	24,835.00	790	1,314.24
General repairs		850	1,463.44
Concreting	5,314.98	556	6,555.24
Crushed stone on hand		60	118.77
Totals	40,965.98	4,391	\$14,921.39

STREETS GRADED.

STREET.	Cut or fill.	Cubic yards.	Labor of men and teams.	Incidentals.	Total cost.
Belmont, south of Manchestr	Cut...	346	\$100.38	\$3.46	\$103.84
Brown avenue	Fill...	336	67.20	5.19	72.39
Cedar, west of Lincoln.....	Cut...	311	35.88	3.11	38.99
Cheney place	Both..	518	48.00	5.18	53.18
Chestnut, north of Appleton..	"	3,000	573.75	*64.50	638.25
Elm extension, south.....	"	2,222	250.00	22.22	272.22
Hall, south of Lake avenue....	"		35.00	20.00	55.00
Hall, north of Orange.....	Fill...	184	66.00	1.84	67.84
Liberty, south of Salmon.....	Both..	278	56.80	2.78	59.58
Lincoln, south of Young.....	"	3,858	474.60	38.58	513.18
Lincoln, north of Cedar.....	Cut...	126	16.20	1.26	17.46
Maple, at culvert.....	Fill...	14,475	2,364.60	†963.00	3,327.60
Myrtle, east of Linden.....	Both..	2,197	312.00	21.97	333.97
Old Bridge	"	580	116.00	5.80	121.80
Orange, east of Hall.....	"	378	47.50	3.78	51.28
Pearl, east of Ashland.....	Cut...	945	62.73	9.45	72.18
Sagamore, west of Union.....	"	378	125.84	3.78	129.62
Sagamore, east of Union.....	Both..	163	65.00	1.63	66.63
Salmon, east of Union.....	"	3,648	333.30	36.48	369.78
Silver, Beech to C. & P. R. R..	Cut...	310	32.40	3.10	35.50
Spruce, east of Beech.....	"	126	29.52	1.26	30.78
Union, north of Salmon.....	Both..	800	322.00	8.00	330.00
Union, north of Appleton.....	Fill...	201	96.00	2.01	98.01
Union east back, near Webster	"	92	52.00	.92	52.92
Valley, east of Elm.....	Both..	252	57.60	2.52	60.12
Valley, west of Beech.....	Cut...	1,027	102.40	10.27	112.67
Valley, west of Wilson.....	Fill...	333	11.10	3.33	14.43
Walnut, north of Gore.....	Both..	1,448	628.00	14.48	642.48
Walnut, north of Salmon.....	Fill...	2,422	642.82	24.22	667.04
Webster, west of River road..	Both..	1,185	192.00	11.85	203.85
Webster, east of Union.....	Cut...	277	39.40	2.77	42.17
Wilson, south of Valley.....	"	252	8.40	2.52	10.92
Wilson road, near Lowell.....	Fill...	222	43.20	2.22	45.42
Young	Both..	2,370	333.40	23.70	357.10
Totals.....		45,260	\$7,741.02	\$1,327.18	\$9,068.20

* Including \$34.50 paid Horace Holbrook for gravel.

† Including \$18.25 paid Head & Dowst Co. for 3,273 loads.

STREETS GRAVELED.

Amherst, east of Ash	1,200 feet.
Ashland	700 "
Auburn	100 "
Baker	500 "
Beech	750 "
Calef road	850 "
Central	400 "
Cheney place	450 "
Concord	1,000 "
Derry	350 "
Dutton	450 "
Laurel	500 "
Lincoln	200 "
Manchester	750 "
Maple	500 "
Merrimack	2,200 "
Mitchell	500 "
Nutt road	800 "
Pearl	300 "
Pine	1,220 "
Sagamore	300 "
South Elm	1,930 "
Spruce	350 "
Union	2,425 "
Valley, west of Wilson	350 "
Walnut	200 "
Webster	320 "
Young	550 "
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Total	20,145 feet.

STREETS TURNPIKED WITH ROAD-MACHINE.

Arlington	1,110 feet.
Ash	1,445 "
Beech	9,141 "

Blodget	1,428 feet.
Bridge	1,676 "
Brook	1,497 "
Calef road	4,630 "
Central	2,083 "
Chestnut	1,022 "
Cilley	2,242 "
Gore	835 "
Hall	223 "
Harrison	2,505 "
Hazel	385 "
Lake avenue	2,885 "
Liberty	740 "
Lincoln	480 "
Linden	840 "
Lowell	444 "
Maple	2,233 "
Myrtle	3,869 "
Nashua	380 "
North	924 "
Oak	1,768 "
Orange	3,770 "
Pearl	3,105 "
Pennacook	1,428 "
Pine	5,476 "
Prospect	2,726 "
River road	7,381 "
Russell	1,120 "
Sagamore	508 "
Salmon	447 "
Silver	998 "
Spruce	2,240 "
Union	1,800 "
Walnut	1,385 "
Warren	446 "
Webster	2,090 "
Wilson	480 "
Total	80,185 feet.

GRADING FOR CONCRETE.

STREET.	Length in feet.	Width in feet.	Feet cut.	Feet fill.	Cost.
Arlington, east of Linden.....	150	8	.....	1	\$17.21
Arlington, west of Linden.....	360	8	2	.....	81.85
Ash.....	25	8	.....	3	9.80
Ash, north of Harrison.....	50	8	.....	2	11.47
Ashland, north of Lowell.....	100	8	.....	1.5	17.21
Ashland, Bridge northerly.....	150	8	.....	3	51.59
Baker.....	237	8	.....	1.5	46.66
Bay, north of North.....	100	8	2	.....	22.95
Belmont, north of Merrimack.....	150	8	1	.....	17.21
Blodget, west of Union.....	59	8	.....	0.5	2.68
Brown avenue, south of Hancock.....	150	8	5	.....	63.87
Brown avenue, south of Hancock.....	525	8	.....	2.75	163.73
Canton, Lake avenue southerly.....	75	8	1	.....	8.61
Central, betw'n Franklin and Canal.....	100	8	1	.....	17.22
Cheney place.....	65	8	.....	2	14.92
Chestnut, north of Appleton.....	150	8	1	.....	20.25
Derry.....	100	8	1	.....	9.95
Elm, north of railroad bridge.....	640	8	.....	0.5	36.35
Elm, Kidder court northerly.....	100	12	.....	1	17.21
Hall, south of Merrimack.....	220	8	.....	1	24.86
Hamilton, west of Brown avenue.....	150	8	.....	1.5	25.63
Hanover, west of Union.....	100	10	.....	0.5	6.88
Lake avenue, east of Hall.....	150	8	.....	6	63.87
Lake avenue, Canton westerly.....	200	8	1	.....	22.95
Laurel, east of Hall.....	590	8	.....	1	54.43
Laurel, west of Hall.....	100	8	.....	0.5	6.12
Laurel, east of Milton.....	50	8	1	.....	5.79
Lincoln, south of Amherst.....	100	8	.....	1	11.47
Lowell, east of Ashland.....	175	8	.....	1	19.90
Milton, Merrim'k to Laurel, blasting.....	.....	.....	.....	.....	11.00
Milton, north of Laurel.....	100	8	4	.....	45.52
Nashua.....	150	8	.....	0.5	13.47
Orange.....	270	8	.....	0.5	9.62
Orange, near Hall.....	100	8	.....	1	17.22
Pearl.....	360	8	.....	1	30.50
Pearl, east of Ashland.....	150	8	3	.....	153.09
Pearl, west of Russell.....	50	8	.....	1	5.35
Pine.....	50	8	.....	1.5	10.30
Pine, north of Sagamore.....	100	8	.....	2	22.57
Prospect, east of Russell.....	150	8	.....	2	34.43
Prospect, east of Linden.....	75	8	.....	1.5	12.25
River road.....	500	8	.....	0.5	55.55
Russell, north of Bridge.....	220	8	.....	1.5	25.63
Russell, north of Pearl.....	100	8	.....	1	11.09
Russell, north of Pearl.....	150	8	2	.....	34.43
Russell and Prospect.....	200	8	.....	1	24.95
Sagamore, west of Pine.....	150	8	.....	1	16.83
Sagamore, east of Pine.....	100	8	.....	1	11.47
South Elm.....	160	10	2	.....	40.52
Spruce, west of Maple.....	200	8	.....	0.5	10.90
Union, south of Blodget.....	200	8	.....	1	22.57
Union and Sagamore, blasting.....	.....	.....	.....	.....	56.23
Walnut, south of Gore.....	200	8	.....	3	67.88
Walnut, south of Webster.....	50	8	.....	2	11.47
Welch avenue.....	40	8	.....	0.6	1.91
Wilson road, north of Lowell.....	300	8	.....	2	67.88
Totals.....	9,187	.....	.....	.....	\$1660.07

SANDING.

Paid Mary A. Hartshorn, for 658 loads sand	\$65.80
George F. Higgins, for 44 loads sand	4.40
Pettee & Adams, for salt	5.10
labor of men and teams	1,424.22
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Total	\$1,499.52

FENCE BUILT.

Brook, near Ash	225 feet.
Manchester, west of Beacon	225 "
Merrimack, east of Beacon	100 "
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Total	550 feet.

The above was built at a cost of \$46.23.

STONE.

Paid Frank S. Bodwell for stone	\$339.19
Charles A. Bailey, for stone	513.82
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Total	\$853.01

SEWERS AND DRAINS.

24 x 36 inches, brick	32 feet.
24-inch Portland pipe	538 "
20-inch Akron pipe, relaid	4 "
20-inch Portland pipe	483 "
20-inch Portland pipe, relaid	198 "
15-inch Akron pipe	64 "
15-inch Portland pipe	1,314 "
15-inch Portland pipe, relaid	16 "
14-inch iron pipe	12 "
12-inch Akron pipe	261 "
12-inch Portland pipe	949 "
10-inch Akron pipe	1,405 "

10-inch Akron pipe, relaid	2 feet.
10-inch Portland pipe	941 "
10-inch Portland pipe, relaid	55 "
8-inch Portland pipe	<u>255</u> "
Total	6,529 feet.

Manholes, 26 ; lampholes, 6 ; Y branches, 223.

The foregoing sewers were constructed at a cost of \$14,489.30.

CESSPOOLS AND CONNECTIONS.

15-inch pipe	40 feet.
12-inch pipe	6 "
12-inch pipe, repairing	134 "
10-inch pipe	436 "
10-inch pipe, repairing	178 "
8-inch pipe	614 "
8-inch pipe, repairing	<u>8</u> "
Total	1,416 feet.

SEWERS REPAIRED.

12-inch pipe	134 feet.
10-inch pipe	178 "
8-inch pipe	<u>8</u> "
Total	320 feet.

Total pipe laid 8,265 feet.

Equal to 1.565 miles.

NEW CESSPOOLS.

STREET.	No.	Cost of material.	Cost of labor.
Ash, between Harrison and Brook	1	\$14.29	\$7.80
Blodget south back, between Pine and Union	1	13.87	9.62
Chestnut and Clarke	2	38.20	24.76
Elm, corner of Hanover	1	12.40	19.00
Elm, coraer of Water	1	18.22	22.80
Elm west back, between Central and Depot	1	16.55	18.90
Franklin	3	51.99	21.75
Gore, between Walnut and Beech	1	14.08	10.50
Hall, corner of Lake avenue.....	3	65.90	35.62
Lake avenue and Hall.....	1	22.41	25.00
Lake ave. south back, betw'n Lincoln and Wilson	1	14.29	8.75
Laurel south back and Maple	1	12.70	11.20
Maple, corner of Laurel.....	1	10.15	5.50
Maple, between Merrimack and Central	5	83.50	60.24
Maple, corner of Concord.....	1	16.02	8.50
Massabesic, between Cypress and Jewett.....	1	15.64	21.40
Merrimack and Beacon.....	1	19.88	12.00
Pine, north of Sagamore.....	1	17.83	11.62
Sagamore, corner of Bay	2	38.96	27.45
South, between Lowell and East High	2	23.90	12.40
Spruce, corner of Lincoln	2	41.77	28.50
Union, corner of Hanover	2	30.66	14.75
Union east back, near Brook.....	1	18.04	9.74
Union east back, between Brook and Sagamore..	2	28.16	20.82
Walnut east back, between Harrison and Brook .	1	14.20	9.21
Webster, corner of River road	2	43.79	50.75
Webster, corner of Bay	1	18.66	13.87
Totals	42	\$716.15	\$522.45

CESSPOOLS REPAIRED.

STREET.	No.	Cost of material.	Cost of labor.
Amherst, corner of Union	1	\$1.98	\$1.33
Ash east back, between Brook and Harrison	1	1.21	1.46
Cass, corner of Lake avenue	1	3.45	3.00
Central south back, between Beech and Maple...	1	1.04	3.00
Cedar, corner of Pine	2	2.03	5.58
Cedar, between Union and Beech	2	2.04	5.59
Cedar south back and Elm east back	1	1.26	2.79
Chestnut, between Pearl and Orange	1	2.24	4.60
Dutton and Amherst	1	1.94	1.00
Elm, corner of Central	1	7.40	12.50
Elm, south of Myrtle	1	1.79	10.00
Elm, corner of Harrison	1	2.07	2.25
Elm east back, between Cedar and Spruce	1	2.24	4.60
Hanover, corner of Union	1	7.04	10.50
Lake avenue, near Hall	1	1.38	2.75
Laurel, corner of Hall	2	2.41	3.93
Lowell and Elm	1	9.44	10.50
Manchester south back betw'n Elm and Chestnut	2	3.96	2.68
Maple	2	2.07	3.75
Maple, corner of Central	1	1.21	1.46
North north back, near Chandler	1	1.94	1.00
Orange, corner of Elm	2	4.14	5.50
Pearl, corner of Chestnut	1	2.25	4.60
Pearl, corner of Russell	1	1.38	1.75
Pennacook, corner of Elm	1	1.98	1.33
Pine, south of Auburn	1	12.08	28.00
Pine, between Central and Laurel	1	1.38	1.83
Russell and Pearl	1	6.38	4.00
Spruce, corner of Maple	2	2.07	4.76
Spruce south back, near Elm east back	1	1.97	1.33
Union, including repairs on manhole	4	4.48	5.00
Union, corner of Cedar	1	2.24	4.60
Union, corner of Cedar	1	1.26	2.79
Union, near Brook	1	1.98	1.33
Washington, corner of Birch	1	2.07	4.00
Webster, corner of Chestnut	1	2.25	4.60
Miscellaneous, grates only	9	17.46	30.80
Totals	55	\$125.13	\$197.66

REPAIRING SEWERS.

STREET.	Cost of material.	Cost of labor.
Elm east back, between Prospect and Harrison	\$29.51	\$35.00
Myrtle south back, west of Chestnut .....	.78	8.00
Pearl, between Pine and Union	40.05	42.75
Totals	\$70.34	\$85.75

All of the cesspools in the city have been cleaned out three times during the summer, and the sewers flushed when necessary. The cost of the same, labor of men and teams, was \$1,850.62.

PIPE CULVERTS.

STREET.	Size in inches.	Length in feet.	Cost of material.	Cost of labor.
Elm, corner of Salmon.....	8	24	\$2.48	\$4.75
Hanover and Beacon.....	10	10	1.50	3.00
Maple and Gore.....	8	72	} 19.24	39.90
Maple and Gore.....	10	44		
Mitchell, near Calif road.....	24	102	82.88	2.76
One culvert.....	8	10	1.04	.....
Orange, east of Russell.....	10	11	1.64	3.00
Prospect, east of Linden.....	8	18	1.86	6.00
Webster, west of Elm, two.....	12	36	7.04	9.60
Totals.....	.....	327	\$117.68	\$69.01

Connections were made for the fountain, corner of Lake avenue and Hall street, using 52 feet of 8-inch pipe. Cost of material, \$5.64; cost of labor, \$20.50.

STONE CULVERTS.

STREET.	Size in inches.	Length in feet.	Cost.
Jane, north of East High.....	.....	35	\$87.50
Union, south of North.....	30 x 36	20	52.50
Walnut.....	36 x 48	70	143.12
Wilson road, north of East High.....	.....	120	35.00
Totals.....	.....	245	\$318.12

The following material has been delivered to plumbers and others according to the city ordinance :

FOR JANE-STREET SEWER.

Lewis and Pattee, 8-inch pipe, 154 feet	\$16.41
10-inch pipe, 4 feet	1.35
½ barrel cement . . . . .	.69
team	2.00
	<hr/>
	\$20.45
William F. Hubbard, 8-inch pipe, 128 feet	\$13.51
Ira F. Sturtevant, 10-inch pipe, 118 feet	17.97
Fairbanks and Hutchinson, Beacon street, 12-inch pipe, 335 feet and 3 8 on 12 Y branches.	

Y branches: 6 on 10, 22; 6 on 12, 22; 6 on 15, 1; 8 on 10, 22; 8 on 12, 47; 8 on 15, 12; 8 on 18, 1; 8 on 20, 4; 8 on 24, 1. Total, 132.

ON HAND AT CITY YARD.

24-inch pipe	18 feet.
18-inch pipe	28 "
15-inch pipe	186 "
12-inch pipe	33 "
10-inch pipe	166 "
8-inch pipe	112 "
	<hr/>
Total	543 feet.

- 3 Y branches, 8 on 24 inches.
- 3 Y branches, 8 on 20 inches.
- 2 Y branches, 8 on 18 inches.
- 22 Y branches, 8 on 15 inches.
- 18 Y branches, 8 on 12 inches.
- 28 Y branches, 8 on 10 inches.
- 39 Y branches, 8 on 8 inches.
- 4 Y branches, 6 on 8 inches.
- 17 1-8 bends, 15-inch.

- 10 1-8 bends, 12-inch.
- 6 1-8 bends, 10-inch.
- 2 1-8 bends, 8-inch.
- 6 15-inch quarter turns.
- 20 12-inch quarter turns.
- 2 10-inch quarter turns.
- 8 8-inch quarter turns.
- 5,300 brick.
- 11 barrels cement.
- 2 cesspool grates.
- 11 18-inch old style cesspool grates.
- 3 14-inch old style cesspool grates.
- 5 open manhole covers.
- 5 closed manhole covers.
- 3 12-inch lamphole covers.
- 2 10-inch lamphole covers.
- 3 Concord grates and traps.
- 5 upright cesspool grates.
- 7 cesspool stones.

District No. 3.

EBEN CARR, SURVEYOR.

Macadamized on Union street seventeen rods, using 200 loads of gravel. Charged to another appropriation.

Graveled Union street from Clarke street to Willey's ledge, 2,300 feet, using 200 loads of gravel.

Removed all the large boulders and smaller stones from Union street hill.

Laid over three stone culverts, 20 feet long by 18 inches square, and built one new culvert of 12-inch pipe, 15 feet long.

General repairs made where needed.

District No. 4.

BYRON E. MOORE, SURVEYOR.

Repaired and widened the road on Derry hill and also the road near Little Cohas brook bridge, using about 200 loads of clay and gravel. Laid a side open culvert, 20 rods long, on Derry hill.

Graded and graveled about 34 rods on Fox's hill, using 125 loads of clay and gravel; also graded and graveled near Great Cohas brook about 122 rods of road, using 25 loads of clay and gravel. Repaired about 50 rods of sidewalk.

Graded and graveled road from Devonshire Mills to depot, about one half mile, using 500 loads of clay and gravel.

Graded and repaired road at north end of district, about 270 rods, using 350 loads of clay and gravel.

Made general repairs on about one mile of the River road and on other roads in district as needed.

District No. 5.

MARK E. HARVEY, SURVEYOR.

Graveled	5,135 feet.
Turnpiked	1,300 "

Average width of graveled, 13 feet; average depth, 7 inches.

Graded by cut on Weston road	296 cu. yds.
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Graded by fill on Weston road	259 "
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Graded by fill on Nutt road	40.5 "
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Built 300 feet of railing on Goffe's Falls and Center road.

Cut bushes on three fourths of a mile of road.

Removed stones from roads once a month from May to October, and made all general repairs throughout the district.

Amount of appropriation, \$800. Balance, \$25.54.

District No. 6.

GREENLEAF C. COLEMAN, SURVEYOR.

Turnpiked	238 rods.
Graveled	221 "

Built one stone culvert on Cohas avenue, 25' \times 2' \times 2'.

Repaired two culverts.

Rebuilt the bridge over the dam, this being charged to another appropriation.

Removed stones from road and made all necessary repairs.

District No. 7.

CHARLES FRANCIS, SURVEYOR.

GUTTERS.

Belmont street	2,000 ft., 3 ft. wide.
Cypress street	300 " 3 " "
Spruce street	150 " 3 " "
Valley street	800 " 3 " "
Total	<u>3,250 ft.</u>

GRADING FOR CONCRETE.

Belmont street, by cut, 600 feet long, 8 feet wide.

Cypress street, by cut, 150 feet long, 8 feet wide.

Taylor street, by cut and fill, 600 feet long, 8 feet wide.

Valley street, by cut and fill, 950 feet long, 8 feet wide.

Total, 2,300 feet.

STONE WORK.

Massabesic street. Culvert 115 feet long, 4.5 feet wide, and 5 feet high.

Massabesic street. Culvert lengthened 25 feet, 4 feet wide, and 5 feet high.

Porter street. Culvert lengthened 12 feet, 4 feet wide, and 4 feet high.

Belmont street. Culvert 42 feet long, 1.5 feet wide, and 2 feet high.

Spruce street. Retaining wall 67 feet long, 6 feet high, and 2 feet thick.

GRADING AND GRAVELING.

Belmont street has been graded and graveled for 1,400 feet, and the extension south turnpiked for 82 rods.

Page street has been partially graded.

Summer street has been graded sufficiently to allow of water-pipes being laid.

One cesspool has been built on Cypress street and one on Spruce street.

Three concrete crossings have been laid at Cypress and Valley streets, containing 92.88 square yards, costing \$69.66.

General repairs were made where needed.

District No. 8.

GEORGE H. PENNIMAN, SURVEYOR.

BOROUGH ROAD.

Repaired road where needed from Hanover street road to Thomas Stearns's old place, and turnpiked 25 rods.

Rebuilt two stone culverts.

Lengthened culvert at Slager brook 10 feet and widened road to correspond.

Cut bushes, cleaned out gutters, and made general repairs.

BRIDGE STREET.

Removed large boulders by blasting.

Built one culvert, cleaned and repaired gutters, and made other general repairs where needed.

JAMES HALL ROAD.

Graveled the road between Lake avenue and Hanover street, using 50 loads of material.

MAMMOTH ROAD.

Graveled the road, using 25 loads of material.

PROCTOR ROAD.

Turnpiked 3 rods and filled mud holes.

Lengthened culvert and widened road to correspond around bend by Dr. Canney's land.

HANOVER STREET.

Graded 24 rods between Hall road and Lake avenue, and turnpiked 8 rods.

Lengthened culvert 8 feet and widened road by filling with stone, 6 rods in length, 6 feet wide.

HANOVER STREET ROAD.

Widened road east of brook by Samuel T. Page's cottage by building blind ditch 10 feet wide, 2 feet deep, and 15 rods long, covering this with gravel.

Made fill of 8 rods between Rand's and Smith's, and repaired one culvert.

Filled dangerous place at Bodwell's and built one cesspool opposite, at McGregor's.

Cleaned and relaid one stone culvert 75 feet long around Smith's corner, also repaired culvert at James H. Cram's.

Two hundred and fifty loads of gravel were taken from the cut on Proctor road and used in making general repairs from Smith's to Reed's.

Graded the sidewalk and made driveways at Benson's and Fox's.

Built stone culvert 50 feet long at Harvey's store and did what filling was necessary.

A large amount of work has been done on this road at Page's hill, by which the road has been built to its proper width and the grade of the hill reduced. A detailed statement follows :

Built 73.5 rods of face wall an average height of 5 feet.

Made fill next to Sargent's, at brook, 29 rods long, one rod wide, and 3 feet deep.

Made stone fill 10 rods long, 2 rods wide, and 1 foot deep, also dirt fill 10 rods long, 4 rods wide, and 1 foot deep.

Made stone fill at Chenette's and Stevens's 20 rods long, 2 rods wide, and 4 feet deep. Graded for sidewalk and paved gutter on same.

Graded the road from Morgan's to Rand's, a distance of one half mile.

Built culvert, 32' \times 2' \times 1'; culvert over brook, 20' \times 3' \times 4'; culvert for R. I. Stevens, 20' \times 2' \times 1'; culvert at A. G. Fairbanks's, 33' \times 2' \times 1'.

In removing the 1,500 perch of stone on the hill, 1,600 feet of one and one half inch holes were hand-drilled, and 800 charges of blasting material used.

District No. 9.

ALPHONSO N. BOYCE, SURVEYOR.

No report.

District No. 10.

CHARLES O. PHELPS, SUPERINTENDENT.

COBBLE PAVING.

	Feet.	Sq. yds.
Beauport, Adams to Sullivan	1,340	596
Beauport, Adams to Sullivan, relaid	700	311
Bridge, McGregor to bridge	725	242

	Feet.	Sq. yds.
Douglas, Barr to Green	532	177
Dubuque, Amory southerly	400	133
Ferry, Second westerly	100	33
Granite, Main easterly, relaid	100	22
Putnam street, relaid	150	67
Totals	4,047	1,581

COBBLE EDGING.

Beauport, Adams to Sullivan	1,340 feet.
Beauport, Adams to Sullivan, relaid	500 "
Douglas, Barr to Green	450 "
Dubuque, Amory southerly	350 "
Ferry, Second westerly	100 "
Main, Monmouth northerly	350 "
Second, Ferry northerly	50 "
Totals	3,140 feet.

EDGE STONES.

Bridge, McGregor to bridge	725 feet.
Douglas, West westerly	50 "
Granite, Main easterly, reset	125 "
Main, Conant northerly, reset	10 "
West	44 "
West, Douglas northerly	180 "
Totals	1,134 feet.

STREETS GRAVELED.

	Length.	Width.	Cu. yds.
A, Main westerly	210	8	31
Amherst road	200	16	59
Bowman, A northerly	180	6	19
Boynton, Main southerly	330	8	49
Forest	600	33	183

	Length.	Width.	Cu. yds.
Main, Milford to Boynton	720	6	80
Mast	2,100	20	778
Mast road, near Brock's	300	24	200
Milford, at cemetery	1,000	20	617
River, Walker northerly	700	15	259
Rockland avenue	240	25	111
Walker, River westerly	700	15	259
	<hr/>		<hr/>
Totals	6,680		2,449

STREETS GRADED.

	Length.	Width.	Cu. yds.
Amory, Rimmon westerly, cut	1,150	34	3,620
Amory extension, cut	768	50	4,267
Bartlett, Amory extension southerly, fill	1,150	34	3,620
Bennett boulevard, Amory westerly, cut,	1,600	10	1,778
Dubuque street, Amory southerly, cut . .	400	34	500
	<hr/>		<hr/>
Totals	5,068		13,785

WOODEN RAILING.

New Mast 895 feet.

On Beauport street, between Schuyler and Sullivan streets, a large amount of clay was taken out and a fill made with sand. Coal cinders have been used to a great extent in grading sidewalks.

SEWERS AND DRAINS.

24 x 36 inches, brick, relaid	111 feet.
24-inch Portland pipe, relaid	1,363 "
20-inch Portland pipe	1,284 "
15-inch Akron pipe	623 "
15-inch Portland pipe	501 "
12-inch Akron pipe	1,423 "
12-inch Portland pipe	1,085 "

12-inch iron pipe	12 feet.
10-inch Akron pipe	207 "
10-inch Portland pipe	<u>3,803 "</u>
Total	10,412 feet.

The foregoing sewers were constructed at a cost of \$19,592.75.

CESSPOOLS AND CONNECTIONS.

10-inch pipe	364 feet.
8-inch pipe	<u>899 "</u>
Total	1,263 feet.

Total pipe laid, 11,675 feet, equal to 2.21 miles.

Manholes built, 40 ; lampholes, 5 ; Y branches. 359.

NEW CESSPOOLS.

STREET.	No.	Cost of material.	Cost of labor.
A, Main to B.....	7	\$111.13	\$56.00
Bath, corner of Second	6	95.49	78.51
Beaumont, corner of Amory	1	15.66	13.65
Beaumont, corner of Amory	1	18.05	16.09
Bowman, A to Milford.....	4	56.71	32.00
Bridge, at west end of bridge	1	8.04	12.13
Bridge, at west end of bridge	1	18.94	20.31
C, Boynton to B	5	69.63	42.50
Cartier	1	14.11	12.57
Cartier, Wayne to Sullivan.....	4	63.03	64.00
Conant, corner of West	1	9.75	12.00
Douglas, corner of Green	2	27.03	16.25
Kelley, Coolidge avenue, westerly	2	37.61	11.38
Main, near Mast	1	16.77	30.50
Marion, corner of McGregor.....	1	10.95	18.75
Monmouth	1	15.56	19.01
North Main	1	15.01	13.65
River	1	14.26	14.25
South Main and Boynton	11	182.14	93.50
Sullivan, corner of Beaumont.....	3	44.27	48.00
Third, Ferry southerly.....	2	28.10	17.00
Third, corner of Bath	1	12.16	8.50
Wilton, corner of Beaumont	1	17.45	15.00
Totals	59	\$901.85	\$665.55

CESSPOOLS REPAIRED.

STREET.	No.	Cost of material.	Cost of labor.
Cartier, north of Wayne	1	\$1.10	\$18.00
James Baldwin Co.'s yard.....	1	1.15	2.56
Parker.....	1	6.77	6.00
Sullivan, corner of Beauport.....	1	.....	20.00
Third, corner of Walker.....	1	2.06	7.00
Totals	5	\$11.08	\$53.56

SEWERS REPAIRED.

STREET.	Cost of material.	Cost of labor.
Amory, east of Main	\$0.68	\$49.62
Douglas, east of Barr.....	.68	16.75
Totals	\$1.36	\$66.37

One manhole was repaired at a cost of \$6.

PIPE CULVERTS.

Bartlett street, 20-inch pipe	50 feet.
Milford street, 8-inch pipe	15 "
Total	65 feet.

ON HAND AT YARD.

24-inch pipe	66 feet.
20-inch pipe	2 "
15-inch pipe	22 "
12-inch pipe	121 "
10-inch pipe	24 "

8-inch pipe	22 feet.
6-inch pipe, old	20 "
	277
Total	277 feet.

1 Y branch, 8 on 24 inches.
 26 Y branches, 8 on 12 inches.
 2 Y branches, 6 on 12 inches.
 27 Y branches, 6 on 10 inches.
 8 Y branches, 8 on 10 inches.
 2 Y branches, 6 on 15 inches.
 1 T branch, 10 on 15 inches.
 1 T branch, 10 on 12 inches.
 2 15-inch $\frac{1}{8}$ bends.
 1 10-inch quarter turn.
 100 15-inch rings.
 40 12-inch rings.
 1 barrel cement.
 1 manhole casting.
 6 old cesspool grates.
 6 cesspool stones.

District No. 11.

FRANK D. HANSCOM, SURVEYOR.

Graveled 640 rods in length, 15 feet in width.
 Laid 151 yards of paving on Eddy hill and graveled the same.
 Turnpiked and graveled the hill at south end of district.
 Raised Black brook bridge fourteen inches, put in six new stringers, replanked it, and built new railing.
 Built 40 rods of railing on the Goffstown road.
 Cut bushes on sides of roads for 350 rods, fixed culverts, and made all necessary repairs.

District No. 12.

LEROY M. STREETER, SURVEYOR.

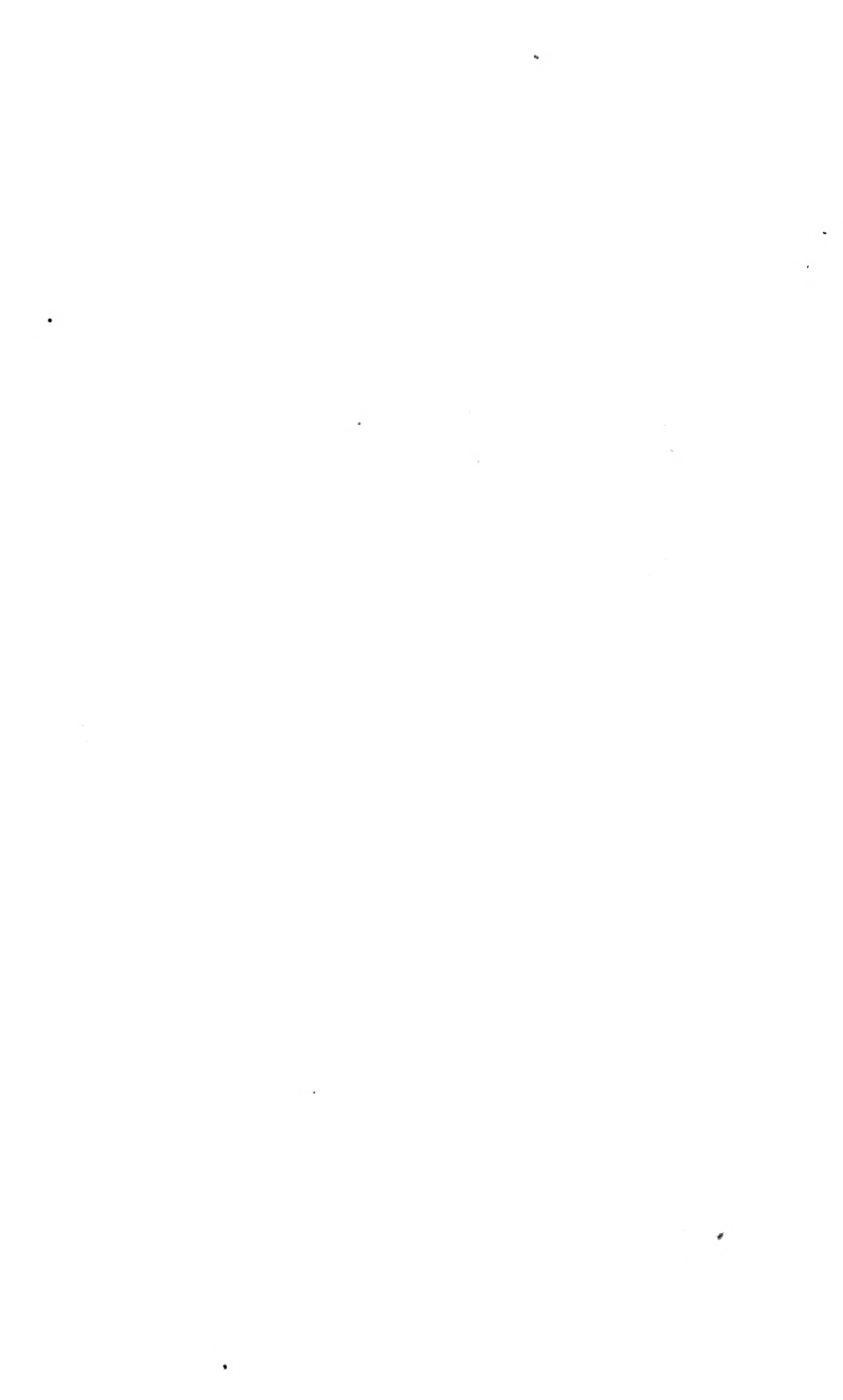
Bald hill road has been repaired from Bridge street to the top of the hill east of the woods. The road-machine was used nearly the entire distance. Many large stones were blasted and removed and a good passable road has been made.

The most extensive repairs were made on Bridge street by widening it nearly its entire length in the district. Bushes have been cut, stumps and stones removed, and other repairs made on the street.

Mammoth road, north of Hanover street, has been made wider and graveled on the sand hill, improving the road for heavy traffic.

All other necessary repairs have been made throughout the district.

REPORT
OF THE
TRUSTEES OF THE CITY LIBRARY.



REPORT
OF THE
TRUSTEES OF THE CITY LIBRARY.

To the City Councils of the City of Manchester :

The Trustees of the City Library herewith respectfully submit their thirty-ninth 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 sums 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 past year and its condition at the close of the year.

The treasurer's report shows that during the year the sum of four hundred and fifty-eight dollars and ninety-one cents has been expended for the purchase of books, and the sum of one hundred and seventy-three dollars and sixty-five cents for the purchase of periodicals, making a total expenditure for both these purposes of six hundred and thirty-two dollars and fifty-six cents. Of the amount expended for the purchase of books the sum of one hundred and forty-seven dollars and eighty-nine cents was used for the purchase of books to replace those worn out and withdrawn from circulation, and the sum of five dollars and fifty cents was taken from the income of the Dean fund and used for the purchase of books for that department of the library. Excluding these two amounts the sum expended for the purchase of new books was three hundred and five dollars and fifty-two cents, leaving a 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 of eleven hundred and sixty-eight dollars and forty cents.

The balance of the accumulated income of the Dean fund at the end of the year was five thousand eight hundred and three dollars and twenty-seven cents. Only the sum of five dollars and fifty cents was expended from this fund during the year.

The accumulated income of the Mary E. Elliot fund at the close of the year was seven hundred and fifty-four dollars and ninety-four cents.

A less number of new books than usual were purchased during the year, as the trustees did not deem it advisable to make large accessions of books during the compilation of the new catalogue, the completion of which has already been too long delayed.

The incidental expenses of the library for the past year have been three thousand eight hundred and sixty-four dollars and forty-nine cents, which amount includes the sum of one thousand four hundred and ninety dollars and fifteen cents, expended for the preparation of the 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 from the sum appropriated for the library upon their approval by the trustees.

In the early part of the year Mr. Wilberforce Ireland, administrator of the estate of Mrs. Eliza Eaton, the residue of whose estate after the payment of debts and legacies was bequeathed to the city for the benefit of the library, notified the trustees that he was ready to render an account of his administration in the probate court, and upon settlement of his account to pay over the amount for which he might be found chargeable. The death of Mr. Ireland shortly after the filing of his account in the probate court occasioned some delay in the final settlement of the estate, but in July last the administratrix of Mr. Ireland paid over to the treasurer of the board the sum of two thousand eight hundred and eighty-seven dollars and eighty cents, being the balance of the estate of Mrs. Eaton found by the probate court remaining in the

hands of her administrator on final settlement of his account. The sum of nine dollars and fifty-five cents has since been received for interest on funds deposited in savings banks, making the total amount of this fund in the hands of the treasurer at the end of the year, two thousand eight hundred and ninety-seven dollars and thirty-five cents.

The librarian reports that the library has been open for the delivery of books three hundred and four days, during which time the number of books delivered for home use was fifty-five thousand eight hundred and seventy-four, being an average of about one hundred and eighty-four per day. In addition to this number delivered for general circulation, seven thousand eight hundred and forty-six books were delivered for use in the reading-room at the library, an average of about twenty-six per day. The total number of books delivered during the year for both these purposes was sixty-three thousand seven hundred and twenty, an average of almost two hundred and ten per day. As compared with the year preceding, the circulation for home use and for use at the reading-room both show a slight decrease, but is above the average for the past few years.

Seventy-six different periodicals have been regularly received at the library, — fifty-five by purchase and twenty-one by donation — and at the completion of the several volumes they have been bound and placed upon the shelves for general circulation.

The number of volumes withdrawn from circulation during the year on account of their worn and defaced condition was one hundred and ten. Of this number, and of others retired from circulation in previous years for the same reason, one hundred and six volumes have been replaced at a cost of one hundred and forty-seven dollars and eighty-nine cents. Many of the books purchased during the early years of the library have become badly worn and defaced from long and constant use and must soon be replaced by new editions, the expense of which will be no inconsiderable item for several years. In this connection the trustees respectfully renew the recommendation made two years ago, that a special appropriation should be made by the city councils to cover the expense of purchasing books to

replace those worn out, so that the usual annual appropriation may be used, as no doubt intended in the original contract with the city, for the increase of the library by the purchase of new books and periodicals rather than for the replacing those books which have become worn out.

The number of volumes in the library at the date of the last report, including one thousand nine hundred and ninety pamphlets and sixteen maps, was thirty-four thousand nine hundred and twenty-nine. During the year there have been added by purchase one hundred and fifty-two volumes, by donation seven hundred and nineteen volumes, and one hundred and seven volumes of periodicals have been bound. In addition, twelve hundred and eighty-eight of the pamphlets in the library have been systematically arranged and bound into one hundred and sixty-one volumes, making the total number of bound volumes in the library at the close of the year, thirty-five thousand three hundred and fifty, and the total number, including sixteen maps and seven hundred and two pamphlets remaining unbound, thirty-six thousand and sixty-eight.

Following the report of the librarian will be found a list of the books presented to the library during the year, with the names of the persons presenting them. To all those who have thus contributed to the increase of the library, the trustees have caused due acknowledgment to be made.

At the date of the last report, the trustees were assured by Mr. Charles A. Durfee, the compiler of the new catalogue, that the work upon which he had been engaged during the two preceding years would be finished in a few months. Much to the disappointment of the trustees the compilation was not completed during the year just closed. In February last, however, Mr. Durfee notified the trustees that he had completed the compilation of the manuscript of the catalogue. Before accepting the manuscript it was thought advisable to have the work of Mr. Durfee examined by some person familiar with the preparation of catalogues for libraries who would report to the trustees whether the compilation was properly prepared. Should this report be favorable, the trustees expect that the public can have the benefit of the catalogue within a short time.

Mrs. E. A. H. Piper has continued to be employed at the library during the year, part of the time as an assistant to Mr. Durfee in his work, but devoting as much of her time as possible to copying for the card catalogue. In the early part of the year the catalogue of the works of fiction and juvenile books was completed and arranged for use, much to the satisfaction of the patrons of the library. The work of copying the rest of the catalogue is well advanced, and as fast as completed will be arranged for consultation of the public at the library.

The duties of librarian have been discharged by Mrs. M. J. Buncher with the same conscientious fidelity to the public as heretofore, and to the satisfaction of the trustees.

The trustees desire to renew their acknowledgments to the members of the city councils for the courtesy and consideration with which their suggestions relating to the library have been received and carried out.

MARCH 13, 1893.

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*.

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 :

	1892.	DR.	
Jan. 1.	To balance of appropriation .	\$709.23	
	Mrs. M. J. Buncher, bal-		
	ance of fines . . .	66.88	
	Mrs. M. J. Buncher, cata-		
	logues sold . . .	14.40	
	Mrs. M. J. Buncher, for		
	book lost . . .	1.95	
	Mrs. M. J. Buncher, gift	3.00	
	appropriation for 1892, for		
	books	1,000.00	
		\$1,795.46	4
Jan. 1.	To balance of income of Dean		
	fund	\$5,313.63	
	income of Dean fund .	153.00	
April 1.	income of Dean fund .	16.88	
July 1.	income of Dean fund .	108.00	
	interest on accumulation		
	of income	217.26	
		\$5,808.77	7
Jan. 1.	To Mary E. Elliot fund . . .	\$2,000.00	
	balance of interest on Mary		
	E. Elliot fund . . .	636.32	

REPORT OF THE TRUSTEES OF THE CITY LIBRARY. 203

April 1.	To interest on Mary E. Elliot fund	\$90.00	
	interest on accumulation of income	28.62	
		<u> </u>	\$2,754.94
July 7.	To Eliza A. Eaton fund	\$2,887.80	
Aug. 1.	interest on Eliza A. Eaton fund	9.55	
		<u> </u>	\$2,897.35
			<u> </u>
			\$13,256.52

1892.			CR.
Jan. 6.	Paid New England News Co., periodicals	\$10.21	
8.	Boston Book Co., periodicals	5.00	
19.	Little, Brown & Co., books	3.50	
22.	Little, Brown & Co., books	20.00	
25.	The History Co., books	18.00	
25.	The History Co., books	4.50	
Feb. 2.	George H. Polley & Co., periodicals	6.00	
3.	New England News Co., periodicals	16.16	
4.	J. H. Hickcox, periodicals	5.00	
4.	Sampson, Murdock & Co., books	2.00	
4.	Frank B. Webster Co., periodicals	1.00	
4.	Boston Public Library, periodicals	1.00	
4.	American Microscopical Journal, periodicals	2.00	
10.	John N. McClintock, books	2.00	
11.	Little, Brown & Co., books	2.00	
15.	W. B. Clarke & Co., books	82.16	
15.	W. B. Clarke & Co., books	10.85	
18.	D. Appleton & Co., books	9.00	
24.	Central Law Journal Co., periodicals	5.00	
March 1.	The History Co., books	4.50	
2.	New England News Co., periodicals	11.43	
22.	W. B. Clarke & Co., books	32.77	
23.	Geo. A. Blanchard, books	4.50	

April	4.	Paid Y. W. C. A., books	\$20.00
	5.	New England News Co., periodicals	12.82
	8.	Little, Brown & Co., books	3.75
	8.	W. B. Clarke & Co., books	25.23
	18.	W. B. Clarke & Co., books	15.55
	19.	W. B. Clarke & Co., books	31.51
	19.	W. B. Clarke & Co., books	54.25
	26.	The History Co., books	4.50
May	2.	Moses G. Shirley, books	1.00
	4.	New England News Co., periodicals	16.04
	7.	Lawyers' Co-operative Publishing Co., books	5.00
	21.	D. Appleton & Co., books	5.00
	21.	W. B. Clarke & Co., books	48.34
June	2.	New England News Co., periodicals	11.36
	29.	Little, Brown & Co., books	2.00
July	6.	New England News Co., periodicals	11.94
	27.	The History Co., books	4.50
Aug.	5.	New England News Co., periodicals	11.51
Sept.	3.	New England News Co., periodicals	13.66
	15.	Chas. Scribner's Sons, (Dean fund) books	5.50
	19.	Little, Brown & Co., books	3.50
Oct.	5.	New England News Co., periodicals	10.86
	13.	D. H. Hurd & Co., books	15.00
Nov.	3.	New England News Co., periodicals	11.89
	19.	Geo. E. Littlefield, books	11.25
	22.	Geo. E. Littlefield, books	1.00
Dec.	6.	New England News Co., periodicals	10.77
	19.	Little, Brown & Co., books	4.25
	20.	books	2.00
	31.	balance of appropriation	1,168.40
	31.	balance of Dean fund	5,803.27
	31.	Mary E. Elliot fund and interest . .	2,754.94
	31.	Eliza A. Eaton fund and interest . .	2,897.35
			\$13,256.52

REPORT OF THE TRUSTEES OF THE CITY LIBRARY. 205

The expenditures for the incidental expenses of the library, including the amounts paid on account for the preparation of the new catalogue, for the year ending December 31, 1892, the bills for which were paid by the city treasurer, upon the approval of the committee on accounts of the board of trustees, and the items of which may be found in the annual report of the city, have been as follows :

Services of librarian	\$800.00
Services of assistant librarian	382.50
Gas	227.50
Binding	318.93
Rebinding	175.28
Fuel	248.58
Insurance	125.00
Supplies	26.90
Incidentals	36.65
Water	16.00
Newspapers	6.00
Printing trustees' report	11.00
Catalogue	<u>1,490.15</u>
Total	\$3,864.49

RECAPITULATION.

Balance of appropriation Dec. 31, 1892	\$3,097.62	
Balance of appropriation for catalogue, Dec. 31, 1892	2,260.32	
Appropriation for 1892	<u>3,800.00</u>	\$9,157.94
Paid trustees for purchase of books	\$1,000.00	
Paid incidental expenses and catalogue	3,864.49	
Balance of appropriation Dec. 31, 1892	3,523.28	
Balance of appropriation for catalogue, Dec. 31, 1892	<u>770.17</u>	\$9,157.94

Respectfully submitted.

NATHAN P. HUNT,

Treasurer of the Trustees of the City Library.

DECEMBER 31, 1892.

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

E. J. KNOWLTON,
L. B. CLOUGH,

Committee on Accounts of City Library.

DECEMBER 31, 1892.

I certify that I have examined the several items of receipts and expenditures embraced in the foregoing report of the treasurer 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 my fifteenth yearly report, being the thirty-ninth annual report of the city library :

Whole number of accessions December 31, 1891 34,929

Added during the year :

By purchase	152	
Donated	719	
Periodicals and papers bound	107	
Volumes of pamphlets bound	161	
	1,139	1,139

Whole number at present :

Maps	16	
Pamphlets	702	
Bound volumes	35,350	
	36,068	36,068

Number of periodicals and papers regularly received

by purchase	55
Number by gift	21
Number of days open to the public for reading and distribution of books	304
Number of volumes delivered for home use	55,874
Average per day	184
Largest number any one day,— March 19	438
Largest number any one month,— March	5,636
Smallest number any one month,— July	4,140
Number delivered in the reading-room	7,846
Average per day	26

Number of guarantees received for new cards	398
Whole number received since the new registration	8,595
Number of cards used on deposit	7
Number returned to the library	54
Postals sent to delinquents	350
Number of volumes removed from circulation, worn out	110
Volumes replaced during the year	106
Number lost or injured and paid for	4
Number of volumes missing at close of the year	5
Number repaired and rebound at the bindery	741
Number repaired and recovered at the library	6,496
Balance of cash on hand December 31, 1891	\$86.23
Amount received from Jan. 1, to Dec. 31, 1892 :	
For fines	\$126.57
For finding lists, 56 at 10c.	5.60
Books lost or injured, and paid for	3.42
	<hr/>
	\$135.59
	<hr/>
	\$221.82
Paid N. P. Hunt, treasurer	86.23
	<hr/>
	\$135.59
Paid for expressage and incidental expenses	52.61
	<hr/>
Total cash on hand	\$82.98

The work of the year just closed has been one of the most laborious of the present administration. The re-classification and re-arranging of so large a number of books has brought a greater increase of labor than could be anticipated. A detailed account cannot be given, but we trust the improved condition of the library will fully repay for the time and work given. The general work of the library varies but little, if any, from the preceding years.

The addition to the library by gift has been unusually large, including a valuable collection of medical works from our local physicians ; a large number of municipal, educational, and vari-

ous other reports to fill the incomplete sets before the closing of the new catalogue. The departments at Washington have favored us, as usual, in supplying our deficiencies. We returned to them fifty-eight volumes of duplicates for the use of other libraries.

The circulation shows some decrease from last year. It is by no means as large as it ought to be, and it is to be hoped that when the knowledge of the real contents of the library is given to the public in the new catalogues, that the circulation will show by its increase the appreciation it deserves.

The number of new cards issued is smaller than in any year since the new registration, a fact of which no satisfactory explanation can be given. About the same number are in constant use, and less have been returned.

The service of the library to the public schools seems greatly increased, particularly on the part of the teachers. There has been a greater demand for books, and they have received every privilege possible in connection with their school work. It would be well if we had the same plan adopted by some other libraries, of providing a larger number of copies for the use of pupils, giving them an opportunity of using the same book under the guidance of their teachers. It is always a source of disappointment when they are sent to the library for certain books, and find the only copy already taken by the teacher.

The statistics of the reading-room is not a fair estimate of the year's attendance. Having such limited arrangements for consulting reference books, the interior of the circulating department has accommodated a larger number of visitors than ever before, not only for educational research connected with schools, but of those connected with the various literary clubs of our city, and in the formation of a new historical social club, viz., "The Daughters of the Revolution," the draft upon the historical and genealogical department has been very great. If to this large number of visitors were added those consulting the "Patent Office Gazette" and law reports, the figures would be greatly increased. The suggestion of the mayor in his last inaugural was a timely one. We *do* need a large and pleasant read-

ing-room, and other accommodations for our patrons, whether they come for recreation or useful information. There is a constant desire expressed by the public for that improvement in our library.

At the close of our last examination quite a number of books were missing. This was not unexpected after the changes made in the location of so many books; but they have gradually re-appeared, and at the present time only five are unaccounted for, none of special value.

There has been over one hundred volumes replaced, but many more are waiting to be removed for better copies. The wear and tear increases yearly, and the repairing and re-covering requires no inconsiderable part of the time on general work.

In closing the record of the last year we desire to express a hope and belief that the one we have entered upon will, with its improved facilities for obtaining the knowledge of the contents of our library, bring a wider usefulness to our city.

Respectfully,

Mrs. M. J. BUNCHER,

Librarian.

DONATIONS TO THE CITY LIBRARY.

1892.

SECRETARY OF STATE OF NEW HAMPSHIRE.

Public Statutes of New Hampshire. 1891. 8vo.

Journal of the New Hampshire Senate and House. 1891.
8vo.

New Hampshire Laws. 1891. 8vo.

History of the Sixth New Hampshire Volunteers in the War
for the Union. By Capt. Lyman Jackson. 8vo.

History of the Eleventh New Hampshire Regiment. By
L. W. Cogswell. 1889. 8vo.

History of the Thirteenth New Hampshire Regiment of Vol-
unteers. By S. M. Thompson. 1888. 8vo. 6 vols.

HON. E. S. STEARNS, Secretary of State.

Laws of New Hampshire for 1874. 8vo.

Journals of the Senate and House for 1842. 8vo.

REV. C. L. TAPPAN, Librarian Historical Society of New Hamp- shire.

Public Laws of New Hampshire for the years 1811, '20, '23,
'58, '64, '68, and '76. 7 vols.

ARTHUR R. KIMBALL, State Librarian.

Reports of the State Library for 1891, 1892. 2 vols.

HON. J. W. PATTERSON, Superintendent Public Instruction of New Hampshire.

Five volumes of reports, from 1886 to 1891. 8vo.

HON. J. C. LINEHAN, N. H. Insurance Commissioner.

Annual reports of the New Hampshire Insurance Commission for 1890, 1891. 2 vols. 8vo.

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

Tenth Annual Report of the State Board of Health of New Hampshire. 1891. 8vo.

HEIRS OF JOHN B. CLARKE, Manchester.

Official Records of the Union and Confederate Armies. 51 vols.

Fifty-two volumes on Agriculture and other miscellaneous subjects.

DR. WM. W. WILKINS'S ESTATE, Manchester.

Ninety bound volumes of Medical Works, including "Zimmsen's Encyclopedia of the Practice of Medicine," 17 vols; "The Medical Times and Gazette," 10 vols. (London edition), and a large number unbound.

DR. HENRY DE CARVELLE, Manchester.

Thirty-two bound volumes of Medical Works, including 13 volumes of the "Boston Medical and Surgical Journal." Twelve volumes of the "Medical Record" and many unbound numbers and medical pamphlets.

DR. ALBERT PICK, Manchester.

Eighty-six bound volumes of Medical Works, including 20 volumes of the medical publications of the Sydenham Society, London, and various other publications in the English and French languages.

REV. G. L. DEMAREST, Manchester.

The Forum. For the year 1892. 2 vols.

Popular Science Monthly. 1892. 2 vols.

North American Review. 1892. 2 vols.

Review of Reviews. 1891. 1 vol. 7 vols.

MRS. B. P. CILLEY, Manchester.

Six volumes of the United States Statistics.

Two volumes of the Scientific American. 1851, 1852.

Miscellaneous books and pamphlets.

GEORGE C. GILMORE, ESQ., Manchester.

The Library Journal. 1891. 1 vol.

The Literary News. 1891. 1 vol.

The Sons of the American Revolution. 1 pamphlet.

S. C. GOULD, Manchester.

Notes and Queries for the year 1892. 8vo. 1 vol.

Report of the Odd Fellows' Mutual Relief Association. 1892.

Dedication of Masonic Hall, Manchester, October, 1890.

Societas Rosicruciana Catechesis Archani. A paper read
before the Massachusetts College, Boston, January, 1892.
3 pamphlets.

W. C. T. U., Manchester.

The Temperance Journal for the year 1892.

A complete set of the reports of the Woman's Christian
Temperance Union of New Hampshire to 1892.

CHARLES F. LIVINGSTON, Manchester.

The Printer's Text-Book. By J. Wesley Barker. 4to.

The United States Type Foundry. 4to.

JUDGE DAVID CROSS, Manchester.

History of American Currency. By Wm. G. Summers.
12mo.

Southern New Hampshire Press Association. 1892. Pam-
phlet.

REV. THOMAS A. DORION, Manchester.

Bibliothèque du Fidele Messager. Vol. 1. 1892. 12mo.

JAMES A. FRACKER, ESQ., Manchester.

History of Ridgely Lodge No. 74, I. O. O. F., and original
poem by James A. Fracker. 8vo. 1 vol.

N. P. KIDDER, City Clerk.

Laws of the State of New Hampshire, passed June, 1872,
1873, 1875. 3 pamphlets.

H. W. EASTMAN, Secretary.

The Board of Trade Journal. 1891, 1892. 4to.

THOMAS W. LANE, Chief Engineer.

Annual Report of the Fire Department of Manchester for the year 1891. Pamphlet.

C. H. KIMBALL, ESQ., Manchester.

Three cases of miscellaneous periodicals and newspapers, unbound.

GEORGE P. CLEWS, ESQ., Concord, N. H.

Journal of Proceedings of the M. W. Grand Lodge of Masons, State of New Hampshire, for the years 1873, '75, '78, '82, '83, '89. 6 pamphlets.

Proceedings of the Grand Commandery of Knights Templar of New Hampshire for 1877, 1891. 2 vols. 8vo.

MASSACHUSETTS GENERAL HOSPITAL.

Reports from 1876 to 1891, inclusive. 16 pamphlets.

MORRIS R. HAMILTON, ESQ., State Librarian.

New Jersey Archives. Volumes 15 and 16. 2 vols. 8vo.

CHARLES L. BRACE, Secretary.

Annual reports of the Children's Aid Society of New York from 1882 to 1891, inclusive. 9 pamphlets.

GORDON, H. L., Chicago.

"The Feast of the Virgin and Other Poems." 1891. 12mo.

JOSEPH W. ERRANT, Secretary.

"The Echoes of the Sunset Club." 1891. Chicago. 12mo.

JOHN R. HAM, M. D.

Bibliography of Dover, N. H. 1892.

Dover, N. H., in the United States Navy during the Civil War. 1892. 2 pamphlets.

HENRY E. WAITE, ESQ.

The Origin of the American Navy. 1890. 4to.

Y. M. C. ASSOCIATION, England.

Success in Life. A Present to Youths and Young Men. 2 vols. 1891. 12mo.

C. J. H. WOODBURY, Lynn, Mass.

Addresses at the presentation to the city of Lynn of the first casting made in America by the Saugus Iron Works in 1642. Pamphlet.

CHRISTIAN SCIENCE DISPENSARY, Manchester.

Christian Science Journal for the year 1892. 8vo.

WILLIAM I. KIMBALL, City Clerk, Lawrence.

Municipal Reports for the years 1887 to 1891, inclusive. 5 vols.

REV. H. L. WHEELER, Burlington, Vt.

Christianity and Life, an address before the American Canoe Association. Pamphlet.

FRED A. CHASE, Librarian, Lowell.

Origin and Genealogy of the Hildreth family of Lowell, Mass. Pamphlet.

DR. L. BREMER, St. Louis.

Tobacco, Insanity, and Nervousness. By Dr. L. Bremer, 1892. Pamphlet.

DENIS A. HOLLAND, President.

First and third annual reports of the Society of St. Vincent de Paul. 2 pamphlets.

JOSEPH E. BENNETT, ESQ.

First Annual Report of Elliot Hospital for the year 1891. Pamphlet.

E. M. BOWMAN, City Clerk, Nashua.

Municipal Report of the City of Nashua for 1891. 12mo.

JAMES B. STRAW, Auditor.

Forty-sixth Annual Report of the City of Manchester. 1891. 12mo.

FROM THE MAYOR'S OFFICE.

126 volumes of Municipal Reports of various cities and towns in the United States.

UNKNOWN.

- Nicaragua Canal, The Gateway of the Pacific. 4to.
 James R. Carnahan's reply to Dr. John A. Wyeth, on The
 Treatment of Prisoners at Camp Morton, Indianapolis.
 Protection and Free Trade. By Henry George.
 Official Report of the New Hampshire Music Teachers'
 Association. 1891. 4 pamphlets.

UNIVERSITIES AND COLLEGES.

- Cornell University: Register for 1891-92. Pamphlet.
 Amherst College: Catalogue for 1891-92. Pamphlet.
 Harvard University: Reports of President and Treasurer
 for the year 1891-92. Pamphlet.
 University of California: Register for 1891-92. Pam-
 phlet.
 University of Chicago: Quarterly Calendar, No. 3; Offi-
 cial Bulletin, No. 6. 2 pamphlets.
 University of Denver and Colorado Seminary: Catalogue
 for 1892-93. Pamphlet.
 University of Pennsylvania: Proceedings of the Opening
 of the Library, February 7, 1891, and Catalogue An-
 nouncement, 1891-92. 2 pamphlets.
 Pratt Institute, Brooklyn, N. Y.: Catalogue, 1892-93.

REPORTS FROM LIBRARIANS AND BOARDS OF TRUSTEES.

- Baltimore, Maryland. Annual Report of the Peabody In-
 stitute, June 1, 1892. Pamphlet.
 Birmingham, England. Thirtieth Annual Report of the
 Free Public Libraries.. 1891. Pamphlet.
 Brooklyn, N. Y. Thirty-fourth Annual Report of the
 Brooklyn Library. March, 1892. Pamphlet.
 Brookline, Mass. Thirty-fifth Annual Report of the Free
 Public Library. 1891. Pamphlet.
 Bridgeport, Conn. Annual Report of Public Library.
 August, 1892. Pamphlet.
 Burlington, Vt. Annual Report of the Fletcher Free Li-
 brary, for the year 1891. Pamphlet.

- Cleveland, Ohio. Twenty-third Annual Report of the Public Library. August 31, 1891. Pamphlet.
- Cincinnati, Ohio. Annual Report of the Public Library. June 30, 1891-92. Two pamphlets.
- Chicago, Ill. Report of the Newbury Library for 1891. Chicago Public Library. June, 1892. Two pamphlets.
- Columbus, Ohio. Public Library and Reading-room for the year 1891-92. Pamphlet.
- Concord, N. H. Report of Public Library for 1891. Pamphlet.
- Chelsea, Mass. Annual Report, for the year 1891, of the Fitz Public Library. Pamphlet.
- Clinton, Mass. Report of the Bigelow Free Library for 1891.
- Detroit, Mich. Report of the Library Commission for the years 1891, 1892. Two pamphlets.
- Dover, N. H. Ninth Annual Report of Public Library, 1891. Pamphlet.
- Fall River, Mass. Annual Report of Public Library for the year 1891. Pamphlet.
- Germantown, Phil. Report of the Friends' Free Library and Reading-room for 1891. Pamphlet.
- Grand Rapids, Mich. Report of Free Public Library for the year 1892. Pamphlet.
- Jersey City, N. J. First Annual Report of the Free Public Library. Pamphlet. Monthly Record for the year 1892.
- Los Angeles, Cal. Annual Report for the year, 1891. Pamphlet.
- Lawrence, Mass. Bulletin No 8 of Free Public Library.
- Lynn, Mass. Twenty-ninth Annual Report of the Public Library. 1891. Pamphlet.
- Lowell, Mass. Report of the City Library for 1890 and 1892. Two pamphlets.
- Melrose, Mass. Twenty-first Annual Report of Public Library. Two pamphlets.
- Malden, Mass. Fourteenth Annual Report of Public Library. Two pamphlets.

- Minneapolis, Minn. Second Annual Report of Free Library. Two pamphlets.
- Manchester, Eng. Report of Committees of Public Free Libraries for the year 1891-92. Pamphlets. Address on The Moral Influence of Free Libraries. By Alexander Ireland, at the opening of the Longstreet Branch Library. July, 1892. Pamphlet.
- Milwaukee, Wis. Fourteenth Annual Reports of the Public Library. October, 1892. Pamphlet.
- New York. Annual Report of the Mercantile Library Association for 1891-92. Pamphlet. Maimonides Library. Report for the year 1891. Pamphlet.
- Newark, N. J. Third Annual Report of Free Library. Pamphlet.
- Newton, Mass. Annual Report of Public Library. 1891. Pamphlet.
- Natick, Mass. Report of Morse Institute for 1891. Pamphlet.
- Omaha, Neb. Public Library Report for year ending May, 1892. Pamphlet.
- Providence, R. I. Fourteenth Annual Report of the Free Public Library. 1891. Pamphlet.
- Philadelphia Library Company. Bulletin No. 29. September, 1892.
- Philadelphia Apprentice's Library Company, Annual Report for 1892. Finding List. 1892. Two pamphlets.
- San Francisco Free Library Report. June, 1891. Pamphlet.
- San Francisco Mercantile Library Association. Report for 1891. Pamphlet.
- Scranton, Penn. Annual Report of Scranton Public Library for the year 1891. Pamphlet.
- Salem, Mass. Report of Free Public Library. 1891. Pamphlet.
- St. Louis, Mo. Mercantile Library Association. Reports and Catalogues, 13 pamphlets. Report of the Free Public Library for the year 1890-91. Pamphlet.

Springfield, Mass. Report of the Library Association for the year ending May, 1892. Pamphlets. Bulletins Nos. 1-12. Vol. 5. 1892. 4to.

Worcester, Mass. Thirty-sixth Annual Report of the Public Library. November, 1892.

Warner, N. H. Dedication of the Pillsbury Free Library Building. 1892. Pamphlet.

FROM THE SEVERAL PUBLISHERS.

"Colorado Sun." Published in Denver. For the year 1892. Folio.

"High School Echo." Published by the senior class of the Manchester High School. Vol. 3. 1892. 4to.

"Lawrence Anzeiger." (German.) Published at Lawrence, Mass. For the year 1892. Folio.

"Le National." Published in Manchester, N. H. Benjamin Lenthier, proprietor. (French daily.)

"Manifesto." From Shaker Village, Canterbury, N. H. For 1892. 8vo.

"New Hampshire Catholic." Charles A. O'Connor, Esq., publisher, Manchester, N. H. Folio.

"Plymouth Record." Record Publishing Company, Plymouth, N. H. 1892. Folio.

"Students' Phonographic Journal." Andrew J. Graham, publisher, New York. For 1892. 4to.

"Saturday Telegram." William M. Kendall, publisher, Manchester, N. H. For 1892. Folio.

"The Voice." A Temperance Journal. Funk & Wagnalls, publishers, New York. For 1892. Folio.

"Travelers' Record." Travelers' Insurance Company, Hartford, Conn. 1892. 4to.

"Weirs Times." M. W. Calvert, publisher, Weirs, N. H. For the tourist season of 1892. Folio.

"The Worcester Council" (The Board of Trade). Published by F. S. Blanchard & Co., Worcester, Mass. For 1892. 4to.

UNITED STATES GOVERNMENT.

STATE DEPARTMENT.

- Report of the cholera in Europe and India. By Edward O. Shakespeare of Philadelphia, commissioner. 1890. 4to.
- Commercial relations of the United States for the years 1888, 1889, 1890, 1891. 8vo.
- Consular reports, 13 numbers, completing Vols. 36, 37, 38, and 39.
- Special Consular Reports. 1 to 4. 1892.
- Report of the Interstate Commerce Commission for 1891. 8vo.
- Report on the Statistics of Railways in the United States. Vol. 3. June 30, 1890. 8vo.

TREASURY DEPARTMENT.

- Report of the Comptroller of the Currency. 1891, 1892. Two volumes. 8vo.
- Report of the Secretary of the Treasury for 1890. 8vo.
- Report of the Superintendent of the Coast Survey for 1890. 4to. Bulletin No. 25. October 14, 1892.
- Modern Lighthouse Service. By Arnold B. Johnson, chief clerk United States Lighthouse Board. 1889. 8vo.
- First report of the United States Board of Geographic Names. 1890, 1891. 8vo.

WAR DEPARTMENT.

- Official Records of the Union and Confederate Armies. From Vol. 38 to 40, with parts. 9 vols.
- Alphabetical List of additions to the War Department Library, from May, 1884, to 1891. 8vo.
- Atlases accompanying the Official Records of the War, parts 4 to 10.

INTERIOR DEPARTMENT.

- Report of the Secretary of the Interior, and fourteen miscellaneous pamphlets, viz.: Reports of Governors of Arizona, Utah, New Mexico, Alaska, and Oklahoma. Reports

- of the Government Hospital for the Insane, Freedmen's Hospital, Howard University, Sequoia and General Grant National Parks, Commission of Pensions, etc., etc.
- List of Congressional Documents from the Fifteenth to the Fifty-first Congress inclusive. By J. G. Ames. 8vo.
- Congressional Directory. June, 1892. Pamphlet.
- Receipts and Distribution of Documents. 1890 and 1891. Pamphlet.
- Fifty-eight volumes of Public Documents, and fifteen pamphlets to fill vacancies.

BUREAU OF EDUCATION.

- Report of the Commissioner of Education. 1888 and 1889. Two vols. 8vo.
- Circulars of Information, Nos. 1 to 9, 1891. No. 1, 1892. Ten pamphlets.
- Education of Deaf Children. Evidences of Edward M. Gallaudet and Alex G. Ball. 1892.

NAVY DEPARTMENT.

- United States Coast Pilot, Atlantic Coast, Parts 1 and 2. From the St. Croix River to Cape Ann. By Richardson Glover, hydrographer, United States Coast Survey. 1891. 4 to.

AGRICULTURAL DEPARTMENT.

- Weather Bureau. Report on the Climate of California and Nevada, with reference to Irrigation and Water-Storage in the Arid Regions. 1891. 4to.
- Bulletins Nos. 1 to 5 inclusive, relating to the Physical Properties of Soils, etc., New Methods of Magnetic Observations, Fluctuations of Ground Waters, etc.

SMITHSONIAN INSTITUTION.

- Contributions to Knowledge. Vol. 28. 4to.
- Annual Report of the Institution for the year 1889, including the report of the National Museum. Bulletins Nos. 41 and 42.
- The Museums of the Future. By G. B. Goode. Pamphlet. M. M. McDonald, commissioner.

Bulletin of the United States Fish Commission for the year
1889. Svo.

UNITED STATES CONGRESS.

Seventy-four volumes of Public Documents of the Fiftieth,
Fifty-first, and Fifty-second Congresses.

The Congressional Record of the First and Second Sessions
of the Fifty-second Congress.

REPORT
OF THE
TRUSTEES OF THE CEMETERY FUNDS.

REPORT
OF THE
TRUSTEES OF THE CEMETERY FUNDS.

To the City Councils of the City of Manchester :

GENTLEMEN,— The Trustees of the Cemetery Funds have the honor to present herewith their thirteenth annual report, embracing the report of their treasurer, which exhibits the financial operations for the year ending December 31, 1892, and the condition of the fund at the present time.

All endowed lots have received the usual care and attention since our last annual report. Special and somewhat extensive improvements have been made at the tomb erected by the late Col. George W. Bailey, by the erection of a substantial bank wall in place of a more temporary structure, to hold the earth in place. It was a work that had long been needed, but was delayed to allow the fund to accumulate to an extent that would warrant the outlay.

The trustees have referred more than once in former reports to the inadequate sums that have, in some cases, been left for the care of lots ; and they have in several instances been compelled to decline to receive the sums so left, in justice to those who had provided more liberal amounts. Under these circumstances it seemed desirable that a minimum sum should be fixed for the care of isolated lots ; and after mature consideration the trustees have decided in no case to accept less than seventy-five cents per square foot. Where expensive structures are upon lots, especially if the material used is marble, a larger sum should be deposited,

in order that the income may be sufficient to meet the demands that are sure to come, in time, to all work constructed of this material.

Respectfully submitted.

E. J. KNOWLTON, *Mayor,*

P. C. CHENEY,

JAMES A. WESTON,

Trustees of Cemetery Funds.

JANUARY 2, 1893.

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, 1892 :

Pine Grove Cemetery.

Number of deeds delivered during the year, seventy-seven.

To cash received for the same	\$2,691.16	
interest	5.74	
cash received from superintendent	2,011.68	
	<hr/>	\$4,708.58

CR.

By treasurer's receipt	\$2,696.90	
superintendent's receipts	2,011.68	
	<hr/>	\$4,708.58

Valley Cemetery.

To cash received from superintendent	\$1,800.00
By treasurer's receipts	1,800.00

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

I have thirty deeds ready for delivery, which, with a few exceptions, will be taken in a few weeks. There are one or two which I doubt if ever the contract will be completed. Such cases should receive your earliest attention.

Most respectfully submitted.

SYLVANUS B. PUTNAM,

Treasurer.

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

JAMES B. STRAW,

JANUARY 2, 1893.

City Auditor.

REPORT
OF THE
TRUSTEES OF CEMETERIES.

Pine Grove Cemetery.

The sub-trustees of the Pine Grove Cemetery have the honor to submit the following report :

The past year has witnessed very satisfactory and marked improvement in the development of this cemetery.

More than a thousand yards of concrete have been laid and the iron fence has been removed from the north end of the lot and placed upon the east side against the highway. This should be extended to the south end of the cemetery at no distant day.

Many monuments have been erected and quite a number of beautiful and elegant design. Very few spots can be found in any cemetery anywhere, excelling or equaling in beauty and attractiveness Hillside lawn in this cemetery. Its lots are now all sold and nearly all to some extent occupied.

Surveying the cemetery from the elevation at this point one can but feel that it would have been wise, in the first instance, to have placed the whole cemetery under conditions of perpetual care, but if this would have made the lots too expensive for persons of limited means, in every deed of sale there could have been inserted a condition of care on the part of the owner, and in case of neglect, the city to have power to supply the same and the cost to be a lien upon the lot, enforceable by forfeiture of title.

A neglected grave is not only repulsive and unsightly in itself, but it is a blotch upon the locality that mars the beauty of its surroundings. The few hours of labor and the trifling expense required to keep a lot in at least a presentable condition are too trifling to seriously burden any lot owner, and the neglect now painfully apparent in too many cases must be attributed to want of appreciation and sensibility rather than to poverty.

The completion of Riverside lawn, with its 126 lots now ready for sale and occupancy, will for the present meet the demand for perpetual-care lots, but at the present rate of sale this source of supply cannot be relied upon for many years. In fact, the present rate of sale will exhaust the supply of all lots in this cemetery in from six to eight years.

This fact most emphatically emphasizes the importance of early securing additional grounds for cemetery purposes adjoining the present lot if that locality is to be looked to to supply the future demands of our population in this direction.

GEORGE W. BACON.

JOHN P. YOUNG.

C. H. BARTLETT.

SUPERINTENDENT'S ACCOUNT.

RECEIPTS.

The following are the receipts of the Superintendent of Pine Grove Cemetery from January 1 to December 31, 1892:

Received as part payment on lots sold	\$622.00
for interments	507.50
for removals	57.50
for water rents	596.00
for labor on lots	793.05
for wood and logs	55.63
	<hr/>
	\$2,631.68

MISCELLANEOUS.

Number of interments	171
removals	18

Number of restricted lots sold	21
restricted lots unsold	112
Ordinary lots sold	31
Ordinary lots unsold	11
Lots sold on Hillside lawn	11
(Lots on Hillside lawn are now all sold.)	
Lots sold on Riverside lawn	1
Lots unsold on Riverside lawn	126
Number of loads of loam used	364
clay used	354
gravel used	300
sand removed	324
feet of 3-inch water pipe laid	465
hydrants put in	7
yards of concrete put down	1,117 $\frac{1}{2}$

Valley Cemetery.

The sub-trustees of the cemetery known as the Valley respectfully submit the following report :

During the year, in addition to the ordinary amount of labor expended in keeping the grounds in proper condition, the iron and wooden fences about the cemetery have been repaired, the former at an expense of one hundred and ten dollars, and the latter at an expense of twelve dollars. The fence was also painted at a cost of one hundred and seventy dollars. The bank wall on Pine street, near the brook, which had been undermined and damaged by surface water from the street, has been repaired at a cost of fifty dollars. The work of paving the bottom and edges of the brook, which had been carried on for several years, was finished the past year to the west line of the cemetery. Stone steps have also been placed in the path leading up the eastern side of the valley at a cost of seventy dollars.

The roof of the tomb, which has never been water tight since it was built, has been thoroughly repaired during the year at an expense of about three hundred dollars, and the trustees believe that no further trouble will be experienced therefrom.

The trustees are pleased to report that during the year greater interest than ever before has been taken in the affairs of the cemetery by the owners of lots therein, and a larger number of the lots have been improved and beautified during the last year than in previous years.

During the year monuments have been erected on the following lots: Nathaniel Baker, Edward P. Johnson, David Thayer, Joseph P. Felt, Miss Lucretia E. Manahan, Sewell L. Fogg, Frank B. Eaton, — Russell, and — Demay.

There have been eighty-six interments in the cemetery during the year, six removals of bodies, and forty-five bodies have been placed in the tomb.

The following is the account of the receipts and expenditures as reported to the committee by the superintendent:

SUPERINTENDENT'S ACCOUNT.

RECEIPTS.

Appropriation	\$3,000.00
Tomb fees	158.50
Graves and removals	245.00
Care and water	850.00
Labor and materials	546.50
	<hr/>
	\$4,800.00

EXPENDITURES.

Pay-Roll.

Paid C. H. G. Foss, superintendent	\$728.00
C. H. Griffin, labor	341.24
L. Leavitt, labor	332.25
James Hannan, labor	209.72
Jacques Bilodeau, labor	212.25
J. Conçannon, labor	27.69
H. Read, labor	7.65
	<hr/>
	\$1,858.80

MISCELLANEOUS.

Paid F. G. Riddle, printing	\$3.25
J. H. Rand, ashes	30.58
William Sutcliffe . . . . .	.90
Manchester Hardware Co., hardware	1.70
Michael Murray, manure	15.00
B. F. Bascomb, teaming	62.40
P. O. Woodman, turf and loam	26.75
J. B. Varick Co., hardware and seed	55.96
J. Francis, plants and labor	56.82
J. Hodge, lumber . . . . .	.45
F. M. Barnard, teaming	16.00
H. M. Whiting, shrubs	1.25
M. Haley, loam	28.00
Hartley Vaughan, manure	5.00
T. A. Lane, pipe and hose	22.26
Manchester Water-works	45.45
F. L. Bodwell, labor and stone	117.37
Patrick Knee, labor	5.00
L. M. Aldrich, lumber and labor	11.97
M. S. & R. Co., phosphate	6.00
Ray Brook Garden Co., plants	62.23
J. Brown, loam and labor	159.65
H. H. Huntress, plants	3.00
Temple & Farrington Co.	1.10
S. C. Forsaith Co., repairing fence	105.28
Pike & Heald, pipe and labor	84.86
Jones & Co., painting fence	179.00
George Dodge, rubber boots	2.25
H. E. Babcock, shrubs	2.00
S. S. Piper, stamps	2.18
F. X. Chenette, sand, etc.	9.13
Palmer & Garmon . . . . .	.45
L. L. Aldrich, labor . . . . .	.81
	<hr/>
	\$2,982.85
Paid S. B. Putnam, city treasurer	\$1,800.00
Balance	17.15
	<hr/>
	\$4,800.00

REPAIRS ON CITY TOMB.

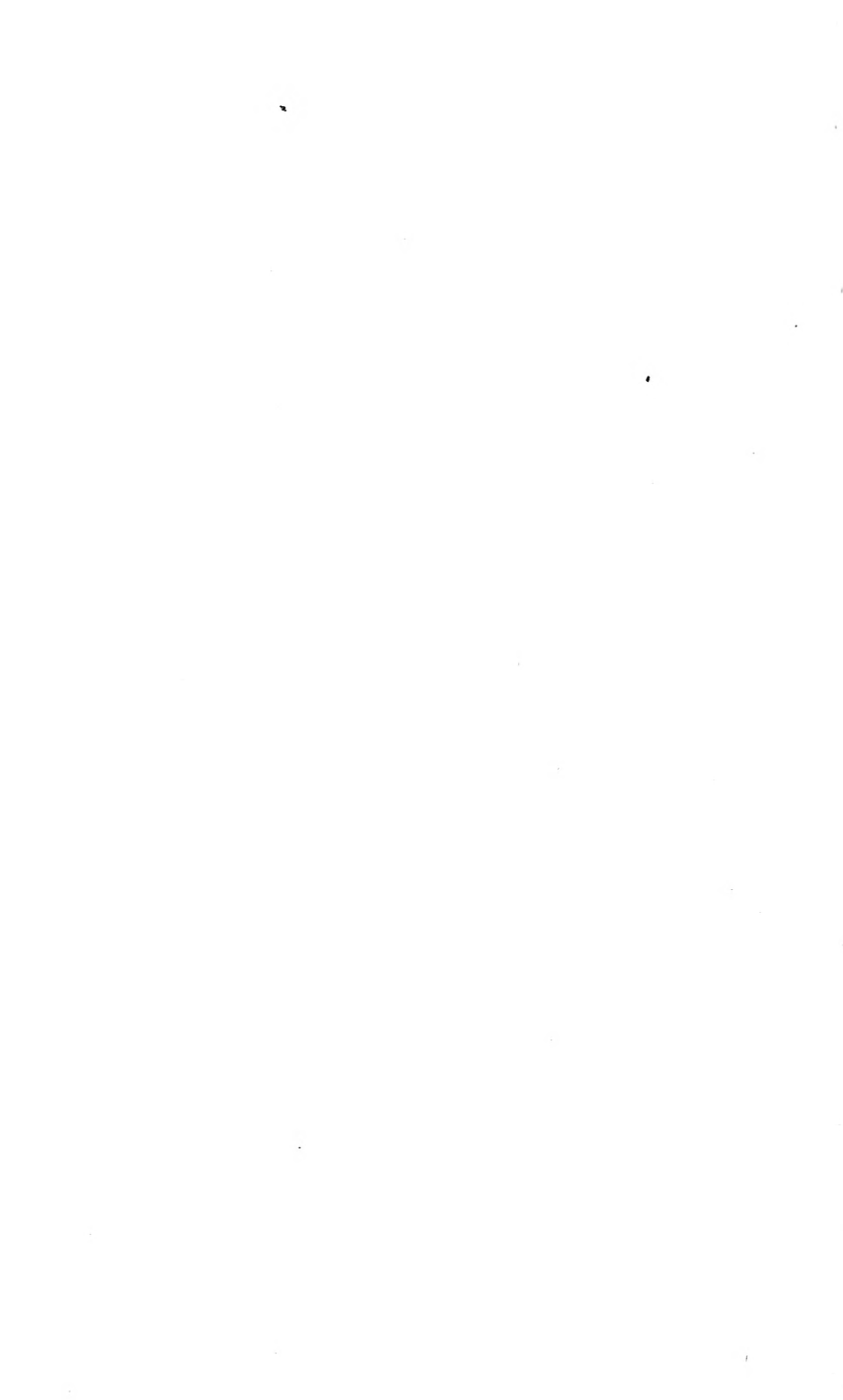
Appropriation		\$350.00
Paid Head & Dowst	\$290.22	
F. Bodwell	5.00	
	<hr/>	\$295.22
Balance		54.78
		<hr/>
		\$350.00

The duties of superintendent have been discharged during the year by Mr. Charles H. G. Foss with the same fidelity as in past years, and to the entire satisfaction of the committee.

JOHN J. HOLLAND,
LEVI K. SNOW,
N. P. HUNT,
J. M. KENDALL,

Sub-Trustees of the Valley Cemetery.

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 ordinance of said city the Overseers of the Poor herewith present their annual report for the year 1892 :

The whole number of families that have received more or less assistance off the farm during the year has been seventy, consisting of two hundred and thirty-four persons, all of whom have a settlement in this city. Four of this number died during the year. The whole number of paupers supported at the city farm during the year has been three more or less of the whole time.

The overseers of the poor recommend that the poor people sent to the city farm be kept exclusively from the prisoners sent to that institution, which is not the case at the present time ; also that the poor people be supplied with reading matter in the shape of books and newspapers containing the news of the day, and that a proper room be set apart where the poor shall be allowed to go and read such books and papers, and that all profanity of whatever description shall be forbidden by the superintendent and his assistants when indulged in by any of the city poor ; also that the superintendent be forbidden to punish any poor person under his charge at the city farm.

The whole number of persons supported at the state industrial school during the year has been two, 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 two, at a cost of two dollars per week for each person.

The overseers of the poor have given and allowed five hundred and eighty orders to the city poor during the year, consisting chiefly of groceries, fuel, medicine, board, clothing, and emergencies.

The amount allowed to the several wards is as follows :

Ward 1	. . . . .	\$82.50	
Ward 2	. . . . .	216.13	
Ward 3	. . . . .	334.15	
Ward 4	. . . . .	594.88	
Ward 5	. . . . .	1,914.66	
Ward 6	. . . . .	392.12	
Ward 8	. . . . .	737.09	
		<hr/>	\$4,261.53

MISCELLANEOUS BILLS ALLOWED.

State Industrial School, board of inmates	\$1,171.08	
Town of Lebanon, support of Dinnis Sul-		
livan	164.21	
Books and stationery	19.37	
	<hr/>	\$1,354.66
Total cost		\$5,616.19
Cash received from county of Hillsborough		<hr/> 1,171.08
Total expense		\$4,445.11

All of which is respectfully submitted.

WILLIAM H. MAXWELL,
 THOMAS L. QUIMBY,
 BENJAMIN F. GARLAND,
 GEORGE S. HOLMES,
 PATRICK COSTELLO,
 CHARLES FRANCIS,
 WILLIAM MARSHALL,
 WILLIAM WEBER,

Overseers of the Poor for the City of Manchester.

A true copy. Attest :

WILLIAM H. MAXWELL,

Clerk.

To the Mayor, Aldermen, and Common Council of the City of Manchester :

⁸ In compliance with chapter 81, sections 1 and 2, Laws of the State of New Hampshire, passed at the June session, 1889, the Overseers of the Poor herewith present their annual report under the head of "Aid to Dependent Soldiers and their Families."

The whole number of indigent soldiers who have received more or less aid during the year has been sixteen, consisting of ten families, all of whom have a settlement in this city, at a cost of two hundred eighty-one dollars and twenty-six cents.

All of which is respectfully submitted.

WILLIAM H. MAXWELL,
THOMAS L. QUIMBY,
BENJAMIN F. GARLAND,
GEORGE S. HOLMES,
PATRICK COSTELLO,
CHARLES FRANCIS,
WILLIAM MARSHALL,
WILLIAM WEBER,

Overseers of the Poor for the City of Manchester.

A true copy. Attest :

WILLIAM H. MAXWELL,

Clerk.

REPORT
OF THE
JOINT STANDING COMMITTEE ON
CITY FARM.

REPORT

OF THE

JOINT STANDING COMMITTEE ON CITY FARM.

*To His Honor the Mayor and City Councils of the City of
Manchester :*

GENTLEMEN,— The Joint Standing Committee on City Farm hereby submit to you their annual report for the year ending December 31, 1892.

Having fairly and impartially appraised all personal property at the farm, we find the summary as follows :

Live stock	\$2,293.00
Wagons, carts, and team furnishings	1,091.70
Farming implements	1,208.00
Hay, grain, and produce	3,223.12
Household furniture	2,693.99
Provisions and fuel	1,379.80
	<hr/>
	\$11,889.61

Statement of accounts for the year 1892 :

DR.

To appropriation	\$7,500.00	
overdraft	759.17	
	<hr/>	\$8,259.17

CR.

By cash receipts of the farm	\$2,458.11	
increase in stock	602.04	
permanent improvements	2,029.36	
bills receivable	19.35	
Balance	3,150.31	
	<u> </u>	\$8,529.17

Cash paid city treasurer, \$2,458.11.

Total number of weeks board, 2,645.

Average cost of board per week for each person, \$1.19.

Following is a list of crops harvested the past season, not including the amount used through the summer and fall :

Corn	1,000 bushels.
Potatoes	400 "
Carrots	616 "
Mangold beets	800 "
Blood beets	142 "
Turnips	75 "
Onions	60 "
Popcorn	10 "
Beans	12 "
Parsnips	10 "
Cider	30 casks.
Apples	80 barrels.
Hay	100 tons.
Corn fodder	25 "
Meadow hay	8 "
Cabbage	2 "
Squash	2 "
Celery	1,000 bunches
Pork	5,587 pounds.
Beef	1,120 "

Among the permanent improvements at the farm was the drilling of a new well which, with the piping and a new pump,

cost about twelve hundred and fifty dollars. The sewerage in the cellar has all been remodeled, and iron pipe hung through the cellar in place of akron pipe, and all the under-ground steam pipes have been replaced with new pipe. The large arch in the wash-room has been laid new and new kettles set, the arch in the kitchen has also been rebuilt.

Quite a large job of ditching has been commenced in the field between Lowell and Bridge streets, west of the Mammoth road ; some of it is now quite near completion.

The old blind ditch put in years ago from Bridge to Lowell streets was quite a large part of it Akron pipe, laid with cement, which gave the water no chance whatever to drain off. If the new ditch is completed as intended to be, and as some of it is nearly finished now, it will make a great improvement to the farm, for a part of the field is nearly worthless to cultivate as it has been years past.

We have been this year, as last, unable to realize what we ought from the labor of the prisoners, who might be used to good advantage on the streets. As a class they are able bodied and should be made to sweat the run out of themselves to some purpose and profit, instead of being hived up in idleness in a sweat-box known as a prison. To the knowledge of your committee no prisoner has escaped during the year, which speaks volumes in favor of its claim as a popular resort. Long after seashore and mountain boarders are gone its patrons linger. But, in all seriousness, the city should no longer be a party to this farce of supposed punishment. It has a duty to perform. The prisoners are subjects of its care, and, while they may be deprived of their liberty, ought not to be confined in unhealthy quarters. Nor should the moral atmosphere be such, from necessarily close contact, that all alike become hardened criminals.

A suitable prison building is imperatively needed, so that a classification can be made and a stricter discipline enforced ; a bill of fare should be established embracing only the necessaries, and it be made in fact a correctional institution.

Your committee have overcome a difficulty which has come up periodically for years, the scarcity of water.

Last year an artesian well was sunk in the well near the house. About the time it was completed the ordinary supply from the other well being forthcoming, nothing further was done until the drouth of the past summer, when your committee, using their best judgment, put in a hand or brake pump. While its cheapness was a consideration, the utilizing of prison labor was the desideratum.

A test was made. Four men very lazily raised the water in the reservoir one and five eighths inches in fifteen minutes, which would give nearly fifteen barrels per hour, or one barrel more than stipulated. This can be increased very readily twenty per cent, so that your committee are very much pleased with their much criticised venture.

The appointment of the same aldermen on the city farm and house of correction committees is a move in the right direction, as much better results can be attained by placing the responsibility on one committee.

In this connection we would tender our hearty thanks to the committee on house of correction for the considerate and gentlemanly manner in which we were met at all times.

The hampered condition of the buildings is such as to very materially handicap the superintendent and his efficient matron from obtaining the best results, yet an examination of the foregoing statements will contrast favorably with former years.

Respectfully submitted.

WALTER M. FULTON,
BYRON WORTHEN,
ALBERT J. PEASLEE,
D. J. AHERN,

Joint Standing Committee on City Farm.

REPORT OF THE CITY SOLICITOR.

REPORT OF CITY SOLICITOR.

To the City Councils :

GENTLEMEN,—I hereby submit my report for the year 1892 as City Solicitor.

Following the views expressed in my last report as to the expediency of settling suits to which the city is a party when it can be done on a reasonable basis, the following named cases, which were upon the docket of the supreme court January 1, 1892, were disposed of by his Honor the Mayor and myself, under authority from the city councils, without trial, and, in my judgment, in a manner beneficial to the city, viz.: *Lee Big v. Manchester*, *Edwin Branch v. Manchester*, *Honora Russell v. Manchester*, *Edward Wyman v. Manchester*, all suits for damages for personal injuries resulting from alleged defective highways; *Manchester v. Weston and others*, to recover damages paid by the city on the verdict in action *Mary Kildea v. Manchester*; *Manchester v. John Ferguson*, to recover damages paid by the city on the verdict in action *Margaret Kelley v. Manchester*. Also the following suits, begun during the year, were disposed of in the same manner, viz.: *Michael Collins v. Manchester*, *Bridget Hodgkins v. Manchester*, *Emerance Desilets v. Manchester*, being all suits for damages for personal injuries, the first received while working in one of the city sewer trenches, the others received in the use of alleged defective highways.

The cases of *T. S. Colby v. Manchester* and *M. Colby v. Manchester*, pending January 1, were withdrawn by the plaintiffs after being in court nearly three years.

The cases of *Celia Clark v. Manchester*, *Inez Tirrell v. Manchester*, *R. N. Whittemore v. Manchester*, *Thomas Lane v. Man-*

chester, and *Sarah E. Mayhew v. Manchester*, at the March term of the court were tried by jury and resulted, the first three in verdicts against the city, while the jury rendered verdicts in favor of the city in the last two.

The case of *William M. Parsons v. Manchester*, which was tried by jury in 1891 and taken to the law term by the city, was decided in favor of the plaintiff and judgment ordered on the verdict.

The appeal of *Campbell & Maxwell v. Manchester* was before the law term and a decision rendered in favor of the city, but an amendment to the case was allowed and it is still pending in court.

The cases of the *City v. M. J. Jenkins and his bondsmen*, pending January 1, have been referred to Thos. D. Luce, Esq., and will be pushed to trial as soon as possible.

The case of *Charles S. Cousins*, pending January 1, was taken to the law term on an agreed case, and judgment rendered in favor of the plaintiff.

The cases of *Augusta Currin v. Manchester* and *Catherine McCarthy v. Manchester* are still pending on the docket.

During the year the following cases were begun against the city and are now pending in court.

Mary Dickey v. Manchester and D. H. Dickey v. Manchester,

Being suits for damages to land owned by the plaintiffs by the overflow of water from the city reservoir.

C. H. Bodwell v. Manchester,

A suit for damages for personal injuries received by being thrown from his carriage owing to an alleged defect in Nutt road.

T. E. McDerby v. Manchester.

Brought to recover damages caused by water flooding the cellar of the plaintiff's store on corner of Pine and Laurel streets, by the bursting of a city water pipe.

Michael Williams v. Manchester.

An action for personal injuries caused by an icicle dropping from the roof of the court house on plaintiff's head.

Janet B. White v. Manchester.

A suit for damages for personal injuries caused by falling on South Main street, owing to an alleged icy condition thereof.

S. Woodman v. Manchester.

A suit to recover the damages allowed by the board of mayor and aldermen for land taken for a new highway, but disallowed by the city auditor, on the ground that the plaintiff, or her grantor, had laid the street out on a plan, and sold lots by the plan. A question of law only is involved in this case.

Manchester v. Warren & Beede.

- Brought to recover the damages the city paid on the verdict in the case of *R. N. Whittemore v. Manchester*.

The city recovered about \$800 in an action with the estate of John R. Hanson, on a note and mortgage over twenty years old, after a trial before Judge Clark.

The case of J. O. Burbank to recover \$64 damages caused by lowering the grade of Massabesic street was tried before Judge Clark, and judgment rendered in favor of the plaintiff.

The petition of D. C. Whittemore and others for the extension of Putnam street was tried before the county commissioners, and the petition dismissed, the city agreeing to build a substitute therefor.

The petition of the city for the discontinuance of a portion of old Bridge street road was tried before the county commissioners, and the petition was denied.

The petition of P. C. Cheney and others for a new highway from Manchester to Goffstown is still pending, but has never been pushed for hearing by the petitioners, and will probably be dropped during the coming year.

Two matters in which the city of Manchester is a party are pending in court, which arise from the controversy over a site for a new railroad station, viz., the petition of Manchester for the discontinuance of a portion of Canal and Central streets, and the appeal of the Boston & Maine Railroad from the decision of the mayor and aldermen in widening and straightening Canal street.

The Kimball Carriage Co. has an appeal from the tax imposed by the assessors in 1891, pending on the docket.

The following cases are on the session's docket, all being appeals from the award for damages made by the mayor and aldermen for land taken for new highways, viz., *Batchelder & Clark v. Manchester*; *Executrix of John S. Woodman v. Manchester*; *A. Elliott v. Manchester*; and *Abbie M. Sawtelle v. Manchester*.

The foregoing is a summary of the matters which during the past year have been before the supreme court. I have the pleasure of announcing that not for a number of years has the docket of cases against the city contained so few and so unimportant actions. The old and vexatious cases have been disposed of, and those which remain are not what are usually considered bad ones. But, as I have stated in former reports, the business in court is but a small part of the solicitor's duties. The other duties of the office have all received my attention and my best efforts. Many claims have been investigated, legal conundrums answered, many meetings of the mayor and aldermen and of committees have been attended, legal documents drawn, and all city officials advised to the best of my ability. To the various city officers I am indebted for assistance and courtesy, and to His Honor the Mayor especially I would express my hearty appreciation of his uniform kindness and apparent confidence.

Respectfully submitted.

EDWIN F. JONES,
City Solicitor.

REPORT OF THE CITY PHYSICIAN.

REPORT OF CITY PHYSICIAN.

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

I herewith submit my report for the year 1892 :

Total number of patients, 98.

Total number of visits made, 872.

Diseases treated : Bronchitis, acute, 4 ; bronchitis, chronic, 2 ; phthisis pulmonalis, 9 ; acute indigestion, 3 ; rheumatic arthritis, 5 ; chronic constipation, 4 ; locomotor ataxia, 1 ; varicose veins, 4 ; follicular tonsillitis, 5 ; miscarriage, 1 ; peritonitis, 1 ; cerebro-spinal meningitis, 1 ; delirium tremens, 12 ; syphilis, 2 ; cholera morbus, 4 ; urethral stricture, 2 ; cystitis, chronic, 2 ; insanity, 8 ; cases requiring surgical treatment, 28.

I would respectfully call the attention of your honorable body to the urgent and immediate necessity of an emergency hospital. The rapid growth of the city has made the need the more pressing. Manchester is destitute of a place to care for insane, delirium tremens, or confinement cases. None of the hospitals of the city will receive persons suffering from insanity or delirium tremens. The Mercy Home is the only place where confinement cases are received, and the great distance of the latter institution from the center of the city renders it useless in cases of emergency.

There have been many persons suffering from contagious diseases the past year, and the city and the county have been to great expense in caring for such patients at the pest-house, where the necessary facilities for proper care are entirely wanting.

I have had cases of delirium tremens where the victim was compelled to stay in one of the cells at police headquarters for

three or four days, his condition being aggravated by his drunken neighbors, and his recovery retarded.

One of the chief needs of a hospital is the great number of surgical cases, now increasing, that are coming into police headquarters. The chances for successful operations are very small when the surroundings and conveniences are taken into account. Loss of life will be the inevitable result, unless some means are provided for their care.

FREDERICK PERKINS, M. D.,

City Physician.

REPORT OF THE MILK INSPECTOR.

REPORT OF MILK INSPECTOR.

To his Honor the Mayor and the Board of Aldermen of the City of Manchester :

I herewith submit a report for the year 1892 :

The method of inspection of the samples gathered and of those submitted by private parties during the year is exactly the same as for the past two years, all samples being first tried by instruments to ascertain if they were up to the required per cent of solids, and are not submitted to chemical analysis unless found below the standard by the instruments, unless they are submitted for the purpose of finding coloring matter, conserraline, or preventive. The time best suited for gathering samples is from 1 o'clock to 6 o'clock A. M., as nearly every milk route in the city supplies its customers between these hours during the summer months, while in cold weather they do not deliver the milk until after daylight.

The samples taken during this year have been much better than a year ago, and the shortage during the summer months was much less, besides, dealers have made better arrangements for obtaining supplies than formerly, in order to guard against any drouth or long dry season whereby the supply would be diminished.

The milk supply of the city has been somewhat augmented by the fact that the Messrs. Hood & Sons, of Derry, during the past year have taken a license and have set off milk from their cars to those who wished it, and the Messrs. Whiting & Sons, of Wilton, have done the same. These two firms have each two milk cars passing through the city daily for the Boston market, the cars of one firm going by the way of Nashua while the

others go over the Lawrence road. The samples taken from the milk set off from these cars have proved of good quality. It is only a matter of time when a full car of milk will have to be left at our station in addition to the supply brought to the city by teams.

At the March term of the supreme court eight indictments were found against as many dealers, all the complaints but one having been made in the latter part of 1891, subsequent to the September term of court, and could not be brought before grand jury until the March term of 1892. The committee on revision of statutes in the legislature had in the meantime changed the law regarding the evidence required for conviction, and when the cases were brought to trial the court ruled that they must be tried under the revised law, and the cases were *not prosequi* as it entirely dispensed with the evidence found from chemical analysis. A bill has been introduced in the present legislature to so amend the law as to make it available in protecting the people of our city against "extended" and adulterated milk. There is no reason why we should not have a good, pure milk sold in our city, and that it should be of a good merchantable standard, and the law protecting the quality cannot be too severe.

There has been an increase of small routes during the year, some only carrying one or two cans, the cans holding eight and one half quarts each.

There are now 104 milk routes which deliver daily within the city limits, 17,374 quarts of new milk and 1,485 quarts of skimmed milk. Estimated number of cows to produce the daily supply of milk for the city, 2,693. Nearly all the milk produced within a radius of eight or nine miles of the city is used within the city limits, and a prolonged drouth of a few weeks in the summer season creates a shortage which has caused at times in the past much inconvenience to those depending largely upon milk as an article of food.

The number of licenses issued during the year was 133, amounting to \$66.50.

No cases of tuberculosis have been reported to the office during the year.

Seventeen complaints regarding milk were made during the year to this office, and were at once attended to.

The ruling price per quart has been five cents, although many put up the price to six cents during the winter months, but the larger part of the milk men kept the old price and sold for five cents.

With the license at fifty cents, there is very little protection to the business of selling milk, yet the milkman who pays that attention to his business which it deserves has invariably a better route and is always in demand with his customers.

Very respectfully,

H. F. W. LITTLE,

Milk Inspector.

REPORT OF THE CITY MARSHAL.

REPORT OF THE CITY MARSHAL.

MANCHESTER, N. H., December 31, 1892.

To the Honorable Mayor and Board of Aldermen :

GENTLEMEN, — I have the honor to submit to you the annual report of the police department for the year ending December 31, 1892, showing the strength and condition of the department. At the date of making this report the department consists of one city marshal, one assistant city marshal, one captain of the night patrol, and thirty-three patrolmen. One of the patrolmen was detailed by your honorable board to act as sergeant of the night patrol, and another of them was detailed by myself to act as inspector. During the year two patrolmen who were acting as sergeant resigned, viz. : Melvin J. Jenkins and Jonathan E. Floyd, and the vacancy was filled by the election of Charles W. Stevens and Theodore Floden. Henry A. Burns was selected to act as sergeant and has done so satisfactorily.

DISCIPLINE.

It has been my design since taking charge of the department to place the force on as good a footing as possible for one of its size, to have discipline and to require the men to perform their duties according to the rules and regulations of the department, and in consequence thereof the force, in my opinion, has been improved and brought to a better standard of discipline, and in the diligent discharge of its duty fully merits the confidence of the people of this city. The officers, with a few exceptions, have shown a disposition to do their duty faithfully and impartially. Four officers have been suspended by me during the

year for misconduct, two of whom resigned, one suspended without pay for twenty days, and the other I allowed to return to duty after a few days' absence, on promise of better behavior.

DETECTIVE DEPARTMENT.

During the last nine months of the year I have, with the consent and approval of his Honor the Mayor, detailed officer John T. O'Dowd to act as inspector and look after the detective work of the department, which he has done with skill and energy, working night as well as day when required. Neither time nor distance has prevented the pursuit of criminals. Several have been overtaken and brought back from other cities and states and punished for their offenses. The wisdom of having an inspector is shown by the good work done by the department during the past year in recovering lost and stolen property. Lost property to the amount of three thousand five hundred and fifty-three dollars and eighty-five cents, and stolen property to the amount of three thousand eleven dollars and fifteen cents has been recovered and returned to the owners thereof. Among the list of stolen property recovered are several teams, and in every instance but one the thief has been captured and punished, and he is now serving a sentence for horse stealing in a Massachusetts house of correction.

MATRON.

This department has been looked after very efficiently by the present matron, Miss A. Burnett Brown, who takes great interest in her work, in providing for and attending to the wants of all unfortunate women who are arrested and brought to the station-house, and to all others who need her assistance. I would recommend that a portion of the prison be set aside for the exclusive use of females, and that a room be provided somewhere in the building for the use of the matron.

MORALE OF THE CITY.

There has been an increase of arrests over last year, but the city as a whole has been remarkable for its good order and free-

dom from what is considered the heavier class of crime. This was particularly noticeable last summer and fall, when we had several large celebrations, such as circus processions, torchlight processions, etc., which called out a large number of our people. There have been more gatherings of this nature during the past year than any preceding year to my knowledge.

POLICEMEN.

The police business, from its nature, is liable to make enemies, for the officer who, in performance of his duty, conscientiously shows no favors is liable to run against the sharp corners of men, and test the peculiarities of human nature, for seldom is a man arrested who has not sympathizing friends who are ready to believe the officer has exceeded his authority. So long as it is necessary to arrest annually several hundreds of persons, so long will there be a considerable number of people who are not friendly towards the police, and who will criticise it and magnify its shortcomings whenever an opportunity offers.

The officer who is a good fellow is liable to be a bad officer. The duties of the police are of such a character that it is absolutely impossible for a conscientious officer to pander in the smallest degree to the wishes of the disorderly element. Again, respectable business men fail to comply with or wilfully violate certain ordinances. It is the sworn duty of the officer to bring this good citizen into court. He discharges that duty promptly and gets the lasting enmity of not only the respectable business man but of all the large circle of friends of the said business man.

RECOMMENDATIONS.

I would recommend that something be done towards establishing an emergency hospital in or near the station. It seems to me that in a city of this size, where large manufactories are located, accidents are liable to occur any time, and the injured should have hospital treatment at once. That we have been slow in this matter is a fact that cannot be disputed.

I earnestly recommend to your favorable consideration the matter of establishing the police telegraph system in this city.

Although we have the full complement of men allowed by the ordinance, viz., thirty-six men, there is a constant demand for more police protection. I desire earnestly but respectfully to call your attention to the fact that there are a number of streets that are never visited by any member of the police force unless an officer is especially summoned. I would therefore recommend that the ordinance be amended so as to provide for an increase of the force at an early date.

In accordance with the requirements of the city ordinance I would submit the following report of all cases which have been brought before the police court, and their results, during the year 1892 :

Assault, 145 ; aggravated assault, 4 ; assault on officer, 5 ; abortion, 1 ; adultery, 3 ; begging, 5 ; breaking and entering, 27 ; bigamy, 1 ; breaking glass, 5 ; bound over to keep the peace, 2 ; building privy vault, 1 ; common street walkers, 2 ; drunk, 1,546 ; driving team on sidewalk, 1 ; distributing handbills, 4 ; driving over hose at fires, 1 ; evading car-fare, 2 ; exposure of person, 4 ; embezzlement, 7 ; felonious assault, 1 ; fornication, 16 ; fast driving, 17 ; idle person, 1 ; gambling, 2 ; injury to personal property, 1 ; keeping spirituous liquor for sale, 43 ; keeping malt liquor for sale, second offense, 19 ; keeping malt liquor for sale, 113 ; keeping spirituous liquor for sale, second offense, 1 ; keeping open Sunday, 22 ; keeping dog without license, 37 ; larceny from person, 4 ; larceny, 112 ; manslaughter, 1 ; non-support, 2 ; noise and brawl, 57 ; obscene and profane language, 8 ; obtaining goods by false pretences, 1 ; obstructing officer, 1 ; permitting gambling, 1 ; playing ball in streets, 3 ; rape, 1 ; receiving stolen goods, 3 ; running away from house of correction, 7 ; stealing a ride, 3 ; selling liquor, 2 ; stubborn child, 3 ; truants, 4 ; throwing snowballs, 2 ; vagabond, 6 ; vagrant, 1 ; total, 2,264.

The foregoing cases were disposed of as follows :

Gave bail to keep the peace, 1 ; nol pros'd, 35 ; paid fine imposed, 794 ; committed to the house of correction for non-payment of fines, 760 ; committed to the house of correction on sentence, 69 ; committed to jail for non-payment of fine, 65 ; committed

to jail on a sentence, 2 ; committed to the state reform school, 8 ; bound over for their appearance at the supreme court, 96 ; committed to jail, bail not furnished, 78 ; committed to the county house of correction at Wilton, 55 ; committed to the county house of correction at the jail, 2 ; sentence suspended, 158 ; appealed, 20 ; nol pros'd, paid costs, 10 ; discharged, 36 ; continued for sentence, 34 ; whole number arrests, 2,683 ; whole number females, 340 ; whole number males, 2,343 ; on file, 40 ; whole number admitted for lodging, 1,207 ; accidents reported, 14 ; assisted out-of-town officers, 58 ; buildings found open and secured, 415 ; cases investigated, 569 ; cases cruelty to animals investigated, 40 ; defective streets and sidewalks reported, 173 ; disturbances suppressed, 531 ; dogs killed, 41 ; dogs lost and found, 18 ; dangerous dogs, notice served to owners, 30 ; fires discovered and alarms given, 20 ; fires extinguished without an alarm, 38 ; injured and sick persons assisted, 49 ; intoxicated persons taken home, 308 ; lights extinguished in buildings, 74 ; lights furnished for dangerous places, 173 ; lost children restored to their parents, 99 ; money or other stolen property recovered, \$3,011.15 ; money or other lost property recovered, \$3,553.85 ; nuisances abated, 48 ; search warrants for liquor served, none found, 6 ; stray teams put up, 48 ; street obstructions removed, 366.

The following amount has been received for fines and costs imposed by the police court from December 31, 1891, to December 31, 1892, \$8,304.25. It has been paid over to the city treasurer.

In closing my report I would tender my thanks to his Honor the Mayor for the advice I have received at his hands, to the city council for the courteous treatment and cordial support I have received from them. I also extend my thanks to Judge Hunt, Clerk Bickford, and City Solicitor Jones for their advice and support. I would also remember the members of the police department for their efficient aid in the discharge of their duties.

Respectfully submitted.

M. J. HEALY,

City Marshal.

REPORT
OF THE
SCHOOL COMMITTEE.

REPORT OF SCHOOL COMMITTEE.

MANCHESTER, NEW HAMPSHIRE,

December 28, 1892.

To the Honorable City Councils :

The forty-sixth annual report of the School Committee of the city of Manchester, and the final report of the present board, is respectfully submitted to you and to the citizens of Manchester.

In submitting this report the committee desires to acknowledge the courtesies it has received from your honorable bodies. This is the more necessary because of the anomalous position in which the school committee is placed. Elected by direct popular vote, and being, therefore, primarily responsible to the people, this committee has not even concurrent voice in determining the amount of appropriations for school use or in deciding what accommodations shall be provided for the increasing number of children of school age. The committee having presented its recommendations becomes thereupon a pensioner upon your bounty. Confusion of responsibility is inevitable. The school committee might be justified if it were to feel itself discharged of all financial obligation to the citizens save that involved in the judicious expenditure of the whole amount placed at its disposal.

Year after year, the appropriations granted by the city councils have been appreciably less than the amounts asked for by the successive school committees. And the actual expenditures have been faithfully kept within the amounts of the appropriations. This committee has followed the same course during the past year, thought not without sacrificing something of efficiency in the schools. In view of these facts, it seems to us either that the full amounts asked for, as given in the report of the sub-committee on finance, be set aside for school use ; or, that the

proper steps be taken to so amend the charter of the city that the school committee, itself a popular and representative assembly, shall have power to originate measures involving the expenditure of money for educational purposes, and to act thereupon in concurrence with the city council and the board of aldermen. And this matter is respectfully submitted to you for your earnest consideration.

At a special meeting of this committee, held December 30, 1891, it was voted, upon recommendation of a committee appointed to consider the matter in all its bearings, that "the city councils be requested to appropriate \$1,500 to enable the board to establish a course of manual training in connection with the grammar schools during the (then) coming year." This request seems never to have had full discussion. The pressure of other demands may, very likely, have made it appear wise for your honorable bodies to ignore this communication. More probably, the antique position which our schools are compelled to take in this respect is the result of erroneous impressions as to the purpose and scope of the request. A full discussion of the system of manual training is not possible within the limits of this report. Fortunately, the ground has been admirably covered in previous reports. The question, *i. e.*, that of the advisability of introducing manual training into the common school course, is no longer debatable. Manual training, not technical training, designed not to fit pupils for different trades, but to develop their resources and qualify them with power, with quickness and precision in apprehension and with facility in execution, is an admitted necessity to the best modern common school education. It is of immediate importance, therefore, that the request of this committee be no longer disregarded, and that suitable provision be made for the preliminary steps leading to the full development of this system in our public schools. For that purpose the amount indicated in the recommendation of this board is less than might profitably be used.

There is urgent need of more school room. Aside from the districts where new schoolhouses have recently been erected, the demand is universal. Ward nine has no provision made for the

children who do not attend the parochial schools, or who would not attend them if there were another school accessible. The Lincoln-street building is overcrowded. The Webster-street school, if not over full, imperatively needs more room for the proper grading of classes. The Ash-street school would overflow if there were any other place for the superabundant pupils. At the first meeting in the year, January 1, 1892, it was voted that the city government be requested to erect a building to accommodate at least two schools, on the city's lot at the corner of Bridge and Union streets. At the meeting of the board held April 1, 1892, it was voted in response to a communication from the city councils, that it was advisable to sell the Lake avenue school building, and to erect, from the proceeds of the sale, a suitable school building upon the site mentioned above. The Lake avenue building was sold; the lot at the corner of Bridge and Union streets is still vacant.

If the necessity of erecting a building for school use upon this lot be questioned, there can be no question as to the necessity of providing more school room somewhere in the northeastern part of the city. A communication from this board, by vote passed at the regular meeting of October 7, 1892, has been presented to you, suggesting the advisability of providing new accommodations within the present Ash-street district, preferably somewhere in the vicinity of Orange and Linden streets. This matter cannot be much longer delayed. Already the children in that district are put to serious inconvenience, and the usefulness of the Ash-street school is impaired by lack of room.*

In the Webster-street school also, the accommodations are inadequate. In this case the difficulty is two-fold,—the pressure of numbers, and the need of better grading. With a very few scholars, a teacher may successfully care for classes in six or seven different grades. On the other hand, with but one grade or perhaps two, a teacher need have no great difficulty in caring for as many scholars as the room can be made to hold; but no teacher can do justice to a room full of scholars representing half-a-dozen different grades. And there is, moreover, a deplorable nervous exhaustion manifest in the young children who must be present

*Since this report was presented some steps have been taken towards providing a new school on Pearl and Linden streets.

while recitations are being conducted by many classes with different lessons.

In a short time the Children's Home will be brought within this district, and provision must be made for this sudden increase in the lower primary school. The recommendation submitted by vote of this board will be at best but a temporary measure.

In ward nine there are some children attending the parochial school who would, if they could, attend the public school. It is the opinion of this board that the education made possible by the public schools is far better than that which can be afforded by any private enterprise. Whether this opinion is justified or not, it is the duty of the city government to provide suitable accommodations for every child who wishes to avail himself of this common-school education. If there are very few such children, it may be best to provide free transportation to the nearest public school. On the other hand, if establishing a public school in this vicinity would tend to draw pupils to that school because of its inherent superiority, the expenditure would be justified if there should be but two or three scholars registered at the first. The fact must be emphasized that our common duty is not only to provide such accommodations as are definitely demanded, but also to stimulate the demand for such education as our common schools afford, and to increase their constituency by their manifest superiority and by their ready availability. It was in view of these facts that the recommendation was presented to you, suggesting that a school building be erected in this district providing two rooms, and so constructed that the number of rooms may be increased with slight expense whenever it may seem expedient.*

No definite recommendation has been submitted to your honorable bodies relative to the need of more room in the Lincoln-street district. There is some difficulty in deciding upon the best plan for relieving the extreme pressure now felt in this school, but there is no difficulty in perceiving that some provision must be made, at no distant day, for the demand thus indicated.

*This recommendation also has been acted upon by the city councils. (April, 1893.)

In view of these considerations, this committee would respectfully request that a joint commission be appointed, including one member of the school committee from each ward, one member of the city councils from each ward, and his Honor the Mayor, *ex officio*; and that this commission be given full power to take such action as it may find expedient regarding the increase of school accommodations in the city; and it is recommended that this be made a standing commission.

Aside from the matter of accommodations, the buildings under our care are turned over to our successors in as good condition as is possible in view of the limited amount placed at our disposal. Some of them should be repaired, some should be replaced; very few are satisfactory. This committee, while insisting that its responsibility is limited by the restrictions imposed by the cutting down of its estimates, feels that it has not done all that the best interests of the city have demanded. It has only done what was possible to it. Either the appropriations must be increased, or there will soon come an immediate and urgent demand for an expenditure far exceeding the sum of the amounts supposed to be saved yearly by trimming down the estimates of successive committees. In educational matters, above all else, the wisest expenditure is the truest economy. The economy is in the use rather than in the amount. If there is a prospect that the city may issue bonds for internal improvements, special provision should be made in the enabling measure setting aside at least eight per cent of the face of the bonds for school purposes. In any event, this whole item of schoolhouses could with profit be permanently referred to such a commission as is recommended above.

During the year six new rooms have been opened: two in the Varney school, and one each in the Goffe's Falls, South Manchester, East Manchester, and Ash-street schools.

Upon recommendation of a committee appointed to consider the request of the principals of the Varney and Ash-street schools, the school hours were so changed at these schools as to do away with the afternoon recess. At the Ash-street school this arrangement is still continued, and seems to give general satisfaction.

At the regular meeting of June 3, 1892, Mr. William E. Buck was unanimously re-elected superintendent of public schools. We heartily commend his faithful and efficient administration of the affairs entrusted to him. He has been in the service of the city in this capacity for fifteen years, and during that time our schools have made great progress in all respects. We forward his detailed report to you, in full, and commend to your consideration the recommendations therein embodied, with our unanimous approval.

At the meeting held September 3, 1892, Mr. Samuel Brooks was unanimously re-elected truant officer. His report may be found with the statistics in the Appendix. In this connection, attention should again be called to the fact that there is no adequate provision made for an accurate school census. Under the present arrangement the assessors are supposed to report the number of children of school age in the city. For some reason, the number thus reported has repeatedly been found less than the number of scholars actually attending the public and parochial schools. A census of this kind is worse than useless, it is misleading. It is the opinion of this committee that provision should be made for a special school census, to be taken yearly under the direction of the school committee and by an officer appointed for that purpose. The work of the assessors being thus reduced, it would be possible to carry out this plan with little if any extra expense.

From the report of the truant officer it appears that 445 employment certificates have been granted, the average age of the children receiving them being approximately fourteen and one half years. Of these 445, all but 79 were of foreign birth or parentage. Two hundred and sixteen, or a little more than forty-eight per cent of the whole number, were of French extraction, and of these children only 72, exactly one third, were reported as able to read in the English language. It is unfortunate that more than sixteen per cent of all the children granted employment certificates should pass out from the schools in the city with no apparent familiarity with the common tongue of the land. Some of these 144 children will, undoubtedly, acquire,

if they have not already acquired, a speaking knowledge of English. Nevertheless, this is evident: the requirements of American citizenship demand that the law as it now stands upon the statute books should be so amended that its original intention may be carried out and the English language be legally established as the only one in which any official test of elementary learning may be given. And this case is respectfully commended to the consideration of the people, and of their representatives in the legislature.

The evening schools opened last winter as hitherto reported, completed the full term, and the sub-committee having them in charge reported a good attendance and satisfactory progress on the part of the pupils. The session of this winter began November 14, and continues with similar results.

Too much cannot be said in favor of these schools, or in commendation of the evening drawing schools. The value of the latter is shown not only by the drawings produced but also by the general improvement in the workmanship of those to whom this practice in drawing has given deftness and skill. As is the case in all branches of manual training, the benefit is more than the mere acquirement of a new accomplishment. It is found in the greater accuracy of perception, the increased mechanical skill and understanding, and the general ability to unite thought and act.

It has not been thought best to prepare any exhibit for the World's Fair. This committee shares the common regret that the excellent work done in our schools will thus be deprived of a possible international recognition, but the decision was rather one of necessity than one of choice. While there was yet time to prepare an exhibit that would be fairly representative, it appeared that no sufficient floor space would be afforded by the commissioners. When it transpired that room could be secured in the New Hampshire building, it was too late to prepare a satisfactory exhibit. And this committee was unanimously of the opinion that it would be better to have no showing at all than to have one hastily prepared and sure only to misrepresent the work of our schools.

One teacher, loved and respected by all, has been removed by death, Miss Lucretia E. Manahan.

At the meeting of this committee, held February 5, 1892, the following resolutions were unanimously adopted by a rising vote :

WHEREAS, God in His wisdom has removed from our midst Miss Lucretia E. Manahan, for many years a teacher in the High School ;

Resolved, That her zeal and devotion to her duties and her untiring energy have earned our deepest respect, and that we feel that our school has met with a serious loss.

Resolved, That, as a token of our respect, these resolutions be entered in the minutes of the board, and that a copy be sent to her mother.

It was also voted that, in view of the extra services of Miss Manahan, her salary be continued through the month of January.

It is hardly possible that any two minds would agree as to the best course of study to be followed in our schools from the lowest to the highest. Probably no member of this committee is entirely satisfied, so far as his individual opinion is concerned, with the present curriculum. It must be understood that here, as everywhere else where the needs and opinions of many people are to be considered, it is only by general compromise that any approximately satisfactory results are secured. Moreover, it is a well established fact that the character of the schools at large is determined from the highest down, not from the lowest up. The college or the university gives its tone to the high school, the high school acts upon the intermediate schools, and so on. This is a truth which does not at all depend upon the wishes of school boards or upon the opinions of individuals. The common characteristics of the lower schools, and the ordinary courses of study to be pursued in them, were practically determined for this country when Harvard College was established in 1636. The limits circumscribing such a report as this preclude the possibility of verifying these statements at length. And, indeed, they may be easily verified by a little reflection. But there are implied some things which may be here touched upon.

Where a large percentage of the pupils look forward to the highest education, the difficulty of determining the courses of

study in the lower and preparatory schools is reduced to a minimum. Where, on the other hand, but few of the pupils are so inclined or so directed, the difficulty is at the greatest. There is no sign more encouraging to those who have the welfare of our schools at heart than the fact that more and more of our children of both sexes are seeking for the higher education. It should never be forgotten that every pupil in our common schools who prepares for college not only adds to the general culture by the amount of his attainment and by the contagion of his purpose, but also exerts a reflex beneficial effect upon the schools. The colleges in this country are tending always to elevate the standard of scholarship and at the same time to get into closer touch with modern life. These institutions are more sensitive to the needs of the people than are our high and grammar schools, and the demands they make upon the lower schools are imperative.

Where the higher institutions have little contact with the public schools, there the courses of study are most completely at the mercy of caprice and passing whims. Parents and voluntary spokesmen find it comparatively easy to insist upon such measures as are likely to result in the most brilliant immediate showing, and to demand that the children be filled with knowledge rather than that they be developed in power. Our schools are not entirely free from the effect of such conditions.

The growing sentiment throughout the country seems to approve the declaration of President Eliot to the effect that years are wasted in the preparatory schools through faulty direction, and that, as compared with those of Germany, the schools of America are inferior in respect of economy in time and effort. This is not to be charged to deficiency on the part of school boards, much less to any failing on the part of the executive officers who are but the representatives of those boards. It is rather to be considered an expression of an undeveloped public sentiment. The remedy will come unless the signs that are in the air all fail; first, through the changed demands made by the higher institutions, and then, as an indirect consequence, through the developed sentiment of the people.

It may be frankly stated that the courses of study followed in our

schools, and the methods employed, are not ideal. There are some changes that will not be long deferred. Already from one college and another comes a demand for better equipment in the understanding and use of the English language. It is coming to be seen that life itself calls for power and facility of mind, rather than for variety and extent of information. And our schools will respond. But it is the conviction of this committee that in these respects, as in others, our schools are not inferior to those of any other city in the land where no better facilities are afforded. We are proud of our public schools; so proud of them that we are eager for such public aid, through suggestion and support, as will make even the appearance of rivalry with them impossible. To that end we urge upon your honorable bodies, and upon the citizens at large, the necessity of a deeper concern in all matters pertaining to public instruction, and a more generous consideration of these supremely important items in the public expenditure.

To that end, also, we urge upon the parents of the scholars in our schools the duty of closer identification with the schools by personal visiting, by constant interest in the work of the scholars, by more thoughtful regard for the purpose of all true education, and by insistence upon the methods which shall secure the highest, broadest, deepest culture for their children.

Respectfully submitted.

CHARLES S. MURKLAND,

For the Committee.

SUPERINTENDENT'S REPORT.

To the Manchester School Board :

GENTLEMEN,— The following is presented as the Annual Report of the Superintendent of Public Instruction for the year 1892 :

ORGANIZATION AND ATTENDANCE.

The high school has this year been more liberally supplied with teachers than ever before, and much to its advantage. It has had seven teachers throughout the year, another also during the fall term. The average number of pupils belonging to the school has been nine greater than last year ; but the additional teacher has been needed on account of the increased number of classes rather than because of the slight increase in the attendance.

There have been twenty-four grammar-school divisions during the entire year, also two others for two terms each — one on the third floor of the Lincoln-street house and one on the third floor of the Ash-street house, where the second division of that school has been, continuously, for two years or more. In all, there have been two more grammar divisions than last year* — one organized at Hallsville, the other in the Varney house. Besides these grammar school changes, one of the divisions at the Webster-street house has been discontinued ; and the mixed grammar and middle school in the Lincoln-street house has become a school of middle grade. But the loss of these two divisions is offset by the organization of grammar divisions on third floors, one each at the Lincoln-street and Ash-street houses for two terms, and one for the year at Bakersville.

* Reckoning the two schools for partial time equivalent to one for the year.

There have been seventeen middle schools throughout the year — a gain of one over last year, which was organized at Hallsville. The apparent increase by the addition to the middle-school list of the heretofore mixed grammar and middle school in the Lincoln-street house is offset by the change of another school in that house from middle to primary grade.

There have been thirty-one primary schools during the entire year, also another for two terms and still two others for one term each. This makes an equivalent in all for the year of at least thirty-two primary schools. Last year there were twenty-nine; hence there has been a gain of three primary schools — one at the Lincoln-street house, as before mentioned, one at the Main-street house, one at the Lowell-street house for two terms, also one at Hallsville and one at Goffe's Falls for one term each.

These changes have resulted in transferring the Goffe's Falls school from the list of ungraded schools to the partially graded, and the Hallsville school from the list of partially graded to that of the graded schools.

Besides the special teacher of drawing, the additional teacher in the high school for one term, and three masters' assistants in the grammar schools during the fall term, there has been employed in the day schools for the year an equivalent of three teachers more than last year, also the same as two others for one term each. The equivalent of four new teachers has therefore been employed on account of the increase in the enrollment over last year, an increase of 227 pupils in the aggregate.

For five years prior to 1886, the period during which the French parochial schools were being organized, our city schools suffered an average annual decrease of 121 pupils. For the next five years, the city schools made an average annual gain of 88 pupils. Last year the gain was 257, and this year the gain is 227 over last year's total.

Great improvement has been made in the organization of the schools both at Hallsville and at Goffe's Falls. At Hallsville there are now four schools, and should be another, where last year there were but two schools — one in Foster's Hall. The number of different pupils in the new Hallsville

house has this year been 175; and there will doubtless be 40 pupils more before July, but the classification of those now in attendance is such that another teacher should be supplied the school as early as February.

The school at Goffe's Falls has been resolved into two schools, a mixed primary school and a mixed grammar and middle school, much to the advantage of the pupils in attendance.

The attendance upon respective schools may be seen by an inspection of the statistical tables to be found in the appendix to this report,— pages C, D, E, and F.

MORE SCHOOLROOMS NEEDED.

For fully three years the Ash-street schoolhouse has been insufficient for the proper accommodation of the school children living in its district; and those living in its northwestern quarter have, as largely as possible, been sent to the Webster-street house, where there have this fall been 23 of these, also to the Blodget-street house where there have been 4. Four (4) others have been to the Wilson Hill school, and still others have been to the Lincoln-street school, which has returned, in exchange, pupils of other grades for the Ash-street grades not so crowded as corresponding ones at the Lincoln-street house. In fact, the Ash-street, Lincoln-street, and Wilson Hill schoolhouses, combined, are utterly inadequate for the proper accommodation of the children who must attend in the immediate vicinity of these houses. In spite of all the changing about, to secure any accommodations in appropriate grades at these three houses this fall, the seven rooms at the Ash-street house, below the second division grade, have respectively enrolled 50, 51, 53, 52, 56, 53, and 61 pupils; at the Lincoln-street house, in the six rooms below the second division there have been enrolled in respective schools 52, 55, 54, 54, 47, and 51 pupils; and in the lowest grade at Wilson Hill, 53 pupils. In these fourteen rooms, where there are, regularly, only 661 pupils' sittings, there have this fall been enrolled 742 pupils. An excess of 81 pupils, enough for two schools, has therefore had to be accommodated by placing the necessary number of extra desks in the aisles of the fourteen rooms named.

What shall be done, at the opening of the spring term in April, with the 30 or more beginners almost certain then to knock at the doors of the lower primaries at Ash-street and Wilson Hill?

The best course of procedure, in my judgment, for the relief of the three schools in question, is first to secure a two-room building for primary schools on Pearl street east of Linden, but not far from the latter street. This would partially relieve the Ash-street school, and also the one at Wilson Hill. Between this latter school and the location which I have suggested for a new house on Pearl street, and from the houses now in easy sight and but a short distance to the north of this location, are pupils now attending the Ash-street and Wilson Hill schools sufficient to fill the house proposed, and that, too, with children who would not have to go so far to school as they now do. Relief at Wilson Hill will avoid in part, at least, the pressure upon the Lincoln-street school.

Second, for full relief of the Ash-street school, two more schoolrooms should be secured on the vacant city lot at the corner of Bridge and Union streets. In order to remove schools from, and keep them off, the third floor of the Ash-street house, and not allow the other floors of this house to be overcrowded, the two schoolhouses indicated should both be had at the earliest moment possible: and first, perhaps, the one which can be quickest obtained.

By the opening of the fall term, next year, more schoolrooms will also be desired at the Hallsville and Webster-street houses, either on account of the anticipated increase in the number of pupils or in order that the schools in these buildings may be properly classified. A new schoolhouse should also be provided in ward nine, early in the coming year.

BREVITY OF PUPILAGE.

Greatest hindrance to the attainment of the end for which our schools are maintained is brevity of pupilage. The course of study for the various grades below the high school covers a period of nine years; and the average term of pupilage for this period is only four years and a sixth, ascertained from a compilation of our school statistics for the last eight years, (1884 to 1891, inclu-

sive), the school reports for previous years not giving sufficient details for making desired calculations.

It has been the purpose of my investigations to ascertain the times and causes of the more marked instances of permanent decrease in the pupilage of the schools, with the view of diminishing the causes as much as possible. The revelations of the figures are so interesting and convincing that I present them for inspection. It may be well, however, for the benefit of the casual reader, first to explain why I have used the "Average number of pupils belonging" as the basis of my computations. This term indicates the average membership of a school, as may be seen from the following simple illustration: If it should be found that 40 pupils had been enrolled in a school for any year and that 5 of these had not attended the school during any part of the first half of the year, while another 5 had not attended during any part of the last half of the year, it would be evident that 35 would be the average membership, or average number of pupils belonging. Hence is seen the propriety of basing calculations upon the average number of pupils belonging, instead of upon the entire enrollment, in determining the duration of the average period of pupilage. I therefore present these averages, as follows:

Averages for Eight Years, 1884 to 1892.

Grades of Schools.	Annual Av'ge of the Av'ge No. of Pupils Belonging.	Per cent of Total No.	Years at End of Res- pective Grades.
Lower Primary	675	26	1 $\frac{1}{2}$
Higher Primary	467	18	3
Lower Middle	316	12	4
Higher Middle	249	9 $\frac{1}{2}$	5
Fourth Division, Grammar	225	8 $\frac{1}{2}$	6
Third Division	179	7	7
Second Division	160	6 $\frac{1}{2}$	8
First Division	143	5 $\frac{1}{2}$	9
Below Grammar Grades .	1,707	65 $\frac{1}{2}$	5
Grammar Grades	707	27 $\frac{1}{2}$	9
High School	181	7	13
Totals	2,595	100	

Average number graduated from grammar schools, 99.*

Average number admitted to high school, 90*

Average number entered the high school, 65.*

Average number graduated from the high school, 40.

The average term of pupilage is computed from data found in the foregoing table, as follows :

675	·	1½	=	1013	
467	×	3	=	1401	
316	×	4	=	1264	
249	×	5	=	1245	
225	×	6	=	1350	
179	×	7	=	1253	
160	×	8	=	1280	
143	×	9	=	1272	
2414	·			10.078	
	10078	÷	2414	=	4.17

The average term of pupilage in our grades below the high school is $4\frac{1}{6}$ years, nearly.

It may be observed that the two partially graded and the suburban schools are left out of the account, because I desire at this time to present the facts of attendance pertaining to the graded schools only.

From the foregoing table it is apparent that of those pupils who enter the lower primary schools, which include the *first year and a half* of school work, nearly one third of the entire number closes public school life in or with this grade; for it is seen that only about two thirds of the number appear in the next grade, the higher primary.

What thus early becomes of a third of all who begin the public school course? The greater part, doubtless, enter the parochial schools, from which they have previously been withheld, according to the testimony of parents, on account of the distance of such schools from the homes of this portion of youngest pupils. A similar depletion again occurs in or at the close of the

* The variations from year to year may be seen on page I of the appendix.

higher primary course, or *second year and a half* of school life. What becomes of nearly a third of this grade? The higher primary pupils who withdraw from school secure employment; and, for the most part, in the mills, the required literary qualification being by this time attained. This class of pupils, however, intermittently return to school, as required by law; but only the lesser portion of them get beyond the lower middle grade before they attain the age of sixteen, when they altogether cease attending the day schools. These pupils constitute the bulk of that fifth part of the lower middle schools which closes its school life by the end of the fourth year of the course. The pupils referred to as withdrawing from the higher primary schools and becoming employed in the mills, or elsewhere, are those who constitute the older and overgrown portion of the higher primary grades; and, for the most part, they are pupils from eight to fourteen years of age who enter our primaries from other places, with little or no schooling.

A further inspection of the statistics submitted will show that the annual depletion between the grades of school above the lower middle school is *comparatively* small, and not very marked till the interval between the first grammar division and the high school is reached. And between the grammar schools and the high school the loss is not so great as at first appears; for the first grammar divisions average a graduation of 99 out of 143, the 44 remaining in the second class* being required to return to the grammar school for another year.† Hence the number of

*There are graduated from the second class only those who do its work sufficiently well to insure proper progress in the high school, without reviewing the work of the second class.

†Nearly all so return, and the number of them who do not is offset by the number of graduates who enter advanced schools other than our high school; so my statistical comparisons are not vitiated by the failure of a few to return.

Those who return are not, however, kept reviewing the entire year, as may be seen from our course of study. It may also be said in passing, for the benefit of those not acquainted with our form of school organization, that there are two classes (doing different grades of work) in each of the schools above the primary; and in each of the primary schools there are three such classes. The classes all through the schools, below the high school, are therefore but five months apart in their work. Hence the ease with which individual promotions may be made at irregular times and the readiness with which the work of certain classes may be skipped, the result of which is that the school course is much shortened by a considerable number of the more capable pupils.

pupils completing their school life at the end of the grammar school course is represented by the difference between the 99 graduates and the 65 who enter the high school, or 34; and this loss is but little greater, proportionally, than the loss between the two grades of middle school, and much less than the loss between the primaries or between the primaries and the middle schools,—three stages early in the course at which so great losses are much the more regrettable. It is clearly in evidence that two thirds of our pupils leave school before sufficiently advanced to enter the lowest grammar grade; for the eight years' averages, as presented, show 675 pupils in the lower primary schools, and just one third of this number, or 225, to have continued long enough in school to enter the fourth or lowest division of the grammar schools. Thus it appears that two thirds of our pupils get all their schooling in the primary and middle grades only, and that one third of all who enter the lower primary schools do not attend the public schools longer than a year and a half; and by far the greater portion of such appear to be withdrawn for the purpose of enrolling them in denominational schools, because their parents prefer they shall attend such schools, as soon as large enough to travel the necessary distance, merely because they are schools of their own denomination. This is a right which we must all concede, however much the withdrawals on this account may be regretted. A third of those who remain to enter our higher primary grades leave school altogether by the end of the fourth or fifth year of the public school course; and, as I have previously indicated, these are the ones who largely represent our floating population, which comes and goes as the demand for labor is good or poor. The services of the children of this class of our people are largely demanded, often with apparent necessity.

It must therefore be evident that to suggest an effectual remedy for preventing the large withdrawals from the lower grade schools is not easy, since the causes seem to lie wholly outside of and beyond the authority or power of the board. If there are adequate ways of overcoming the losses, I must for the present, at least, leave the invention and announcement of them to those able to devise the remedies.

It does seem, however, that there must be some effectual means for much lessening the decrease of pupilage within the grammar schools, whose rate of decrease is more than one half the enormous rate of loss below the grammar schools. Below these schools the losses have been shown to be $66\frac{2}{3}$ per cent of the number entering the lower primaries, and within the grammar schools the loss is $36\frac{1}{2}$ per cent of the number entering the fourth or lowest grammar division; for the statistical table, showing averages for eight years, indicates 225 in the fourth division grade and only 143 in the first division.

These are unpleasant revelations, but it is better that they should be faced; and the actual conditions are indeed improving, as might be seen by a study of the school statistics of the more recent years. But the improvement has not been sufficiently rapid or sufficiently great, and yet the grammar divisions are excellent schools, among our best, and apparently as good as those elsewhere inspected. It is for this reason, and the further fact that they are composed of the better part of the material from the lower schools, that it seems it should not be difficult to hold their pupilage. I fear we have failed to realize the magnitude of the loss in the grammar schools, because the average rate of decrease from grade to grade has been so much smaller than that between the lower schools — $12\frac{1}{2}$ per cent, as against about 28 per cent. I surmise that the failure of one pupil in eight of every grammar division to pass on to the next higher division is largely the result of thoughtlessness on the part of both pupil and parent. It is so common for parents to extol the scholastic attainments of their children, and compare them with the meagerness of their own school results, that it can hardly be held as a matter of great surprise that when pupils who have been thus extolled take the notion that they wish to leave school and go to work, tempted perhaps by the glitter of earnings they see made by others of their own age, they are not greatly troubled to obtain the consent of parents not highly appreciative of a more extended education. Doubtless some grammar school pupils withdraw before completing the course on account of forced necessities, greatly to the regret of both parent and pupil; but this

would not be largely inferred by any one frequenting these grades of school. There may, however, be other reasons than the glitter of a youth's wages why some are ready to go out into life with less than a full grammar-school education; and it may be profitable to consider the more natural ones, in order the more easily to determine what remedies to apply.

Among these reasons may be named insufficiency of the course of study to meet the pupil's wants, neglect of the teacher to be properly interested in the pupil, dislike to a change of teachers, lack of comfortable environment on account of advancement in years or size, and loss of promotion.

If there is anything about the course of study that fails to meet the desires of the dissatisfied grammar school pupil, I think it may be safely assumed to be his feeling that it does not particularly prepare him for the duties of active life; and it is not surprising that so young persons should fail to see the bearing of the ordinary common-school course for this purpose. Hence, in part, the advocacy of the introduction of manual training as a portion of the school course, which was extendedly discussed in my annual report to the board last year.

Neglect of the teacher to become duly interested in the dissatisfied pupil is much more likely to occur in large schools where the over-weighted teacher has to husband her resources in order to continue in the service. The restless pupil is by such a teacher too frequently regarded as an annoyance; and the temptation, under the circumstances, is at least to refrain from making an effort to prevent any anticipated withdrawal. The remedy is in smaller schools where more individual work can be done; or, in case of necessity for large schools, the remedy is in the employment therefor of teachers of unusual powers and skill.

Many pupils are so sensitive that, if left to their own choice, they would quit school altogether rather than make the acquaintance of another teacher; and other pupils, left free to decide for themselves, would withdraw from school rather than make the acquaintance of the teacher in the next higher grade, simply because of prejudice against her, probably derived from acquaintances under her charge who do not enjoy themselves on account

of the treatment felt necessary by the teacher in consequence of their ill disposed inclinations ; or possibly, in exceptional cases, the prejudice may arise from the general dissatisfaction with which pupils regard a particular teacher. The remedy against so frequently requiring pupils to make a change of teachers may be found in a plan that I advocated several years ago,* as follows :

First. At the close of the spring term, advance to the room of next higher grade both classes in every school between the primary and the high, and from each primary school then advance the first and second classes to the next higher room.

Second. At the end of the first four weeks of the winter term (about the first of February), again make promotions, but without then changing the classes to other rooms.

Third. Annually, at the close of the spring term, change the position of all teachers between the lower primary grade and the highest-division grammar, so that the higher-primary and the middle school teachers shall go round with their pupils from school to school, starting with the higher primary and ending with the higher middle ; and so, likewise, have the grammar-school grade assistants perform the circuit of the three lower divisions of the grammar school with their pupils.

Under the present arrangement there is not, for several weeks after a pupil comes under the tuition of a new teacher, a realization of the outmost limit, and just that, of the knowledge from which the pupil is actually prepared to advance or an understanding of his abilities or power to accomplish results, to say nothing of that acquaintance with the disposition necessary to obtain the best results in the most agreeable manner.

On the other hand, the pupil not infrequently suffers in the mean time because of the feeling that he is not appreciated ; and, in consequence, his confidence, co-operation, and love are tardily won. The changes I have suggested would produce such conditions that pupils would, during their elementary course of instruction, have but four different teachers where they now have eight ; and I believe better results would thereby be attained with

* See Annual Report for 1885, page 35.

less friction, for reasons already suggested, and the additional one that the teacher would be led better to see the relation of the work as comprised in the several grades and to treat it more harmoniously as a whole, thus becoming broader herself and less likely to "get into ruts."

Whenever reviews are taken of work done in prior grades, there is a frequent feeling upon the part of the teacher that the work therein must have been faulty, because of the apparent poverty of results found at the later date ; but I think the difficulty most largely lies in the fact that teachers do not sufficiently familiarize themselves with the work done by their pupils when in lower classes and that they do not therefore keep them fresh in the essentials of that work,— as they might easily, and naturally would, do, if they were fully familiar with it. The plan above outlined for the rotation of teachers would dispose of this omission more effectually than any other which I can suggest. By the plan suggested no principle for securing best results through a division of labor would be violated, for the character of the work throughout each circuit named for the rotation of the teacher is not unlike that required in any grade of the same circuit. By this plan, the teacher of the lower primary school would continue therein as heretofore. This is deemed advisable, because of the special qualifications essential for the exceptional character of the work done during the first year and a half. During this period, too, there is less danger of a teacher's performing merely routine work. For the next three years and a half, pupils would enjoy the advantages derived from being under the same instructor, and, likewise, under but one other teacher during the three years covered by the course in the three lower divisions of the grammar grade.

Pupils unduly advanced in years and size, as compared with their classmates, and who on this account feel uncomfortable in our schools, are pupils who for the most part have not had the advantages in early youth which their new found classmates have enjoyed ; for such pupils chiefly come here from towns where their environment did not reveal to them the backwardness of their schooling. Pupils of this class would find their embarrass-

ment much relieved by opportunities afforded in a course of manual training, for in this at least they could show their classmates that pupils from the back towns would not be found inferior; and thereby they would soon command admiration from their mates instead of being regarded as the dullards of their class, and in consequence of this difference in their status they would not feel so uncomfortable in their environment as to meditate speedy withdrawal from school.

The number of pupils who withdraw from school in consequence of loss of promotion is believed to be extremely small, smaller than for any other reason; because I can recall no instance in which a parent has expressed dissatisfaction to me in consequence of such loss who has therefor withdrawn his child from school. On the other hand, parents in such instances have, upon investigation, almost uniformly become satisfied with the judgment of the teacher and that their children had been given due consideration and proper treatment.

In any effort that may be made greatly to reduce the number of withdrawals from school, the one agency to which we must look with greatest expectations of success is the personal interest and influence of teachers. Without this, all other means must fall short of great results; but I feel sure that with the facts and figures before them, which I have herewith presented, our teachers will promptly examine themselves for any signs of neglect, so earnestly desirous are they to exert proper influences and in every way to render best services. Small, I trust, will be the number of teachers obliged to reflect that schools theirs for any considerable time have been sufficiently full only for brief periods after semi-annual promotions.

SUPERVISORY PRINCIPALS.

Much help in checking withdrawals from school will, I am sure, be found to have been afforded by the appointment of the grammar masters as supervisory principals. They now come in much closer contact with all the pupils in their buildings than was ever before possible. This new relation has existed only since the opening of the fall term, but it is already apparent that

the establishment of it will work more for the ultimate good of the schools than any other single step taken by the board for many years. The masters are earnestly studying the relations of the work required in the various grades, by personally conducting class exercises therein, with the view of enabling themselves to determine how best to aid their assistants in operating the course of study as a harmonious whole, and to secure chief attention to emphasizing essentials.

As I have before intimated, the grade teacher is apt to do the work assigned to her own classes, year after year, without thought of its relation to the work done by her pupils while in lower classes sufficient to cause her to keep in due repair the various links of the educational chain ; nor is she apt to consider what her pupils will be expected to do in subsequent classes enough to cause her to put other links, in advance of her grade, even in a formative process. If, therefore, a bright pupil much leads the first class of such a teacher, she dares not recommend him for double promotion because she does not well enough understand the work beyond to feel sure he can do it properly. Hence bright pupils have doubtless failed to gain time which they might have better utilized. The teacher should be the best judge of her pupils' ability to do the work of a higher grade ; and another who does not come in quite frequent contact with her classes cannot safely select pupils for double promotion, or for advancement at irregular intervals. This is an important office which the grammar masters, with the opportunities now at their disposal, can safely perform ; and I have called their attention to those stages in the course of study at which pupils may with most ease be doubly promoted. We may therefore reasonably expect that in future many pupils will annually be doubly promoted, in place of the few heretofore so honored and encouraged.

By properly looking after the interests of every pupil, so far as to secure for him all the advancement to which his merits at any time entitle him, and by exerting that influence which present opportunities afford the grammar masters for keeping pupils in the schools as long as possible, in addition to the other work naturally theirs, the grammar masters will render services far

more valuable than the additional expense found necessary to constitute them supervisory principals.

DRAWING.

Another important act of the board, this year, has been the appointment of Miss C. J. Emmins, a graduate of the Massachusetts Normal Art School, as special instructor in drawing for full time. Miss Emmins became acquainted with the needs of our schools through her employment here last year, two days a week. She entered heartily upon the work in September, last, with the evident determination to do all possible for our schools; and, if she fails to accomplish much for the improvement of drawing here, it will be no fault of hers. She is highly competent, has excellent judgment about the application of her work, and is herself an enthusiastic and indefatigable worker. The city is fortunate in having secured her services.

EVENING SCHOOLS.

Our evening drawing school, taught during the fall and winter months, continues to prosper. It is highly appreciated by those in attendance; and its graduates have been able, in consequence of their course of instruction at this school, to take a higher stand, or become leaders, in their various vocations. It is a most helpful institution to the young mechanics of the city; and to this they themselves attest, by good attendance and unqualified words of praise.

The evening schools in which the common English branches are taught are largely but very irregularly attended. They, doubtless, do enough good to compensate for their cost; but nothing in comparison to what they might do, if regularity of attendance could be secured. In former reports I have discussed these schools at length, and suggested ways for improving them. I cannot now offer anything more helpful than again to commend a trial of the plan adopted by several cities in Massachusetts, and this winter by Nashua, for securing greater regularity of attendance upon evening schools. This plan, in brief, requires pupils upon registration to deposit one dollar as a guaranty

of good faith in their intention to attend regularly enough to make their course one of reasonable profit. The dollar is paid back to those who may have been in attendance seventy per cent of a term, and by the others the dollar is forfeited to the evening school fund. The plan, wherever tried, is said to have effected great improvements.

DAY SCHOOLS.

The high school has continued to do "sound, solid, and substantial" work throughout the year. It has been improved by the addition of one to its corps of teachers, there being seven during the winter and spring terms and eight during the fall term. In consequence of this increase in the number of teachers, it has been possible this fall to organize and prosecute the instruction given in this school, more fully than ever before, upon the departmental plan; and, also, to arrange the classes in smaller divisions, thus providing for more attention to the individual. These interests have been further promoted by having the drawing taught in this school by another than a member of its regular corps of teachers, that is, by the special teacher of drawing. This arrangement has had the effect of adding still another teacher to the corps of high school teachers for two fifths of the time. The school would be further and greatly helped by the employment of one who could well teach both elocution and English literature.

No students are admitted, except by examination, to Harvard, Yale, or Bowdoin; but all the other leading eastern colleges receive students from our high school upon the mere certificate of its teachers. This concession, however, was not accorded till after due investigation had been made. I may also add that the principal of the high school has several very complimentary letters from professors in the colleges which our pupils have entered by certificate, in regard to the character and thoroughness of their preparation for college work. Other graduates of the high school reflect equal credit upon the school, and upon themselves, in the various walks of life.

Surely no other city of the size and enterprise of ours, in most things, requires 245* pupils belonging to its most advanced school to seek accommodation at only 187 desks in its assembly room, or to be cramped as is our high school for sufficient recitation-room accommodations. Nor should Manchester longer allow its high school to suffer for lack of usual school conveniences. A school doing work so good and well that such colleges as Dartmouth, Amherst, Brown, Williams, Smith, Vassar, and Wellesley fling wide open their doors at sight of students bearing the certificate of our high school should have granted it facilities for doing its work with at least ordinary comfort.

The following changes in the high school corps of teachers have occurred within the year: Withdrawn, Miss Lucretia E. Manahan, and Mr. William T. Abbott, who for two years had rendered excellent service; entered, Miss Camille Benson and Mr. Willis B. Moore.

OBITUARY.

Miss Lucretia E. Manahan died January 29, 1892. She was an excellent woman and a person of unusual strength of character. She was an enthusiastic, energetic, devoted, and thorough teacher. She expected and required much of her pupils; but not more than she believed within the bounds of accomplishment by reasonable effort, nor more than appeared right for a proper utilization of the time at the disposal of her pupils. During more than a score of years of service in our schools, she taught in various grades, but always with distinguished success. Her pupils will ever remember her for those traits of character and training that she was largely instrumental in forming which have given them greatest powers for winning success in life.

Another of our important schools, the City Training School for Teachers, is also unduly cramped for want of room; but it is hoped that the recent application of the Board to the City Councils for an enlargement of the training-school building will meet with a favorable and prompt response.

*The number enrolled in the fall.

The training school has done its work not only more easily but better than last year. In 1891 the school was crippled for lack of a sufficient number of sub-teachers. After January there were but five sub-teachers, when there should have been twelve. Of these five, one graduated at the end of the spring term, and two of the others then withdrew. To the two remaining there were added, at the opening of the fall term, eleven others, all fresh graduates of the high school. Fortunately, fully half of these were better fitted, both by nature and education, to do preparatory work in the training school than the average of those who have entered the school for several years. Consequently, by the opening of the present year, the class large and strong, as a whole, has rendered the principal more assistance than recent former classes; and the school has therefore done good work throughout the year. It is too much to expect that the principal of this school can keep it in excellent condition without a fully trained and experienced assistant, unless aided by a sub-teachers' class of proper size and good material.

The training school, as I have several times before said, might be much improved and render a great deal more efficient service in the preparation of young ladies for teachers' positions, if it were accorded the opportunities granted similar schools in other cities.— better house accommodations, other and higher-grade classes, and one or more regular and right assistant teachers. These conditions might all be available without additional cost, if the first requisite, a suitable house, were at hand; for the other expenses would be offset by a discontinuance of teachers' salaries for other and higher grade classes that should be put into the training school when properly housed, enlarged, and improved.

The other day schools have industriously applied themselves, throughout the year, to a proper performance of the work assigned them. They have in general done that work well; and many of them have done in a very thorough and most excellent manner not only the specific assignments required by the course of study, but much more also in the way of general culture and ethical training, as designed by the spirit of the course. Each

school has attained results commensurate with the competency of its teacher. So must it ever be ; and I therefore repeat, what I have reiterated in former reports as most essential to the highest interests of the schools, that there is no service which the members of the school board can render that is more important or vital than that they see to it that every vacancy in the corps of teachers be filled by the best fitted available teacher, without regard to other considerations. It gives me pleasure to add, also, that I think this has uniformly been your earnest and praiseworthy endeavor.

It is proposed during the coming year, if approved by the board, so to modify the course of study that more attention shall be given to instruction in the *use* of the English language in all grades ; to extend the instruction in nature studies, in primary and middle grades, as a fit preparation for the introduction of a brief course in elementary science in the grammar grades. Civics has this year been restored to a place for study in the first division grammar grade, and with good results.

I recommend that one year's study of French be added to the college division of the high-school course. It is conceded that the work of the senior class is easier than that of any other in this school, and the opinion of the high-school master and myself is that French may well be taken as a fourth study during the senior year. The graduates of our High School who enter college are, in general, acknowledged to be well fitted in those studies which they have taken ; but in the study of French, which is required during the first year of college work, our students find themselves at great disadvantage, because their classmates from most other schools take at least a year of French in their preparatory course. The college professors upon learning this set the pace for their freshman class at such a rate that it requires extraordinary efforts upon the part of our students to maintain even a fair standing in this study ; and, thus crippled, it is much more difficult for them to attain a high average during their first year in college. Besides, those colleges which do not now require preparation in French, as a condition of entrance upon their courses, intimate that they will do so ere long. I

commend my recommendation in this matter to the early consideration of the board.

COLUMBUS DAY.

In common with the schools throughout the country, our city schools duly observed "Columbus Day" by carrying out the official program, prepared by the "Youth's Companion" for all schools, with such additions for each school as to the teacher seemed advisable. The exercises were highly interesting and impressive; in some schools quite elaborate, and in all heartily entered upon and well performed. The lessons of that day must be indelibly impressed upon many hearts, and it is fondly hoped they will be sufficiently effective forever to restrain every participant from any act of disloyalty to our common country.

CONCLUSION.

Once again I extend thanks to you, as members of the school board, for your cordial support, friendly advice, and right courses of procedure in the interests of the schools. I sincerely regret the withdrawal of each of the three members of the board whose term of service will expire by limitation at the close of the present year. I should do violence to my own feelings, and I believe also to yours, if I did not here remind the city government in particular and our citizens in general of the exceptionally valuable services of that withdrawing member of the board who for nine consecutive years has devoted much time and thought, with rare equipment for the purpose, to the improvement of our schoolhouses and other school property; and who, likewise, as member of the high-school sub-committee, has done as much as any member towards securing the present high standing of our city high school.

My thanks are also due and heartily extended to our corps of teachers, for generous co-operation and united efforts in seconding my labors for the prosperity and success of our schools.

Respectfully submitted.

WM. E. BUCK,
Superintendent.

APPENDIX.

- I. POPULATION, ETC.
- II. SCHOOLHOUSES.
- III. SCHOOLS.
- IV. TEACHERS.
- V. PUPILS.
- VI. TRUANCY.
- VII. FINANCE.
- VIII. SCHOOL YEAR, 1892.
- IX. HIGH SCHOOL GRADUATING CLASS.
- X. WINNERS OF CLARKE PRIZES.
- XI. ORGANIZATION OF COMMITTEES, 1893.
- XII. LIST OF TEACHERS, 1893.
- XIII. SCHOOL YEAR, 1893.

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
(Old house in Hallsville.)	
Number of schoolrooms used for day schools	89
(Three of the same, and six others, used for evening schools. Rooms unoccupied by city for day schools are two at Spring-street house, and three at the Lowell-street house.)	
Number of rooms used for High-school classes	*7
Number of rooms used for Grammar schools	*25
Number of rooms used for Middle schools	17
Number of rooms used for Primary schools	*32
Number of rooms used for Partially Graded schools	2
Number of rooms used for Ungraded schools	5

III. — Schools.

(All for both sexes.)	
Number of High Schools	1

(A)

*Another, also, for one term.

Number of combined Grammar and lower grade (Middle and Primary) schools	10
Number of combined Middle and Primary schools	2
Number of schools all Primary grade	4
Number of Ungraded schools	5

IV. — Teachers.

Male teachers in the High school	3
Female teachers in the High school	*4
Male teachers in the Grammar schools	6
Female teachers in the Grammar schools	*19
Female teachers in the Middle schools	17
Female teachers in the Primary schools	*29
Female teachers in the Partially Graded schools	2
Female teachers in the Ungraded schools	5
Special teachers	2
Average number of male teachers †	9
Average number of female teachers	77
Male teachers in the evening schools	7
Female teachers in the evening schools	9
Average number of male teachers in the evening schools	5
Average number of female teachers in the evening schools	5
Male teachers in the evening Drawing schools	3
Average number of male teachers in the evening Drawing schools	3

*Another, also, for one term. Three of the thirty-two primaries were in the Training School. They had no regular teachers, being taught by sub-teachers under the direction of the principal, who, for convenience, is reckoned among the middle-school teachers.

† Exclusive of special teachers.

(B)

V.—TABLE SHOWING THE ATTENDANCE UPON THE VARIOUS DAY SCHOOLS FOR THE YEAR 1892.

SCHOOLS.	Whole No. enrolled.		Whole No. belonging.*		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.	TEACHERS.
	Boys.	Girls.	Boys.	Girls.				
High School.....	108	129	226	217	96.0		Albert Somes, Master. G. J. Hopkins, Sub-master. W. T. Abbott, 2 terms, Willis E. Moore, 1 term, Mary Stanton, Nellie Pickering, Mary H. Cutler, Camille Benson, Mary A. Hawley, 1 term, } Assistants.	
GRAMMAR SCHOOLS.								
Franklin-street, First Division.....	42	21	26	24	92.3		C. W. Bickford, Master.	
“ “ Second “	47	11	17	22	95.6		Anna O. Heath, Jennie M. Chandler, 2 terms, } Assistants.	
“ “ Third “	58	26	22	29	89.6		Aurelia L. Grappner, 1 term, { Carrie E. Reid, 2 terms, } Carrie E. Hoyt, 1 term, }	
“ “ Fourth “	69	24	22	33	94.3			
Franklin-street totals	74	82	116	108	93.1			
Spring-street, Fourth Division.....	47	24	10	22	91.6		Lizzie P. Gove.	
Lincoln-street, First Division.....	78	16	21	36	92.3		Frank S. Sutcliffe, Master.	
“ “ Second “	81	18	20	34	91.9		Annie W. Patten, 2 terms, { Belle R. Daniels, 1 term, } Belle R. Daniels, 2 terms, { Mabel J. Brickett, 1 term, } Assistants.	
“ “ Third “	80	20	29	44	95.6			
“ “ Fourth “	89	26	24	47	95.7		Mary F. Barnes, 1 term, { Emma J. Ela, 2 terms. }	
“ “ Extra †	16	10	22	20	88.4			
Lincoln-street totals.....	96	107	191	179	93.7			
Ash-street, First Division.....	74	15	23	34	94.4		F. C. Baldwin, Master.	
“ “ Second “	70	19	20	30	93.7		Gertrude F. How, 2 terms, { Mary Hickey Dowd, 1 term, } Mary E. Buntton, 2 terms, { Jennie M. Chandler, 1 term, } Edith S. Dole, { Mabel J. Brickett, 2 terms, }	
“ “ Third “	91	17	26	40	90.0			
“ “ Fourth “	77	22	28	45	88.8			
“ “ Extra †	14	16	25	23	92.0			
Ash-street totals.....	87	113	178	163	91.6			

(C)

George Winch, Master.	96.9	31	32	14	12	56	56	12	32	31	96.9	{ George Winch, Master. Barbara B. Joy, 1 term, Mary H. Dowd, 1 term, Viola E. McClure, 1 term, Lillian Little, E. Maria Dickey, Ellen E. McKean, Assistants.
Barbara B. Joy, 1 term,	92.8	39	42	32	21	97	97	21	32	39	92.8	
Mary H. Dowd, 1 term,	91.6	34	37	31	20	81	81	20	31	34	91.6	
Viola E. McClure, 1 term,	96.0	29	26	24	26	59	59	26	24	29	96.0	
Lillian Little,	91.2	34	22	21	22	79	79	22	21	34	91.2	
E. Maria Dickey,	92.6	161	177	122	101	.....	.....	101	122	161	92.6
Ellen E. McKean,	92.7	30	32	21	15	.....	.....	15	21	30	92.7
Assistants.	95.0	19	20	17	9	47	47	9	17	19	95.0	
.....	92.3	24	26	15	16	44	44	16	15	24	92.3	
.....	93.6	73	78	53	40	.....	.....	40	53	73	93.6
E. S. Andrew, Master.	91.4	17	18	13	13	33	33	13	13	17	91.4	{ E. S. Andrew, Master. F. Maudie Joy, Alice P. Cummings, 2 terms, Cora F. Sanborn, 1 term, Alta C. Willard, Assistants.
F. Maudie Joy,	90.0	18	20	8	17	32	32	17	8	18	90.0	
Alice P. Cummings, 2 terms,	92.1	35	38	21	30	.....	.....	30	21	35	92.1
Cora F. Sanborn, 1 term,	85.3	29	34	16	19	58	58	19	16	29	85.3	
Alta C. Willard,	92.4	787	852	524	471	.....	.....	471	524	787	92.4
Lizzie A. Burns.	95.1	35	38	15	34	57	57	34	15	35	95.1	
Lella A. Brooks.	85.3	41	43	28	22	81	81	22	28	41	85.3	
Wm. H. Huse.	92.1	44	45	27	29	77	77	29	27	44	92.1	
.....	90.5	29	32	17	17	42	42	17	17	29	90.5	
.....	91.4	32	35	20	16	51	51	16	20	32	91.4	
Eva F. Tison.	89.7	35	39	28	20	70	70	20	28	35	89.7	{ Eva F. Tison. Emma J. Cooper. Kittie J. Ferren. Emma L. McLaren. Fannie D. Moniton. Annie M. Sleeper. Susie G. Woodman. C. E. Wing, Principal. C. Augusta Abbott. H. G. Flanders. Mary W. Mitchell. Millie S. Morse. Mary H. Dowd, 1 term. Mary E. Moulton, 2 terms. Nettie C. Woodman. Issa May Tuttle. Augusta S. Downs. Ella F. Barker.
Emma J. Cooper.	85.7	18	21	11	11	40	40	11	11	18	85.7	
Kittie J. Ferren.	89.7	32	35	23	17	57	57	17	23	32	89.7	
Emma L. McLaren.	90.6	29	32	14	14	40	40	14	14	29	90.6	
Fannie D. Moniton.	90.5	540	603	371	388	.....	.....	388	371	540	90.5
Annie M. Sleeper.	91.4	32	35	20	16	51	51	16	20	32	91.4	
Susie G. Woodman.	89.7	35	39	28	20	70	70	20	28	35	89.7	
C. E. Wing, Principal.	85.7	18	21	11	11	40	40	11	11	18	85.7	
C. Augusta Abbott.	90.6	29	32	14	14	40	40	14	14	29	90.6	
H. G. Flanders.	90.6	29	32	14	14	40	40	14	14	29	90.6	
Mary W. Mitchell.	90.5	29	32	14	14	40	40	14	14	29	90.5	
Millie S. Morse.	91.4	32	35	20	16	51	51	16	20	32	91.4	
Mary H. Dowd, 1 term.	89.7	35	39	28	20	70	70	20	28	35	89.7	
Mary E. Moulton, 2 terms.	85.7	18	21	11	11	40	40	11	11	18	85.7	
Nettie C. Woodman.	90.6	29	32	14	14	40	40	14	14	29	90.6	
Issa May Tuttle.	90.6	29	32	14	14	40	40	14	14	29	90.6	
Augusta S. Downs.	90.6	29	32	14	14	40	40	14	14	29	90.6	
Ella F. Barker.	90.6	29	32	14	14	40	40	14	14	29	90.6	
MIDDLE-SCHOOL TOTALS	388	371	603	388	371	.....	.....	388	371	603	90.5

* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.
 † Pupils were taken from overcrowded rooms in same building, and placed on the third floor — from February 1 to July 1. The grammar school totals are adjusted accordingly.

(D)

ATTENDANCE UPON THE VARIOUS DAY SCHOOLS. — *Continued.*

	Whole No. en-rolled.		Whole No. belonging.*		Average No. belonging.	Average daily attendance.	Per cent of daily attend-ance.	TEACHERS.
	Whole No. en-rolled.	Boys.	Girls.					
			Boys.	Girls.				
PRIMARY SCHOOLS.								
Amoskeag, Higher and Lower.....	85	40	31	46	84	8	Mary G. Tynan.	
Webster-street, Higher and Lower.....	55	26	23	33	30	90.9	Lettie M. Smith.	
Budget-street, Higher.....	61	19	21	31	28	90.3	Gertrude H. Brooks.	
" Lower.....	61	25	28	33	28	84.9	{ Georgiana Dow, 2 terms. Edith L. Hammond, 1 term.	
Ash-street, Higher.....	87	34	18	46	43	93.5	May F. Nutt.	
" Lower.....	96	27	33	45	41	91.1	Annie B. Goodwin.	
" Lower.....	103	44	46	45	33	85.1	Bertha A. Young.	
Lowell-street, Higher.....	92	48	37	32	29	90.6	Helen M. Morrill.	
" Lower.....	64	27	17	27	24	88.9	Genevieve B. Knight, 2 terms.	
Spring-street, Higher.....	75	28	28	36	33	91.6	Nellie I. Sanderson.	
" Lower.....	86	38	48	36	33	91.7	Lucia F. Esty.	
" Lower.....	69	44	23	48	38	90.5	Maudie L. Kent.	
Wilson Hill, Lower.....	81	92	92	37	33	89.2	Hulda C. Graupner.	
" Lower.....	88	45	35	39	34	87.5	Ella Hope.	
Lincoln-street, Higher.....	39	30	27	46	42	91.3	Cora B. Guilford.	
" Mixed.....	33	22	31	47	44	91.6	Theodora Richardson.	
Merrimaek-street, Higher.....	96	35	32	42	36	85.7	} C. E. Wing, Principal.	
" Lower.....	125	27	20	32	28	87.5		
" Lower.....	133	67	52	47	37	78.7		
Franklin-street, Higher.....	66	29	27	40	36	90.0	Nellie M. James.	
" Lower.....	77	23	41	36	30	78.9	Susie L. Dodge.	
Main-street, Higher.....	83	26	21	46	42	91.3	Mary E. Brophy.	
" Lower.....	111	27	25	45	41	91.1	Mary J. Walsh.	
" Lower.....	96	24	31	45	43	91.9	Mary A. Clement.	
" Lower.....	86	36	15	44	40	90.9	Gertrude A. Burns.	
" Lower.....	109	54	47	46	41	89.1	Kate T. Clarke.	
" Lower.....	114	51	61	44	39	88.6	Gertrude L. Southard.	

(E)

South Main-street, Higher.....	69	30	25	39	34	87.1
" Lower.....	73	33	36	40	34	85.0
Bakersville, Higher.....	67	21	16	36	33	91.7
" Lower.....	82	44	36	36	31	86.1
Hallsville, Higher†.....	.....	7	2	38	35	92.1
" Lower.....	104	50	39	46	41	89.1
Goffe's Falls, Mixed †.....	.....	4	7	31	29	93.5
PRIMARY-SCHOOL TOTALS †.....	1,101	1,004	1,301	1,158	.....	89.0

PARTIALLY GRADED SCHOOLS.

Amoskeag, Grammar and Middle.....	57	20	20	35	32	91.4
Goffe's Falls.....	67	33	33	39	32	82.0
PARTIALLY GRADED SCHOOL TOTALS.....	.....	53	53	74	64	86.5

UNGRADED SCHOOLS.

Stark District.....	17	9	7	12	10	83.3
Harvey District.....	22	8	10	15	13	82.5
Yonkersville.....	39	27	9	29	27	93.1
Webster's Mills.....	14	7	7	9	7	77.8
Mosquito Pond.....	12	9	3	9	8	88.9
UNGRADED-SCHOOL TOTALS.....	.....	60	36	74	65	87.8

Aggregate totals for 1892 †.....

Aggregate totals for 1891 †.....

Aggregate totals for 1891.....

Aggregate totals for 1892.....

* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.
 † The primary schools that were not in existence the entire year are three in number, and the primary-school totals are adjusted accordingly.
 ‡ Louis H. Bailey substituted two terms.

§ 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.

Della E. Haines.
 Georgia M. Cheney.
 Izetta S. Locke.
 Edith M. Stebbins.
 Olive A. Rowe, 1 term.
 { Olive A. Rowe, 2 terms.
 { E. Alfreda Hall, 1 term.
 Mertie C. Hawks, 1 term.

Nettie B. Fogg.
 Georgia Kendrick.

Inez M. Warren.
 Emma J. Ela. ‡
 Mary A. Seavey.
 Mary G. Worthen.
 Nellie M. Atwood.

DAY SCHOOLS.

Summary of the attendance upon the several grades of public day schools for the year 1892 :

GRADES.	Whole number different pupils.		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.
	Boys.	Girls.			
High	108	129	226	217	96.0
Grammar	471	524	852	787	92.1
Middle	388	371	603	546	90.5
Primary	1,101	1,004	1,301	1,158	89.0
Partially graded	53	53	74	64	86.5
Ungraded	60	36	74	65	87.8
Totals, 1892	2,181	2,117	3,130	2,837	90.6
Totals, 1891	2,003	2,068	2,940	2,689	91.5

EVENING SCHOOLS.

Summary of the attendance upon the several grades of public evening schools for the year 1892 :

SCHOOLS.	Whole number different pupils.		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.
	Boys.	Girls.			
Lowell street	334	.....	72	62	74.0
Spring street .....	.....	137	50	39	78.0
School street	117	57	34	25	73.0
Drawing schools {	Mechanical	79	36	30	83.3
	Architectnral	44	21	18	85.7
Totals, 1892	574	194	213	174	81.8
Totals, 1891	455	320	219	166	75.8

Evening School Teachers.

Charles E. Cochran, principal of Lowell-street school, for boys.

Assistants — David Eckvall, Arthur W. Morgan, John J. Shea, Fannie L. Sanborn, Gertrude A. Burns, and Honora J. Crough.

William J. Moor (Winter), and Louis H. Bailey (Fall), principals of Spring-street school, for girls.

Assistants — Lizzie D. Hartford, Maggie Linen, Alice H. Boyd, and Annie Brigham.

L. H. Carpenter, principal of School-street school, for both sexes.

Assistants — Mary A. Clement and Attie S. Marshall.

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 number teachers employed.
		Boys.	Girls.									
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	90.7	141	121	114	83	33	75
1891.	4,071	2,003	2,068	2,940	2,689	91.5	166	120	101	69	26	82
1892.	4,298	2,181	2,117	3,130	2,837	90.6	174	116	103	67	42	87‡

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 94. 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 six have so entered.

‡ There being three grammar master's assistants, each for one term, or an average of one for the year; hence 86 others.

Teachers.	Date of effect of resignation.	Teachers.	Date of begin- ning service.
Wm. B. Abbott.	June 24.	Willis B. Moore.	Sept. 12.
Georgiana Dow.	June 24.	Cora F. Sanborn.	Sept. 12.
Gertrude F. How.	June 24.	Viola E. McClure.	Sept. 12.
Alice P. Cummings.	June 24.	Amelia L. Graupner.	Sept. 12.
		Carrie E. Hoit.	Sept. 12.
		Edith L. Hammond.	Sept. 12.
		E. Alfreda Hall.	Sept. 12.
		Mertie C. Hawks.	Sept. 26.
		Lucy M. Choate.	Oct. 3.

TRAINING SCHOOL.

Sub-teachers.	Graduated.	Sub-teachers.	Entered.
Mary W. Allen.	June 24, '92.	Bertha L. Kemp.	Sept. 12.
Issa M. Tuttle.	June 24, '92.	Nellie C. Parker.	Sept. 12.
Mabel R. Brown.	Jan. 27, '93.	Nellie M. Smith.	Sept. 12.
Lucy M. Choate.	Jan. 27, '93.	Bessie E. Dodge.	Oct. —.
Mary J. Corcoran.	Jan. 27, '93.	Josie L. Riddle.	Jan. 27, '93.
Annie R. Corson.	Jan. 27, '93.	M. Min. Sturtev'nt.	Jan. 27, '93.
Alfreda Hall.	Jan. 27, '93.	Perley E. Higgins.	Withdrew.
Mertie C. Hawks.	Jan. 27, '93.		
Carrie E. Head.	Jan. 27, '93.		
Mary S. Richardson.	Jan. 27, '93.		

(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.....	9	9	1	3	6	3	1	4	..	..
February.....	13	14	4	7	7	3	..	4	1	..
March.....	16	10	..	..	4	7	2	6	3	..
April.....	15	14	..	1	15	10	1	1	1	..
May.....	21	35	7	1	15	20	3	10	..	..
June.....	14	26	1	1	11	16	3	6	1	1
September.....	11	36	2	3	6	24	4	5	3	..
October.....	8	55	5	7	3	33	2	3	9	..
November.....	18	16	4	2	9	10	2	5	1	1
December.....	12	13	1	1	6	12	2	..	..	1
Totals.....	137	228	25	28	58	133	20	44	19	3

DATE.	Truants not enrolled found on streets.	No. truants caused to attend		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.....	13	5	8	81	91	1	..	58
February.....	9	3	6	64	62	1	..	41
March.....	12	2	10	96	47	..	..	50
April.....	10	5	5	53	47	1	..	73
May.....	11	3	8	97	80	5	1	45
June.....	..	..	..	64	44	..	..	52
September.....	8	2	6	75	111	3	1	38
October.....	..	..	..	65	71	6	..	11
November.....	14	8	6	64	45	2	..	13
December.....	3	3	..	42	33	..	..	64
Totals.....	80	31	49	701	621	19	2	445

VII.—Finance.—1892.

ITEMS OF ACCOUNT.	Resources from appropriations and transfers.	Expenditures, 1892.
Salaries of teachers	£56,000.00	\$54,660.36
Books and stationery	300.00	299.73
Free text-books and supplies	3,500 00	3,459.31
Furniture and supplies	800.00	634 57
Repairs	5,000.00	4,852.26
Care of rooms	4,050.77	4,050 77
Fuel	4,500.00	4,297.40
Printing and advertising	400.00	333.75
Contingent expenses	1,227 99	1,227.99
Evening common schools	1,200.00	973.93
Evening drawing schools	600.00	405.15
Totals	\$77,578.76	\$75,325.22

COST OF CITY SCHOOLS.

Expenditures, as above specified \$75,325.22

Salaries.

Members of the school board	180.00
Clerk of the board	100.00
Superintendent of schools	2,000.00
Truant officer	750.00
Total	\$78,355.22

Receipts on Account of Schools.

Literary fund	\$6,010.88
Non-resident tuition	* 414.22
Sale of text-books	† 162.54
Total	\$6,587.64

* Including \$32.77 received from Londonderry.

† Including \$11.95 refunded the city on account of overdraft.

(L)

Net amount raised by taxation \$71,767.58

The city valuation for 1892 is \$25,932,044; and hence the rate of school tax for the year is $\$71,767.58 \div \$25,932,044$, or .00276 +.

VIII.—School Year.

Winter term of twelve weeks opened January 4; closed March 25. Vacation of two weeks.

Spring term of eleven weeks opened April 11; closed June 24. Vacation of eleven weeks.

Fall term of fourteen weeks opened September 12; closed December 16. 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, 173.

(Being closed several holidays, days of "Teachers' Institutes," and half days on account of bad weather or insufficient heat.)

IX.—High School Graduation.

PROGRAM.

Salutatory, with Essay	Blanche Laura Bachelder
Chorus, "On Life's Journey"	Veazie
History	Morton Julius Fitch
Violin Duet	Krommer, Opus 33
Annie Florence Abbott.	Barton P. Bachelder.
Class Oration, "For Commerce or Life"	George Kendrick Buck
Double Quartet.	
Minnie Willemine Orrill.	Louis Sherburne Cox.
Florence Barnard.	Orien Brown Dodge.
Annie Florence Abbott.	Charlie Brooks Bodwell.
Julia Frances Stearns.	George Henry Abbott.

(M)

Class Poem, "What I have Wrought, I am."

Lillian Angela McAllester.

Galop, Banjo and Guitar Quartet.

James Dunnington.

Louis Sherburne Cox.

French Campbell.

Morton Julius Fitch.

Prophecies Mabelle Ethelyn Boshier

Chorus, "Song of the Triton" Molloy

Valedictory, with Essay Florence Barnard

Presentation of Diplomas Rev. W. C. McAllester

Singing of the Ode.

GRADUATES.

FOUR YEARS' CLASSICAL COURSE.

Annie Florence Abbott.

William Rodney Eaton.

Barton P. Bachelder.

Elsie Daniels Fairbanks.

Blanche Laura Bachelder.

Morton Julius Fitch.

Florence Barnard.

Ethelyn Louise Marshall.

Charlie Brooks Bodwell.

Lillian Angela McAllester.

Mabelle Ethelyn Boshier.

Minnie Willemine Orrill.

French Campbell.

Joseph Louis Poor.

Annie Wainwright Colby.

Nellie May Smith.

Walter Edward Currier.

Mabel Marion Stevens.

Orien Brown Dodge.

Leon Luther Sweet.

FOUR YEARS COLLEGE COURSE.

George Kendrick Buck.

Henry Hadley Stark.

Louis Sherburne Cox.

William Williamson.

FOUR YEARS ENGLISH COURSE.

Leonard D. Dickinson.

Stephen James Putnam.

Bessie Eleanor Dodge.

Nellie Frances Smith.

Albert Clark Frost.

Julia Frances Stearns.

Ethel Lunette George.

Leon Clark Wheeler.

Bertha Leona Kemp.

(N)

THREE YEARS SCIENTIFIC COURSE.

Charles M. Baker. James Dunnington.
 Charles B. Manning.

THREE YEARS ENGLISH COURSE.

George Henry Abbott. Rowena Louise Walker.
 Herman Hunter Dinsmore. John Mason Boutwell.
 Fannie Esther Ramsey. M. Lizzie Dealey.

SPECIAL STUDENTS.

Edward Winslow Cross, in College Course.
 Flora Belle Patch, in English Course.

HONOR SCHOLARS.

Determined by rank in scholarship and department.

Classical Course	. . . . .	Florence Barnard
College Course	. . . . .	Henry Hadley Stark
English Course	. . . . .	Leonard D. Dickinson
Scientific Course	. . . . .	James Dunnington

X. Winners of Clarke Prizes.

FOR EXCELLENCE IN ELOCUTION AT CONTEST, JANUARY 26, 1892.

Effie S. Wilbur, \$16.	Alice E. Balch, \$6.
Grettie E. Canney, \$12.	J. Etta Doherty, \$4.
Anson G. Osgood, \$10.	Alice G. Colby, \$2.*
Sadie Stewart, \$8.	Florence Caldwell, \$2.*

XI. Organization, 1893.

SCHOOL COMMITTEE.

EDGAR J. KNOWLTON, MAYOR, *ex officio*, *Chairman*.
 FRED T. DUNLAP,

President of the Common Council, *ex officio*.

* A school prize, awarded the better of the two from each school not winning one of the six prizes offered those most meritorious.

- Ward 1. Charles D. Sumner.
Walter H. Lewis.
- Ward 2. George H. Stearns.
Charles S. Murkland.
- 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. Luther C. Baldwin.
Josiah G. Dearborn.
- Ward 9. Edward J. Doherty.
Scott E. Sanborn.

VICE-CHAIRMAN OF THE BOARD.

MARSHALL P. HALL.

CLERK OF THE BOARD.

EDWARD B. WOODBURY.

SUPERINTENDENT OF PUBLIC INSTRUCTION.

WILLIAM E. BUCK.

SUPERINTENDENT'S CLERK.

FANNIE L. SANBORN.

TRUANT OFFICER.

SAMUEL BROOKS.

(P)

STANDING COMMITTEES.

Finance. The Mayor, Messrs. Dunlap, Hall, Woodbury, F. T. E. Richardson.

Salaries. Messrs. Woodbury, Slattery, Sumner.

Repairs, Furniture, and Supplies. Messrs. S. B. Stearns, Sumner, Baldwin.

Text-Books, Apparatus, and Studies. Messrs. Hall, Baldwin, G. H. Stearns.

Drawing. Messrs. Baldwin, Hall, J. G. Dearborn.

Music. Messrs. F. T. E. Richardson, Phelps, Lewis.

Fuel and Heating. Mr. G. H. Stearns, the Mayor, Messrs. Dunlap, G. W. Dearborn, Phelps.

Examination of Teachers. Messrs. Towne, Murkland, J. G. Dearborn.

Attendance. Messrs. E. L. Richardson, Doherty, Sughrue.

Health. Messrs. Towne, Slattery, Sanborn.

SUB-COMMITTEES.

High School. Messrs. Murkland, Hall, S. B. Stearns, Towne, Phelps, Slattery, J. G. Dearborn.

Franklin-street School. Messrs. Woodbury, Sumner, Baldwin.

Spring-street and Lowell-street Schools. Messrs. Towne, Slattery, Sughrue.

Lincoln-street School. Messrs. S. B. Stearns, F. T. E. Richardson, E. L. Richardson.

Ash-street School. * Messrs. Phelps, Towne, Hall.

Webster-street and Blodget-street Schools. Messrs. G. H. Stearns, Murkland, Slattery.

Bakersville School. Messrs. Sumner, F. T. E. Richardson, Lewis.

Varney School. Messrs. Baldwin, J. G. Dearborn, Murkland.

Training School. Messrs. Hall, Phelps, G. H. Stearns.

Wilson Hill School. Messrs. Lewis, Sanborn, E. L. Richardson.

Main-street and South Main-street Schools. Messrs. J. G. Dearborn, Baldwin, Sanborn.

* Also of any others that may be organized on Bridge street.

Amoskeag and Stark Schools. Messrs. Slattery, G. W. Dearborn, Doherty.

Hallsville and Youngsville Schools. Messrs. G. W. Dearborn, E. L. Richardson, Sughrue.

Goffe's Falls and Harvey Schools. Messrs. Sughrue, Lewis, Doherty.

Webster's Mills and Mosquito Pond Schools. Messrs. E. L. Richardson, Sughrue, Woodbury.

Evening Schools. Messrs. F. T. E. Richardson, G. H. Stearns, Sumner.

XII. — List of Teachers.

HIGH SCHOOL. — BEECH STREET.

Master. Albert Somes.

Sub-Master. George I. Hopkins.

Assistants. Willis B. Moore.

Mary Stanton.

Nellie Pickering.

Mary H. Cutler.

Camille Benson.

Mary A. Hawley.

FRANKLIN-STREET SCHOOL.

Second Floor. — Grammar Grades.

Master. Charles W. Bickford.

Master's Assistant. Amelia L. Graupner.

Assistants. Annie O. Heath. (Leave of absence granted.)

Carrie E. Hoit in charge.

L. Mary Choate.

Carrie E. Head.

First Floor. — Lower Grades.

Higher Middle. C. Augusta Abbott.

Lower Middle. Hattie G. Flanders.

Higher Primary. Nellie M. James.

Lower Primary. Susie L. Dodge.

SPRING-STREET SCHOOL.

Second Floor. — Mixed Grades.

Principal. Lizzie P. Gove. (Grammar classes.)
 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.

Master. Frank S. Sutcliffe.
 Master's Assistant. Annie W. Patten.
 Assistants. Isabelle R. Daniels.
 Mabel J. Brickett.
 Mary F. Barnes.
 Mary J. Corcoran.*
 Josephine A. Mitchell.*

First Floor. — Lower Grades.

Higher Middle. Annie M. Sleeper.
 Lower Middle. Susie G. Woodman.
 Higher Primary. Cora B. Gilford.
 Mixed Primary. Theodora Richardson.

ASH-STREET SCHOOL.

Second Floor. — Grammar Grades.

Master. Fred C. Baldwin.
 Master's Assistant. Mary E. Bunton.
 Assistants. Mary Hickey Dowd.*

* Third floor.

Jennie M. Chandler.
 Edith S. Dole.
 Mabel R. Brown.*

First Floor.— Lower Grades.

Higher Middle. Emma J. Cooper.
 Lower Middle. Kittie J. Ferren.
 Higher Primary. May F. Nutt.
 Lower Primary. Annie B. Goodwin.
 Lower Primary. Bertha A. Young.

WEBSTER-STREET SCHOOL.

Second Floor.— Grammar Grades.

Master. B. S. Andrew.
 Master's Assistant. Cora F. Sanborn.
 Assistants. Rose Dearborn.
 Alta C. Willand.

First Floor.— Lower Grades.

Mixed Middle. Eva F. Tuson.
 Higher Primary. Lettie M. Smith.
 Lower Primary. Edith L. Hammond.

BAKERSVILLE SCHOOL.

Second Floor.— Mixed Grades.

Principal. Lizzie A. Burns.
 Assistant.* Lelia A. Brooks.
 Higher Middle.* Issa May Tuttle.
 Lower Middle. Augusta S. Downs.

First Floor.— Lower Grades.

Higher Primary. S. Izetta Locke.
 Lower Primary. Annie Brigham.

* Third floor.

VARNEY SCHOOL.

Second Floor.— Grammar Grades.

Master. George Winch.
 Master's Assistant. Barbara B. Joy.
 Assistant. Viola E. McClure.

First Floor.— Mixed Grades.

Assistants. Lillian Little.
 E. Maria Dickey.
 Ellen E. McKean.
 Higher Middle. Mary E. Moulton.
 Lower Middle. Nettie C. Woodman.

HALLSVILLE SCHOOL.

Master. William H. Huse.
 Mixed Middle. Ella F. Barker.
 Assistant. Mary G. Worthen (Lower classes from each of above rooms).
 Mixed Primary. Olive A. Rowe.
 Lower Primary. E. Alfreda Hall.

TRAINING SCHOOL.

(Merrimack Street, corner 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 the 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.
 Mixed Primary. Mary J. Walsh.

(U)

First Floor.— Primary Grades.

- Mixed Primary. Mary A. Clement.
 Lower Primary. Gertrude A. Burns.
 Lower Primary. Kate T. Clarke.
 Lower Primary. Gertrude L. Southard.

BLODGET-STREET SCHOOL.

Second Floor.

- Higher Primary. Gertrude H. Brooks.

First Floor.

- Lower Primary. Edith M. Stebbins.

LOWELL-STREET SCHOOL.

Second Floor.

- Lower Primary. Mary S. Richardson.

First Floor.

- Higher Primary. Helen M. Morrill.

WILSON HILL SCHOOL.

- Lower Primary. Hulda C. Graupner.
 Lower Primary. Ella Hope.

SOUTH MAIN-STREET SCHOOL.

- Higher Primary. Delle E. Haines.
 Lower Primary. Georgia M. Cheney.

PARTIALLY GRADED SCHOOLS.

- Amoskeag. Nettie B. Fogg (Grammar and middle-school classes).
 Mixed Primary. Mary G. Tynan.

Goffe's Falls.* Georgie Kendrick (Grammar and middle-school classes).

Mixed Primary. Mertie C. Hawks.

UNGRADED SCHOOLS.*

No. 1. Stark. Inez M. Warren.

2. Harvey. Emma J. Ela.

3. Youngsville. Mary A. Seavey.

4. Webster's Mills. Josephine L. Riddle.

5. Mosquito Pond. Nellie M. Atwood.

SPECIAL TEACHERS.

Music. J. J. Kimball.

Drawing. C. J. Emmins.

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.

JANITORS.

High School and Ash-street School.

John S. Avery, 404 Merrimack. \$600.

* Suburban.

(W)

Lincoln-street and Wilson Hill Schools.

William Stevens, 418 Central. \$450.

Webster-street and Blodget-street Schools.

Michael Finley, Pearl, near Chestnut. \$425.

Spring-street and Lowell-street Schools.

William H. Morrill, 45 Pennacook. \$350.

Training School and Franklin-street School.

Edward P. Cogswell, 409 Cedar. \$475.

Varney and South Main-street Schools.

H. G. Batchelder, 123 Carroll. \$450.

Main-street School.

J. C. Blaine, 58 School. \$350.

Bakersville School.

H. C. Dickey, Bakersville. \$300.

Hallsville School.

William H. Newry, corner Beacon and Laurel. \$300.

Amoskeag School.

James E. Bailey. \$170.

XIII.—School Year, 1893.

Winter term of twelve weeks opens January 2, closes March 24.
Vacation of two weeks.

Spring term of eleven weeks opens April 10, closes June 23.
Vacation of eleven weeks.

Fall term of fourteen weeks opens September 11, closes December 15.

MANCHESTER HIGH SCHOOL COURSE OF STUDY, MODIFIED, 1888.

ENGLISH DIVISION. <i>3 or 7 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.	Algebra. Latin. Physics.	Same as the Classical Division.	Same as the English Division.
English Grammar and Composition. Physics.	Algebra. Latin. Physics.	Same as the Classical Division.	Same as the English Division.
Algebra. Rhetoric. Physics.	Algebra. Latin. Physics.	Same as the Classical Division.	Same as the English Division.
Geometry. ² Studies in English. ¹ Physiology.	Geometry. Latin. Physiology.	Geometry. Latin. Greek.	Geometry. Studies in English. ¹ French.
Geometry. General History. Civil Government.	Geometry. Latin. Civil Government.	Geometry. Latin. Greek.	Geometry. General History. French.
Geometry. General History. Botany. ¹	Geometry. Latin. Botany. ¹	Geometry. Latin. Greek.	Geometry. General History. French.
English History. Arithmetic. Chemistry.	English History. Arithmetic. Chemistry.	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.
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. (End of Scientific course. See last page.)
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. Trigonometry, } French may take or Arith. Rev. } the place of Mineralogy. } either. and Geology. }	Arithmetic rev. } Latin. Greek.	Rhetoric. } French. Latin and Greek. **
Algebra rev. } Mental Science, } Astronomy. }	English Authors. Algebra rev. } French may take Astronomy. } the place of either.	Algebra rev. Latin. Greek.	English Authors French. Latin and Greek.
Surveying, } or Geometry rev. } Mental Science } Physical Geog. } of one of them.	English Authors. Surveying, } French may or Geometry rev. } take place Physical Geog. } of either.	Geometry rev. Latin. Greek. (FIFTH YEAR, NEXT COL.)	English Authors. French. Latin and Greek.

FIFTH YEAR.
COLLEGE COURSE.

FOURTH YEAR.—FALL TERM.

WINTER TERM.

SPRING TERM.

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, certifying the studies completed, with designation of results attained therein. This arrangement affords the advantages of the latter to called a "liberal course." In those who cannot attend the school more than two years.

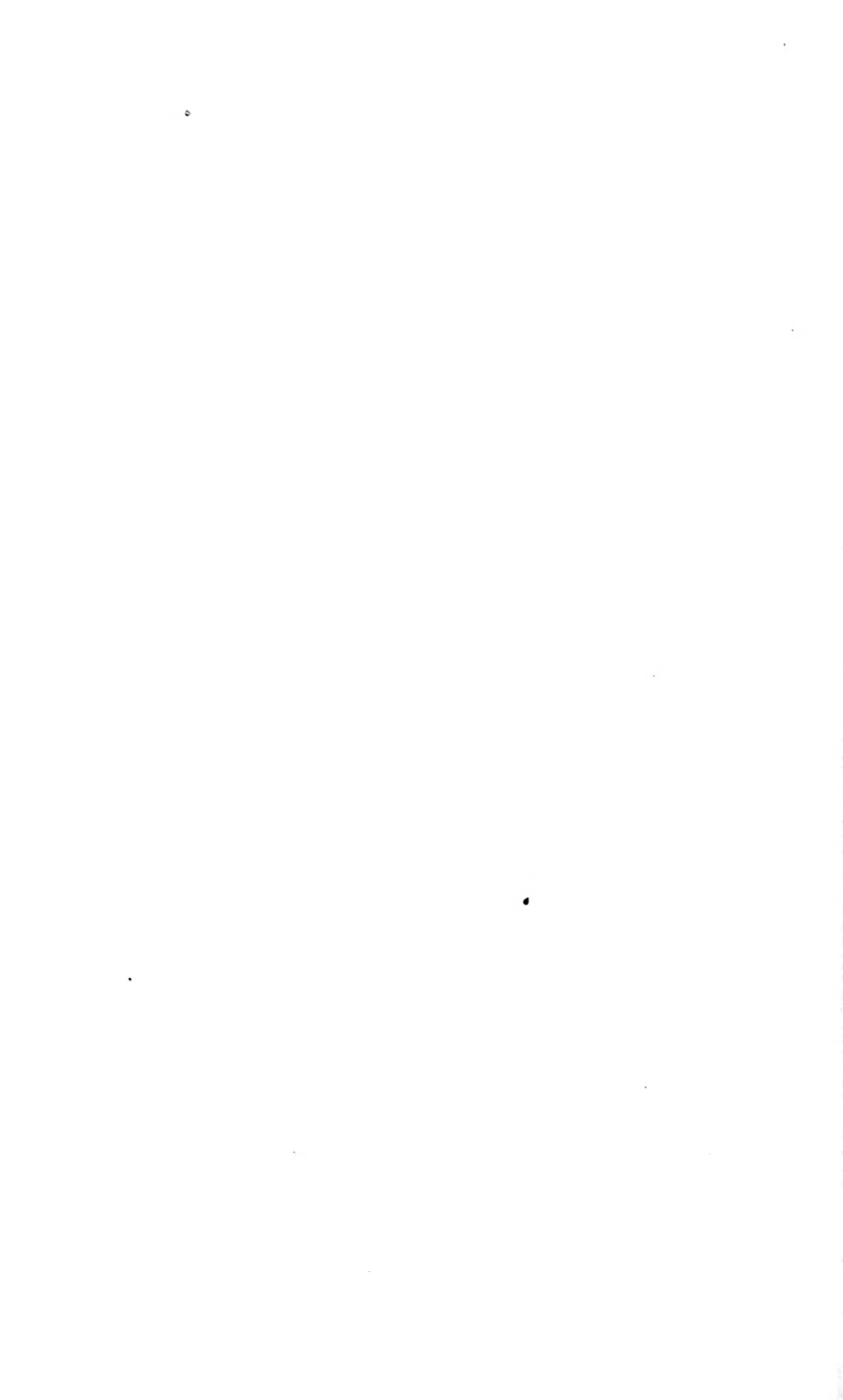
† Students in English, once a week next three terms, to ensure the study of grammar and rhetoric with the work to be done in English authors.

‡ Trigonometry may be taken by those intending to leave school before the close of the fourth year.

§ Examinations in mathematics for admission to Harvard College can be taken a year before entrance; and pupils desiring to enter other colleges may take the English studies of the fifth year as extras.

** Latin and Greek alternate weekly throughout the fifth year.

(Y)



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 1892 :

At the beginning of the year the board consisted of Dr. George C. Hoitt, chairman, Joseph B. Sawyer, clerk, and Dr. Neil F. Starr. The term of Mr. Sawyer expired on the first Monday in February, and he was reappointed by the Mayor. On the same day the board was organized by the re-election of the officers of the preceding year, and it has since remained unchanged.

EXPENDITURES.

Clerk hire	\$25.00
Pay of inspectors	1,422.50
Salaries of the members of the board	600.00
Printing, stationery, etc.	113.18
Legal expenses	67.55
Street-car fares	52.59
Postage stamps and envelopes	30.43
Furniture	44.90
Carriage hire	27.25
Board of persons committed to city hospital	26.00
Sundries	14.61
	<hr/>
	\$2,424.01

INSPECTORS AND THEIR WORK.

Mr. Herbert S. Clough and Mr. John Looney have been in the employ of the board as inspectors from the first of March to the end of the year, the former at three dollars per day and the

latter at two dollars. They have been faithful and efficient and have discharged their duties to the satisfaction of the board. Their report, submitted herewith, gives the details of their work. In prosecuting that work it has been the rule that on finding any nuisance or unsanitary thing they are to call the attention of the owner or person in charge of the premises to it in a personal interview, or by a courteous note sent through the post-office. In the majority of cases this secures the abatement of the nuisance. In the cases where it does not suffice, the board visits the premises, makes an examination of the thing complained of, and, if necessary, issues a notice to the responsible person requiring the removal or abatement of the nuisance. These notices are served by the inspector, and the proper return is made. The inspectors' report shows that two hundred and fifty-nine such notices have been issued and served during the year. Such a document, indicating as it does the probability of further legal proceedings, is usually heeded by the delinquent. In only four instances has it been found necessary to enter complaints in police court, and in all these the requirements of the notice were complied with immediately thereafter.

A HOUSE-TO-HOUSE INSPECTION.

Under an order of the board, a house-to-house inspection of the compactly built portions of the city was begun in August last. This work was commenced at Auburn street and had been extended northerly to Bridge street when it was stopped by the advent of winter. It is the intention of the board to resume it again with the opening of spring, and to continue it until all parts of the city are put in a good sanitary condition. Some of the results of this inspection are given in the inspectors' report.

VAULT CLEANING.

The board licensed three parties to clean privy vaults the past season, viz.: J. T. Gott, Timothy McKenna, and Thomas Welch. The last-named sold his teams and apparatus to Gott after continuing in business but a short time. The number of

vaults cleaned by each is given in the report of the inspectors. It was found necessary to suspend McKenna's license twice, once for dumping too near dwelling houses, and once on account of the bad condition of his apparatus.

Several complaints have come to the office that the night-soil had been dumped in such places, or left in such a condition, as to be a nuisance. A few of these complaints were perhaps needless, but all were attended to by the inspectors, and the nuisances were abated.

Notwithstanding these occasional complaints it was the conviction of the board that the excavator service, under the vigilant care of the inspectors, has been a success. It is true that it has not been strictly odorless, but, considering the vile nature of the stuff to be dealt with, it is not probable that any plan strictly without offensive smell, and yet economically workable, will soon be devised. As long as vaults exist and have to be emptied, they will cause constant, or at least occasional, annoyance.

THE ABOLISHMENT OF VAULTS.

This work, entered upon two years since, has been pursued as fast as possible, but considering the large number of vaults built appurtenant to new houses on unsewered streets, it is doubtful whether the total number of these structures has been at all diminished. The unusual activity in all building trades has sometimes made it impossible to secure the services of joiners and plumbers to do the work promptly when changes have been ordered.

The board has been reasonable, however, and in all cases where the owner or agent showed an honest endeavor to comply with their requirements no prosecution has been commenced.

The board has sought to do the greatest good to the greatest number by confining the work to the most crowded parts of the city. In a few instances where the conditions were especially bad, it was necessary to order changes in property in other locations.

PLUMBING AND DRAINAGE.

Attention is invited to that part of the inspectors' report which touches upon this subject. The board has long been aware of the existence of the evils complained of, but lack of means for the employment of a suitable man for an inspector, together with the lack of appreciation of the necessity and value of good plumbing, on the part of the general public, has heretofore delayed action, but it is hoped that the appropriation for the health department for the current year will be sufficient to allow the employment of a suitable inspector in this line of sanitary work, and a code of plumbing rules is now being framed.

SEWERS.

The rapid growth of the city and the inability of the city government to promptly provide sewers for the new streets which are constantly being opened, has made the disposal of the house drainage one of the troublesome questions which our inspectors have had to deal with. In McGregorville, in the early summer, they found more than forty kitchen sinks pouring their sewage into the streets, or upon the surface of the ground about the houses. All the householders professed a willingness to enter sewers as soon as the city would provide them, but very generally they demurred at the idea of caring for their sewage in a lawful manner until that time. Legal notices, however, had the desired effect, and means of conveying the sewage away under ground in a manner not to be offensive were provided. These unsanitary conditions will continue to be found so long as thickly built streets are left without sewers.

There is a great deal of misapprehension on the part of many householders as to the respective duties of the city and themselves in this matter. The law requires every man to keep his premises free from nuisances to his neighbors and the public. By the same rule that he must care for his privy-vault and his pig-sty, he must also care for his sink-water; and this he must do even when there is no sewer near his premises. The city is under obligation to build sewers for the public good. It has no right to build them for the convenience or profit of an individual.

The Hall street sewer, built many years ago to discharge the storm water from a very sparsely built territory, was allowed to discharge its water into Cemetery brook. As the territory had gradually become thickly built, the sewage at the outlet had become correspondingly objectionable, and at times of low water in the brook was bad in the extreme. This nuisance had been spoken of in a previous report of this board, and had otherwise been urged upon the attention of previous city governments. We are happy to say that this year his Honor the Mayor and the committee on sewers promptly remedied the trouble when it was called to their attention by extending the sewer and connecting it with another.

THE COLLECTION AND DISPOSAL OF WASTES.

So long as the swill is collected by a contractor who does business for the making of money, so long will the service be unsatisfactory alike to the citizens, the public, and the health department. Deluded with the idea that the perishable wastes of the city contain much valuable food for domestic animals, bidders have lowered the price of the work until, as we believe, there is not a living profit in the job. The consequence is that boys or cheap irresponsible men are employed as collectors. They are more anxious to do their work quickly than to do it well. In making their rounds places are omitted, frequently to the great annoyance and discomfort of the householder; and although when their delinquencies are reported the swill is promptly removed, yet it is probable that many citizens suffer in silence. With a contract which requires only the collection of perishable matters put in proper and separate receptacles, and which custom has interpreted to include only swill and things which are supposed to have some value as food for animals, and which thus excludes ashes, waste paper, dung, and carcasses of small dead animals, they have no difficulty in leaving all these things to the city scavenger carts, and even in frequently leaving the swill itself, when it is mingled with them. The city men have orders to take nothing perishable to the dumping-places, and so the noxious mass remains on the premises of the householder until he

complains to the health department, or else gets unreasonably vexed at a state of things for which he himself is primarily responsible, and dumps the vile stuff into the street. Imperfect as the scavenger service under its present organization is admitted to be, we believe that most of the inconvenience and annoyance to householders is caused by their own carelessness in neglecting to comply with the ordinance requiring them to keep the different classes of wastes separate, to keep them in suitable receptacles, and to set them out upon the back street at the right time for their removal. There is no better way of getting one's self properly served by others than to be scrupulous in the discharge of our own duties towards them.

In some parts of the city the people are too ignorant or too untrained in habits of neatness and order to take any care of their wastes, and the back street is used as a dumping ground for everything, no matter how offensive, which they have occasion to get rid of. Here again the same thing occurs. Neither set of men takes the offensive mixture, and the back street is in a chronic state of filthiness and neglect.

The swill collected must be carried a long distance out of the city, and even then it is liable to become a nuisance unless immediately buried or fed to animals. In the latter case the beef, milk, or pork which comes from animals fed upon it, is anything but desirable for food. Swill milk, in particular, has long and deservedly been under the ban of all physicians and other intelligent persons whose attention has been called to the subject.

As a way of remedying these evils we would suggest the following measures, all of which we believe to be in the line of necessary improvements:

1. To consolidate the two branches of the scavenger service, and to put the whole work into the care of the health department. It is understood that an ordinance making this change is already before the city councils.

2. To abolish the contract system of collecting and removing swill. It is submitted that there is no more propriety in getting this work done by contract than there would be in getting the business of the fire department or the school department so done.

3. To dispose of the swill and all other burnable wastes, excepting, perhaps, night-soil, by cremation. It will cost something to run a furnace for that purpose, but the expense will be largely offset by the lessened cost of attending to the city dump, where nothing but such things as ashes, brickbats, and lime rubbish would then be deposited; and it would be further and more largely offset by the shorter haul which would be made practicable. A furnace may be run in any neighborhood where ordinary mechanical business is carried on, without creating the least nuisance or cause of reasonable complaint. The swill is now carried more than two miles out of town, and even there it is the subject of some complaint.

CONTAGIOUS DISEASES.

An epidemic of measles began in November, 1891, and continued until the summer of 1892. With this exception, contagious diseases have dealt very lightly with the people of Manchester. Typhoid fever has caused a smaller number of deaths than in any year since the beginning of 1885, when our records commence. Deaths from diphtheria have been less numerous than in any year excepting the one immediately preceding.

The following table shows the number of cases of the principal contagious diseases reported to the board in each month of the year, together with the number of deaths from each disease, as taken from the books of the city registrar:

DISEASES.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.	Deaths.
Diphtheria	2	3	5	7	1	...	...	2	3	2	1	26	5
Scarlet fever	5	3	2	8	5	3	3	1	...	1	10	44	2	
Typhoid fever	2	1	1	1	1	7	3	6	4	5	3	33	11	
Measles	81	111	131	35	20	4	6	...	1	1	390	11

To this number should be added sixty-one cases of measles, which occurred at the Catholic Children's Home on Hanover

street, during the epidemic, and which were all reported at one time, making the total for measles four hundred and fifty-one.

The following table gives the number of cases of contagious diseases reported for the last six years, together with the number of deaths from those diseases in the past eight years:

YEARS.	Diphtheria.		Scarlet fever.		Typhoid fever.		Measles.		Totals.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1885	*	18	*	5	*	20	*	36	*	79
1886	*	9	*	.....	*	12	*	5	*	26
1887	73	17	94	4	28	18	*	9	*	48
1888	126	30	44	1	35	12	187	9	392	52
1889	79	23	259	5	36	16	54	4	428	48
1890	41	9	63	3	36	17	298	6	438	35
1891	21	2	25	.....	76	18	89	2	211	22
1892	26	5	44	2	33	11	451	11	554	29

* No returns.

PRECAUTIONS AGAINST SMALL-POX.

In June last the board received a communication from Dr. Watson, secretary of the state board of health, giving the names of four immigrants from Europe who had crossed the ocean on the steamer America, a vessel on which this disease had broken out, and who were probably then in this city. Our inspectors promptly located the four men, and as a precautionary measure they and their baggage were taken to the city hospital for contagious diseases, and there detained in isolation until the period of incubation of the disease had passed.

PRECAUTIONS AGAINST CHOLERA.

During the summer this disease was brought into the harbor of New York from Europe, and a very general state of apprehension existed that it would pass the quarantine and become epidemic in this country.

In view of this danger the board redoubled its exertions to make and to keep the city clean, and at once instituted the visitation and inspection already spoken of. They also prepared a circular of information, which was printed in English, French, and German, and freely distributed among the people, and which was also published in the daily papers. The work of the board in the direction of cleaning the city was ably and zealously seconded by Superintendent Sanborn, of the highway department, of whose work the scavenger service is now a branch.

In common with the country at large we were happily spared a visitation of the disease ; but the danger, in abeyance through the winter, is not yet passed, and vigorous measures for the further cleaning of the city will be resumed at the earliest moment after the snow and ice have left the yards and alleys. Other preparations putting the board in readiness for instantly dealing properly with the first and every succeeding case of the disease will be made at an early day. The scourge may not reach us ; let us hope that it will not, but scores of other forms of sickness are sure to be here, and against them all cleanliness is a defense more reliable than prayers or medicine.

TABLE

SHOWING THE MORTALITY OF THE CITY BY DISEASES AND BY MONTHS FOR THE YEAR 1892, COMPILED FROM THE RECORDS OF THE CITY REGISTRAR.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Abscess.....				1									1
“ of brain.....	1												1
“ of liver.....										1			1
Accident, not specified.....	1	1		1		1	1			2			7
“ killed by cars.....	1			1		1							3
“ fall.....					1						1		2
“ drowned.....							1	2					3
“ burned.....							1						1
“ asphyxia.....									1		1		2
“ fract ^d vertebra.....											1		1
“ fracture of skull.....									1				1
“ concus'on brain.....												1	1
Addison's disease.....				1									1
Amyloid liver and kidneys.....					1								1
Angina pectoris.....			1										1
Anæmia.....	2									2			4
Aortic insufficiency.....								1			1		2
Apoplexy.....			2	1	2	1	2	2	2		2	1	15
“ cerebral.....								1			1		2
Asthma.....		1											1
Atalectasis.....	1												1
Brain disease.....	1	1		2			1	2					7
“ congestion.....	1	1					1	2		1			5
“ inflammation.....	1				1			1		1			4
“ softening.....			1										1
Bronchitis.....	5				1	2		1	1	1	3	4	18
“ acute.....	2	1									1		4
“ chronic.....	1	1	1			1		1	1	1			8
“ capillary.....	4	2					2						9
Bronchial congestion.....											1		1
Bright's disease.....	1		1	1	3	1	1	1		2		1	12
Cancer.....	1			2	1				1		1		6
“ abdominal.....		1									1		2
“ breast.....			1										1
“ rectum.....						1					2		3
“ stomach.....	1	1		1			2		1				6
“ throat.....												1	1
“ womb.....			1										1
Calculi, biliary.....		1											1
“ renal.....								1					1
Cerebral effusion.....		1											1
“ embolism.....			1										1
Cholera infantum.....	2		1			6	44	21	22	5		2	103
“ morbus.....						3	2	1	1	1			8
Constipation.....				1									1
“ with phthisis.....													
Convulsions.....	3			1		1	3	1	1	1			11
Croup.....				1						1			2
“ membranous.....				1									1
Cystitis, chronic.....								1					1
Development, imperfect.....											1		1
Debility, general.....	2	2	6	4	4	4	1	2	2	1			28

TABLE.— *Continued.*

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Dentition.....	1			1									6
Diabetes, mellitus.....			1				1	1	1	1	1		5
Diphtheria.....			1	1	1		1			1			5
Diarrhea, chronic.....											1		1
Dropsy.....	1	1		1									3
Dysentery.....								1				1	2
Enteritis.....			1			1		1					3
" gastro.....	1						1						2
Empyema.....					1								1
Endocarditis.....				1			1						2
" rheumatic.....										1			1
Epilepsy.....	1			1	1								3
Erysipelas.....	2												2
Exhaustion.....						1							1
Fever, typhoid.....	2		1	1		2	3		1			1	11
" puerperal.....	1		1		1								4
" scarlet.....				1					1				2
Gastritis.....											1		1
" chronic.....						1							1
Grippe.....	9	1	1	4				1					16
Hæmatocele, pelvic.....			1										1
Heart disease.....	3	1	1		3		7	4	4		3	3	29
" organic.....								1					1
Heart, fatty degeneration.....								1			1		2
" apoplexy.....						1							1
" paralysis.....					1								1
" failure.....			1							1			2
" neuralgia.....							1						1
" valvular disease.....	3	1			2			1	1			1	9
" rheumatism.....			1							1			2
Hepatitis.....											1		1
Hæmoptysis.....	2				1								3
Hæmorrhage.....	1												1
" cerebral.....										1			1
" post partum.....										1			1
Hydrocephalus.....							1	1			1		3
" acute.....				1				1		1			3
Hernia.....					1								1
Inanition.....	2					2							4
Influenza.....	3			1						1		1	6
Jaundice.....										1			1
" hemorrhagic.....										1			1
Kidneys, disease of.....	1									1			2
" inflammation.....		1											1
Laryngitis.....	1								1				1
" croupous.....		1											1
Liver disease.....									1		2		3
" obstructive.....	1												1
Liver, cirrhosis.....			1					1			1		3
" yellow atrophy.....	1												1
Locomotor ataxia.....									1				1
Lumbago.....								1					1
Lungs, congestion.....	1			1					3	1			6
" inflammation.....	1		1								1		3
Malaria.....	1										1		2
Marasmus.....	3		1	1			2	3		1			11
Malformation of heart.....											1		1
Metritis.....		1					2		1				4

TABLE.—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Metro-peritonitis.....	2												2
Miscarriage.....												1	1
Measles.....	2	5	3	1									11
Meningitis.....	1	1	1	2		1	1	1		2			9
" acute.....	1				1								2
" cerebral.....	2		1			1					1		5
" cerebro-spinal.....		1										1	1
" spinal.....						1							1
" tubercular.....	1			1									2
Nephritis, acute.....				1	2	1					1		5
" tubal.....							1						1
" chronic.....			1						1				2
" parenchymat's.....						1							1
Neurasthenia.....							1	1					2
Old age.....	5	4	1	1	1	1			1	1	1	3	19
Paralysis.....	1	2	2	2	1	3	2		1			1	15
" progressive.....											1		1
Peritonitis.....	1		3		2	1		2			2		11
" acute.....		1											1
" septic.....				1									1
" puerperal.....										2			2
Pericarditis.....		1											1
Phthisis.....	9	6	12	4	7	6	12	6	6	6	11	4	89
Pneumonia.....	14	2	5	3	2	2		1			5		34
" acute.....					1								1
" bronchial.....		1											1
" catarrhal.....											1		1
" typhoid.....						1			1	1			2
Premature birth.....		1				1	5	1	1	1	1		11
Quinsy.....	1												1
Rheumatism.....		1											1
Sclerosis.....		1											1
Scrofula.....					1								1
Septicemia.....	1	1				3							5
Shock.....	1												1
Still-born.....	2	2	2	6	2	8	11	6	3	7	3	5	57
Suicide, drowning.....											1		1
" throat cut.....								1					1
" gunshot.....							1						1
Syphilis.....							1	1	1				3
Tonsilitis, malignant.....										1			1
" ulcerative.....	1												1
Tumor, abdominal.....											1		1
Ulcer of bowels.....											1		1
" of stomach.....									1				1
" of uterus.....										1			1
Returned "cause unkno'n".....	6	1	1	2	1			2	2	1		1	17
No cause assigned.....	16	10	23	9	7	15	29	20	12	16	6	13	176
From natural causes.....	1					1							2
Weakness.....	1									1			2
Cold.....		1											1
Cough.....												1	1
Complicat'n of discas's.....					1					1			2
Headache.....	5		1	2	3		2			1			14
Totals.....	141	67	84	70	58	77	148	100	81	75	68	51	1020

The foregoing table has been compiled from the city registrar's books by Inspector Clough. There is no reason to doubt that the undertakers' returns in the hands of the registrar afford a practically correct basis for the enumeration of the deaths in each month and of the total for the year, but a large part of them are very defective in other respects. In this connection attention is invited to the last eight items, which have purposely been grouped in the table. Here are 215 deaths, more than one fifth of the whole number, the causes of which are not returned in any proper or lawful manner. These omissions impair very seriously the value, for statistical purposes, of the whole registration. For instance, we cannot say that there were only eleven deaths from typhoid fever or only one hundred and three from cholera infantum. In all probability a good registration would have shown that there were not less than two hundred victims of this last-named disease. There are many other serious defects, but the returns seem to have been accepted, recorded, and paid for as if they had been made in conformity to the statute. Inquiry at the city auditor's office brings out the fact that the returns and registration of vital statistics for the year cost \$996.95. If the record were as complete as the law requires, it would be worth all it cost.

For some other aspects of this subject, reference may be made to the vigorous words of the inspectors' report. As a partial remedy for some of the evils complained of the board would respectfully suggest the passage by the city councils of an ordinance providing that in all cases where a person dies having had no attending physician, and where the friends are unable or unwilling to employ a reputable physician for the service, it shall be the duty of the undertaker to procure from the city physician, or some other practitioner appointed for that purpose, a certificate of the probable cause of death as it shall appear after viewing the remains of the deceased, and after a careful and sufficient inquiry into the history and circumstances of the sickness and death, and fixing a proper compensation to the examining physician, to be paid out of the city treasury. It is believed that this arrangement, if faithfully carried into practice, would render it materially more difficult to conceal crime, and it would certainly greatly increase the scientific value of the registration records.

SOME COMPARISONS OF VITAL STATISTICS FOR THE LAST EIGHT YEARS.

	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
Population, estimated.....	37,884	39,032	40,215	41,433	42,689	44,126	45,500	48,000
Number of deaths, exclusive of still-births	733	725	798	853	764	901	880	963
Deaths, per thousand of population	19.35	18.57	19.84	20.59	17.90	20.40	19.34	20.06
Deaths of children under five years	312	313	356	397	353	434	393	500
Ratio, deaths of children to total deaths, per cent.....	42.56	43.17	44.61	46.54	46.20	48.17	44.66	51.32
Deaths of children per thousand of population.....	8.24	8.02	8.85	9.58	8.27	9.87	8.64	10.42
Deaths from zymotic diseases	231	205	256	227	199	252	181	.....
Deaths from zymotic diseases per thousand of popula- tion.....	6.10	5.25	6.37	5.48	4.66	5.72	3.98	.....
Cholera infantum	89	115	148	115	86	141	122	103
Consumption	93	109	93	109	79	94	84	89
Croup	12	21	25	24	25	15	7	3
Diphtheria	18	0	17	30	23	9	2	5
Bronchitis, all forms	29	11	29	37	53	38	38	39
Pneumonia, all forms.....	42	26	39	45	38	58	72	39
Heart disease, all forms	40	37	45	23	47	43	38	48
Scarlet fever.....	5	0	4	1	5	3	0	2
Typhoid fever.....	20	12	17	12	16	17	18	11
Measles	36	5	8	9	4	6	2	11
Whooping-cough.....	11	3	1	5	6	4	5	0
Small-pox.....	3	0	0	0	0	0	0	0
Births reported.....	1,106	1,207	1,331	*830	*872	*965	*985	1,178
Births per thousand of population	29.19	30.92	34.59	439	506	463	549	637
Marriages reported.....	404	451	473	.....	.....	.....	.....	.....

*The returns are manifestly incomplete.

The estimate of population is for the middle of the year 1892, and is made on the best procurable data. It is believed to be very nearly correct.

The death rate still continues to be about twenty per thousand. This, though higher than it ought to be, compares well with that of the county and of the state. In 1890, the last year for which the statistics are at hand, the death rate for Hillsborough county was 21.14, and that for the whole state was 19.56. Manchester's rate for that year was 20.40. Our death rate is made higher than it otherwise would be by our excessive infant mortality. Five hundred children less than five years of age died in this city last year. This is more than half of the whole number of deaths. The number occurring in each month is as follows: January, 46; February, 34; March, 32; April, 29; May, 21; June, 46; July, 104; August, 66; September, 47; October, 32; November, 18; December, 25. One hundred and three of these are returned as due to cholera infantum; twenty-one deaths were caused by measles, diphtheria, croup, and scarlet fever, but only a part of these were of persons under five. Nearly all of the 176 deaths for which no cause is given, the 14 for which headache is assigned, and the 17 with "cause unknown" are of this class. The remainder of the 500 are mostly due to those diseases which afflict persons of all ages. If the proportion of infantile deaths could be reduced so as to be like that of the whole state, that is to say, to about one fourth of the total number of all ages, 350 lives would be saved annually, and the death rate would be reduced to about 13, which is as low as that of Coös, the most healthful county in the state.

The returns of places of interment indicate that a very large majority of the deaths occur in the families of the foreign-born element of our population. Ignorance on the part of the parents of the way of properly caring for their children, inability through poverty to so care for them, and, in too many cases, that neglect which is caused by intemperance and vice and by the low value set upon the lives and health of the little ones, are the prime causes of this wholesale destruction of infant life. How best to dispel, or at least to mitigate, the effects of this ignorance, pov-

erty, and vice is a question pressing alike upon the health officer, the citizen, and the Christian. One measure towards which we look forward, and which only lack of the necessary funds prevents us from immediately adopting, is the establishment of a daily medical visitation of these families during the two or three warm months when this mortality chiefly occurs. Such a patrol wisely conducted would speedily vindicate itself as one of our most beneficent public charities.

The increase in the death rate of this class from 8.64, in 1891, to 10.42, in 1892, shows that some unfavorable influence was present during the year. If the rate had remained as in the preceding year, eighty-five infants now dead would have remained alive. The change of the statute regulating the sale of milk, made in the general revision of the statutes, which came into effect on the first day of the year and which made it much more difficult to secure the conviction and punishment of dealers in poor milk, is the only adverse influence known to the board; and this increase in the infantile mortality is precisely the result which was foreseen by physicians and others when in the early part of the year it became generally known that such a change had been made by the revisers.

The board has been in existence eight years. As in previous annual reports, we again have occasion to congratulate our citizens on the steady growth of the public interest in sanitary work. While year by year we find the expectations of our people as to the duties and powers of the department, and the calls upon us for service, growing more numerous, more urgent, and more intelligent, we observe also abundant evidence of a better conception in the minds of the people of their own rights and responsibilities in this direction. We note with especial gratification the changed attitude of the public mind in regard to the existence of privy vaults, and as to the manner and time of cleaning them; the impropriety of using garbage for filling streets and lots; the impropriety of keeping swine and fowls; the better ideas as to the contagious and preventable nature of certain diseases, and as to the duty of the board to isolate persons who are suffering from them. We remember also the abolishment of the

filthy ponds in our public squares, a change in favor of which the board contributed its whole influence. It is worth something, too, that in spite of our great influx of foreigners, British-Americans, Europeans, and Asiatics, our death rate has not increased. These are some of the results thus far secured, but there remains much ground yet to be occupied. The establishment of a medical patrol for the treatment of cholera infantum, of a well-appointed house of isolation for contagious diseases, and of a garbage crematory, the weekly removal of the dung from stables, are some of the points yet to be gained.

To be the faithful servants of the people, and yet to be their leaders in these and all other sanitary reforms, is the duty of this board, and we hope to see the time when the amount expended by the city for the protection of health will bear some just relation to that expended for the protection of our buildings and of the public peace.

We thank your Honor for your unflagging interest and for many courtesies and helpful suggestions in the discharge of our duties.

GEORGE C. HOITT,
JOSEPH B. SAWYER,
NEIL F. STARR,
Board of Health of Manchester.

MARCH 15, 1893.

INSPECTORS' REPORT.

Gentlemen of the Board of Health :

The undersigned beg leave to submit the following report of the work done in the inspectors' department for the past year. The present inspectors commenced their work March 1, from which time a daily record of the work has been kept, and with the exception of the contagious diseases reported in January and February, all the work has been done since that date :

Inspections were made as follows :

Vaults and privies before cleaning	1,650
Vaults and privies after cleaning	1,701
Cellars	1,310
Water-closets	716
Alleys and yards	629
Tenements and blocks	74
Stables	54
Latrines	35
Teams and rigging of excavators	54
Soaperies, slaughter-houses, etc.	12
New blocks	15

Cleaning or repairs were ordered in the following cases, and in nearly all cases the orders were complied with :

Cellars	387
Vaults	314
Alleys and yards	159
Privies	65
Water-closets	98
Tenements and blocks	10
Vault covers	109
Leaky sink pipes	73

Sink water was discovered running on the surface of the ground in 117 places, and in all cases where the sewer was within the legal distance, entries were ordered. In cases where there was no sewer it was cared for in a manner not to be offensive. Complaints to the number of 360 have come to the office. In 163 cases the complaint was without cause or of such a nature that there was no remedy. In the remaining 197 cases the nuisances were abated.

Thirty complaints have been entered against the scavenger service. The contractor was notified, and relief promptly given in all cases.

Eighteen catch basins were complained of, and were repaired or flushed by the superintendent of streets at the request of the inspector.

Fifty-two dead animals were buried.

In seventeen cases the inspectors went through large blocks and warned the inmates to stop throwing swill and slops from the windows.

By direction of the board samples of water from two suspected wells were sent to Prof. Angell, of Derry, for analysis. In both cases he pronounced the water good.

Seven permits were granted to householders for the cleaning of their own vaults.

Ten animals were found being kept in cellars of dwellings, and were ordered removed.

Nuisances were abated in fifty-five cases not covered in the above list.

One hundred and thirty hogs were discovered in the compact part of the city, and ordered removed.

Monthly reports were made to the State Board of Health, and weekly reports to the U. S. Marine Hospital service at Washington, D. C.

Early in the spring a few house drains were found emptying into Mile brook. A warning to the delinquent parties was found sufficient, however, and an inspection in the summer failed to show any contamination of the brook by sewage.

Five hundred and fifty-four contagious diseases were reported ;

485 houses were placarded, and the cards removed at the termination of the sickness; 104 sanitary surveys were made of houses in which contagious diseases existed. In fifteen cases it was found disinfectants were not being used, and they were ordered and in some cases furnished. Forty-three children living in houses in which contagious diseases existed were kept from attending school. In three cases fumigation was made by the inspectors after the termination of the disease.

In addition to the above, 2,645 calls were made, and 429 letters written in pushing the work of the department. Two hundred and fifty-nine legal notices have been made out and served, and the proper returns made.

Changes have been made in the sanitary arrangements, water-closets being substituted for vaults and barn cellars, as follows:

A	1
Adams	2
Amherst	32
Amoskeag Manufacturing Co., north of Bridge	112
Amory	6
Appleton	1
Auburn	2
Beauport	6
Birch	16
Blaine	4
Blodget	2
Bowman	1
Boynton	4
Bridge	47
Brown avenue	1
Brook	1
Cedar	3
Central	27
Chestnut	25
Church	4
Concord	2
Dover	1
Douglas	20

Elm	172
Ferry	2
Granite	24
Grove	2
Hanover	59
High	5
Hollis	5
Jane	1
Lake avenue	18
Laurel	8
Liberty	1
Lowell	10
Main	34
Manchester	29
Maple	3
Mast	1
McGregor	22
Merrimack	8
Milford	2
Munroe	1
Myrtle	2
Nashua	5
Orange	35
Pearl	94
Pennacook	5
Pine	19
Prospect	3
Russell	5
Sagamore	1
Stark corporation	8
School	1
Second	3
Spruce	10
Union	5
Wayne	3
Walnut	3

West	3
Washington	7
Wilson road	1
Winter	1
	—
	94

Six latrines have been substituted for privy vaults containing 61 closets, or what is equivalent to 1,002 water-closets.

VAULTS.

The number of vaults cleaned by the three licensed cleaners was as follows: John T. Gott, 1,012; T. McKenna, 657; Thomas Welch, 81, making a total of 1,750, being a gain of 373 over last year. The inspectors have examined nearly all of them directly after cleaning, and but rarely has it been necessary to send back the cleaners to remove any matter left in the vault, the work having been generally well done. The class of men which the cleaners must of necessity employ, renders it hard to have the work done with the neatness and dispatch which is desirable. The inspectors have kept constant watch, however, and have insisted on the teams and rigging being kept clean and in a good state of repair. The inspectors have made earnest endeavors to find something which would kill the stench arising during the progress of the work. Correspondence with other cities and with firms engaged in the manufacture and sale of disinfectants and deodorizers has failed to produce anything of practical value.

Of the vaults themselves nothing that is good can be said. Many are without bottom except mother earth, and the liquid filth thrown into them is almost entirely absorbed. In most cases where vaults have been removed the past summer, the inspectors have noticed that even when the bottoms were supposed to be tight, the matter managed in some way to leach through, and the earth was filthy in the immediate vicinity.

Four cases have been brought to the police court of parties who were dilatory or obstinate in the matter of making changes. One escaped through a technicality, one settled before the case came to trial, and two were bound over to the supreme court.

One of these settled, and the trial of the other will probably take place in this city in March.

WATER-CLOSETS.

The substitution of water-closets for privy vaults in so many places is good only where good closets are provided. Cheapness, not perfection, has been the aim of some of the property owners who have been obliged to make changes the past summer. Some closets have been put in that the inspectors have reason to believe are no better, if as good, as the privy vault. Lack of proper traps and lack of ventilation of the house drain and soil pipe, and an insufficient water supply, are some of the glaring defects. The day of pressure closets has gone by. In most cities nothing but a tank flush is allowed. The experience of others should be our gain. In the absence of plumbing rules, and owing to a lack of knowledge of the business, the inspectors have hesitated to interfere in cases where perhaps those of more experience would have found some remedy. The inspectors would strongly recommend that a set of plumbing rules be adopted, and if possible an experienced plumber be secured as an inspector.

OVERCROWDING.

Some cases have been discovered the past year, and the trouble remedied. Where the landlord is at fault this can be easily arranged. Most of the trouble is due to the fact that poor people in large families secure small tenements for cheap rent. Some sublet rooms, and even parts of rooms, or take boarders. In case the inspectors discover indications of overcrowding, the people at fault lie most vigorously in the matter, so that it is hard to secure good evidence. The law provides no punishment for the offense. But little can be done in the matter until the statutes define what overcrowding is, and provide a penalty for the offense. Families cannot very well be separated, and in the other cases the people when driven out of one place simply herd together in another in a manner fully as bad.

HOUSE TO HOUSE INSPECTION.

A systematic house to house inspection of the thickly settled part of the city was begun the latter part of August. The results were gratifying in the extreme. Cellars, yards, vaults, alleys, water-closets, and drain pipes received a thorough examination, and when it was necessary were ordered cleaned or repaired. Barn cellars containing piles of manure which had been, in some cases, two or more years in accumulating; house cellars which probably had never been cleaned since the buildings over them were erected; and vaults which, although not full, in some cases had not been cleaned for three years, were all put in proper sanitary condition. In one case eight loads of filth were taken from a small cellar under part of a tenement block. Investigation showed that this cellar had been used as a sty for swine some years before, and the filth was the manure which had never been removed. The fear of a cholera epidemic helped much to stir the delinquent ones to an effort to reform in sanitary matters; and the inspectors are also indebted to members of the Catholic clergy, who gave much good advice to their parishioners at this time. Nearly everybody complied with the requests of the inspectors or orders of the board. In two cases it became necessary to employ men and have the work done under the supervision of the inspectors. In both cases the owners were obliged to settle for the work done and costs accruing. *

CONTAGIOUS DISEASES.

The city has continued to be fortunate the past year in the matter of dangerous contagious diseases. While there is but little doubt in the minds of the inspectors that some cases are never reported, yet they also believe that most of our physicians endeavor to do their duty in this matter. The inspectors can most heartily endorse what has been heretofore recommended in the matter of changing the law so that householders would be held equally responsible with the physician in the matter of reporting. Cases sometimes occur where the disease is in so mild a form that no physician is called, and no report comes to the

board. Thus no efforts are made to prevent its spread. As a person can catch a disease in a malignant form from one who is only slightly sick, it can readily be seen that great damage is liable to be done even with the best of intentions, and all attempts to prevent the spread of a disease may be frustrated by some careless person who is only slightly affected.

MEASLES.

Measles, which assumed an epidemic form in December of last year, continued to rage until about June 1. All but 12 of the 451 cases occurred before that time. The disease evidently stopped for lack of material to feed upon, as the measures taken to prevent its spread proved ineffectual. This was due in a great measure to the fact that many persons seemed to have no fear of the disease, and took no pains to avoid the contagion. In some cases parents exposed their children so that they might have the disease while young and at home. Many cases occurred where no physician was employed, and they were never reported to the board.

The returns sent to the city clerk show that 11 deaths occurred. Only one of these fatal cases was reported to the board. In most of the other cases no physician was employed, so that there may be some doubt as to the cause of death. The undertakers, by whom the returns were made, knowing that measles was the prevailing disease, evidently considered it as good a cause for death as anything else, and so reported.

SCARLET FEVER.

Scarlet fever, although visiting several neighboring cities, failed to appear here to any extent until December, ten of the forty-four cases being reported in that month. Four of these cases occurred in a tenement block on Birch street, all being members of one family. The cases were not reported until one child had died, no physician having been called in until just as death occurred. Prompt and energetic measures were taken by the board and inspectors. The family was removed to the hospital for

contagious diseases, and the tenement and furniture thoroughly disinfected. Immediately afterwards two other persons who had boarded in the family were taken sick and they were removed to the same place. These cases have all recovered. While no epidemic has as yet appeared, there are more cases at present in the city than is desirable. Extra exertions are being made to keep every case isolated and the inspectors are hopeful that an epidemic may be averted. Only two deaths occurred from this disease during the year.

DIPHThERIA.

Twenty-seven cases of this disease have been reported the past year, five of them proving fatal. In this as in the other contagious diseases the inspectors have not always been able to trace the cause of the disease, some cases occurring in houses where the sanitary surroundings were as good as possible. The failure of people to heed the warning of the board of health to keep entirely away from a person sick with this disease was the cause of at least five cases and two deaths. The circumstances were as follows :

April 19 the board of health received notice of a case of diphtheria on the corporation, in the person of Mrs. A. The house in which she lived was a boarding house, and Mrs. A the landlady. The inspector immediately placarded the house and made a sanitary inspection. The sinks were all trapped. The cellar had a concreted bottom and no vegetable refuse or other objectionable matter was found in it. The privy was situated in the shed, which is some thirty feet from the house, and underneath it was a common vault which a few days before had overflowed into the back street. It was cleaned nearly as soon as discovered and chloride of lime had been freely used before the cleaning and other disinfectants when the cleaning was done. The yard was neat and clean and no refuse matter of any kind was lying about. In the yard was a slop hopper which had the appearance of being unused and no smell proceeded from it. The sanitary surroundings were marked by the inspector as first-class.

The lady in charge of the house stated that Mrs. A was thor-

oughly isolated and that only the nurse was allowed to enter the room. Disinfectants were also being used, and the inspector left, feeling that the disease would be properly looked after and would not spread.

May 4 two cases of diphtheria were reported from Granite street, West Manchester, in the persons of a little girl and her grandmother. The house was also a boarding house and the sanitary examination revealed a state of things which alarmed the inspector. The owner of the place went to work very promptly, however, and by noon everything had been put in good condition. The health officer found on inquiry that the little girl, who was visiting at the place and who belonged in Massachusetts, was taken sick April 30, and previous to that time had been much at the boarding house of Mrs. A on the corporation.

The grandmother was taken sick May 2. The little girl was very sick and died within twenty-four hours of the inspector's visit. The grandmother recovered from the diphtheria but remained in a weak state and finally contracted another disease which proved fatal.

May 10 a case of diphtheria was reported from Dover street, just around the corner from the case on Granite street. On inquiry it was found to be a little girl who had been playing with the children living at the infected house on Granite street. She recovered.

May 13 another case was reported from Mrs. A's house on the corporation and the patient died.

May 20 a case was reported from another corporation boarding house. Inquiry revealed the fact that this person had also been visiting at Mrs. A's house. Luckily the ladies in charge at the last place were intelligent and willing to do any and every thing possible to isolate the patient, and no more cases resulted.

These facts go to show that if complete isolation is required it cannot be obtained in tenement blocks and boarding houses unless officers are stationed in every house where these diseases occur, with the most stringent orders to prevent all contact with the sick one or the infected room. Boards of health and sanitarians all over the country are asking for contagious disease hos-

pitals. Had Mrs. A, who was only mildly sick, been immediately removed and the house thoroughly disinfected, it is fair to presume that the succeeding cases and deaths would not have occurred.

DEATH RETURNS.

The returns from which the table of mortality was compiled continue to be as unsatisfactory as in former years. Cough and headache still figure as a cause for death. Were the question any less serious it would be farcical. The worst feature of the case is the fact that 176 of the returns have no stated cause for death and evidently no attempt was made to find what the disease might have been. The number of such returns has been increasing from year to year until the total is something appalling. One hundred and seventy-six babies, for they were mostly children under one year of age, were sick and died in this city the past year and no physician was summoned in an attempt to save their lives. Truly, human life is dirt cheap when parents allow their children to die like beasts. Animals of any value receive better treatment. But there is another side more horrible still. How many of those little ones died of disease and how many were murdered? That is a hard word to use but who can say it is not a just one? The looseness in this matter certainly leaves the door open for a wholesale slaughter of the innocents. And the criminal records are full of cases where men and women have sacrificed their children for their own convenience or selfishness. The inspectors strongly recommend a reform in this matter. If it is the fault of the law let some amendment be added so that it shall be the duty of some person to inquire into each case so reported and let no person be buried the cause of whose death can be considered at all suspicious. Let the community feel sure that each death was caused by natural causes and that crime, if it occurs, is justly punished.

CONCLUSION.

In conclusion, the inspectors would say that while their efforts in some cases have fallen short of what they hoped to attain, yet

they feel that there has been a decided improvement in the sanitary condition of the city. Places exist which are far from sanitary in their condition, but in a city with a population drawn from nearly all the countries on the globe it is not strange that perfection is not found. Many of these people are ignorant of the commonest sanitary laws, and many more are too indolent when the necessary information is imparted to them to care to take advantage of it for their own and the public good. Should they be finally aroused to a sense of what is proper, new arrivals come who render it necessary to go over the same ground again, and until they, too, are instructed the trouble continues.

The inspectors desire to thank each and every one who has helped them in their work, and especially his Honor Mayor Knowlton and the heads of the different departments, who have been ready at all times to forward the work of the department.

HERBERT S. CLOUGH.

JOHN F. LOONEY.

The Path of the Pestilence.

Over the waters there comes a cry :

“ Cholera stalks the world once more ! ”
And the wandering wind, as it whistles by,
Bears the fell echoes from shore to shore.

Silent and sure, in the track of doom,

The Reaper is swinging his fatal steel :
And the winter hoar and the springtide bloom
Alike the edge of his cold blade feel.

Nor clime nor creed doth the Pestilence spare :

The northern frosts and the southern heats,
The pagan's howl and the Christian's prayer,
In his deadly march alike he greets.

He breathes awhile through the palace gates :

A wail goes forth for the mighty dead !
By the cabin door he grimly waits :
The angels weep round a lowly bed !

A thousand leagues he has still to go —

A thousand leagues o'er the billowy main,
Ere his awful breath the fiend shall blow
O'er the summer bloom of this land again.

There is time to arm for the deadly strife,

With the only weapons shall keep us whole :
The burnished shield of a virtuous life
And the trenchant sword of a fearless soul !

These, with an earnest faith in God,

The pestilence, haply, shall turn aside ;
But he that is bound to the reeking sod
With the shackles of vice — oh, woe betide !

— *New York Ledger.*

ELECTRIC LIGHTS, GAS LIGHTS, ETC.

ELECTRIC LIGHTS, GAS LIGHTS, AND OIL LAMPS.

Electric Lights in Use.

No.	1. Cypress and Massabesic,	arm.
	2. Massabesic-street watering-trough,	pole.
	3. Park and Beacon,	arm.
	4. Central and Hall,	"
	5. Lake avenue and Massabesic,	"
	6. Wilson and Laurel,	"
	7. Merrimack and Hall,	"
	8. Manchester and Hall,	"
	9. Manchester and Wilson,	"
10.	Hanover and Ashland,	"
11.	Hanover and Hall,	"
12.	Hanover and Beacon,	"
13.	Concord and Ashland,	"
14.	Bridge and Hall,	"
15.	Myrtle and Russell,	"
16.	Pearl and Linden,	"
17.	Pearl and Russell,	"
18.	Bridge and Nashua,	"
19.	Nashua and High,	"
20.	Concord and Dutton,	"
21.	Amherst and Porter,	"
22.	Hanover and Lincoln,	"
23.	Manchester and Lincoln,	"
24.	Merrimack and Lincoln,	"
25.	Laurel and Lincoln,	"

No.	26. Central and Lincoln,	arm.
	27. Lake avenue and Lincoln,	“
	28. Spruce and Lincoln,	“
	29. Spruce and Maple,	“
	30. Lake avenue and Maple,	“
	31. Central and Maple,	“
	32. Merrimack and Maple,	“
	33. Manchester and Maple,	“
	34. Hanover and Maple,	“
	35. Amherst and Maple,	“
	36. Concord and Maple,	“
	37. Lowell and Nashua,	“
	38. Bridge and Maple,	“
	39. Myrtle and Maple,	“
	40. Orange and Ash,	“
	41. Harrison and Beech,	“
	42. Myrtle and Beech,	“
	43. Pearl and Beech,	“
	44. Bridge and Beech,	“
	45. Lowell and Ash,	“
	46. Amherst and Ash,	“
	47. Lowell and Beech,	“
	48. Concord and Walnut,	“
	49. Amherst and Beech,	“
	50. Hanover and Beech,	“
	51. Hanover Square,	pole.
	52. Manchester and Beech,	arm.
	53. Merrimack and Beech,	“
	54. Laurel and Beech,	“
	55. Central and Beech,	“
	56. Lake avenue and Beech,	“
	57. Spruce and Beech,	“
	58. Cedar and Union,	“
	59. Lake avenue and Union,	“
	60. Central and Union,	“
	61. Laurel and Union,	“
	62. Merrimack and Union,	“

No. 63.	Manchester and Union,	arm.
64.	Hanover and Union,	"
65.	Amherst and Union,	"
66.	Concord and Union,	"
67.	Lowell and Walnut,	"
68.	Lowell and Union,	"
69.	High and Union,	"
70.	Bridge and Union,	"
71.	Bridge and Walnut,	"
72.	Orange and Union.	"
73.	Prospect and Union,	"
74.	Brook and Union,	"
75.	Pennacook and Union,	"
76.	Webster and Pine,	"
77.	North and Pine,	pole.
78.	Sagamore and Pine,	arm.
79.	Blodget and Pine,	"
80.	Harrison and Hazel,	"
81.	Prospect and Pine,	"
82.	Myrtle and Pine,	"
83.	Orange and Pine,	"
84.	Pearl and Pine,	"
85.	Bridge and Pine,	"
86.	Tremont Square,	pole.
87.	High and Pine,	arm.
88.	Lowell and Pine,	"
89.	Concord and Pine,	"
90.	Amherst and Pine,	"
91.	Hanover and Pine,	"
92.	Manchester and Pine,	"
93.	Merrimack and Pine,	"
94.	Laurel and Pine,	"
95.	Central and Pine,	"
96.	Lake avenue and Pine,	"
97.	Cedar and Pine,	"
98.	Auburn and Pine,	"
99.	Cedar and Chestnut,	"

No. 100.	Park square,	pole.
101.	Lake avenue and Chestnut,	arm.
102.	Central and Chestnut,	"
103.	Merrimack square,	pole.
104.	Merrimack and Chestnut,	arm.
105.	Manchester and Chestnut,	"
106.	Hanover and Chestnut,	"
107.	Concord square, east,	pole.
108.	Concord square, west,	"
109.	Chestnut and Concord back,	arm.
110.	Chestnut and High,	"
111.	Chestnut and Bridge,	"
112.	Chestnut and Pearl,	"
113.	Chestnut and Myrtle,	"
114.	Chestnut and Harrison,	"
115.	Chestnut and Brook,	"
116.	Pennacook and Chestnut,	pole.
117.	Salmon and Chestnut,	"
118.	Webster and Chestnut,	arm.
119.	Clarke and Elm,	"
120.	Webster and Elm,	"
121.	North and Elm,	"
122.	Salmon and Elm,	"
123.	Pennacook and Elm,	"
124.	Brook and Elm,	"
125.	Harrison and Elm,	"
126.	Langdon,	pole.
127.	Dean and Elm,	arm.
128.	Prospect and Chestnut,	"
129.	Orange and Elm,	"
130.	Kidder and Elm,	"
131.	Elm east back, on Pearl,	"
132.	Bridge and Elm,	"
133.	Washington and Church,	"
134.	Birch and Lowell,	"
135.	Lowell and Elm,	"
136.	Elm east back, between Lowell and Concord,	"

ELECTRIC LIGHTS, GAS LIGHTS, AND OIL LAMPS. 369

No. 137.	Water and Elm,	arm.
138.	Vine and Concord,	“
139.	Vine and Amherst,	“
140.	Amherst and Elm,	“
141.	Spring and Elm west back,	“
142.	Stark,	“
143.	Market and Franklin,	“
144.	Market and Elm,	“
145.	Hanover and Elm east back,	“
146.	Elm and Manchester,	“
147.	Dean avenue and Elm west back,	“
148.	Elm and Merrimack,	“
149.	Merrimack and Franklin,	“
150.	Middle,	“
151.	Merrimack square, west,	pole.
152.	Elm and Central,	arm.
153.	Elm and Lake avenue,	“
154.	Elm and Spruce,	“
155.	Beech and Cedar,	pole.
156.	Elm and Cedar,	arm.
157.	Franklin and Granite,	“
158.	Elm and Auburn,	“
159.	Elm and Green,	“
160.	Elm and Valley,	“
161.	Bakersville watering-trough,	“
162.	Summer and State,	pole.
163.	Granite and State,	arm.
164.	Granite bridge, east,	pole.
165.	Bedford and Granite,	“
166.	Canal and Granite,	“
167.	Depot and Canal,	“
168.	Central between Franklin and Canal,	“
169.	Bedford and Central,	arm.
170.	Canal and Merrimack,	“
171.	Canal and Middle,	“
172.	Canal and Stark,	“

No. 173.	Canal and Mechanic,	arm.
174.	Canal and Spring,	"
175.	Canal and Bridge,	"
176.	McGregor bridge, east,	pole.
177.	Canal and Hollis,	"
178.	Canal and Dean,	"
179.	Canal and Langdon,	arm.
180.	River road and North,	"
181.	Amoskeag bridge, east,	"
182.	Amoskeag bridge, west,	"
183.	Amoskeag watering-trough,	pole.
184.	Amoskeag brick store,	"
185.	McGregor and Main,	"
186.	McGregor and Bridge,	"
187.	McGregor bridge, west,	"
188.	Amory and Main,	"
189.	Amory and Beauport,	"
190.	Wayne and Beauport,	"
191.	Marion and Main,	"
192.	McGregor and Wayne,	"
193.	McGregor and Putnam,	arm.
194.	Sullivan and Main,	pole.
195.	Beauport and Sullivan,	"
196.	Main and Schuyler,	"
197.	Wilton and Main,	"
198.	Douglas and Main,	arm.
199.	Douglas and Barr,	"
200.	Granite and Green,	"
201.	West and Granite,	"
202.	Granite and Main,	"
203.	Granite and Second,	"
204.	Granite bridge, west,	pole.
205.	School and Turner,	arm.
206.	School and Third,	"
207.	Second and Bath,	pole.
208.	Ferry and Turner,	arm.
209.	Ferry and Third,	"

No. 210.	Walker and Second,	arm.
211.	Blaine and third,	"
212.	Clinton and Main,	"
213.	Walker and Main,	"
214.	Parker and West,	"
215.	Winter and Parker,	"
216.	Main and Mast,	pole.
217.	Main and Milford,	arm.
218.	Main and A,	"
219.	Carroll and Milford,	"
220.	Old Mast road and Mast,	"
221.	Hall and Amherst,	"
222.	Laurel and Maple,	"
223.	Central and Wilson,	"
224.	Harrison and Pine.	"
225.	Massabesic and Belmont,	pole.
226.	Union and Appleton,	arm.
227.	Elm and railroad crossing,	pole.
228.	Franklin and Pleasant,	arm.
229.	Elm and Appleton,	"
230.	Milford and Riddle,	"
231.	Nutt road and Portsmouth railroad,	pole.
232.	Lake avenue and Canton,	"
233.	Laurel and Hall,	arm.
234.	Beech and Brook,	"
235.	Kidder and Boyden,	pole.
236.	Myrtle and Walnut,	arm.
237.	Bridge and Linden,	"
238.	Lowell and Ashland,	"
239.	Lowell and Belmont,	"
240.	Pearl and Union,	"
241.	Salmon and Union,	pole.
242.	Water,	arm.
243.	Arlington and Ashland,	"
244.	Orange and Oak,	"
245.	Prospect and Oak,	"
246.	Arlington and Russell,	"

No. 247.	Gore and Walnut,	arm.
248.	Laurel and Milton,	“
249.	Massabesic — Hospital,	pole.
250.	Lake avenue and Wilson,	arm.
251.	Bridge and Ash,	“
252.	Hanover and Highland,	pole.
253.	Franklin and Depot,	arm.
254.	Spruce and Union,	“
255.	East High and Malvern,	“
256.	Beech and Auburn,	pole.
257.	Kidder and Whitney,	“
258.	Valley and Jewett,	“
259.	Concord and Derry,	“
260.	Auburn and Union,	“
261.	Harrison and Walnut,	arm.
262.	West Hancock and Second,	pole.
263.	Douglas and West,	“
264.	Hooksett road, Amoskeag,	“
265.	Prospect and Ash,	arm.
266.	Salmon and Canal,	pole.
267.	Harrison and Russell,	“
268.	Gates and Dubuque,	“
269.	Parker and Elm,	“
270.	Auburn and Maple,	“
271.	Salmon and Pine,	“
272.	Appleton and Adams,	“
273.	Clark and River road,	arm.
274.	Amoskeag eddy, south,	pole.
275.	Elm east back, between $\frac{1}{2}$ Spruce and Cedar,	“
276.	Cass and Lake avenue,	“
277.	Riddle and Mast,	“
278.	Brown avenue and Baker,	arm.
279.	Brown avenue and Hancock,	pole.
280.	Clark and Union,	arm.
281.	Prospect and Linden,	pole.
282.	Brook and Maple,	“
283.	Brook and Hazel,	“

No. 284.	Webster and Walnut,	pole.
285.	Chestnut and Ray brook,	“
286.	Webster and River road,	“
287.	Market and Canal,	arm.
288.	Concord and Beech,	“
289.	Pearl and Morrison,	pole.
290.	Concord and Hall,	arm.
291.	Merrimack and Belmont,	“
292.	Spruce and Beacon,	“
293.	Belmont and Grove,	“
294.	Bowman,	“
295.	Amory and Rimmon,	pole.
296.	Manchester and Milton,	“
297.	Valley and Pine,	“
298.	Mammoth and Candia roads,	“

SERIES INCANDESCENT LAMPS.

299.	Walker and Third,	pole.
300.	Winter,	“
301.	East High and Jane,	“

Gas-Lights in Use.

Clarke and Chestnut.
 Clarke and River road.
 Elm, near Ray brook.
 Monroe.
 Appleton, west end.
 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.
Pearl and Maple.
Arlington and Maple.
East High and Maple.
Lowell and South.
Lowell and Jane.
Amherst and Ashland.
Lowell and Hall.
Concord and Belmont.
Amherst and Belmont.
Amherst and Beacon.
Lowell and Beacon.
East High and Belmont.
Harrison and Oak.
Harrison and Maple.
Harrison and Ash.
Belmont and Central.
Maple and Cedar.
Willow and Merrill.
Two lights on South Elm.
Auburn and Franklin.
Three lights on State.
River, near Turner Hall.
Milford and Bowman.
Milford and B.
River and Douglas.
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.
 Manchester and Belmont.
 Hanover and Milton.
 One light on River road, corner Shasta.
 Hanover and Belmont.

Oil Lights in Use.

Clarke and Adams.
 Concord and Beacon.
 East High and Hall.
 Pearl and Linden.
 Canal, near Amoskeag bridge.
 Merrimack and Beacon.
 Hanover and Mammoth road.
 Lake avenue and Hall road.
 Elm and Shasta.
 Elm and Baker.
 One light 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.
 Massabesic and Hall road.
 Massabesic and Taylor.
 Belmont and Green.

Valley and Taylor.

Valley and Cypress.

Cypress and Prout avenue.

Jewett and Young.

Young and Taylor.

Three lights on River road south of Blue store.

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 at junction of Lake avenue and Hanover.

One light on Island Pond road, Mill-Dam House.

One light at junction Ainsworth avenue and Young road.

One light at junction Ainsworth avenue and Young street.

One light on Taylor, near Byron Stearns's house.

One light on Taylor, near Gilmore's house.

One light on Valley, near Eastman's store.

One light on Candia road, at P. Rogers's.

One light on Candia road, at Dan Cronin's.

One light on Candia road, at G. Bean's.

One light on Candia road, at C. Francis's.

One light on Candia road, at S. Mead's.

One light on Candia road, at Clafin's.

One light on Hanover, at Sam Page's.

One light at junction of Hanover and Page.

One light at Brown's.

One light at Junction of Hanover and Proctor.

One light at junction of Hanover and Candia road.

One light at junction of Proctor and Candia roads.

ELECTRIC STREET LIGHTING IN AMERICAN CITIES.

BY ROBERT J. FINLEY.

Although it has been less than six years since the field of electric lighting was first entered by the municipality, more than one hundred and twenty-five cities in the United States now own and operate plants. The movement has not been a local one. It has extended across the country from Bangor, Me., to Galveston, Tex. So far this movement has been confined chiefly to the smaller cities, but the larger cities are beginning to discover that the element of size is not necessarily a bar to their entrance upon the same course. Chicago at a very recent date was operating successfully seven hundred and twenty-five arc lights, and the sphere of its operations in this field has been growing rapidly. The mayors of New York, Boston, Philadelphia, Baltimore, Atlanta, and other of the larger cities have discussed in their messages the advisability of the assumption by the municipal government of these quasi-public works.

COST OF MUNICIPAL ELECTRIC LIGHTING.

The statistics and information relating to municipal ownership, given in this article, have been obtained by direct inquiry, and are based upon official and authoritative statements coming from the various cities owning electric-lighting plants. They are taken as the result of many facts secured, as to cost and full capacity of city plant, value of property occupied, number and candle power of arc lights, and number of lights burned and cost of each

to the city. Of seventy-five cities from which data were gathered, only twenty-three furnish facts from which the cost of operation and the value of the plants and buildings can be determined, and for these it has been found necessary, for purposes of completeness and accuracy, to tabulate the operations of the plants for the fiscal year 1889-90. The returns for the succeeding years show, so far as they are conclusive, that the cities have been able to reduce the cost much below the average given in Table I.

From this table it is seen that the average cost of each arc light owned and directly operated by twenty-five cities is \$53.04 a year. In the case of only three or four of the cities does it appear that interest on the investment has been included. Obviously, account should be taken of both interest and depreciation of property, which items, computed at twelve per cent of the total value of the twenty-three plants and buildings, would add \$33.60 to the first cost, making the average final cost to the twenty-three cities operating electric lighting plants \$86.64 per arc light per year.

CONTRACT PRICES CHARGED BY PRIVATE COMPANIES.

Table II. gives the contract prices paid by twenty-nine cities to private electric lighting companies during the same period covered by Table I. It is compiled from a government report on gas and electric lighting, published as "Senate Miscellaneous Document No. 56, Fifty-first Congress, Second Session," and the aim in its preparation has been to select from the parts of the country in which the twenty-three municipal works are situated private plants having the same arc light capacity. For instance, Peoria, Ill., with a capacity of two hundred and thirty-three arc lights is set over against Bloomington, Ill., with two hundred and forty arcs. Twenty-nine cities rather than twenty-three have been taken, for the reason that in six of the cities most nearly fulfilling the conditions upon which the selections were based, the cost appears to be abnormally high. The average yearly price charged for each of the arc lights by the twenty-nine private companies is shown to be \$106.01, or nearly \$20 a lamp

more than it costs the twenty-three cities to supply themselves with this service. This price is only \$2.79 greater than the average charged by * all the private companies, large and small, in the twelve states covered by the tables, and cannot be regarded as due to exceptional conditions. Most of the contract prices given for the private lamps still obtain, and therefore the two tables fairly represent the present relative costs under municipal and private control. The number of hours each plant was operated is given in the tables for the benefit of those who care to make a more detailed comparison.

COMPARISON OF THE PRICES CHARGED FOR THE SAME SERVICE.

This comparison of city and private plants of equal arc light capacity is the fairest that can be made, excepting, perhaps, that between the cost of the same light under the two systems. Fortunately, even this test can be applied, as several of the cities now owning works were, previously to assuming control, furnished with light by private corporations. Until March, 1889, the city of Elgin, Ill., paid local companies at the rate of \$266.66 per arc light per year for service with which it now supplies itself for less than one quarter of this sum. Municipal electric lighting costs Lewiston, Me., only one third, and Galveston, Tex., one half the contract prices these cities formerly gave to private companies. Bangor, Me., saves \$100 per light by the change, and so on. If the reports of the mayors of various cities having had such an experience are to be believed, the change has in every instance brought more efficient service, with one or two exceptions due to special and temporary causes.

WHY MUNICIPALITIES FURNISH LIGHT MORE CHEAPLY THAN COMPANIES.

Many of the municipal electric lighting plants are operated in connection with municipal water-works, and this is one of the chief reasons why cities furnish themselves with light more cheaply than private companies perform this service. By unit-

*The list given in the government report on gas and electric lighting was taken at the basis of calculation.

ing these two services the running expenses of the plant are made comparatively light. One building often suffices for both water and lighting plants, and the same power is utilized. Several cities have found it necessary to add only two or three employees to the water-works force.

Then, too, the municipal plant is not operated for profit, while the prices of the private companies are regulated to yield a return on the investment. Often the item of profits represents the only difference between the cost of municipal and private electric lighting.

But even if companies could do the lighting as cheaply as municipalities, it is a doubtful question whether or not they would. Electric lighting is one of the services the rates of which are practically precluded from the regulating influence of competition. On account of the limited number of companies that can operate in the same territory at the same time, free and natural competition is made impossible. Rival companies occupying the same field may induce a temporary lowering of the price, but the causes which render competition inoperative make easily possible a combination of the one, two, or three companies, and no one needs to be told that in the end, if not at the time, the consumer pays for the multiplication of engines, dynamos, lines, and linemen.

The facts and statistics presented in this paper do not introduce any new principle for municipal action. They only emphasize what has already been demonstrated a hundred times by experiment, — that pursuits which from their very nature are natural monopolies cannot be so economically administered by private corporations as by the government.

TABLE I.

Cities operating electric lighting plants.	Number of arc lights, 2,000 candle power.	Period of illumination.	Total cost of plant, including buildings.	Cost per arc light per year.
Little Rock, Ark.....	111	Eight hours.....	\$35,000	\$54.00
Aurora, Ill.....	81	Seven h. 36 min.	43,000	66.69
Bloomington, Ill.....	240	All night.....	80,000	50.00
Decatur, Ill.....	61	Dark nights.....	21,000	49.18
Elgin, Ill.....	80	Ten hours.....	23,000	43.00
Moline, Ill.....	80	All night.....	21,000	53.00
Paris, Ill.....	60	Seven hours.....	9,600	40.00
Madison, Ind.....	85	Moon, all night..	25,000	58.50
Topeka, Kan.....	184	All night.....	50,000	97.50
Bowling Green, Ky....	60	Moon, all night .	15,000	50.00
Bangor, Me.....	140	All night.....	35,000	45.00
Lewiston, Me.....	100	Moon, all night..	15,000	54.75
Bay City, Mich.....	143	Moon, all night..	30,000	58.00
Ypsilanti, Mich.....	80	Moon, to 1 A. M..	24,000	23.60
St. Joseph, Mo.....	208	Eight hours.....	55,000	72.00
Galion, Ohio.....	73	Moon, all night..	23,000	(Est.) 35.00
Marietta, Ohio.....	65	Dark to midnight	13,000	38.00
Chambersburg, Penn..	62	Six hours.....	34,500	45.00
Easton, Penn.....	82	All dark nights .	20,000	87.00
Meadville, Penn.....	74	Seven hours.....	20,000	47.43
Titusville, Penn.....	60	Ten hours.....	9,000	(Est.) 40.00
Galveston, Tex.....	175	Seven hours.....	40,000	87.00
Staunton, Va. (1,200 candle power.)... ..	50	Ten hours.....	17,000	24.00

Average cost per light per year of arcs operated by twenty-three cities	\$53.04
Interest and depreciation at 12 per cent total cost of plant and buildings of twenty-three city owned electric lighting works, per light	33.60
Total average cost per light	<u>\$86.64</u>

TABLE II.

Cities supplied by private companies.	Number of arc lights. 2,000 candle power.	Period of illumination.	Contract price per arc light per year.
Texarkana, Ark.....	31	All night.....	\$160.00
Danville, Ill.....	80	As ordered.....	80.00
Jacksonville, Ill.....	71	Moon, all night.....	96.00
Joliet, Ill.....	121	All night.....	124.00
Peoria, Ill.....	233	Moon, all night.....	145.00
Springfield, Ill.....	130	Moon, all night.....	137.00
Streator, Ill.....	60	All night.....	96.00
Kokomo, Ind.....	56	All night.....	100.00
Logansport, Ind.....	85	Moon, all night.....	100.00
Arkansas City, Kan.....	35	To 12 P. M.....	72.00
Fort Scott, Kan.....	75	Moon schedule to 1 A. M.	80.00
Owens-borough, Ky.....	32	Moon schedule to 1 A. M.	110.00
Augusta, Me.....	68	Nine hours.....	76.33
Bath, Me.....	31	To 1 A. M.....	125.00
Grand Rapids, Mich.....	120	All night.....	109.50
Lansing, Mich.....	100	Moon, all night.....	100.00
Kansas City, Mo.....	128	All night.....	200.75
Sedalia, Mo.....	92	Moon, all night.....	87.00
Springfield, Mo.....	54	Moon, all night.....	136.00
Bellaire, Ohio.....	52	Moon, all night.....	90.00
Tremont, Ohio.....	70	All night.....	90.00
Hillsborough, Ohio.....	63	Moon, all night.....	70.00
Allentown, Penn.....	98	All dark nights.....	100.00
Lebanon, Penn.....	60	To 12 P. M.....	80.00
Newcastle, Penn.....	50	All night.....	80.00
South Bethlehem, Penn.....	55	Moon to 12 P. M.....	81.82
Dallas, Tex.....	165	All night.....	95.85
Houston, Tex.....	92	All night.....	150.00
Parkersburg, Va.....	58	All night.....	102.00

Average cost per light per year of arcs operated by twenty-nine private companies, \$106.01.

Note. — All night, 10¼ hours. Moon, all night, 6 hours. Till 12 o'clock, 5½ hours.

QUOTATIONS
FROM
MISCELLANEOUS SOURCES.

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A WARNING.

Out of the office the man was thrown,
And down a couple of flights of stairs;
He had no business of his own,
And he would'nt let others attend to theirs.

— *New York Press.*

I would again renew last year's recommendation relative to procuring maps of the whole city, so that the work of the assessors' department may be done more accurately. I believe that in case maps were made, the returns to the city would more than offset the outlay, as is exemplified in cities where they are in use. By means of maps a great amount of property may be discovered which for years has escaped taxation.

I again recommend that industrial education or manual training be made a part of the school system to a greater extent than it is now. The character of our industries, the trend and necessities of our times, make this requirement obligatory. This kind of an education is now given in our high school, but it should be extended to the grammar grade also. The larger number of scholars never reach the high school, yet it is essential that they should enjoy the benefits of manual training, especially as so many of them will devote their energy, in the future, to industrial pursuits. — *From City Report of Fall River, Mass., for 1891.*

The actual needs of a rapidly increasing community like ours, which every one will acknowledge to be pressing, far exceed our ability to pay for them. It sounds well to talk of less expenses and lower taxes, but the problem in city governments is not to expend less money for the public welfare, protection, and improvement, but how to raise more revenue with which to conduct the public business without imposing additional burdens upon the taxpayers or increasing the municipal debt. City debts

and expenses are increasing rapidly and constantly all over the world. In fifteen years, taking fourteen of the largest cities in the United States, city expenses in them average to increase 363 per cent, while the population averaged to increase only 70 per cent. The population in Lynn since 1855 has increased nearly four times, while the city expenditures are more than twenty-three times as much. In ten years the expenses of Vienna have doubled, in Florence trebled, and in Paris city expenses increased from 83 to 196 million francs. It is evident, from their constantly accumulating debts, that the present revenue system in use in cities is inadequate to meet the demands that are being made upon it. Our system of municipal taxation, devised in all its essential features three centuries ago, has not been changed, while nearly every department that depends for development and support upon this system of taxation has undergone very important changes.

City expenditures are more liable to increase than decrease ; indeed, this must be the tendency. We all desire better schools, better roads and sidewalks, to take better care of our poor and unfortunate, to be more reasonable and liberal in our treatment of the insane, to establish a better condition of public health, and to advance in the ways of civilization. All this requires money. The question is, how to get it.

There is no political side to the great problem of municipal revenue. It is a matter of business, and has an important economic aspect which presents one of the most difficult public questions of our time.

It is true that the municipal water debts are very large indeed. Fully 39 per cent of the municipal indebtedness in Massachusetts is for water loans ; but indebtedness is not a source of anxiety providing the income derived from the money borrowed when invested will yield a greater income than the rate of interest paid. This is true of public or private business. I am of the opinion that the general policy pursued in the management of public water supplies might be profitably extended to other municipal departments.

The present method of buying supplies for the city appears defective. While I am unable to find any legal authority empowering committees to purchase supplies without the direct authority of the city council, it has generally been the custom, and there is practically no check upon the contraction of bills against the city. It is true that bills contracted by committees may not be approved, or the mayor may refuse to draw a warrant on the city treasurer for their payment, but this power can only

be exercised after the bills have been contracted, and it would be a question for the courts to determine whether or not parties selling to the city could not recover the amount of their bills, even in case of the refusal referred to. No private corporation, however limited its business, would allow bills to be contracted against it in this indiscriminate manner. It is estimated that the supplies for the city of Lynn cost annually \$250,000. I recommend the election of a purchasing agent by the city councils, who shall be placed under suitable bonds. The purchasing agent shall not purchase supplies without the contract or bargain therefor being approved by the committee on finance of the city council, and said committee shall approve all bills contracted by him. This recommendation may be carried into effect in other and better ways perhaps, but everyone must see that it would save delays and money to have some system and checks in the buying of city supplies.

Industry and attention count for as much in public life as elsewhere. We owe it to those who have elected us, we owe it to the city, and we owe it to ourselves, to discharge our duties with dignity and diligence, being swerved neither by hope of applause or the fear of criticism from that which in our judgment is the plain line of public duty.—*From City Report of Lynn, Mass., for 1891.*

The tenure of office of our police commissioners begins to-day. In my opinion Gov. Tuttle and his council are entitled to great credit for their selection of this board. The gentlemen appointed are all men of high character, and of experience which particularly fits them for these difficult positions; without reflection on other candidates for commissioners, I think their appointment meets the general approbation of our best citizens. Their duties are the most difficult of any part of our public service. To appoint a police force satisfactory to every citizen is an impossibility; it never has been and never will be done. The main object of the police commission bill is to divorce this department from politics, to select the officers with reference to ability, and to maintain a tenure of office that will attract to this service good men and keep them there. Rules for the proper government of such a body are necessarily strict, and of a military character. Such rules were impossible to frame under our old system of appointments. Hence by no possibility could any police force of the past attain the efficiency which I confidently expect under the new order of things.

In this connection it is necessary for us to understand that it is a financial impossibility for this or any other city to lay out

and grade new streets in all directions, many of them to develop private property, and have money left to properly maintain and beautify the highways we already have. In my opinion, now is the time, and this board of aldermen is the body, to call a halt in unnecessary street grading. By the above term, I mean all streets not clearly for the benefit of the general public should be graded at the expense of the individuals through whose land they run, and not by the tax-payers in general.

A street for the "benefit of the public" should be one laid out and graded for the benefit of the whole public, not for the immediate abutters or a very few persons residing in the immediate vicinity.

The great argument in favor of laying out and grading all streets petitioned for has been, "Lots are sold, houses are built, and they are taxable property brought into existence."

I fail to see how this argument has further force. Plenty of streets are now opened so that a person wishing a house lot can procure one in any direction. In fact, I think the streets already laid out are sufficient for a city of 30,000 inhabitants or more. Private land should be developed at the expense of the owners, and when the street is graded, or nearly so, it is time to ask the city to accept it.

It is hard to overestimate the importance of good streets and roads, well cared for and kept in good condition. With a view to improvement I am of the opinion that much more crushed stone should be used than in the past, not only on our streets but on our country roads. Nashua has grown and is now growing very rapidly. That growth should be encouraged, and especially should an effort be made to make our city a larger business center for the surrounding country. I know of few better ways to do this than to give the people surrounding us easy access to our city by first-class roads.

Quite a radical change took place in this department last year. In place of the election of a so-called superintendent of sewers by the political party in power at the time, and who often has been a man unfamiliar with this most difficult work, the work on sewers has all been done under contract, and I think, all things considered, in a most satisfactory manner. By restricting the bidders to citizens of Nashua, and placing the minimum limit of wages at a fair figure for those employed in the work, money has been kept at home, and the city has had the benefit of every dollar expended, while the contractor has made a profit. The work done under the supervision of the city engineer has been first-class and of a permanent character.

Not the least feature in this method of sewer construction is the immunity of the city from risk of accident, a bond being given by the contractor to assume all liability in such cases.

The engineering department may well be spoken of in connection with the streets and sewers.

I consider this one of the most important offices in the gift of the city, and one that should forever be kept out of politics, as it has been in the past. More money can either be saved or lost through the capabilities of the city engineer than through the ability of any other city official. Early in 1891 a proposition was made to the city councils to adopt a set of assessors' maps, their advantage being conceded by all. Engineers from another city estimated the cost at about \$10,000, and the time three years for completion. At the suggestion of our city engineer the work was undertaken by the city, and under his direction with this result: April 1. 1892, will see nearly half, and the worst half, of our city on paper, and in shape for the assessors. Mr. Burley estimates that the maps can be completed by April, 1893, at a cost of \$4,500, which sum includes all notes made, which was not the case with the \$10,000 estimate. I urge upon you the importance of continuing the work on the same lines and of retaining our present city engineer.— *From City Report of Nashua, N. H., for 1891.*

As one most important duty will be to watch the details of expenditures so as to reduce taxation, and at the same time see that appropriations are so applied as to obtain the most benefit, I would call your attention to what I have deemed a valuable suggestion from prominent tax-payers looking to a consolidation of the offices of civil engineer and the street commissioner, abolishing the latter and placing it under the control of the civil engineer. The reasons for this proposed change will in due time be laid before you or the proper committees.— *From City Report of Portland, Me., for 1891.*

I am firmly of the opinion that a great improvement in the form of our city government and the election of its members could be made, and one that will save to the city several thousands of dollars every year, and I will offer it as a suggestion for you to consider, of the advisability of asking of the next legislature the right to change our form of city government to one of one board only, which shall be composed of three members from each ward, or twenty-one in all, who shall be elected to serve three years, electing one third of that board, or one from each ward, each year.

You will readily see that you would then have a majority of the city government at all times who would be experienced in the city affairs, and as a large part of the important business for the year is done at the very first meetings of the new city government, you can easily see how important it is to have experienced men in the board. I believe the work could be done much more expeditiously and at a great saving of expense in running the city, and I believe it would place the city affairs far above the influence of private parties, and instead of the city government being a schoolroom, so to speak, or the stepping-stone to men's political ambition, it would be more of a business institution, and run more closely upon business principles.— *From City Report of Bangor, Me., for 1891.*

In presenting to you a proposition to reorganize the legislative branches of the city government by placing the administration of the municipal affairs in one board, I anticipate that my recommendation will meet with opposition. This opposition will arise mainly from those who object to so radical a change from long established usage, and also from others who seek political preferment and position without due regard for the duties which that position in the city government imposes.

The prevailing idea that a dual legislative body is necessary for the proper administration of the fiscal, prudential, and municipal affairs of a city, with the conduct and government thereof, has existed so long that it is hard for many to believe that they can be vested in one legislative body and better results obtained.

From a personal experience in the common council, and after careful observation and thoughtful consideration of the subject in all its different phases, I am unqualifiedly of the opinion that that branch of the city government can be done away with and the legislative authority vested in one body.

I have frequently expressed my conviction of the desirability of abolishing the common council as a co-ordinate branch of the city council, deeming it entirely unnecessary and not in accord with the principles recognized by business men in the control and management of private corporations.

The government of the municipality should assimilate, as near as possible, to that of a well organized private corporation, and its affairs should be conducted upon the same general principles. No well organized private corporation, however large, is managed by dual boards of direction, and no one thinks that an organization upon such a plan would be either beneficial, econom-

ical, or necessary. Why, then, should it be thought necessary in the management of a municipal corporation?

I am informed that a few eastern cities, and many in the more progressive West, have but a single legislative body for the administration of their fiscal, prudential, and municipal affairs, and the good reports from these fully justify the wisdom of such an organization. The problem of how best to conduct a municipal government is one which requires broad and comprehensive consideration, and one of the ways to aid in the solution of that problem, in order to obtain the best results, is to divorce the legislative body from political affiliations and place its management upon a business basis.

I therefore recommend that you make an application to the general assembly which shall so amend the charter of the city as to provide for the abolishment of the common council, and also for biennial elections for the mayor and the members of the legislative branch which with him will compose the city council. When that is done, the mayor should be given broader executive powers and authority than is possible under the present organization of the government, and the council which is associated with him be made more of a board of direction.

There is a widespread feeling that the city of Providence has entered upon an era of great industrial progress and commercial activity which will result in a large increase in wealth and population. It is my belief that if our business men and legislators will each do their part to assist the onward movement, the census of 1900 will show this city to be in the first rank of American municipalities. Whatever will tend to promote its growth and prosperity should be urged forward, and undue conservatism in the management of municipal affairs ought not to be permitted.

Questions involving the improvement of commercial relations, the furnishing of better means for more rapid transit, the security of health and property, and the extension of educational benefits, should be met and discussed with comprehensive views. Petty and selfish interests ought not to be allowed to interfere with the determination of questions which have for their purpose the benefit of all the people alike, if this city is to prosper in the future.

Progress should be the watchword of a city which already possesses the advantages of a beautiful situation, a temperate climate, a water supply pure and abundant, well-kept highways having a reputation extending far beyond the borders of New England; private and public schools unrivalled, where the poor man's son can traverse the several grades, even beyond the high school and into one of the first universities in the land, and at a nominal

expense ; industries flourishing and diversified, where the most famous steam engines, the best locomotives, and the finest machines and machine tools are made ; a city within which and its environs are located many of the largest and most successful cotton and woolen mills in the country, the most extensive jewelry manufactories, and the largest silverware plant in the world. These are some of the advantages which should make our city a favorite place for investment and residence. Just how far the city council can properly go in the direction of making the city better known abroad along the above lines, and seeking to attract new enterprises hither, after the manner of progressive cities of the great West, is a question worthy of your consideration, and one in which you should not allow traditional conservatism to clog the wheels of legitimate progress.—*From City Report of Providence, R. I., for 1891.*

FIRE DEPARTMENT AND FIRE LOSSES.

Before the joint special committee of the city council of Boston, Mass., Mr. Atkinson entered into a very comprehensive discussion of the fire department of Boston, and the question of fire losses generally.

As president of a factory mutual insurance company carrying risks of over \$100,000,000, with but four risks in Boston, he considered that he dealt with the commercial part of the city from an impartial standpoint in what he might have to say.

The fire losses of the present year, he said, were likely to amount to \$150,000,000 in the United States, and the cost of sustaining the insurance companies will not be less than \$65,000,000, and fire departments an additional \$35,000,000, or a total fire tax of \$250,000,000 a year. In other words, the fire tax was equal to between 10 and 20 per cent of the net profits of the whole nation in a prosperous year.

He did not consider the business section of the city rightly guarded and protected by the city government, and the fire department was not as efficient as it should be, nor as well organized.

The great majority of the buildings, he said, were not properly constructed with a view to the hazard of fire, the owners not doing what they should do for themselves.

The area of the fire district of Boston is comprised in 145 acres, with \$100,000,000 of property in its limits, the insurable value standing at about that figure. During the past ten years the losses have been \$10,000,000.

It follows, therefore, that the average rate of insurance on property within that district should have been throughout that period at least $1\frac{1}{2}$ per cent, or \$1,500,000 a year, to cover losses and expenses, even without profits.

While not intending to criticise the fire department, Mr. Atkinson said that the whole service of the city of Boston is one of the most complete examples of how not to do the work effectually that could possibly have been invented.

Any great business enterprise undertaken on such a disorganized system would fail once a year.

The fire commission hold a position that should be held by one strong, comprehensive man, capable of supervising the whole work and enforcing its right execution. I would choose a man, he said, who by natural aptitude and capability of directing other men, would become a major-general in the army in a very short period. Only such a man is fit for the service. In my judgment the chief of the fire department should be the inspector of buildings, because it is with a view of safety from fire and to the saving of life that the inspector is required.

Every district or assistant chief should be qualified to act as an inspector of buildings in his district. The Dunne fire escape is an example of the inefficiency of the fire service. I myself pointed out the worthlessness of this device on the school building to the mayor of the city, and it was referred to him by the inspector of buildings. Why has it not been remedied? The lives of the school children to-day are at a hazard on account of the criminal negligence of some of the city officers, unless a remedy has been very recently applied.

Mr. Atkinson criticised the handling of the Webster fire on Summer street, where, he said, nine streams of water were wasted because the fire was in the rear instead of the front, where the engines were directing the water.

He said, in speaking of the Brown, Durrell & Co. building that it was fitted throughout the upper stories with fire shutters. The big windows in the lower story were not protected. For some inscrutable and unknown reason, the building act does not require shutter protection on the lower story, and the owners take advantage of the act without regard to their own responsibility. The fire did not pass into the Brown, Durrell & Co. building, however, through those lower windows. It did pass through windows above, the shutters of which were not closed. One of my employees saw it and timed it.

Had the Boston fire department been organized according to what I should deem a suitable manner, the first duty of a dele-

gated body of the firemen who reached the building would have been to enter it and close those shutters, in which case the building would probably have been saved.

Had that building been a factory, under the factory mutual supervision, the employees would themselves have been organized for that purpose.

In a Lynn factory, the great Lynn fire was stopped at a building in which the shutters were closed by the employees, who then kept them cool and prevented the fire from coming through the cracks with buckets of water and brooms.

No one doubts the individual capacity and bravery of the fire department. Witness Assistant Engineer Egan's experience on the roof of the Brown-Durrell building.

I observed that in dealing with other witnesses you called for statements that the witnesses had derived from other persons. It happens that several of our most experienced men were present at this last fire, and they concur with me in the judgment of an apparent lack of habit on the part of the men in working under definite direction.

My observation of that fire is this: The general directions given by Acting Chief Reagan for the disposition of the apparatus must have been excellent. The lack of organization was indicated by the apparent want of method and previous instruction and discipline; and that, I think, is the sum and substance of the objection to the present fire organization.

The most terrible element of hazard in these Boston buildings, in my judgment, is to be found in the great open stairways and open areas in buildings that are filled with combustible merchandise. There are buildings in this city of many stories in height which I have charged my family not to enter above the lower story, because although nominally even fireproof, the smoke and heat of a fire originating in the lower stories may at any time cause a fearful disaster to the crowd in the upper stories, so rapid might be the upward extension of the heat and flame generated by the mere combustion of the contents of such buildings.—*Boston Herald*.

A SIGNIFICANT COMPARISON.

An insurance expert in England has been recently making a careful examination into the average rates of premium paid in the different countries in which the English fire insurance companies do business, with results that have an interest to us in Boston, in view of our recent experiences and the apparent unwillingness of fire insurance organizations to take large risks even

at what seem to be high rates. This expert, after a careful examination, states that the average rates on all classes of risks in the several countries referred to are as follows, the amounts given representing payment for \$100 of insurance protection :

France	8 cents.
Germany	15 "
England	25 "
Australia	36 "
Austria	38 "
Russia	61 "
The United States	100 "

We have no means of determining the accuracy of these statistics, except the experience of the United States, and here we should say that the rate has been slightly under rather than over estimated. In Boston there is about \$330,000,000 of insured property, and the annual premium receipts are not far from \$3,000,000, which would imply an average rate of a little less than \$1 per hundred. But it is generally understood that the rates in Boston have been lower than in a great many other parts of the country, and if that is the case the estimate of the English expert may be a little under the mark.

But what is of especial interest to us is the regular rate at which property is insured in different countries of Europe, where the profits of insurance are quite as great as they are in America. In France this average rate of eight cents, which includes what is paid by manufacturers of all classes, is far below what is considered prudent to charge for the very best risks in this country. It is said that with us certain brick dwelling-houses have been insured at as low a price as eight cents per annum, but it is an exceedingly exceptional event, and is about one half the usual charge, and would imply that in France the liabilities to loss by fire in dwelling-house risks must be exceedingly slight, for in order to get the average they must be written at hardly more than two or three cents per annum per \$100.

This result is attained in France largely by approved construction, for there, at least, the climate does not differ materially from our own. In England, where the rates of insurance are about one quarter of what they are here, the diminution in loss may be partly due to the dampness of the atmosphere and the little use in winter of those means of heating the interior of houses, which with us have the effect of drying woodwork so as to make it exceedingly inflammable. Building construction in England is not much better than it is in this country ; but

the interiors of the buildings in the English cities are much more moist than they are here, and furnish very much less opportunity for a speedy extension of flames.

In Germany and Austria, and presumably in Australia, the conditions of climate are not widely different from those as we find them; hence their relatively small fire losses must be due to the greater precaution taken in so constructing their buildings that a fire occurring within one of them does not extend readily to other parts of the same structure or permit of an extension to adjoining buildings.

Perhaps no better illustration than this can be given of the immense advantage to be derived by carefully prepared and thoroughly enforced building regulations. The amount of premium paid to the fire insurance companies in the United States for protection against loss is certainly not less than \$200,000,000 a year. Now the same amount of protection could be obtained at the premium rates charged in France for \$16,000,000 a year, which would constitute a saving to the community of \$184,000,000 per annum. That this saving is made is due simply to the fact that fires do not occur. In France this may be partly occasioned by the restrictive laws which make a property owner or his tenant personally responsible if a fire upon his premises injures the property of another. This leads to the introduction of many safeguards, and an amount of prudence which would not be thought of here. But all this constitutes a saving of created wealth, by means of which the community is made better and more prosperous. If our country were not as wealthy as it is, if it did not possess its great natural resources, and if our people were not so energetic and hard-working, the drain that we now impose upon ourselves, which is more than equal to the tax of the standing armies and navies of any of the great military nations of Europe, would inevitably tell severely upon our national welfare. — *Boston Herald*.

CIVIL SERVICE REFORM.

True democracy means, as Abraham Lincoln expressed it, "Government of the people, by the people, and for the people." Public office, bestowed either by the people directly or through their chosen servants is, therefore, necessarily a "public trust." It is instituted not for the benefit of the office-holder, nor for the benefit of his party, but for the benefit of the people. The people are evidently entitled to the best service they can get, and those who are intrusted with the power of appointing officers are, there-

fore, in duty bound to appoint only persons fit to give the people the best possible service. They can discharge this duty only by selecting persons for office according to their fitness for the service to be rendered. The most faithful observance of this principle will also secure to every man aspiring to public employment his rightful chance, for every man will have a chance according to his merit, and not according to his "pull." This is genuine democratic doctrine.

In fact, nothing more undemocratic can be imagined than a system of appointment to office by favor. It rules out the good citizen who is poor and without friends, however great his personal merit may be. It yields a decisive advantage to him who has power at his back. It takes from office the character of duty and gives it the character of reward. It bestows this reward not for services rendered to the people, but for services rendered to a political party or to some influential politician. It thus transforms political contests that should turn upon questions of public interest into scrambles for plunder. It enables politicians to sustain themselves in public life by building up an influence through the organization of place-hunters. It thus fills legislative halls and executive positions with small selfish schemers and drives away from public life men of conviction, of the pride of ability, and of high aims. It degrades the character of the office-holder, for it makes him a dependent on the favor of an influential patron instead of a man standing upon his own merit as a servant of the people. It promotes in politics a vulgar aristocracy of influence and an irresponsible despotism of bosses and machines.

It is true, the belief that the distribution of offices as rewards is necessary to hold political parties together is still entertained by many. It is a humiliating belief, for it is based upon the assumption that the American people would cease to take an interest in their own interests if they were not stimulated by the expectation of individual pay for their zeal. It is a demoralizing belief, for it brings forth appeals to the lowest order of motives. Fortunately it is an unfounded belief. We do not deny that there are many mercenary persons engaged in American politics, but we do deny that there would be an end of American politics if the greed of these mercenary persons were systematically disappointed. The gaps caused by their disappearance from the field would quickly be filled by men whom their prominence had driven away in disgust. It is a notorious fact that the larger the number of offices grows the less they are an element of strength to a political party. And the more the party in power treats the offices as spoils, the greater an element of weakness they become.

A journal in the West wisely remarks, "If Congressmen from the different states openly organize themselves into patronage boards, they will probably be convinced of their mistake by the returns of the next congressional election." He is the best citizen who is the most strenuous opponent of the aristocracy of influence, and the most earnest advocate of an equal chance for all, according to merit. And this means civil service reform. — *Harper's Weekly*.

THE MAIN BUSINESS OF A CHURCH.

I believe that it is the primary duty of churches and ministers to apply themselves to the problems of practical morals that confront them in society to-day. The main business of a church is to build up pure and noble manhood and womanhood; to purify society; to show up vice in all its hideous deformity; to unmask its covert forms; to make men hate it, so that they shall wage a perpetual war against it in all its phases.— *Rev. W. H. Ramsay*.

THE PROHIBITORY LAW, LICENSE SYSTEM, POLICE COMMISSION, AND LIQUOR TRAFFIC.

To begin with, we have the farce of state prohibition. I fear I shall hurt the feelings of my prohibitionist friends, but I can't help that. I respect the convictions of the genuine, sincere prohibitionist, who is bravely fighting for a principle, the application of which he believes is going to regenerate the world. I shall not discuss the abstract principle of prohibition now; it is a matter upon which honest people differ widely. But apart entirely from its theoretical aspect it has not been successful in large cities anywhere, so far as I can learn; quite the contrary. The prohibitionists are simply playing into the hands of the liquor dealers; their pretended friends have no faith in the movement and simply adopt their method because it serves their own ends more effectually. The prohibitionist in New Hampshire is the unwilling dupe and ally of the liquor dealer. Both of them are agreed that there shall be no license — the one sincerely and from conviction, the other because it is money in his pocket. Nevertheless, I am fully convinced that the most effective method of dealing with the evils arising out of the drink business in a city like Manchester, with its promiscuous population, composed so largely of foreign elements, uneducated in our more enlightened American ideas about the use of intoxicants, is a sys-

tem of high license, just as high as it can be put, this side of prohibition.

This method would serve several good ends : First, it would compel the liquor dealer to pay his legitimate share of the taxes which his traffic entails ; secondly, it would, I believe, secure decenter and better kept saloons, where the concomitants of gambling and prostitution would be shut out ; and, thirdly, it would close up the hundreds of miserable rumholes that now flourish in kitchens and cellars and bogus groceries all over the city, because those who paid a high fee for the privilege of selling liquor would see to it that their business was not infringed upon by illicit dealers. In connection with this, I would advocate the centralizing of the entire business within a short radius from the police station, where it would be under the supervision and control of the police. It has been argued that while good for cities and large towns such a system would be demoralizing to country villages. By no means. The law should be permissive. Local option would provide for places where the sentiment is now strong enough to shut out saloons. Where such sentiment does not exist those who wish for liquor can always obtain all they want.

But even as the law stands to-day it is absolutely certain that we could have a vastly better condition of things but for the inefficiency of our present control. This is due, in great measure, to the influence of party politicians and others, who are interested in keeping things as they are. This kind of influence and interference is an incidental evil growing out of the mistaken principle upon which city charters were framed in the past. Professor Bryce makes this fact very clear in his magnificent work on the "American Commonwealth." "Charters were framed," he says, "as though cities were little states. Many of the mistakes which have marked the progress of American cities up to this point have sprung from that defective conception. The aim deliberately was to make a city government where no officer by himself should have power to do much harm. The natural result was to create a situation where no officer had power to do much good. Meanwhile bad men united for corrupt purposes, and the whole organization of the city government aided such in throwing the responsibility from one to another." We are only learning now, after years of bitter experience, that cities are not so much little states as large corporations.

In all our great business enterprises we are shrewd enough to understand that, for their effective management, power and responsibility must go together. All effective reforms in municipi-

pal government that have taken place in this country have proceeded upon this principle. I can but hail the recent decision by our state legislature to put the appointment and government of the police in this city into the hands of a board of commissioners as a step in the right direction. The success of the movement will, of course, depend entirely upon the character of the men who are appointed. But it will have this good effect, any way: It will free the city marshal and police from the control of local political bosses and corrupt politicians, who have hitherto hindered all efforts towards a proper control of the saloon business.

The city directory gives us a list of about sixty saloons. As a matter of fact there are nearly four hundred places where liquor is known to be sold, besides a host of kitchens and cellars where the most disreputable kind of business is carried on.

Another obstacle in the way of reform in our city is the fact that many of the buildings in which the worst business is carried on are owned by men and women to whom the evil is a source of large revenue and who have not moral grit enough to do their duty. In some cases they are, possibly, ignorant of the facts. However this may be, the evils of this drink business, as it is conducted now, are appalling.

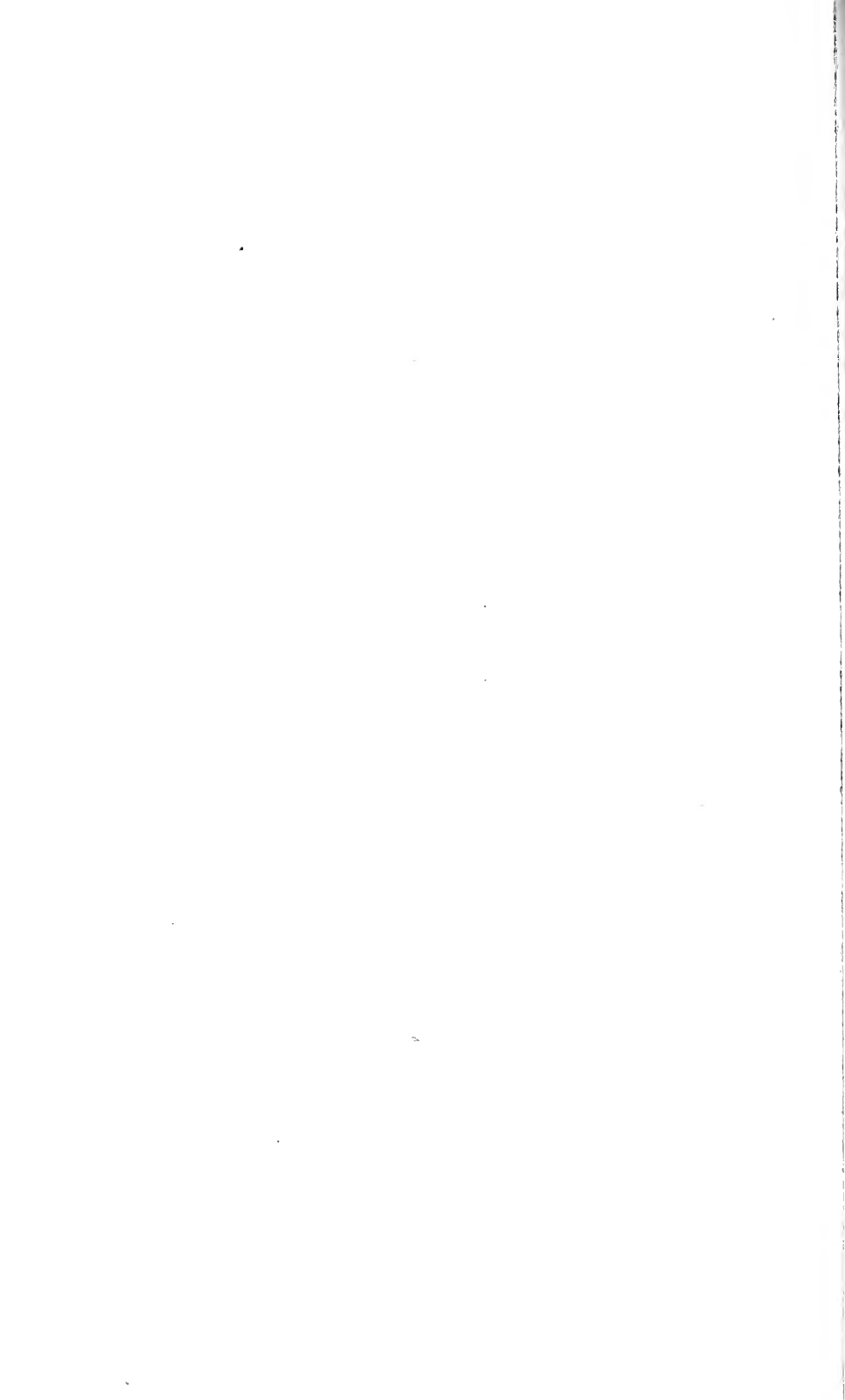
Last year there were 2,264 arrests, and out of these nearly 1,600 were what are vulgarly known as "drunks." Seven hundred of those paid the regulation fine of \$7.62, making a total of \$6,000 in round numbers. This money came from those who could least afford to pay it. For the families of those men it meant greater poverty, thinner clothes, thinner blankets, and a diminishment of the necessaries of life. Besides this misery that has come to the surface in the police court, there is a vast amount of demoralization and vice that is eating at the heart of hundreds of homes.

What is needed greatly in our city to-day is a higher and better tone in the general public sentiment on this question. If those who believe in reform, in decency, and public morality will only unite their forces an immense deal can be done towards abating these evils.

Nothing ever comes right of itself, either in politics or morals, or social economy. If an evil exists anywhere it can only be righted by a return to the principles of right behavior. The evils of dirt and bad ventilation will, if left alone, scourge a city with small-pox, and typhus, and cholera. Human society is an organism, bound together by a network of the most delicate relations. Touch one part of it and you touch it all. The atmos-

phere of a vile cesspool will pollute a whole city, and send its deadly vapors into all homes, without respect of persons. So will a moral cesspool. The atmosphere of an impure or vicious man or woman infects and curses the life of a community. "No man liveth unto himself and no man dieth unto himself." The only way to deal with any evil that infects the world is bravely to attack it, wrestle with it, and strangle it.—*Rev. W. H. Ramsay.*

REPORT OF THE CITY AUDITOR.



REPORT OF CITY AUDITOR.

To the City Councils :

GENTLEMEN,— The Auditor herewith submits to your honorable body his third annual report.

WORK OF THE OFFICE.

There have been made during the year the usual examinations of the treasurer's accounts, 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 superintendents of Pine Grove and Valley cemeteries, and of the treasurer of the cemeteries, annual examination of the accounts of the superintendent of the city farm, monthly examination of the accounts of the weigher at the city scales, quarterly examinations of the accounts of city marshal, semi-annual examination of the account of the clerk of the police court.

Five thousand two hundred and seventy-six bills against the city have been examined and certified as "correct." All the pay-rolls for the twelve 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 \$981,174.81, have been drawn on the city treasury.

Accounts have been kept with all the appropriations, with the treasurer, and the tax collector.

Eight recommendations, fourteen ordinances and resolutions, and fifteen orders have been typewritten in this office for use of

committees, etc.; also forty-three letters, one message (three copies), one communication to city government, thirty-two circulars and other papers for the Mayor; fifteen and one half hours' work for the city engineer, and four hundred and twenty-four letters, communications, and miscellaneous papers for the auditor. The City Report for 1892 is compiled by the auditor as required by the ordinance.

Mr. Allan E. Herrick left the employment of the city as auditor's clerk, after a service of two years and five months, to accept a situation in the counting room of the Amoskeag Manufacturing Company, at an increase of salary. Miss Lizzie M. Cogswell of this city is employed as his successor.

FINANCIAL.

Quite a large saving has been effected by the city during the last two years by the repeal of the ordinance allowing a discount to tax-payers. This discount (which was at the annual rate of six per cent on taxes paid in advance of December 1, when ten per cent interest could be legally charged) resulted in giving to the city a large sum in advance of their immediate wants, and this large balance remained on deposit in sundry banks, the city receiving no interest whatever on it.

During the year 1890, the total of discounts and money paid on temporary loans was \$11,820.82. In 1891, the amount paid in lieu of discounts on temporary loans was \$4,459.34. In 1892, it was \$3,772.14, which on the same valuation and rate of tax as in the year 1890 has made a saving to the city of \$15,410.16 in their interest account during the two past years.

Should the city adopt the plan of placing its money in that bank which will pay the highest interest on its average deposits, a still further deduction in its interest account would be manifest.

The amount paid to the People's Gas-Light Company, for gas consumed by the police department in 1890, was \$742.60. In April, 1891, the Electric Company contracted with the city to

furnish twenty-eight electric lights at the police station for twenty-eight dollars per month. The financial result was as follows :

Paid in 1891, People's Gas-Light Company	\$280.98
Electric Company	216.57
	<hr/>
Total	\$497.55
Paid in 1892, People's Gas-Light Company	\$61.18
Electric Company	354.67
	<hr/>
Total	\$415.85

Showing a reduction in expense, in 1891, of \$245.05, and in 1892, of \$326.55 as compared with the expense of lighting in 1890. The same economy exercised in relation to the lighting of the engine-houses and other public buildings would produce a desirable shrinkage in the expense.

EXPENDITURES.

The amount of the appropriation for auditor's department was	\$2,000.00
There was expended for salary of auditor	\$1,000.00
There was expended for salary of clerks	711.90
There was expended for supplies	218.17
Balance	69.93
	<hr/>
	\$2,000.00

The auditor returns his thanks to the Mayor and the city councils and heads of departments for their uniform courtesy and kindness.

Respectfully submitted,
 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, 1892, and find proper vouchers for all payments, and all receipts are duly accounted for.

The net cash on hand January 1, 1892, was	\$93,190.14
Receipts during the year	984,461.85
	<hr/>
	\$1,077,651.99
Amount of drafts during the year	\$981,174.81
Net cash on hand December 31, 1892	96,477.18
	<hr/>
	\$1,077,651.99

The cash balance taken December 31, 1892, I find to be as follows :

Deposited in Suffolk National Bank	\$8,070.00
First National Bank	202.56
Second National Bank	11,600.25
Manchester National Bank	20,285.07
Amoskeag National Bank	21,891.30
Merchants National Bank	14,212.66
National Bank of the Commonwealth	24,372.91
Granite State Trust Company	68.02
office safe	23,872.76
	<hr/>
Gross amount of cash on hand	\$124,575.53
Deduct amount of bills unpaid	28,098.35
	<hr/>
Net cash on hand December 31, 1892	\$96,477.18

The accounts for the year ending December 31, 1891, 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 weigher at the city scales, have each and all been carefully

examined and the income from these sources, as shown by the said books, 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, 1892	\$130,033.09
bonds sold Adams, Blodget & Co.	100,000.00
premium on bonds sold	2,178.00
temporary loan	150,000.00
city hall, rents	2,556.00
John B. Clarke Co., overdraft	2.00
one half costs and fines in seven milk cases	350.00
C. W. Strain estate, land sold	446.53
J. R. Hanson estate, land sold	786.62
E. F. Jones, costs in Lavantine case	16.00
Kimball Carriage Co.	12.48
J. A. Weston and others, settlement of suit	400.00
John Ferguson, settlement of suit	200.00
Marion J. Parsons, land sold	377.00
William Stearns, overdraft	3.00
F. X. Chenette, old building	12.00
E. F. Jones, City <i>v.</i> Dowd, settlement of suit	26.05
F. C. Dow, use of road roller	18.50
Solon A. Carter, diseased cattle	4.00
Freeman Higgins, settlement of suit	10.50
Herbert S. Clough, for Hobbs and Maynard	22.38
Allen Chisholm, overdraft	9.00
John J. Lyons, Lake avenue schoolhouse	2,800.00
Patrick Finn, overdraft	2.62
Timothy Sullivan, overdraft	2.25
Lewis Baker, overdraft	5.25
M. Noland, overdraft	1.88
Edward Foster, overdraft	8.63
Wadleigh Hardware Co., overdraft	24.88
Sanborn Carriage Co., overdraft	3.00
Head & Dowst Co., crushed stone	90.00
John N. Chase, chopping block	12.00
Frank A. Dockham, lamp post	10.00
	<hr/>
<i>Amount carried forward</i>	\$390,423.66

*City of Manchester, year ending December 31, 1892.**Cr.*

By unpaid bills January 1, 1892	\$36,842.95
interest on temporary loans	3,772.14
on water bonds	31,069.00
on city bonds	15,929.00
on cemetery bonds	925.48
payment funded debt	99,900.00
temporary loan	180,000.00
city hall	2,193.60
printing and stationery	2,239.62
incidental expenses	29,753.76
mayor's incidentals	221.80
city officers' salaries	17,154.18
city auditor's department	1,930.07
highway district No. 1	620.50
" " " 2	11,925.39
" " " 3	361.24
" " " 4	485.32
" " " 5	774.46
" " " 6	484.46
" " " 7	1,515.61
" " " 8	991.16
" " " 9	491.83
" " " 10	4,460.46
" " " 11	1,368.28
" " " 12	497.12
new highways	24,038.08
land taken for new highways	11,601.73
watering streets	3,988.43
paving	7,540.11
macadamizing	16,083.83
grading for concrete	5,564.90
scavenger teams	15,555.31
street sweeping	1,293.79
<i>Amount carried forward</i>	<i>\$531,573.61</i>

Dr. Sylvanus B. Putnam, Treasurer, in account with the

<i>Amount brought forward</i>	\$390,423.66
To F. H. Webster, sewer pipe	23.40
J. P. Russell, sewer-pipe	20.00
P. O. Woodman, sewer pipe	2.85
Oliver B. Green, sewer pipe	6.48
A. G. Savory, sewer pipe	1.94
Gordon Woodbury, sewer pipe	36.00
T. A. Lane Co., sewer connections	25.40
Head & Dowst Co., one grate	2.46
William Corey, labor entering sewer	14.50
Bartlett, Gay & Young	100.00
Boston & Maine R. R., overdraft . . . . .	.60
Portland Stone Ware Co., rebate on freight	20.40
sewer licenses	3,126.05
Ginn & Co., overdraft	11.95
W. E. Buck, text-books sold	150.59
Henry S. Reed, overdraft	8.34
Stark Mills, overdraft	1.00
New England Telephone and Telegraph Co., moving poles	4.00
H. W. Longa, police department	90.97
Michael J. Healy, police department	8,206.90
John C. Bickford, police department	1,415.70
B. D. Luce, overdraft	2.00
rent of tenements	574.97
water-works, receipts	83,474.79
B. A. Stearns, superintendent Pine Grove cem- etry	2,011.68
S. B. Putnam, lots sold, Pine Grove cemetery	2,696.90
C. H. G. Foss, superintendent Valley cemetery	1,800.00
board of paupers off the farm	1,192.93
Dodge & Straw, overdraft	1.60
L. M. Streeter, superintendent city farm	2,458.11
<i>Amount carried forward</i>	\$497,906.17

City of Manchester, year ending December 31, 1892.

Cr.

<i>Amount brought forward</i>	\$531,573.61
By lighting streets	38,746.31
bridges	3,133.68
city teams	6,129.08
sewers and drains	39,724.65
engineers' department	4,160.61
health department	2,424.01
repairs of schoolhouses	4,952.26
fuel	4,297.40
furniture and supplies	634.57
books and stationery	299.73
printing and advertising	333.75
contingent expenses	1,227.99
care of rooms	4,050.77
evening schools	973.93
teachers' salaries	54,660.36
mechanical drawing school	405.15
free text-books	3,489.31
city library	4,868.44
fire department	42,262.88
fire-alarm telegraph	1,269.62
firemen's parade	441.55
police department	40,405.28
repairs of buildings	2,892.75
new schoolhouse, Hallsville	8,845.61
addition to Goffe's Falls schoolhouse	2,000.00
engine house and ward room, ward 9	870.00
water-works, construction	29,410.93
water-works, repairs	15,756.42
water-works, current expenses	4,778.00
commons	3,726.64
Stark park	1,500.25
Pine Grove cemetery	7,361.26
<i>Amount carried forward</i>	\$867,606.80

Dr. Sylvanus B. Putnam, Treasurer, in account with the

<i>Amount brought forward</i>	\$497,906.17
To insurance tax	4,199.25
railroad tax	25,849.65
savings bank tax	78,101.94
literary fund	6,010.88
city scales	521.12
tuition	414.22
milk licenses	66.50
Jeremiah Sullivan, overdraft	1.13
Joseph Bushey, overdraft	9.00
cemetery bonds sold	1,150.00
show licenses	266.00
dog licenses	2,060.97
billiard table licenses	400.00
interest on taxes	514.13
taxes for the year 1885 . . . . .	.79
" " " 1887	1.70
" " " 1888	3.90
" " " 1889	9.85
" " " 1890	98.31
" " " 1891	22,583.91
" " " 1892	474,325.52
	<hr/>
	\$1,114,494.94
Unpaid bills January 1, 1893	28,098.35
	<hr/>
	\$1,142,593.29

City of Manchester, year ending December 31, 1892.

<i>Amount brought forward</i>	\$867,606.80
By Valley cemetery	2,982.85
receiving tomb	295.22
Derryfield park	500.05
East Manchester cemetery	99.35
Amoskeag cemetery	178.09
paupers off the farm	5,726.94
city farm	8,259.17
indigent soldiers	261.46
Women's Aid Hospital	500.00
Elliot Hospital, free beds	900.00
decoration of soldiers' graves	321.75
militia	900.00
abatment of taxes	2,794.53
state tax	65,615.00
county tax	61,076.55
	<hr/>
	\$1,018,017.76
Cash on hand January 1, 1893	124,575.53
	<hr/>
	\$1,142,593.29

**STATEMENT OF THE RECEIPTS AND EXPENDI-
TURES OF THE CITY OF MANCHESTER, N. H.,
FOR THE YEAR 1892.**

Receipts.

CENTRAL DEPARTMENT.

Received from :

Direct city taxes	\$435,947.43	
Cost and interest on taxes	514.13	
	\$436,461.56	
Licenses to enter sewer	\$3,126.05	
Licenses to keep dog	2,060.97	
Licenses to sell milk	66.50	
Licenses to keep billiard table	400.00	
Licenses to shows and exhibitions	266.00	
	5,919.52	
Rents	3,130.97	
	\$445,512.05	

STREET AND SEWER DEPARTMENT.

Received from city scales \$521.12

SCHOOL DEPARTMENT.

Received from text-books and tuition \$576.76

POLICE DEPARTMENT.

Received from court fines and costs \$9,715.57

PUBLIC PLACES.

Received from :

Pine Grove cemetery	\$4,708.58	
Valley cemetery	1,800.00	
	\$6,508.58	

WATER-WORKS.

Gross receipts \$83,474.79

CHARITABLE, PATRIOTIC, AND PHILANTHROPIC.

Received from :

City farm	\$2,458.11	
Hillsborough county, boarding pau- pers	1,192.93	
	<u> </u>	\$3,651.04

MISCELLANEOUS.

Received from :

Judgments recovered	\$950.00	
Premium on bonds sold	2,178.00	
Land sold	1,610.15	
Sale of Park-street schoolhouse and lot	2,800.00	
Other miscellaneous sources	575.52	
	<u> </u>	\$8,113.67

Total ordinary receipts during the year 1892 \$558,073.58.

TEMPORARY LOAN.

Received from loans in anticipation of tax of 1892 \$150,000.00

STATE.

Received from :

Insurance taxes	\$4,199.25	
Railroad taxes	25,849.65	
Savings bank taxes	78,101.94	
Literary fund	6,010.88	
	<u> </u>	\$114,161.72

COUNTY.

Received from direct tax on city property . . . \$61,076.55

BONDED DEBT.

Received from :

Water bonds sold	\$100,000.00	
Cemetery bonds sold	1,150.00	
		<u>\$101,150.00</u>
Gross receipts	\$984,461.85	
Net cash on hand January 1, 1892	93,190.14	
		<u>\$1,077,651.99</u>

Expenditures.

*Salaries of superintendent, school committee, and truant officer transferred from city officers' salaries and carried to school department.

† Transferred from incidental expenses to the following: Watering streets; \$563.86; highway districts, \$671.42; schoolhouse lot, West Manchester, \$2,490; hose house, South Manchester, \$684.48; furniture and supplies, \$172.20; schoolhouse repairs, \$42.75.

CENTRAL DEPARTMENT.

Interest.

Paid interest on water bonds	\$31,069.00	
interest on city bonds	15,929.00	
interest on cemetery bonds	925.48	
interest on temporary loan, anti- cipation tax, 1892	3,772.14	
		<u>\$51,695.62</u>
Paid city hall	\$2,193.60	
printing and stationery	2,239.62	
incidental expenses*	25,129.05	
mayor's incidentals	221.80	
city officers' salaries †	14,124.18	
city auditor's department	1,930.07	
		<u>\$45,838.32</u>

STREET AND SEWER DEPARTMENT.

Paid highway district No. 1	\$620.50
highway district No. 2	11,925.39
highway district No. 3	361.24

Paid highway district No. 4 . . .	\$485.32
highway district No. 5 . . .	774.46
highway district No. 6 . . .	484.46
highway district No. 7 . . .	1,515.61
highway district No. 8 . . .	991.16
highway district No. 9 . . .	491.83
highway district No. 10 . . .	4,460.46
highway district No. 11 . . .	1,368.28
highway district No. 12 . . .	497.12
incidental expenses* . . .	671.42
new highways	24,038.08
land taken for highways . . .	11,601.73
watering streets*	4,552.29
paving streets	7,540.11
macadamizing	16,083.83
grading for concrete	5,564.90
scavenger teams	15,555.31
street sweeping	1,293.79
lighting streets	38,746.31
bridges	3,133.58
city teams	6,129.08
sewers and drains	39,724.65
	<hr/>
	\$198,611.01

ENGINEER'S DEPARTMENT.

Paid engineer's department	\$4,160.61
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HEALTH DEPARTMENT.

Paid health department	\$2,424.01
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SCHOOL DEPARTMENT.

Paid repairs of schoolhouses* . . .	\$4,995.01
fuel	4,297.40
furniture and supplies	806.77
books and stationery	299.73
printing and advertising	333.75
contingent expenses	1,227.99

Paid care of rooms	\$4,050.77	
evening schools	973.93	
teachers' salaries	54,660.36	
salaries school committee, clerk, truant officer †	1,030.00	
salary of superintendent †	2,000.00	
evening school mechanical draw- ing	405.15	
free text-books	3,489.31	
	<u> </u>	\$78,570.17

CITY LIBRARY.

Paid city library	\$4,868.44
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FIRE DEPARTMENT.

Paid fire department	\$12,262.88	
fire-alarm telegraph	1,269.62	
firemen's parade	441.55	
	<u> </u>	\$43,974.05

POLICE.

Paid police department	\$40,405.28
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PUBLIC BUILDINGS.

Paid repairs of buildings	\$2,892.75	
addition Goffe's Falls schoolhouse	2,000.00	
new schoolhouse, Hallsville	8,845.61	
engine-house and ward-room, ward 9	870.00	
schoolhouse lot, West Manches- ter*	2,490.00	
hose house lot, South Manches- ter*	\$684.48	
	<u> </u>	\$17,782.84

WATER-WORKS.

Paid water-works, construction	\$29,410.93	
repairs	15,756.42	
current expenses	4,778.00	
	<u> </u>	\$49,945.35

PUBLIC PLACES.

Paid commons	\$3,726.64	
Stark park	1,500.25	
Derryfield park	500.05	
Pine Grove cemetery	7,361.26	
Valley cemetery	2,982.85	
receiving tomb	295.22	
East Manchester cemetery	99.35	
Amoskeag cemetery	178.09	
	<u> </u>	\$16,643.71

PATRIOTIC, CHARITABLE, AND PHILANTHROPIC.

Paid paupers off the farm	\$5,726.94	
city farm	8,259.17	
indigent soldiers	261.46	
Women's Aid and Relief Hospi- tal	500.00	
free beds, Elliot Hospital	900.00	
decoration soldiers' graves	321.75	
militia	900.00	
	<u> </u>	\$16,869.32

ABATEMENTS.

Paid abatement of taxes	\$2,794.53	
Total of ordinary municipal expenditures		\$574,583.26

TEMPORARY LOAN.

Paid loan made in anticipation of tax for 1892	\$180,000.00
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BONDED DEBT.

Paid water loan (re-funded)	\$99,900.00
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STATE AND COUNTY TAXES.

Paid state tax	\$65,615.00	
county tax	61,076.55	
	<u> </u>	\$126,691.55

Grand total of expenditures during the
year \$981,174.81

Cash on hand December 31, 1892	. \$124,575.53	
Less unpaid bills	. . . . . 28,098.35	
Net cash on hand	. . . . .	<u>\$96,477.18</u>
		\$1,077,651.99

Interest.

Appropriation	. . . . . \$51,500.00	
Transferred from reserved fund	. . . . . 195.62	
		<u>\$51,695.62</u>

EXPENDITURES.

Paid National Bank of the Commonwealth, discount on two notes of \$25,000 each, six months twenty-six days, at $3\frac{3}{8}$ per cent	. . . . . \$925.27	
National Bank of the Commonwealth, discount on two notes of \$50,000 each, six months three days, at $2\frac{5}{8}$ per cent	. . . . . 1,334.37	
Granite State Trust Co., one year three days' interest on note of \$30,000 due December 1, 1892, at 5 per cent	. . . . . 1,512.50	
coupons on water bonds	. . . . . 31,069.00	
coupons on city bonds	. . . . . 15,929.00	
coupons on cemetery bonds	. . . . . 925.48	
		<u>\$51,695.62</u>

RECEIPTS

No.	Date	Particulars	By Cash		By Cheque		By B.O.D.	By Other	Total	Balance	Total	By Cash	By Cheque	By B.O.D.	By Other	Total	Balance	Total	By Cash	By Cheque	By B.O.D.	By Other	Total	Balance
																				
180	1911	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
181	1911	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

EXPENDITURES

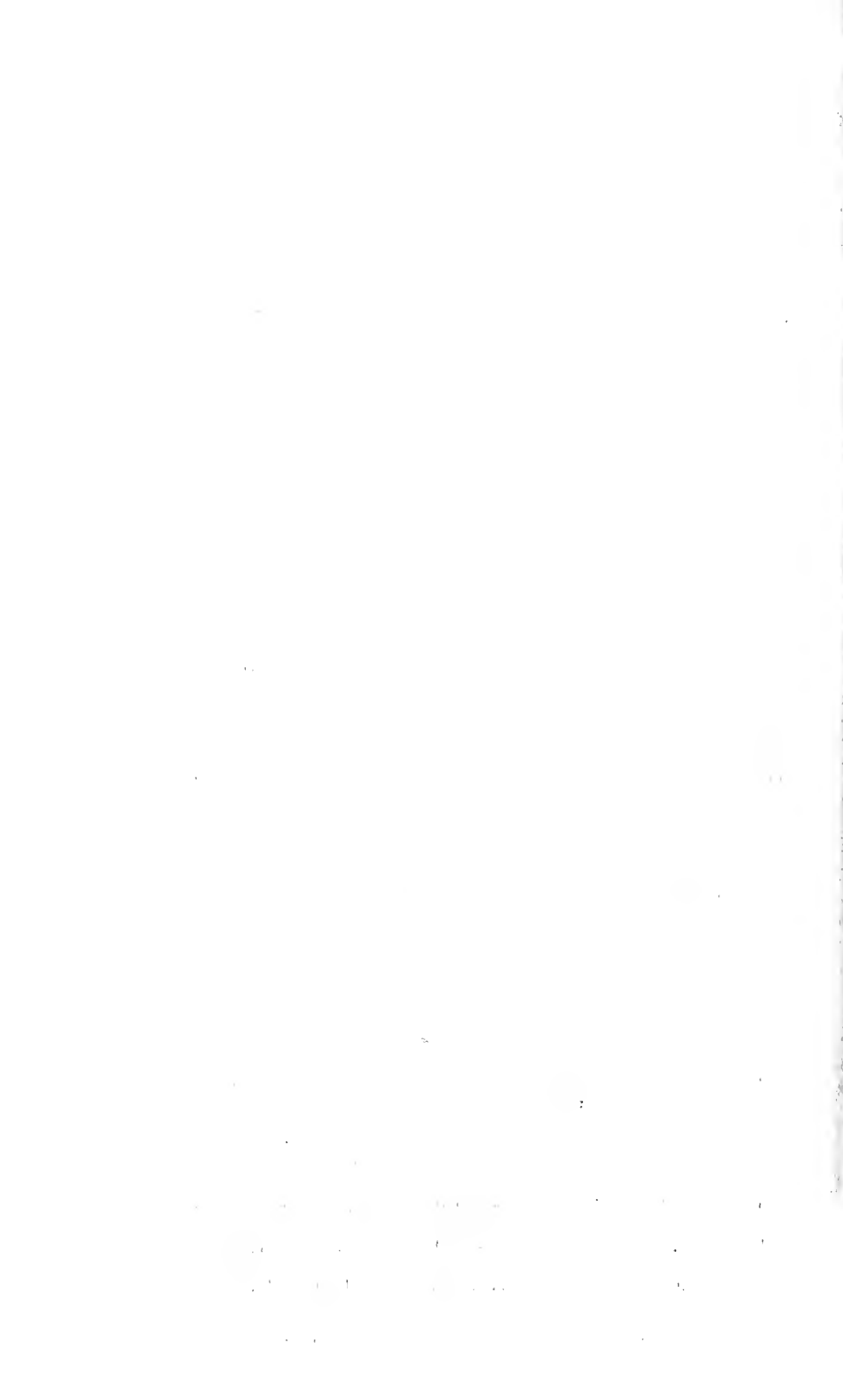
No.	Date	Particulars	By Cash		By Cheque		By B.O.D.	By Other	Total	Balance	Total	By Cash	By Cheque	By B.O.D.	By Other	Total	Balance	Total	By Cash	By Cheque	By B.O.D.	By Other	Total	Balance
																				
180	1911	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
181	1911	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

For the year ending 31st December 1911, the total receipts are \$1,000,000 and the total expenditures are \$950,000, leaving a balance of \$50,000.

EXPENDITURES - CONTINUED

No.	Date	Particulars	By Cash		By Cheque		By B.O.D.	By Other	Total	Balance	Total	By Cash	By Cheque	By B.O.D.	By Other	Total	Balance	Total	By Cash	By Cheque	By B.O.D.	By Other	Total	Balance
																				
182	1911	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
183	1911	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

For the year ending 31st December 1911, the total receipts are \$1,000,000 and the total expenditures are \$950,000, leaving a balance of \$50,000.



Payment of Funded Debt.

RECEIPTS.

Received from sale of bonds, refunded	\$100,000.00
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EXPENDITURES.

Paid water bonds, redeemed	\$99,900.00
bond outstanding (carried to new	
account)	100.00
	<hr/>
	\$100,000.00

Reserved Fund.

RECEIPTS.

To appropriation	\$20,000.00
transfers from the following accounts:	
Mayor's incidentals	\$78.20
Auditor's department	69.93
Highway district No. 2	74.61
" " " 4	14.68
" " " 5	25.54
" " " 6	15.54
" " " 8	8.84
" " " 9	8.17
Macadamizing streets	1,916.17
Grading for concrete	500.00
Lighting streets	1,253.69
Bridges	500.00
Health department	75.99
Repairs of schoolhouses	47.74
Fuel	202.60
Furniture and supplies	165.43

Books and stationery	\$0.27	
Printing and advertising	66.25	
Evening schools	226.07	
Teachers' salaries	1,339.64	
Evening schools, mechanical drawing	194.85	
Free text-books	10.69	
Fire-alarm telegraph	130.38	
Firemen's parade	58.45	
Water-works, construction	589.07	
" repairs	1,243.58	
" current expenses	222.00	
Valley cemetery	17.15	
East Manchester cemetery . . . . .	.65	
Receiving tomb, repairs	54.78	
Goffe's Falls cemetery	100.00	
Indigent soldiers	738.54	
Cash on hand not otherwise specifically appropriated	38,598.34	
		<u>\$48,547.84</u>
		\$68,547.84

EXPENDITURES.

By transfers to the following accounts:

Interest	\$195.62
City hall	93.60
Printing and stationery	39.62
Incidental expenses	14,753.76
City officers' salaries	1,454.18
Highway District No. 1	320.50
" " " 3	161.24
" " " 7	15.61
" " " 10	460.46
" " " 11	368.28
" " " 12	197.12
New highways	14,038.08

Damage for land taken for highways .	\$2,601.73
Watering streets	988.43
Paving streets	2,040.11
Grading for concrete	1,064.90
Scavenger service	4,555.31
Street sweeping	93.79
Bridges	1,133.68
City teams	1,129.08
Sewers and drains	9,724.65
Engineer's department	160.61
Contingent expenses	27.99
Care of rooms	50.77
Fire department	3,262.88
Police department	3,105.28
Repairs of buildings	392.75
New schoolhouse, Hallsville	743.66
Commons	726.64
Stark park . . . . .	.25
Pine Grove cemetery	761.26
Amoskeag cemetery	78.09
Derryfield park . . . . .	.05
Paupers off the farm	726.94
City farm	759.17
Elliot Hospital, free beds	300.00
Addition to Goffe's Falls schoolhouse	2,000.00
Decoration of soldiers' graves	21.75
	————— \$68,547.84

Temporary Loan.

RECEIPTS.

To appropriation	\$30,000.00
Received from National Bank of the Commonwealth, on two notes dated May 5, 1892, due De- cember 1, 1892	\$50,000.00
from National Bank of the Commonwealth, on two notes dated June 1, 1892, due De- cember 1, 1892	100,000.00
	150,000.00
	\$180,000.00

EXPENDITURES.

Paid Granite State Trust Co., note dated Sept. 1, 1891, due Dec. 1, 1892	\$30,000.00
National Bank of the Common- wealth, two notes dated May 5, 1892	50,000.00
National Bank of the Common- wealth, two notes dated June 1, 1892	100,000.00
	\$180,000.00

City Hall.

Appropriation	\$2,100.00
Transferred from reserved fund	93.60
	\$2,193.60

EXPENDITURES.

PUBLIC COMFORT.

Paid Head & Dowst Co., materials and labor	\$74.12
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Paid M. J. Coleman, materials and labor	\$139.51	
Sargent & Corson, materials and labor	25.79	
C. E. Lord, masonwork and stock	1.95	
Manchester Heating & Lighting Co., 15 lbs. mop waste	3.75	
	<hr/>	\$245.21

FUEL AND LIGHTS.

Paid L. B. Bodwell & Co., 37,840 lbs. egg coal	\$118.25	
L. B. Bodwell & Co., 1/2 cord hard wood	2.50	
Dunlap & Wason Coal Co., 87,580 lbs. egg coal	260.55	
Moore & Preston, 1/2 cord slabs	2.25	
J. G. Jones, three barrels and sawdust	1.20	
People's Gas-Light Co., for gas	302.12	
The Electric Company, electric lights	38.60	
Manchester Electric Light Co., 16,000 watts at 22 cents	3.20	
	<hr/>	\$728.67

LABOR.

Paid labor men and teams, as per pay-roll, district No. 2	\$5.38
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TELEPHONE.

Paid New England Telegraph and Telephone Co., use of telephones	\$75.96
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SUNDRIES.

Paid George H. Richter & Co., 2 dozen long document files, for city clerk's office	\$24.75
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Paid J. H. Wiggin, $\frac{1}{4}$ gross matches	\$0.12
The John B. Clarke Co., printing 22,000 receipt blanks	22.00
Manchester Hardware Co., toilet paper . . . . .	.10
Weston & Hill Co., matting and zincing ends for city clerk's office	4.01
John A. Barker, extra night ser- vices	20.00
Mary Shiney, $55\frac{3}{4}$ hours' labor, at 20 cents per hour	110.15
M. P. Barker, making awning for city treasurer's office	10.00
Peter Harris, 1 key and repairing lock	1.25
A. M. Eastman, soap, matches, brooms, etc.	4.36
J. K. Rhodes, services as city mes- senger one week	12.25
Manchester Heating & Lighting Co., 15 lbs. mop waste	2.25
L. M. Aldrich, labor and materials	4.77
The Kitchen, 2 tumblers for col- lector's office . . . . .	.16
J. S. Holt, 10 gallons soap	1.25
E. H. Currier, 203 lbs. Babbitt's potash . . . . .	.40
John J. Holland, allowance on bill for painting and decorating drug- store in 1891	90.00
Pike & Heald, ash hod and pail	2.65
Pike & Heald, repairs on roof	234.37
Pike & Heald, plumbing	23.28
Head & Dowst Co., labor and ma- terials, sundry repairs	38.99
C. H. Wood, painting 3 tin signs, ladies' toilet	1.50

Paid S. C. Austin, repairing rods on building	\$10.00
J. Y. McQueston, 1 No. 7 glass, 20 x 12	2.00
James R. Carr, 19 lights glass and setting same	4.75
D. J. Adams, fitting 4 keys . . . . .	.50
Thomas A. Lane :	
labor and materials, gas-pipe in hall	2.80
6 Beacon shades in treasurer's office	2.10
50 ft. hose, 1 hose nozzle, and 2 sets couplings	6.15
material and labor on water-closets	2.98
material and labor on boiler	11.29
material and labor in treasurer's and assessor's office	8.79
material and labor, various offices	18.06
Sanborn Carriage Co., blade on slice bar	2.00
Whitten & Fifield, teams for city messenger	8.00
John K. Wilson, shelves and door in city engineer's office	7.00
The John B. Varick Co., glue, snow scraper, twine, rope, dusters, brooms, hose, toilet paper, waste basket, etc.	19.37
M. J. Coleman, material and labor, repairs on pipes	43.27
Water-works, use of water to Oct. 1, 1892	354.30
Charles A. Hoitt & Co., 4 chairs for rooms of aldermen and councilmen	20.00

Paid Charles A. Hoitt & Co., re-seating chairs	\$1.20	
Charles A. Hoitt & Co., re-caning 5 chairs	4.50	
J. G. Jones, freight and cartage on document files . . . . .	.80	
	<hr/>	\$1,138.47
Total expenditures		\$2,193.60

Printing and Stationery.

Appropriation	\$2,200.00	
Transferred from reserved fund	39.62	
	<hr/>	\$2,239.62

EXPENDITURES.

ASSESSORS.

Paid The John B. Clarke Co., advertising annual meeting of assessors	\$12.33	
The John B. Clarke Co., printing 200 half-note circulars	4.50	
Temple & Farrington Co., 26 blank books	100.50	
Temple & Farrington Co., envelopes, pens, ink	10.42	
Temple & Farrington Co., stationery	8.99	
Temple & Farrington Co., 60 postal cards	1.10	
	<hr/>	\$137.84

TAX COLLECTOR.

Paid The John B. Clarke Co., advertising non-resident land sale	\$29.70	
The John B. Clarke Co., printing 5,000 receipt blanks	7.00	

Paid Novelty Advertising Co., printing 5,000 notices to tax-payers	\$7.50	
Paid Temple & Farrington Co.:		
12 pencils . . . . .	.40	
1 quire foolscap paper . . . . .	.25	
McGill's fasteners . . . . .	.25	
8 pass-books . . . . .	.40	
1 gross rubber bands . . . . .	.70	
1 index book . . . . .	.38	
6 pencils . . . . .	.25	
1 blank . . . . .	.25	
Blotting paper and penholders . . . . .	.80	
Paid Charles C. Clark, 6 blanks . . . . .	.50	
		<hr/>
		\$48.38

CITY CLERK.

Paid J. Arthur Williams :

Printing 300 blanks, petitions for high- ways	\$3.00
“ 2,000 blanks, return of deaths	5.75
“ 1,000 blanks, dog licenses	6.50
“ 300 rosters	15.00
“ 200 burial permits	1.10
“ 300 petitions	3.00
“ 300 envelopes, 2-cent stamp	7.50
“ 500 marriage certificates	4.00
“ 1,400 dog licenses, burial per- mits	8.25
“ 2,700 notices to jurors, etc.	8.75
“ 500 letter heads	2.25
“ 500 election certificates	3.25
“ 200 resolutions	4.00

Paid Temple & Farrington Co.:

1 blank book	12.00
1 canvas cover	1.25
1 blank book	4.40

Envelopes, ink, mucilage, rubber bands, seals, pens, blotting paper, lettering Public Statutes, postals, printing, and stationery	\$24.03	
Paid N. P. Kidder, cash paid for ink well	1.00	
	<hr/>	\$115.03

CITY TREASURER.

Paid Temple & Farrington Co.:		
1 receipt book	\$10.00	
1 account book	10.00	
2 canvas covers	2.50	
52 pay-roll sheets	5.45	
10,000 pay envelopes	7.50	
6 binding cases	2.52	
1 cash book	6.00	
1 canvas cover	1.00	
Mucilage, envelopes, ink, pencils, etc.	24.99	
Paid The John B. Clarke Co., printing		
pay-roll blanks	4.50	
The John B. Clarke Co., printing 86 cemetery bonds, etc.	23.50	
J. Arthur Williams, printing 2,000 order blanks	4.00	
J. Arthur Williams, 2,000 receipts and note circulars	5.00	
J. Arthur Williams, 300 postal cards and printing	3.90	
S. S. Piper, 100 2-cent postage stamps	2.00	
Novelty Advertising Co., set of bands for Atlas dater30	
	<hr/>	\$113.16

CITY AUDITOR.

Paid American Express Co., express on reports	\$22.01
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Paid Manchester post-office, postage	\$13.50	
Temple & Farrington Co., 500 envelopes	2.50	
Temple & Farrington Co., 100 payroll sheets	8.15	
Temple & Farrington Co., paste . . . . .	.10	
The John B. Clarke Co., printing 500 billheads	5.50	
The John B. Clarke Co., binding 2 volumes Census Bulletin	2.00	
The John B. Clarke Co., printing 800 billheads	9.00	
Manchester Hardware Co., 1 ball twine . . . . .	.15	
	<hr/>	\$62.91

CITY ENGINEER.

Paid A. S. Campbell & Co., printing 300 orders for supplies	\$1.75	
Temple & Farrington Co., 1 blank book	12.25	
Thomas H. Tuson, 300 postal cards and printing same	5.35	
	<hr/>	\$19.35

SUNDRIES.

Paid American Express Co., express on electrotypes	\$0.50
J. G. Jones, 4 hours' work delivering city reports	2.00
J. G. Ellinwood, photographs for city report of 1891	63.25
H. W. Herrick, services and expenses for city report	33.30
Kilburn & Cross, engravings and electrotypes for annual report of 1891	324.75

Paid H. C. Whitcomb & Co., electrotype of Derryfield park	\$1.15
W. P. Goodman, 1 box pens, mayor's office . . . . .	.40
William E. Moore, printing 1,000 letter and note heads for mayor	6.00
William E. Moore, letter heads, envelopes, etc., for mayor	9.50
Novelty Advertising Co., 200 letter blanks for clerk of common council	1.50
John B. Clarke Co., printing 1,500 copies city report for 1891, as per contract	1,092.25
John B. Clarke Co., advertising petition for discontinuance of highway and order of court thereon	8.25
John B. Clarke Co., binding 150 reports, full sheep	172.50
Manchester post-office, 300 2-cent stamps for mayor's office	6.00
Thomas H. Tuson, printing 100 postal cards for mayor's office	1.60
Thomas H. Tuson, 300 notices	2.00
Temple & Farrington Co., 6 weigher's books for city scales	18.00
	<u>\$1,742.95</u>
Total expenditures	\$2,239.62

Incidental Expenses.

Appropriation	\$15,000.00
Transferred from reserved fund	14,753.76
	<u>\$29,753.76</u>

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls, in
district No. 2 :

January	\$21.00	
February	45.75	
March	21.00	
April	77.13	
May	86.25	
June	142.62	
July	145.37	
August	181.48	
September	102.40	
October	171.00	
November	174.13	
December	73.40	
	<hr/>	\$1,241 53

Paid labor of men and teams, as per pay-rolls, in
district No. 7 :

January	\$7.00	
August	34.00	
	<hr/>	\$41.00

BIRTHS, MARRIAGES, AND DEATHS.

Paid O. D. Abbott	\$11.00
D. S. Adams	4.75
E. Bernier	13.25
Charles E. Dodge	17.50
Clarence M. Dodge	9.00
C. W. Downing	4.50
E. B. Dunbar	5.00
Charles Corey . . . . .	.50
N. L. Colby	25.00
J. A. Chevalier	44.50
E. B. Eddy	6.00

Paid J. G. Fortier	\$28.25
George Frechette	10.25
Eugene Fugiere	24.00
C. F. Flanders	34.00
L. M. French	11.50
John Ferguson	40.75
William Holland . . . . .	.50
Charles D. Hills	10.00
J. A. Jackson	11.50
M. E. Kean	15.50
N. G. Laberge	21.75
J. E. A. Lanouette	44.50
J. G. Lemaitre	23.00
J. D. Lemay	31.50
J. W. D. McDonald	12.00
A. D. Mackey	26.75
W. H. Morrison	11.50
Frederick Perkins	5.00
W. H. Pattee	3.00
J. L. Robinson	16.25
J. E. Roy	6.50
Neil F. Starr	2.00
C. B. Sturtevant	6.75
Gillis Stark	3.00
E. Sylvain	51.25
G. D. Towne	3.50
W. F. Templeton	7.25
Thomas Wheat	6.75
N. P. Kidder, fees for 985 births	147.75
N. P. Kidder, fees for 549 marriages	82.35
N. P. Kidder, fees for 1,049 deaths	157.35

 \$996.95

DAMAGES AND JUDGMENTS.

Paid D. S. Adams, surgical attendance on C. B. Clarkson	\$95.00
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Paid Burnham, Brown & Warren, attorneys, in settlement of Lee Big v. Manchester and Edwin Branch v. Manchester, personal damages	\$1,400.00
Wm. T. Bass, personal damages, falling on sidewalk on the south side of Hanover street between Beech and Maple streets . . .	25.00
Joseph Cram, injury to horse, wagon, and harness on Shirley Hill road, and in full for all claims .	50.00
Hattie D. Cram, personal injury on Shirley Hill road, and for all damages	925.00
Michael Collins, settlement of suit, personal injury	700.00
Celia Clark, on execution, personal injury	2,355.44
C. M. Dodge, damage to team .	25.00
G. H. Ellinwood, injury to horse on Merrimack street	25.00
Hannah Connor, suit settled by agreement	850.00
J. Mary Gendrou, suit settled by agreement	300.00
Bridget Hodgkins, suit settled by agreement	350.00
John J. Jones, damage to person on Laurel street	50.00
Nancy B. Morse, damage to person on Hanover street	224.00
Philomene Morin, personal injuries	375.00
William M. Parsons, on execution, personal injury	4,303.37
Honora Russell, personal injury, suit settled	350.00

Paid Mrs. Hiram Simons, damage to sleigh	\$25.00
Hiram Turner, damage to dog	10.00
Inez Tirrell, personal injury, on execution	2,071.08
Edward Wyman, personal injury, suit settled	350.00
Rodney Whittemore, personal injury, on execution	2,568.35
Elliot Hospital, board and nursing of Patrick Ford	8.00
Harper & Nichols, damage to wagon of Joseph Brooks	5.65
Mary Bouchard, damage to person on Park common	175.00
Mrs. D. H. Dickey, personal injury	30.00
H. M. Clough, appraised value of horse killed by order of State Board of Cattle Commissioners	5.00
	<hr/> \$17,650.89

LEGAL EXPENSES.

Paid D. S. Adams :	
Examination and services in case of Celia Clark	\$45.00
Examination and services in case of R. N. Whittemore	45.00
Examination and services in case of Inez Tirrell	35.00
Examination and services in case of Michael Collins	25.00
Paid Walter E. Abbott, witness fee, Lane v. Manchester	1.37
Charles E. Cheney, witness fee, R. N. Whittemore v. city	2.50

Paid A. M. Corning, witness fees and summoning in case of R. Whitte- more <i>v.</i> city	\$41.94
John F. Cassidy, sundry witness fees and travel in case of R. Whit- temore	25.72
J. G. Ellinwood, photographs for use in case of R. Whittemore	4.00
A. M. Foster, M. D., services in case of Mayhew <i>v.</i> city	10.00
L. B. How, M. D., examination as medical expert in case of Tirrell <i>v.</i> city	40.00
Paid Charles H. Hodgman :	
Serving notices in case of Clark <i>v.</i> city	1.62
Witness fees, travel, etc., for sundry persons in case of R. Whittemore <i>v.</i> city	17.15
In case of Inez Tirrell <i>v.</i> city	9.18
In case of Lane <i>v.</i> city	6.36
Paid E. F. Jones, paid T. D. Luce, trans- ferring and printing case, Parsons <i>v.</i> city	
E. F. Jones, paid J. B. Swift for serving notice, etc., in case of R. Whittemore <i>v.</i> city	1.50
E. T. James, for team, county com- missioners' hearing on Goffstown road	5.00
E. T. James, for team for J. F. Cas- sidy	2.50
H. E. Loverin, services in case of Clark <i>v.</i> city	15.00
H. E. Loverin, summoning witness- es in case of Whittemore <i>v.</i> city	9.90

Paid H. E. Loverin, fees and travel paid witnesses in case of Whittemore <i>v. city</i>	\$35.49
C. H. Little, services taking testimony at trial of Inez Tirrell <i>v. city</i>	5.00
Manchester Street Railway, use of barge for jury in case of Whittemore <i>v. city</i>	6.00
J. T. O'Dowd, expenses to Lowell and Edgeville in case of McCarthy <i>v. city</i>	6.65
Oscar Perkins, fees and services in sundry cases	5.00
Frederick Perkins, medical expert testimony in cases Clark <i>v. city</i> , Tirrell <i>v. city</i>	75.00
Daniel L. Stevens, serving notices in case of Lane <i>v. city</i> , Mayhew <i>v. city</i>	6.48
William Stearns, services in case of Nancy B. Morse <i>v. city</i>	6.00
Whitten & Fifield, team to Goffe's Falls for city solicitor	2.50
George D. Towne, medical expert testimony in case of Collins <i>v. city</i>	25.00
H. E. Loverin, services in case of Lane <i>v. city</i>	10.00
E. F. McQuesten, examination, testimony, and expenses in case of Whittemore <i>v. city</i>	100.00
John A. Bruce, services in case of Whittemore <i>v. city</i>	5.00
Paid T. D. Luce, clerk of supreme court : Costs Manchester petition to discontinue	2.00

Costs transfer and printing case Manchester petition	\$12.50	
Costs in case of Manchester <i>v.</i> Jenkins	3.25	
Costs entry case of Manchester <i>v.</i> Warren & Beede	1.20	
Paid Burnham, Brown & Warren, retain- er in case of Mayhew <i>v.</i> city	25.00	
D. A. Taggart, services and expens- es in case of Whittemore <i>v.</i> city	66.77	
Kimball Carriage Co., repairs on wagon of E. O. Murphy	4.00	
county commissioners of Hillsbor- ough county, fees and expenses in hearing in relation to old Bridge street	40.30	
J. H. Melton, fees as witness in the case of Clark, Tirrell, Mayhew <i>v.</i> City, \$1.37 each	4.11	
	<hr/>	\$812.99

CITY COUNCIL AND COMMITTEES.

Paid Union Publishing Co.:

Advertising proposals for sewer pipe, 2 squares, six times	\$7.00
Advertising proposals for engine-house, 3 squares, eleven times	13.75
Advertising dog licenses. 4 squares	26.00
Advertising proposals for collecting garbage, 3¾ squares, six times	13.12
Advertising proposals for stone culvert, 2½ inches, every other day, six times	9.60
Paid John B. Clarke Co., advertising:	
Proposals for engine-house, 2 inches, ten times	12.32
Proposals for collecting garbage, 5 squares, five times	10.50

Proposals for furnishing sewer pipe, 2 inches, six times	\$9.00
Proposals for stone culvert, 2¼ inches, five times	9.50
Proposals for coal, 2¾ inches, six times	12.38
Notice relating to dog licenses, 2½ inches, three weeks	21.25
Paid A. R. Ingham, twelve suppers for board of aldermen, laying out road	9.00
Jesse W. Truell, use of hacks for committees	35.00
E. T. James, use of carriages for committees	69.50
Edson C. Eastman, four copies Public Statutes of New Hampshire	12.00
W. J. Freeman, use of hacks	104.00
Benjamin Lenthier, advertising licenses "pour les chiens"	10.00
J. C. Nichols & Son, use of hacks	64.00
Robert J. Peaslee, services revising the City Ordinances	200.00
John B. Clarke Co., printing 500 copies City Ordinances	503.37
A. L. Jenness & Son, use of hacks, etc.	30.50
Novelty Advertising Co., one Champion dater for clerk of common council	2.25
Union Publishing Co., advertising proposals for coal, 4 squares, six times	14.00
Paid Press Printing & Publishing Co. :	
Proposals for wood and coal, 2½ inches, five times	6.13
Proposals for collecting garbage	5.62

Proposals for building stone culvert	\$5.83	
Proposals for building engine-house, ward 9	9.00	
Notice, "License your Dog"	15.87	
Paid Whitten & Fifield, use of teams for committee	24.00	
Whitten & Fifield, use of teams for city messenger	3.00	
John A. Barker, horse car fares	2.00	
"New Hampshire Post," advertis- ing dog licenses	4.50	
William E. Moore, postal cards and printing (death of Schimmel)	1.50	
William E. Moore, postal cards and printing (Columbus Day)	1.50	
William E. Moore, printing 1,000 note heads for Mayor	4.50	
	<hr/>	\$1,281.49

CITY LIBRARY.

Paid John A. Barker, care of boiler, etc.	\$133.50	
Robert Clark, work done in and around the city library building, cutting lawn, cleaning sidewalks, washing windows, etc.	56.70	
Head & Dowst Co., 4 feet half-inch pine, 4 feet half-inch whitewood . . . . .	.26	
Thomas A. Lane, repairing hose . . . . .	.20	
Thomas A. Lane, labor on boiler	5.00	
	<hr/>	\$195.66

DISEASED CATTLE.

Paid A. L. Dodge, examination of glan- dered horse (Bascomb)	\$4.00	
A. L. Dodge, examination of glan- dered horse (Dowd)	4.00	
H. Fox Davis, killing and burying horse of Fred Berry	3.00	
	<hr/>	\$11.00

CITY SCALES.

Paid L. B. Bodwell & Co., 500 lbs. stove coal	\$1.87	
L. B. Bodwell, 2 ft. mixed wood	2.00	
L. B. Bodwell, 3,000 lbs. coal	11.25	
A. T. Barr, testing and sealing scales . . . . .	.75	
John B. Varick Co., 2 dozen brass hooks . . . . .	.20	
	<hr/>	\$16.07

MILK INSPECTOR.

Paid John B. Clarke Co., advertising notice under section 11, chapter 42, Laws of 1883	\$4.75	
John B. Clarke Co., advertising notice of election, etc., 2 in., one time.	3.00	
Daily Press Publishing Co., advertising notice of election, etc., 2 inches, one time	1.50	
Daily Press Publishing Co., advertising notice under section 11, chapter 42, Laws of 1883	3.00	
J. Arthur Williams, printing letter-heads, postal cards, tags	6.40	
H. F. W. Little, cash paid for one copy of Public Statutes	3.25	
H. F. W. Little, cash paid for repairing lactometers, etc.	3.60	
	<hr/>	\$25.50

RELATING TO THE STREETS.

Paid James M. Crombie, for trees in commons and school yards	\$40.00
Head & Dowst Co., lumber and labor, boxing trees	46.11

Paid Head & Dowst Co., lumber and labor, sidewalk, Pembroke block	\$2.88
Merrill & Freeman, 2 bbls. lime, 1 bag salt, whitewashing tree boxes	2.52
F. S. Sloan, 9 hitching posts for Hallsville schoolhouse	8.00
Dana W. King, recording deeds and postage	3.09
Geo. Holbrook, labor, etc., on trees	77.85
Geo. Holbrook, clearing snow from buildings	21.50
H. W. Clapp, 3 fountains	300.00
Concord & Montreal R. R., freight on fountains	2.83
Pike & Heald, labor on fountain in West Manchester	129.27
Pike & Heald, labor on fountain at corner of Lake avenue and Elm street	131.76
D. C. Whittemore, use of land for road for the year ending April, 1892	20.00
Thomas A. Lane Co., labor lowering water-pipes	2.89
John Maynard, repairs on Paige and Fairbanks houses, damaged by blasting	16.87
Manchester Hardware Co., 21 lbs. manilla rope	2.73
M. E. Kean, pumping out water in barn cellar	3.00
S. C. Forsaith Machine Co., lumber, etc.	8.53
Simon Dodge, guide boards	2.50
Flint & Little, labor and materials for sign boards	22.95
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	\$845.28

ASSESSORS.

Paid Union Publishing Co., advertising notice, 3 squares, eleven times	\$13.75	
S. S. Piper, postmaster, 100 2-cent stamps	2.00	
Benj. Robinson, use of horse one day	1.50	
H. D. Lord, furnishing transfers of real estate for one year	12.00	
	<hr/>	\$29.25

TAX COLLECTOR.

Paid Republican Press Association, advertising non-resident tax, $4\frac{3}{10}$ squares	\$6.45	
J. C. Nichols & Son, use of team	7.50	
George E. Morrill, collector, taxes sold and purchased as agent for the city	643.19	
George E. Morrill, three months' labor as acting city treasurer (February, March, and April, 1892)	200.00	
David W. Craig, agent, one No. 45 Diebold safe	325.00	
J. W. Wilson, moving safe into office	8.00	
Concord & Montreal R. R., freight on safe	3.60	
George E. Morrill, expense of self and committee purchasing safe in Boston	11.62	
George E. Morrill, expense distributing tax bills	74.49	
Head & Dowst Co., labor in office	2.90	
Pike & Heald, 2 tin cases	1.40	
	<hr/>	\$1,284.15

POLITICAL EXPENSES.

Paid Manchester Heating and Lighting Co., 10 hand lamps for ward 1	\$2.00
David Thayer, labor arranging hall, etc., ward 3	7.00
Chas. A. Hoitt & Co., 1 table for ward 4	2.25
J. Y. McQueston & Co., 4 tables, 9 chestnut chairs, 1 light tepoy for ward 5	13.40
John Stewart, cleaning ward 5 ward room	5.00
The Electric Company, running lights, ward 9 ward room	3.00
G. H. Dudley, labor, etc., ward 2	3.25
Paid Head & Dowst Co., material and labor :	
Ward 1	17.77
“ 2	19.08
“ 3	19.57
“ 4	30.35
“ 5	45.45
“ 6	24.60
“ 7	10.53
“ 8	18.25
“ 9	31.41
City hall stand	13.41
Paid John B. Clarke Co., printing 690 check-lists	
John B. Clarke Co., printing additions to check-lists	27.00
Oscar Perkins, cleaning court room, ward 7	5.50
Temple & Farrington, 13 indexes	3.38
Temple & Farrington, 18 blank books	9.00
Temple & Farrington, legal cap	1.10

Paid Timothy F. Lynch, ink, envelopes, and stamps, ward 5	\$0.49	
C. H. Clark, 20 lamps, 2 qts. oil, 1 2-quart oil-can, ward 4	5.85	
Isaac Whittemore, use of horse and carriage as inspector	10.00	
Aretas Blood, use of Mechanics Hall November 8, 9, and 10	90.00	
John Driscoll, 2 large ash barrels . .	9.00	
D. G. Andrews, labor and supplies for ward room No. 2	13.75	
Paid L. M. Aldrich :		
69 ft. stair rail, ward 6	6.21	
16 stair rail brackets, ward 6	2.00	
12½ hours' labor, ward 6	3.13	
2 hours' labor and screws, ward 4 . .	.55	
Paid C. H. Simpson, use of hack in put- ting up check-lists	5.00	
Clement Beaudet, wood and coal for ward room No. 9	4.50	
D. E. Guiney, gas-piping ward 6 ward room	22.53	
	<hr/>	\$798.06

RELATING TO SCHOOLS.

Paid John H. Proctor, grading Youngs- ville schoolhouse yard	\$42.75	
Grand Rapids School Furniture Co., seats and desks for Varney school . .	155.07	
J. G. Jones, freight on furniture . . .	17.13	
Allen Chisholm, land for school- house, West Manchester, deed dated March 6, 1892	900.00	
error, overdraft	9.00	
James T. Donahoe, land for school- house, West Manchester, deed dated March 5, 1892	1,590.00	
	<hr/>	\$2,713.95

SUNDRIES.

Paid Jones's Baggage Express, 5½ hours delivering reports	\$2.75
Hill & Co., express on packages to New York city	1.57
Novelty Advertising Co., 24 Midg- et stamps	10.80
H. Eunice Kidder, services as clerk for the year 1892	275.00
Albert Blood, land for hose house in South Manchester, deed dated May 26, 1892	684.48
estate of Wilberforce Ireland, claim for labor on Webster-street en- gine-house	376.67
Chas. A. Hoitt & Co., repairing chair . . . . .	.25
Manchester post-office, postage stamps and postals	29.25
Frederick Perkins, sewing up wound, etc., on Pat Williams	5.00
Frederick Perkins, setting broken arm of Mike Collins, etc.	35.00
Frederick Perkins, sewing wound and attendance on Barney Luney	8.00
Paid D. A. Simons, bedding for pest-house :	
6 mattresses	12.00
6 comforters	10.50
6 pillows	4.50
2 mattresses, soft top	6.00
3 hand lamps . . . . .	.90
3 comforters	5.25
4 pillows	3.00
Screen cloth . . . . .	.40
Paid estate of John B. Clarke, rebate of amount paid for entering sewer	15.00

Paid town of Goffstown, taxes on land	\$1.45
D. Barker, 7 days' services as city messenger	12.25
H. P. Mulloney, examination of glandered horse (White)	5.00
H. P. Mulloney, examination of glandered horse (of J. Bourque)	5.00
First N. H. Battery, powder, primers, cartridges, and firing salute of 50 guns July 4, 1892	42.00
Charles H. Wood, painting sign	2.00
Pike & Heald, 6 cash boxes for treasurer's office	1.98
S. J. Putnam, labor in treasurer's office 132 days	132.00
Manchester Hardware Co., one ball twine . . . . .	.10
D. W. King, copies of deeds	10.26
D. W. King, recording deeds . . . . .	.81
Charles E. Lord, mason work at pest-house	20.15
James P. Finn, painting at pest-house	32.92
Flint & Little, jury-box for ward 9	1.75
Sampson, Murdock & Co., 25 city directories	50.00
Sampson, Murdock & Co., 24 maps	6.00
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	\$1,809.99
Total expenditures	<hr/> \$29,753.76

Mayor's Incidentals.

Appropriation	\$300.00
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EXPENDITURES.

Paid E. J. Knowlton, entertainment of R. A. Quimby, of Boston, Mass., designer of Stark park	\$3.00
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Paid A. M. Winchester, dinners	\$9.05	
Frank W. Elliott, dinners for guests from Boston fire department and members of city government	38.50	
J. W. Truell, four hacks May 12 and 13 for guests from Boston	27.00	
Western Union Telegraph Co., tel- egram . . . . .	.25	
E. J. Knowlton, expense of com- mittee on commons to Boston to inspect plan of Stark park	11.00	
E. J. Knowlton, allowance for hire of teams	133.00	
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Total expenditure		\$221.80
Transferred to reserved fund		78.20
		<hr/>
		\$300.00

City Officers' Salaries.

Appropriation	\$15,700.00	
Transferred from reserved fund	1,454.18	
	<hr/>	\$17,154.18

EXPENDITURES.

CENTRAL DEPARTMENT.

Paid E. J. Knowlton, mayor	\$1,800.00
Nathan P. Kidder, city clerk	900.00
Sylvanus B. Putnam, city treasurer	1,200.00
Edwin F. Jones, city solicitor	800.00
George L. Stearns, clerk of com- mon council	200.00
Thomas W. Lane, inspector of buildings	100.00
H. F. W. Little, milk inspector	300.00

Paid William Bailey, weigher at city scales from Dec. 1, 1891, to Dec. 31, 1892	\$413.78
Frank H. Crawford, weigher at city scales	30.00
John A. Barker, city messenger	700.00
John A. Barker, extra time	2.00
	<hr/>
	\$6,445.78

CITY PHYSICIAN AND OVERSEERS OF THE POOR.

Paid Frederick Perkins, city physician	\$200.00
E. J. Knowlton, chairman, <i>ex officio</i> , overseers poor	25.00
William H. Maxwell, ward 1	25.00
Thomas L. Quimby, ward 2	25.00
Benjamin F. Garland, ward 3	25.00
George S. Holmes, ward 4	25.00
Patrick Costello, ward 5	25.00
Charles Francis, ward 6	25.00
William Marshall, ward 7	25.00
William Weber, ward 8	25.00
William H. Maxwell, clerk of board	75.00
Judith Sherer, matron at pest-house	360.00
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	\$860.00

SCHOOL OFFICERS AND BOARD OF SCHOOL COMMITTEE.

Paid William E. Buck, superintendent of schools	\$2,000.00
Samuel Brooks, truant officer	750.00
E. J. Knowlton, chairman, <i>ex officio</i>	10.00
Edward B. Woodbury, clerk of board	100.00
Edson S. Heath, president common council, <i>ex officio</i>	10.00
C. H. Manning, ward 1	10.00
C. D. Sumner, ward 1	10.00

Paid William H. Morrison, ward 2	\$6.67
Charles S. Murkland, ward 2	3.33
George H. Stearns, ward 2	10.00
George D. Towne, ward 3	10.00
Louis E. Phelps, ward 3	10.00
Stephen B. Stearns, ward 4	10.00
Edwin L. Richardson, ward 4	10.00
James P. Slattery, ward 5	10.00
William J. Sughrue, ward 5	10.00
F. T. E. Richardson, ward 6	10.00
George W. Dearborn, ward 6	10.00
Marshall P. Hall, ward 7	10.00
E. B. Woodbury, ward 7	10.00
Luther C. Baldwin, ward 8	10.00
William K. Robbins, ward 8	10.00
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	\$3,030.00

BOARD OF ASSESSORS.

Paid Henry Lewis, ward 1, assessor	\$150.00
John E. Stearns, ward 2, assessor	171.25
D. O. Furnald, ward 3, assessor	782.50
H. D. Lord, ward 4, assessor	237.50
John Ryan, ward 5, assessor	142.50
George H. Dudley, ward 6, assessor	432.50
William T. Rowell, ward 7, assessor	150.00
Frank T. Provost, ward 8, assessor	166.25
E. W. Brigham, assistant assessor	257.50
Nicholas Nichols, assistant assessor	302.50
Hiram Forsaith, assistant assessor	55.00
Isaac Whittemore, assistant assessor	66.25
John Cayzer, assistant assessor	42.50
Henry F. Stone, assistant assessor	45.00
Harry T. Lord, clerk	67.50
Jabez Adams, interpreter	30.00
Louis Cormier, interpreter	52.50
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	\$3,151.25

CITY TAX COLLECTOR.

Paid George E. Morrill:

Quarter ending February 29, 1892	\$200.00	
Quarter ending May 31, 1892	200.00	
Balance of salary for the year ending June 1, 1892	850.00	
Commission on old taxes	6.53	
Salary, quarter ending August 31, 1892	200.00	
Quarter ending November 30, 1892	200.00	
	<hr/>	\$1,656.53

MODERATORS, 1891 AND 1892.

Paid Abial W. Eastman, ward 1	\$10.00	
Nicholas Nichols, ward 2	10.00	
E. R. Robinson, ward 3	10.00	
George C. Gilmore, ward 4	10.00	
William Howe, ward 5	10.00	
Henry B. Fairbanks, ward 6	10.00	
Frank A. Dockham, ward 7	10.00	
Chas. G. Ranno, ward 8	10.00	
Horace P. Simpson, ward 9	10.00	
	<hr/>	\$90.00

WARD CLERKS, 1891 AND 1892.

Paid Frank X. Foster, ward 1	\$10.00	
Daniel C. Smith, ward 2	10.00	
Samuel C. Kennard, ward 3	10.00	
Harrie M. Young, ward 4	10.00	
Timothy F. Lynch, ward 5	10.00	
George B. Rogers, ward 6	10.00	
Charles A. Foster, ward 7	10.00	
Frank O. Clement, ward 8	10.00	
Israel W. Dickey, ward 9	10.00	
	<hr/>	\$90.00

INSPECTORS OF CHECK-LIST, 1891 and 1892.

Paid Geo. C. Kemp, ward 1, 40 days at \$2.25	\$90.00
Chas. B. Tucker, ward 2, 40 days at \$2.25	90.00
David O. Furnald, ward 3, 14 days at \$2.25	31.50
Harrison D. Lord, ward 4, 60 days at \$2.25	135.00
Patrick E. Daily, ward 5, 43 days at \$2.25	96.75
Isaac Whittemore, ward 6, 54 days at \$2.25	121.50
Joseph A. Foster, ward 7, 36 days at \$2.25	81.00
Chas. C. Tinkham, ward 8, 43½ days at \$2.25	97.87
Wm. K. Robbins, ward 9, 38 days at \$2.25	85.50
Frank Bourassa, as interpreter, 10 days at \$2.25	22.50
W. G. Fernald, as clerk, 22 days at \$2.25	49.50
H. D. Lord, as clerk	22.50
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	\$923.62

SUPERVISORS, 1891 AND 1892.

Paid W. B. Stearns, ward 1, 8 days at \$1.75	\$14.00
S. L. Farnham, ward 1, 8 days at \$1.75	14.00
Fred C. Hale, ward 2, 8 days at \$1.75	14.00
Chas. S. Partridge, ward 2, 8 days at \$1.75	14.00
H. F. W. Little, ward 3, 8 days at \$1.75	14.00

Paid David H. Young, ward 3, 4 days at \$1.75	\$7.00
Chas. Uhlig, ward 4, 11 days at \$1.75	19.25
P. Fahey, ward 4, 11 days at \$1.75	19.25
David Reardon, ward 5, 10 days at \$1.75	17.50
John Conway, ward 5, 10 days at \$1.75	17.50
William C. Blodgett, ward 6, 14 days at \$1.75	24.50
Edward P. Cogswell, ward 6, 14 days at \$1.75	24.50
William T. Payne, ward 7, 6 days at \$1.75	10.50
John W. Davis, ward 7, 6 days at \$1.75	10.50
Fred R. Stark, ward 8, 11 days at \$1.75	19.25
Charles H. Hodgman, ward 8, 11 days at \$1.75	19.25
Eugene Quirin, ward 9, 8 days at \$1.75	14.00
Thomas C. Martin, ward 9, 8 days at \$1.75	14.00
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	\$287.00

SELECTMEN, 1891 and 1892.

Paid John H. Wales, Jr., ward 1	\$10.00
Joseph Tait, " 1	10.00
John F. Reardon, " 1	10.00
Daniel G. Andrews, " 2	10.00
Harry P. Ray, " 2	10.00
David Thayer, " 3	10.00
John Cronin, " 3	10.00
T. P. Heath, " 3	10.00
John K. Currier, " 4	10.00
Jeff. T. Perry, " 4	10.00

Paid Charles H. Bodwell,	ward 4	.	\$10.00
Lawrence F. Mahoney,	" 5	.	10.00
John B. LaForest,	" 5	.	10.00
Arthur Allen,	" 5	.	10.00
George F. Sargent,	" 6	.	10.00
John T. Gott,	" 6	.	10.00
Peter D. St. Germain,	" 6	.	10.00
William D. Wheeler,	" 7	.	10.00
Sumner D. Claflin,	" 7	.	10.00
John F. Mallady,	" 7	.	10.00
George E. Fellows,	" 8	.	10.00
Frank St. John,	" 8	.	10.00
Odilon Doucet,	" 8	.	10.00
William J. Price,	" 9	.	10.00
Oswald Paris,	" 9	.	10.00
Edward P. French,	" 9	.	10.00
			<hr/>
			\$260.00

BALLOT INSPECTORS, 1892.

Paid Silas C. Stetson,	ward 1	.	\$10.00
Hiram Wingate,	" 1	.	10.00
William F. Graner,	" 1	.	10.00
Zepherine Cote,	" 1	.	10.00
Harry C. Andrews,	" 2	.	10.00
John W. Center,	" 2	.	10.00
Wm. M. Butterfield,	" 2	.	10.00
Walter M. Morgan,	" 2	.	10.00
C. H. Little,	" 3	.	10.00
J. W. Fellows,	" 3	.	10.00
Frank M. Forsaith,	" 3	.	10.00
Cyrille Lebrun,	" 3	.	10.00
Harry T. Lord,	" 4	.	10.00
Frank H. Lussier,	" 4	.	10.00
Frank Bourassa,	" 4	.	10.00
John P. Broderick,	" 4	.	10.00
Michael Hawkins,	" 5	.	10.00
William W. Boisvert,	" 5	.	10.00

Paid John J. McAllister,	ward 5	.	\$10.00
John J. Minturn,	" 5	.	10.00
William Burpee,	" 6	.	10.00
Peter Farrell,	" 6	.	10.00
John M. Kendall,	" 6	.	10.00
Charles Robitaille,	" 6	.	10.00
William T. Rowell,	" 7	.	10.00
William D. Ladd,	" 7	.	10.00
William Marshall,	" 7	.	10.00
Edward J. Sheehan,	" 7	.	10.00
Edward Scheer,	" 8	.	10.00
John McDonough,	" 8	.	10.00
Arthur Moquin,	" 8	.	10.00
Edward Bunker,	" 8	.	10.00
Frank E. Putney,	" 9	.	10.00
Oliver H. Granger,	" 9	.	10.00
John Montplaisir,	" 9	.	10.00
John B. Bourque,	" 9	.	10.00
			<hr/>
			\$360.00
Total expenditures	.	.	<hr/>
	.	.	\$17,154.18

Auditor's Department.

Appropriation \$2,000.00

EXPENDITURES.

LABOR.

Paid James B. Straw, auditor, salary for the year 1892	\$1,000.00
A. E. Herrick, clerk, salary from Jan. 1 to August, 1892	501.90
Lizzie M. Cogswell, clerk, from Aug. 26 to Dec. 31, 1892	210.00
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	\$1,711.90

SUPPLIES.

Paid A. E. Herrick, cash paid for express on electrotypes	\$1.00
A. E. Herrick, expenses to Con- cord twice and return	1.74
J. B. Straw, cash paid for express	3.10
J. W. Wilson, freight and truckage on desks	1.34
Manchester post-office, postage	2.00
Peter Harris, one key . . . . .	.25
George H. Richter & Co., 1 white enameled cloth bath	5.25
George H. Richter & Co., 1 box Havelock fasteners . . . . .	.75
H. C. Dimond & Co., 1 pad and bottle red ink . . . . .	.50
H. C. Dimond & Co., 1 4-wheel Monarch hand stamp	14.00
J. Stickney, 1 rubber mat for type- writer . . . . .	.75
Paid The Hammond Typewriter Co.:	
Balance due on exchange of type- writer	30.00
Express and repairs on typewriter	2.75
1 ream No. 28 paper	2.00
2 typewriter desks	50.00
Paid Novelty Advertising Co., 30 Midg- et stamps	
	17.85
Paid National Typewriter Co.:	
1 blue record ribbon . . . . .	.60
1 long-handled brush . . . . .	.20
Balance due on typewriter No. 2635	13.00
4 copying ribbons	2.85
Express to Philadelphia and return	2.15

Paid Manchester Hardware Co., twine .	\$0.15	
Manchester Hardware Co., glue .	.20	
J. W. Robinson, interest tables, etc.	7.00	
Daniels & Downs, 12 sheets carbon	.50	
Daniels & Downs, 1 ream No. 8 ruled paper	2.10	
Daniels & Downs, 1 box carbon .	3.00	
Pike & Heald, 2 tin trunks . . .	7.76	
Head & Dowst Co., labor and lum- ber for stamp case	4.35	
W. E. Moore, 500 2-cent envelopes and printing same	12.50	
Paid Temple & Farrington Co.:		
4 gross rubber bands	3.60	
1 bottle ink . . . . .	.75	
2½ boxes McGill fasteners . . . . .	.90	
130 sheets carbon paper	5.25	
1 record book and 1 brush . . . . .	.65	
Paste, ink, etc.	3.28	
Paid Moores & Martin, labor, etc., pack- ing desk		
	1.75	
John B. Varick Co., 1 waste basket	1.25	
John B. Varick Co., 1 brush . . . . .	.10	
John B. Clarke Co., printing blanks	9.00	
E. T. James, use of team	2.00	
		<u>\$218.17</u>
Total expenditures		\$1,930.07
Amount transferred to reserved fund		69.93
		<u>\$2,000.00</u>

Highway District No. 1.

Appropriation	\$300.00	
Amount transferred from reserved fund	320.50	
		<u>\$620.50</u>

EXPENDITURES.

Paid labor, as per pay-rolls :

February	\$16.00
March	18.50
April	78.25
May	120.00
June	181.75
July	46.75
August	54.00
November	40.00
December	27.75

583.00

LUMBER, PIPE, ETC.

Paid Head & Dowst Co., 210 feet 2 by 6 spruce	\$3.36
Head & Dowst Co., 10 chestnut posts	1.60
Pike & Heald, 6 feet 3-inch iron pipe . . . . .	.39
Pike & Heald, 1 foot 3-inch elbow	.20
William Campbell, 67 loads gravel	6.70
E. Dodge, 157 loads gravel . . .	15.70

27.95

TOOLS.

Paid Killey & Wadleigh :

2 round-point shovels	\$1.30
2 picks	2.00
1 steel hoe . . . . .	.50
2 pick handles . . . . .	.40

Paid Wadleigh Hardware Co., 1 square- point shovel . . . . .	.65
Wadleigh Hardware Co., 20 lbs. 60- penny wire nails . . . . .	.60
John B. Varick Co., 20 lbs. wire nails . . . . .	.60

6.05

BLACKSMITHING.

Paid J. P. Fellows & Co., sharpening tools, etc.	\$3.50
Total expenditures	<u>\$620.50</u>

Highway District No. 2.

Appropriation	\$12,000.00
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EXPENDITURES.

Paid labor as per pay-rolls :

January	\$650.83
February	800.38
March	664.90
April	735.76
May	939.73
June	1,233.21
July	1,072.47
August	944.72
September	799.10
October	1,329.78
November	872.84
December	1,294.15
	<u>\$11,337.87</u>

Paid City Farm for labor in breaking roads in February and March	\$11.50
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TOOLS AND HARDWARE.

Paid Riehle Bros., 1 five-ton Robie jack	
No. 7	\$19.00
Head & Dowst Co., 116 feet drag plank	4.64

Paid Manchester Hardware Co. :

6 canal barrows	\$10.00
12 sledge-hammer handles	1.75
3 level glasses . . . . .	.21
1 Little Gem nickel lantern	1.00
12 Ames shovels	11.00
12 picks and handles	15.00
1 twelve-inch blind wrench . . . . .	.75
Other hardware	11.80

Paid John B. Varick Co., round-point shovels, Norway iron, manilla rope, plow points, shovels, octagon steel, pick handles, hammers, hammer handles, and other hardware

137.72

Killey & Wadleigh, rule, tape measure, hoes, brooms, pick handles, shovels, snow shovels, and other hardware

55.30

Wadleigh Hardware Co., 12 round-point shovels

11.00

Wadleigh Hardware Co., 1 feather duster

.75

Wadleigh Hardware Co., 12 square-point shovels

10.50

C. C. Harriman, 2 wheel-barrows

2.00

C. C. Harriman, 20 pick handles

3.00

J. Stickney, 5 lbs. belt seat

1.38

J. Stickney, 4 doz. gilt tacks

.20

 \$297.00

TELEPHONE, GAS, STATIONERY.

Paid New England Telegraph & Telephone Co., use of telephone

\$36.75

Paid Temple & Farrington Co. :

24 blank-books

10.00

12 memorandum books

.96

Mucilage, pencils, paper	\$1.23	
Ink, stamped envelopes and other stationery	7.30	
Paid Nate Kellogg, 500 blank bills	2.25	
	<hr/>	\$58.49

BLACKSMITHING AND REPAIRS.

Paid Thomas A. Lane, gas pipe, railing, etc.	\$10.67	
John T. Beach, sharpening tools, etc.	15.15	
J. O. Tremblay, repairing tools, etc.	1.50	
L. M. Aldrich, filing saws, etc.	6.85	
	<hr/>	\$34.17

MATERIALS.

Paid C. H. Hoyt, 102 loads gravel	\$10.20	
Vacuum Oil Co., one half barrel	1.00	
Vacuum Oil Co., 28 gallons oil	18.20	
E. Gratz, lumber and labor	1.35	
Thomas A. Lane, material and labor	2.34	
Head & Dowst Co., 3 loads filling	.75	
Manchester Provision Co., 1 hog-head	1.25	
Addison Gray, 12 loads stone	3.00	
Addison Gray, 377 loads gravel	37.70	
D. M. Poore & Son, 13 bu. old salt	2.60	
James Briggs, galvanized pipe and elbow	1.24	
James Briggs, galvanized pipe, etc., at sand shed	6.23	
	<hr/>	\$85.86

SUNDRIES.

Paid Boston & Maine R. R., freight on jack	\$0.50	
E. T. James, use of carriages	85.00	
Whitten & Fifield, use of teams	12.00	
M. E. Kean, medical attendance on John Kelly for injured wrist	3.00	
	<u>3.00</u>	\$100.50
Total expenditures		\$11,925.39
Amount transferred to reserved fund		<u>74.61</u>
		\$12,000.00

Highway District No. 3.

Appropriation	\$200.00	
Transferred from reserved fund	161.24	
	<u>161.24</u>	\$361.24

EXPENDITURES.

LABOR.

Paid labor as per pay-rolls :

March	\$11.13	
May	8.75	
June	34.88	
July	27.25	
August	23.13	
September	92.75	
November	120.36	
December	8.62	
District No. 2, labor in month of July, as per pay-roll	3.00	
	<u>3.00</u>	\$329.87

GRAVEL.

Paid J. H. Campbell, 101 loads gravel	\$15.70	
J. H. Campbell, 20 loads stone	5.00	
Arthur Campbell, 42 loads gravel	4.55	
Sarah E. Robie, 14 loads stone	3.50	
	<u> </u>	\$28.75

HARDWARE.

Paid John B. Varick Co., 1 ruby lantern		\$0.33
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BLACKSMITHING.

Paid J. P. Fellows & Co., sharpening picks, etc.		\$2.29
Total expenditures		<u>\$361.24</u>

Highway District No. 4.

Appropriation		\$500.00
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EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls :		
January	\$7.45	
March	20.25	
June	133.25	
August	69.50	
October	88.50	
November	131.62	
	<u> </u>	\$450.57

TOOLS.

Paid Wadleigh Hardware Co., 2 Ames round-point shovels	\$1.80	
Wadleigh Hardware Co., 1 Hodg- den round-point shovel . . . . .	.65	
	<u> </u>	\$2.45

MATERIALS.

Paid Byron E. Moore, cash paid Reuben Flanders for sharpening tools	\$0.50	
Byron E. Moore, 65 loads clay	3.90	
C. C. Webster, 380 loads clay and gravel	22.80	
Thomas Walker, Jr., 60 loads gravel	3.60	
Mrs. Fox, 25 loads gravel	1.50	
		<u>\$32.30</u>
Total expenditures		\$485.32
Amount transferred to reserved fund		14.68
		<u>\$500.00</u>

Highway District No. 5.

Appropriation	\$800.00
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EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls:

February	\$24.12	
March	4.88	
May	62.99	
June	124.25	
July	20.25	
August	18.75	
September	186.87	
October	90.62	
November	112.49	
December	18.75	
		<u>\$663.97</u>

MATERIALS.

Paid Libbey Bros., 484 loads gravel	\$48.40	
Mark E. Harvey, 28 loads gravel	2.80	
Charles Wheeler, 35 loads gravel	3.50	
John Parmenter, 50 loads gravel	5.00	
estate of Mary Golden, gravel	3.00	
Paid Head & Dowst Co. :		
657 ft. 3-inch hemlock plank	9.20	
675 ft. 3 x 5 spruce	10.00	
20 ft. chestnut	3.20	
15 chestnut posts	2.40	
Paid Wallace & Pierce, 66 loads loam	6.60	
	<u> </u>	\$94.10

BLACKSMITHING.

Paid R. W. Flanders, sharpening tools		\$12.05
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TOOLS.

Paid John B. Varick Co. :		
6 pick handles	\$0.85	
3 square-point shovels	1.50	
1 round-point pick	1.00	
1 E No. 3 plow point . . . . .	.60	
13 lbs. nails . . . . .	.39	
	<u> </u>	\$4.34
Total expenditures		\$774.46
Amount transferred to reserved fund		25.54
		<u> </u>
		\$800.00

Highway District No. 6.

Appropriation	\$500.00
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EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls :

February	\$21.00	
March	15.75	
May	40.00	
June	158.50	
September	121.51	
October	97.00	
December	24.00	
	<u> </u>	\$477.76

TOOLS.

Paid John B. Varick Co., 1 doz. No. 3 cutter point	\$0.75	
John B. Varick Co., 1 doz. No. 4 cutter point . . . . .	.80	
Sanborn Carriage Co., 1 plow beam	3.00	
	<u> </u>	\$4.55

BLACKSMITHING.

Paid James Morrison, repairing chains and sharpen- ing tools	\$2.15	
	<u> </u>	
Total expenditures	\$484.46	
Amount transferred to reserved fund	15.54	
	<u> </u>	\$500.00

Highway District No. 7.

Appropriation	\$1,500.00	
Amount transferred from reserved fund	15.61	
	<u> </u>	\$1,515.61

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls:

January	\$55.25	
February	83.92	
March	26.50	
April	292.47	
May	249.33	
June	237.48	
July	104.62	
August	93.61	
September	74.50	
October	157.75	
November	32.62	
	<u> </u>	\$1,408.05

TOOLS.

Paid John B. Varick Co.:

1 mattock	\$1.00	
6 contractors' picks	6.39	
28 lbs. steel drills	3.92	
2 No. 104 scoops	2.00	
6 pick handles	1.13	
6 pick handles	1.13	
1 stone-hammer and handle . . . . .	.75	
2 36-inch sledge-hammer handles . . . . .	.40	
6 round-point shovels	4.25	
2 plow points and bolt	1.60	
8 lbs. 60-penny nails . . . . .	.24	
Paid Manchester Hardware Co., 3 $\frac{1}{4}$ lbs. shims and wedges . . . . .	.49	
	<u> </u>	\$23.30

MATERIALS.

Paid Head & Dowst Co., 50 feet drag plank	\$2.00	
Head & Dowst Co., 50 chestnut posts	9.00	
Head & Dowst Co., 467 feet 1 by 7 spruce	7.47	
Warren Harvey, 2 loads stone	5.00	
Warren Harvey, 1 load covering stone	3.00	
Charles Dudley, 12 loads paving stone	18.00	
Alvin G. Bean, 6 loads paving stone	9.00	
Chas. P. Still, 4 loads paving stone	5.00	
	<hr/>	\$58.47

BLACKSMITHING.

Paid James Morrison, sharpening tools	\$4.00	
Welcome & Son, sharpening drills, picks, etc.	10.58	
	<hr/>	\$14.58

WATERING-TROUGHS, ETC.

Paid Thomas A. Lane, material and labor	\$7.04	
Thos. A. Lane, 1 10-inch Akron Y	1.17	
John F. Larkin, disconnecting pipe to lamp posts	3.00	
	<hr/>	\$11.21
Total expenditures		<hr/> \$1,515.61

Highway District No. 8.

Appropriation \$1,000.00

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls :

February	\$21.00	
March	315.37	
May	218.62	
June	44.05	
July	232.50	
October	34.13	
November	94.26	
	<hr/>	\$959.93

TOOLS.

Paid John B. Varick Co.:

2 round-point Ames shovels	\$1.50	
1 pick handle . . . . .	.20	
1 32-inch sledge handle . . . . .	.20	
2 shovels	1.50	
62 lbs. drill steel	5.27	
9½ lbs. wood washers . . . . .	.95	
1 7-lb. striking-hammer and handle	1.04	
Paid Head & Dowst Co., 76 feet drag plank	3.04	
R. I. Stevens, 1 stone drag	5.00	
Killey & Wadleigh, 1½ lbs. shims . . . . .	.30	
	<hr/>	\$19.00

BLACKSMITHING.

Paid H. F. Thompson, sharpening tools \$2.00

MATERIALS.

Paid John B. Varick Co., 5 lbs. wire spikes	\$0.15	
Frank S. Bodwell, 10 feet covering stone	5.00	
Geo. H. Penniman, cash paid for 4 gallons of oil . . . . .	.50	
Geo. H. Penniman, 2 pails . . . . .	.70	
Geo. H. Penniman, 2 dippers . . . . .	.30	
	<u> </u>	\$6.65

EXPLOSIVES.

Paid Killey & Wadleigh :		
10 feet cotton fuse	\$0.06	
1 3/4 lbs. forcite . . . . .	.61	
1 doz. blasting caps . . . . .	.24	
5 lbs. No. 1 forcite	1.80	
50 feet W. P. fuse . . . . .	.25	
	<u> </u>	\$2.96

SUNDRIES.

Paid Temple & Farrington Co., 1 time book	\$0.62	
Total expenditures	\$991.16	
Amount transferred to reserved fund	8.84	
	<u> </u>	\$1,000.00

Highway District No. 9.

Appropriation	\$500.00
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EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls :	
May	\$61.50
June	135.75

August	\$121.86	
September	31.00	
October	85.00	
December	38.62	
	<u> </u>	\$473.73

TOOLS.

Paid John B. Varick Co., 2 shovels, 1 ax	\$2.25
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BLACKSMITHING.

Paid R. W. Flanders, sharpening tools	\$4.55
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MATERIALS.

Paid Oliver Merrill, 113 loads gravel	\$11.30
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Total expenditures	\$491.83
Amount transferred to reserved fund	8.17
	<u> </u>
	\$500.00

Highway District No. 10.

Appropriation	\$4,000.00	
Amount transferred from reserved fund	460.46	
	<u> </u>	\$4,460.46

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls:

January	\$213.38
February	260.50
March	252.25
April	543.00
May	614.78

June	\$295.50	
July	901.13	
August	45.75	
September	131.70	
October	324.63	
November	211.88	
December	271.86	
	<hr/>	\$4,066.36

TOOLS AND HARDWARE.

Paid J. Hadlock, 2 sets American Cham- pion sections	\$16.00	
J. Hadlock, 12 bolts and 4 castings	1.60	
John B. Varick Co., plow points, 5 pick handles, and other hardware	5.17	
Killey & Wadleigh, 2 cross-cut saws, files, 10 coal scoops, 1 padlock .	11.61	
Manchester Hardware Co., bolts, washers, padlock, callipers, ruby lanterns, pails, shovels, Norway iron, etc.	34.50	
Joseph Demers, 2 lbs. spikes . . .	.70	
Joseph Demers, 4 lbs. nails . . . .	.20	
	<hr/>	\$69.78

BLACKSMITHING.

Paid D. F. Cressey, sharpening and repairing tools .	\$14.79
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MATERIALS.

Paid Allen N. Clapp, nails and screws .	\$10.56
L. & W. T. Seiberlich, oil, paint, brush, setting glass, etc.	6.88
Head & Dowst Co., 46 ft. Michigan pine	2.30
James Baldwin Co., 110 ft. maple plank	4.40

Paid A. C. Wallace, 1,186 ft. spruce	\$18.75	
A. C. Wallace, 108 ft. pine boards	1.94	
Paid S. C. Forsaith Machine Co. :		
4 grates for boiler	8.00	
Labor on drills and clamps	6.60	
Labor on boiler . . . . .	.60	
Bolts and iron . . . . .	.18	
Paid F. M. Barnard, 215 chestnut posts	32.25	
A. & D. M. Poore, 2 barrels Cum- berland coal	2.50	
William Scheer, 9,860 lbs. coal	33.24	
	<u> </u>	\$128.20

SUNDRIES.

Paid Temple & Farrington Co., 24 time- books	\$17.76	
Temple & Farrington Co., ink, inkstand, pencils, paper, pass- books, and other stationery	11.42	
L. M. Aldrich, filing saw . . . . .	.35	
P. Duval, filing saws	1.80	
Charles O. Phelps, keeping of horse one year	150.00	
	<u> </u>	\$181.33
Total expenditures		\$4,460.46

Highway District No. 11.

Appropriation	\$1,000.00	
Amount transferred from reserved fund	368.28	
	<u> </u>	\$1,368.28

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls :	
February	\$403.13
March	36.75

April	\$40.25	
May	74.00	
June	254.25	
July	217.50	
August	236.50	
	<hr/>	\$1,262.38

MATERIALS.

Paid Charles Shirley, 3 perch stone for bridge	\$6.00	
Wadleigh Hardware Co., 70 lbs. wire nails	2.10	
Amoskeag Mfg. Co., 59 loads stone	59.00	
Geo. Colby, 105 loads gravel	10.50	
David Wells, 40 posts for fence on Goffstown road	6.00	
Lizzie Farmer, 127 loads gravel	12.70	
	<hr/>	\$96.30

TOOLS.

Paid Wadleigh Hardware Co. :		
20 $\frac{5}{8}$ lbs. stone-hammers	\$3.71	
2 sledge handles . . . . .	.30	
3 bush scythes	1.95	
3 bush scythe snaths	2.25	
	<hr/>	\$8.21

EXPLOSIVES.

Paid Wadleigh Hardware Co., 2 $\frac{3}{4}$ lbs. forcite	\$1.10	
Wadleigh Hardware Co., 25 ft. cotton fuse . . . . .	.13	
Wadleigh Hardware Co., 8 blast- ing caps . . . . .	.16	
	<hr/>	\$1.39
Total expenditures		<hr/> \$1,368.28

Highway District No. 12.

Appropriation	\$300.00	
Amount transferred from reserved fund	197.12	
	<u> </u>	\$497.12

EXPENDITURES.

LABOR.

Paid city farm in February	\$25.75	
March	3.87	
April	9.00	
May	44.00	
June	297.00	
November	105.00	
	<u> </u>	\$484.62
Paid Melvin Hall, 2 days' labor	\$4.50	
S. H. Smith, 2 days' labor, self and team	8.00	
	<u> </u>	\$12.50
Total expenditures		<u>\$497.12</u>

New Highways.

Appropriation	\$10,000.00	
Amount transferred from reserved fund	14,038.08	
	<u> </u>	\$24,038.08

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-roll, in district No. 2 :		
January	\$7.50	
April	696.40	
May	735.54	

June	\$1,537.97	
July	1,200.91	
August	1,612.69	
September	233.87	
October	715.96	
November	648.23	
December	225.97	
	<u> </u>	\$7,615.04

Paid labor of men and teams, as per pay-roll, in district No. 7 :

May	\$300.00	
June	600.00	
July	250.00	
August	500.00	
September	31.50	
	<u> </u>	\$1,681.50

Paid labor of men and teams, as per pay-roll, in district No. 8 :

June	\$653.29	
July	948.78	
August	1,234.63	
October	54.69	
	<u> </u>	\$2,891.39

Paid labor of men and teams, as per pay-roll, in district No. 10 :

May	\$206.73	
June	1,053.87	
July	352.63	
August	1,015.77	
September	713.70	
October	534.87	
November	1,006.92	
December	157.75	
	<u> </u>	\$5,042.24

Paid Geo. Whitford, removing 4,123 $\frac{3}{4}$ yards of earth on Beauport street, at 17 cents per yard, as per contract	\$701.04	
credit by cash in 1890	<u>500.00</u>	
Balance		\$201.04
Concord & Montreal R. R., bal- ance due for masonry underpass on Second street		31.20
Dodge & Webster, building Mitch- ell street 100 rods at \$3 per rod		300.00
Mills & Sturtevant, moving and repairing house of Hannah Ste- vens		99.69
A. & E. Reed, repairs on Samuel Page's house, damaged by blast- ing		<u>3.00</u>
		\$634.93

TOOLS.

Paid Manchester Hardware Co. :	
12 Ames round-point shovels, district 2	\$11.00
12 railroad picks, district 10	12.00
12 pick handles, district 10	3.00
12 ruby globes, district 10	3.50
2 axes, district 10	1.50
2 ax handles, district 10 . . . . .	.50
107 lbs. steel bar	5.89
Other hardware	6.75
Paid John B. Varick Co.:	
3 lbs. 5-16 cable chains, district 2 . . . . .	.21
12 lbs. 32-inch sledge handles, district 2	2.00
32 lbs. Norway iron, district 2	1.20

6 lbs. Michigan steel, district 2	\$0.18
12 tubular lanterns, district 2	4.50
12 ruby globes, district 2	5.50
1 No. 8 lock cutter for Doe plow, district 2	3.25
1 No. 8 Doe plow clevis, district 2 . . . . .	.75
6 lbs. Norway iron . . . . .	.23
36 lbs. ½-inch cable chain, district 2	1.98
Other hardware, district 2	45.28
Steel wedges and shims, 2 hammers, 3 handles, crowbar, etc., district 8	14.80
Other hardware, district 8	33.00
Hardware	4.34
Paid J. Hadlock, sundry pieces for road machine	17.75
Wadleigh Hardware Co., 1 ball marline, district 8 . . . . .	.15
Wadleigh Hardware Co., 4 steel crowbars, 40 lbs., district 8	2.40
Wadleigh Hardware Co., other hardware, district 8 . . . . .	.64
Sanborn Carriage Co., 1 plow beam	3.00
	<hr/>
	\$185.30

EXPLOSIVES.

Paid John B. Varick Co.:

F. G. powder, district 2	\$0.68
100 feet double tape fuse, district 2 . . . . .	.60
3½ lbs. dynamite, district 7	1.12
100 dynamite caps, district 7	1.25
Cotton fuse, district 7 . . . . .	.40
1¼ lbs. No. 2 ⅛-inch cartridges, district 8 . . . . .	.38
No. 1 forcite, caps and fuse, district 8	108.65
20 lbs. blasting powder, district 8	3.00
Forcite, caps and fuse, district 2	3.20

Paid Killey & Wadleigh, 100 feet double tape fuse, district 2	\$0.60	
Killey & Wadleigh, 1 box blasting caps, district 2	1.50	
Paid Wadleigh Hardware Co :		
10 lbs. No. 1 forcite, district 2	4.00	
14¾ lbs. No. 1 forcite, district 8	5.90	
500 feet cotton fuse	2.00	
2 boxes caps	3.00	
41½ lbs. No. 1 forcite	16.60	
4½ lbs. powder . . . . .	.68	
	<hr/>	\$153.56

BLACKSMITHING.

Paid D. F. Cressey, sharpening picks, etc., district 10	\$1.24	
H. F. Thompson, sharpening drills, etc., district 8	50.65	
Welcome & Son, sharpening tools, etc., to July 29, 1892	47.99	
	<hr/>	\$99.88

STONE, LUMBER, AND OTHER MATERIAL.

Paid Head & Dowst Co.:		
65 loads filling	\$16.25	
710 loads filling, Maple street	177.50	
43 loads filling, Maple street	10.75	
1,773 loads filling, Maple street	443.25	
211 loads gravel, Lincoln street	168.80	
1,184 loads filling, Maple street	296.00	
8 loads sand, Beech street	4.00	
Paid Frank S. Bodwell:		
19 stone, 149 feet, sundry streets	59.60	
8 circles, 24 feet, sundry streets	43.00	
40 feet covering stone at McCrillis's shop	20.00	

Stone and labor on Central-street culvert	\$8.00
58 perch of stone, bank wall on Ashland street	174.00
272 feet mortar wall, Milford street	108.80
5 circles, city yard	17.50
18 feet edgestones, city yard	7.20
28 feet edgestones, Wagner's block	11.20
1 circle	3.50
1 load rimmers, Milford street	4.00
75 bound posts	75.00
90 feet edgestones at Judge Hunt's	18.00
Paid Frank S. Bodwell, 62 feet edgestones, city yard	24.80
Chas. A. Bailey, 948½ feet curbstone at 45 cents a foot	426.82
Chas. A. Bailey, 3 circles, 4 feet radius	13.50
Chas. A. Bailey, 21 circles, 3 feet radius	73.50
Warren Harvey, contract for Maple-street culvert	3,333.00
Dean & Provost, 127 loads dirt	19.05
Paid Head & Dowst Co.:	
Moving stone at Bakersville	19.39
52 feet drag plank	2.08
9 feet oak . . . . .	.27
10 hours' labor building drag for Page hill	2.25
Paid D. E. Guiney:	
Drilling 14 2-inch holes, 6 inches deep	9.50
270 feet 1¼-inch pipe	21.60
3 feet 1¼-inch railing ell . . . . .	.75
14 1¼-inch tees	3.50
14 1¼-inch crosses	3.55
Brimstone and wedges . . . . .	.40

Labor of 2 men 6 days	\$36.00	
Labor of 1 man 1 day	4.00	
Putting in iron fence railing on East Spruce street to above Belmont street		
Paid Addison Gray, 113 loads gravel	11.30	
Joseph Poor, 31 loads gravel	3.10	
Allen N. Clapp, 52½ gallons oil	3.94	
Paid S. C. Forsaith Machine Co.:		
160 feet fence boards	2.06	
14 chestnut posts	2.24	
9 round posts	1.44	
5 square posts	1.50	
336 feet fence boards	5.37	
17 chestnut posts	2.72	
360 feet spruce	5.76	
Paid Horace Holbrook, 115 loads gravel	34.50	
	<u>5,734.24</u>	
Total expenditures		\$24,038.08

Damage of Land Taken for Highways.

Appropriation	\$9,000.00	
Amount transferred from reserved fund	2,601.73	
	<u>11,601.73</u>	\$11,601.73

EXPENDITURES.

DAMAGES AWARDED BY MAYOR AND ALDERMEN.

Paid Clara A. Fogg, edgestone, River road, Amoskeag	\$3.50
E. M. Slayton, land damage, River road north	40.00
H. K. Slayton, land damage, River road north	20.00

Paid John J. McGovern, additional land damage, Amory street . . .	\$160.00
Richard Evans, damage to shade trees, Spruce street . . .	25.00
William E. Moore, land damage on Grove street . . .	485.79
A. L. Walker & Son, land damage on Grove street . . .	359.97
A. L. Walker & Son, additional land damage on Grove street . . .	143.99
Sidney A. Blood, land damage on Grove street . . .	502.54
Austin Goings, land damage on Summer street . . .	1,366.44
John A. Kane, land damage, Cheney place . . .	153.43
A. A. Ainsworth, land damage, Young street . . .	291.00
A. A. Ainsworth, additional land damage, Young street . . .	291.00
John C. Ferguson, land damage, Elm street south . . .	75.00
John Muir, land damage, Belmont street . . .	162.82
Joseph Quirin, land damage, Belmont street . . .	280.71
P. McGranigan, land damage, Belmont street . . .	117.00
William L. Riley, land damage, Belmont street . . .	149.90
W. J. Poirier, land damage, Belmont street . . .	134.11
G. C. O'Malley, land damage, Belmont street . . .	263.28
P. H. O'Malley, land damage, Belmont street . . .	154.12
J. Mitchell, land damage, Belmont street . . .	261.96

Paid George Gouthier, land damage, Belmont street	\$129.96
Emma C. Barlow, land damage, Belmont street	496.94
— Dunbar, land damage, Belmont street	5.57
Margaret C. Golden, land damage, Belmont street	16.68
John Golden, land damage, Belmont street	158.47
Lydia M. Webster, land damage, Cheney place	240.07
John M. Stanton, land damage, Elm street south	246.81
James A. McKenzie, land damage, Elm street south	82.40
Fred A. Platts, land damage, Young street	18.15
J. L. Woodman, land damage, Young street	300.00
George Theobald, moving house and barn on B street	225.00
Louisa M. Prince, land damage, B street	211.20
Abbie M. Sawtelle, land damage, Brown avenue	167.18
Adelaide E. Smith, land damage, Brown avenue	20.20
Wheeler & Sloan, land damage, Auburn street west	700.71
Emma C. Barlow, land damage, Summer street	768.97
Alonzo Elliott, land damage, Somerville street	665.00
Lucia A. Clough, land damage	515.38
C. W. Noyes, land damage, B street	69.32

Paid Daniel L. Ordway, land damage, B street	\$5.11	
G. W. Platts & Son, land damage, Canton street	484.62	
Hannah Stevens, land damage, B street	589.97	
George B. Wheeler, land damage, Auburn street, west of Belmont street	42.46	
	<hr/>	
Total expenditures		\$11,601.73

Watering Streets.

Appropriation	\$3,000.00	
Amount transferred from reserved fund	988.43	
	<hr/>	\$3,988.43

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls, in district No. 2 :

January	\$48.62	
February	48.87	
March	49.24	
April	241.55	
May	253.75	
June	533.63	
July	484.37	
August	587.28	
September	173.50	
October	92.17	
November	23.99	
December	35.12	
	<hr/>	\$2,572.09

Labor and material on troughs and fountains	\$13.82	
Paid Chapman Valve Mfg. Co., 1 2-inch drip valve	5.38	
Manchester Hardware Co., paints and varnish, district 10	9.19	
A. H. Stark, paint and labor on sprinklers	3.25	
H. C. Ranno & Son, 2 quarts axle grease . . . . .	.40	
Pike & Heald, dippers, chains, and other materials and labor on fountains	181.69	
Paid J. B. McCrillis & Son :		
1 whiffletree	1.25	
New whiffletree hooks, eye bolts, links, repairing springs and collars, 5 lbs. Norway iron	6.45	
Painting water-cart	40.00	
Lettering water-cart	1.75	
Repairing water-cart	1.70	
Paid John T. Beach, repairing springs on sprinkler	4.75	
	<hr/>	\$519.54
Total expenditures		<hr/> \$3,988.43

Paving Streets.

Appropriation	\$5,500.00	
Amount transferred from reserved fund	2,040.11	
	<hr/>	\$7,540.11

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-roll, district No. 2 :	
January	\$3.50
March	10.50

April	\$29.87
May	408.67
June	404.41
July	526.30
August	606.17
September	180.99
October	227.42
November	93.18
	<hr/>
	\$2,491.01

Paid labor of men and teams, as per pay-roll, district
No. 7:

May	\$150.00
June	150.00
July	100.00
August	16.00
	<hr/>
	\$416.00

Paid labor of men and teams, as per pay-roll, district
No. 10:

May	\$86.40
June	217.73
July	119.63
August	722.76
September	140.50
October	175.69
November	21.84
December	4.50
	<hr/>
	\$1,489.05

Paid labor of men and teams, as per pay-rolls, in dis-
trict No. 11:

October	\$254.75
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TOOLS AND HARDWARE.

Paid John B. Varick Co., 2 66-foot tape measures	\$1.00
Killey & Wadleigh, 1 ball mason twine42

Paid Wadleigh Hardware Co., 1 stone-		
hammer and handle	\$1.37	
1 mattock hoe and handle . . . .	.95	
	<hr/>	\$3.74

PAVING STONE AND GRAVEL.

Paid W. H. Coburn, 24 loads stone	\$40.80	
Cavanaugh Bros., 6 loads stone	10.20	
H. C. Cunningham, 88 loads stone	44.00	
H. Faucher, 9 loads stone	15.30	
G. W. Higgins, 76 loads stone	129.20	
Charles P. Still, 10 loads stone	15.00	
Joseph Quirin, 20 loads stone	30.00	
H. M. Clough, 3 loads stone	5.10	
J. P. Brock, 8 loads stone	13.60	
Joseph Brown, 9 loads stone	15.30	
F. C. Campbell, 2 loads stone	3.40	
John Gott, 23 loads stone	39.10	
S. M. Hazelton, 9 loads stone	15.30	
E. C. Hoyt, 49 loads stone	83.30	
C. H. Robie Co., 71 loads stone	120.70	
George Whitford, 7 loads stone	11.90	
A. J. Wilkinson, 17 loads stone	28.90	
J. L. Fogg, 18 loads stone	30.60	
C. A. Brooks, 17 loads stone	28.90	
Alvin G. Bean, 25 loads stone	37.50	
John Proctor, 6 loads stone	10.20	
Addison Gray, 258 loads gravel	28.60	
Mrs. A. M. Lewis, 1 load cobble		
stones and labor stoning gutter	2.50	
Paid Charles A. Bailey :		
425 cubic feet covering stone	68.00	
153 feet 9-inch curbing	76.87	
7 circles, 4 ft. radius	31.50	
15 circles, 3 ft. radius	52.50	
9 feet 4-inch curbing	3.73	
	<hr/>	\$992.00

CONCRETE CROSSINGS AND OTHER WORK.

Paid estate of C. H. Robie :

Webster and Bay	30.22	yards.
North and Pine east back	13.33	“
Pennacook south back and Pine	17.77	“
Blodget and Pine	28.00	“
Blodget and Pine	30.22	“
Blodget and Pine	27.55	“
Blodget and Chestnut	32.00	“
Blodget and Chestnut	32.00	“
Walnut and Gove	32.00	“
Lake avenue and Wilson	29.33	“
Lake avenue and Wilson	23.11	“
Concord and Maple	30.22	“
Concord and Maple	30.22	“
Concord and Maple	21.33	“
Concord and Maple	21.51	“
Blodget south back and Union	17.77	“
Blodget and Union	32.00	“

 448.58 yards.

448.58 yards at 75c.	\$336.44
Lake avenue engine-house, 99 yards	44.55
Massabesic hose house, 409.75 yards	102.43
Pine-street walks for Mr. Brooks, 73.16 yards at 45c.	32.92
Pine-street walks for Mr. Cheney, 71.33 yards at 45c.	32.09

Paid George F. Higgins :

Kidder court and Elm, 35.976 yards	26.98
Chestnut east back and North, 18.22 yards	13.67
Chestnut and North, 38.33 yards	28.75
Pearl and Russell, 39.73 yards	29.80
Pearl and Russell, 35.88 yards	26.91

Pearl and Russell, 27.77 yards . . .	\$20.83
Pearl and Russell, 37.77 yards . . .	28.33
Maple and Amherst, 30.33 yards . . .	22.75
Maple and Amherst, 42.139 yards . . .	31.60
Amory and Cartier east back, 17.77 yards	13.33
Cartier and Amory, south side, 33.77 yards	25.33
Orange and Elm east back, 26.66 yards	20.00
Sagamore and Pine, 44.44 yards . . .	33.33
Sagamore and Pine, 36.66 yards . . .	27.55
Sagamore and Pine, 44.44 yards . . .	33.33
Sagamore and Pine, 37.77 yards . . .	28.33
Chestnut and Lowell south back, 17.77 yards	13.33
Pearl and Elm east back, north side, 17.77 yards	13.33
Central and Milton, 26.66 yards . . .	20.00
Central and Hall, 33.77 yards . . .	25.33
Lake avenue and Chestnut west back, 24.44 yards	18.33
Pearl, No. 38 to No. 42, one half of bill for 45.633 yards at 45c., \$20.53	10.26
Paid estate of C. H. Robie :	
543.027 yards at court-house, at 25c. .	135.75
17.77 yards crossing, Elm west back and Pleasant, at 37c.	6.57
25.7 yards crossing, Pleasant and Franklin, at 37c.	9.51
30 yards crossing, Central and Frank- lin, at 75c.	22.50
33 yards crossing, Central and Frank- lin, at 75c.	24.75
187.5 yards on Granite south of city yard, at 25c.	46.87

32.9 yards on Granite south of city yard, at 37c.	\$12.18
21 yards on Depot, north of city yard, at 37c.	7.77
64.22 yards on Depot, north of city yard, at 25c.	16.05
44.4 yards crossing, Ferry and Second, at 75c.	33.30
28.1 yards crossing, Main and Granite, at 37c.	10.40
70.7 yards sidewalk repairs, Dover and Granite, at 35c.	24.74
One half of 197,588 yards at James A. Weston's, at 75c., \$148.19	74.10
30.22 yards crossing, Orange and Linden, at 75c.	22.66
One half of 31 yards at No. 28 Nashua street, at 30c., \$9.30	4.65
39.1 yards crossing, Hanover and Hall	29.32
28 yards walk, P. Eaton's, Merrimack street	12.60
Paid C. H. Robie Co. :	
One half of 224.016 yards sidewalk on Hanover street, north side, front of First Congregational church, at 45c., \$100.80	50.40
15.5 yards crossing, Lowell and Union east back, south side, at 37½c. . . .	5.81
30.33 on Tremont square	13.65
29.99 yards, two crossings, Manchester and Hall	22.50
8.66 yards driveway at G. W. Rief's on Belmont street	3.20
92.88 yards crossing, Valley and Cypress	69.66
21.33 yards crossing, Merrimack and Wilson	16.00

18.33 yards at ward 5 ward-room	\$8.25	
150.66 yards on south Elm street bridge	75.33	
33.33 yards sidewalk on Elm, near Concord	14.99	
73.9 yards on South Main, near Piscat- aquog river bridge	36.95	
31.1 yards crossing, School and Third, at 50c.	23.32	
	<hr/>	\$1,893.56
Total expenditures		<hr/> \$7,540.11

Macadamizing.

Appropriation \$18,000.00

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls, in dis-
trict No. 2 :

March	\$37.00	
April	330.82	
May	1,254.75	
June	1,508.38	
July	995.91	
August	1,291.81	
September	1,401.16	
October	241.00	
November	182.68	
	<hr/>	\$7,243.51

Paid labor of men and teams, as per pay-rolls, in dis-
trict No. 10 :

April	\$18.00
May	56.05

June	\$90.03
July	140.75
August	150.50
September	118.00
October	19.50
November	11.00
December	2.48

\$606.31

STONE.

Paid John Alston, 19,620 lbs. stone	\$4.89
D. W. Atwood, 517,915 lbs. stone	129.46
Frank Bodwell, 116 loads stone	29.00
A. Boyce, 21,395 lbs. stone	5.34
L. W. Bartlett, 23,250 lbs. stone	5.81
J. A. Brown, 395,370 lbs. stone	98.80
Daniel Butterfield, 332,810 lbs. stone	83.17
S. A. Blood, 18,470 lbs. stone	4.61
Geo. Butterfield, 335,560 lbs. stone	83.87
N. Bournival, 379,915 lbs. stone	94.96
C. E. Bursiel, 448,885 lbs. stone	112.19
H. C. Cunningham, 3,310 lbs. stone . . . . .	.82
Wm. H. Colburn, 14,640 lbs. stone	3.66
Louis Cyr, 10,210 lbs. stone	2.54
J. G. Ellinwood, 31,300 lbs. stone	7.82
E. Emerson, 214,805 lbs. stone	53.69
F. R. French, 493,370 lbs. stone	123.32
James Fullerton, 732,740 lbs. stone	183.16
J. L. Fogg, 66,710 lbs. stone	16.67
J. J. Faucher, 131,215 lbs. stone	32.79
H. Faucher, 797,410 lbs. stone	199.33
Head & Dowst Co., 83,245 lbs. stone	20.80
C. N. Harvey, 31,800 lbs. stone	7.94
Geo. F. Higgins, 739,820 lbs. stone	184.95

Paid Hadley F. Higgins, 23,930 lbs. stone	\$5.98
H. L. Kimball, 397,495 lbs. stone	99.35
Joseph King, 50,875 lbs. stone .	12.71
Wm. G. Landry, 124,550 lbs. stone	31.13
Ira McDougall, 10,270 lbs. stone .	2.56
C. Manseau, 68,940 lbs. stone .	17.22
Hugo Paff, 248,440 lbs. stone .	62.09
Palmer & Garmon, 16 loads stone chips	12.00
Wm. Berwick, 38,090 lbs. stone .	9.52
John H. Proctor, 3,965 lbs. stone	.99
C. H. Robie, 332,950 lbs. stone .	83.23
Horace Willey, 389,955 lbs. stone	97.48
George Whitford, 72,255 lbs. stone	18.05
Willey & Rowe, 201 loads stone .	50.25
Philip White, 64,900 lbs. stone .	16.22
F. B. Worthley, 469,265 lbs. stone	117.28
C. H. Robie Co., 12,305 lbs. stone	3.07
C. H. Tyrrell, 530,835 lbs. stone .	132.69
Horace Holbrook, 102,890 lbs. stone	25.72
John P. Brock, 98,965 lbs. stone .	24.73
John C. Ray, 20,500 lbs. stone .	5.12
Dennis Morgan, 10,800 lbs. stone	2.70
P. Sway, 121,135 lbs. stone .	30.27
Joseph Tirrell, 120,365 lbs. stone .	30.08
C. A. Brooks, 33,220 lbs. stone .	8.30
E. W. Butterfield, 83,630 lbs. stone	20.90
Fred Campbell, 81,090 lbs. stone .	20.26
Adam Dickey, 190,150 lbs. stone .	47.52
E. C. Hoytt, 54,145 lbs. stone .	13.52
S. M. Hazelton, 87,330 lbs. stone	21.82
Wm. Morgan, 133,075 lbs. stone .	33.26
Timothy Shea, 35,925 lbs. stone .	8.98
G. O. Spencer, 25,630 lbs. stone .	6.40

Paid Dr. Sturtevant, 59,680 lbs. stone	\$14.91	
F. H. Taylor, 113,690 lbs. stone	28.41	
J. W. Tyrrell, 140,675 lbs. stone	35.16	
A. J. Wilkinson, 81,580 lbs. stone	20.39	
Warren Harvey, 7 feet 2-inch curb- stone	2.87	
Warren Harvey, 2 corner circles	15.62	
Warren Harvey, 20 feet edgestones	8.00	
W. T. Morgan, 15 loads stone chips	11.25	
	<hr/>	\$2,697.60

GAS, FUEL, FREIGHT, AND WATER.

Paid People's Gas-Light Co., 13 chald- rons coke	\$52.00	
Dunlap & Wason Coal Co., $\frac{1}{2}$ ton Cumberland coal	3.25	
Concord & Montreal R. R., freight on oil	2.68	
Water-Works, use of water, engine, and stone-crusher to January 1, 1893	30.00	
People's Gas-Light Co., gas . . . . .	.14	
	<hr/>	\$88.07

TOOLS AND HARDWARE.

Paid Killey & Wadleigh, 2 padlocks and 1 $\frac{1}{2}$ -inch bit	\$1.27	
Killey & Wadleigh, 200 bolts	1.16	
Paid John B. Varick Co. :		
Sperm oil, cast steel, wicking, wire nails, butts and screws, flax packing, wood wedges, cylinder oil, wrench, pick handles, lacing, belt punch, files, bolt clipper, two-bushel basket, and other hardware	37.84	
12 wheelbarrow trays	10 52	

1,230 elevator bolts, 1 x 1¼	\$24.60
179 lbs. band iron	5.37
120 lbs. hoop iron	4.38
15¼ feet suction hose	25.16
1 Edison diaphragm pump	26.00
2 couplings	9.00
1 strainer	4.00
2 spanners	1.75
26 lbs. tallow	2.08
Express	1.50
12 Lansing barrows	24.00
Paid Manchester Hardware Co., 1 12-	
inch R. B. file . . . . .	.20

—
\$178.83

LUMBER, CASTINGS, AND REPAIRS.

Paid L. M. Aldrich, filing saws	\$0.85
L. M. Aldrich, setting level vials . . . . .	.75
E. Gatz, lumber and labor at city yard	5.38
Paid J. Stickney :	
34½ feet 14-inch double leather belt-	
ing	59.66
Putting on double belt	1.50
10 lbs. belt dressing	2.50
42½ feet 6-inch double leather belt-	
ing	30.69
6 yards ¾ English duck	2.40
1½ lbs. rubber packing . . . . .	.38
Paid Farrell Foundry & Machine Co., 1	
pair 15 x 9 plates, 680 lbs., at	
3½c.	23.80
planing	3.00
Paid Thomas A. Lane :	
20 feet 1-inch hose	4.00
2 patented bands . . . . .	.30

Labor	\$0.20
1 3 L. Nip . . . . .	.48
Paid James Briggs, 10 tin boxes for crusher	3.00
James Briggs, 1 tin boiler	1.75
Head & Dowst Co., 2 feet 5 x 6 spruce, and planing . . . . .	.47
Farrell Foundry & Machine Co., 1 set 15 x 9 steel bearings	12.70
Paid C. H. Hutchinson :	
146 hours' labor on patterns, fitting scoop and iron, repairing crusher, fitting pulley and roller links, etc.	58.70
637 lbs. castings, pulleys, etc.	19.71
Steel . . . . .	.08
5 lbs. babbitt	1.25
Iron and rivets . . . . .	.17
Lumber	4.00
1 steam gauge	6.00
182 lbs. castings for crusher	5.46
Paid S. C. Forsaith Machine Co. :	
96 feet spruce, city yard	1.54
1,007 feet fence boards, city yard	16.11
45 feet pine 1½ x 7⁄8, city yard	1.13
100 chestnut posts	20.00
5 feet hard wood on crusher . . . . .	.25
11 hours' labor on crusher	4.40
9 lbs. brass gibbs	3.15
14½ hours' labor on gibbs and pattern	5.80
5 hours' labor on crusher apron	2.00
1 new No. 6 crank shaft for crusher	55.00
21 hours' labor on same	8.40
Freight on same	2.50
Paid Thomas L. Thorpe, 50 lbs. cop waste	5.00
Concord & Montreal R. R., freight	1.94

Paid Vacuum Oil Co., 27 gallons oil and barrel	\$18.55	
Farrell Foundry & Machine Co., 1 pair 15 x 9 plates, 680 lbs., at 3½c.	23.80	
Farrell Foundry & Machine Co., planing	3.00	
	<hr/>	\$421.65

CONCRETE.

Paid estate of Charles H. Robie, concrete work on Union, from Concord to Amherst, 1,170.17 yards at \$1	\$1,170.17
12.33 yards, at 45c.	5.55
Paid C. H. Robie Co.:	
Concreting Amherst to Hanover, 946.51 yards, at 75c.	709.88
Concreting on Hanover, 1,409.9 yards, at 75c.	1,057.43
166.2 yards, at 45c.	74.79
Concrete work on Union street side of Hanover-street church property, 188.65 yards, at 25c., \$47.16; 85.82 yards, at 45c., \$38.61; total, \$85.77. One half paid by city	42.88
Concreting roadway on West, north of Douglas, 331.44 yards	248.58
Concreting roadway on Maple, 1,788.4 yards	1,341.30
Concreting walks, Lake-avenue school-house, 84.35 yards	21.09
Concreting crossing, Elm east back	6.55
Concreting crossing, Douglas and West, 21.3 yards	15.97
Concreting crossing, Wayne to Main, 59.6 yards	21.32

Concreting crossing, Marion and Main, 28.4 yards	\$10.50	
Concreting crossing, Marion and Main, 28.4 yards	21.30	
Concreting crossing, Amory and Main, 56.8 yards	42.60	
Concreting crossing, Marion and Mc- Gregor west back, 17.5 yards	13.12	
Concreting crossing, Arlington and Russell, 29.77 yards	22.33	
	<u> </u>	\$4,825.36

SUNDRIES.

Paid Hartford Steam Boiler Inspection and Insurance Co., policy No. 18,647, for one year		\$22.50
Total expenditures		\$16,083.83
Amount transferred to reserved fund		<u>1,916.87</u>
		\$18,000.00

Grading for Concrete.

Appropriation	\$5,000.00	
Amount transferred from reserved fund	<u>1,064.90</u>	
		\$6,064.90

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls, dis- trict No. 2 :		
January	\$324.38	
February	486.23	
March	306.63	

April	\$187.72	
May	152.48	
June	166.82	
July	118.38	
August	184.94	
September	302.39	
October	317.01	
November	163.63	
December	278.28	
	<hr/>	\$2,988.89

Paid labor of men and teams, as per pay-rolls, district No. 7:

May	\$50.00	
July	25.00	
September	175.00	
December	12.25	
	<hr/>	\$262.25

Paid labor of men and teams, as per pay-rolls, district No. 10:

January	\$119.50	
February	242.75	
March	94.50	
April	115.50	
May	59.56	
June	195.55	
July	182.13	
August	158.96	
September	235.25	
October	64.62	
November	177.09	
December	335.30	
	<hr/>	\$1,980.71

Paid labor of men and teams, as per pay-rolls, district No. 11:

December	\$140.25
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SAND AND GRAVEL.

Paid Mary A. Hartshorn, 399 loads sand	\$39.90	
George Higgins, 88 loads sand	8.80	
C. B. Sturtevant, 97 loads gravel	24.25	
	<u> </u>	\$72.95

SUNDRIES.

Paid Pettee & Adams, 6 bags salt	\$5.10	
S. C. Forsaith Machine Co., 378 feet spruce	6.05	
	<u> </u>	\$11.15

STONE.

Paid Frank S. Bodwell:		
44½ feet edgestone at 40c.	\$17.80	
10 4-foot circles at \$6.00	60.00	
7 3-foot circles at \$3.50	24.50	
16 feet edgestone at 40c.	6.40	
	<u> </u>	\$108.70
Total expenditures		\$5,564.90
Amount transferred to reserved fund		<u>500.00</u>
		\$6,064.90

Scavenger Teams.

Appropriation	\$11,000.00	
Amount transferred from reserved fund	4,555.31	
	<u> </u>	\$15,555.31

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls, district No. 2:		
January	\$625.26	
February	906.79	

March	\$698.52
April	838.44
May	819.51
June	1,068.87
July	977.07
August	1,309.10
September	1,277.84
October	1,252.10
November	1,235.34
December	997.93
	<hr/>
	\$12,006.77

Paid labor of men and teams, as per pay-rolls, district No. 10 :

January	\$108.00
February	134.25
March	109.50
April	171.75
May	170.62
June	135.00
July	133.00
August	135.32
September	241.75
October	196.50
November	137.00
December	119.44
	<hr/>
	\$1,792.13

ON CONTRACT AS SCAVENGER.

Paid H. E. Vaughan, as contractor from
 January 1 to June 9, 1892, inclusive \$839.19

Paid William H. Carpenter, as contractor from June 9 to June 30, 1892 93.32

July	133.33
August	133.33
September	133.33

October	\$133.33	
November	133.33	
December	133.33	
	<u> </u>	\$1,732.49

TOOLS.

Paid Killey & Wadleigh, 2 4-tine forks	\$1.00	
Paid Manchester Hardware Co. :		
2 steel rakes, 14-tooth . . . . .	.90	
2 mattocks and handles	2.00	
4 steel rakes, 16-tooth	2.40	
1 4-tined manure fork . . . . .	.50	
12 ruby lanterns	7.00	
3 files . . . . .	.38	
1 saw	1.75	
Other hardware	2.09	
Paid John B. Varick Co., 1 shovel . . . . .	.60	
John B. Varick Co., 1 fork . . . . .	.65	
H. C. Ranno & Son, repairs on harnesses, etc.	4.65	
	<u> </u>	\$23.92
Total expenditures		<u>\$15,555.31</u>

Street-Sweeping.

Appropriation	\$1,200.00	
Amount transferred from reserved fund	93.79	
	<u> </u>	\$1,293.79

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls, in district No. 2 :	
April	\$88.25
May	101.90
June	103.50

July	\$153.68	
August	192.43	
September	74.74	
October	129.12	
November	199.80	
	<hr/>	\$1,043.42

Paid labor of men and teams, as per pay-rolls, in district No. 10 :

April	\$42.00	
June	27.10	
July	40.00	
November	36.00	
	<hr/>	\$145.10

SUNDRIES.

Paid James Briggs, repairs on sweeper	\$3.68	
C. H. Hutchinson, 86 $\frac{3}{4}$ hours' labor, repairs on sweeper	34.70	
C. H. Hutchinson, 18 lbs. old iron . . . . .	.54	
John B. Varick Co., 1 reflector lantern . . . . .	.75	
S. C. Forsaith Machine Co., 4 hours' labor on sweeper	1.60	
S. A. Felton & Son, 1 street sweeper refilled	32.00	
S. A. Felton & Son, 1 street sweeper refilled	32.00	
	<hr/>	\$105.27
		<hr/>
Total expenditures		\$1,293.79

Lighting Streets.

Appropriation \$40,000.00

EXPENDITURES.

ELECTRIC LIGHTS.

Paid Manchester Electric Light Co.:

	Charges.	Discounts.
January	\$2,476.50	\$1.13
February	2,992.28	8.13
March	2,823.15	2.59
April	3,017.85	1.12
May	2,920.50	4.78
June	3,026.10	3.00
July	2,945.57	1.66
August	3,147.88	3.57
September	3,158.05	5.36
October	3,077.37	2.81
November	3,191.24	5.30
December	3,084.95	4.50
	<u>\$35,861.44</u>	<u>\$43.95</u>

Total discounts de-
ducted 43.95

\$35,817.49

GAS.

Paid People's Gas-light Co.:

January	\$103.74
February	97.02
March	82.04
April	79.66
May	70.28
June	64.68
July	56.28

August	\$54.74
September	60.06
October	64.12
November	79.10
December	79.66
	<hr/>

\$891.38

CARE OF GAS AND OIL LIGHTS.

Paid People's Gas-light Co., for lighting, extinguishing, and care of gas and oil street lights:

January	\$140.81
February	133.37
March	150.62
April	123.50
May	167.17
June	118.75
July	162.37
August	137.75
September	112.00
October	166.50
November	147.35
December	139.92
	<hr/>

\$1,700.11

SUNDRIES.

Paid People's Gas-light Co.:

17 barrels kerosene oil	\$71.59
7 barrels kerosene oil	27.42
9 barrels kerosene oil	36.15
2 gallons whisky	4.50
Matches (of Eager & Rand)	2.98
2 gallons sperm oil	2.00
2 gallons sperm oil	2.00
1 6-quart oil can	1.15
1 4-quart oil can . . . . .	.84
1 glass cutter . . . . .	.15

1 can	\$0.25
1 box glass, 10 x 12	2.38
2 boxes glass, 12 x 14	5.85
2 boxes glass, 12 x 14	5.40
1 box glass, 12 x 12	2.25
Soap and glycerine	4.30
Paid Clark M. Bailey, chimneys, burn- ers, wicks	165.65
C. H. Hutchinson, repairing torch, three times	1.87
Pike & Heald, 1 oil can . . . . .	.60
	<hr/>
	\$337.33
Total expenditures	\$38,746.31
Amount transferred to reserved fund	1,253.69
	<hr/>
	\$40,000.00

Bridges.

Appropriation	\$2,500.00
Amount transferred from reserved fund	1,133.68
	<hr/>
	\$3,633.68

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls, district No. 2 :

January	\$112.19
February	111.30
March	31.06
April	96.49
May	135.38
June	12.87
July	65.81
August	47.38

September	\$36.63	
October	68.66	
November	201.88	
December	<u>76.39</u>	\$996.04
Paid labor of men and teams, as per pay-rolls, district No. 6:		
August		\$76.25
Paid labor of men and teams, as per pay-rolls, district No. 9:		
June		\$15.00
Paid labor of men and teams, as per pay-rolls, district No. 10:		
April	\$4.50	
June	<u>36.85</u>	\$41.35
Paid labor of men and teams, as per pay-rolls, district No. 11:		
May		\$68.25

LUMBER.

Paid Head & Dowst Co. :		
13,516 feet hemlock, at \$14, districts 2 and 11		\$179.59
4,201 feet spruce at \$16, districts 2 and 11		67.21
300 feet Georgia pine, districts 2 and 11		11.40
417 feet 10 x 10 chestnut, at \$25, district 9		10.43
175 feet 10 x 10 hemlock, at \$14, district 9		2.49
620 feet 3-inch spruce at \$16, district 2		9.92
Lumber for bridge, district 8		230.90
384 feet 3 x 12 spruce, McGregor bridge		6.14

534 feet 10 x 10 spruce	\$8.54	
Paid Gilman Clough, 39,489 feet plank	552.84	
L. A. Clough, 41,919		
feet hemlock plank . . . \$503.02		
less freight 37.60		
	<hr/>	465.42
Paid S. C. Forsaith Machine Co. :		
1,000 feet 1¼ hard pine, Granite bridge	25.00	
500 feet hard pine	12.50	
413 feet hard pine	10.33	
1,017 feet spruce plank	16.27	
2,842 feet spruce plank	48.38	
594 feet 8 x 10 spruce	9.50	
Paid A. C. Wallace, 9,908 feet 3-inch		
hemlock plank	128.80	
David Wells, 5 stringers 12 x 14 x		
24 feet, at \$5, for bridge over		
Black brook, district 11	25.00	
	<hr/>	\$1,820.66

HARDWARE.

Paid Killey & Wadleigh, 1 cask 6-inch		
wire spikes	\$2.75	
Killey & Wadleigh, 1 cask 6-inch		
wire spikes	2.75	
Killey & Wadleigh, 2 handled axes	2.00	
Manchester Hardware Co., 1 hand		
ax . . . . .	.85	
Manchester Hardware Co., nails	3.10	
Paid John B. Varick Co. :		
6 casks 7-inch wire spikes	13.50	
4 casks 6-penny wire spikes	9.00	
25 lbs. 7-penny wire nails . . . . .	.63	
23 lbs. 10-penny wire nails . . . . .	.63	
1 11½-lb. hammer . . . . .	.50	
1 ax . . . . .	.90	

BRIDGES.

513

1 ax handle	\$0.25	
2 files	1.00	
1 cask 60-penny wire nails	2.00	
1 1/2 kegs wire spikes and nails, district 6	3.85	
4 lanterns and ruby globes, district 6	2.60	
15 lbs. wire nails . . . . .	.45	
2 kegs 60-penny wire nails	4.00	
1 ax . . . . .	.75	
Other hardware	4.19	
Paid A. N. Clapp, 25 lbs. spikes . . . . .	.75	
A. N. Clapp, 1 keg spikes	2.25	
A. N. Clapp, 90 lbs. nails	2.03	
Wadleigh Hardware Co., 6 casks 60-penny nails	12.30	
	<hr/>	\$73.03

BLACKSMITHING.

Paid James Morrison, fixing staples, district 6	\$1.25	
James Morrison, 20 new irons, district 6	4.00	
James Morrison, fixing bolts, district 6 . . . . .	.25	
	<hr/>	\$5.50

FREIGHT.

Paid Boston & Maine Railroad, freight on lumber	\$16.00	
Concord & Montreal Railroad, freight on lumber	21.60	
	<hr/>	\$37.60
Total expenditures		\$3,133.68
Amount transferred to reserved fund		500.00
		<hr/>
		\$3,633.68

City Teams.

Appropriation	\$5,000.00	
Amount transferred from reserved fund	<u>1,129.08</u>	\$6,129.08

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls, district No. 2 :

January	\$127.87	
February	143.99	
March	121.37	
April	118.88	
May	121.75	
June	157.40	
July	137.38	
August	157.67	
September	140.51	
October	135.96	
November	179.64	
December	<u>163.18</u>	\$1,705.60

OATS, CORN, FEED, HAY, AND STRAW.

Paid Adams & Tasker :

Oats	\$207.50
Corn	66.01
Feed	38.40
Hay	55.85
Straw	60.29
Bran	11.90
Salt	<u>7.89</u>

Paid H. H. Freeman :

Rye straw	\$37.90
Oats	18.40
Feed	6.30
Shorts	1.90

Paid Merrill & Freeman :

Oats	202.15
Corn	59.20
Bran	11.11
Feed	30.48
Rye straw	46.22

Paid Henry W. Parker :

Oats	152.80
Corn	34.00
Meal	2.88
Feed	21.15
Salt . . . . .	.15
Bran	3.85

Paid Partridge Brothers :

Oats	243.00
Corn	72.30
Feed	22.80
Shorts	6.20
Hay	80.43

Paid Pettee & Adams, oats

19.00

Pettee & Adams, feed

8.40

Pettee & Adams, bran

2.40

George Butterfield, hay

84.57

Paid Clarence R. Merrill :

Corn	2.30
Oats	23.50
Feed	7.35
Bran	2.00

Paid A. Emery, hay

8.03

A. L. Hadley, hay

142.30

H. A. Horton, carrots

9.26

Paid H. S. Plummer, hay	\$156.00	
George M. Bean, carrots	18.02	
Leonard Shelters, hay	26.77	
B. E. Thompson, hay	85.53	
E. W. Stevens, hay	22.10	
Isaac Whittemore, hay	27.77	
C. D. Welch, hay	113.71	
B. W. Hill, straw	29.07	
D. H. Dickey, straw	19.68	
City farm, hay	76.31	
D. H. Young, hay	29.87	
Thomas Burns, hay	21.40	
O. C. Lord, hay	12.45	
	<hr/>	\$2,448.85

BLACKSMITHING.

Paid D. F. Cressey, horseshoeing . .	\$9.00	
Conner & Grossman, horseshoeing	137.40	
Thomas Hickey, horseshoeing . .	271.50	
Mahaney & McSweeney, horseshoe- ing	50.90	
	<hr/>	\$468.80

HARNESSES AND REPAIRS.

Paid Frederick Allen :		
2 horse blankets	\$13.00	
1 team collar	4.50	
2 stable blankets	6.00	
Blacking and harness dye	1.50	
Paid F. N. McLaren, 1 pair 1¼-inch hame sockets	1.00	
Paid Thomas P. Riley :		
Repairing harnesses	59.37	
2 pairs reins	7.50	
2 pairs reins	8.00	
Bells	3.00	

1 pair reins	\$3.50	
1 halter	2.25	
Bit	1.00	
1 pair reins	3.50	
Bells	1.75	
Blankets	2.25	
Brushes	5.00	
Horse cover	3.50	
Horse brush	3.00	
1 pair traces	16.00	
2 bridles	13.50	
2 pair side straps	8.00	
Other articles	72.25	
Paid Kimball Carriage Co., 1 blanket	7.00	
Kimball Carriage Co., 1 leather blanket	3.00	
Kimball Carriage Co., 1 collar	12.00	
Paid N. J. Whalen :		
1 heavy horse cover	4.50	
8 letters for bridle	1.00	
1 pair team harnesses	75.00	
Repairing and oiling harnesses	12.10	
Paid The Ranno Harness Co., repairing harnesses	2.85	
	<hr/>	\$356.82

REPAIRS ON CARRIAGES AND NEW CARRIAGES.

Paid Sanborn Carriage Co., repairs on whiffletree	\$1.20
John T. Beach, repairs on carts, etc.	166.15
John T. Beach, 1 horse dump cart	110.00
Paid J. B. McCrillis :	
1 dump cart	110.00
Patent gear	12.00
New tires	6.00
Other work	15.80

Paid A. Filion, new tail board for cart	\$2.25	
A. Filion, new shaft for cart	2.15	
		\$425.55

HARDWARE.

Paid Killey & Wadleigh, turpentine, paint, and varnish	\$14.45	
Killey & Wadleigh, 1 coil spring . . . . .	.25	
Killey & Wadleigh, 14 bolts . . . . .	.62	
Manchester Hardware Co., 50 feet ¾-inch hose	4.50	
Manchester Hardware Co., 25 feet ¾-inch hose	2.25	
Manchester Hardware Co., other hardware	20.41	
Clark M. Bailey, 6 rattan filled brooms	3.00	
Pike & Heald, 6 lantern globes . . . . .	.72	
Pike & Heald, 1 coffee boiler	6.50	
Pike & Heald, pipe, coupling, etc.	2.74	
John B. Varick Co., stable brooms, saw handles, soap, wire nails, screws, bolts, Norway iron, 2 whips, axle grease, plow points, sponge, padlock, hinges, etc.	68.82	
Wadleigh Hardware Co., 2 fibre pails, 1 chamois skin	1.25	
		\$125.51

MEDICINES AND MEDICAL SERVICES.

Paid A. W. Baker, dentistry work on nine horses	\$18.00
E. H. Currier, 6 large bottles Wil- liams's Sure Cure	3.50
J. L. Golden, services at sundry times as veterinary surgeon	166.45

CITY TEAMS.

519

Paid Pulsifer Chemical Co., 3 gallons Positive Healer	\$12.25	
Smith & Goold, 1½ dozen Gray's Lotion	9.00	
Z. Foster Campbell, medicine	1.90	
	<hr/>	\$211.10

WATER, GAS, TELEPHONE, FUEL.

Paid New England Telegraph & Tele- phone Co., use of telephone	\$36.00	
People's Gas-Light Co., gas at sta- bles and office	100.94	
Water-Works, use of water at sta- bles	45.00	
L. B. Bodwell & Co., 10,070 lbs. egg coal	31.46	
L. B. Bodwell & Co., 6,245 lbs. egg coal	19.49	
Dunlap & Wason Coal Co., 10,160 lbs. Lehigh coal	30.23	
	<hr/>	\$263.12

SUNDRIES.

Paid Head & Dowst Co. :		
Lumber at city yard	\$7.47	
Pine sheathing for door . . . . .	.56	
5 hours' labor	1.25	
Lumber and labor	5.89	
Paid E. T. James, horse and buggy to Pembroke	3.50	
E. T. James, horse and buggy around town	47.00	
Mrs. E. G. McKean, rent of stable from April 1, 1892, to January 1, 1893	18.00	
Thomas A. Lane, 12 lava tips . . . . .	.10	

Paid Thomas A. Lane, 2 $\frac{1}{4}$ x $\frac{1}{8}$ pendant cocks	\$0.68
Thomas A. Lane, 6 $\frac{1}{4}$ x $\frac{1}{8}$ pendant cocks	1.80
McQuade Bros., 2 gallons vinegar . . . . .	.40
McQuade Bros., soap and salt	2.65
Manchester Street Railway, tickets	9.00
Whitten & Fifield, use of team	1.50
Allen N. Clapp, 51 gallons kerosene	4.08
John Driscoll, galvanized pan, etc.	4.75
Adams & Tasker, $\frac{1}{2}$ cask lime . . . . .	.48
G. W. Hamlin, setting glass	3.72
John Bryson, setting glass	1.00
Henry W. Parker, 2 casks lime	2.00
Pike & Heald, putty, copper wire, and labor	1.35
Pike & Heald, 1 water pot	1.00
Pike & Heald, brick for stove, etc.	2.25
S. C. Forsaith Machine Co., 95 feet oak and sawing	3.05
Concord & Montreal R. R., freight on oil . . . . .	.25
	<hr/>
	\$123.73
Total expenditures	\$6,129.08

Sewers and Drains.

Appropriation	\$30,000.00
Transferred from reserved fund	9,724.65
	<hr/>
	\$39,724.65

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls, district No. 2 :	
January	\$178.58
February	277.30

March	\$271.34
April	204.03
May	751.69
June	2,510.41
July	2,158.92
August	2,542.11
September	2,287.81
October	1,360.96
November	571.91
December	291.66
	<hr/>
	\$13,406.72

Paid labor of men and teams, as per pay-rolls, district No. 10:

January	\$55.50
February	76.75
March	39.50
April	38.25
May	748.20
June	3,178.99
July	2,224.34
August	3,434.58
September	2,957.26
October	2,733.40
November	1,027.10
December	200.38
	<hr/>
	\$16,714.25

TOOLS.

Paid George Ames, 2 16-foot ladders at 12½c.	\$4.00
W. P. Farmer, 8 pairs rubber boots	24.00
Paid J. Stickney:	
3 pairs rubber boots	8.50
3 oil suits	6.75
3 hats	1.50
2 oil suits	5.00

Paid Clark M. Bailey, 2 doz. lanterns and red globes	\$20.00
Clark M. Bailey, lanterns, globes, oil cans, pails	15.15
Paid John B. Varick Co. :	
1 No. 3 steel scraper with runners, dis- trict 2	9.00
12 picks and 12 handles, district 2	9.75
1 No. 3 steel road scraper, district 10	7.50
3 long mattocks, district 10	1.80
Repairs on battery, and express, dis- trict 10	4.75
1 No. 52 bulldog vise, district 10	6.00
12 plug drills, 23 lbs., district 10	4.14
4 trays for canal barrows, district 10	4.00
1 forge, district 10	18.00
1 anvil, 156 lbs., district 10	16.38
1 Edson diaphragm pump, district 10	26.00
27 feet suction hose, district 10	44.55
2 sets couplings, district 10	9.00
1 brass strainer, district 10	4.00
23 lbs. plug drills, district 2	4.14
33 lbs. manilla rope, district 2	4.12
12 L. H. round-point shovels, district 2	8.50
12 L. H. square-point shovels, district 2	8.50
Cast steel, Norway iron, cut nails, files, gimlets, tape measures, manilla rope	44.85
Sledge handles, shovels, tongs, chisels	63.73
Wrenches, rivets, iron jack chains	43.22
pulley block and other hardware	84.51
Paid Killey & Wadleigh, 6 cesspool scoops	4.50
Killey & Wadleigh, 2 long-handled spades	1.30
Killey & Wadleigh, 36 ruby globes	22.00
Paid Wadleigh Hardware Co. :	
12 fibre water pails	2.38

12 H. pick handles	\$2.00
8 lbs. ½-inch manilla rope	1.00
12 shovels	10.50
6 scoop handles	1.80
2 pair steam drills	8.50
18 round-point shovels	16.50
Paid Manchester Hardware Co. :	
12 Harvey picks, district 10	12.00
24 hickory handles, district 10	6.00
12 lanterns with red globes, district 10	9.00
1 2-foot rule, district 10	1.00
6 street brooms, district 10	4.00
2 rattan stable brooms, district 10 . . . . .	.90
1 hand saw, district 10	1.50
12 round-point shovels, district 10	11.00
Bit brace and 2 sets bits, district 10	4.50
12 round-point shovels, district 10	7.50
12 hickory pick handles, district 12	3.00
Other hardware, district 10	44.89
Paid Pike & Heald, 6 vault scoops	7.80
Allen N. Clapp, oil, nails, wicks, matches, ax, tallow, soap, etc.	60.58
G. W. Dodge, 3 pairs rubber boots	6.75
George L. Robinson, 1 pair rub- ber boots	3.25
George L. Robinson, 2 pairs rub- ber boots	6.00
	<hr/>
	\$761.49

EXPLOSIVES.

Paid Wadleigh Hardware Co. :	
150 lbs. No. 1 forcite, district 10	\$56.00
150 plat. fuse, district 10	5.51
200 feet common wire, district 10	1.00
Powder, fuse, forcite, etc., district 2	39.39
50 plat. fuse	1.88

Forcite, fuse, etc., district 10 . . .	\$42.26	
“ “ “ “ 2 . . .	51.66	
“ “ “ “ 10 . . .	30.68	
Paid Manchester Heating and Lighting Co., 2¾ lbs. wire for blasting . . .	1.60	
	<hr/>	\$229.98

SEWER PIPE.

Paid Portland Stone Ware Co., sewer pipe, per contract	\$3,588.63
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MATERIALS, LABOR, ETC.

Paid C. H. Hutchinson :	
12 grates, 1,162 lbs., at 3c.	\$34.86
1 lantern hole and cover, 170 lbs., at 3c.	5.10
2¼ hours repairing steam pump . . . . .	.90
3 lantern holes and covers, 538 lbs.	16.14
11 hours' labor on drills and staples	4.40
1 hour's labor . . . . .	.20
4 lbs. iron . . . . .	.12
2 lantern holes, 338 lbs., at 3c.	10.14
Paid Manchester Locomotive Works :	
12 traps 936 lbs.	
16 flat grates 1,576 "	
1 manhole and cover 590 "	
1 manhole and cover 144 "	
	<hr/>
3,246 lbs., at 3c.	97.38
12 hooks to pattern, 16 lbs. . . . .	.48
24 brass rivets, 8 lbs.	2.40
1 day's labor	4.00
12 manholes and covers, 5 grates, 6,070 lbs., at 2½c.	144.16
12 hooks, 15 lbs. refined iron . . . . .	.45
11 hours' labor	4.40
5,781 lbs. castings, manholes, covers, traps	158.64

4 lbs. brass castings	\$1.00
4,969 lbs. manholes, covers, traps, grates	118.01
9,625 lbs. manholes, covers, traps, grates	228.59
3,518 lbs. manholes, covers, traps, grates	83.55
12 hoods, 15 lbs. refined iron . . .	.45
12 hours' labor on hoods	4.80
907 lbs. traps and grates at $2\frac{3}{8}$ cents.	21.54
Paid Concord Foundry Co.:	
6 manhole castings	48.00
6 manhole castings	48.00
6 manhole castings	48.00
6 No. 18 base and grate	30.00
6 No. 18 traps	15.75
6 No. 16 base and grate	6.00
1 No. 16 trap	1.88
Paid Thomas A. Lane :	
Repairing steam pump . . . . .	.40
1 1-inch heavy hose band . . . . .	.40
9 feet 2-inch pipe	1.35
1 piece for Edson pump	2.25
Labor on Edson pump	1.20
1 8-inch Akron Y . . . . .	.81
1 $1\frac{1}{4}$ -inch hose band . . . . .	.20
Labor . . . . .	.10
Glass and labor on street lantern . .	1.55
Labor of 2 men 4 hours on steam drill	2.40
Material and labor, Hallsville sewer, etc.	14.32
48 feet 8-inch Akron pipe, district 10	8.64
2 3-inch suction hose, 12-	
foot lengths	\$48.00
2 set 3-inch hose coupling	7.00
1 8-inch Akron Y	2.02
6 8-inch Akron curves	10.80

20 feet steam hose, wound, district 10	\$20.88	
50 feet $\frac{3}{4}$ -inch hose	7.00	
3 8-inch Akron curves	5.40	
Other work	2.59	
	<hr/>	
	\$103.69	
60 per cent of \$18.23	10.93	
	<hr/>	\$92.76
Paid S. C. Forsaith Machine Co.:		
Repairing steam pump		6.40
Packing, bolt, water glass, nipple		1.13
1 padlock, rivets, and Norway iron		1.42
23 hours' labor on sewer cover		9.20
1 11-pound gear . . . . .		.39
3 $\frac{1}{2}$ hours' labor		1.40
134 feet white oak		5.36
Paid A. Filion, iron, wood, etc., for tool		
house		6.45
A. Filion, drilling casting . . . . .		.20
P. Duval, filing saws		7.50
J. T. Beach, repairing sewer trap . . . . .		.60
Allen N. Clapp, oil, etc.		18.60
J. B. McCrillis & Son, 1 pair $\frac{3}{4}$ cart-wheel drags		58.96
J. B. McCrillis & Son, other work		16.90
Palmer & Garmon, 15 hours' labor		6.75
Thos. A. Lane Co., pipe, hose, fit- tings, etc., for boiler		20.81
Thos. A. Lane Co., steam gauges, etc.		6.19
Thos. A. Lane, new glass in 3 lan- terns, and repairing same		4.00
H. C. Ranno & Son, pump washers and repairing tape . . . . .		.25
Adams & Tasker, 4 lbs. marline . . . . .		.12
McQuade Brothers, 2 pails . . . . .		.90
McQuade Brothers, tallow . . . . .		.77

Paid T. L. Thorpe, 16 lbs. waste	\$1.60	
Albert Moulton, water barrels for blacksmith shop	1.95	
	<u> </u>	\$1,443.57

BLACKSMITHING.

Paid D. F. Cressey, iron work and shar- pening tools	\$13.84	
Connor & Grossman, sharpening picks	4.50	
	<u> </u>	\$18.34

CEMENT, BRICK, STONE, LUMBER.

Paid Merrill & Freeman, 355 barrels ce- ment, district 10	\$493.09	
Merrill & Freeman, 199 barrels ce- ment, district 2	271.39	
Adams & Tasker, 94 barrels cement	131.11	
Adams & Tasker, 3 barrels lime	2.80	
W. F. Head & Son, 140,000 brick at \$6	840.00	
Pike & Heald, 26 feet Akron pipe, 8-inch	4.16	
Frank S. Bodwell, 64 cesspool stones	188.00	
Frank S. Bodwell, 2 ft. edgestones	11.20	
Frank S. Bodwell, 2 3-foot circles	9.00	
Paid Head & Dowst Co.:		
184 feet spruce	2.95	
2 level glasses . . . . .	.20	
35 feet Michigan pine	1.75	
5,200 brick	44.20	
8,940 feet spruce at \$16	143.04	
4,426 feet spruce at \$16, district 10	70.82	
1,200 U. D. brick, district 10	8.00	
300 hemlock boards at \$14, district 2	4.20	

100 laths	\$0.28
Labor on steam drill, district 2	10.00
13,263 feet spruce boards, plank, and joist, district 2	212.21
3,323 feet spruce, district 2	53.17
2,400 brick	20.40
4,800 brick	34.00
Paid S. C. Forsaith Machine Co.:	
2,018 feet spruce plank, Bridge and Wilson	32.29
2,004 feet spruce plank, Bridge and Wilson	32.06
1,000 feet spruce plank, shoe-shop sewer	16.00
1,093 feet spruce	17.49
Paid A. C. Wallace:	
9,562 feet spruce at \$16	152.99
184 feet pine at \$24	4.42
Sawing hard wood . . . . .	.75
1,020 feet spruce plank	16.32
8 feet Michigan pine . . . . .	.28
1,548 feet spruce	24.71
Paid Amoskeag Manufacturing Co., 50 feet Georgia pine, district 10	
James Baldwin Co., 74 feet rock maple plank at \$40	2.96
A. J. Sawyer, 1,494 feet spruce	23.90
Martin Fitzgerald, cutting stone at city yard	3.15
Palmer & Garmon, 40 $\frac{3}{4}$ hours' labor cutting stone on car	18.33
	<hr/>
	\$2,903.12

FREIGHT.

Paid Concord & Montreal R. R. :	
Freight on 42,000 brick	\$33.60
Freight on castings from Boston	1.66

Freight on castings from Concord	\$1.44	
Freight on 49,000 brick	39.20	
Freight on 14,000 brick	11.20	
Freight on castings from Concord	1.38	
Freight on 18,000 brick	16.80	
Freight on 35,000 brick	28.00	
Paid Pierce F. Lanegan, four-horse team hauling 24-inch pipe from Al- bany street to depot	12.00	
Boston & Maine R. R., freight on pipe	399.00	
J. W. Wilson, freight and trucking castings	5.16	
	<hr/>	\$549.44

SUNDRIES.

Paid William E. Williams, repairing roof C. C. Rowe's house	\$2.05	
E. P. Johnson Co., 1¼ tons Cum- berland coal	8.50	
A. & D. M. Poore, ½ ton Cumber- land coal	3.20	
H. Fradd & Co., 16 lbs. tallow . . . . .	.74	
H. Fradd & Co., pail . . . . .	.45	
J. F. Wyman, 14,435 lbs. Cumber- land coal	40.25	
Dunlap & Wason Coal Co., 10,750 lbs. Cumberland coal	35.04	
Fred G. Stark, 2½ loads bundle brush	5.00	
James Briggs, 2 dippers . . . . .	.90	
Dr. Carpenter, repairing wagon	2.50	
Manchester Horse Railway, car- fare	10.90	
Adams & Tasker, 4 lbs. string . . . . .	.48	
	<hr/>	\$109.11
Total expenditures		<hr/> \$39,724.65

Second Street Bridge.

Appropriation	\$6,000.00
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EXPENDITURES.

Balance transferred to new account	\$6,000.00
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Engineer's Department.

Appropriation	\$4,000.00	
Amount transferred from reserved fund	160.61	
	160.61	\$4,160.61

EXPENDITURES.

LABOR.

Paid W. H. Bennett, services as engineer	\$1,200.00	
Harry J. Briggs, 306 days' labor, assisting engineer	612.00	
Edgar E. Farmer, 196 days' labor, assisting engineer	196.00	
John M. Kendall, 4 days' labor, assisting engineer	12.00	
John M. Kendall, 24 days' labor on plans for ward 9 engine-house and ward room	42.00	
George W. Wales, 317 $\frac{4}{6}$ days' labor, assisting engineer	634.80	
Harrie M. Young, 312 days' labor, assisting engineer	702.00	
Carrie H. Bennett, 4 days' labor in engineer's office	4.00	
	4.00	\$3,402.80

TEAM AND TEAM EXPENSES.

Paid Charles Williams, 1 gray horse called Dick	\$190.00	
Paid Kimball Carriage Co. :		
1 wagon	75.00	
1 harness	25.00	
1 stable blanket	2.50	
1 street blanket	6.50	
1 halter	1.50	
1 surcingle . . . . .	.60	
Paid Connor & Grossman, shoeing horse	10.45	
George W. Wales, horse-car fares .	.50	
John T. Beach, carriage work .	2.70	
	<hr/>	\$314.75

TELEPHONE.

Paid New England Telegraph and Telephone Co., use of telephone	\$25.50
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SUPPLIES AND OFFICE EXPENSES.

Paid Harrie M. Young, cash paid sundry small items	\$0.85
George W. Wales, 1 box pearline .	.25
George W. Wales, twine . . . . .	.50
Paid W. H. Bennett :	
Expenses to Boston in reference to Stark park	3.60
Postage stamps	4.00
Drawing point for office	2.25
Expenses to Nashua . . . . .	.72
Expenses to Boston with instruments .	4.60
Blotter bath for copying press . . .	3.50
Repairs on tape . . . . .	.45
Dustpan . . . . .	.25
Express	1.34

Paid Otis Barton, 105 yards cotton cloth at 8½c.	\$8.93
Paid Buff & Berger:	
1 tripod head for transit, without bolts	4.00
1 transit foot plate	3.00
1 packing piece for transit	1.50
2 plumb bobs	5.00
Repairing transit, 6½ hours' labor	3.90
Paid A. V. Benoit, 20 yards plans mounted on cloth	15.00
A. V. Benoit, 1 roll drawing paper	15.00
Paid E. R. Coburn & Co.:	
3 quires Imp. drawing paper	7.00
2 rolls Paragon drawing paper	24.00
2 quires bond T. paper	4.80
2 quires drawing paper	9.00
1 quire Imp. paper	2.35
Index . . . . .	.30
Rubber bands and paper . . . . .	.85
Triangle . . . . .	.75
3 rolls blue print paper	3.75
1 roll tracing cloth	9.45
Paid W. P. Farmer, 1 pair rubber boots	3.25
Head & Dowst Co., brass butts, screws, labor, and lumber	11.90
Paid Jere. Hodge:	
3,000 pine grade stakes	27.00
Labor on drafting boards	1.50
205 feet 2½-inch Michigan pine	14.35
25½ hours' labor	10.20
Shellac, alcohol, and oil . . . . .	.85
2,000 pine grade stakes	18.00
Paid Thomas A. Lane:	
1 crown burner . . . . .	.75
Labor . . . . .	.25
1 Argand chimney . . . . .	.10

1 torch and tapers	\$1.00
Labor 1 hour on safe . . . . .	.40
Paid William E. Moore, 1 nickel-plated numbering machine	18.00
Novelty Advertising Co., 1 font type with 12 holders	5.00
Paid John B. Varick Co. :	
6 No. 7 brooms	1.88
1 50-foot steel tape	6.00
1 100-foot steel tape	10.25
2 Yale padlocks	1.76
100 yards silk line	1.50
36 Ven. red French crayons	1.05
2 plumb bobs	4.00
1 lb. powdered emery . . . . .	.10
1 nickel-plated cup turn . . . . .	.40
1 hand saw	1.25
5 lbs. nails . . . . .	.15
15 feet level chain	1.20
1 hammer . . . . .	.50
Paid Charles H. Woods, painting rods	3.50
Charles H. Woods, repairing in- strument boxes, etc.	1.50
The John B. Clarke Co., printing 50 cards, Derryfield park	1.80
The John B. Clarke Co., printing 150 reports with covers	28.00
Press Printing & Publishing Co., printing 200 blank contracts	5.25
Paid Temple & Farrington Co. :	
12 maps of Manchester	3.00
1 blank book, No. 3370	8.50
1 blank book, No. 3371	8.50
1 blank book, No. 3447	6.60
Shades and fixtures	13.90
Ink wells, rubber bands, ink, and sta- tionery	9.80

2 index books	\$1.00	
Stationery, etc.	13.15	
Paid T. H. Tuson, printing 100 cards for index case . . . . .	.45	
D. H. Hurd & Co., 1 copy town and city atlas, state of New Hampshire	15.00	
E. E. Taylor, 1 set scales	7.68	
E. E. Taylor, 1 cell straight edge Walter Blenus, repairing tapes	1.75 4.65	
		<u>\$417.56</u>
Total expenditures		\$4,160.61

Health Department.

Appropriation \$2,500.00

EXPENDITURES.

LABOR.

Paid Geo. C. Hoitt, salary as health officer for year ending Feb. 1, 1893	\$200.00
Neil F. Starr, salary as health officer for year ending Feb. 1, 1893	200.00
Jos. B. Sawyer, salary as health officer for year ending Feb. 1, 1893	200.00
Harry E. French, 12 days' labor as inspector	18.00
M. J. Jenkins, 10 days' labor as inspector	22.50
Russell White, 49½ days' labor as inspector	99.00
H. S. Clough, 257 days' labor as inspector	771.00

Paid John F. Looney, 256 days' labor as inspector	\$512.00	
Sarah G. Sawyer, making out monthly bulletin and table of mortality for 1891	25.00	
	<hr/>	\$2,047.50

PRINTING AND STATIONERY.

Paid John B. Clarke Co., printing 150 reports, 16 pages and cover	\$9.00	
John B. Clarke Co., 100 $\frac{1}{4}$ -sheet posters, notice	2.25	
John B. Clarke Co., 500 $\frac{1}{2}$ letter notices	3.00	
Paid Press Printing and Publishing Co. :		
1,500 notices	4.50	
500 notices	2.50	
1,000 regulations for restriction of pestilential diseases	4.25	
Publishing regulations, 5 $\frac{1}{2}$ inches, 3 times	10.45	
Paid A. S. Campbell & Co., printing :		
500 blanks, 100 placards, 500 postals	11.35	
500 note heads	1.95	
500 2-cent stamped envelopes	11.75	
2,000 copies, 9 page circular (cholera)	7.50	
500 notices and duplicates to swine owners	4.25	
1,000 note heads in 8 tablets	3.50	
1,000 2-cent stamped envelopes and envelopes	23.50	
Paid Temple & Farrington Co., record book, inkstand, penholder, ink, pens, and paper	3.60	
Temple & Farrington Co., 1 blank book	5.50	

Paid "N. H. Post," printing 1,000 cholera pamphlets (German) . . .	\$10.50	
Joseph B. Sawyer, ledger paper and postage stamps	1.40	
H. S. Clough, 30 Spencerian pens	.25	
Nate M. Kellogg, printing and binding 1,000 vault notices . . .	3.50	
Le Progres Co., printing 2,000 cholera pamphlets (French) . . .	14.00	
	<hr/>	\$138.50

TEAMS.

Paid F. X. Chenette, use of team . . .	\$1.75	
J. G. Ellinwood, use of team . . .	1.75	
W. J. Freeman, use of hacks and teams	19.50	
W. B. Corey & Co., trucking from pest house	1.00	
John Looney, horse-car fares . . .	11.80	
H. S. Clough, horse-car fares . . .	25.32	
Russell White, horse-car fares . . .	8.35	
M. J. Jenkins, horse-car fares . . .	.40	
Harry E. French, horse-car fares . . .	1.75	
Paid H. S. Clough :		
Railroad fare to Lawrence and return	1.30	
Railroad fare to Massabesic and return	.20	
Job team to remove swill . . . . .	.55	
Team . . . . .	.50	
Fare to Concord and return . . . . .	.72	
Paid John Looney, fare to Massabesic and return . . . . .	.20	
John Looney, horse-car fares . . .	2.55	
John Looney, book and oil . . . . .	.10	
	<hr/>	\$77.74

SUNDRIES.

Paid H. S. Clough :	
Cash paid for basket	\$0.60
Tacks and envelopes . . . . .	.18
Postage stamps, disinfectants, etc.	5.54
Postage stamps	2.50
Recovering keys . . . . .	.25
Fixing knob on door . . . . .	.20
Paid John Looney, tacks and chloride of lime	
Joseph B. Sawyer, 2 tack hammers and screw driver . . . . .	.40
E. J. Doherty, labor	1.00
D. J. Adams, 1 mail box, 2 drawer locks, and labor on the same	4.15
Frank P. Colby, posting 100 quarter sheets	1.00
Frank P. Colby, distributing 5,000 cholera pamphlets	6.25
Higgins Bros., 1 oak desk	40.00
John B. Varick Co., lantern, sperm oil, tape measure	1.05
Burnham, Brown & Warren, services, counsel, and advice in sundry cases	41.50
Manchester Hardware Co., lantern . . . . .	.50
George W. Prescott, legal services and expenses in State <i>v.</i> Lawrence Dowd	26.05
John T. Gott, burying dead animals	3.00
Judith Sherer, boarding 4 men 13 days at 50 cents each, German immigrants exposed to small-pox	26.00
	<hr/>
	\$160.27
Total expenditures	\$2,424.01
Amount transferred to reserved fund	75.99
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	\$2,500.00

Repairs of Schoolhouses.

Appropriation	\$5,000.00
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EXPENDITURES.

MASON WORK.

Paid B. W. Robinson, repairing plastering at Bakersville schoolhouse	\$2.50	
B. W. Robinson, whitewashing, kalsomining, etc., sundry schoolhouses	109.05	
Paid W. M. Darrah & Co.:		
Slater and tender 3½ hours	1.75	
26 slates	1.04	
3 lbs. sheet zinc (Spring street) . . . . .	.21	
Labor	8.23	
Paid Chas. E. Lord, mason work, whitewashing, etc., sundry schoolhouses	127.82	
	<hr/>	\$250.60

PAINTING AND GLAZING.

Paid H. G. Batchelder, setting glass in Varney and South-Main-street schoolhouses	\$2.00
J. S. Avery, setting glass at High and Ash-street schoolhouses	3.60
Paid John A. Sargent:	
18 lights glass and setting same at Spring-street schoolhouse	4.55
4 lights glass and setting same at Lowell-street schoolhouse	1.00
15 yards blackboard slating at Ash-street schoolhouse	3.75
Painting	7.66

Paid Sargent & Corson, paint, painting and glazing at High school, Lincoln-street, North-Main-street, Ash-street, and other schoolhouses	\$163.45	
Paid Henry McElwin, repairing blackboards as follows :		
1,850 sq. ft. paper at 8c. at Lincoln-street schoolhouse	148.00	
838 sq. ft. repairs at 5c., Lincoln-street schoolhouse	41.90	
1,318 sq. ft. repairs at 5c., North-Main-street schoolhouse	65.90	
991 sq. ft. repairs at 5c., Spring-street schoolhouse	49.55	
848 sq. ft. repairs at 5c., Bakersville schoolhouse	42.40	
Paid J. A. Swasey, 420 sq. ft. paper blackboard, 8c.	\$33.60	
J. A. Swasey, 35 sq. ft. slating old blackboards	1.75	
	<u>\$35.35</u>	
Discount	4.00	
	<u>31.35</u>	
Paid J. A. Swasey, 141 sq. ft. blackboard surface	14.10	
J. J. Abbott, stock and labor at sundry schoolhouses	208.25	
John Bryson, painting and grain-ing strips . . . . .	.75	
George S. Perry & Co., 147 feet 8½-inch blackboard	35.44	
	<u>823.65</u>	
CLEANING VAULTS.		
Paid Timothy McKenna, cleaning vaults at 9 school-houses	\$24.75	

CONCRETING.

Paid estate C. H. Robie, 33,992 yards at 45c., Webster-street schoolhouse	\$152.96	
estate C. H. Robie, 7,648 yards at 25c., Webster-street schoolhouse	19.12	
estate C. H. Robie, grading, Web- ster-street schoolhouse	<u>135.75</u>	\$307.83

WOODWORK.

Paid Geo. H. Dudley, labor, lumber, and hardware	\$890.76	
J. Hodge, 504 feet 1½-inch pic- ture molding	5.67	
Paid Head & Dowst :		
Lumber and labor on Stark district schoolhouse	34.65	
Lumber and labor on old High school house	103.78	
9 flagpoles	72.00	
Repairs on Goffe's Falls schoolhouse .	158.00	
Paid S. C. Forsaith Machine Co.:		
819 feet pine boards, planed and sawed	15.56	
202 feet fence capping	5.05	
297 slats	8.91	
North River road schoolhouse		
Paid Amoskeag Manufacturing Co., la- bor finishing and setting 11 flag- poles	115.65	
Amoskeag Manufacturing Co., la- bor on desk legs, braces, etc.	<u>28.35</u>	\$1,438.38

PLUMBING AND IRONWORK.

Paid H. G. Batchelder, repairing heater in Varney schoolhouse	\$2.00
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Paid Amoskeag Manufacturing Co., 6 days' labor covering steam pipe at Ash-street schoolhouse . . .	\$12.00
Amoskeag Manufacturing Co., 2 brass plugs and labor . . .	3.60
Amoskeag Manufacturing Co., 1 valve wrench	1.10
Thomas A. Lane, materials and labor in plumbing, piping, etc., in schoolhouses	398.42
Manchester Heating & Lighting Co., 4 gongs at Hallsville school	36.00
Manchester Heating & Lighting Co., electric work on schoolhouse as per contract	254.00
Mahurin Lightning-Rod Co., repairing rod on Webster-street schoolhouse	3.50
Mahurin Lightning-Rod Co., repairing rod on Bakersville schoolhouse	13.50
Pike & Heald, steam heating Spring-street schoolhouse, as per contract	867.00
Pike & Heald, plumbing, materials, pipe, and labor at Bakersville, Blodget street, etc.	74.42
Pike & Heald, tin, solder, roofing cement, and labor	116.51
John B. Varick Co., bolts, screws, brass locks, etc.	18.10
Wadleigh Hardware Co., 1 step-ladder	1.25
Amoskeag Manufacturing Co., 6 galvanized ash cans	14.40
Amoskeag Manufacturing Co., 442 hours' labor grading, Webster-street schoolhouse	91.27
Amoskeag Manufacturing Co., 1 valve wrench	1.10
	<hr/>
	\$1,908.17

SUNDRIES.

Paid John B. Varick, 100 lbs. phosphate	\$1.75	
John B. Varick Co., 1 coil $\frac{5}{16}$ manilla rope	5.70	
Weston & Hill Co., 10 flags	45.00	
J. C. Blair, locks, screws, etc.	1.31	
Edward Sears, putting flag rope through sheave of flag pole, Varney school	1.00	
Pay-roll, district No. 10, grading for concrete at Varney school	110.50	
Albert Somes, expense to Boston and return, to buy dynamo	2.12	
Alphonso Boyce, labor of men and teams, grading schoolhouse yard in district No. 9	31.50	
		<u>\$198.88</u>
Total expenditures		\$4,952.26
Amount transferred to reserved fund		47.74
		<u>\$5,000.00</u>

Fuel.

Appropriation	\$4,500.00
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EXPENDITURES.

COAL.

Paid L. B. Bodwell & Co., 151,908 lbs. egg coal, at \$6.25	\$474.71
L. B. Bodwell & Co., 966,090 lbs. egg coal, at \$5.95	2,874.11
DeCourcy, Holland & Marshall, 20,300 lbs. egg coal, at \$6.25	63.44

FUEL.

543

Paid Moore & Preston, 42,000 lbs. Le-high egg coal, at \$6.25 . . .	\$131.25	
A. & D. M. Poore, 72,355 lbs. Le-high egg coal, at \$6.25 . . .	226.12	
	<hr/>	\$3,769.63

WOOD.

Paid L. B. Bodwell & Co., 2 cords slabs	\$11.00	
Moore & Preston, 4 cords of pine wood, sawed, at \$5.25 . . .	21.00	
Moore & Preston, 2 cords beech and maple, sawed	15.00	
Moore & Preston, 2 cords pine wood, at \$4.75	9.50	
Paid A. & D. M. Poore :		
2 cords hard wood, sawed	16.00	
1 cord hard wood	8.00	
1 cord, $\frac{3}{4}$ hard wood and $\frac{1}{4}$ pine . . .	7.50	
1 cord, $\frac{1}{2}$ hard wood and $\frac{1}{2}$ pine . . .	7.00	
5 barrels charcoal	2.00	
1 $\frac{1}{2}$ cords wood, sawed and split . . .	11.25	
Paid J. Hodge, kindlings	2.00	
William H. Newry, cutting wood at Hallsville school	4.25	
J. P. Russell & Co., 52 $\frac{1}{2}$ cords of wood, at \$5.75	301.87	
J. P. Russell & Co., surveying . . . .	.90	
J. P. Russell & Co., moving and sawing wood	2.00	
Dennis Murphy, 2 days' labor sawing wood at Webster-street school-house	3.00	
Luther S. Proctor, 22 cords pine, sawed and delivered at 22 school-houses	88.00	
	<hr/>	\$510.27

SUNDRIES.

Paid John B. Varick Co. :

2 wheelbarrows	\$6.00	
1 No. 8 scoop	1.25	
50 feet hose	5.00	
1 ash barrel	3.25	
Small shovel, hose nozzle, 2 thermometers, 1 coal hod	2.00	
		<u>\$17.50</u>
Total expenditures		\$4,297.40
Amount transferred to reserved fund		202.60
		<u>\$4,500.00</u>

Furniture and Supplies.

Appropriation \$800.00

EXPENDITURES.

HARDWARE.

Paid Manchester Hardware Co., 2 $\frac{3}{8}$ lbs. twine	\$0.48
Killey & Wadleigh, floor brushes, snow shovel	7.40
John B. Varick Co., 2 No. 20 feather dusters	4.00
John B. Varick Co., 2 No. 14 floor brushes	4.50
Paid John B. Varick Co. :	
12 No. 3 counter dusters	2.50
12 No. 7 brooms	3.00
5 18 x 30 wire mats	8.75
2 wire mats	5.25
2 galvanized coal hods	1.30
3 waste baskets	3.75

FURNITURE AND SUPPLIES.

545

Bolts, pail, and other hardware for	
Hallsville school	\$1.56
4 waste baskets	4.48
16 18 x 30 wire mats	24.00
2 No. 14 floor brushes	4.50
1 No. 18 ostrich duster	1.75
12 No. 12 turkey dusters	4.50
12 ash barrels	39.00
Other supplies	41.73
48 doz. Jap. pocket scissors	24.00
Paid Wadleigh Hardware Co.:	
2 floor brushes	3.50
1 feather duster	2.00
1 floor brush	1.75
Other hardware	3.85
	<hr/>
	\$197.55

BOOKS AND STATIONERY.

Paid Boston School Supply Co., 6 cop- per ink fillers	\$7.50
Boston School Supply Co., 1 chart	7.15
Ginn & Co., music chart and easel	8.58
Ginn & Co., 2 easels and 155 coda	5.29
Paid J. L. Hammett:	
1 4 x 5 blackboard and stand	12.00
21 Stanford's maps	78.75
2 Rand & McNally and N. E.	4.50
7 Stanford's maps	26.25
1 case crayons	6.75
1 set model relief maps	2.40
Paid Silver, Burdett & Co., maps and charts	20.80
Temple & Farrington Co., 105 tags	.20
Temple & Farrington Co., curtains, fixtures, and hanging	16.53
Temple & Farrington Co., 6 sheets cardboard . . . . .	.46
	<hr/>
	\$197.16

FURNITURE.

Paid Charles A. Hoitt & Co., 14 chairs for sundry schools	\$15.50	
Charles A. Hoitt & Co., 4 high cane-seated chairs	7.00	
Paid C. A. Trefethen :		
2 clocks, Bakersville	7.50	
2 clocks	8.00	
Repairing clocks, Webster-street and Amoskeag	2.00	
Repairing clocks, and 2 clocks	8.50	
Paid Jos. Lewis, repairing 1 office chair	.60	
George S. Perry & Co., 17 doz. ink-wells	34.55	
Head & Dowst Co., lumber and la- bor on footrests for various schools	10.00	
R. D. Gay, shades and fixtures for schools	18.05	
J. J. Abbott, repairing 1 desk	2.00	
J. J. Abbott, finishing 1 desk	1.50	
L. P. LaBonte, draperies and cur- tains for Bakersville school	1.00	
Vermont School Seat Co., 3 teachers' desks \$37.50		
Less freight and repairs 3.35		
	<u>34.15</u>	
Winchester Furniture Co., 1 No. 20 teacher's desk	17.00	
D. M. Poore & Son, 3 gallons kero- sene oil . . . . .	.45	
R. McQuarry, 1 granite wash basin	.40	
	<u> </u>	\$168.20
SUNDRIES.		
Paid Barton & Co., drapery and sash rods	\$6.37	
J. Henry Ling, 12 pitch pipes	1.56	

Paid W. O. Davidson, $8\frac{3}{4}$ hours' trucking and storing old furniture from Bridge-street schoolhouse .	\$4.37	
Alfred Mudge & Son, 1 Elect. music	3.25	
H. J. Holmes, 1 3-gallon oil can .	1.20	
H. J. Holmes, 3 gallons oil . . .	.39	
J. Stickney, 2 pecks shoe pegs . .	.50	
The Holtzer-Cabot Electric Co., 1 $\frac{1}{6}$ H. P. 12 volt motor with pulley, No. 225 D., speed 3,000 .	32.00	
W. A. Choate & Co., Johnston map of So. America on rollers .	3.00	
Public school celebration, 200 official programs, Columbus Day .	2.00	
Allen N. Clapp, 4 papers gold dust	1.00	
A. M. Eastman, 4 gallons oil . . .	.60	
A. M. Eastman, 4 packages ivorine	.48	
Novelty Advertising Co., card-board, etc.	3.38	
Manchester Heating and Lighting Co., 12 hose menders . . . .	.55	
Manchester Heating and Lighting Co., telegraph machine, etc., for high school	7.96	
Manchester Heating and Lighting Co., 4 battery cells	2.40	
Tebbetts & Soule, $4\frac{1}{6}$ doz. corks .	.65	
	<hr/>	\$71.66
Total expenditures		\$634.57
Amount transferred to reserved fund		165.43
		<hr/>
		\$800.00

Books and Stationery.

Appropriation \$300.00

EXPENDITURES.

SUNDRIES.

Paid American Book Co., 3 Webster's dictionaries	\$25.75	
B. A. Fowler & Co., 7 sets International Cyclopedia, exchanged for others for High, Lincoln, Franklin, Ash, Webster, Training, and Varney schools	200.00	
W. P. Goodman, record book, envelopes, note paper, inkstand, and stationery	27.19	
Paid Hammond Typewriter Co. :		
1 ream No. 11 letter paper	1.20	
3 dozen carbon	1.12	
3 dozen blue carbon	1.50	
Paid G. F. King & Merrill, 5 gross pens	23.25	
Temple & Farrington Co., 2 gross rubber bands . . . . .	.34	
Smith & White, stationery	6.72	
A. S. Barnes & Co., Popular History	2.68	
George F. Cram, atlas	3.75	
Ginn & Co., Our World	1.40	
Houghton, Mifflin & Co., History of Our Country	3.48	
Daniels & Downs, 1 ream paper	1.35	
		<u>\$299.73</u>
Total expenditure		\$299.73
Transferred to reserved fund . . . . .		.27
		<u>\$300.00</u>

Printing and Advertising.

Appropriation \$400.00

EXPENDITURES.

SUNDRIES.

Paid John B. Clarke Co.:

Printing 500 reports, 66 pages and
cover \$41.25

Advertising examination of teachers 7.25

Printing blanks, examination papers,
note heads, circulars, coupon sheets,
labels for school books, mill blanks,
and various other blanks in use by
superintendent, truant officer, and
teachers 155.00

Tickets, programs, etc., for graduation 69.25

12,000 programs, Columbus Day 25.00

1,000 blanks 7.00

100 half-note circulars 1.50

1,100 blanks 10.50

Paid Daily Press Publishing Co., adver-
tising teachers' examination 3.00

Union Publishing Co., advertising
examination of teachers, 4 squares,
daily 4 times and weekly 1 time 14.00

————— \$333.75

Total expenditures \$333.75

Amount transferred to reserved fund 66.25

—————
\$400.00

Contingent Expenses.

Appropriation	\$1,200.00	
Transferred from reserved fund	27.99	
	<u> </u>	\$1,227.99

EXPENDITURES.

FREIGHT AND CARTAGE.

Paid J. G. Jones, freight and cartage	\$37.26	
J. B. Lippincott Co., express on encyclopædia, returned	1.45	
G. E. Fellows, carting 3 loads chairs	2.00	
L. Rowe, moving books, furniture, and seats	2.00	
Hartley E. Vaughan, moving seats, Columbus Day	5.00	
	<u> </u>	\$47.71

WATER AND GAS.

Paid People's Gas-Light Co., gas	\$186.90	
Water-Works, water for July, Au- gust and September	103.95	
	<u> </u>	\$290.85

ANNUAL GRADUATION.

Paid R. W. Bean, services at Opera House	\$2.25	
W. Heron, Jr., 170 diplomas	29.55	
Manchester Opera House Co., use of Opera House, June 22, 1892	40.00	
Arthur Stockin, 300 diplomas, parchment	68.50	
Arthur Stockin, lithograph stone with engraving	10.00	

CONTINGENT EXPENSES.

551

Paid Weston & Hill Co., 18 rolls ribbon	\$20.79	
Clark & Estey, ribbon	2.80	
F. P. Colby, moving piano to and from Opera House	6.00	
Higgins Bros., use of 245 chairs at Opera House	14.70	
	<hr/>	\$194.59

OFFICE OF SUPERINTENDENT AND SCHOOL COMMITTEE.

Paid Manchester post-office, postage stamps	\$20.00	
E. I. Woodbury, postage	2.50	
H. C. Dimond & Co., 2 Midget stamps	2.00	
W. P. Goodman, rubber bands, inkstand, envelopes	2.27	
M. P. Hall, expense visiting schools in Boston, Cambridge, Waltham, Mass., and Concord, N. H. . .	3.92	
C. H. Manning, expense visiting schools as above	3.20	
L. C. Baldwin, expense visiting schools, as above	3.20	
J. B. McCrillis & Son, 1 typewriter ribbon	1.00	
J. B. Sanborn, 3 copies school laws	2.25	
William Buck, for carriage hire, visiting schools, to Dec. 31, 1892	94.50	
S. S. Piper, postmaster, postage .	10.00	
	<hr/>	\$144.84

CHEMICAL APPARATUS FOR HIGH SCHOOL.

Paid Tebbetts & Soule, chemical supplies	\$34.94
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SUNDRIES.

Paid J. S. Avery, glass and setting same at Ash-street schoolhouse	\$2.00
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Paid D. J. Adams, repairing pencil sharpener, fitting keys, etc.	\$3.65
The American Book Co., Gray's microscope, 2 lenses	14.55
Boston School Supply Co., 1 Monroe's Primary Reading Chart	7.75
John B. Clarke Co., binding 1 volume school register . . . . .	.50
Joel Daniels & Co., setting 4 lights glass, Webster-street school	1.40
Joel Daniels & Co., paint and labor, Spring-street school	2.84
W. P. Goodman, inkstands, mucilage, rubber bands, blotting paper, and stationery	12.14
Charles A. Hoitt & Co., 3 chairs	11.00
Charles A. Hoitt & Co., reseating 2 chairs . . . . .	.50
Novelty Advertising Co., 1,512 sheets cardboard, and cutting	15.69
Novelty Advertising Co., 250 colored envelopes	1.25
New England Publishing Co., subscription for "Journal of Education" three years ending January, 1893, and subscription for "American Teacher" three years ending January, 1893	9.00
Educational Publishing Co., two years subscription to "Popular Educator," from November, 1891, to November, 1893	2.00
John H. Proctor, cleaning vault 2 times	5.00
L. C. Paige, 4 lights glass and setting . . . . .	.90

Paid Pike & Heald, grates, mops, dust-pans, etc.	\$20.84
George S. Perry, 10 gallons black ink	6.40
L. & W. T. Seiberlich, glass and putty . . . . .	.48
Albert Somes, expenses to Boston and return	3.50
Weston & Hill Co., 8 mats for Spring-street school	5.36
Weston & Hill Co., zincing 4 ends, Spring-street school	2.25
Wyckoff, Seamans & Benedict, 2 Paragon ribbons	2.00
Killey & Wadleigh, 4 floor brushes	7.00
Manchester Hardware Co., hardware	6.27
Wadleigh Hardware Co., 3 floor brushes	5.25
Wadleigh Hardware Co., 1 feather duster	2.25
John B. Varick Co., brushes, staples, butts, wire nails, locks, mops, etc.	35.14
Frank P. Colby, moving piano, Hallsville school	2.00
Wm. H. Elliott & Son, pitch pipes	2.50
Silver, Burdett & Co., 210 music	8.82
Ginn & Co., 1,855 music books	32.91
A. A. Jenkins, tuning pianos	16.00
C. A. Trefethen, repairing clocks	10.00
Allen N. Clapp, 2 gals. oil, oil can	.73
R. McQuarry, 12 wash basins	1.00
Henry Gorman, 6 gals. oil, Webster-street school . . . . .	.90
Oliver Ditson Co., music	13.02
Ginn & Co., music	17.01

Faid Water-works, use of water from		
January to July	\$210.60	
Barton & Co., 36 yards cambric for drawing exhibit, Ash-street school	2.16	
Edward J. Boyle, six days' service as special police officer, securing truants	10.50	
	<u> </u>	\$515.06
Total expenditures		<u>\$1,227.99</u>

Care of Rooms.

Appropriation	\$4,000.00	
Amount transferred from reserved fund .	50.77	
	<u> </u>	\$4,050.77

EXPENDITURES.

LABOR.

Paid John S. Avery, janitor High and Ash-street schoolhouses	\$600.00
Edward P. Cogswell, janitor Frank- lin and Training school houses	475.00
Wm. Stevens, janitor Lincoln-street and Wilson hill schoolhouses	450.00
H. G. Batchelder, janitor Varney and Piscataquog schoolhouses	450.00
Michael Finley, Webster-street and Blodget-street schoolhouses	341.64
Wm. H. Morrill, janitor Spring- street and Lowell-street school- houses	350.04
Joseph C. Blaine, janitor North- Main-street schoolhouse	350.04

Paid Henry C. Dickey, janitor Bakersville schoolhouse	\$300.00
Wm. H. Newry, janitor Hallsville schoolhouse	274.98
James E. Bailey, janitor Amoskeag schoolhouse	170.04
D. S. Dunbar, janitor Mosquito Pond schoolhouse	19.50
Andrew J. Dobbin, janitor Goffe's Falls schoolhouse	33.50
Frank French, janitor Harvey District schoolhouse	12.00
Etta B. Proctor, janitor Youngsville schoolhouse	29.75
Inez M. Warren, janitor Stark District schoolhouse	41.25
M. G. Worthen, janitor Webster's Mills schoolhouse	40.00
M. G. Worthen, piling wood and cleaning house	2.75
C. M. Whiting, care of Webster-street and Blodget-street schoolhouses, as substitute for janitor .	70.83
Margaret Flynn, cleaning Goffe's Falls schoolhouse	5.00
Samuel N. Boyce, janitor Harvey District schoolhouse	11.00
Emma J. Ela, services as janitor .	21.00
Emma J. Ela, putting wood in shed	1.75
Emma J. Ela, setting glass, etc. .	.70
	<hr/>
	\$4,050.77
Total expenditures	<hr/>
	\$4,050.77

Evening Schools.

Appropriation	\$1,200.00
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EXPENDITURES.

SALARIES.

Paid Alice H. Boyd, 37 evenings	\$35.00	
Mabel J. Brickett, 7 evenings	6.30	
Gertrude A. Burns, 35 evenings	31.50	
L. H. Carpenter, 71 evenings	154.00	
Mary A. Clement, 54 evenings	50.60	
Chas. E. Cochran, 70 evenings	154.00	
Lizzie D. Hartford, 38 evenings	38.00	
David P. Ekvall, 44 evenings	39.60	
Maggie G. Linen, 35 evenings	66.50	
Arthur W. Morgan, 64 evenings	64.00	
William J. Mooar, 36 evenings	33.50	
John J. Shea, 10 evenings	9.00	
H. J. Crough, 35 evenings	31.50	
Attie S. Marshall, 30 evenings	30.00	
Fannie L. Sanborn, 22 evenings	19.80	
Louis H. Bailey, 35 evenings	77.00	
Annie Brigham, 24 evenings	21.60	
		<u>\$861.90</u>

SUPPLIES.

Paid Edward E. Babb & Co., 72 Franklin and Progressive readers	\$25.63
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JANITORS.

Paid J. C. Blaine, services as janitor	\$26.00	
Wm. H. Morrill, services as janitor	60.40	
		<u>\$86.40</u>
Total expenditures	\$973.93	
Amount transferred to reserved fund	226.07	
		<u>\$1,200.00</u>

Teachers' Salaries.

Appropriation \$56,000.00

EXPENDITURES.

Paid teachers, as per pay-rolls :

January	\$4,869.99
February	5,666.24
March	5,344.24
April	5,188.05
May	5,379.38
June	5,344.34
September	5,687.91
October	5,847.99
November	5,675.95
December	<u>5,656.27</u>

Total expenditures	\$54,660.36
Amount transferred to reserved fund	<u>1,339.64</u>
	\$56,000.00

Evening School Mechanical Drawing.

Appropriation \$600.00

EXPENDITURES.

SALARIES.

Paid Henry W. Allen, for services	\$159.75
John M. Kendall, for services	120.00
A. H. Sanborn, for services	<u>77.00</u>
	\$356.75

SUPPLIES.

Paid Temple & Farrington Co., 800 sheets ruled in checks	\$5.75
John B. Varick Co., 18 doz. thumb tacks	2.25

Paid S. C. Forsaith Machine Co., 1 connecting rod, 1 valve, 1 eccentric strap	\$12.00	<u>\$20.00</u>
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JANITOR.

Paid William H. Morrill, for services as janitor	\$28.40	<u>\$405.15</u>
Total expenditures		194.85
Amount transferred to reserved fund		<u>\$600.00</u>

Free Text-Books.

Appropriation	\$3,500.00
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EXPENDITURES.

FREE TEXT-BOOKS AND SUPPLIES.

Paid American Book Co.	\$686.45
W. P. Adams	21.67
F. M. Ambrose	6.00
Boston School Supply Co.	12.75
D. C. Colesworthy	27.50
Effingham, Maynard & Co.	41.14
Frost & Adams	11.56
Joseph Gillott & Sons	43.28
W. P. Goodman	3.36
Ginn & Co.	414.16
William H. Huse	6.12
D. C. Heath & Co.	46.44
J. L. Hammett	117.05
Houghton, Mifflin & Co.	7.78
King & Merrill	174.98
Lee & Shepard	125.39

Paid Mills & Thompson	\$3.36	
Novelty Advertising Co.	2.75	
George S. Perry & Co.	306.09	
Prang Educational Co.	229.96	
Willard Small	10.65	
Silver, Burdett & Co.	105.24	
Smith & White	30.91	
Thorpe & Adams Manufacturing Co.	51.00	
Thompson, Brown & Co.	18.97	
Temple & Farrington Co.	1.80	
University Publishing Co.	130.06	
William Ware & Co.	325.71	
E. R. Coburn & Co.	37.64	
Eagle Pencil Co.	14.25	
Mead, Dodge & Co.	7.80	
Carl Schoenhof	59.59	
P. P. Caproni & Brother	7.65	
Greenough, Adams & Cushing	13.75	
McMillan & Co.	7.00	
Holden Patent Book Cover Co.	125.00	
	<u> </u>	\$3,234.81

LABOR.

Paid Fannie L. Sanborn, services as clerk	\$254.50	
Total expenditures	\$3,489.31	
Amount transferred to reserved fund	10.69	
	<u> </u>	\$3,500.00

City Library.

Balance from last year unexpended	\$5,162.44	
Appropriation	3,800.00	
	<u> </u>	\$8,962.44

EXPENDITURES.

LIBRARIAN AND ASSISTANT.

Paid Mrs. M. J. Buncher, librarian	\$800.00	
A. F. Payne, assistant librarian	382.50	
	<u> </u>	\$1,182.50

CATALOGUE.

Paid Charles A. Durfee	\$777.50	
Emma A. H. Piper, assistant in cataloguing	447.05	
Paid Library Bureau :		
2 card catalogue cases and fittings	100.00	
21,000 catalogue cards	56.70	
2 card catalogue cases	85.00	
10,000 catalogue cards	27.00	
Paid Head & Dowst Co., lumber and labor for card catalogue . . . . .	.85	
	<u> </u>	\$1,494.10

BINDING, REBINDING, AND RESEWING.

Paid Temple & Farrington Co.	\$494.31
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NEW BOOKS.

Paid trustees of city library	\$1,000.00
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WATER, GAS, FUEL, AND INSURANCE.

Paid Water-works, use of water for 1892	\$16.00
People's Gas-light Co., for gas	227.50
L. B. Bodwell & Co., 1½ cords of pine slabs	6.75
L. B. Bodwell & Co., 80,530 lbs. egg coal, at \$5.95	239.58
L. B. Bodwell & Co., 15 lbs. ice daily from June 13 to Sept. 13	3.75

CITY LIBRARY.

561

Paid Moore & Preston, 1/2 cord slabs	\$2.25	
L. B. Clough, agent, premium on \$10,000 insurance on contents of library, Aetna and N. H. Insur- ance Cos.	125.00	
	<u>125.00</u>	\$620.83

NEWSPAPERS.

Paid John B. Clarke Co., for "Daily Mirror and American" to April 1, 1892		\$6.00
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SUNDRIES.

Paid John B. Clarke Co., printing 200 reports	\$11.00	
John B. Clarke Co., ruling paper and paper60	
Paid Temple & Farrington Co.:		
1 ream packet note	3.50	
45,500 slips	9.00	
Repairing and regilding portrait frames	23.80	
Cord and hanging same	1.00	
24,000 slips	4.80	
1 blank book	4.50	
Paid Thos. A. Lane Co., repairing gas leaks	3.00	
Library Bureau, 1 dating stamp	5.00	
N. P. Hunt, cash paid for postage, etc., for 1891	2.40	
N. P. Hunt, cash paid for postage, etc., for 1892	2.10	
	<u>70.70</u>	
Total expenditures		\$4,868.44
Balance transferred to new account		4,094.00
		<u>\$8,962.44</u>

Fire Department.

Appropriation	\$39,000.00	
Transferred from reserved fund	3,262.88	
	<u> </u>	\$42,262.88

EXPENDITURES.

SERVICES.

Paid Thos. W. Lane, chief engineer	\$1,300.00	
Fred S. Bean, assistant engineer	125.00	
Ruel G. Manning, assistant engineer	125.00	
Eugene S. Whitney, assistant engineer	125.00	
Clarence R. Merrill, assistant engineer	125.00	
Fred S. Bean, clerk	25.00	
	<u> </u>	\$1,825.00

Paid teamsters and engineers, as per pay-rolls :

January	\$1,015.50	
February	1,020.00	
March	1,018.00	
April	1,013.00	
May	969.50	
June	944.00	
July	1,020.00	
August	1,023.00	
September	1,174.00	
October	1,181.50	
November	1,183.00	
December	1,181.50	
	<u> </u>	\$12,743.00

CALL MEMBERS.

Paid Amoskeag Steam Fire Engine Co., for the year 1892	\$1,485.00
Amoskeag Steam Fire Engine Co., extra labor July 3 and 4	8.00

Paid Fire King Steam Fire Engine Co., for the year 1892	\$1,485.00
Fire King Steam Fire Engine Co., extra labor July 3 and 4	8.00
N. S. Bean Steam Fire Engine Co., for the year 1892	1,485.00
N. S. Bean Steam Fire Engine Co., extra labor July 3 and 4	8.00
Merrimack Steam Fire Engine Co., for the year 1892	1,485.00
Merrimack Steam Fire Engine Co., extra labor July 3 and 4	8.00
General Stark Steam Fire Engine Co., for the year 1892	1,485.00
General Stark Steam Fire Engine Co., extra labor July 3 and 4	8.00
Chemical Engine Co., for the year 1892	535.00
Massabesic Hose Co., for the year 1892	1,245.00
Massabesic Hose Co., extra labor July 3 and 4	8.00
Pennacook Hose Co., for the year 1892	1,245.00
Pennacook Hose Co., extra labor July 3 and 4	8.00
Excelsior Hook & Ladder Co., for the year 1892	2,045.00
Excelsior Hook & Ladder Co., ex- tra labor July 3 and 4	8.00
	<hr/> \$12,559.00

OTHER LABOR.

Paid Manley S. Adams, 130 days' la- bor as teamster	\$195.00
George Ames, 12 days' labor, driv- ing steamer	18.00

Paid John Burke, driving supply wagon, 5 alarms	\$5.00
J. Newell Brown, 10 $\frac{1}{2}$ weeks' ser- vices as engineer Steamer No. 2	131.25
J. Newell Brown, 14 days' services as engineer Steamer No. 3	24.50
Stephen Thomes, 13 days' services as engineer Steamer No. 2	22.75
Thomas Brown, 14 days driver of Steamer No. 5	21.00
Ralph C. Mitchell, 28 days driver of Steamer No. 3	42.00
Chas. Willey, care of horse, 4 nights	6.00
Chas. Willey, driving horse, 2 days	3.00
Thomas F. Dodge, engineer Steam- er No. 2, 5 days	11.80
George W. Bacon, services as fire- man for the year 1890	31.45
Charles S. Cousins, services as fire- man for the year 1890	111.10
Charles S. Cousins, costs	23.41
Roscoe Dyer, services as fireman for the year 1890	122.21
Clarence R. Merrill, services as fireman for the year 1890	28.00
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	\$796.47

LAUNDRY.

Paid Mrs. George B. Forsaith, laundry work, etc.	\$19.25
{ Mrs. M. H. Hulme, laundry work, etc.	43.65
Mrs. C. C. Tinkham, laundry work, etc.	26.02
Mrs. W. F. Wheeler, laundry work, etc.	38.45

FIRE DEPARTMENT.

565

Mrs. George M. Goodwin, laundry work, etc.	\$10.65
Mrs. F. J. Dustin, laundry work. etc.	5.40
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\$143.42

FURNITURE, ETC.

Paid Weston & Hill Co. :	
50 yards crash at 12½c.	\$6.25
8½ yards matting at 67½c.	5.49
Ironing ends	1.75
40 yards matting at 67½c.	27.00
Ironing ends	3.50
12 pillow slips	2.50
28 yds. matting, Hook-and-Ladder Co.	18.70
Ironing ends	2.25
12 pillow slips, Fire King Co.	3.00
12 sheets, Fire King Co.	11.04
26 yds. matting, Pennacook Hose Co.	17.56
Ironing ends, Pennacook Hose Co.	2.50
5⅓ yards matting, Fire King Co.	5.33
Ironing ends, Fire King Co.	1.50
12 sheets, Vine street engine-house	11.04
4 spreads, Vine street engine-house	5.00
2 yds. silesia, Vine street engine-house . . . . .	.30
15⅓ yards matting, Vine street engine-house	10.27
Ironing ends	1.00
Paid D. A. Simons, 10 arm office chairs	17.50
D. A. Simons, 1 2-gallon jar . . . . .	.50
Paid Charles A. Hoitt & Co. :	
2 chamber sets, etc., for Hook-and-Ladder No. 1 and Amoskeag Steamer No. 1	80.88
1 comforter	1.50
1 wardrobe	13.50
1 spring	4.00

Paid Weston & Hill Co., 17 $\frac{1}{4}$ yards matting, Central Fire Station	\$11.56	
Weston & Hill Co., ironing ends	3.60	
Weston & Hill Co., 12 sheets, 12 pillow slips, 6 towels	14.29	
	<hr/>	\$283.31

PRINTING AND STATIONERY.

Paid J. Oscar Burbank, printing 100 cir- culars	\$2.50	
Paid John B. Clarke Co. :		
Printing 500 envelopes	12.25	
Printing 200 blanks, report fees	2.75	
Printing 200 lists	4.50	
Printing 150 envelopes . . . . .	.25	
Printing 400 reports, 58 pages	35.00	
Printing 400 comp. slips	1.25	
Paid Nate Kellogg :		
4 blank order books	4.40	
125 postal cards and printing	2.75	
150 half-note circulars	2.50	
150 half-note circulars	2.25	
125 letter slips	1.00	
Paid C. P. Trickey, 1 blank book	1.50	
C. P. Trickey, 2 sheets blotting pa- per, 3 pass books . . . . .	.35	
C. P. Trickey, envelopes, mucil- age, etc.	5.00	
Temple & Farrington Co., 1 box envelopes . . . . .	.50	
Temple & Farrington Co., 1 box elastic bands . . . . .	.14	
	<hr/>	\$78.89

WATER, GAS, AND TELEPHONE.

Paid Water-Works, use of water to Sep- tember 1, 1892	\$731.35
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FIRE DEPARTMENT.

567

Paid People's Gas-Light Co., for gas . . .	\$903.84	
New England Telegraph & Telephone Co., use of telephones . . .	220.36	
	<u> </u>	\$1,855.55

FUEL.

Paid L. B. Bodwell & Co. :		
48,240 lbs. egg coal, at \$6.25 . . .	\$150.75	
50,000 lbs. cannel coal, at \$16 . . .	400.00	
2 barrels charcoal	1.00	
1 cord pine slabs, sawed	4.50	
Paid J. E. French, 12 feet pine wood . . .	7.50	
Stephen Gardiner, sawing and splitting 2 cords kindling wood . . .	5.00	
Stanislaus Lavie, 4 cords wood, 2 cords sawed and split	20.40	
Dunlap & Wason Coal Co., 347,195 lbs. egg coal, at \$5.95 . . .	1,032.91	
Moore & Preston, 3 cords slabs, sawed	16.00	
	<u> </u>	\$1,638.06

FREIGHT AND TRUCKAGE.

Paid Boston & Maine R. R., freight on 2 barrels soda	\$0.72	
Concord & Montreal R. R., freight . . . . .	.75	
John W. Wilson, truckage	5.09	
	<u> </u>	\$6.56

SUPPLIES.

Paid J. A. & W. Bird, 2 barrels, 896 lbs., soda	\$31.36	
J. A. & W. Bird, truckage . . . . .	.25	
Boston Belting Co., 4 clamps to fit 4½-inch hose	3.20	

Paid Boston Woven Hose & Rubber Co., 50 ft. chemical hose . . .	\$14.80
Clark M. Bailey, 12 barn brooms . . .	5.50
Clark M. Bailey, 10 reams tissue paper	5.00
Paid Cavanaugh Bros. :	
1 gray horse	300.00
1 gray horse	325.00
1 gray horse	350.00
1 bay horse, Pennacook	350.00
1 bay horse, Fire King	280.20
1 gray horse. Amoskeag engine	350.00
Paid Cornelius Callahan Co. :	
1 Boston pipe	15.00
1 extra pipe	1.50
1 Perry Holloway Extinguisher	30.00
2 dozen Regan rim snaps	24.00
Paid P. C. Cheney Co. 1 horse in exchange	250.00
DeVoursney Bros. 1 Neptune lantern No. 5	3.75
Paid A. S. Jackson :	
1 gong	12.00
1 strike bar	5.00
6 hose brushes, long handles	7.50
2 Boston pipes	30.00
Paid Dennis Kerwin. 1 box Welcome soap	4.25
Dennis Kerwin, 2 boxes Soapine	8.00
Cavanaugh Bros., use of horse	36.00
Plumer & Holton. 25 pairs heavy overalls	37.50
Plumer & Holton. 15 reefers for Hook-and-Ladder Co.	131.25
Plumer & Holton. 16 reefers. at \$8.75	140.00

Paid L. & W. T. Seiberlich, small can linseed oil	50.18
Stark Mills, 14 yards No. 12 duck .	1.99
J. H. Wiggin & Co., 1 dozen am- monia	3.00
J. H. Wiggin, 4 lbs. sugar . . . .	.28
J. H. Wiggin, 3 gross matches, etc.	1.93
D. Milton Goodwin, 12 heavy brooms	4.75
Daniels Cornell Co., soap and soap- ine	8.15
Talbot Dyewood & Chemical Co., 1 barrel Bicarb. soda, 400 lbs., at 3¼c.	13.00
Clark M. Bailey, 440 lbs. waste .	44.00
Ford Rubber Co., 4 5½ x 1¾ rub- ber wheel hub rings	2.40
S. F. Haywood & Co., 1 gross pony bottles and corks	9.00
Pike & Heald, lantern globes, tin dippers, tin pails, chimneys, etc.	3.65
Samuel Eastman & Co., 12 hook and ladder straps	12.00
Ellis Lubricator Co., 5 1-pint cyl- inder lubricators	25.00
Daniels Cornell Co., 1 box soapine	3.60
	<hr style="width: 10%; margin-left: 0;"/>
	\$2.883.99

PLUMBING AND REPAIRS.

Paid L. M. Aldrich, lumber, screws, and labor	\$3.42
Flint & Little, repairing hooks, lad- ders, etc.	4.10
E. L. Gaouette, repairing 14 chairs .	4.00
J. Hodge, materials and labor, Vine street	6.57

Paid Peter Harris, making keys, repairing locks, repairing engine . . .	\$3.20
Head & Dowst Co., lumber and labor, various engine-houses . . .	34.25
Kimball Carriage Co., 1 splasher for Steamer No. 3	5.00
H. Leibing, 1 gallon turpentine . . .	.60
Thomas A. Lane, plumbing material and labor	151.36
Paid Manchester Locomotive Works:	
2 5-10 days' labor repairing hose carriage	10.00
4 lantern springs, special size	2.00
Metallic packing for 2 rod boxes	2.00
5-10 day's labor	2.00
Alteration of gong striking gear for supply wagon	10.80
Repairs on hose carriage	4.50
2½ days' labor	10.00
Paid Pike & Heald, repairing oil can and lantern, 6 lantern globes for Chemical, repairing lantern for Chemical	
	16.37
Fred S. Sloan, painting run board for Chemical No. 1	11.00
C. A. Trefethen, 6 bottles clock oil	2.00
C. A. Trefethen, repairing clock . . . . .	.50
D. B. Varney, repairing side sheet for engine . . . . .	.50
D. B. Varney, 204 lbs. brass castings	71.40
S. F. Haywood & Co., 1 60-gallon acid jar	15.00
C. H. Hutchinson, 1 weight, 47 lbs.	1.41
C. H. Hutchinson, 7 lbs. iron . . . . .	.21
Paid C. H. Hutchinson:	
143 hours' labor fitting brass casting	57.20

174½ hours' labor fitting brass casting	\$69.80
11½ feet wire screening	6.05
Screws, 44 lbs. castings	1.37
Paid James R. Carr & Co., 1 light glass and setting, Gen. Stark engine house	1.25
James R. Carr & Co., glass and setting same, Gen. Stark engine house	8.62
James R. Carr & Co., glass and setting, Massabesic Hose Co. house	2.35
J. J. Abbott, ½ lb. red paint . .	.13
Scrannage Bros., making acid jar	8.00
Paid Manchester Locomotive Co.:	
1 3-horse hitch attached to Hook-and- Ladder truck	160.00
Repairs on bar handle spring . . .	1.00
Setting tires on hose wagon . . .	8.50
1 side piece of grate	1.60
6 suction hose gaskets	1.02
2 hours' labor . . . . .	.80
Repairs of Gen. Stark Combination :	
24 carriage wheel spokes	2.88
9½ lbs. brass castings	2.85
4½ days' labor	18.00
For Fire King Steamer No. 2 :	
1 Amoskeag 3-horse hitch attached	160.00
1 rear steam gauge	15.00
Paid Mills & Sturtevant, materials and labor on Fire King engine house	58.46
Mills & Sturtevant, materials and labor on Vine-street station . .	13.72
Scollay & Rich, 6 qts. polish . .	3.25

 \$973.99

HARDWARE.

Paid Killey & Wadleigh, hardware, etc.	\$17.01	
Manchester Hardware Co., hardware, etc.		139.37
Wadleigh Hardware Co., hardware, etc.		73.52
John B. Varick Co., hardware, etc.		29.29
		<hr/>
		\$259.19

MEDICAL AND SURGICAL.

Paid J. Alexander, visits and medicine .	\$22.30	
A. W. Baker, dentistry on 14 horses	28.00	
J. A. Charest, visits and medicine	225.00	
E. H. Currier, 12 bottles Williams' Sure Cure		7.00
N. Chandler, 12 cans hoof ointment		9.00
E. B. Dunbar, Condition Powders		.50
A. L. Dodge, visits, medicine, and adjusting teeth		28.25
Pulsifer Chemical Co., 1 galvanized heater		4.00
A. D. Smith, medicines and disinfectants		9.66
Snelling & Woods, medicines .		47.74
Z. F. Campbell, medicines . .		11.33
		<hr/>
		\$392.78

CARRIAGE WORK AND CARRIAGE REPAIRS.

Paid A. Filion, labor on cart seat	\$1.00	
A. Filion, rivets and bolt . . . . .	.25	
A. Filion, labor on hose wagon	1.00	
J. B. McCrillis & Son, labor and materials on new carts and on repairs		471.80
Sanborn Carriage Co., labor and material on carts, engines, etc. .		71.15
		<hr/>
		\$545.20

BLACKSMITHING.

Paid D. F. Cressey	\$88.33	
Thomas Hickey	72.25	
James Morrison	1.60	
Mahaney & McSweeney	462.50	
J. O. Tremblay	116.15	
Welcome & Son, repairs	6.25	
	<hr/>	\$747.08

HAY, GRAIN, ETC.

Paid Adams & Tasker, oats, straw, hay, corn, etc.	\$427.25	
H. J. Cilley, 9,190 lbs. hay	91.90	
Wm. Clark, 25,378 lbs. hay	250.73	
H. R. Hall, 5,610 lbs. hay	56.10	
L. Shelters, 20,357 lbs. hay	224.59	
C. M. Wheeler, 10,125 lbs. hay	104.24	
Chas. D. Welch, 10,625 lbs. hay	109.46	
J. B. Huse, 1,540 lbs. hay	16.94	
Gage & McDougall, 17,550 lbs. hay	162.32	
Cavanaugh Bros., 15,720 lbs. hay	157.20	
A. B. Chase, 1,030 lbs. hay	10.30	
A. F. Davis, 1,575 lbs. hay	14.18	
H. A. Horton, 2,210 lbs. hay	19.89	
Drake & Parker, oats, meal, shorts, etc.	175.76	
Henry W. Parker, oats, shorts, bran, etc.	542.56	
Partridge Bros., oats, straw, hay, shorts, etc.	1,007.75	
Pettee & Adams, meal, corn, oats, etc.	54.56	
Stearns & Co., oats	29.25	
C. M. Watts, 5,292 lbs. straw	47.63	
P. Doyle, 2,500 lbs. straw	22.50	
J. F. Moore, 1,510 lbs. straw	13.59	

Paid Melvin Hall, pasturing 2 horses 10 weeks	\$10.00	
city farm, 7,000 lbs. carrots	63.00	
	<hr/>	\$3,611.70

HARNESS AND HARNESS REPAIRS.

Paid Fred Allen :		
7½ gals. harness dressing	\$9.30	
2 pairs rim holders and splices	2.75	
1 10-foot lash	1.00	
Other repairs	17.50	
Paid N. J. Whalen, harness dressing 50		
W. H. Adams, harness, repairs, etc.	205.95	
Paid Chas. E. Berry :		
12 rein snaps	10.00	
2 pair harnesses	40.00	
2 collars	12.00	
1 pair harnesses	20.00	
11 collars	6.00	
Paid H. C. Ranno & Son :		
1 pair woolen blankets, 90 x 96	14.50	
Leathering	2.50	
1 stable blanket, extra large	4.25	
1 pair heavy double reins	4.00	
1 team collar	4.50	
1 stable blanket	3.00	
1 halter bit	4.25	
6 Dandy brushes	2.50	
2 seat cushions	2.00	
Repairing harnesses	1.75	
6 flail whips	12.00	
Tool case	2.50	
Exercise bridle	6.50	
Repairing and altering Hook-and-Ladder harness	48.50	
Collar	3.00	
Other articles	75.70	
	<hr/>	\$516.45

LABOR.

Paid labor of men and teams, as per pay-rolls, in district No. 2 :

January	\$12.12
February	70.63
March	6.13
April	13.88
May	7.75
June	17.75
July	16.13
August	38.88
September	34.12
October	32.63
November	1.63
December	11.56
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\$263 21

SUNDRIES.

Paid John T. Gott, cleaning vaults at Massabesic hose-house	\$5.00
S. A. Garland, 14 quarts beans (Varick fire)	2.10
S. A. Garland, 4 loaves bread (Varick fire) . . . . .	.40
E. J. Knowlton, cash paid, expenses of committee to Boston and return, examination of aerial truck	30.40
Mrs. E. G. McKean, rent of stable from December 1, 1891, to April 1, 1892	8.00
Charles H. Rogers, expenses to and from Guildhall, Vt., relating to purchase of horses	6.42
H. E. Vaughan, burying dead horses	6.00

Paid Thomas W. Lane :

Cash paid for express	\$3.85	
Cash paid for carting poles and hose	1.55	
Cash paid for express	3.65	
Expenses to National Association of Fire Engineers, Louisville, Ky.	68.25	
Paid A. J. Dickey, expenses incurred by visit of fire department commit- tee and fire engineers to Concord, to place an order for a hook-and- ladder truck	4.41	
	<u>4.41</u>	\$140.03
Total expenditures		<u>\$42,262.88</u>

Fire-Alarm Telegraph.

Appropriation \$1,400.00

EXPENDITURES.**LABOR.**

Paid Thomas W. Lane, Jr., labor, as per pay-rolls :

January	\$45.50
February	43.75
March	47.25
April	47.25
May	47.25
June	42.75
July	52.50
August	49.00
September	48.25
October	47.25
November	45.50
December	49.00
	<u>565.25</u>

Paid M. S. [†] Adams, 48½ days' labor	\$72.13	
Charles Kean, labor moving wires in railroad yard	2.50	
Napoleon Lemay, 4 days' labor	5.00	
George N. Burpee, labor on fire- alarm telegraph	6.00	
	<hr/>	\$85.63

SUPPLIES.

Paid American Electrical Works, 442 feet rubber	\$8.84	
Paid Eastern Electrical Supply Co.:		
1 vise and drill	1.00	
100 rubber hooks	8.00	
100 2-inch wood cleats . . . . .	.40	
2 lbs. E. tacks . . . . .	.40	
24 rubbers . . . . .	.48	
24 prisms	6.24	
1 pair 8-inch Hub pliers and box	1.25	
100 12 x 12 connectors	6.30	
1 pair 5-inch Kent pliers . . . . .	.75	
1 Compound Electric vise	2.10	
3 lbs. E. tacks . . . . .	.38	
1 pair Weldon chambers without straps Repairing 1 chamber	2.50	1.00
3 lbs. wire tape	1.80	
Paid Electric Gas-Lighting Co., No. 1 Lamson battery	15.12	
J. Hodge, 425 feet spruce lumber	8.24	
J. Hodge, 12¾ hours' labor	5.10	
O. S. Janney & Co., 3,526 lbs. blue stone	132.23	
O. S. Janney & Co., cartage	1.25	
Manchester Hardware Co., 4 5 x 5 8 bolts . . . . .	.12	

Paid New England Gamewell Co. :	
1 Non-Interfering fire-alarm box	\$125.00
Labor and expense repairing striker and 2 gongs	17.17
6 springs for repeater . . . . .	.75
3 lightning arresters	3.00
2 signal boxes	6.00
3 plug cutouts . . . . .	.90
1 iron case with door and plate for gas box	10.00
Paid E. S. Greeley & Co., 26 binding posts, 24 double connections	
D. B. Varney, 201 zincs, \$70.35, less old junk and copper, \$59.60	5.31
D. B. Varney, 338 zinc castings	10.73
D. B. Varney, 338 zinc castings	118.30
Washburn & Moen Manufacturing Co., 282½ lbs. copper wire	40.60
James R. Carr, paint and labor	14.25
Talbot Dyewood & Chemical Co., 2 barrels vitriol, 905 lbs.	32.81
Manchester Locomotive works, 1 turned stud	1.60
Pike & Heald, 5 lbs. copper	1.20
The Electric Co., 3 poles	10.50
	<hr/>
	\$601.62
FREIGHT AND TRUCKAGE.	
Paid Concord & Montreal R. R., freight on wire and vitriol	
John W. Wilson, truckage	\$4.62
W. B. Corey, truckage, tools, and poles	2.25
	10.25
	<hr/>
	\$17.12
Total expenditures	<hr/>
Amount transferred to reserved fund	\$1,269.62
	130.38
	<hr/>
	\$1,400.00

Firemen's Parade.

Appropriation \$500.00

EXPENDITURES.

SUNDRIES.

Paid J. K. Moore, collation	\$359.10	
West Side Drum Corps, services	10.00	
First Regiment Military Band, services	52.00	
F. H. Pike, services as drum major	3.00	
Nate Kellogg, printing invitations, circulars, and programs	14.25	
Thomas W. Lane, postage	3.20	
	<u> </u>	\$441.55
Total expenditures		\$441.55
Amount transferred to reserved fund		<u>58.45</u>
		\$500.00

Police Department.

Appropriation	\$37,300.00	
Transferred from reserved fund	3,105.28	
	<u> </u>	\$40,405.28

EXPENDITURES.

SERVICES.

Paid N. P. Hunt, police justice	\$1,500.00
Isaac L. Heath, associate justice	98.00
Geo. W. Prescott, associate justice	2.12
J. C. Bickford, clerk	600.00
H. W. Longa, marshal	12.50

Paid Michael J. Healy, marshal	\$900.00	
J. F. Cassidy, assistant marshal	800.00	
night patrol	21,626.26	
day patrol	5,637.39	
extra time of regular patrol	2,141.02	
extra time of special patrol	1,521.68	
Peter Larrabee, as janitor	642.25	
Miss A. B. Brown, as matron	412.00	
Myra W. Spalding, as matron	10.00	
C. B. Hildreth, 7 days' police service	25.00	
	<hr/>	\$35,928.22

GAS, ELECTRIC LIGHTS, AND FUEL.

Paid People's Gas-Light Co., for gas	\$61.18	
Electric Company, 28 electric lights from Dec. 1, 1891, to Dec. 31, 1892	354.67	
DeCourcy, Holland & Marshall, 104,955 lbs. egg coal at \$6.25	327.98	
E. P. Johnson Co., 12,875 lbs. L. broken coal at \$6.25	40.23	
Dunlap & Wason Coal Co., 35,590 lbs. egg coal at \$5.95	105.88	
	<hr/>	\$889.94

WATER, TELEPHONE, AND TELEGRAPH.

Paid Water-Works, use of water from April 1 to December 31	\$207.90	
New England Telephone & Telegraph Co., use of telephones	169.85	
J. Dana & Son, use of telephone at McGregorville	4.00	
Western Union Telegraph Co., for telegrams	33.51	
	<hr/>	\$415.26

TEAMS.

Paid W. J. Freeman, use of teams . . .	\$103.50	
C. H. Simpson, use of team . . .	9.00	
E. T. James, use of teams . . .	164.75	
H. W. Longa, use of horse and wagon from August 1, 1889, to January 1, 1892	125.00	
J. C. Nichols & Son, use of teams	11.00	
A. L. Jenness & Son, use of team	1.00	
Whitten & Fifield, use of team	1.50	
G. H. Nichols & Co., use of team	1.00	
	<hr/>	\$416.75

FEEDING AND CONVEYING PRISONERS.

Paid Mrs. Thomas Francoeur, board and care of lost children	\$22.00	
Daniel Davis, rations furnished at police station from January 4, 1891, to December 30, 1891	204.75	
Daniel Davis, rations furnished from January 1 to December 13, 1892	203.61	
Robitaille Bros., groceries	19.39	
W. D. Ladd & Co., 48 lbs. common crackers	2.55	
McQuade Bros., 87 lbs. crackers	5.00	
Carl E. York, 47 lbs. crackers	2.39	
Longa & Cassidy, conveying prisoners to House of Correction, from December 22, 1891, to January 5, 1892	21.00	
Healy and Cassidy, conveying prisoners to House of Correction, etc.	848.00	
M. J. Healy, conveying Joseph Devine to insane asylum	3.80	
officers Fowler and Welch, conveying Joseph Devine to insane asylum	4.50	
	<hr/>	\$1,336.99

PRINTING AND STATIONERY.

Paid John B. Clarke Co., printing :	
800 blank warrants for court	\$16.00
2,050 letter headings, postals, envelopes, and quarterly reports	9.50
Roll-call, blank book	4.00
1,300 slips and envelopes	3.75
300 half-note circulars	2.50
400 blank writs	6.00
750 notices	3.00
4,600 cards, envelopes, letter headings, and other blanks	33.00
3,000 writs	13.00
400 circulars	1.75
450 blanks	10.00
Advertising Fourth of July notice	3.00
Paid A. S. Campbell & Co., printing	
civil dockets for police court	44.00
A. S. Campbell & Co., printing	
blanks for court	12.25
A. S. Campbell & Co., printing	
1,100 mittimuses	7.00
Paid W. P. Goodman :	
1 scrap-book	1.50
36 standard diaries	21.00
6 blotting sheets . . . . .	.33
2 record books	1.75
1 quart Carter's ink . . . . .	.60
Paid Temple & Farrington Co.:	
1 Public Statutes for police court	3.00
Ink, paper, and pens for police court	3.27
1 cash book	2.25
1 journal	2.25
1 Public Statutes	3.00
Blank books and other stationery	16.78
Paid Union Publishing Co., publishing	
notice, fireworks, 3 squares 2 times	4.50

 \$228.98

MEDICAL AND SURGICAL.

Paid Dr. I. L. Carpenter :

Ether to James Thompson	\$3.00
Attending one Greenwood, found on railroad	1.50
Attending one Dickinson, 4 Canal street	1.50
Attending one Flanders, insane, night call	2.50

Paid L. K. Mead :

82 bottles ammonia	10.66
6 sponges . . . . .	.75
Prescriptions	3.55
Oil of cedar and roach exterminator .	.65

Paid Dr. Frederick Perkins :

Dressing gunshot wound in arm of Jerry Cronin, Jr., 10 times	10.00
Treatment of broken jaw of Patrick Dillon	15.00
Sewing up wounds around left eye, Kane	3.00
Setting dislocated shoulder for Mary Clark	5.00
Sewing up scalp wound and ear for Clovis Goodreau	5.00
Scalp wound and fracture of shoulder blade, Jerry Burke	5.00
Sewing up wound in wrist of Martin Brown	3.00
Sewing up scalp wound extending across the forehead from outside of one eye to outside of the other for Mrs. Davis, and subsequent care	10.00
Wound of Daniel Long, bitten by dog	2.00
Dressing wound on back, John Ken- nedy, bitten by a dog	3.00

Sewing scalp wound for John Wells	\$3.00
Dressing two wounds over eye and one on nose for Michael Godfrey	5.00
Sewing scalp wound on back of head for Antoine Ready	3.00
Sewing wound under the chin for An- toine Therrien	3.00
Dressing scalp wound three inches long on back of head for Kate Chadwick	5.00
Dressing hand of Patrick Connor, cut in five places	5.00
Sewing up eight large scalp wounds and several small ones for Maurice Houlihan, and nine subsequent visits	15.00
Attendance on James Thompson at police station sewing upper lip, which was cut from the right angle of the mouth by the left nostril ; sew- ing wound under left eye ; sewing wound on forehead and setting frac- tured nose	15.00
Dressing incised wound over eye for William Warren	3.00
Dressing scalp wound on back of head three inches long for John Doyle	5.00
Attendance on James Quinn, broken ankle, plaster bandage	5.00
Dressing lacerated wound under left eye for Lucy Colville	3.00
Attendance on one Gevorge, stoppage, catheterization	3.00
Sewing up hand of one Houlihan	5.00
Paid F. H. Thurston, prescriptions	3.30
F. H. Thurston, 102 lbs. ammonia	12.24
Dr. M. E. Kean, services in case of Chas. D. Magoon, suicide	1.50

Paid Dr. M. E. Kean, sewing wounds of scalp and lower lip and after treatment of Mark Carr	\$5.00	
Dr. M. E. Kean, treatment, Mrs. Wm. Patnaude	4.50	
Dr. D. S. Adams, surgical attendance on Frank Tucker	10.00	
	<hr/>	\$199.65

REPAIRS.

Paid L. M. Aldrich, materials and labor	\$85.77	
Jas. R. Carr & Co., paint and labor	11.27	
Aloysius Eastman, brick, cement, and labor resetting locks on cell doors	2.96	
R. D. Gay, repairing flag . . . . .	.50	
R. D. Gay, shades and pulleys	2.85	
Peter Harris, repairing cell and safe locks, hinge, and door shutter	6.25	
John Smiley, repairing bunks	1.00	
N. J. Whalen, repairing police belts	3.25	
Manchester Heating and Lighting Co., electric materials and labor	3.90	
M. J. Coleman, repairs on water-closets, etc.	94.85	
R. D. Martin, re-nickeling and reforming No. 24 police badge . . . . .	.75	
C. W. Anderson & Co., repairing clock, city marshal's office	1.00	
C. W. Anderson & Co., repairing clock, Judge Hunt's office	1.00	
J. J. Abbott, painting, glazing, etc.	9.26	
L. & W. T. Seiberlich, 4 lights glass and setting	1.20	
	<hr/>	\$225.81

SUNDRIES.

Paid Concord & Montreal R. R., freight	\$0.25
Miss A. B. Brown, furnishing room for matron	75.00
John Driscoll, mop waste	1.95
E. H. McQuade, 2 electric batter- ies	1.40
E. H. McQuade, 3 hours' labor . .	1.20
J. G. Brown, 1 office chair	5.50
L. W. Colby, photographing pris- oners	32.00
J. T. Langley, 6 card photographs of Chas. Smith	1.00
West Side Steam Laundry, laundry work on blankets	1.60
Mrs. Filbert, washing blankets, tow- els, and cleaning and scrubbing	87.90
Gazaille & Co., 40 yards crash . .	4.80
Gazaille & Co., 6 towels	1.50
Dennis Kerwin, soapine	8.00
Manchester Hardware Co., 3½ oz. sponge . . . . .	.70
J. B. Varick Co., 6 brooms, 1 os- trich duster, 1 pail, 1 lock, 1 mop-stick, window and scrub brushes, and other hardware . .	16.88
Paid Clark M. Bailey :	
2 cases toilet paper	20.00
500 1-pound bags . . . . .	.60
5 gross Portland matches	2.50
1 case toilet paper	10.00
Paid Thomas D. Luce, certifying sundry appeals to police court	
H. W. Longa, cash paid out in sundry cases	21.25

Paid M. J. Healy, cash paid witness fees and other expenses	\$439.25	
W. H. Drury, services for two mi- nors under the age of sixteen years	2.00	
J. G. Ellinwood, 1½ doz. photo- graphs	3.00	
L. B. Bodwell & Co., 20 lbs. ice daily	8.40	
Clement Langers, 1 stove, station, West Manchester	10.00	
	<u> </u>	\$763.68
Total expenditures		<u>\$40,405.28</u>

Repairs of Buildings.

Appropriation	\$2,500.00	
Amount transferred from reserved fund	<u>392.75</u>	\$2,892.75

EXPENDITURES.

Paid Lovejoy & Stratton, labor and care of clocks on schoolhouses and other public buildings, from Jan- uary 5, 1891, to December 31, 1891	\$301.75
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CITY HALL.

Paid William E. Williams, slate, zinc, and labor re- pairing roof	\$27.99
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WARD ROOM, LAKE AVENUE.

Paid Head & Dowst Co., lumber and labor	\$24.30
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CITY LIBRARY.

Paid L. M. Aldrich, lumber and labor	\$12.59
Thomas A. Lane, 11 feet portable tubing	2.75

Paid Thomas A. Lane, labor on gas	\$0.53	
Thomas A. Lane, materials and labor on gutter, etc.	14.85	
Head & Dowst Co., 1 hour's labor . . . . .	.28	
W. M. Darrah, labor and materials, slating, including bill of Head & Dowst Co., of \$5.73	13.91	
Charles E. Lord, mason work and stock	4.12	
	<hr/>	\$49.03

BATTERY BUILDING.

Paid Thomas A. Lane, labor on sink, gas, etc.	\$2.67	
Wm. H. Sullivan, tinting ceiling in Emmet Guards hall in water colors, and battery hall ceiling in oil colors	115.00	
Jones & Co., painting cannon room as per contract	80.00	
Head & Dowst Co, lumber and labor	29.50	
L. M. Aldrich, lumber and labor	3.44	
	<hr/>	\$230.61

CITY YARD, STOREHOUSE, AND STABLE.

Paid Head & Dowst Co., lumber, labor, etc.	\$174.14	
Head & Dowst Co., 558 feet gravel roof	25.11	
G. W. Hamlin, paints and labor on storehouse	12.04	
	<hr/>	\$211.29

ENGINE HOUSES.

Paid L. M. Aldrich, lumber, labor, and hardware at Massabesic Hose house	\$29.87
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Paid John Bryson, paints and painting Vine-street engine-house	\$46.50
M. J. Coleman, plumbing material and labor, Vine-street engine- house	319.00
W. M. Darrah & Co., material and labor on roof, Vine-street en- gine-house	4.61
Joel Daniels & Co., painting and papering tenements, Vine-street engine-house	42.93
John Driscoll, labor and material tinning roof, Vine-street engine- house	15.25
John Driscoll, labor and material on roof, Webster-street engine-house	48.50
James P. Finn, stock and painting on Central fire station, and Mer- rimack engine-house	166.91
Paid Head & Dowst Co., labor, lumber, hardware :	
Vine-street engine-house	519.43
Merrimack engine-house	65.44
Clinton-street engine-house	9.84
Webster-street engine-house	28.56
Massabesic Hose house	9.26
Stone work on Lake-avenue engine- house	26.94
Paid Jones & Co., stock and labor paint- ing and papering Webster-street engine-house	16.80
Jones & Co., stock and labor paint- ing and papering Massabesic Hose house	29.85
Thomas A. Lane, labor and plumb- ing materials at Massabesic Hose house	104.78

Paid Thomas A. Lane, 1 Sheffield grate	\$32 00	
John F. Larkin, repairs on waste pipe and bath tub, Webster-street engine-house	6.00	
Chas. E. Lord, mason work at Vine-street engine-house, and Massabesic Hose house	28.05	
Mills & Sturtevant, lumber, hardware, labor on Fire King engine-house	87.05	
Mills & Sturtevant, paper, and hanging same, and whitewashing two halls	36.55	
Pike & Heald, stable drain, etc., at Webster-street engine-house	24.65	
Pike & Heald, piping	14.00	
Pike & Heald, repairing water pipe, Vine-street engine-house	1.80	
Manchester Hardware Co., 2 floor lights, B. E. wrought door	21.00	
William E. Williams, repairing gravel roof around ventilators, and roofing ventilators, Vine-street engine-house	26.96	
	<hr/>	\$1,762.53

COURT-HOUSE.

Paid J. J. Abbott, 12 lights glass and setting	\$8.20	
James R. Carr & Co., 2 lights glass and setting	1.43	
	<hr/>	\$9.63
Paid labor of men and teams, as per pay-rolls, district No. 2 :		
January	\$26.49	
February	25.50	
March	21.00	

April	\$21.00	
May	21.00	
June	28.63	
July	21.00	
August	25.50	
September	21.00	
October	21.00	
November	25.50	
December	18.00	
	<hr/>	\$275.62
Total expenditures		\$2,892.75

New Schoolhouse, Hallsville.

Balance from old account	\$101.95	
Appropriation	8,000.00	
Amount transferred from reserved fund	743.66	
	<hr/>	\$8,845.61

EXPENDITURES.

ARCHITECTS' COMPENSATION.

Paid McFarland, Goodrich & McFarland, balance due for services	\$303.00
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ON CONTRACT.

Paid Head & Dowst Co., final payment on contract	\$5,560.00
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ON FURNITURE.

Paid Head & Dowst Co. :		
1 No. 25 teacher's desk	\$24.00	
1 No. 20 teacher's desk	34.00	
Freight and teaming desks	1.34	
School furniture	545.58	
	<hr/>	\$604.92

EXTRAS ON BUILDING.

Paid Head & Dowst Co.:

1 No. 1 striking town clock, 4 dials	\$407.00	
1 bell, 1,519 lbs.	326.59	
1 set No. 1 hangings	48.30	
900 lbs. clock weights	22.50	
282 hours' labor of men	73.57	
Lumber, bolts, screws, hinges, team- ing, freight, iron, etc.	45.66	
Grading, extra	271.07	
2 6-inch beams, change over front en- trance	13.90	
5 galvanized screens and screws	22.01	
Lathing and plastering ceiling in base- ment	132.80	
Blacksmith work on vane	1.00	
Lumber, basement, tower, and walk	48.91	
Hardware, window weights, nails, screws, windows in second story	71.40	
Labor on all above, blinds and walks	89.61	
Painting tower and blinds	88.50	
Inside blinds	184.06	
Slatting, change from shingles	394.64	
Plumbing in basement, sinks, etc.	53.15	
Tinning scuttle, tower changed on ac- count of bell.	2.52	
Gas piping, tower to clock	9.00	
Electric and tube work, additional	35.50	
Paid John B. Varick Co., 1 weather vane	36.00	
		\$2,377.69
Total expenditures		\$8,845.61

Engine-House and Ward Room, Ward 9.

Appropriation	\$10,000.00
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EXPENDITURES.

LAND.

Paid Edmond St. John and Amoskeag Manufacturing Co., lot No. 2,987 in McGregorville, 6,090 sq. ft., at 14½c.	\$870.00	
	<u> </u>	\$870.00
Total expenditures		\$870.00
Amount transferred to new account		9,130.00
		<u> </u>
		\$10,000.00

Addition to Goffe's Falls Schoolhouse.

Amount transferred from reserved fund	\$2,000.00
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EXPENDITURES.

Paid Head & Dowst Co., building addition as per contract	\$2,000.00
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Water-Works, Construction Account.

Appropriation	\$25,000.00
Amount transferred from Water-Works, repairs	5,000.00
	<u> </u>
	\$30,000.00

EXPENDITURES.

LABOR.

Paid men, as per pay-roll:

April	\$200.00
May	630.00

June	\$400.00
July	450.00
August	550.00
September	550.00
October	635.00
November	610.00
December	600.00
	<hr/>
	\$4,625.00

SUPPLIES.

Paid Boston Belting Co.:	
300 feet linen hose	\$90.00
2 sets 2½-inch coupling	5.00
1 2½-inch nozzle	4.00
Express . . . . .	.15
Paid Builders' Iron Foundry, 125 branches	
Chadwick Lead Works, 1,291¾ lbs.	647.72
3-lb. pipe	69.86
Chadwick Lead Works, 23,132 lbs.	
pig lead	969.90
Chadwick Lead Works, 100 lbs.	
solder	15.00
Paid Chapman Valve Co.:	
10 5-foot hydrants	343.54
4 10-inch water gates	123.12
15 8-inch water gates	303.15
4 12-inch water gates	167.04
3 20-inch water gates	372.33
Paid F. R. French, 60 chestnut posts at	
12c.	7.20
Hersey Mfg. Co., 6 5/8 brass meters	82.80
Hersey Mfg. Co., 6 set couplings .	4.50
Hersey Mfg. Co., boxing	1.50
New England Water Pipe Co.,	
3,150 feet 1-inch pipe at 15c.	472.46
New England Water Pipe Co., 547	
feet pipe	54.79

Paid New England Water Pipe Co., 2,045 feet 2-inch pipe at 15c.	\$306.77
Holyoke Hydrant & Iron Works, 10 double and steamer hydrants, 5½ feet long	342.50
Holyoke Hydrant & Iron Works, 200 No. 3 service boxes	180.50
Paid National Meter Co.:	
325 Crown Comp. meters	5,143.75
7 ¾-inch Crown Comp. meters	177.00
2 1-inch Crown Comp. meters	70.00
38 glasses . . . . .	.41
Paid Pratt & Cady Co., 20 5 and 5½-	
foot hydrants	640.00
Peet Valve Co., 9 4-inch H. E. gates	72.00
Peet Valve Co., 45 6-inch H. E. gates	540.00
Peet Valve Co., 2 2-inch brass valves	6.00
Smith & Anthony Stove Co., 2 14- inch S. A. bands, 1 cocks	11.00
Smith & Anthony Stove Co., 3 6- inch S. A. bands, ¾ cocks	7.20
Sewall & Day Cordage Co., 12 coils, 1,288 lbs., jute packing	83.72
Union Brass Co., curb stops, corp. cocks, etc.	580.71
Paid Geo. Woodman & Co.:	
1,059½ feet 1-inch E. pipe	95.89
200 Clo. nips	6.00
118½ lbs. E. mall	16.36
50 ½-inch En. coupling	1.50
Barrel and bag . . . . .	.35
Paid Adams & Tasker, 4 barrels cement	
McNeil Pipe and Foundry Co., cast-iron pipe	5.80 7,845.34

Paid Chas. K. Walker, cash paid for ex- press	\$3.30	
Manchester Locomotive Works, 2,833 lbs. cast- ings, domes, covers, plugs, sleeves, at 3c.	\$84.99	
Cr. 2,580 lbs. old iron	15.48	
	<hr/>	69.51
Paid Manchester Locomotive Works, 5 hours' labor drilling, etc.	2.00	
	<hr/>	\$19,941.68

HARDWARE, BLACKSMITHING, FREIGHT.

Paid Boston & Maine R. R., freight on pipe, etc.	\$65.30	
Concord & Montreal R. R., freight on pipe, etc.	1,402.15	
D. F. Cressey, sharpening and re- pairing tools, etc.	49.18	
James Morrison, sharpening and re- pairing tools, etc.	45.07	
Killey & Wadleigh, 1 doz. round- point shovels	10.50	
Killey & Wadleigh, 1 doz. pick handles	2.00	
Killey & Wadleigh, 15 lbs. boat pitch . . . . .	.75	
Wadleigh Hardware Co., 2 kegs blasting powder	5.50	
John B. Varick Co., hardware	48.76	
	<hr/>	\$1,629.21

LAND.

Paid Jas. M. Webster heirs, land as per deed	\$3,000.00
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SUNDRIES.

Paid J. J. Abbott, paints, painting, pa- per, and hanging same	\$33.84
J. Hodge, 30 feet 1½-inch birch	1.20

WATER-WORKS, REPAIRS.

597

Paid J. Hodge, 12½ hours' labor	\$5.00	
Thos. A. Lane, plumbing materials and labor on bathroom at station, etc.	175.00	
	<u>175.00</u>	\$215.04
Total expenditures		\$29,410.93
Amount transferred to reserved fund		589.07
		<u>\$30,000.00</u>

Water-Works, Repairs.

Appropriation	\$22,000.00
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EXPENDITURES.

LABOR.

Paid labor of men, as per pay-rolls :

January	\$704.32	
February	749.03	
March	777.40	
April	587.20	
May	284.79	
June	769.87	
July	502.14	
August	670.72	
September	393.77	
October	321.28	
November	552.08	
December	389.90	
	<u>389.90</u>	\$6,702.50

IRON PIPE, CASTINGS, LEAD, ETC.

Paid Builders Iron Foundry, 30 branches and bends	\$124.90
Chadwick Lead Works, 100 lbs. solder	15.00

Paid Chadwick Lead Works, 12,097 lbs. pig lead	\$524.17
Holyoke Hydrant & Iron Works, repairing hydrant	10.14
Holyoke Hydrant & Iron Works, 1 new chest, complete, for 4-inch hydrant	20.00
McNeil Pipe & Foundry Co., pipe, less freight	5,000.00
Paid Manchester Locomotive Works :	
7,414 lbs. castings, plugs, sleeves, domes, covers, at 3c.	222.42
3½ hours' labor, drilling cocks	1.40
5 hours' labor on chuck	2.00
171½ hours' labor	68.60
1 crank pin, 128 lbs., blown steel	6.40
Washer and nut, 19 lbs., forged iron . . . . .	.57
Teaming, four trips	5.00
74½ hours' labor \$29.80	
196 lbs. blown steel 7.84	
100 4½ x ¾ 6-sq. head bolts, 100 lbs. nuts 8.00	
	<hr/>
	\$45.64
Cr. by 760 lbs. old iron 6.08	
	<hr/>
	39.56
1,371 lbs. castings, plugs, sleeves, etc.	41.13
Paid Pratt & Cady Co., 1 5½ x 5 hydrant	32.00
Peet Valve Co., 6 4-inch water gates	48.00
Thompson Meter Co., repairing 2 1-inch meters	10.00
Union Water Meter Co., repairing water meters	224.81
Henry R. Worthington, repairing 3 meters	19.57
National Meter Co., repairing meters	24.25

Paid J. Hodge, 275 boxes	\$82.50	
J. Hodge, 1 case	6.50	
J. Hodge, cutting down desk . . . . .	.50	
Sumner & Goodwin, 100 No. 28 stop boxes	90.00	
Sumner & Goodwin, cartage	1.00	
D. B. Varney, $\frac{3}{4}$ lb. castings . . . . .	.22	
	————	\$6,620.64

OIL, BELTING, PACKING, AND OTHER SUPPLIES.

Paid Edson Manufacturing Co., 16 feet suction hose	\$25.08	
Edson Manufacturing Co., set of couplings	3.56	
Edson Manufacturing Co., 1 G lobe strainer	3.80	
J. Stickney, 1 pair $\frac{1}{2}$ long heavy mitts	1.75	
J. Stickney, 25 rubber gaskets	2.50	
J. Stickney, 1 pair heavy mitts	1.75	
Eager & Rand, oil, soap, etc.	23.18	
George Woodman & Co., plumbing materials, nipples, etc.	127.24	
Thomas A. Lane, plumbing mate- rials, etc.	109.53	
John T. Beach, work on pole . . . . .	.75	
Paid L. B. Bodwell & Co. :		
91,645 lbs. B. M. egg coal, at \$7.00	320.76	
2 barrels charcoal . . . . .	.90	
5 tons egg coal	36.25	
$\frac{1}{2}$ ton stove coal	3.50	
16 $\frac{1}{4}$ feet wood, sawed and split	19.34	
Paid E. C. Haskell, load of wood	2.50	
P. C. Cheney Co., 50 lbs. waste	4.00	
William P. Miller & Co., keg lu- bricant, 115 lbs., at 18c.	20.70	

Paid A. M. Eastman, 75 gallons oil	\$12.75
Dennis Kerwin, 157 lbs. tallow at 6c.	9.42
Pettee & Adams, 8 barrels cement	13.15
Adams & Tasker, 18 barrels cement	27.65
Adams & Tasker, 126 lbs. oatmeal . . . . .	.88
Leonard & Ellis, 208½ gallons oil	145.50
George R. Vance, 12 galvanized pails	12.00
Paid E. A. G. Holmes:	
100 hours' labor at reservoir	28.50
298 feet Georgia pine at reservoir	11.52
23 days' labor on gear teeth at station Lumber, sawing and planing, teaming, station	65.50
	21.90
Paid repairs at pumping station :	
88 days' labor	227.00
Mason labor	12.75
Trucking	4.00
Lumber, mortar, repairing slate	76.62
Screen door, door frame, sash, molding Labor at office	5.88
	.60
8 days' labor at \$3.00 ; 9 days' labor at \$2.50 ; lumber, building boat	86.09
Paid Charles E. Lord, 2 casks lime, at station	
	2.00
Shirley & Smith, materials and ma- son labor at station	9.00
Head & Dowst Co., lumber and labor on derrick	9.08
John Driscoll, dippers, gallon meas- sures, etc.	4.45

 \$1,493.33

BLACKSMITHING, HARDWARE, FREIGHT.

Paid C. H. Hutchinson, $37\frac{3}{4}$ hours' labor, making and finishing rods, forging, making washers, etc.	\$19.47
C. H. Hutchinson, 127 lbs. iron	3.96
S. C. Forsaith Machine Co., 20 lbs. boiler plate	1.20
S. C. Forsaith Machine Co., 24 No. 20 machine screws . . . . .	.15
S. C. Forsaith Machine Co., 17 hours' labor	6.80
D. F. Cressey, sharpening tools, etc.	49.31
Manchester Hardware Co., hardware, all kinds	8.70
John B. Varick Co., hardware	178.36
Boston & Maine R. R., freight on pipe, etc.	33.69
Concord & Montreal R. R., freight on pipe, etc.	9.23
	<hr/>
	\$310.87

DAMAGES.

Paid Thomas E. McDerby, goods damaged by water	\$274.82
John J. Hersey, personal damages	100.00
Charles H. Robie estate, 32 yards concrete on Manchester street	16.00
Charles H. Robie estate, $75\frac{2}{3}$ yards concrete on Laurel and Pine	37.82
Charles H. Robie estate, $38\frac{1}{3}$ yards concrete, Pleasant street	19.16
Charles H. Robie, $51\frac{1}{2}$ yards concrete, repairing Chestnut street, corner Amherst	20.60

Paid Charles H. Robie, 51 yards concrete, repairing at Head & Dowst Co.'s office	\$20.40	
C. H. Robie, 214 yards concrete, repairing Vine street	82.60	
C. B. Littlefield, hooks, lumber, glass, putty, and labor at corner Pine and Laurel streets	1.08	
Mrs. Charles Clough, damage to house and cellar, Pearl street	25.00	
	<u> </u>	\$597.48

SUNDRIES.

Paid E. T. James, hack and carriage hire	\$31.00	
C. G. H. Bennink, 12 $\frac{5}{8}$ -band rubbers . . . . .	.60	
	<u> </u>	\$31.60
Total expenditures		\$15,756.42
Amount transferred to water-works, construction account		5,000.00
Amount transferred to reserved fund		1,243.58
		<u> </u>
		\$22,000.00

Water-Works, Current Expenses.

Appropriation	\$5,000.00
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EXPENDITURES.

Paid Charles K. Walker, salary as superintendent	\$1,600.05	
for gas	16.66	
express and telegrams	2.23	
2 inkstands and postage stamps	22.15	
sundries	2.44	
James A. Weston, services as clerk of water board	100.00	
	<u> </u>	\$1,743.53

Paid labor, as per pay-rolls :

January	\$203.33	
February	207.33	
March	203.33	
April	203.33	
May	203.33	
June	203.33	
July	203.33	
August	203.33	
September	203.33	
October	203.33	
November	203.33	
December	203.34	
	<hr/>	\$2,443.97
Paid E. T. James, use of teams and hacks	\$37.50	
F. H. Partelow, use of steamboat .	7.50	
F. H. Partelow, refreshments .	3.00	
F. W. Elliot, dinner for commis- sioners	5.00	
F. W. Elliot, dinner for water board, annual inspection . . .	12.00	
Joseph B. Sawyer, services of self and assistants making sundry sur- veys, plans, recording deeds, etc., from December 19, 1891, to No- vember 22, 1892	166.85	
New England Telephone and Tele- graph Co., use of 3 telephones .	108.00	
Paid John B. Clarke Co., printing :		
15,000 bills	34.00	
500 reports, 32 pages, and cover .	31.00	
1,200 blanks of various kinds . .	6.75	
Advertising 1 line at sundry times .	8.50	
Paid Union Publishing Co., advertising sundry notices	8.25	
Paid A. S. Campbell & Co., printing :		
2,000 postals and printing	24.25	

1,500 note heads in blocks	\$5.50
13,700 water notices	20.10
500 postals and printing	6.00
1,700 bill heads	9.50
Paid N. P. Hunt, services in drawing lease	2.00
N. P. Hunt, services in Brown deed	2.00
N. P. Hunt, services in Webster deed	2.00
Gilman B. Hoyt, recording deeds	.77
Paid town of Auburn :	
Tax on J. P. Chase land, 1892	1.10
Tax on store land, 1892	12.04
Griffin & Chase land, 1892	2.49
G. & G. W. Reed land, 1892	6.33
Neal land, 1892	2.49
Page land, 1892 . . . . .	.57
Woodbury & Brown land, 1892	4.38
Whittemore land, 1892	6.57
Paid John Bryson, painting 3 signs	2.50
E. R. Coburn & Co., rubber bands, envelopes, paper, and other stationery	14.06
Moore & Preston, 5 tons egg coal	37.50
	<hr/>
	\$590.50
	<hr/>
Total expenditures	\$4,778.00
Amount transferred to reserved fund	222.00
	<hr/>
	\$5,000.00

Commons.

Appropriation	\$3,000.00
Transferred from reserved fund	726.64
	<hr/>
	\$3,726.64

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls:

January	\$6.50	
February	42.50	
April	199.75	
May	234.50	
June	305.50	
July	180.25	
August	140.75	
September	156.75	
October	183.75	
November	94.00	
December	55.25	
	<hr/>	\$1,599.50

Paid as per pay-roll, district No. 2:

January	\$10.34	
February	71.48	
March	6.25	
May	1.75	
June	9.93	
	<hr/>	\$99.75

REPAIRS AND GENERAL EXPENSES.

Paid L. M. Aldrich, repairing fence, etc.	\$2.63
L. M. Aldrich, filing saws, etc. . .	2.00
S. C. Dwinnells, 6 rakes and repairing 5 rakes	4.60
F. S. Bodwell, labor repairing fence on Merrimack square . . .	25.75
Paid S. C. Forsaith Machine Co.:	
Repairs on lawn mower	1.00
1,580 feet chestnut, Merrimack common	39.50

112 feet spruce, Merrimack common	\$2.24
10 hours' labor, Merrimack common	4.00
Paid Water-Works, use of water	600.00
Paid Flint & Little :	
Making 1 new and repairing 1 old ladder	6.33
Filing saws, etc.	2.04
Labor, lumber, and hardware on band stands	43.71
45 hours' labor on tree boxes	11.25
Paid Head & Dowst Co., 152 feet 1 by 6 spruce, Merrimack common	2.43
Higgins Bros. Co., 100 settees, as per contract	437.50
Paid C. H. Hutchinson :	
Sharpening and repairing lawn mowers	32.29
17 hours' labor, repairs on fence	6.80
2 lbs. iron . . . . .	.06
1 grate, 197 lbs.	2.91
Screws . . . . .	.15
Paid Peter Harris, sharpening lawn mowers	3.00
Paid H. Leibing :	
Painting iron fence on Merrimack common	135.00
Painting fence around monument	13.05
Painting fountains, fences, and urinal	29.17
Painting band stand, Concord com- mon	22.12
Paid Thos. A. Lane, labor and materials, Hanover spring and fountain	8.25
Thos. A. Lane, dippers, sheet cop- per, and labor on fountains	26.58
J. B. McCrillis, repairing mowing machine	1.65
J. B. McCrillis, repairing horse rake	1.25

Paid David Thayer, stove and stovepipe	\$2.50
L. Pope, making 26 irons for seats	3.00
L. Pope, iron for gate . . . .	.50
L. Pope, sharpening picks and drills	4.90
Paid Pike & Heald, for band stand, Concord common :	
296 lbs. galvanized iron	22.20
25 lbs. solder	5.00
5 lbs. nails . . . . .	.50
26 hours' labor	12.60
Paid A. & D. M. Poore, $\frac{1}{2}$ ton Cum- berland coal	3.25
A. & D. M. Poore, wood . . . .	.50
Carl E. York, 6 barrels	3.00
Sargent & Corson, 19 lbs. Mars green	3.42
Sargent & Corson, $\frac{1}{2}$ gal. spirits	.25
John B. Varick Co., garden rakes, wire, pails, brooms, rifles, wire nails, weeding hooks, staples, oil, chains, screws, lantern globe, etc.	68.39
Adams & Tasker, 2 casks N. ce- ment	2.70
John J. Bennett, 230 brick and $\frac{1}{4}$ day's labor	2.47
A. J. Sawyer, 4,139 feet planks and boards	66.22
	<hr/>
	\$1,668.66

FLOWERS, LOAM, ETC.

Paid J. N. Auger, 316 bushels leached ashes	\$36.48
H. H. Huntress, plants for Merri- mack common	49.25
J. S. Holt & Co., 8 cords, 60 bush- els, leached ashes	107.50

Paid Manchester Slaughtering & Rendering Co., 1,000 lbs. fertilizer stock	\$10.00	
Ray Brook Gardens, plants for Hanover common	20.00	
John B. Varick Co., redtop, white clover, and other seeds	29.50	
D. H. Young, 8 feet manure	4.00	
Frank Fitts, plants for Hanover common	20.00	
A. G. Hood, filling 3 flower beds on Tremont common	60.00	
H. E. Babcock, 1,100 tulips	22.00	
	<hr/>	\$358.73
Total expenditures		<hr/> \$3,726.64

Stark Park.

Appropriation	\$1,500.00	
Amount transferred from reserved fund . . . . .	.25	
	<hr/>	\$1,500.25

EXPENDITURES.

LABOR.

Paid men and teams, as per pay-roll, commons:

June	\$18.00	
September	153.50	
October	242.50	
November	51.75	
	<hr/>	\$465.75

ENGINEERING SERVICES.

Paid Morton & Quimby, furnishing design for Stark park garden	\$1,000.00
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TOOLS.

Paid A. & W. S. Heath, 5 pairs rubber boots	\$14.75	
Paid John B. Varick Co.:		
1 Clipper scythe60	
1 ash snath . . . . .	.50	
1 3-horse Yankee plow	14.50	
1 2-horse Yankee plow point . . . . .	.65	
4 bolts and 2 pick handles . . . . .	.60	
	<u> </u>	\$31.60

BLACKSMITHING.

Paid Leander Pope, sharpening tools	<u>\$2.90</u>
Total expenditures	\$1,500.25

Pine Grove Cemetery.

Appropriation	\$6,600.00	
Amount transferred from reserved fund	<u>761.26</u>	
		\$7,361.26

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls:

January	\$186.38
February	201.95
March	149.61
April	241.49
May	361.89
June	517.65
July	404.85

August	\$591.87	
September	512.70	
October	440.85	
November	256.10	
December	156.00	
	<hr/>	\$4,021.34

LAND.

Paid Harriet James for land, deed dated June 28, 1892	\$260.15	
John ^s C. Ray, land, deed dated June 28, 1892	260.14	
	<hr/>	\$520.26

PLANTS, TREES, LOAM, CLAY, ETC.

Paid H. H. Huntress, plants of all kinds	\$51.10	
J. L. Golden, 7 loads loam	3.50	
Joseph Quirin, 36 loads loam	54.00	
Waterman Smith, 250 feet turf	5.00	
Gordon Woodbury, 225 loads loam	281.25	
C. C. Webster, 354 loads clay	354.00	
Crafts & Green, 88 loads loam	44.00	
John Muir, 15 loads loam	7.50	
John B. Varick Co., grass seed, etc.	19.10	
	<hr/>	\$819.45

WATER, TELEPHONE, FUEL.

Paid Water-Works, 332,000 cubic feet water at 15c.	\$498.00	
New England Telegraph & Tele- phone Co., use of telephone, cemetery, and house of superin- tendent	84.00	
E. P. Johnson Co., 4 tons egg coal	28.50	
	<hr/>	\$610.50

BOOKS AND STATIONERY.

Paid William E. Moore :

Printing and binding 1 blank book	\$4.00
Printing and binding interment book	4.00
500 note heads, blocked	2.50
Postals and printing	3.00
50 blank bills with stub	2.00
Other printing	5.00

Paid John B. Clarke Co., printing 200-
page blank book

6.25

John B. Clarke Co., advertising
water bills, 4 lines, 3 times

2.40

Temple & Farrington Co., ink,
paper, penholder, pencils, etc.

4.76

Temple & Farrington Co., other
stationery

3.87

 \$37.78

REPAIRS AND IMPROVEMENTS.

Paid Bartlett, Gay & Young, 3 1/2-wash
hydrants

\$15.75

Bartlett, Gay & Young, 2 No. 18
grates

10.67

John T. Beach, carriage repairs

19.65

S. C. Forsaith Machine Co., 300
stakes and trucking

5.75

S. C. Forsaith Machine Co., 216
hours' labor on fence

86.40

John T. Gott, cleaning one vault

4.00

Paid C. H. Hutchinson, repairs on fence :

57 lbs. iron at 3c.

1.71

8 lbs. babbitt

2.00

38 1/4 hours' labor

15.30

Repairs on lawn mower

.70

Paid Thomas A. Lane :

412 1/3 feet 3-inch T. pipe

87.83

6 3 x 1 T. cross	\$12.78
12 3 x 1 tees	17.16
1 3 x 1 cross	2.13
2 3-inch plugs	1.00
Trucking and freight	3.74
Materials and labor	13.34
Paid James Morrison, sharpening and re- pairing picks	2.10
L. M. Aldrich, filing 2 saws . . . . .	.40
Pike & Heald, damper, mica, col- lar, etc., for stove	10.10
Pike & Heald, plumbing materials and labor	96.88
B. A. Stearns, cash paid F. L. Wal- lace & Co., for one casket bar	2.25
Paid John B. Varick Co. :	
2 lawn mowers	6.00
650 lbs. barbless wire	22.75
300 feet $\frac{1}{2}$ -inch hose	22.50
100 feet $\frac{3}{4}$ -inch hose	9.00
2 brass padlocks	1.50
2 dump wheelbarrows	4.50
2 steel scythes	1.35
Other hardware	19.62
Paid Head & Dowst Co., 140 chestnut posts	21.00
Head & Dowst Co., 1,636 ft. spruce joists	26.18
Estate Charles H. Robie, 1117.2 sq. yards concrete	726.18
J. J. Abbott, paint and labor	9.61
sewers and drains, District No. 2, 1 grate	1.94
sewers and drains, District No. 2, 500 brick at 69c. per hundred	3.45
sewers and drains, District No. 2, barrel cement	1.38
	<hr/>
	\$1,288.60

SUNDRIES.

Paid B. A. Stearns, cash paid for cleaning house	\$3.80	
Whitten & Fifield, use of teams by committee	53.50	
John Driscoll, water filter	1.50	
John Driscoll, 6 large sprinklers	4.50	
		<u>\$63.30</u>
Total expenditures		\$7,361.26

Valley Cemetery.

Appropriation	\$3,000.00
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EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls :

January	\$72.31	
February	81.36	
March	66.34	
April	141.73	
May	199.00	
June	275.50	
July	215.13	
August	257.49	
September	180.54	
October	150.80	
November	158.85	
December	59.75	
		<u>\$1,858.80</u>
Paid B. F. Bascomb, $13\frac{3}{4}$ days' labor of team	\$51.00	
F. M. Barnard, 4 days' labor of team	16.00	

Paid Patrick Kane, labor	\$5.00	
Joseph Brown, team 69½ hours	27.80	
F. X. Chenette, team	4.00	
	<hr/>	\$103.80

WATER.

Paid Water-Works, use of water	\$45.45
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TURF, LOAM, PLANTS, ETC.

Paid Joseph Brown, 98 loads loam	\$126.60	
J. Francis, plants	56.82	
H. H. Huntress, wintering plants	3.00	
M. Haley, 28 loads loam	28.00	
Michael Murray, 3 cords manure	15.00	
Manchester Slaughtering & Rendering Co., 600 lbs. fertilizer	6.00	
J. W. Rand, 5,560 lbs. wood ashes	30.58	
Ray Brook Garden, plants	62.23	
John B. Varick Co., grass seed, etc.	21.95	
H. Vaughan, manure	5.00	
H. M. Whitney, 1 Japan snowball	1.25	
Peter O. Woodman, 26 loads loam	13.00	
Peter O. Woodman, 850 feet turf	10.25	
Peter O. Woodman, 7 loads loam	3.50	
B. F. Bascomb, 3 loads loam	3.90	
H. E. Babcock & Co., plants	2.00	
F. X. Chenette, 27 loads sand	5.13	
	<hr/>	\$394.21

PRINTING AND STATIONERY.

Paid Temple & Farrington Co., paper, pencils, mucilage, pens, and other stationery	\$1.10	
F. G. Riddle, printing blanks	3.25	
S. S. Piper, postmaster, 100 stamped envelopes	2.18	
	<hr/>	\$6.53

REPAIRS, TOOLS, AND IMPROVEMENTS.

Paid L. M. Aldrich, lumber, hardware, and labor	\$12.78
Paid F. S. Bodwell:	
Labor, 4 men, 4½ days	40.50
1 load stone	3.50
4½ days' use of derrick	3.37
10 stone steps	70.00
Paid J. Hodge, 14 ft. 2-inch sapling . . . . .	.35
J. Hodge, ¼ hour's labor . . . . .	.10
Thomas A. Lane, oval bowl, putty, 200 hose washers, and labor	5.10
Thomas A. Lane, 56 hose bands	2.24
Thomas A. Lane, plumbing mate- rials and labor	14.92
Manchester Hardware Co., 2 steel rakes . . . . .	.90
Manchester Hardware Co., 2 wood- en rakes . . . . .	.80
William Sutcliffe, sharpening and repairing picks . . . . .	.90
Paid John B. Varick Co. :	
Brooms, shovels, grass hooks, scythe stones, wire nails, and other hard- ware	13.84
150 feet rubber hose	13.50
1 lawn mower	6.00
Wedges and twine . . . . .	.67
Paid J. Brown, 3 loads stone	5.25
B. F. Bascomb, 5 loads stone	7.50
Paid S. C. Forsaith Machine Co. :	
221½ hours' labor	\$88.60
556 lbs. castings	19.46
124 lbs. iron	3.72
	<hr/>
	\$111.78
Less 2,100 lbs. old iron	10.50
	<hr/>
	101.28

2 2-inch pine boxes, 94 x 40 x 12	\$4.00	
Paid Jones & Co., painting fence as per contract	179.00	
Pike & Heald, plumbing materials and labor	84.86	
Palmer & Garmon, labor on Sewall Fogg's lot . . . . .	.45	
	<u> </u>	\$571.81

SUNDRIES.

Paid G. W. Dodge, 1 pair rubber boots	\$2.25	
Total expenditures	\$2,982.85	
Amount transferred to reserved fund	17.15	
	<u> </u>	\$3,000.00

Receiving Tomb.

Appropriation	\$350.00
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EXPENDITURES.

Paid Head & Dowst Co., materials and labor	\$290.22	
Frank S. Bodwell, 3 men, 3 hours, resetting steps	2.00	
Frank S. Bodwell, 1 load stone	3.00	
	<u> </u>	\$295.22
Total expenditures	\$295.22	
Amount transferred to reserved fund	54.78	
	<u> </u>	\$350.00

Derryfield Park.

Appropriation	\$500.00	
Amount transferred from reserved fund . . . . .	.05	
	<u> </u>	\$500.05

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per commons payroll:

July	\$66.00	
August	229.25	
September	111.00	
October	61.75	
November	1.00	
	<hr/>	\$469.00

BLACKSMITHING AND HARDWARE.

Paid Leander Pope, sharpening drills	\$1.55	
John B. Varick Co., 2 manure forks	1.50	
John B. Varick Co., axes, ax handle, saws, mattocks, stone wedges, shims, drill hammers and handles, dynamite and fuse, and other hardware	18.19	
L. M. Aldrich, spruce lumber, labor, etc.	3.81	
J. J. Abbott, painting and lettering 12 signs	6.00	
	<hr/>	\$31.05
Total expenditures		<hr/> \$500.05

East Manchester Cemetery.

Appropriation \$100.00

EXPENDITURES.

LABOR.

Paid George Drennells, 4 days' labor	\$6.00
H. C. Dickey, 6 days' labor	10.50

Paid Wm. Hardy, 3½ days' labor	\$5.25	
J. M. Hall, 6 days' labor	9.00	
Charles Palmer, 6 days' labor	9.00	
C. P. Still, 6 days' labor with team	24.00	
Chas. Shannessey, 2 days' labor	3.00	
Alvin G. Bean, 6 days' labor with team	22.00	
R. P. Stevens & Co., man and team one day	4.00	
R. P. Stevens & Co., 100 lbs. lead at 4½c.	4.50	
John B. Varick Co., 6 lbs. powder . . . . .	.90	
John B. Varick Co., 50 feet fuse . . . . .	.20	
John B. Varick Co., 1 mattock	1.00	
	<hr/>	\$99.35
Total expenditures		\$99.35
Amount transferred to reserved fund . . . . .		.65
		<hr/>
		\$100.00

Goffe's Falls Cemetery.

Appropriation	\$100.00
EXPENDITURES.	
Amount transferred to reserved fund	\$100.00

Amoskeag Cemetery.

Appropriation	\$100.00	
Amount transferred from reserved fund	78.09	
	<hr/>	\$178.09

EXPENDITURES.

LABOR.

Paid Jas. E. Bailey, 41 days' labor	\$73.64	
Jas. E. Bailey, labor of team, 3½ days	5.25	
Jas. E. Bailey, labor of A. McGaffney, 4 days	6.00	
	<u> </u>	\$84.89

WATER.

Paid Water-Works, use of water, season 1892		\$12.00
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SUNDRIES.

Paid James E. Bailey :		
40 loads gravel	\$2.00	
31 posts	4.65	
62 lbs. nails	2.17	
16 days' labor, self	28.00	
5 days' labor, Jos. Hamilton	7.50	
6½ days' labor, F. D. Heath	11.38	
3 days' labor, A. McGaffney	4.50	
Paid Head & Dowst Co., lumber for fence	21.00	
	<u> </u>	\$81.20
Total expenditures		<u>\$178.09</u>

Paupers off the Farm.

Appropriation	\$5,000.00	
Amount transferred from reserved fund	726.94	
	<u> </u>	\$5,726.94

EXPENDITURES.

GROCERIES.

Paid G. W. Adams	\$67.00
Bartlett & Thompson	85.00
John Cashman	87.85
Eager & Rand	65.00
H. I. Faucher	20.00
T. F. Fifield	245.00
Griffin Brothers	937.50
H. J. Holmes	10.66
O. D. Knox & Co.	66.00
George C. Lord	10.00
Lacourse & Laneville	57.92
McQuade Brothers	72.00
Thomas H. Mahoney	242.05
D. M. Poore	40.00
E. W. Perkins	46.00
Joseph Quirin	74.84
D. A. Shanahan	144.00
Henry Weber	247.35
S. M. Worthley	8.00
Carl E. York	57.00
	<hr/>
	\$2,583.17

FUEL.

Paid L. B. Bodwell & Co.	\$15.12
F. X. Chenette	16.80
DeCourcy, Holland & Marshall	45.00
Dunlap & Wason Coal Co.	46.51
S. L. Flanders	36.00
E. P. Johnson Co.	49.14
Charles Lessard . . . . .	.50
Moore & Preston	9.37
August Schink	18.30

PAUPERS OFF THE FARM.

621

Paid J. P. Russell & Co.	\$36.00
John Perham	3.00
W. E. Prescott	3.25

 \$278.99

BOARD AND CARE.

Paid J. S. Bodkins	\$21.00
Mrs. William Chase	40.00
Charles H. Giles	101.50
A. D. Hatch	120.00
Carrie E. Jackson	123.30
William Larkin	3.50
Charles Lowe	91.26
W. B. Linehan	3.00
H. P. Marshall	4.50
Christina Maycock	125.90
Mrs. Agnes Masse	96.00
N. H. Asylum for Insane	39.78
State Industrial school	1,171.08
Daniel Stevens	96.00
William H. Gilmore	29.31
St. Patrick's Orphan Home	70.00
town of Lebanon	164.21
John D. Welcome	20.00
county of Hillsborough	126.68
William Whelpley	52.00
Bridget McLane	18.00

 \$2,517.02

CLOTHING.

Paid James T. Donahoe	\$5.00
Dodge & Straw	4.45
Joseph Murray	10.65
M. A. McDonough	5.00
Michael F. O'Toole	1.50
E. F. Scheer	1.25
Weston & Martin	5.90

 \$33.75

MEDICINES, MEDICAL SERVICES, FUNERAL EXPENSES.

Paid Lewis K. Mead, prescriptions and medicines	\$79.15	
F. H. Thurston, medicines	50.83	
Dr. I. L. Carpenter, certificate of insanity, Florence Sullivan	3.00	
Paid Dr. Fred Perkins:		
Certificate of insanity, Lucius Colby	3.00	
Certificate of insanity, Florence Sullivan	3.00	
Certificate of insanity, Ludger Garvis	3.00	
Services in case of E. C. Miller	13.00	
Certificate of insanity	3.00	
Paid J. Frank Robinson, certificate of insanity, Lucius Colby		
Amos G. Straw, certificate of insanity, Ludger Garvis	3.00	
F. X. Chenette, funeral expenses of Rene Tousignant	10.00	
Paid Kean & Sheehan, funeral expenses:		
Child of George P. Hastings	15.00	
Joseph Cardinal	25.00	
Patrick Ford	25.00	
Mrs. Patrick Donnelly	40.00	
	<hr/>	\$278.98

SUNDRIES.

Paid John B. Clarke Co., printing 500 blanks	\$2.25
Temple & Farrington Co., 8 directories	16.00
Temple & Farrington Co., 1 almanac . . . . .	.08
Temple & Farrington Co., ink, rubber bands, etc.	1.10

CITY FARM.

623

Paid Whitten & Fifield, use of team to city farm	\$2.00	
B. F. Lake, expense conveying Ludger Garvis and Florence Sul- livan to insane asylum	12.10	
W. J. Freeman, hack to city farm	1.50	
	<u> </u>	\$35.03
Total expenditures		<u>\$5,726.94</u>

City Farm.

Appropriation	\$7,500.00	
Amount transferred from reserved fund	759.17	
	<u> </u>	\$8,259.17

EXPENDITURES.

HOUSE AND FARM LABOR.

Paid L. M. Streeter, superintendent	\$500.00
Mary E. Streeter, matron	300.00
Emma M. Streeter	134.36
Thomas Burke	146.25
Ann Cunningham	17.57
Jane Carpenter	2.15
F. W. Clark	23.00
Mrs. C. A. Goddard	27.65
Charles A. Goddard	40.98
Daniel Grant	142.20
Hannah Hackett	67.56
John Murray	4.00
J. T. Murphy	60.65
E. S. Merrill	12.86
Maria Nichols	16.29
James Powers	15.33
L. J. Proctor	350.55
Herbert Quimby	76.65

Paid Mrs. Herbert Quimby	\$49.29	
Fred Sanborn	242.60	
W. K. Stockdale	4.50	
Mrs. Charles Thompson	23.35	
Charles Thompson	43.65	
E. S. Young	3.00	
Mary Maloney	14.14	
Henry Swain	44.72	
Mary McGuire	17.36	
Mary Smith	3.00	
Nellie Pingree	17.50	
John McNally	7.99	
Mrs. D. B. Hutchins	7.00	
Rose Fisk	3.86	
Mary Eagan	6.00	
Annie Cook	1.50	
Kate Rogers	4.08	
Susan Taylor	9.00	
		<u>\$2,440.59</u>

FUEL.

Paid A. & D. M. Poore, 54,095 lbs. egg and broken coal	\$158.75	
A. & D. M. Poore, 2 barrels Cum- berland coal	2.00	
A. & D. M. Poore, 1 bbl. charcoal . .	.40	
Moore & Preston, 22,820 lbs. stove coal	79.83	
		<u>\$240.98</u>

CLOTHING AND DRY GOODS.

Paid George Blanchet, cotton, print, cambric, etc.	\$34.62
Barton & Co., print, flannel, crash, napkins, batting, cambric, etc. . .	161.83
Cushman & Hardy, jumpers, over- alls, suspenders, pants, hats, etc.	18.55

CITY FARM.

625

Paid Clark & Estey, hose, socks, under-vests, rubbers, fine combs, elastic, etc.	\$28.54	
G. W. Dodge, boots, shoes, and rubbers from Sept. 3 to Dec. 28, 1891, and from January to May 11, 1892	55.94	
Paid Fred. C. Dow :		
3 pairs gum boots	7.50	
1 pair strap shoes	1.00	
1 pair glove congress	1.25	
Other boots and shoes	9.50	
Paid James A. Folsom, pants and vests	6.50	
A. & W. S. Heath, 16 pairs shoes	16.40	
H. M. Moody, coats, vests, pants, hats, neckties, etc.	149.73	
Weston & Hill Co., print and bathing	3.76	
Wingate & Gould, boots and shoes	11.85	
	<hr/>	\$506.97

GROCERIES AND PROVISIONS.

Paid Bartlett & Thompson, beef, pork, etc.	\$48.43
Allen N. Clapp, 2 barrels kerosene oil, 100½ gallons, at 8½c.	8.54
Dodge & Laing, beans, beef, turkeys, etc.	96.38
A. G. Grenier, coffee, peas, etc.	66.11
Hardy & Co., coffee, tea, yeast, etc.	21.05
Geo. H. Hubbard, 171 lbs. tobacco	47.46
Daniel Johnson, 162 lbs. sausage	17.64
Daniel Johnson, 2 lbs. sage . . . . .	.50
W. D. Ladd & Co., 4 bbls. crackers	10.20
McQuade Brothers, 1 box tobacco, 34 lbs.	8.50

Faid McQuade Brothers, 55 lbs. tobacco	\$13.75	
McQuade Brothers, groceries	180.17	
Manchester Provision Co., 11 lbs. bologna . . . . .	.66	
Merrill & Freeman, 12 barrels Pills- bury's flour	68.10	
E. S. Newton, boneless cod and other fish	74.78	
New York Market, meats, etc.	73.42	
Henry W. Parker, 47 barrels Pills- bury's flour	267.50	
Henry W. Parker, 5 barrels Mill- wood flour	23.25	
Henry W. Parker, 3 barrels St. Louis flour	13.00	
Public Market, meats and other provisions	220.87	
Jos. Quirin, 91½ lbs. tobacco	22.98	
Jos. Quirin, molasses and other gro- ceries	261.04	
H. N. Robbins, soap and horse- radish	1.30	
C. W. Stevens, 206 lbs. tea	43.00	
S. M. Swett, groceries	12.54	
J. H. Wiggin & Co., groceries	28.45	
Carl E. York, groceries	69.72	
Clarence R. Merrill, 8 barrels Pills- bury's flour	40.00	
	<hr/>	\$1,739.34

FURNITURE AND COOKING UTENSILS.

Paid Clark M. Bailey, 24 70-quart milk- pans	\$3.50
Clark M. Bailey, 3 milk-pans	2.00
Clark M. Bailey, drip-pan, knife, tray, brooms, etc.	16.94

CITY FARM.

627

Paid Wm. H. Elliott, 1 piano box	\$2.00	
“The Kitchen,” 6 lamps, 2 caddies, sieves, scoops, stone jar, etc.	13.42	
R. McQuarry, 1 6-gallon jar	1.00	
Manchester Heating & Lighting Co., 1 short center No. 10 Palace R. . . . .	.85	
Manchester Heating and Lighting Co., 2 grates for range	3.00	
F. E. Nelson, dippers, strainers, pie-plates, coffee pots, nappies, chimneys, dishes, etc.	75.71	
Darwin A. Simons, 12 chairs	8.50	
Darwin A. Simons, 12 chairs	7.80	
Darwin A. Simons, rent on chairs and crockery	1.72	
C. A. Trefethen, 1 alarm clock	1.00	
G. R. Vance, 2 5-gallon cream pails	2.00	
G. R. Vance, 1 strainer	1.00	
D. B. Varney, copper boiler	18.70	
L. M. Streeter, 2 bedsteads, commode, set of springs	6.00	
Pike & Heald, coal hod. sad irons, etc.	5.38	
	<hr/>	\$170.52

MEDICAL SERVICES AND MEDICINE.

Paid I. L. Carpenter, M. D., consultation on L. Colby as to insanity	\$3.00	
L. K. Mead, medicines	6.05	
W. F. Childs, services as dentist from March 12, 1891, to April 7, 1892	3.25	
Z. F. Campbell, medicines	3.05	
A. J. Rotchford, hoof ointment	1.70	
	<hr/>	\$67.05

FERTILIZERS, SEEDS, ETC.

Paid Mrs. J. Ahern, 33 $\frac{1}{4}$ ft. manure	\$16.62	
Thomas Frain, 1 $\frac{1}{3}$ cords manure	4.00	
James J. H. Gregory, garden seeds	9.95	
E. T. James, 12 cords, 73 feet, manure	50.28	
Merrill & Freeman, 2,000 lbs. Reese fertilizer	33.00	
Merrill & Freeman, 25 bushels seed oats	11.88	
S. B. Putnam, 3 loads manure	5.00	
H. E. Vaughan, 5 36-128 cords of manure	18.48	
John B. Varick Co., 104 lbs. timothy seed	4.42	
J. J. Sullivan, 2 loads manure	3.00	
	<hr/>	\$156.63

HARDWARE.

Paid Killey & Wadleigh, hone, screwdriver, four rim locks, tacks, cattle cards, sponges, currycombs, and other hardware	\$12.35	
Manchester Hardware Co., harrow	25.00	
Manchester Hardware Co., hardware	77.56	
John B. Varick Co., 1 creamer	48.00	
John B. Varick Co., 2 butterworkers . . . . .	.24	
John B. Varick Co., wire nails, fuse, locks, knobs, and other hardware	10.84	
Wadleigh Hardware Co., 6 scythe stones, casting, and other hardware	56.65	
	<hr/>	\$230.64

HAY, GRAIN, AND OTHER FEED.

Paid Adams & Tasker, bran, oats, wheat, etc.	\$115.61	
McDougall Brothers, threshing 168 bushels oats at 6c.	10.08	
Merrill & Freeman, bran, mid- dlings, salt	21.30	
Merrill & Freeman, oats and grind- ing corn	364.32	
Pettee & Adams, grinding	8.79	
Clarence R. Merrill, bran, etc.	97.33	
	<u> </u>	\$617.43

REPAIRS AND IMPROVEMENTS.

Paid James R. Carr & Co., paints, oil, etc.	\$36.80	
James R. Carr & Co., 20 days' labor	45.00	
D. E. Guiney, repairs on steam pipe and packing 20 steam valves	4.25	
Paid Head & Dowst Co. :		
700 chimney brick	4.55	
200 feet 12-inch spruce boards	3.20	
Repairing pump	1.50	
444 feet spruce	7.10	
100 feet barn boards	2.30	
716 feet hemlock boards	10.02	
214 feet spruce	6.17	
1,000 cedar shingles	31.76	
56 feet drag plank	2.24	
Paid Peter Harris, making six keys	1.00	
Paid C. H. Hutchinson, iron and lum- ber . . . . .	.17	
26 $\frac{1}{4}$ hours' labor on windmill, repair- ing shackles	10.50	

Boiler repairs	\$7.15	
Labor and material making scrapers .	3.34	
Paid Kimball Carriage Co., repairs on sleigh	43.50	
Thomas A. Lane, labor and material for pump	205.59	
Mahurin Lightning-Rod Co., labor and rods	64.50	
Manchester Locomotive Works, 45 lbs. steel plate	1.80	
L. M. Aldrich, 5 hours' labor	1.25	
Pike & Heald, repairing windmill pump	6.92	
Pike & Heald, materials and labor on various things	13.86	
R. M. Rollins & Son, knives, Pitman rod, box tedder forks, etc., for machine	16.55	
Smith & Winchester, 128 ft. 6 in. artesian well	1,024.00	
J. H. Wales, 1 $\frac{3}{4}$ days' mason work	6.13	
J. H. Wales, cement . . . . .	.15	
L. N. Westover, 10 $\frac{3}{4}$ hours labor	4.30	
L. N. Westover, 11 feet white oak . . . . .	.66	
L. N. Westover, 6 maple table legs	1.20	
Adams & Tasker, 1 cask lime . . . . .	.95	
J. J. Abbott, $\frac{1}{2}$ gallon varnish	1.50	
J. J. Abbott, cherry stain . . . . .	.50	
E. Gatz, 7 $\frac{1}{4}$ hours' work	2.90	
E. Gatz, 4 feet pine . . . . .	.10	
J. B. McCrillis & Son, repairing wagons, etc.	47.86	
Peter Harris, keys . . . . .	.30	
	<hr/>	\$1,621.57

BLACKSMITHING, HARNESSES, ETC.

Paid Amos Dow, shoeing horses	\$8.65
J. O. Tremblay, shoeing horses	83.00

Paid F. N. McLaren, repairing harnesses, etc.	\$1.00	
Hill, Spaulding & Co., lap robe, etc.	4.15	
N. J. Whalen, whips, chamois, axle grease, etc.	25.90	
Thomas P. Riley, robe, brush, etc.	9.75	
	<hr/>	\$132.45

INSURANCE.

Paid John Dowst, agent, insurance on city farm buildings, in the Cap- itol Fire Insurance Co., policy 18,856	\$20.00	
C. M. Edgerly, insurance in the Peoples Fire Insurance Co., pol- icy No. 100,943	40.00	
A. Elliott & Co., insurance in the Granite State Insurance Co., pol- icy No. 43,316	40.00	
A. Elliott & Co., insurance in the Northern Insurance Co., policy No. 10,124	40.00	
E. P. Richardson, agent, insurance in the N. H. Fire Insurance Co.	60.00	
	<hr/>	\$200.00

TELEPHONE AND STATIONERY.

Paid New England Telegraph & Tele- phone Co., use of telephones .	\$42.00	
Temple & Farrington Co., blank books, paper, mucilage, etc. .	12.25	
J. O. Burbank, printing postals, bill-heads	6.00	
Nate Kellogg, 100 postals . . .	1.00	
Nate Kellogg, printing and sta- tionery	5.00	
	<hr/>	\$66.25

SUNDRIES.

Paid Clark M. Bailey, 2 dozen brooms .	\$7.50	
J. Hayes & Co., 14 barrels . . .	14.25	
J. Hayes & Co., 1 half-barrel . . .	1.50	
“New England Homestead,” from March 1, 1892, to March 1, 1893 . . .	1.50	
L. M. Streeter, postoffice box rent, quarter ending March 1, 1892 . . .	.75	
L. M. Streeter, expenses to Groton and Wentworth, after help . . .	6.50	
Union Publishing Co., “Daily Union ” to Jan. 1, 1892 . . .	6.00	
Union Publishing Co., advertis- ing wants	1.75	
E. C. Tilton, cutting ice	7.50	
Charles C. Chase, castrating pigs . . .	3.00	
Samuel Richardson, grinding 395 bushels of apples	18.50	
	<hr/>	\$68.75
Total expenditures		\$8,259.17

Indigent Soldiers.

Appropriation	\$1,000.00
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EXPENDITURES.

GROCERIES.

Paid G. W. Adams	\$38.00	
A. M. Eastman	10.01	
Griffin Brothers	20.00	
George C. Lord	6.00	
E. W. Perkins	16.00	
Thomas H. Mahoney	12.00	
Eager & Rand	6.00	
O. D. Knox & Co.	16.00	
	<hr/>	\$124.01

FREE BEDS, ELLIOT HOSPITAL.

633

FUEL.

Paid Decourcy & Holland	\$2.00	
Moore & Preston	3.75	
J. Masse	7.50	
	<u> </u>	\$13.25

BOARD AND CARE.

Paid Bridget Milene	\$68.00	
Mary McCook	38.00	
John Flynn	10.00	
	<u> </u>	\$116.00

MEDICINES.

Paid L. K. Mead	\$6.70	
F. H. Thurston	1.50	
	<u> </u>	\$8.20

Total expenditures		\$261.46
Amount transferred to reserved fund		738.54
		<u> </u>
		\$1,000.00

Women's Aid and Relief Hospital.

Appropriation	\$500.00
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EXPENDITURES.

Paid Women's Aid and Relief Hospital	\$500.00
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Free Beds, Elliot Hospital.

Appropriation	\$600.00	
Amount transferred from reserved fund	300.00	
	<u> </u>	\$900.00

EXPENDITURES.

Paid Elliot Hospital, amount for 3 free beds	\$900.00
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Decoration of Soldiers' Graves.

Appropriation	\$300.00
Transferred from reserved fund	21.75
	\$321.75

\$321.75

EXPENDITURES.

Paid to A. D. Scovell, commander of Louis Bell Post No. 3, G. A. R., bills paid sundry persons for expenditures incurred on Memorial Day, May 30, 1891:

PRINTING.

Paid Press Printing and Publishing Co., 50 general orders	\$0.75
John B. Clarke Co., 100 half-note circulars	1.00
John B. Clarke Co., 420 postals	1.75
John B. Clarke Co., 1,000 programs	4.00
Temple & Farrington Co., 50 blanks . . . . .	.87
	\$8.37

\$8.37

CARRIAGE HIRE.

Paid C. H. Simpson, use of hack	\$4.00
E. T. James, use of landau	4.00
G. W. Reed, use of hack	4.00
Felch's stable, use of hack	4.00
E. V. Turcotte, use of hack and barge	9.00
A. L. Jenness & Son, use of carry- all	1.50
A. L. Jenness & Son, use of landau	4.00
J. C. Nichols & Son, use of hack	4.00
Whitten & Fifield, use of hack	4.00
F. X. Chenette, use of hack	4.00
W. J. Freeman, use of hack	4.00
Geo. E. Wheeler, use of barouche	4.00
George E. Wheeler, use of carryall and driver	3.00

Paid C. C. Webster, use of barge . . .	\$5.50	
J. W. Truell, use of hack . . .	4.00	
	<u> </u>	\$63.00

MUSIC AND SINGING.

Paid West Manchester Drum Corps . . .	\$10.00	
Manchester Drum Corps . . .	10.00	
Manchester Military (First Regiment) band	75.00	
Apollo Club	10.00	
	<u> </u>	\$105.00

SUNDRIES.

Paid Palmer & Garmon, 50 stone markers	\$22.50	
John B. Varick Co., 4 hammers and tacks . . . . .	.72	
First N. H. Battery, powder, etc.	10.25	
J. H. Wiggin & Co., 7 doz. lemons, 10 lbs. sugar	2.25	
Jas. W. Wilson, flowers and plants	1.60	
E. R. Coburn & Co., 1 flag	3.25	
Hartley E. Vaughan, labor and teams	12.10	
J. Shine, for team	1.00	
D. H. Morgan, use of team to get flowers	4.00	
Clark Waters, services	2.00	
A. D. Scovell, use of team	2.00	
A. D. Scovell, postal cards and sundries	5.70	
Louis Bell Post No. 3, 543 flags	54.30	
Head & Dowst Co., labor and lumber, stand on common	23.71	
	<u> </u>	\$145.38
Total expenditures		<u>\$321.75</u>

Militia.

Appropriation	\$900.00
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EXPENDITURES.

Paid the following parties for maintenance of armories from Feb. 12, 1892, to Feb. 12, 1893:

Amoskeag Veterans	\$100.00	
City Guards	100.00	
First Regiment, N. H. N. G. (band)	100.00	
First Regiment Headquarters, N. H. N. G.	100.00	
Lafayette Guards	100.00	
Manchester Cadets	100.00	
Manchester War Veterans	100.00	
Sheridan Guards	100.00	
Upton Light Infantry	100.00	
		<u>\$900.00</u>
Total expenditures		\$900.00

Abatement of Taxes.

Appropriation	\$3,000.00	
Balance from old account	442.76	
		<u>\$3,442.76</u>

EXPENDITURES.

Paid sundry persons on taxes abated	\$2,794.53	
Balance transferred to new account	648.23	
		<u>\$3,442.76</u>

APPROPRIATIONS.

637

State Tax.

Appropriation \$65,615.00

EXPENDITURES.

Paid Solon A. Carter, state treasurer \$65,615.00

County Tax.

Appropriation \$61,076.55

EXPENDITURES.

Paid Edwin F. Jones, county treasurer \$61,076.55

Resolution Raising Money and Making Appropriations for the Year 1892.

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 and ninety-eight thousand five hundred and ninety-one and fifty-five hundredths dollars (\$498,591.55) be raised for the use of the city for the year 1892 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	\$51,500.00
Reserved fund	20,000.00
Temporary loan	30,000.00
City hall	2,100.00

Printing and stationery	\$2,200.00
Incidental expenses	15,000.00
Mayor's incidentals	300.00
City officers' salaries	15,700.00
City auditor's department	2,000.00

STREET AND SEWER DEPARTMENT.

Highway District No. 1	\$300.00
“ “ Nos. 2 and 3	12,000.00
“ “ No. 4	500.00
“ “ “ 5	800.00
“ “ “ 6	500.00
“ “ “ 7	1,500.00
“ “ “ 8	1,000.00
“ “ “ 9	500.00
“ “ “ 10	4,000.00
“ “ “ 11	1,000.00
“ “ “ 12	300.00
“ “ “ 13	200.00
New highways	10,000.00
Land taken for highways	9,000.00
Watering streets	3,000.00
Paving	5,500.00
Macadamizing	18,000.00
Grading for concrete	5,000.00
Scavenger teams	11,000.00
Street sweeping	1,200.00
Lighting streets	40,000.00
Bridges	2,500.00
City teams	5,000.00
Sewers and drains	30,000.00
Second-street bridge	6,000.00
ENGINEER'S DEPARTMENT	4,000.00
HEALTH DEPARTMENT	2,500.00

APPROPRIATIONS.

639

SCHOOL DEPARTMENT.

Repairs of schoolhouses	\$5,000.00
Fuel	4,500.00
Furniture and supplies	800.00
Books and stationery	300.00
Printing and advertising	400.00
Contingent expenses	1,200.00
Care of rooms	4,000.00
Evening schools	1,200.00
Teachers' salaries	56,000.00
Evening school, mechanical drawing	600.00
Free text-books and supplies	3,500.00
CITY LIBRARY	3,800.00

FIRE.

Fire department	\$39,000.00
Fire-alarm telegraph	1,400.00
Firemen's parade	500.00

POLICE.

Police department	\$37,300.00
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PUBLIC BUILDINGS.

Repairs of buildings	\$2,500.00
New schoolhouse, Hallsville	8,000.00
Engine-house and ward room No. 9	10,000.00

WATER-WORKS.

Construction	\$25,000.00
Repairs	22,000.00
Current expenses	5,000.00

PUBLIC PLACES.

Commons	\$3,000.00
Stark park	1,500.00
Derryfield park	500.00
Pine Grove cemetery	6,600.00

Valley cemetery	\$3,000.00
East Manchester cemetery	100.00
Goffe's Falls cemetery	100.00
Amoskeag cemetery	100.00
Receiving tomb, Valley cemetery	350.00

PATRIOTIC, CHARITABLE, AND PHILANTHROPIC.

Paupers off the farm	\$5,000.00
City farm	7,500.00
Indigent soldiers	1,000.00
Women's Aid and Relief Hospital	500.00
Free beds, Elliot Hospital	600.00
Decoration of soldiers' graves	300.00
Militia	900.00

TAXES.

Abatement of taxes	\$3,000.00
State taxes	65,615.00
County tax	61,076.55
	<hr/>
	\$706,941.55

ESTIMATED RECEIPTS FOR THE YEAR 1892.

Amount to be raised by tax	\$498,591.55
Insurance tax	3,800.00
Railroad tax	21,500.00
Savings bank tax	74,000.00
Literary fund	4,500.00
Water-Works	85,000.00
City hall	2,500.00
Tuition	400.00
Police department	7,500.00
Pine Grove cemetery	4,400.00
Valley cemetery	1,100.00
County of Hillsborough	1,600.00
City farm	1,700.00
Interest on taxes	350.00
	<hr/>
	\$706,941.55

Passed March 1, 1892.

APPROPRIATIONS.

TABULAR STATEMENT OF TAXATION BY BOARD OF ASSESSORS APRIL 1, 1890, 1891, AND 1892.

Resident and non-resident.	Polls.		Dogs.		Real estate, value.	Stock in Trade.	Money on hand, at interest, or on deposit.	Horses, asses, and mules, over 18 months old.		Carriages, value.	Cows, oxen, and other neat stock over 18 months old.	
	No.	Value.	Male	Female.				Tax.	No.		Value.	No.	Value.
1890.....	9,723	\$973,300.00	710	51	\$812.00	\$2,351,102.00	\$378,226.00	1,737	\$172,186.00	\$50,400.00	717	\$15,470.00
1891.....	10,367	1,036,700.00	713	49	811.00	2,332,752.00	382,626.00	2,151	185,806.00	53,496.00	671	12,944.00
1892.....	10,673	1,067,300.00	700	43	786.00	2,355,780.00	375,634.00	2,235	200,482.00	53,590.00	616	12,580.00

Hogs.	Sheep over 6 months old.		Fowls.		Stock in banks and other corporations.		Stock in public funds and bonds.		Factories and their machinery.		Total value.	Rate of tax per hundred.	Tax levied.	Total, including dog tax.
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.				
101	\$1,010.00	17	\$46.00	.....	\$280,500.00	13,900.00	\$6,068,150.00	\$24,297,740.00	.....	.....	\$	1.21	\$462,057.17	\$462,769.00
115	932.00	12	30.00	.....	290,100.00	13,900.00	6,432,576.00	24,872,492.00	.....	.....	\$	1.75	112,730.76	443,541.76
85	572.00	14	42.00	.....	\$226.00	1,100.00	6,643,000.00	25,332,044.00	.....	.....	\$	1.35	365,673.17	506,465.17

*Tax on the Manchester Building Association, \$34,500 at 1 per cent. See Laws of 1889, chapter 12.

Assessors' Oath.

We, the Assessors of the City of Manchester, do solemnly swear that in making the invoice for the purpose of assessing the foregoing taxes, we appraised all taxable property at its full value, and as we would appraise the same in payment of a just debt due from a solvent debtor. *So help us God.*

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 1892, was as follows :

	Valuation.	Rate per \$1,000.	Tax.
Real estate	\$21,559,978	\$19.50	\$420,419.57
Personal property	3,304,766	19.50	64,442.94
Overlay . . . . .	. . . . .	. . . . .	4.31
	<u>\$24,864,744</u>		<u>\$484,866.82</u>
No. of polls, 10,673	1,067,300	19.50	20,812.35
	<u>\$25,932,044</u>		<u>\$505,679.17</u>
Totals			
Special tax on 700 male dogs, at \$1			700.00
Special tax on 43 female dogs, at \$2			86.00
			<u>\$506,465.17</u>
Total			\$506,465.17

The share distributed to Manchester of the amount of the tax assessed, as per returns made by the corporations to state treasurer :

On railroads	\$25,849.65
On savings banks	78,101.94
On insurance companies	4,199.25
On literary fund	6,010.88
	<u>\$620,626.89</u>
Grand tax total	\$620,626.89

Appropriated and assessed in 1892, for city appropriation	\$475,700.00
Appropriated and assessed in 1892, for state tax	65,615.00
Appropriated and assessed in 1892, for county tax	61,076.55
Overlay *	18,235.34
Grand tax total	<u>\$620,626.89</u>

For further information in relation to taxes collected by the state, see State Treasurer's Report.

TABLE OF TAXES DUE AND UNCOLLECTED.

YEAR.	Due June 1, 1892; assessed in 1892.	Dis-counts and abatements, 1892.	Collected in 1892.	Due December 31, 1892.
Taxes of 1885.....	\$1,206.50		80.79	\$1,205.71
Taxes of 1886.....	1,264.85			1,264.85
Taxes of 1887.....	1,165.64		1.70	1,163.94
Taxes of 1888.....	1,586.53		3.90	1,582.63
Taxes of 1889.....	1,412.58		9.85	1,402.73
Taxes of 1890.....	1,817.71		98.31	1,719.40
Taxes of 1891.....	24,385.47	\$1,889.31	20,694.60	2,236.83
Taxes of 1891.....	435.27			
Taxes of 1892.....	506,465.17	1,023.38	473,302.14	32,139.65
Totals.....	\$539,739.72	\$2,912.69	\$494,111.29	\$42,715.74

*This overlay consists of \$786, special dog tax; \$7,087.62, assessed by the local assessors under the provisions of General Laws, chapter 57, section 4; and the sum of \$10,361.72, in the amount received from railroads, banks, insurance companies, and literary fund above the amount estimated by the city councils.

TAX VALUATIONS, ETC., FROM 1890 TO 1892, INCLUSIVE.

Year.	Valuation.	Taxes.	No. polls.	Poll tax.	Val. of poll
1890.....	\$24,207,740	\$462,869.17	9,723	\$1.91	100
1891.....	24,872,492	443,541.76	10,367	1.78	100
1892.....	25,932,044	506,465.17	10,673	1.95	100

For years prior to 1890, see reports of 1890 and 1891.

Settlement of the Account of George E. Morrill, Tax Collector for City of Manchester, N. H., June 1, 1892.

	Amount out- standing, June 1, 1891.	Collected.	Balance out- standing, June 1, 1892.
Tax list, 1885	\$1,206.50	\$0.79	\$1,205.71
1886	1,264.85		1,264.85
1887	1,165.64	1.70	1,163.94
1888	1,586.53	3.90	1,582.63
1889	1,412.58	9.85	1,402.73
1890	1,817.71	98.31	1,719.40
		<u>\$114.55</u>	
June 3, 1892, credited by receipt of treasurer, No. 72		114.55	
		<u>\$114.55</u>	
Interest collected, 1885		\$1.51	
1886			
1887 . . . . .		.60	
1888		1.27	
1889		1.46	
1890		10.52	
1891		498.77	
		<u>\$514.13</u>	

ACCOUNT OF GEORGE E. MORRILL, COLLECTOR. 645

June 3, 1892, by receipt of treasurer, No. 71	\$510.03	
July 7, 1892, by receipt of treasurer, No. 97	4.10	
		<u>\$514.13</u>

1891. To resident list, including		
dog tax	\$442,252.77	
non-resident list	1,288.99	
voluntary taxes	435.27	
	<u> </u>	\$443,977.03

CR.

1891. By cash paid city treasurer, per receipts	\$393,249.72	
cash paid as per county treasurer's receipts	46,032.47	
abatements	2,458.01	
unpaid taxes, June 1, 1892	2,236.83	
	<u> </u>	\$443,977.03

CITY OF MANCHESTER TO GEORGE E. MORRILL.

DR.

To salary for the year ending June 1, 1892	\$1,650.00	
commission on old taxes	6.53	
	<u> </u>	\$1,656.53

CR.

By cash paid by treasurer, on account salary	\$800.00	
balance paid by treasurer, as per bill	856.53	
	<u> </u>	\$1,656.53

MANCHESTER, N. H., July 7, 1892.

I hereby certify that I have examined the account of George E. Morrill, tax collector of said Manchester, and find the same correct, as above stated.

JAMES B. STRAW,
City Auditor.

Some Laws and Decisions Relating to Exemptions from Taxation.

CONSTITUTION OF NEW HAMPSHIRE; ARTICLE 82, PAGE 38,
PUBLIC STATUTES.

ENCOURAGEMENT OF LITERATURE, ETC.

ARTICLE 82. "Knowledge and learning generally diffused through a community being essential to the preservation of a free government, and spreading the opportunities and advantages of education through the various parts of the country being highly conducive to promote this end, it shall be the duty of the legislators and magistrates, in all future periods of this government, to cherish the interest of literature and the sciences, and all seminaries and public schools; to encourage private and public institutions, rewards, and immunities for the promotion of agriculture, arts, sciences, commerce, trades, manufactures, and natural history of the country; to countenance and inculcate the principles of humanity and general benevolence, public and private charity, industry and economy, honesty and punctuality, sincerity, sobriety, and all social affections and generous sentiments among the people; *provided, nevertheless*, that no money raised by taxation shall ever be granted or applied for the use of the schools or institutions of any religious sect or denomination."

PUBLIC STATUTES, CHAPTER 55, SECTION 2.

SECTION 2: "Real estate, whether improved or unimproved, and whether owned by residents or others, is liable to be

taxed, except houses of public worship, twenty-five hundred dollars of the value of parsonages owned by religious societies and occupied by their pastors, schoolhouses, seminaries of learning, real estate of the United States, state, or town used for public purposes, and almshouses on county farms."

SECTION II. "Towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed to be erected or put in operation therein, and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some town."

OPINION OF THE SUPREME COURT.

58 N. H. Rep. page 623. "The exemption in each case is limited to ten years. A perpetual alienation of the whole power of taxation would be the destruction of government: and the dangerous tendency of legislation suspending any part of that power, for any period, is manifest. *P. Bank v. Billings*, 4 Pet. 514, 561. So long as the existing laws remain unrepealed, and the constitutional construction heretofore adopted remains unchanged, contracts hereafter made under those laws and that construction will be valid. If the legislature for any reason wish to prevent the making of any more such contracts, their object can be accomplished by a repeal of the laws authorizing them."

Hospitals, etc., are exempt from taxation in their respective charters as "being of the nature of a public charity," as follows:

Gale Home for Aged and Destitute Women, N. H. Laws of 1889, chapter 199.

Elliot Hospital, N. H. Laws of 1881, chapter 178.

Manchester Women's Aid and Relief Society, organized in January, 1875; N. H. Laws, 1891, chapter 283.

Orphanage and Home for Old Ladies (Catholic) on Hanover street, N. H. Laws, 1883, chapter 56.

Schedule of Property used for Religious, Charitable and Educational Purposes, and Exempt from Taxation by Law, not including that Owned by the City of Manchester.

98. Convent, Sisters Jesus Mary, French Catholic ; East Spruce street, near Beech .			
Building	\$10,000.00		
13,000 square feet of land	2,600.00		
		—————	\$12,600.00
108. Convent, Sisters of Mercy, Catholic ; 415 Un- ion street, corner Laurel :			
Building	\$30,000.00		
12,600 square feet of land	6,300.00		
		—————	\$36,300.00
96. Mount St. Mary's Academy, Catholic ; from convent lot east to Beech street :			
Building	\$25,000.00		
31,500 square feet of land	9,450.00		
		—————	\$34,450.00
Lot south side Laurel street, corner Union street, un- occupied, Catholic :			
10,800 square feet of land	\$5,400.00		Taxable.
107. Hospital of the Sacred Heart and Old Ladies' Home, Catholic ; Amherst and Hanover streets :			
Building	\$8,000.00		
40,500 square feet of land	30,375.00		
		—————	\$38,375.00
106. St. Patrick's Orphan Asylums, Catholic ; 184 Hanover street :			
Building	\$35,000.00		
40,500 square feet of land	40,500.00		
		—————	\$75,500.00

105. St. Joseph's High School, Catholic ; Lowell street, corner of Birch :		
Building	\$12,000.00	
8,000 square feet of land	8,000.00	
	<u> </u>	\$20,000.00
15. Lake avenue school, Catholic ; Lake avenue. near Elm street :		
Building	\$2,800.00	
10,500 square feet of land	15,750.00	
	<u> </u>	\$18,550.00
97. Union-street school, Catholic ; corner Union and Laurel streets :		
Building	\$4,000.00	
5,000 square feet of land	2,500.00	
	<u> </u>	\$6,500.00
109. St. Agnes' school, Catholic ; corner Cedar and Pine streets :		
Building	\$12,000.00	
20,000 square feet of land	3,200.00	
	<u> </u>	\$15,200.00
103. St. Joseph's school for girls, Catholic ; corner Pine and Lowell streets :		
Building	\$10,000.00	
Land included in cathedral lot	<u> </u>	\$10,000.00
99. Convent of the Holy Angels, French Catholic ; Beauport street, corner Wayne, West Manchester :		
Building	\$15,000.00	
22,500 square feet of land	4,500.00	
	<u> </u>	\$19,500.00
Open square bounded by Beauport, Wayne, and Putnam streets ; French Catholic :		
90,500 square feet of land	\$18,100.00	Taxable.
100. St. Augustine's academy, French Catholic ; corner Beech and Spruce streets :		
Building	\$8,000.00	
15,000 square feet of land	4,500.00	
	<u> </u>	\$12,500.00

101. St. Mary's parochial school, French Catholic ; corner Wayne and Cartier streets :		
Building	\$12,000.00	
25,000 square feet of land	2,000.00	
	<u> </u>	\$14,000.00
114. Residence priest St. Augustine's church, French Catholic ; No. 383 Beech street :		
Building	\$6,000.00	
7,500 square feet of land	1,875.00	
	<u> </u>	\$7,875.00
		\$2,500.00
113. Residence priest St. Anne's church, Catholic ; No. 231 Merrimack street :		
Building	\$5,000.00	
8,820 square feet of land	2,646.00	
	<u> </u>	\$7,646.00
		\$2,500.00
111. Residence Catholic bishop ; No. 145 Lowell street :		
Building	\$40,000.00	
24,000 square feet of land	12,000.00	
	<u> </u>	\$52,000.00
		\$2,500.00
115. Residence priest St. George's church, French Catholic ; Orange street, corner Pine :		
Building	\$2,500.00	
10,000 square feet of land	4,000.00	
	<u> </u>	\$6,500.00
		\$2,500.00
112. Residence priest St. Mary's church, French Catholic ; 376 Beauport street, West Manchester :		
Building	\$2,500.00	
5,000 square feet of land	1,000.00	
	<u> </u>	\$3,500.00
		\$2,500.00

92. St. Anne's church, Catholic ; Union street, corner Merrimack :

Building	\$30,000.00	
10,180 square feet of land	5,090.00	
	<u> </u>	\$35,090.00

110. St. Augustine's church, French Catholic ; Beech street, corner East Spruce :

Building	\$28,000.00	
13,000 square feet of land	3,250.00	
	<u> </u>	\$31,250.00

91. St. Joseph's cathedral and chapel, Catholic ; Pine street, corner Lowell :

Building	\$70,000.00	
40,000 square feet of land	30,375.00	
	<u> </u>	\$100,375.00

93. St. Mary's church, French Catholic ; Beauport street, corner Wayne, West Manchester :

Building	\$25,000.00	
70,000 square feet of land	14,000.00	
	<u> </u>	\$39,000.00

102. St. Raphael's church and school, German Catholic ; Third street, corner Ferry, West Manchester ;

Building	\$35,000.00	
8,000 square feet of land	3,400.00	
	<u> </u>	\$38,400.00

94. St. George's church, French Catholic ; Pine street, corner Orange :

Building	\$75,000.00	
18,690 square feet of land	7,614.00	
	<u> </u>	\$82,614.00

95. St. Patrick's church and school, Catholic ; Kelley street, Cartier street, and Cooledge avenue :

School building	\$20,000.00	
56,281 square feet of land	4,502.00	
	<u> </u>	\$24,502.00

60. First Baptist church ; Union street, corner Concord :

Building	\$28,000.00	
11,250 square feet of land	6,750.00	
	<u> </u>	\$34,750.00

62. First Freewill Baptist church ; Merrimack street, corner Chestnut :

Building	\$12,400.00	
12,600 square feet of land	12,600.00	
	<u> </u>	\$25,000.00

61. Second Baptist church ; Merrimack street near Pine :

Building	\$9,000.00	
9,450 square feet of land	3,780.00	
	<u> </u>	\$12,780.00

63. People's Baptist church ; Chestnut street, corner Concord :

Building	\$8,000.00	
3,200 square feet of land	2,000.00	
	<u> </u>	\$10,000.00

67. First Congregational church ; Hanover street, corner Union :

Building	\$30,000.00	
43,200 square feet of land	34,560.00	
	<u> </u>	\$64,560.00

68. Second Congregational church ; Market street, corner Franklin :

Building	\$25,000.00	
19,000 square feet of land	19,000.00	
	<u> </u>	\$44,000.00

66. Third Congregational church ; South Main street, corner Milford, West Manchester :

Building	\$8,000.00	
23,000 square feet of land	3,000.00	
	<u> </u>	\$11,000.00

74. First M. E. church ; Valley street, corner Jewett :			
Building	\$8,000.00		
11,400 square feet of land	1,000.00		
		<u> </u>	\$9,000.00
72. St. Paul's M. E. church ; Union street, corner Amherst :			
Building	\$25,000.00		
10,010 square feet of land	6,000.00		
		<u> </u>	\$31,000.00
73. St. James M. E. church ; Pennacook street, corner Pine :			
Building	\$9,000.00		
11,000 square feet of land	2,200.00		
		<u> </u>	\$11,200.00
86. Grace church, Episcopal ; Lowell street, corner Pine :			
Building	\$20,000.00		
9,300 square feet of land	6,975.00		
		<u> </u>	\$26,975.00
85. First Unitarian church ; Concord street, corner Beech :			
Building	\$24,000.00		
13,500 square feet of land	6,000.00.		
		<u> </u>	\$30,000.00
87. First Universalist church : Lowell street, near Elm :			
Building	\$17,000.00		
10,000 square feet of land	15,000.00		
		<u> </u>	\$32,000.00
64. Christian church, Protestant ; Pine street, corner Merrimack :			
Building	\$6,000.00		
9,000 square feet of land	6,700.00		
		<u> </u>	\$12,700.00

81. First Presbyterian church, German; Second street, corner Bath, West Manchester :			
Building	\$3,000.00		
10,000 square feet of land	2,500.00		
		<u> </u>	\$5,500.00
79. Swedish Lutheran church, Protestant; Sagamore street, corner Pine :			
Building	\$7,500.00		
10,950 square feet of land	2,000.00		
		<u> </u>	\$9,500.00
82. Swedish Baptist church; Arlington street, near Maple :			
Building	\$5,000.00		
4,432 square feet of land	1,100.00		
		<u> </u>	\$6,100.00
Second Advent church; Amherst street, between Pine and Union :			
Building	\$5,100.00		
4,500 square feet of land	3,375.00		
		<u> </u>	\$8,475.00
65. City Mission chapel, Protestant; Merrimack street, corner of Beech :			
Building	\$7,000.00		
12,600 square feet of land	6,000.00		
		<u> </u>	\$13,000.00
80. Westminster Presbyterian church; Brook street, corner Hazel :			
Building	\$15,000.00		
10,000 square feet of land	2,500.00		
		<u> </u>	\$17,500.00
70. South Manchester Union chapel, Protestant; Elm street, south :			
Building	\$2,500.00		
10,747 square feet of land	1,000.00		
		<u> </u>	\$3,500.00

Episcopal Mission church ; North Main street, corner School, West Manchester :

Building	\$3,500.00	
19,412 square feet of land	4,000.00	
	<u> </u>	\$7,500.00

76. Residence pastor St. Paul's M. E. church ; Union street, near Amherst :

Building	\$3,000.00	
	<u> </u>	\$2,500.00

71. Residence pastor First Congregational church ; No. 590 Beech street, near Bridge :

Building	\$5,000.00	
8,100 square feet of land	2,400.00	
	<u> </u>	\$2,500.00
	\$7,400.00	

88. Residence pastor Grace Episcopal church ; corner Harrison and Union streets :

Building	\$6,000.00	
15,000 square feet of land	3,750.00	
	<u> </u>	\$2,500.00
	\$9,750.00	

German School Society ; Third, Bath, and Ferry streets :

Building	\$4,500.00	
10,187 square feet of land	2,500.00	
	<u> </u>	\$7,000.00

89. Elliot Hospital, Protestant ; East Manchester :

Building	\$23,000.00	
Land	7,000.00	
	<u> </u>	\$30,000.00

Elliot Hospital lot ; Hanover street, corner Chestnut :

Building	\$3,000.00	
Land	13,000.00	
	<u> </u>	\$16,000.00

84. W. C. T. U. Mercy Home; Mammoth road,
East Manchester:

Building	\$3,000.00	
Land	3,700.00	
	<u> </u>	\$6,700.00

90. Women's Aid and Relief Hospital; Pearl street,
corner Beech:

Building	\$15,000.00	
57,530 square feet of land	10,000.00	
	<u> </u>	\$25,000.00

116. Manchester Children's Home; Webster street:

Building	\$20,000.00	
55,000 square feet of land	2,500.00	
	<u> </u>	\$22,500.00

117. Residence pastor Swedish Lutheran church;
Sagamore street, corner Pine:

Building	\$3,000.00	
10,200 square feet of land	1,020.00	
	<u> </u>	\$2,500.00
		\$4,020.00

Gale Home:

One half Manchester Bank block, Elm street	\$38,000.00	
One half Martin's block, Elm street	25,000.00	
	<u> </u>	\$63,000.00

Hospital St. Vincent de Paul, French Catholic;
Lake avenue and Beech streets:

Hospital	\$3,000.00	
Land	4,000.00	
	<u> </u>	Taxable.
		\$7,000.00

Recapitulation.

EXEMPT FROM TAXATION.

Church property, Catholic	\$351,231.00	
Convent property, Catholic	68,400.00	
Parochial residences, Catholic	12,500.00	
Parochial schools, Catholic	131,200.00	
Hospitals and other charitable in- stitutions	113,875.00	
	<hr/>	\$677,206.00
Church property, Protestant	\$426,040.00	
Parochial residences, Protestant	10,000.00	
Private school property, Protestant	7,000.00	
Hospitals and other charitable insti- tutions	156,500.00	
	<hr/>	\$599,540.00

TAXABLE.

Land and buildings, Catholic	\$95,521.00	
Land and buildings, Protestant	14,170.00	
Mercy Home, W. C. T. U.	6,700.00	
	<hr/>	\$116,391.00
		<hr/>
		\$1,393,137.00

MEMORANDA.

St. Patrick's church and school, church building not yet erected.

St. George's church, in process of building.

St. Mary's church, in process of building.

SCHEDULE OF PROPERTY USED FOR MANUFACTURING PURPOSES EXEMPT BY LAW FROM
TAXATION.

Owner.	Occupant.	Location.	Goods manu- factured.	Exemption commenced.	Exemption ceases.	Unexpired term.	Valuation.
Amoskeag Mfg. Co.....	Amoskeag Mfg. Co....	Jefferson mill.....	Cotton	April 1, 1887.	April 1, 1897.	4 years..	\$1,000,000.00
Stark mills	Stark mills	Mill W. Side, n. McG. bridge.....	" .....	.....	" 1, 1900.	" ..	200,000.00
William W. Hubbard.....	William W. Hubbard.	Land and building, Dean ave	Wood	Dec. 1, 1885	" 1, 1896.	" ..	22,100.00
Manchester Shoe Mfg Co	Kimball Bros	{ Land and building, Hallsville.....	Shoes	June 1, 1884.	" 1, 1895	" ..	37,500.00
		{ Stock and machinery, Hallsville ..		" 1, 1881.	" 1, 1895.	" ..	30,000.00
West Side Shoe Co.....	*Crafts & Green	Land and buildings, W. Hancock....	"	" 16, 1890	" 1, 1901.	" ..	37,500.00
F. M. Hoyt & Co.....	*F. M. Hoyt & Co....	1½ acres land and building	"	Oct 6, 1891.	" 1, 1902.	" ..	20,700 00
Elliott Mfg. Co.....	†Elliott Mfg. Co.....	68,460 ft. land and factory, Valley } and Wilson	Shk.	April 5, 1892.	" 1, 1903.	" ..	32,000.00
Kimball Carriage Co.....	†Kimball Carriage Co.	Stock and machinery	Carriages, etc.	April 1, 1890	" 1, 1900.	" ..	32,000.00
		Land and building, Silver and Lincoln					
Kennedy Land Co.....	Josselyn & Seavey...	{ 1 acre land and building, south of brewery .....	.....	Dec. 12, 1892	" 1, 1903.	" ..	11,000.00
		{ Stock and machinery	Furniture ...	1 ec. 12, 1892.	" 1, 1903.	" ..	8,000.00
							\$1,430,800.00

* Stock and machinery taxable.

† Stock and machinery, — value not determined.

TABULAR STATEMENT OF BONDED DEBT, CITY OF MANCHESTER, N. H., FROM JANUARY 1 TO DECEMBER 31

YEAR.	Six per cent to build water-works. ^F	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 Metzregor bridge.
1890.....	\$400,000	\$200,000	\$13,850	\$120,000	\$60,000
1891.....	400,000	200,000	18,850	120,000	60,000
1892.....	300,000	300,000	20,000	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, December 31.	Amount of 6 per cent water bonds on which interest has ceased, not yet present-ed for payment.
\$155,000	\$948,850	\$99,900*	\$100,000	\$948,850	\$100
155,000	953,850	100	.....	953,850	.....
155,000	955,000	99,900	100,000	955,000	100

REMARKS.—The city guarantees the perpetual care of lots in the cemeteries of the city to parties who pay \$100 and upward. There are \$20,000 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	\$955,000.00
Net indebtedness for water purposes	600,000.00
Net debt after deducting water debt	\$355,000.00

* \$400,000 water bonds, issued January 1, 1872; \$100,000 of these bonds re-funded January 1, 1887; \$100,000 re-funded January 1, 1892.

† \$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.

As shown in the assessors' books for the year 1892 :

The assessed value of personal property, including poll tax	\$4,372,066.00
The assessed value of real estate	21,559,978.00
	<hr/>
Total value for taxation	\$25,932,044.00

Tax rate, 1.95 per cent on a hundred.

Per cent of net indebtedness (excluding debt for water purposes) to assessed valuation	1.369
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Per cent of net indebtedness (including debt for water purposes) to assessed valuation	3.682
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Population, census of 1890	43,983
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Population, census of 1880	32,458
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Increase of population in ten years	11,525
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Increase of population in 1891 (estimated at)	1,500
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Increase of population in 1892 (estimated at)	2,517
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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," except as further extended by

Laws of New Hampshire, 1891.

CHAPTER 26.

AN ACT to Preserve the Purity of the Water Supply of the city of Manchester.

SECTION 2. The board of water commissioners of the city of Manchester is hereby authorized to purchase for and in the name

of said city of Manchester, such land surrounding Lake Massabesic, and along any stream tributary thereto, as said board shall deem necessary for the preservation of the purity of the water of said Lake Massabesic, from which the water supply of said city of Manchester for domestic purposes is taken ; and the action of said board in making any such purchase shall be binding upon said city of Manchester ; and in case said board shall not be able to secure, on satisfactory terms, by purchase, such land as said board deems necessary for the purpose aforesaid, said board may, in the name of said city of Manchester, apply to the county commissioners of the county in which such land is situated, to assess the damages to the owner of such land as said board desires to acquire for the purpose aforesaid ; and said county commissioners shall proceed in the same manner as in the assessment of damages for lands taken for public highways, and upon payment or tender to the owner of the sum assessed by said county commissioners, the title to said land shall vest in said city of Manchester ; and the same right of appeal from such award of the county commissioners shall exist as in the case of lands taken for highways by the action of said commissioners.

STATEMENT IN RELATION TO THE BONDED DEBT OF THE CITY OF MANCHESTER, N. H.

Date of issuance.	Description.	Number.	Denomina- tion.	Amount.	Total.	Date when the principal is payable.	Rate per cent.	INTEREST.	
								When payable.	Where payable.
Jan. 1, 1862 (Refunded.)	Water bonds.	100	\$1,000	\$100,000	\$100,000	Jan. 1, 1912	4	Semi-annual.	At Suffolk Bank, Boston, Mass.
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	"	"
Jan. 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 (Refunded.)	" "	100	1,000	\$100,000	100,000	July 1, 1910	4	"	Suffolk Bank, Boston, Mass.
July 1, 1874	" "	50	100	\$5,000		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 (Refunded.)	" "	100	1,000	\$100,000	100,000	Jan. 1, 1907	4	"	"
Oct. 31, 1863	City bonds.	10	100	\$1,000		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	" "	50	1,000	\$50,000	50,000	July 1, 1894	6	"	"
1, 1881	Bridge bonds.	15	100	\$1,500		1, 1911	4	"	"
1, 1881	" "	39	500	19,500		1, 1911	4	"	"
1, 1881	" "	39	1,000	39,000	60,000	1, 1911	4	"	"
April 1, 1885	City bonds.	50	1,000	\$50,000	50,000	Apr. 1, 1905	4	"	Suffolk Bank, Boston, Mass.
1, 1885	" "	50	1,000	50,000	50,000	1, 1907	4	"	"
1, 1885	" "	50	1,000	50,000	50,000	1, 1909	4	"	"
1, 1883	" "	5	1,000	5,000	5,000	1, 1911	4	"	"
					\$935,000				

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 debt.	Four per cent to build Mc-Gregor bridge.	Four per cent to fund debt.	Total of annual interest.
1890.....	\$27,000	\$6,000	\$623.75	\$7,200	\$2,400	\$6,200	\$49,423.75
1891.....	24,000	8,000	\$13.92	7,200	2,400	6,200	48,613.92
1892.....	18,000	12,000	1,000.00	7,200	2,400	6,200	46,800.00

SUMMARY OF CITY DEBT.

Amount of bonded debt January 1, 1892 . . .	\$953,850.00
Amount of cemetery bonds issued in 1892 . . .	1,150.00
Accrued interest on bonded debt . . .	21,050.00
	<hr/>
Total indebtedness January 1, 1893 . . .	\$976,050.00

AVAILABLE ASSETS.

Net cash on hand January 1, 1893 . . .	\$96,477.18
Taxes uncollected, list of 1892 . . .	32,139.65
Stock of Suncook Valley Railroad, estimated value	14,500.00
	<hr/>
	\$143,116.83

BONDED DEBT.

Total net indebtedness January 1, 1892 . . .	\$873,791.65
Total net indebtedness January 1, 1893 . . .	832,933.17
	<hr/>
Decrease	\$40,858.48

* \$400,000 water bonds, issued January 1, 1872; \$100,000 re-funded at 4 per cent, January 1, 1887; and \$100,000 re-funded at 4 per cent, January 1, 1892.

† \$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 1854, and other additional bonds, each succeeding year. The city guarantees the perpetual care of lots in the cemeteries.

Bonds payable July, 1913, to the trustees of cemetery funds; not negotiable. Amount that can be issued limited to the sum of \$70,000.

PUBLIC BUILDINGS OCCUPIED IN PART BY PRIVATE PARTIES.
ENGINE-HOUSES.

Monthly rent.	Location.	Occupants	No. of rooms.	Heat furnished by	Gas furnished by	Remarks.
\$6.25	28 Vine street.....	{ Charles H. Rogers..... { Artemas 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. Halls used for private dancing parties and other festivities.
6.25	26 Vine street.....	{ Pennacook Hose Co. No. 1..... { Walter L. Blenis.....	2 halls..	City.....	City.....	.....
6.25	20 Vine street	{ Frank J. Dustin..... { N. S. Bean S. F. E. Co. No. 4. { Hook and Ladder Co. No. 1.	5 rooms. 5 rooms. 4 rooms. 2 rooms.	*Family.. *Family.. City..... City.....	Family.. Family.. City..... City.....	..... ..... Halls used for private parties.
6.25	18 Vine street	{ Charles M. Denyon..... { Warren F. Wheeler.....	7 rooms. 3 rooms.	*Family.. City.....	Family.. City.....	..... .....
5.00	8 Vine street	{ Chemical Engine Co..... { Walter Seaward.....	1 room. 7 rooms.	City..... Family..	City..... Family..	..... .....
8.33	521 Maple street.....	{ Henry S. Reed..... { Emil M. Smith.....	5 rooms. 5 rooms.	City..... City.....	Family.. Family..	..... .....
5.00	44 Webster	{ General Stark S. F. E. Co..... { Fire King S. F. E. Co. No. 2. { Merrimack S. F. E. Co. No. 3.	2 rooms. 1 hall.... 7 rooms. 5 rooms.	City..... City..... City.....	City..... City..... City.....	Hall used for private dancing parties and other festivities. Hall used for private dancing parties and other festivities. Hall used for private dancing parties and other festivities.

* One radiator in front room; heat furnished by city for that.

COURT HOUSE.

Annual rent.	Location.	Occupants.	No. of rooms.	Heat furnished by	Gas furnished by	Remarks.
Free.	Franklin, corner of Mer- rimack.	Manchester Art Association.	2	Art Ass'n.	Art Ass'n.	
.....	Franklin, corner of Mer- rimack.	City Mission Society.	1	City Mis- sion.	City Mis- sion.	

CITY-HALL BUILDING.

Annual rent.	Location.	Occupant.	Halls, of- fices, and stores.	Heat furnished by	Gas furnished by	Remarks.
\$250.00	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 al- lowed to be occupied for charitable purposes free.)
Unrec- tain.	City Hall on third story.	Sundry persons.	Hall.	"	City.	

PUBLIC BUILDINGS OCCUPIED IN PART BY PRIVATE PARTIES. — *Continued.*

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.
"	"	Emmet Guards.	1 room.	Emmet Guards.	Guards occupy third floor. Ward meetings are held in battery room on second floor.

Valuation of Real Estate Owned by the City.

High School, Beech street, corner Lowell :

Building	\$40,000.00	
59,400 square feet of land	17,820.00	
	<u> </u>	\$57,820.00

Franklin-street school, Franklin street, corner Pleasant :

Building	\$16,000.00	
19,200 square feet of land	19,200.00	
	<u> </u>	\$35,200.00

Spring-street school, Spring street :

Building	\$13,000.00	
13,600 square feet of land	13,600.00	
	<u> </u>	\$26,600.00

Lincoln-street school, Lincoln street, corner Merrimack :

Building	\$45,000.00	
40,000 square feet of land	8,000.00	
	<u> </u>	\$53,000.00

Ash-street school, Ash street, corner Bridge :

Building	\$50,000.00	
57,537 square feet of land	17,262.00	
	<u> </u>	\$67,262.00

Main-street school, North Main street, West Manchester :

Building	\$6,000.00	
40,293.4 square feet of land	10,073.00	
	<u> </u>	\$16,073.00

Webster-street school, Webster street :

Building	\$30,000.00	
55,714 $\frac{3}{4}$ square feet of land	13,928.00	
	<u> </u>	\$43,928.00

Blodget-street school, Blodget street :

Building	\$1,500.00	
9,000 square feet of land	3,600.00	
	<u> </u>	\$5,100.00

Schoolhouse lot, Bridge street, corner Union :

10,000 square feet of land		\$5,000.00
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Lowell-street school, Lowell street, corner Chestnut :

Building	\$1,000.00	
9,000 square feet of land	9,000.00	
	<u> </u>	\$10,000.00

Merrimack-street school, Merrimack street, corner Union :

Building	\$15,000.00	
12,600 square feet of land	6,300.00	
	<u> </u>	\$21,300.00

Wilson Hill school, Manchester street, corner Wilson :

Building	\$500.00	
15,850 square feet of land	1,902.00	
	<u> </u>	\$2,402.00

School-street school, School street, West Manchester :

Building	\$1,000.00	
12,176 square feet of land	3,044.00	
	<u> </u>	\$4,044.00

South Main-street school, South Main street, West Manchester :

Building	\$500.00	
13,650 square feet of land	2,047.00	
	<u> </u>	\$2,547.00

Bakersville school, Elm street, south :

Building	\$10,000.00	
24,184 square feet of land	3,628.00	
	<u> </u>	\$13,628.00

VALUATION OF REAL ESTATE OWNED BY THE CITY. 669

Stark District school, River road, north :

Building	\$1,000.00	
43,560 square feet of land	100.00	
	<u> </u>	\$1,100.00

Amoskeag school, Front street, Amoskeag :

Building	\$1,500.00	
6,000 square feet of land	1,000.00	
	<u> </u>	\$2,500.00

Lot, corner Amory and Dubuque streets, for school purposes :

16,600 square feet of land		\$2,490.00
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Goffe's Falls school, Goffe's Falls :

Building	\$4,000.00	
47,916 square feet of land	250.00	
	<u> </u>	\$4,250.00

Harvey District school, Nutt road :

Building	\$2,000.00	
21,780 square feet of land	100.00	
	<u> </u>	\$2,100.00

Webster Mills school, Webster Mills :

Building	\$400.00	
5,445 square feet of land	100.00	
	<u> </u>	\$500.00

Old Hallsville school, East Manchester :

Building	\$500.00	
30,075 square feet of land	3,008.00	
	<u> </u>	\$3,508.00

Youngsville school, Youngsville :

Building	\$500.00	
51,228 square feet of land	100.00	
	<u> </u>	\$600.00

Mosquito Pond school, Mosquito Pond :

Building	\$400.00	
10,890 square feet of land	100.00	
	<u> </u>	\$500.00

Park-street school,* Lake avenue :

Building	\$2,800.00	
10,500 square feet of land	15,750.00	
	<u> </u>	\$18,550.00

Varney school, Bowman street, corner Mast, West Manchester :

Building	\$43,750.00	
Land	6,700.00	
	<u> </u>	\$50,450.00

New Hallsville school, Jewett street, corner Young, East Manchester :

Building	\$26,300.00	
44,000 square feet of land	3,300.00	
	<u> </u>	\$29,600.00

\$480,052.00

ENGINE-HOUSES.

Engine-house and stable, Central station, Vine street :

Building	\$30,000.00	
12,718.86 square feet of land	25,438.00	
	<u> </u>	\$55,438.00

Clinton-street engine-house, Clinton street, West Manchester :

Building	\$1,000.00	
3,790 square feet of land	1,000.00	
	<u> </u>	\$2,000.00

North-Main-street engine-house, North Main street, West Manchester :

Building	\$18,000.00	
11,819 square feet of land	2,955.00	
	<u> </u>	\$20,955.00

Webster-street engine-house, Webster street, corner Chestnut :

Building	\$12,000.00	
8,510 square feet of land	2,180.00	
	<u> </u>	\$14,180.00

* Sold to Rev. J. J. Lyons by vote of the city councils.

Merrimack engine-house, Lake avenue :

Building	\$15,000.00	
10,000 square feet of land	3,000.00	
	<u> </u>	\$18,000.00

Hose house and cottage, Maple street, corner East High :

Building	\$3,000.00	
18,330 square feet of land	3,666.00	
	<u> </u>	\$6,666.00

Engine-house and ward room, ward 9, Rimmon and Amory streets, West Manchester :

Building (In process of erection.)		
6,000 square feet of land	\$870.00	\$870.00

Lot for hose house, South Manchester :

4,278 square feet of land	\$684.48	\$684.48
		<u> </u>
		\$119,793.48

OTHER PUBLIC BUILDINGS AND LOTS.

City library, Dean avenue, corner Franklin street :

Building	\$35,000.00	
15,000 square feet of land	30,000.00	
	<u> </u>	\$65,000.00

City Hall, Elm street, corner Market :

Building	\$10,000.00	
100,000 square feet of land	150,000.00	
	<u> </u>	\$160,000.00

City farm, Mammoth road :

Buildings	\$5,000.00	
46.66 acres, west Mammoth road	70,000.00	
81.55 acres, east Mammoth road	65,240.00	
	<u> </u>	\$140,240.00

Court house, Franklin street, corner West Merrimack :

Building	\$20,000.00	
19,000 square feet of land	57,000.00	
	<u> </u>	\$77,000.00

Battery building, Manchester street :

Building	\$13,000.00	
3,400 square feet of land	5,100.00	
	<u> </u>	\$18,100.00

Police station, Manchester street, corner Chestnut :

Building	\$40,000.00	
7,500 square feet of land	15,000.00	
	<u> </u>	\$55,000.00

City stable and other buildings, Franklin street :

Buildings	\$12,000.00	
44,656 square feet of land	89,312.00	
	<u> </u>	\$101,312.00

City scales, Franklin street :

Building		\$300.00
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Gravel lots, Goffstown :

2 acres		\$400.00
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Gravel lots, Bakersville, South Manchester \$700.00

Gravel lot, district No. 10, bought of Brooks & Brock (city has right to remove gravel until August 25, 1903) :

1 $\frac{1}{3}$ acres		\$500.00
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Land bought of A. D. Gooden :

28,750 square feet of land		\$1,351.00
		<u> </u>
		\$619,903.00

PERSONAL PROPERTY OWNED BY THE CITY.

Property in care city engineer	\$1,149.00
in care chief engineer fire department	89,010.00
in care superintendent highway district No. 2	27,000.00
in care superintendent highway district No. 10	2,365.00
in care superintendent of schools	36,755.00

VALUATION OF REAL ESTATE OWNED BY THE CITY. 673

Property in care city messenger	\$2,759.00
in care city marshal and janitor	1,971.00
in care superintendent of city farm	11,889.61
in care trustees of city library	29,333.00
in care superintendent of Pine Grove cemetery	248.35
in care superintendent Valley cemetery	106.00
Stock in Suncook Valley R. R., in care of city treasurer	50,000.00
Personal property in care city weigher	1,000.00
	<hr/>
	\$253,585.96
Uncollected taxes in 1891	\$2,236.83
Uncollected taxes in 1892	32,139.65
Net cash in the treasury, December 31, 1892	96,477.18
	<hr/>
	\$130,853.66

OTHER REAL AND PERSONAL ESTATE OWNED BY THE 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 com- mons	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	334,194.00
	<hr/>
	\$540,894.00

PARKS AND CEMETERIES.

Valley cemetery, 19.7 acres	\$200,000.00
Pine Grove cemetery, about 80 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
	<hr/>
	\$878,000.00

WATER-WORKS.

Real estate and personal property of water-works, at cost price	\$1,009,519.65
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RECAPITULATION.

Real estate owned by the city, schoolhouses	\$461,502.00
Real estate owned by the city	619,903.00
Real estate owned by the city, engine-houses	119,793.48
Water-works at cost price	1,009,519.65
Personal property owned by the city	253,585.96
Uncollected taxes and cash	130,853.66
Other real and personal property	540,894.00
Parks and cemeteries	878,000.00
	<hr/>
	\$4,014,051.75

PROPERTY ACCOUNT.

Inventory of assets, December 31, 1892	\$4,014,051.75
Inventory of assets, December 31, 1891	3,527,339.30
	<hr/>
Gain in valuation	\$486,712.45

The increase in the valuation as above stated results from the amount expended in 1892, on :

Sewers and drains	\$39,724.00
Hallsville schoolhouse	8,845.61

VALUATION OF REAL ESTATE OWNED BY THE CITY. 675

Goffe's Falls schoolhouse	\$2,000.00
Engine-house and ward room, ward 9	870.00
Water-works, construction	21,297.83
Land corner Amory and Dubuque streets for schoolhouse	2,490.00
Lot for hose house, South Manchester	684.48
Increased by re-valuation on schoolhouses and lots, net	71,733.39
Increased by re-valuation, engine-houses and lots, net	11,368.00
Increased by re-valuation, other public build- ings and land, net	334,658.00
Increased by re-valuation, personal property owned by the city	130.80
Increase in uncollected taxes	8,173.30
Increase in net cash in treasury	3,287.04
	<hr/>
	\$505,262.45

Deduct Park-street schoolhouse and lot, sold to
Rev. J. J. Lyons by vote of the mayor, alder-
men, and common council for \$2,800.00 \$18,550.00

Total net gain \$486,712.45

Details of inventory are on file in the auditor's office. The water-works would sell readily for \$1,750,000, and are growing yearly more valuable to the city. The large increase in the re-valuation of the public buildings and lands owned by the city is fully warranted by the opening and improvement of Derryfield park in the vicinity of the city farm lands, the high pressure service about to be introduced under the management of the water-works, the facilities for travel furnished by the street railway, and the rapid increase in our population and industries.

J. B. S.

Auditor's Office.

City Hall building. Open from 8 to 12 A. M.; 2 to 5 P. M., 7 to 9 P. M. on Thursday and Saturday.

In every bill presented to the city auditor for his approval, the following points will be considered and passed upon :

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 any 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, should 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 of each case may require.

COURT DECISIONS, LEGAL POINTS AND RULES, RELATING TO THE APPROVAL OR DISAPPROVAL OF CLAIMS AGAINST THE CITY.

No bill or account shall be paid by the city treasurer until the auditor has approved it as correct.

Public trusts or powers devolved by law or charter on the city councils cannot be delegated to others. *Dillon's Municipal Corporations*, section 96, volume 1.

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. General Laws, chapter 46, section 13.

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. General Laws, chapter 46, section 14.

The mayor and aldermen have all the powers and authority of selectmen of towns, unless it is otherwise provided by law. General Laws, chapter 46, section 14.

Joint standing committees have advisory powers only, they cannot legally be endowed with executive or legislative powers by ordinance or resolution of the city councils, as 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 into 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. *Dillon's Municipal Corporations*, volume 1, page 436, section 444.

Every bill against the city shall specify the particular appropriation to which the same should be charged, and the moneys paid will be charged to such appropriations only.

He who is intrusted with the business of others cannot be allowed to make such business a source of profit to himself.

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.

The board of engineers have the authority of firewards. (General Laws, chapter 106, section 11.) 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.

The laws and ordinances require the city auditor to withhold his signature from all bills against any appropriation where the amount of the appropriation is expended, until the city council shall have provided the means of paying the same. Section 4, chapter 3 of the City Ordinances, and section 4, ordinances relating to duties of the city auditor, approved January 7, 1890.

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. *Gove v. Epping*, 41 N. H. 539.

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, superintendents, subject to board of trustees (to consist of citizens not members of the city councils) ; for health department, board of health, subject to approval of mayor ; city library, board of trustees or person designated by them. 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.

The following form of blank is used in payment of ordinary bills for supplies or services, and can be obtained at the city auditor's office.

	<p>THE CITY OF MANCHESTER, N. H.</p> <p>To.....Dr.</p>		
Date.	Description of purchase.		Amount.

ORDERS AND RESOLUTIONS.

ORDERS AND RESOLUTIONS

PASSED IN 1892.

CITY OF MANCHESTER.

AN ORDER for an Artesian Well.

Ordered, That the mayor and joint standing committee on city farm be authorized to contract for the boring of an artesian well at the city farm, and that the expense thereof be charged to the appropriation for city farm.

Passed January 2, 1892.

CITY OF MANCHESTER.

AN ORDER relating to Purchase of Land in South Manchester, on which to erect a Hose House.

Ordered, That the mayor and joint standing committee on lands and buildings be and are hereby authorized to purchase a lot of land in South Manchester, on which to erect a hose house, the expense thereof to be charged to the appropriation for incidental expenses.

Passed January 5, 1892.

CITY OF MANCHESTER.

AN ORDER to build Patrol and Ambulance Wagon.

Ordered, That a sum not exceeding seven hundred dollars (\$700) be appropriated for combined patrol and ambulance

wagon and swing harness, the same to be charged to reserved fund.

Passed January 5, 1892.

CITY OF MANCHESTER.

AN ORDER to purchase a Horse for use in Fire Department.

Ordered, That the mayor and joint standing committee on fire department be authorized to purchase a horse for use in the fire department, the expense thereof to be charged to the appropriation for fire department.

Passed January 23, 1892.

CITY OF MANCHESTER.

AN ORDER to purchase a Horse and Wagon.

Ordered, That the mayor and city engineer be authorized to purchase a horse, wagon, and necessary fittings for the use of the city engineer's department, and the expense thereof be charged to the appropriation for engineer's department.

Passed February 2, 1892.

CITY OF MANCHESTER.

AN ORDER relative to Contract for an Ambulance and Patrol Wagon.

Ordered, That the mayor and joint special committee on ambulance and patrol wagon be authorized to contract for an ambulance and patrol wagon, the expense thereof to be charged to the appropriation for reserved fund.

Passed February 2, 1892.

CITY OF MANCHESTER.

AN ORDER to erect certain Lamp Posts.

Ordered, That the joint standing committee on lighting streets be authorized to erect certain lamp posts as follows: At Amoskeag Village, corner of Douglas and West streets; corner of Union and Auburn streets; corner of Harrison and Walnut streets; corner of Derry and Concord streets; corner of West Hancock and Second streets, — the expense thereof to be charged to the appropriation for lighting streets.

Passed February 2, 1892.

CITY OF MANCHESTER.

AN ORDER to assign Street Numbers.

Ordered, That the city engineer be authorized to prepare plans and assign the numbers for the new streets and extensions not already provided for, subject to chapter 36 of the City Ordinances, under the direction of the mayor, and the expense thereof be charged to the appropriation for city engineer's department.

Passed February 2, 1892.

CITY OF MANCHESTER.

AN ORDER to erect a Fountain at corner of Lake Avenue and Elm Street.

Ordered, That the joint standing committee on commons be authorized to purchase and erect a fountain at the corner of Lake avenue and Elm street, the expense thereof not to exceed one hundred dollars, and to be charged to the appropriation for incidental expenses.

Passed February 4, 1892.

CITY OF MANCHESTER.

AN ORDER relative to City Treasurer Sylvanus B. Putnam.

Ordered, That in consideration of the long and faithful service of Sylvanus B. Putnam, the city treasurer, and of his present serious illness, that said city treasurer be granted a leave of absence, and that he be empowered to appoint a deputy to perform the duties of his office during his illness.

Passed February 17, 1892.

CITY OF MANCHESTER.

AN ORDER.

Ordered, That the city marshal be given authority to detail an officer to act as houseman, and that the officer under detail receive extra compensation in return for such services.

Passed March 1, 1892.

CITY OF MANCHESTER.

AN ORDER relative to the Names of Schoolhouses.

Ordered, That the names of schoolhouses be hereafter known as follows :

- Ash-street schoolhouse.
- Amoskeag District schoolhouse.
- Bakersville schoolhouse.
- Blodget-street schoolhouse.
- Franklin-street schoolhouse.
- Goffe's Falls schoolhouse.
- Hallsville schoolhouse.
- High schoolhouse.
- Harvey District schoolhouse.

Lincoln-street schoolhouse.
 Lowell-street schoolhouse.
 Main-street schoolhouse.
 Merrimack-street schoolhouse.
 Mosquito Pond schoolhouse.
 Park-street schoolhouse.
 School-street schoolhouse.
 South Main-street schoolhouse.
 Spring-street schoolhouse.
 Stark District schoolhouse.
 Varney schoolhouse, West Manchester.
 Webster-street schoolhouse.
 Webster's Mills schoolhouse.
 Wilson Hill schoolhouse.
 Youngsville schoolhouse.
 Passed March 1, 1892.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-TWO.

RESOLUTION for the discontinuance of a part of the Old Falls
 Road.

Resolved by the Mayor, Aldermen, and Common Council of the
 City of Manchester, in City Council assembled, as follows :

That so much of the highway in said city of Manchester, known as the Old Falls road, as lies between the intersection of said Old Falls road with the south line of Lake avenue, so called, and the intersection of said Old Falls road with the north line of East Spruce street, so called, be and the same is hereby discontinued ; and resolved further that application be made to the supreme court for its consent to said discontinuance.

Passed March 1, 1892.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-TWO.

RESOLUTION to make a Temporary Loan of \$150,000.

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 first day of December, 1892, the mayor be authorized to make a temporary loan for the use of the city of a sum not exceeding one hundred and fifty thousand dollars (\$150,000), giving for the same the notes of the city, signed by the mayor and countersigned by the city treasurer.

Passed May 3. 1892.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-TWO.

RESOLUTION relating to Exemption from Taxation the Elliott Manufacturing Co.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That whereas the Elliott Manufacturing Company, a corporation established by law, with a capital of one hundred and fifty thousand dollars (\$150,000), desires to locate their factory and to carry on their business of manufacture and sale of their own products of knit or woven fabrics, made from cotton, silk, or wool, in said city of Manchester, providing sufficient inducements are given said corporation by the city government ; therefore,

Resolved, That the capital of the Elliott Manufacturing Company aforesaid, and its machinery, raw materials, and other

property necessary in conducting its business of manufacturing fabrics aforesaid, and the land and buildings used and occupied by said corporation in its said business, shall be exempt from all taxation for a period of ten years from April 5, 1892.

Passed April 5, 1892.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-TWO.

RESOLUTION to adopt a Plan for Streets at the West Side.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Councils assembled, as follows :

WHEREAS, The interests of the city require that the streets hereafter to be laid out in the city should be in continuation of those already constructed, or parallel to them, so that they may intersect at right angles, and that a systematic plan be adopted for that purpose ; and,

WHEREAS, it is essential in order to avoid future complications and unnecessary expense that such plan as may be adopted by the city council should be made public for the information of all parties interested ; therefore,

Resolved by the mayor, aldermen, and city council of the city of Manchester in city council assembled, as follows: That the plan presented to the city councils for the laying out of streets on the West Side by the Amoskeag Manufacturing Company, and No. 42,124 in city engineer's office, be adopted as the guide for future construction of streets in the system embraced in said plan, and that hereafter when new streets shall be required there, they be laid out in accordance with such plan, and not otherwise.

Passed April 5, 1892.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-TWO.

RESOLUTION for discontinuing part of the Highway known as
Cartier Street.

Resolved by the Mayor, Aldermen, and Common Council of the
City of Manchester, in City Council assembled, as follows :

That so much of Cartier street, situated in said city, be and is hereby discontinued, to wit : Beginning at a stake in the center of Cartier street, and about seventy-five feet north of north line of Adams street, at the foot of the bluff ; thence in a northerly direction, about 275 feet, to a stake on the top of said bluff, as shown by the accompanying plan.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER to establish Certain Grades.

Ordered, That the grades upon the following streets be established as shown upon the several plans :

Sullivan street from Beauport to Cartier, as shown on plan No. 112.

Beauport street from Amory to Kelley, as shown on plan No. 129.

Manchester street from Milton to Beacon, as shown on plan No. 142.

North street from Pine east back to Union, as shown on plan No. 145.

Nashua street from Bridge to Pearl, as shown on plan No. 146.

Adams street from Webster to P. Adams land, as shown on plan No. 147.

Adams street from Clark northerly 363 feet, as shown on plan No. 148.

Spruce back street from Lincoln to Wilson, as shown on plan No. 149.

McGregor west back street from Marion to Wayne, as shown on plan No. 150.

Elm avenue from Elm to Calef road, as shown on plan No. 701.

Chestnut street from Clarke northerly 356 feet, as shown on plan No. 702.

East High street from Jane to Wilson road, as shown on plan No. 703.

Central street from Beacon to Cass, as shown on plan No. 704.

Second street from North Weare Railroad to river, as shown on plan No. 705.

West Hancock street from Dartmouth to River, as shown on plan No. 706.

West Webster street from River road to railroad track, as shown on plan No. 707.

Morrison street from Pearl to Arlington, as shown on plan No. 708.

Summer street from Belmont to Massabesic, as shown on plan No. 714.

Central street from Chestnut to Union, as shown on plan No. 757.

Lake avenue from Old Falls road to Mammoth road, as shown on plans No. 792, 793, and 794.

Wilson street from Lake avenue to Hanover, as shown on plan No. 796.

Bowman street from Mast to A, as shown on plan No. 800.

Merrimack street from Elm to Wilson, as shown on plans Nos. 851, 852, 853, and 854.

Front street from brick store to Black brook, as shown on plans Nos. 857, 858, 859.

Massabesic street from Cypress to Mammoth road, as shown on plans Nos. 860 and 861.

Hanover street from Elm to Wilson, as shown on plans Nos. 952, 953, 954, 955, 956, 957.

Hall street from Bridge to Prospect, as shown on plan No. 888.

Belmont street from Valley to Clay, as shown on plan No. 889.

Young street from A. A. Ainsworth's land to Mason, as shown on plans Nos. 890 and 891.

Walnut street from Gore to Salmon, as shown on plan No. 892.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER for plans and estimates of Bridges.

Ordered, That the mayor and joint standing committee on streets be authorized to procure plans and estimates for a bridge at Second street in West Manchester, and report upon the same to the city government, the expense thereof to be charged to the appropriation for Second-street bridge.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER relative to purchase of Settees for use on Public Commons.

Ordered, That the mayor and joint standing committee on commons be authorized to purchase 100 settees for use on the public commons, the expense thereof to be charged to the appropriation for commons.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER to build Grove Street.

Ordered, That the mayor and joint standing committee on streets be authorized to build Grove street from Belmont street

easterly 500 feet, and the expense thereof be charged to the appropriation for new highways.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER relating to visit of Committee on Fire Department to Boston.

Ordered, That the mayor and joint standing committee on fire department, and the chief engineer, be and hereby are authorized to visit the city of Boston, to investigate the merits of the aerial ladder trucks, the expense thereof to be charged to the appropriation for fire department.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER to build Belmont Street.

Ordered, That the mayor and joint standing committee on streets be authorized to build Belmont street from Young road to Clay street, and the expense thereof to be charged to the appropriation for new highways.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER relating to the purchase of an Aerial Ladder Truck.

Ordered, That the mayor and joint standing committee on fire department purchase an aerial ladder truck, and the same to be charged to the appropriation for the fire department.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER to build Bay Street.

Ordered, That the mayor and joint standing committee on streets be and hereby are authorized to build Bay street, and the expense thereof be charged to the appropriation for new high-ways.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER relative to Shade Trees.

Ordered, That the mayor and committee on setting trees be authorized to purchase and set all the shade trees required by the city for the year 1892, the expense thereof to be charged to the appropriation for incidental expenses.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER relative to Sewer Pipe.

Ordered, That the mayor and joint standing committee on sewers and drains be and they are hereby authorized to contract for such quantities of sewer pipe as in their judgment the city may require for this year, and the expense thereof be charged to the appropriation for sewers and drains.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER to revise and print City Ordinances.

Ordered, That the mayor be authorized to employ some suitable person to revise the City Ordinances, and cause to be printed

500 copies of such revised ordinances, for the use of the city, the expense thereof to be charged to the appropriation for incidental expenses.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER to build Salmon Street.

Ordered, That the mayor and joint standing committee on streets be authorized to build Salmon street from Pine to Walnut street, and the expense thereof to be charged to the appropriation for new highways.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER for two Carts.

Ordered, That the mayor and joint standing committee on streets be authorized to procure two carts for the use of district No. 2, street department, and the expense thereof be charged to the appropriation for city teams.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER to build Summer Street.

Ordered, That the mayor and joint standing committee on streets be authorized to build Summer street from Belmont to Massabesic street, and the expense thereof be charged to the appropriation for new highways.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER to build a Culvert.

Ordered, That the mayor and joint standing committee on streets be authorized to build a culvert on Cemetery brook at Maple street, and the expense thereof be charged to the appropriation for new highways.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER to build Hall Street.

Ordered, That the mayor and joint standing committee on streets be authorized to build Hall street from Central street southerly to Lake avenue, a distance of 220 feet, and the expense thereof be charged to the appropriation for new highways.

Passed April 5, 1892.

CITY OF MANCHESTER.

AN ORDER relating to retaining Horses at three Fire Engine Stations.

Ordered, That the chief of the fire department be and hereby is authorized to retain horses at the following fire engine houses, viz., at the Merrimack fire engine house, Lake avenue; the General Stark fire engine house, Webster street; the Fire King engine-house, Main street; and Massabesic hose house, the expense of the same to be charged to the appropriation for fire department.

Passed May 3, 1892.

CITY OF MANCHESTER.

AN ORDER to build Elm Street.

Ordered, That the mayor and joint standing committee on streets be and are hereby authorized to build Elm street from Baker street southerly as laid out, and the expense thereof be charged to the appropriation for new highways.

Passed May 3, 1892.

CITY OF MANCHESTER.

AN ORDER to care for Team of Superintendent of District No. 10.

Ordered, That the city take care of the team of superintendent of streets in district No. 10, in a sum not exceeding one hundred and fifty dollars per year, the expense thereof to be charged to the appropriation for district No. 10.

Passed May 3, 1892.

CITY OF MANCHESTER.

AN ORDER to erect a Watering-Trough.

Ordered, That the mayor and joint standing committee on streets be authorized to erect a watering-trough at the corner of Second and Walker streets, supplied with city water and the overflow connected with the city's sewers, and the expense thereof be charged to the appropriation for incidental expenses.

Passed May 3, 1892.

CITY OF MANCHESTER.

AN ORDER to build Cartier Street.

Ordered, That the mayor and joint standing committee on streets be authorized to build Cartier street from Wayne street

southerly to the top of the bluff, and the expense thereof be charged to the appropriation for new highways.

Passed May 3, 1892.

CITY OF MANCHESTER.

AN ORDER to Concrete.

Ordered, That the mayor and joint standing committee on streets be and are hereby authorized to concrete Union street from the south side of Concord street to the south side of Hanover street, and the expense thereof be charged to the appropriation for macadamizing.

Passed May 3, 1892.

CITY OF MANCHESTER.

AN ORDER to build Green Street.

Ordered, That the mayor and joint standing committee on streets be and are hereby authorized to build Green street from Douglas street northerly about one hundred feet, and the expense thereof be charged to the appropriation for new highways.

Passed May 3, 1892.

CITY OF MANCHESTER.

AN ORDER relative to Electric Lights.

Ordered, That the joint standing committee on lighting streets cause to be erected certain electric lights as follows: East side of Elm back street between Spruce and Cedar streets; corner of Salmon street and Falls road; corner of Gates and Dubuque

streets ; corner of Appleton and Adams streets ; lower end of Elm street ; corner of Prospect and Ash streets ; corner of Maple and Auburn streets ; corner of Cass street and Lake avenue ; corner of Harrison and Russell streets ; the expense thereof to be charged to the appropriation for lighting streets.

Passed May 3, 1892.

CITY OF MANCHESTER.

AN ORDER to build Certain Streets.

Ordered, That the mayor and joint standing committee on streets be authorized to build :

Chestnut street from Appleton to Clarke street.

Amory street from Beaumont to Kimball street.

Lincoln street from Young to Silver street.

Myrtle street, from Linden to Belmont street.

Mitchell street from Calef road to Beech street.

B street from Milford to Prince street.

The expense thereof to be charged to appropriation for new highways.

Passed June 7, 1892.

CITY OF MANCHESTER.

AN ORDER relating to the Purchase of Horses for Fire Department.

Ordered, That the mayor and joint standing committee on fire department be and hereby are authorized to purchase three (3) horses for the use of the fire department, the expense of the same to be charged to the appropriation for fire department.

Passed June 7, 1892.

CITY OF MANCHESTER.

AN ORDER to establish Certain Grades.

Ordered, That the grades as shown on plan 784 of Cartier street from Amory to Kelley, and dated June 7, 1892, be established, and that the grade on the west side of Maple street from Amherst to Concord, as shown on plan No. 71, established March 6, 1883, signed by George H. Allen, city engineer, be changed to grade as shown on said plan of date June 7, 1892.

Passed June 7, 1892.

CITY OF MANCHESTER.

AN ORDER to Macadamize.

Ordered, That the mayor and joint standing committee on streets be and are hereby authorized to macadamize Maple street from Lake avenue to Merrimack street, and the expense thereof be charged to the appropriation for macadamizing.

Passed June 7, 1892.

CITY OF MANCHESTER.

AN ORDER to purchase a Transit.

Ordered, That the mayor and city engineer be authorized to purchase a transit instrument for the city engineer's department, the expense thereof to be charged to appropriation for the engineer's department.

Passed June 7, 1892.

CITY OF MANCHESTER.

AN ORDER to pave Certain Streets.

Ordered, That the mayor and joint standing committee on streets be and are hereby authorized to pave Granite street from

the river bridge to the canal bridge, and the expense thereof be charged to the appropriation for paving.

Passed June 7, 1892.

CITY OF MANCHESTER.

AN ORDER to Concrete certain Streets.

Ordered, That the mayor and joint standing committee on streets be and are hereby authorized to concrete Pine street from Lake avenue to Cedar street, and the expense thereof be charged to the appropriation for macadamizing.

Passed June 7, 1892.

CITY OF MANCHESTER.

AN ORDER to erect certain Lamp Posts.

Ordered, That the joint standing committee on lighting cause to be erected certain lamp posts, as follows :

Oil light at the corner of Cohas avenue and Dickey road. Electric lights at the corner of North River road and Clark street ; at the corner of Elm and Baker streets ; at the terminus of horse car railway, south, — the expense thereof to be charged to the appropriation for lighting streets.

Passed June 7, 1892.

CITY OF MANCHESTER.

AN ORDER to build a portion of Page Street, so called.

Ordered, That the highway surveyor in district No. 7 be directed to build a portion of highway known as Page street, lying between Hanover street and Candia road, so called, suitable

for public travel, the expense thereof to be charged to the appropriation for new highways.

Passed June 7, 1892.

CITY OF MANCHESTER.

AN ORDER to build certain Sewers.

Ordered, That the mayor and joint standing committee of sewers and drains be authorized to build certain sewers, as follows :

In Elm west back Bridge street, southerly about 200 feet.

In Adams street, from Appleton northerly about 200 feet.

In Ashland street, from Concord to Amherst streets.

In Webster street, from Union to Walnut streets.

In Cheney place, from Brown avenue to Elm street.

In Cartier street, from Wayne to Putnam.

In Pearl street, easterly about 100 feet (near Morrison).

In Belmont, from present sewer northerly to East High.

In Wilson road, from Lowell to Concord street.

In Grove street, from Belmont street easterly about 500 feet.

In Linden street, to Arlington northerly about 100 feet.

In Morrison street, from Pearl southerly about 200 feet.

And the expense thereof to be charged to the appropriation for sewers and drains.

Passed June 7, 1892.

CITY OF MANCHESTER.

AN ORDER to build certain Sewers.

Ordered, That the mayor and joint standing committee on sewers and drains be authorized to build certain sewers as follows :

From a point in Auburn south back street at Beech street ; thence westerly, in Auburn south back street, to Pine east back

street ; thence northerly, in Pine east back street, to Auburn street ; thence westerly in Auburn street to Elm-street sewer, according to the city's plan of sewers, and the expense thereof be charged to appropriation for sewers and drains.

Passed June 7, 1892.

CITY OF MANCHESTER.

AN ORDER for the purchase of Land for an Addition to Pine Grove Cemetery.

Ordered, That the mayor and trustees of Pine Grove cemetery be authorized to purchase for and in behalf of the city of Manchester, from John C. Ray and Mrs. Jacob F. James, three acres of land, more or less, being a certain lot which adjoins land now owned by the city, for an addition to Pine Grove cemetery, at a price not to exceed five hundred and thirty dollars for the whole of said land, the cost of the same to be charged to the appropriation for Pine Grove cemetery.

Passed June 7, 1892.

CITY OF MANCHESTER.

AN ORDER in relation to the Motive Power of the Manchester Street Railway.

Ordered by the Board of Mayor and Aldermen: That the Manchester Street Railway be and it is hereby authorized and empowered to use upon its Massabesic extension as now laid out, and upon any of its other extensions, any motive power, and the same form and manner of application, that said road is or may be authorized to use upon its main line in said city.

Passed July 5, 1892.

CITY OF MANCHESTER.

AN ORDER to build certain Streets.

Ordered, That the mayor and joint standing committee on streets be and are hereby authorized to build certain streets, as follows :

Dickey street, from West Hancock to Main street.

Prince street, from Boynton to Huntress street.

McDuffie street, from Boynton to Huntress street.

Hall street, from Bridge to Prospect street.

To widen and straighten Brown avenue, from Hancock to Baker street.

And the expense thereof be charged to the appropriation for new highways.

Passed July 5, 1892.

CITY OF MANCHESTER.

AN ORDER making transfer of Appropriation.

Ordered, That the city clerk be authorized to transfer two thousand dollars (\$2,000) from the reserved fund for the purpose of building an addition to the Goffe's Falls schoolhouse.

Passed July 5, 1892.

CITY OF MANCHESTER.

AN ORDER for the Purchase of a Safe.

Ordered, That the mayor and city tax collector be authorized to purchase a safe for the use of the city treasurer and city tax collector, at an expense not exceeding \$375, and that the same be charged to the appropriation for incidental expenses.

Passed July 5, 1892.

CITY OF MANCHESTER.

AN ORDER to erect an Electric Light.

Ordered, That the mayor cause to be erected an electric light on the road near the Eddy, as called for by the petition of Dennis Haggerty *et al.*, the expense thereof to be charged to the appropriation for lighting streets.

Passed July 5, 1892.

CITY OF MANCHESTER.

AN ORDER to build certain Sewers.

Ordered, That the mayor and joint standing committee on sewers and drains be authorized to build certain sewers as follows :

In Salmon street, from Pine to Union east back.

In Amherst street, from present end easterly seventy-five feet towards Union street.

In Young street, from Cypress to Jewett street.

To build a cesspool corner of Third and Blaine streets.

And the expense thereof be charged to the appropriation for sewers and drains.

Passed July 5, 1892.

CITY OF MANCHESTER.

AN ORDER for the erection of certain Electric Lights.

Ordered, That the joint standing committee on lighting streets be authorized to erect electric light poles at the following places :

At corner of Pine and Sagamore streets.

At corner of Merrimack and Wilson streets.

At corner of Fourth and Walker streets.

On Winter between Main and Parker streets.

On Bowman between Milford and A streets.

The expense of which is to be charged to the appropriation for lighting streets.

Passed July 5, 1892.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-TWO.

RESOLUTION authorizing the issue of Bonds to the Trustees of the Cemetery Funds.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That the mayor be authorized to issue bonds of the city of Manchester, N. H., to the trustees of the cemetery fund in such sums as they may require from time to time (the amount not to exceed fifty thousand [\$50,000] dollars), for the investment of the money left in trust for the care of lots and grounds in the cemeteries of said city ; the rate of interest not to exceed five per cent, payable annually on the first day of July each year, said bonds to be signed by the mayor, countersigned by the city treasurer, and not negotiable.

Passed July 7, 1892.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-TWO.

RESOLUTION relative to plan of Stark Park.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That the plan of Stark park submitted by the joint standing committee on commons, and made by Messrs. Morton and Quimby, of Boston, Mass., be and the same is hereby adopted.

Passed July 5, 1892.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-TWO.

RESOLUTION for the discontinuance of a part of the Highway known as the "Old Falls Road."

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

That so much of that highway known as the "Old Falls road" as lies between the intersection of said road with the easterly line of Nashua street, and a point in the northerly line of Concord street where the center of the "Old Falls road" intersects with the north line of Concord street, be and the same is hereby discontinued, and that application be made to the supreme court to secure its consent to said discontinuance.

Passed July 6, 1892.

 CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-ONE.

RESOLUTION relating to Mast Street.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

Whereas Mast street is unsafe and unsightly by reason of the bend in the same opposite the mills of the Baldwin Co., that the joint standing committee on streets ascertain the probable cost of straightening said street and making it safe for public travel.

Passed August 2, 1892.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-TWO.

RESOLUTION relating to Manchester Steam Company.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the right and permission is hereby granted to The Manchester Steam Company, their successors and assigns, to enter upon and construct, lay, operate, and maintain in the public streets of the city of Manchester, a system of pipes with all necessary branches, cutoffs, and manholes for conveying steam to public or private consumers within said city, for heating or power purposes, and to enter upon the same from time to time, as may be necessary for its maintenance, operation, repairs, and renewals of said system or any portion of the same.

Provided, however, that when said parties shall enter upon any streets for the purpose of constructing or repairing any portion of said system, they shall prosecute their work with due diligence, and shall close all trenches and holes as soon as possible as the work progresses, leaving said streets in as good condition as they found them at the time of entry; and *provided*, further, that said parties shall be liable to said city of Manchester, and to private persons for all damages and injury caused by or arising from the use or occupancy of any of the streets by them, for the purpose aforesaid, and said parties shall at all times hold said city harmless of and from all claims for damages arising from or by reason of the entry or occupancy of said streets, shall defend all suits brought for the enforcement of such claims, and pay all judgments obtained as a result of said suits.

Passed September 6, 1892.

CITY OF MANCHESTER.

AN ORDER to concrete Maple Street.

Ordered, That the mayor and joint standing committee on streets be and are hereby authorized to concrete Maple street

from Lake avenue to Merrimack street, instead of macadamizing as previously ordered, and the expense thereof to be charged to the appropriation for macadamizing.

Passed August 2, 1892.

CITY OF MANCHESTER.

AN ORDER to build Certain Streets.

Ordered, That the mayor and joint standing committee on streets be and are hereby authorized to build the following streets:

Hevey street from Kelly street southerly to the Boulevard, a distance of 1,150 feet.

Rimmon street from Amory street southerly to the Boulevard, a distance of about 950 feet.

Amory-street extension and Bartlett street from Hevey street to Putnam street.

The expense thereof to be charged to the appropriation for new highways.

Passed August 2, 1892.

CITY OF MANCHESTER.

AN ORDER making a transfer of an Appropriation.

Ordered, That the city clerk be authorized to transfer three hundred dollars (\$300) from reserved fund to free beds at Elliot Hospital.

Passed August 2, 1892.

CITY OF MANCHESTER.

AN ORDER relative to Addition to Goffe's Falls Schoolhouse.

Ordered, That the joint standing committee on lands and buildings be authorized to build the addition to the Goffe's Falls

schoolhouse, the expense thereof to be charged to the appropriation for addition to Goffe's Falls schoolhouse.

Passed July 18, 1892.

CITY OF MANCHESTER.

AN ORDER to Concrete Certain Streets.

Ordered, That the mayor and joint standing committee on streets be and are hereby authorized to concrete certain streets, as follows :

On Merrimack street from Beech to Maple street.

On Hanover street from Union to Beech street.

On West street from Douglas northerly about 122 feet.

And the expense thereof to be charged to the appropriation for macadamizing.

Passed August 2, 1892.

CITY OF MANCHESTER.

AN ORDER to purchase pump for artesian well at City Farm.

Ordered, That the joint standing committee on city farm be authorized to purchase a pump for artesian well at city farm, the expense thereof to be charged to the appropriation for city farm.

Passed August 2, 1892.

CITY OF MANCHESTER.

AN ORDER to purchase stone for Macadamizing.

Ordered, That the mayor and joint standing committee on streets be and are hereby authorized to purchase Salem ground-stone to topdress Bridge street from the bridge to McGregor

street, and the expense thereof be charged to the appropriation for macadamizing.

Passed August 2, 1892.

CITY OF MANCHESTER.

AN ORDER to remove trees in Massabesic street.

Ordered, That the mayor and joint standing committee on streets be authorized to remove the obstructions, otherwise known as trees, on Massabesic street, in front of land of Peter O. Woodman, the expense thereof to be charged to the appropriation for incidental expenses.

Passed July 20, 1892.

CITY OF MANCHESTER.

AN ORDER to purchase horse for Pennacook Hose Co.

Ordered, That the joint standing committee on fire department be authorized to dispose of one horse and purchase another for Pennacook Hose Co., the expense thereof to be charged to the appropriation for fire department.

Passed August 2, 1892.

CITY OF MANCHESTER.

AN ORDER to purchase Watering-Troughs.

Ordered, That the mayor and joint standing committee on streets be and are hereby authorized to purchase and set in position, with necessary connections, two combination drinking fountains for man and beast, to be located as follows: One at McGregor and Bridge streets and one at Lake avenue and Hall

street, and the expense thereof be charged to appropriation for incidental expenses.

Passed August 2, 1892.

CITY OF MANCHESTER.

AN ORDER to macadamize certain Streets.

Ordered, That the mayor and joint standing committee on streets be and are hereby authorized to macadamize Central street from Maple to Wilson street, and the expense thereof be charged to the appropriation for macadamizing.

Passed August 2, 1892.

CITY OF MANCHESTER.

AN ORDER to build a Sewer.

Ordered, if the Board of Mayor and Aldermen concur: That a sewer be built commencing at Douglas street on Barr street, and extending north to Conant, then west to Rimmon street, then north on Rimmon street about 200 feet.

Passed September 6, 1892.

CITY OF MANCHESTER.

AN ORDER for Street Signs.

Ordered, if the Board of Common Council concur: That the mayor and joint standing committee on streets be and are hereby authorized to procure street signs for the several streets, and place the same in position, the expense thereof to be charged to the appropriation for incidental expenses.

Passed September 9, 1892.

CITY OF MANCHESTER.

AN ORDER to purchase three horses for use in Fire Department.

Ordered, if the Board of Mayor and Aldermen concur: That the joint standing committee on fire department purchase three horses, one for use in Fire King Engine Co., and the others for use in Amoskeag Fire Engine Co., the expense thereof to be charged to the appropriation for fire department.

Passed September 6, 1892.

 CITY OF MANCHESTER.

AN ORDER to build certain Sewers.

Ordered, if the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on sewers and drains be and are hereby authorized to build certain sewers as follows:

- In Elm street from Sagamore 300 feet northerly.
- In Hanover street from Milton street easterly to Beacon street.
- In Beacon street from Hanover street northerly about 100 feet.
- In Bowman street from A street northerly to Milford street.

The expense thereof to be charged to the appropriation for sewers and drains.

Passed September 6, 1892.

 CITY OF MANCHESTER.

AN ORDER to sell schoolhouse on Lake Avenue.

Ordered, if the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on lands and buildings be authorized to sell the schoolhouse on Lake avenue.

Passed September 6, 1892.

CITY OF MANCHESTER.

AN ORDER to build certain Streets.

Ordered, if the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on streets be and are hereby authorized to build Young street from Beech to Hall street as already laid out, the expense thereof to be charged to the appropriation for new highways.

Passed September 6, 1892.

CITY OF MANCHESTER.

AN ORDER to concrete Main Street.

Ordered, if the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on streets be and are hereby authorized to concrete Main street from Amory to Putnam street, the expense thereof to be charged to the appropriation for macadamizing.

Passed September 6, 1892.

CITY OF MANCHESTER.

AN ORDER relative to Land and Buildings on Park Street.

Ordered, if the Board of Common Council concur: That whereas the city of Manchester, N. H., having sold the buildings and lot of land belonging to it known as the Park-street school-house, situate on Lake avenue, be it ordered that the mayor, Edgar J. Knowlton, be and is hereby appointed agent to make conveyance in the name of the city, and to execute the deed of said property in accordance with said sale.

Passed October 4, 1892.

CITY OF MANCHESTER.

AN ORDER to establish certain Grades.

Ordered, if the Board of Mayor and Aldermen concur: That the grades as shown on certain plans, as follows, be and are hereby established as the grades for such streets:

Boynton street from A southerly, about 1,940 feet. Plans Nos. 958 and 959.

Prince street from Boynton to Huntress street, 550 feet. Plan No. 710.

McDuffie street from Boynton to Huntress street, 475 feet. Plan No. 711.

Passed October 4, 1892.

CITY OF MANCHESTER.

AN ORDER to build certain Sewers.

Ordered, if the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on sewers be and are hereby authorized to build the following sewers:

On Granite street from Winter, northerly about 150 feet.

On Third street from Ferry, southerly about 150 feet.

On Orange street from present sewer, easterly about 60 feet.

The expense thereof to be charged to the appropriation for sewers and drains.

Passed October 4, 1892.

CITY OF MANCHESTER.

AN ORDER to erect certain Electric Lights.

Ordered, if the Board of Mayor and Aldermen concur: That the joint standing committee on lighting streets be authorized to erect certain electric lights:

On Chestnut, between Appleton and Clarke.

On Union, corner of Clarke.

On Brook, corner of Maple.

On Concord, corner of Beech.

On Prospect, corner of Linden.

On Belmont, corner of Gove.

On Hall, corner of Concord.

On corner of Cheney place and River road.

The same to be charged to the appropriation for lighting streets.

Passed October 4, 1892.

CITY OF MANCHESTER.

AN ORDER relative to Ward Rooms for Wards 1, 2, 3, and 7.

Ordered, if the Board of Mayor and Aldermen concur: That until otherwise established ward rooms, for the purpose of holding elections in wards 1, 2, 3, and 7, be established as follows:

Ward No. 1, the City Hall.

Ward No. 2, Blodget-street schoolhouse.

Ward No. 3, Mechanics' Hall.

Ward No. 7, court house.

Passed October 4, 1892.

CITY OF MANCHESTER.

AN ORDER to establish Grades.

Ordered, if the Board of Common Council concur: That the grades as shown on the following plans in the city engineer's department be established:

Amory, from Beauport to Kimball.

Hall, from Lake avenue to Bell.

Hall, from Young to Young road.

Wilson, from Young to Clay.

Bartlett, from Amory to Putnam.

Silver, from Lincoln to Hall.

Candia road, from Mammoth road to Londonderry turnpike.
Plans Nos. 862 to 876.

Lowell, from Wilson to Belmont.

Boynton, from South Main to Allen. Plans Nos. 958 and
959.

Adams, from Appleton to Clarke.

Jewett, from Massabesic to Cilley road. 2 plans.

Massabesic, from Cypress to Mammoth road. Plans Nos. 860
and 861.

Young, from A. A. Ainsworth's land to Mammoth road.
Plans Nos. 890 and 891.

Frederick, from Second easterly about 300 feet. Plan No.
898.

Second, from Piscataquog river to Bell. Plans No. 965 and
966.

McNeil, from West Hancock to Second. Plan No. 713.

Dickey, from South Main to West Hancock. Plan No. 897.

Dartmouth, from West Hancock to Frederick. Plan No. 900.

Cheney place, from Elm to Brown avenue.

Cedar, from Wilson to Elliott Manufacturing Co.'s east line.

Bell, from Wilson to Elliott Manufacturing Co.'s east line.

Auburn, from Wilson to Belmont.

Summer, from Wilson to Belmont.

Hampton, from Wilson to Belmont.

Gilman, from Wilson to Belmont.

Young, from Wilson to Hall.

Russell, from Orange to Harrison.

Belmont, from Valley to Clay. Plan No. 889.

Prospect, from Russell to Linden.

And the grades on the following streets changed :

Prospect, from Belmont westerly.

Hall, from Prospect to Myrtle.

Chestnut, from Appleton to Clarke.

Passed November 1, 1892.

CITY OF MANCHESTER.

AN ORDER to remove Watering-Trough at corner of Hanover and Hall Streets.

Ordered, if the Board of Common Council concur : That the mayor and joint standing committee on streets be authorized to remove the watering-trough at the corner of Hanover and Hall streets.

Passed November 1, 1892.

CITY OF MANCHESTER.

AN ORDER to concrete certain Streets.

Ordered, if the Board of Mayor and Aldermen concur : That the mayor and joint standing committee on streets be and are hereby authorized to concrete Granite street roadway on one side from car track to gutter, from Granite bridge to Main street, the expense thereof to be charged to the appropriation for macadamizing.

Passed November 1, 1892.

CITY OF MANCHESTER.

AN ORDER to change the Grade of Riddle Street.

Ordered, if the Board of Mayor and Aldermen concur : That the grade on Riddle street, West Manchester, be changed to conform to the grade as shown on plan No. 769, in the city engineer's department.

Passed November 1, 1892.

CITY OF MANCHESTER.

AN ORDER to purchase an Extra First Size Steam Fire Engine, and one Combination Chemical Engine.

Ordered, if the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on fire department be authorized to purchase an extra first size steam fire engine and one combination chemical engine for use in the fire department, the expense thereof to be charged to the appropriation for West Side engine-house for 1893.

Passed November 1, 1892.

CITY OF MANCHESTER.

AN ORDER to build certain Sewers.

Ordered, if the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on sewers and drains be authorized to build certain sewers as follows:

In Webster street from Walnut street easterly about 300 feet.

In Jane street from Nashua street easterly about 150 feet.

In Prospect street from Russell easterly to Hall street.

In Blaine street from Second street easterly to Hiram street.

In West Hancock street from South Main street easterly to Merrimack river.

In Welch avenue from Elm street easterly to Calef road.

In Elm avenue from Elm street easterly to Calef road.

The expense thereof to be charged to appropriation for sewers and drains.

Passed December 6, 1892.

CITY OF MANCHESTER.

AN ORDER to erect certain Electric Lights.

Ordered, if the Board of Mayor and Aldermen concur : That the joint standing committee on lighting streets be authorized to erect certain lamp-poles, as follows :

- Corner Market and Canal streets.
- Corner Brook and Hazel streets.
- Corner Belmont and Merrimack streets.
- Corner Pine and Valley streets.
- Corner South Jane and High streets.
- Corner Spruce and Beacon streets.
- Corner Pearl and Morrison streets.
- Corner Milton and Manchester streets.
- Corner Webster and Walnut streets.
- Corner Rimmon and Amory streets.

The same to be charged to the appropriation for lighting streets.

Passed December 6, 1892.

CITY OF MANCHESTER.

AN ORDER providing for the pay of the Election Officers at the late Election.

Ordered, if the Board of Mayor and Aldermen concur : That the moderators, selectmen, and inspectors of elections of the several wards of the city, who acted in said capacities at the election just past in November, be paid for all services in connection with elections the sum of ten dollars each, the same to be inclusive of all pay for such services now provided for by ordinance.

Passed December 6, 1892.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-TWO.

RESOLUTION relating to exemption of Kennedy Land Company.

Resolved, by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Councils assembled, as follows :

That whereas the Kennedy Land Co., a corporation duly established by law, propose to erect buildings and lease the same, with a tract of land not exceeding one acre, to Josselyn & Seavey for the manufacture of furniture, upon the land south of the brewery, on the line of the Concord & Montreal Railroad, provided sufficient inducements be given by the city ; therefore,

Resolved, That the buildings erected upon said premises for the use of Josselyn & Seavey, or whoever else may occupy the same for manufacturing purposes, with land used by them in said business, not exceeding one acre, shall be exempt from taxation for and during the term of ten years from December 12, 1892.

Passed December 17, 1892.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-TWO.

RESOLUTION relating to exemption from Taxation of Josselyn & Seavey.

Resolved, by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows :

WHEREAS, Lewis H. Josselyn, of Manchester, and Edward J. Seavey, of Goffstown, partners under the firm of Josselyn & Seavey, propose to engage extensively in the manufacture of furniture in buildings to be erected by the Kennedy Land Company upon the land of the said company adjoining the Concord

& Montreal Railroad south of the brewery, provided the city will give sufficient encouragement in exemption from taxation ; therefore

Resolved, That the machinery, stock, and tools of said Josselyn & Seavey upon the aforesaid premises used in manufacturing, and the furniture manufactured and in process while upon said premises, be exempted from taxation for and during ten years from December 6, 1892.

Passed December, 1892.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-TWO.

RESOLUTION of the Common Council on the death of John Henry Schimmel.

WHEREAS, God in His Divine Providence has seen fit to remove from our number one in active life, John Henry Schimmel, our associate in the Common Council of the City of Manchester, recognizing the frailty of earthly existence, and our dependence upon a power higher than ours, we desire to express our feelings of sorrow and loss, therefore

Resolved, That in John Henry Schimmel we lost one active, fearless, and sincere in his dealings with men, who took great interest in the prosperity of our city, and an open advocate of all measures which he considered in the interest of the people.

Resolved, That we tender our heartfelt sympathy to his family in this their bereavement.

Resolved, That a copy of these resolutions be sent to his family and placed upon the records of the council.

FRED T. DUNLAP,
JOHN P. MULLEN,
THOS. WILKINSON,

Committee on Resolutions.

Passed in Common Council, December 6, 1892.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-TWO.

RESOLUTION of the Board of Aldermen on the death of Andrew J. Dickey.

WHEREAS, in the dispensation of Divine Providence, Andrew Jackson Dickey, one of our associates in the board of aldermen of Manchester, has been suddenly taken from our number, thus reminding us of the uncertainty of human life, and desiring to express our feelings of regret and sorrow at our loss, therefore

Resolved, That in Andrew Jackson Dickey we have lost an honest and earnest worker for the best interests of the city, one who was careful and considerate in all matters relating to its prosperity, fearless and outspoken against all measures detrimental to its present or future welfare.

Resolved, That we extend our heartfelt sympathy to his family and friends in their great and unexpected bereavement.

Resolved, That a copy of these resolutions be sent to his family and placed upon the records of the board of aldermen.

W. B. STEARNS,
JOHN L. SANBORN,

Committee on Resolutions.

Passed in Board of Aldermen, December 17, 1893.

Contract.

City of Manchester, N. H., by S. F. Hayward & Company.
Dated, September 6, 1892.

SEPTEMBER 6, 1892.

To the Fire Committee, Manchester, N. H.:

GENTLEMEN, — The Fire Extinguisher Manufacturing Company, S. F. Hayward & Co., general eastern agents, will build for the city of Manchester the following apparatus, to wit:

One Babcock aerial turn-table hook-and-ladder truck, as per Steck's patent of November 11, 1884; July 7, 1885; September

7, 1886 ; March 13, 1888, and April 10, 1888, with all the latest improvements and as per the following specifications, to wit :

One main or aerial ladder to be trussed, making it very rigid, impossible for it to bend under regular, ordinary use, impossible for it to break.

One extension or fly ladder, the two when raised and extended to reach eighty-five feet from the ground. The fly ladder to have a 2-foot iron splice on end. (Our patent.)

The main aerial ladder to be trussed both ways and to be raised by two vertical screws, operated by cranks in the hands of men standing on the ground. These screws to work at right angles with the ladder, forming a brace as same is being raised. There is no lost power in raising the ladder because we have no longitudinal strain.

The ladder is additionally braced by phosphor bronze cable, reaching from end to end. By our process of raising the ladder the strain is not at the raising point but from end of the ladder, consequently can be raised with less men and easier than any other known truck.

The truck is not to be over six feet high from the ground to the top of the ladder as it lies horizontally on the frame.

The fly ladder is operated by men by metal cranks, standing on the ground and not on the turn-table. Nor is it necessary to send a man up the aerial ladder to loosen the dogs to allow the fly ladder to come down, as this is controlled by men with cranks, there being automatic dogs and hooks.

One steel turn-table over front gear, made of three parts, to turn aerial ladder in any position.

Frame of truck to be of channel steel.

Axles to be of best Lomoor iron and to have solid collars and round shoulders.

Springs, platform, three-front and three rear, constructed of the best oil-tempered Swede steel.

Wheels, Archibald patent, with brass closed end hub caps and round edge steel tires.

Platform at sides of truck covered with rubber matting and corrugated brass strips.

Seats, one driver's seat with cushion and whip socket; one steersman's seat with cushion, wheel, and shaft. This seat is made to throw over and when in position to have bayonet lock attachment.

The steersman is over all ladders and has as clear a view of all that is before him as has the driver.

One three-horse hitch complete.

Brake, Steck's patent quick acting, by which means brake chains work through hollow king bolt, so that wheels can be locked by a man from driver's seat in any position.

Ladders, which are as follows, are made of the best clear seasoned Oregon pine with Ash rounds.

Two 35-foot single ladders.

Two 30-foot single ladders.

Two 25-foot single ladders, to be carried at sides of truck.

One 20-foot single ladder.

One 16-foot single ladder.

One 16-foot roof ladder.

One 12-foot roof ladder.

Truck to be fitted for one 60-foot Bangor ladder, which you are to furnish.

Ladders carried on rubber covered rollers, and have number of feet marked on ends so that any particular ladder can quickly be gotten off of truck. These ladders or the lengths of same can be changed about to suit your wishes.

Pike poles, ten assorted lengths, from six to ten feet.

Extinguishers, two pony Babcock, with charges for same.

Axes, six pick back.

Door openers, one Detroit. (Our patent.)

Crowbars, one steel.

Pitchforks, four.

Shovels, two.

Sledge, one.

Lanterns, four eclipse. (Our patent.)

Wrenches, one each, monkey and hub.

Wire baskets, one under frame.

Tool box, one.

Buckets, four rubber.

Gong, one 15-inch.

All tools attached by proper holders and scabbards.

Painted as desired.

Lettered as desired.

We hereby agree that the workmanship and materials shall be of the best quality and all parts to work in a manner satisfactory to your board. And further agree that any part breaking or giving out inside of one year from date of going into service, attributable to any fault of ours as manufacturers, we agree to make good without cost to your city.

The above described apparatus and equipments shall be built and delivered to your board within ninety days from the date of the acceptance of this bid, delivered freight prepaid in the city of Manchester, for the sum of thirty-five hundred dollars (\$3,500).

We further agree to furnish one 12-foot Pompier ladder and one 14-foot Pompier ladder, with proper attachments for carrying on truck, for the sum of forty dollars and fifty cents (\$40.50) extra.

Respectfully submitted.

FIRE EXTINGUISHER MFG. CO.,
S. F. Hayward & Co., General Eastern Agents.

Scavenger's Contract.

THIS AGREEMENT,

Made and executed this 8th day of June, 1892, by and between William H. Carpenter, of 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 E. J. Knowlton, mayor, specially authorized thereto by vote of the city councils,

WITNESSETH: That for and in consideration of the mutual promises and agreements hereinafter set forth, said parties do

hereby contract and agree together as follows, to wit: Said William H. Carpenter hereby contracts and agrees to remove all perishable matter from the limits fixed and bounded in the compact part of said city of Manchester, as shown upon the map of said city in the office of the city engineer, in accordance with the provisions of the ordinance of said city of Manchester, establishing a scavenger service, passed May 6, 1890, for the term of one year from the 9th day of June, 1892, for the sum of one thousand six hundred dollars (\$1,600), to be paid by said city. And he further agrees and contracts to use good horses and wagons, and a sufficient number for the suitable performance of the work, and to remove all of said matter at least two miles from the city limits, and at least one fourth of a mile distant from any house, and to do all of said work in a proper and suitable manner, in all respects in accordance with the aforesaid ordinance, and to the satisfaction of the board of mayor and aldermen. And said city of Manchester hereby contracts and agrees to pay said Carpenter, upon the satisfactory performance of his contract, the sum of one thousand six hundred dollars (\$1,600), in monthly payments.

E. J. KNOWLTON, *Mayor*.

W. H. CARPENTER, *Contractor*.

Witness: N. P. KIDDER.

Scavenger's Bond.

Know all men by these presents, that we, William H. Carpenter, as principal, and Alfred G. Fairbanks and James F. Cavanaugh, as sureties, all of Manchester, in the county of Hillsborough and state of New Hampshire, are held and firmly bound to the city of Manchester, a municipal corporation in said county and state, in the sum of sixteen hundred dollars (\$1,600), to be paid to said city of Manchester, to the payment whereof we jointly and severally bind ourselves and our heirs firmly by these presents.

Sealed with our seals and dated the eighth day of June, A. D. 1892. The condition of this obligation is, That whereas the above-named William H. Carpenter has this day entered into a contract with the said city of Manchester to do scavenger work in accordance with the ordinances of said city, now if the said William H. Carpenter shall well and truly perform all the services, duties, and conditions of said contract, and by it imposed upon him, then this obligation shall be void.

W. H. CARPENTER. [L. S.]
 ALFRED G. FAIRBANKS. [L. S.]
 JAMES F. CAVANAUGH. [L. S.]

Signed, sealed, and delivered
 in the presence of

F. L. WALLACE.
 C. H. BUTMAN.

Contract

Between the Head & Dowst Co., of the first part, and the City of Manchester of the second part. Dated October 6, 1892.

THIS AGREEMENT

Made and entered into this 6th day of October, in the year one thousand eight hundred and ninety-two, by and between The Head & Dowst Co., of the city of Manchester, county of Hillsborough, and state of New Hampshire, of the first part, contractors; and the city of Manchester, a municipal corporation in the county of Hillsborough, and state of New Hampshire, of the second part:

WITNESSETH: First. The said first party do hereby, for their heirs, executors, administrators, or assigns, covenant, promise, and agree to and with the said second party, its successors or assigns, that they the said first party, their heirs, executors, administrators, or assigns, shall and will, for the consideration hereinafter mentioned, on or before the 1st day of October, in the

year one thousand eight hundred and ninety-two, well and sufficiently erect, finish, and deliver in a true and thoroughly workmanlike manner, all the several specified works required in the erection and completion of an addition 28' 6" \times 36' 4" to schoolhouse at Goffe's Falls for the said second party, on ground situated in the city of Manchester, county of Hillsborough, and state of New Hampshire, agreeably to the plans and drawings prepared for the said works by The Head & Dowst Co., and under the direction and personal supervision of the committee on lands and buildings, and will find and provide such good, proper, and sufficient materials, of all kinds whatsoever, as shall be proper and sufficient for the completing and finishing, in a proper manner, all the works mentioned in the specifications, or set forth by the plans and details for the said works within the time aforesaid, for the sum of two thousand dollars.

In consideration of the prompt and faithful performance of the foregoing terms and covenants by the said first party, the said second party agrees and hereby binds itself, its successors, or assigns, to pay or cause to be paid unto the said first party, or unto their heirs, executors, administrators, or assigns, the sum of two thousand dollars, lawful money of the United States of America.

AND IT IS HEREBY FURTHER AGREED, BY AND BETWEEN THE SAID PARTIES.

First. That the specifications and drawings are intended to co-operate, so that any works exhibited in the drawings, and not mentioned in the specifications, or *vice versa*, are to be executed the same as if mentioned in the specifications and set forth by the drawings, to the true intent and meaning of the said drawings and specifications.

Second. The contractors, at their own proper cost and charges, are to provide all manner of labor, materials, apparatus, scaffolding, utensils, and cartage of every description, needful for the due performance of the several works; must produce, whenever required by the city, all vouchers showing the quality of goods and materials used; and render all due and sufficient facilities to

the city or its agent for the proper inspection of the works and materials, and which are to be under their control ; and the city may require the contractor to dismiss any workman or workmen who they may think incompetent or improper to be employed. The contractor shall deliver up the works to the city in perfect repair and in good condition when complete. The contractor shall not sub-let any of the works, without consent of the city.

Third. Should the city, at any time during the progress of the said works, require any alterations of, additions to, or omissions in the specifications or plans, it shall have the right or power to make such change or changes and the same shall in no way injuriously affect or make void the contract ; but the difference for work omitted shall be deducted from the amount of the contract, by a fair and reasonable valuation ; and for additional work required in alterations, the amount shall be agreed upon in writing, and such agreement shall state also the extension of time (if any) which is to be granted by reason thereof.

Fourth. Should the contractor, at any time during the progress of the said works, become bankrupt, refuse or neglect to supply a sufficiency of material or of workmen, or cause any unreasonable neglect or suspension of work, or fail or refuse to follow the drawings and specifications, or comply with any of the articles of agreement, the city or its agent shall have the right and power to enter upon and take possession of the premises, and may at once terminate the contract, whereupon all claim of the contractor, their heirs, executors, administrators, or assigns shall cease, and the city may provide materials and workmen sufficient to complete the said works, after giving forty-eight hours' notice in writing, directed and delivered to the contractor, or residence or his place of business ; and the expense of the notice and the completing of the various works will be deducted from the amount of contract, or any part of it due, or to become due, to the contractor ; and in such case no scaffolding or fixed tackle of any kind, belonging to such contractor, shall be removed so long as the same is wanted for the work. But if any balance on the amount of this contract remains after completion in respect of work done during the time of the default-

ing contractor, the same shall belong to the persons legally representing them, but the city shall not be liable or accountable to them in any way for the manner in which it may have gotten the work completed.

Fifth. Should any dispute arise respecting the true construction or meaning of drawings or specifications, or as to what is extra work outside of contract, the same shall be decided by the _____, and his _____ decision shall be final and conclusive; but should any dispute arise respecting the true value of any works omitted by the contractor, the same shall be valued by two competent persons, one employed by the city and the other by the contractor, and these two shall have the power to name an umpire whose decision shall be binding on all parties.

Sixth. The city will not, in any manner, be answerable or accountable for any loss or damage that shall or may happen to the said works, or any part or parts thereof respectively, or for any of the materials or other things used and employed in finishing and completing the said works; or for injury to any person or persons, either workman or the public, or damage to the adjoining property, from any cause which might have been prevented by the contractor or his _____ workmen, or any one employed by him _____ against all which injuries and damages to persons and property, the contractor having control over such work must properly guard against, and must make good all damage from whatever cause, being strictly responsible for the same.

Seventh. The contractor will insure the building to cover his _____ interest in the same from time to time, as required, and for any loss of the contractor by fire the city will not under any circumstances be answerable or accountable, but the city may protect itself by insurance to cover its interest when payments have been made to contractor.

Eighth. All works and materials, as delivered on the premises to form a part of the works, are to be considered the property of the city and are not to be removed without its consent; but the contractor shall have the right to remove all surplus materials after his _____ completing the works.

Ninth. Should the contractor fail to finish the work at or before the time agreed upon, shall pay to or allow the city, by way of liquidated damages, the sum of dollars per diem, for each and every day thereafter the said works shall remain incomplete.

IN WITNESS WHEREOF We have hereunto affixed our signatures and seals, the day and year above written. Signed and sealed in presence of

THE HEAD & DOWST CO., [L. s.]

By F. DOWST, *President.*

Witness :

JOHN DOWST.

FRANK A. CADWELL.

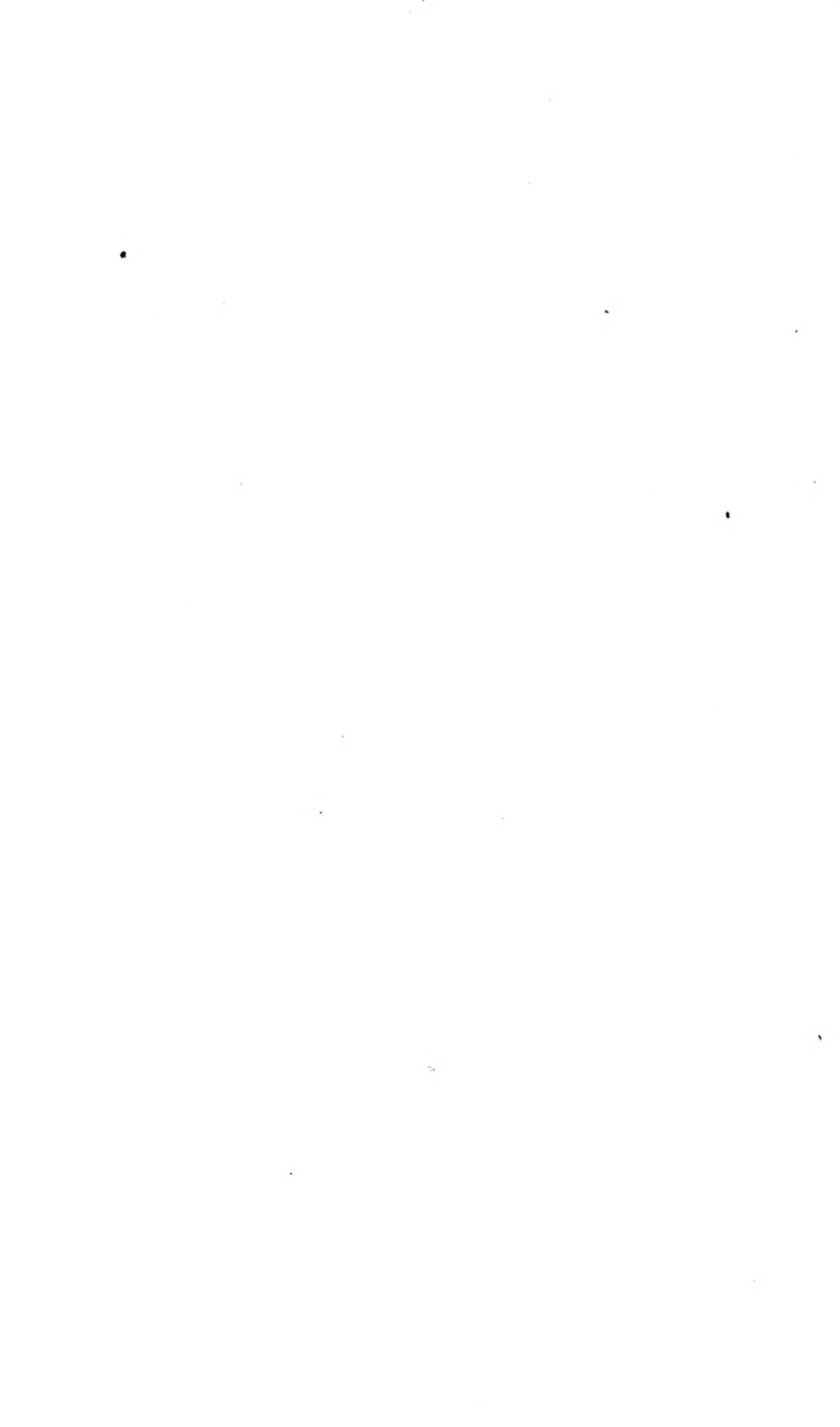
THE CITY OF MANCHESTER, [L. s.]

By E. J. KNOWLTON.

Witness :

M. J. HEALY.

INDEX.



INDEX.

A

	PAGE
Advertising and printing.....	549
Abatement on taxes.....	636
Assets, statement and inventory of.....	667-675
Annual interest charge on bonded debt.....	663
Auditor, city, report of.....	405
Appropriations for 1892 by city councils.....	637
Auditor's department.....	458-676
Appendix, school.....	304
Addition to Goffe's Falls schoolhouse.....	593
Amoskeag cemetery.....	618

B

Bridges.....	510
Books and stationery.....	548
Buildings, repairs of.....	587
Board of water commissioners, organization of.....	9-10-28
report of.....	29
health, report of.....	333
Bonded debt.....	659-663
tabular statement of.....	659
detailed statement of for 1892.....	662
Buildings, public, occupied by private parties.....	664-666
Bonded debt, annual interest charge.....	663
Bridge, Second-street.....	530

C

Churches, etc., valuation of, exempt from tax.....	648
City Hall.....	426
City officers' salaries.....	451
City teams.....	514
Contingent expenses.....	550
Care of rooms.....	554
City library.....	559
Commons.....	604

Cemetery, Pine Grove.....	609
Valley.....	613
East Manchester.....	617
Goffe's Falls.....	618
Amoskeag.....	618
City farm.....	623
County tax.....	637
City officials, list of.....	3-25
engineer, report of.....	127
engineer's department, organization of.....	126
library, report of trustees of.....	197
treasurer's report.....	202
librarian's report.....	207
donations to.....	211
Cemeteries, report of sub-trustees of Valley.....	231
Pine Grove.....	229
treasurer.....	227
fund of, report of trustees.....	225
City farm, report of joint standing committee.....	243
solicitor, report of.....	249
marshal, report of.....	265
Committee, school, report of.....	273
City auditor's report.....	405
treasurer's report.....	410
councils, resolutions and orders.....	683
physician, report of.....	255
auditor's department.....	458-676
Contracts.....	723-732
Contract with S. F. Hayward & Co., aerial ladder truck.....	723
W. H. Carpenter, scavenger service.....	726
Head & Dowst Co, Goffe's Falls schoolhouse.....	728

D

Debt, payment of funded.....	423
Decoration of soldiers' graves.....	634
Debt, bonded, statement of.....	659-662
tabular statement of.....	659
detailed statement of, for 1892.....	662
Derryfield park.....	616

E

Engine-house and ward room, ward 9.....	593
Engineer's department.....	530
Expenses, incidental.....	434
mayor's.....	450
contingent.....	550
East Manchester cemetery.....	617
Evening schools.....	556
school, mechanical drawing.....	557
Electric lights, location of.....	365, 373
Elliot Hospital.....	633
Exempted from tax, property.....	646-657
Electric street lighting in American cities.....	377

F

Fund, reserved.....	423
Fuel.....	542
Furniture and supplies.....	544
Free text-books.....	558
Fire department.....	562
Fire-alarm telegraph.....	576
Firemen's parade.....	579
Farm, paupers off.....	619
Free beds, Elliot Hospital.....	633
Fire department, report of chief engineer.....	65
value of personal property.....	98-105
names and residences of members.....	106-110
location of hydrants	111-123
Farm, city.....	623

G

Grading for concrete.....	502
Graves, decoration of soldiers'.....	634
Gas-lights, location of.....	373-375
Goffe's Falls cemetery.....	618

H

Highway district No. 1.....	460
2.....	462
3.....	465
4.....	466
5.....	467
6.....	469
7.....	470
8.....	472
9.....	473
10.....	474
11.....	476
12.....	478
Highways, new.....	478
land taken for.....	484
watering.....	487
paving.....	489
macadamizing.....	495
grading for concrete on.....	502
scavenger teams.....	504
sweeping.....	506
lighting.....	508
bridges.....	510
city teams.....	514
sewers and drains.....	529
Health department.....	534
Hospital, Women's Aid and Relief.....	633
Elliot, free beds.....	633

Highway districts, reports of surveyors	164-194
Hydrants, location of	111-123
Health, board of, report of	333
Hallsville schoolhouse	591
Hospitals, churches, etc., exempt from taxation	646-657

I

Interest	422
Incidental expenses	434
Indigent soldiers	632
Inspector, milk, report of	257
Inventory of assets	667-675
Interest, annual charge, bonded debt	663

L

Loan, temporary	426
Land taken for highways	434
Lighting streets	508
Library, city	559
Location of electric lights	365-373
of gas-lights	373-375
of oil lamps	375-376
List of churches, etc., exempt from tax	648
of city officials	3-25

M

Mayor's incidentals	450
Macadamizing streets	495
Militia	636
Milk inspector, report of	257
Marshal, city, report of	265
Municipal receipts and expenditures	416-422
Manufacturing property exempt from taxation	658

N

New highways	478
schoolhouse, Hallsville	591

O

Officials, city, salaries of	451
Order to print forty-seventh annual report	2
Organization of board of water commissioners	28-9-10
Overseers of the poor, report of	247
Oil lamps, location of	375

Organization of school board for 1892.....	13-318
Orders and resolutions	683
Order for an artesian well.....	683
to purchase land for a hose-house in South Manchester	683
relating to patrol and ambulance wagon.....	683, 684
to purchase horse for the fire department.....	684, 699, 711, 713
to purchase horse, wagon, and necessary fittings for engineer's department.....	684
to erect lamp posts.....	685
to assign street numbers.....	685
to erect fountain, Lake avenue and Elm street	685
relating to appointment of deputy treasurer.....	686
authorizing detail of an officer as houseman	686
relative to names of schoolhouses.....	686
establishing grades.....	690, 700, 715, 716
relating to plans and estimates for Second-street bridge..	692
to purchase settees for commons.....	692
to build Grove street	692
relating to visit of fire department committee to Boston	693
to build Belmont street.....	693
to build Bay street.....	694
to purchase aerial ladder truck.....	693
relative to purchase of shade trees.....	694
relative to contract for sewer pipe	694
to revise and print city ordinances.....	694
to build Salmon street.....	695
to purchase two carts for street department	695
to build Summer street.....	695
to build culvert on Cemetery brook.....	696
to build Hall street	696
to build Elm street from Baker street southerly.....	697
relating to retaining horses at fire stations.	696
relating to care of superintendent's team, district No. 10	697
to erect watering-trough.	697
to build Cartier street.....	697
to build Green street	698
to concrete Union street, south side Concord street to south side Hanover street.....	698
to erect electric lights.....	698, 705, 715, 720
to build certain streets.....	699, 704, 709, 714
to macadamize Maple street from Lake avenue to Merrimack street	700
to purchase transit for engineer's department.....	700
to pave Granite street from river bridge to canal bridge	700
to concrete Pine street from Lake avenue to Cedar street.....	701
to erect lamp posts and electric lights ..	701
to build Page street.....	701
to build certain sewers	702, 705, 712, 713, 715, 719
to purchase additional land for Pine Grove cemetery.....	703
relating to motive power of the Manchester Street Railway.....	703
relating to addition to Goffe's Falls schoolhouse	704-709
to purchase safe for tax collector and treasurer	704
relating to Elliot hospital.....	709

Order to concrete certain streets	708, 710, 714, 718
to purchase pumps for artesian well at city farm	710
to purchase stone for macadamizing	710
to remove trees in Massabesic street	711
to purchase two drinking fountains	711
to macadamize Central street	712
for street signs	712
relating to sale of Park-street schoolhouse	713-714
establishing ward-rooms	716
to remove watering-trough at corner of Hanover and Hall streets	718
to change the grade of Riddle street	718
to purchase steam fire engine and combination chemical engine	719
relating to pay of election officers	720

P

Payment of funded debt	423
Printing and stationery	430
Paving streets	489
Printing and advertising	549
Police department	579
Pine Grove cemetery	609
Paupers off the farm	619
Property account, real and personal	667-675
Public buildings occupied by private parties	664-666
Park, Derryfield	616
Stark	608
Parsonages, valuation of, exempt from taxation	646-657

Q

Quotations from miscellaneous sources	385-401
---	---------

R

Reserved fund	423
Repairs of schoolhouses	538
Rooms, care of	554
Receiving tomb	616
Report of Board of Water Commissioners	29
Superintendent of Water-Works	31
City Engineer	127
Highway District Surveyors	164-194
Chief Engineer Fire Department	65
Trustees of City Library	197
Sub-Trustees of Valley Cemetery	231
Pine Grove Cemetery	229
Treasurer of Cemeteries	227
Trustees of Cemetery Fund	225
Overseers of the Poor	237
Joint Standing Committee on City Farm	243

Report of City Solicitor.....	249
Milk Inspector.....	257
City Marshal.....	265
School Committee.....	273
Superintendent.....	388
Board of Health.....	333
Repairs of buildings.....	587
Real estate owned by the city.....	667-675
Real property, exempt from taxation, other than public property.....	646-657
Rules, etc., relating to bills against the city (auditor's department).....	676-679
Receipts and expenditures, 1890, 1891, and 1892.....	422
Report of city auditor.....	405
treasurer.....	410
Receipts and expenditures, municipal, for 1892.....	416
Report of city physician.....	255
Resolutions and orders of the city councils.....	683
raising money and making appropriations for 1892.....	637
Résolution relating to discontinuance of a part of Old Falls road.....	687-707
relating to temporary loan.....	688
exempting Elliott Manufacturing Co. from taxation.....	688
adopting a plan for streets at West Side.....	689
discontinuing part of Cartier street.....	690
relating to increase in amount of cemetery bonds.....	706
relative to plan of Stark park.....	706
relating to Mast street.....	707
relating to Manchester Steam Company.....	708
relating to exemption of Kennedy Land Co. from taxation.....	721
relating to exemption from taxation of Josselyn & Seavey.....	721
relating to death of John Henry Schimmel.....	722
relating to death of Andrew J. Dickey.....	723

S

Second-street bridge.....	530
Salaries of city officials.....	451
Scavenger teams.....	504
Street sweeping.....	506
Sewers and drains.....	520
School department.....	318
Schoolhouses, repairs of.....	538
Supplies and furniture.....	544
Stationery and books.....	548
Salaries, teachers'.....	557
School, evening, mechanical drawing.....	557
Stark park.....	608
Soldiers, indigent.....	632
State tax.....	637
Solicitor, city, report of.....	249
School committee, report of.....	273
superintendent's report.....	388
Statement of bonded debt.....	662
total taxation for 1892.....	642
public buildings occupied by private parties.....	664-666

School statistics	304
attendance.....	307
Schoolhouse, Hallsville.....	591
addition to Goffe's Falls.....	593
Schoolhouses, parochial, and seminaries of learning.....	648
Summary of city debt.....	663
Street lighting, electric, in American cities.....	377

T

Temporary loans	426
Text-books, free.....	558
Teachers' salaries.....	557
Tomb, receiving.....	616
Taxes, abatement of.....	636
Tax, state.....	637
county	637
Treasurer, city, report of.....	410
Taxation.....	637-658
appropriations for 1892.....	637
exemption.....	646-657
by board of assessors.....	641
statement of total.....	647
table of taxes due and uncollected.....	643
valuations from 1846 to 1892, inclusive.....	644
settlement of tax collector's account to June 1, 1892.....	644
Teams, city.....	514
Tabular statement of receipts and expenditures.....	422
The Path of the Pestilence.....	302

V

Valley cemetery.....	613
Valuation and taxes.....	642

W

Watering streets.....	487
Women's Aid and Relief Hospital.....	633
Water-works, superintendent's report.....	31
commissioners' report.....	29
construction account.....	593
repairs account.....	597
current expenses.....	602
Ward room and engine-house (ward 9).....	593



