

oftener if directed, all accidents by fire which may happen within the city, with the causes thereof, the number and description of the buildings destroyed or injured, and the amount of loss and insurance on the same, together with the names of owners or the occupants, and shall make returns as required by the Laws of 1889, chapter 84, and entitled: "An act in relation to returns and statistics of fires." He shall visit each department house as often as practicable, and inspect the men, the books of the house, and see that the quarters are properly conducted and in good order. He shall have the power to suspend any officer or member of the department for insubordination, disorderly conduct or neglect of duty, said suspension to continue pending the action of the mayor and aldermen. The chief engineer shall examine all places where shavings and other combustible materials may be collected or deposited, and cause the same to be removed by the tenants or occupants of such places, or at their expense, whenever in his opinion such removal is necessary for the security of the city against fires.

SECT. 5. In the absence of the chief engineer, the next assistant engineer in rank, who may be present, shall have the powers and perform the duties of the chief engineer and the seniority in rank of the engineers shall be determined by the board of engineers at their first meeting.

SECT. 6. The foreman of each engine, hose, and hook and ladder company, immediately after every fire at which said company may have attended, shall examine into the condition of the fire apparatus belonging to his respective company, and report any deficiency which may exist to the chief engineer. He shall keep, or cause to be kept by the clerk of his company, exact rolls, specifying the time of admission, discharge, and age of each member, and accounts of all city property entrusted to the care of the several members, and of all cases of absence and tardiness, in a book provided for that purpose by the city, which rolls and

record books are always to be subject to the order of the chief engineer and mayor. They shall also make, or cause to be made, to the chief engineer, true and accurate returns of all members, with their ages, and of the apparatus entrusted to their care, whenever called upon so to do.

SECT. 7. The foreman of each company shall, under the direction of the chief engineer, have charge and management of his company at fires; the assistant foreman shall assist the foreman in the discharge of his duties, and act as clerk of the company, and in the absence of the foreman assume his authority. The foreman and assistant foreman shall be appointed by the chief engineer.

SECT. 8. The stewards of the Alert and Good Will Hose Companies shall act as drivers of hose carriages, take charge of and properly care for and exercise the horses used by each company. They shall be permanently engaged and devote their whole time to the department, and sleep in their respective hose houses at night; and for the proper execution of all duties required of them shall be subject to the direction of the chief engineer.

SECT. 9. It shall be the duty of every engine, hose, and hook and ladder company, to have its engine, hose and other apparatus cleaned, washed, oiled, reeled and housed immediately after its return from any fire or service, and at all times to maintain the same in good condition, and the members of the several companies shall perform any necessary duties which the chief engineer or their respective foreman may direct.

SECT. 10. All members of the department when on duty shall wear some suitable badge, to be designated by the board of engineers. The chief and permanent members shall wear at all times when on duty the regulation parade uniform worn by the fire department.

SECT. 11. The pay-rolls for the board of engineers and the several fire companies shall be made up by the chief

and clerk of the board of engineers semi-annually, on the first day of January and July. Foremen and clerks of companies will forward their pay-rolls to the board of engineers for approval and after the action of said engineers and the approval of the city auditor and the committee on accounts and claims, said pay-rolls shall be passed over to the city tax collector, under whose sole direction all sums for services of call firemen shall be disbursed.

SECT. 12. No charge for extra services will be allowed any member of the department unless upon an order of a member of the board of engineers.

SECT. 13. No engine, hose, or hook and ladder carriage shall be taken to a fire out of the city without permission from the chief engineer, except steamer Pioneer, which may be taken to any fire in the village of Penacook, nor shall any apparatus of the fire department be taken from the city except in case of fire, without permission from the board of mayor and aldermen; and in sending any apparatus to aid in extinguishing fires in neighboring localities, the chief in all cases will authorize his assistant next in rank available to take charge of the direction of such apparatus, and not allow any fireman, at such an emergency, to leave the city, except such a number as is actually required to man the apparatus, and no member to leave without permission or direction from the chief engineer.

SECT. 14. It shall be the duty of engineers and firemen, whenever there is an alarm of fire in the city, to repair immediately to the place of such fire, wearing a suitable badge, and the engineers shall take proper measures that the several engines and other apparatus be arranged and duly worked for the speedy and effectual extinguishment of the fire. The engineers shall inspect and make themselves familiar with all shops, hotels, tenement blocks, and all public buildings, halls, churches, schoolhouses and asylums once in each six months and study the location of all hydrants

and reservoirs in the city, and generally inform themselves in all matters pertaining to their duties as engineers. No engineer shall interfere with or attempt to give orders relative to the location or use of a line of hose, when he has ascertained that another has command of it, unless by consent of the engineer in command of it, or by orders of the officer in command of the fire; and it shall be his duty to inquire if there is an officer in charge.

SECT. 15. For each absence from fire, or neglect of duty, the chief engineer, the assistant engineers, and engineers of steamers shall be fined three dollars, and each other member of the department one dollar; provided, however, that any fireman liable as above may in case of sickness have power of substitution by giving notice, each assistant engineer to the chief, each foreman to an engineer, and each other member to the foreman of his company. All fines shall be paid to the clerks of respective companies at the first regular meeting after they are incurred. The clerks of companies shall disburse the fines to substitutes answering for absent members in cases where there were substitutes. In cases where there were no substitutes the fines shall be paid to the city.

SECT. 16. Any volunteer company using the apparatus of the city at any fire shall be under the control and command of the chief engineer and his assistants, agreeably to the foregoing provisions of this chapter.

SECT. 17. The department shall appear for public parade, drill and inspection at such times as the chief engineer and committee on fire department shall order, for which purpose three hundred dollars can be expended annually. The companies in Wards 1, 2 and 3 will attend by invitation and voluntarily. Each company in the department under the direction of the chief engineer or assistants shall take out their respective engines and apparatus for exercise and drill as often as he shall direct, such exercise and drill

to take place in public, not oftener than once a month, and at least once in two months, between the first of April and November.

SECT. 18. The engineers shall have control of all persons appointed to serve in any company of the fire department and power to direct and control the labor of all persons present at any fire. An engineer may and shall cause any fire deemed by him to be dangerous in any place to be extinguished or removed.

SECT. 19. The engineers may establish such regulations respecting the kindling, guarding and safe-keeping of fires and for the removal of shavings and other combustibles from any building or place, as they shall think expedient. Such regulations shall be signed by a majority of the engineers. Such regulations shall be approved by the mayor and aldermen, recorded by the city clerk, and copies attested by him posted up in two or more places in the city thirty days, when they shall take effect. Penalties not exceeding twenty dollars for each offense may be prescribed by the engineers for the breach of such regulations, and such regulations shall remain in force until altered or annulled.

SECT. 20. The board of engineers may from time to time make and enforce such regulations for the government of the department as may be deemed proper, subject to the approval of the board of mayor and aldermen.

SECT. 21. If any member of any of the several companies shall wilfully neglect or refuse to discharge his duty, or shall be guilty of disorderly conduct or disobedience to any officer or to any engineer, he shall for any such offense be forthwith dismissed from the department by direction of the chief engineer. No person shall be a member of, or serve in, the fire department, who is under the age of twenty years, and no person whose occupation is carried on

outside the city shall be appointed a member of the fire department.

SECT. 22. All applicants for membership shall be nominated by the chief engineer, and shall receive pay and be considered members of the department from the date of their confirmation by the board of mayor and aldermen.

No person shall hereafter be appointed to any position in the fire department unless and until the committee on fire department shall have certified in writing to the board of mayor and aldermen that such person has been examined by them, or under their supervision, and is in their opinion qualified to perform the duties of the position to which he is nominated.

No officer or member of the permanent, or officer of the call, force shall attend any political convention as a delegate, distribute tickets at any election, or take any part whatever in political matters other than to exercise the right of suffrage, and no political or religious discussion shall be permitted in any of the department houses.

SECT. 23. The chief engineer shall have the care and management of the rooms, apparatus, machinery, wires, poles and signal boxes connected with the fire-alarm telegraph. He shall prepare rules and directions for giving alarms of fire through the telegraph. He shall have the superintendence, and under the direction of the joint standing committee on fire department have control of the several stations, the apparatus, the furniture therein, and all other property appertaining to the department. He shall, with the assistance of the permanent men at the Central Station, make the necessary repairs and take care of the fire-alarm system, including the batteries, all alarm boxes, and everything pertaining to the fire-alarm system. He shall personally be able to master the fire-alarm in every particular, and every permanent man at the Central Station shall be obliged to understand the fire-alarm system, in order that

the chief engineer may call upon any of them to attend to and repair any part of the same. This provision shall not be construed to prevent the chief engineer from employing extra linemen when necessary, or from acting promptly in any emergency.

SECT. 24. Permanent officers and men of the department shall be entitled to a vacation without loss of pay of fourteen days in each year. In addition they shall be entitled to be off duty without loss of pay two days in each month, such two days not to be taken in the same week. On the weeks that they are not off duty for a day, under the above provision, they shall be entitled to be off duty for one night without loss of pay. All vacations and absences from duty under the above to be under the direction of the chief engineer.

SECT. 25. The joint standing committee on fire department, subject to the board of mayor and aldermen, shall by themselves or agent purchase all supplies in connection with the fire department, and direct all repairs of houses and apparatus; and all bills contracted for the department must receive their approval before being passed on by the committee on accounts and claims. They shall hold stated meetings at least once each month at the Central Fire Station, and all communications to the city government from the fire department must come through said committee, and annually at the call of the finance committee, in connection with the chief engineer, they shall make recommendations as to the amount of appropriations the wants of the department will require for the coming year.

SECT. 26. The city marshal and regular police officers shall have in charge all matters relating to the removal and protection of personal property endangered by fire, and any person entering a building or removing property contrary to the orders of the city marshal or such police officers, shall be fined five dollars; and in the absence of firemen at fires,

from their respective department houses, the policemen in that vicinity will take charge of said houses.

SECT. 27. It shall be the duty of the chief engineer to cause all snow and ice or other obstructions to be removed from and around all fire hydrants owned by the city, so that at all times the fire department can make immediate connection of the hose to the hydrants.

SECT. 28. The annual pay of the members of the fire department shall be as follows, and in full for all services: Chief, twelve hundred and fifty dollars per annum and house rent; permanent force at Central Fire Station, seven hundred and twenty-eight dollars each; drivers at Good Will and Alert Hose houses, seven hundred and twenty-eight dollars each per annum, paid monthly; assistant engineers, within the precinct, one hundred and twenty-five dollars each; engineers of steamers, within the precinct, one hundred and fifteen dollars each; foremen of companies, within the precinct, each ninety dollars per annum; assistant foremen of companies, within the precinct, eighty-five dollars per annum; members of steamer, hose and hook and ladder companies, within the precinct, and house man at Central Fire Station, eighty dollars per annum; outside the Precinct, engine companies Nos. 2 and 3, two hundred and forty dollars each, and Pioneer Steamer Company, No. 3, five hundred dollars, said sums to be divided among the members as each company shall direct; engineer of steamer at Penacook, seventy-five dollars per annum; assistant engineer at Penacook, twenty-five dollars; assistant engineer at East Concord, fifteen dollars; and assistant engineer at West Concord, twenty dollars.

Section 28 amended. Pay of members of Chemical Company advanced to eight hundred dollars. August 15, 1907.

Section 28 amended. Pay of outside the precinct companies advanced as follows: Pioneer Steamer Company, to six hundred dollars per annum; Engine Company, No. 3, to three hundred and forty dollars per annum. June 13, 1910.

Pay of the East Concord branch of the service advanced by ordinance as follows: Assistant engineer, to twenty dollars per annum; Old Fort Engine Company, No. 2, to three hundred and forty dollars per annum; steward of Old Fort Engine Company, to thirty dollars per annum. September 14, 1910.

Pay of Chemical Company advanced by ordinance to nine hundred and twelve dollars. Pay of other permanent men advanced to eight hundred and forty dollars. April 10, 1911.

SECT. 29. The several engineers residing in Wards 1, 2 and 3 shall have the entire care and control, under the direction of the chief engineer, of the buildings and appurtenances occupied in part by the fire department situated in said wards, respectively, to whom all applications for the use of the halls, or any other part of such building, shall be made. Said engineers may severally appoint janitors, who shall serve under the exclusive direction of the engineer having the care and control of the buildings where said janitor shall be appointed. Each of said engineers shall annually, in the month of December, render a detailed statement, in writing, to the mayor and aldermen, of all receipts and expenditures for the preceding year on account of such buildings.

SECT. 30. Stewards for the Pioneer Steamer Company and Engine Companies Nos. 2 and 3 shall be appointed by the mayor and aldermen, and shall receive for all services performed by them in that capacity the following sums: For Pioneer Steamer Company, thirty dollars per annum, and when performing the duties of janitor of the building an additional sum of forty-five dollars per annum; and for steward of Engine Company No. 2, thirty dollars per annum; and for steward of Engine Company No. 3, thirty dollars per annum. No steward shall be allowed to purchase supplies for such building, or for the department, unless by the authority and direction of the committee on fire department; and in no case shall he have any care or control of the building or its appurtenances occupied by the company of which he is a mem-

ber, except in the immediate service of the company, unless he shall be appointed janitor thereof, when he shall be under the direction of the engineer, as provided in the foregoing section.

SECT. 31. The permanent men and horses at all of the fire stations in Concord shall at all times be on duty at their respective stations to attend to fire-alarm calls; and neither the permanent men nor the permanent horses connected with the fire department shall engage in any work for any other department of the city.

The men at the different fire stations shall do such work in connection with the station and apparatus as the chief engineer or his assistants may direct. All permanent men shall lodge in their respective stations (except chief), and in all cases of absence a substitute must be furnished; and in all cases when any extra service is required, the chief, with the sanction of the committee on fire department, shall have power to hire the same; the chief may also increase as far as possible the number of call men that wish to lodge at any fire station, subject to the regulations of the fire department. The chief engineer shall be furnished with a horse and wagon, to be maintained by the city, for his use at all times.

SECT. 32. All alarms for brush or forest fires shall be responded to by members of the fire department under such rules and regulations as shall be prescribed by the chief engineer.

SECT. 33. All ordinances and parts of ordinances inconsistent with this ordinance are hereby repealed; but such repeal shall in no wise revive or put in force any ordinance heretofore repealed, and this ordinance shall take effect upon its passage.

ADDITIONAL REGULATIONS.

ARTICLE 1. Any engine or hose company running out a line of hose from a hydrant or steamer shall be entitled to the pipe, although the hose of other companies may be attached, in order to reach the fire. And any company coming to a fire, and finding an incompleated line of hose laid out from a hydrant or steamer, shall attach to and lengthen out such line, in lieu of laying a line of its own.

ART. 2. When two or more engine companies are playing in a continuous line, the pipe shall belong to the company attaching to hydrant or steamer as provided in the foregoing article; but any company furnishing the entire line, and receiving water from a steamer, the pipe shall belong to such company so receiving.

ART. 3. Hose companies shall attach first lines to high pressure hydrants where accessible; steamers attaching to those of low pressure, or reservoir.

ART. 4. No company shall take possession of a hydrant or reservoir unless their hose and apparatus for attaching to the same are at hand and ready for use.

ART. 5. In proceeding to, working at, or returning from fires, noisy demonstrations are strictly prohibited, and it is required of officers of companies to maintain perfect order and decorum in their respective commands during all such service.

ART. 6. In case of fire the foreman first arriving shall be in command until the arrival of an engineer.

ART. 7. Drivers are strictly enjoined, in proceeding to a fire, to use the utmost care and caution consistent with promptness. Racing between companies is forbidden under any circumstances. Any collision or casualty occurring to horses or apparatus will be considered a sufficient cause for the suspension of the driver in charge at the time.

ART. 8. Fire hats are furnished by the city for the pro-

tection and identification of the firemen, and they must be worn at all fires except in the severest weather, when caps may be worn.

ART. 9. While attending fires it shall be the duty of members of the department, when not performing active service, to concentrate about their respective pieces of apparatus.

ART. 10. All engine and hose companies responding to second or general alarms will connect, but will not lay their lines until they have reported to the officer in command for orders.

ART. 11. The wearing of badges shall not be regarded by members of the department as conveying to them the privilege of free access to premises after fire has been extinguished.

ART. 12. All members of the department shall address all officers by their respective titles while on duty at fires.

ART. 13. The roll of each company shall be called as soon as the apparatus is housed, and no member will be excused except in case of sickness. Rolls must be called after every alarm. No officer or member will be marked present on the company roll unless present at fires and returns to house with apparatus, unless excused by an engineer.

ART. 14. Each company shall be allowed three substitutes, except Hook and Ladder Company No. 1, which shall have five, to be approved by the chief engineer.

ART. 15. All orders issued by the chief or an assistant engineer shall be promptly obeyed. At all fires occurring in the night, the chief engineer shall be identified by a red light, assistant engineers by blue lights.

ART. 16. Members of the department are expected to cheerfully comply with all rules and regulations which are adopted or which may be adopted. Captains will be held responsible for all lack of promptness and efficiency in their commands.

ROLL OF THE FIRE DEPARTMENT, 1910.

Permanent Chief Engineer.

WILLIAM C. GREEN, Office, Central Fire Station.

Assistant Engineers.

PRECINCT.

JOHN J. McNULTY, 1st Asst., Machinist, 35 West Street.
WALTER J. COFFIN, 2d Asst., Shipping clerk, 63 Pleasant Street.
JOHN J. McNULTY, Clerk of the Board.

WARD 1.

FRED M. DODGE, Electrical Inst. maker, 61 Merrimack Street.

WARD 2.

ELBRIDGE EMERY, Butcher, Potter St., East Concord.

WARD 3.

GEORGE W. KEMP, Overseer, 443 No. State St., West Concord.

KEARSARGE STEAM FIRE ENGINE AND HOSE COMPANY, NO. 2.

OFFICERS.

SYLVESTER T. FORD, *Captain.* J. EDWARD MORRISON, *Lieutenant and Clerk.*
JAMES H. SANDERS, *Engineer and Treasurer.*

MEMBERS.

Badge

Nos.	Names.	Occupations.	Residences.
1	Sylvester T. Ford,	Moulder,	41 South Main Street.
2	J. Edward Morrison,	Machinist,	8 Thorndike Street.
3	James H. Sanders,	Carriage painter,	45 Perley Street.
4	Thomas J. Morrison,	Carriage painter,	32 Downing Street.
5	Charles Powell,	Clerk,	75 Centre Street
6	George B. Davis,	Carriage painter,	3 South Main Street
7	Herbert M. Sanders,	Collector,	11 Chapel Street.
8	Harry P. Blake,	Machinist,	8 Thorndike Street.
9	Harry L. Messer,	Machinist,	3 Broadway.
10	W. C. B. Saltmarsh,	Trimmer,	5 Leighton Avenue.
11	H. C. Taylor,	Machinist,	81 South State Street.
12	George L. Livingston,	Gas inspector,	38 Jackson Street.
13	G. C. Robinson,	Substitute driver,	Central Station.
14	E. C. Simpson,	Substitute driver,	Central Station

EAGLE STEAM FIRE ENGINE AND HOSE COMPANY, NO. 1.

OFFICERS.

J. C. MCGILVRAY, *Captain*.D. J. ADAMS, *Lieutenant and Clerk*.*Badge*

MEMBERS.

<i>Nos.</i>	<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
18	John C. McGilvray,	Jig-sawyer,	9 Pearl Street.
19	David J. Adams,	Janitor,	107 North Main Street.
20	Charles H. Sanders,	Machinist,	11 Chapel Street.
21	Orrin C. Hodgdon,	Engineer,	31 Beacon Street.
25	Willis J. Sawyer,	Machinist,	43 Thorndike Street.
23	John M. Inman,	Carriage painter,	16 Wall Street.
24	John B. McLeod,	Electrician,	Colonial Block.
22	Eli Langlois, Jr.,	Painter,	5 Perry Avenue.
26	Charles W. Bateman,	Plumber,	60 Centre Street.
27	W. W. Brown,	Clerk,	5 Union Street.
28	F. H. Fowler,	Electrician,	34 North Spring Street.
29	Daniel J. Brennan,	Electrician,	26 North Main Street.
30	A. B. Smart,	Permanent driver,	Central Station.

GOVERNOR HILL STEAMER, NO. 4.

RELIEF ENGINE.

Badge

<i>Nos.</i>	<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
34	Elmer H. Farrar, <i>Engineer</i> ,	Machinist,	78 South State Street.
35	Henry O. Powell, <i>Fireman</i> ,	Blacksmith,	11 Thompson Street.

ALERT HOSE COMPANY, NO. 2.

OFFICERS.

GEORGE L. OSGOOD, *Captain*.E. E. SABEN, *Lieutenant and Clerk*.*Badge*

MEMBERS.

<i>Nos.</i>	<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
36	G. L. Osgood,	Clerk,	9 Thompson Street.
37	E. E. Saben,	Car-builder,	88 North State Street.
38	C. C. Chesley,	Builder,	11 Prince Street.
39	C. J. French,	Mayor,	5 Perkins Street.
40	C. H. Rowell,	Builder,	145 North Main Street.
41	J. H. Brunelle,	Blacksmith,	43 Tremont Street.
42	F. P. McKenna,	Clerk,	13 Franklin Street.
43	J. M. Davis,	Blacksmith,	4 Tahanto Street.
44	J. Winnistrom,	Lineman,	145 North Main Street.
45	M. G. Davis,	Builder,	6 Beacon Street.
46	F. H. Silver,	Permanent driver,	Alert Station.

GOOD WILL HOSE COMPANY, NO. 3.

OFFICERS.

JOHN C. MILLS, *Captain.* HIRAM T. DICKERMAN, *Lieutenant and Clerk.*
 GEORGE H. SAWYER, *Treasurer.*

MEMBERS.

<i>Badge Nos.</i>	<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
50	John C. Mills,	Blacksmith,	34 Downing Street.
51	Hiram T. Dickerman,	Painter,	36 Broadway.
52	George H. Sawyer,	Blacksmith,	5 Allison Street.
53	Frank S. Putnam,	Packer,	113 South State Street.
54	Jasper R. Mudgett,	Wood-worker,	98 South State Street.
55	Henry H. Ash,	Machinist,	23 ½ Perley Street.
56	Edgar D. Clark,	Machinist,	125 South State Street.
57	Albert W. Thompson,	Janitor,	114 South State Street.
58	Harry L. Peacock,	Painter,	36 Warren Street.
59	Herbert F. Ferrin,	Electrician,	104 South State Street.
60	William T. Happny,	Permanent driver,	Good Will Station.

CITY OF CONCORD HOOK AND LADDER COMPANY, NO. 1.

OFFICERS.

WILL A. KING, *Captain.* ED. E. LANE, *Lieutenant and Clerk.*

MEMBERS.

<i>Badge Nos.</i>	<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
64	Will A. King,	Machinist,	38 Franklin Street.
65	Ed. E. Lane,	Wood-worker,	5 Fremont Street.
66	Frank T. Bean,	Wood-worker,	Odd Fellows' Home.
67	Benjamin Ouillette,	Wood-worker,	10 Jefferson Street.
68	Henry V. Tittmore,	Teamster,	57 Dunklee Street.
69	Lucius D. Caldon,	Wood-worker,	13 West Street
70	George W. Grover,	Wood-worker,	29 Thorndike Street.
71	Daniel Crowley,	Coachman,	130 Warren Street.
72	Stephen P. Foster,	Wood-worker,	14 Wall Street.
73	Sam B. Morgan,	Wood-worker,	10 Avon Street.
74	Bion W. Hall,	Carpenter,	15 Humphrey Street
75	Edwin H. French,	Wood-worker,	100 Warren Street.
76	D. Charles Parker,	Renovater,	63 South Street.
77	Ned E. Herrin,	Carpenter,	Ins. Blk, School Street.
78	Carmi L. King,	Machinist,	28 North Main Street.
79	Louis Cote,	Carpenter,	68 South Spring Street.
80	Clarence L. Clark,	Clerk,	71 South Street.
81	Bert J. Heath,	Wood-worker,	92 West Street.
82	James F. Liberty,	Carpenter,	9 Harvard Street.
83	Guy C. Richards,	Machinist,	52 Beacon Street.
84	F. C. Young,	Substitute driver,	Central Station.

CHEMICAL ENGINE COMPANY, NO. 1.

<i>Badge Nos.</i>	<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
91	M. S. Wakefield,	Permanent engineer and driver,	Central Station.
92	C. G. Pinkham,	Permanent assistant engineer,	Central Station.

PIONEER STEAM FIRE ENGINE COMPANY, NO. 3.
Penacook.

OFFICERS.

HENRY ROLFE, <i>Captain.</i>	FRANK P. ROBERTSON, <i>Lieut., Clerk and Treas.</i>
WALTER H. ROLFE, <i>Engineer.</i>	JOHN B. DODGE, <i>Steward.</i>

MEMBERS.

<i>Badge Nos.</i>	<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
100	Henry Rolfe,	Highway agent,	26 Penacook Street.
101	Frank P. Robertson,	Machinist,	6 Church Street.
102	Walter H. Rolfe,	Foreman,	37 Centre Street.
106	Fred H. Morrill,	Sash-maker,	45 Summer Street.
109	Alfred Beddow,	Stationary engineer,	44 Elm Street.
111	William H. McGirr,	Second hand,	36 Charles Street.
107	Joseph A. York,	Moulder,	20 Main Street.
110	John B. Dodge,	Janitor,	59 Merrimack Street.
113	Peter A. Keenan,	Table-maker,	92 High Street.
117	Fred J. Guild,	Electrician,	46 Summer Street.
118	George A. Griffin,	Painter,	15 Washington Street.
103	Harry F. Jones,	Teamster,	7 Washington Street.
123	William Corbett,	Axle-maker,	44 Centre Street.
108	Albert S. Andrews,	Wine clerk,	14 Summer Street.
104	Frank E. Goodwin,	Teamster,	19 Washington Street.
120	Frank D. O'Brien,	Expressman,	19 Church Street.
124	Delmar R. Jones,	Teamster,	123 Merrimack Street.
114	Henry E. Templeton,	Wood-worker,	41 Washington Street.
125	Frank C. Rocheleau,	Machinist,	19 Merrimack Avenue.
112	Ambrose Sweet,	Wine clerk,	67 Washington Street.
121	Clayton S. 'Ogden,	Proprietor bowling alley,	17 South Main Street.
119	William H. Holbrook,	Laborer,	9 Webster Street.

OLD FORT ENGINE COMPANY, NO. 2.

East Concord.

OFFICERS.

GEORGE O. ROBINSON, *Captain.*
C. E. ROBINSON, *Lieut. and Clerk.*

JOHN C. HUTCHINS, *Treasurer.*
CHARLES P. WHITE, *Steward.*

MEMBERS.

<i>Names.</i>	<i>Occupations.</i>	<i>Residences.</i>
George O. Robinson,	Water-dealer,	Penacook Street.
C. E. Robinson,	Clerk,	Penacook Street.
John C. Hutchins,	Engineer,	Penacook Street.
William L. Batchelder,	Farmer,	Potter Street.
Samuel G. Potter,	Milk-dealer,	Appleton Street.
Charles P. White,	Janitor,	Pembroke Street.
William E. Virgin,	Carpenter,	Penacook Street.
Rufus C. Boynton,	Belt-maker,	Penacook Street.
Fred S. Farnum,	Carpenter,	Penacook Street.
Shad Cate,	Farmer,	Pembroke Street.
Ross W. Cate,	Horseshoer,	Penacook Street.
Herbert Knowles,	Carpenter,	Shawmut Street.
James Cox,	Section foreman,	Penacook Street.
Daniel Lewis,	Driver,	Shawmut Street.
Parker French,	Janitor,	Penacook Street.
Westley Field,	Milkman,	Penacook Street.
John W. Sanborn,	Farmer,	Penacook Street.
Walter C. Sanborn,	Wood-worker,	Portsmouth Street.
Arthur P. Swain,	Moulder,	Penacook Street.
Michael Lacroix,	Blacksmith,	Eastman Street.
Clarence Tibbetts,	Clerk,	Penacook Street.
Reuben L. Cate,	Carpenter,	Cemetery Street.
John T. Cate,	Carpenter,	Shawmut Street.
C. A. Chamberlin,	Farmer,	Shawmut Street.
William F. Paige,	Painter,	Shawmut Street.
Lloyd Virgin,	Carpenter,	Penacook Street.
Henry A. Newton,	Clerk,	Penacook Street.
Daniel W. Sanborn,	Machinist,	Shawmut Street.
Solon W. Cate,	Brakeman,	Penacook Street.
Thomas E. Chase,	Blacksmith,	Penacook Street.

POLICE DEPARTMENT.

REPORT OF CITY MARSHAL.

GENTLEMEN: I have the honor to submit to you the report of the police department for the year beginning January 1, 1911, and ending December 31, 1911.

ROSTER.

CITY MARSHAL.

George A. S. Kimball.

ASSISTANT CITY MARSHAL.

Charles H. Rowe.

CAPTAIN.

VICTOR I. MOORE.

SERGEANT.

Christopher T. Wallace.

REGULAR PATROLMEN.

Samuel L. Batchelder,	George H. Silsby,
Samuel Rodd,	Elmer J. Brown,
Irving B. Robinson,	Albert W. Braley,
Edward J. McGirr,	Harry L. Woodward,
Joseph E. Silva,	Fred N. Marden.

Janitor of Police Station, Charles W. Hall.

SPECIAL RESERVE OFFICERS.

CAPTAIN.

Thomas P. Davis.

Harry F. Jones,	W. A. Little,
Joseph A. Flanders,	Fred H. Clifford,
George G. Allen,	Alvin H. Urann,
Orrin H. Bean,	Fred S. Pendleton,
Charles E. Kelley,	Charles W. Hall,
Harper B. Giles,	George E. Drury,
	Walter H. Beane.

FINANCIAL STATEMENT.

Total receipts for fines and costs,	\$3,055.00
Total appropriation for 1911,	\$16,309.81
Special appropriation,	989.50
	<hr/>
Total amount expended for the year 1911,	\$17,299.31

DISBURSEMENTS.

Fuel for city and Penacook,	\$397.80
Helmets, caps and buttons,	68.75
Horse hire, city and Penacook,	220.00
Board and shoeing horse,	356.00
Ice,	6.87
Incidentals,	1,066.25
Salaries, regulars,	13,420.77
Salaries, specials,	971.26
Salary of janitor,	300.00
Lights, city and Penacook,	146.80
Water,	43.00
Telephone signal system,	164.32
Police commissioners,	137.49
	<hr/>
Total,	\$17,299.31

NUMBER OF ARRESTS AND CAUSES.

Whole number of arrests, including Penacook,	1,076
Whole number of arrests at Penacook,	79
Brought before the court,	692
Discharged by the court,	4
Discharged without being brought before the court,	384
Adultery,	1
Assault,	17
Breaking and entering,	2
Gambling,	11
Drunkenness, including Penacook,	708
Drunkenness at Penacook,	47
Non-support,	9
Evading railroad fare,	3
Fornication,	19
Insane,	20
Larceny,	23
Rude and disorderly conduct,	15
Safe-keeping,	189
Threatening to do bodily harm,	2
Refusing to send children to school,	3
Bastardy,	2
Keeping liquor for sale,	2
Cruelty to animals,	2
Fighting,	4
Using horse unfit for labor,	1
Over-speeding automobiles,	7
Obstructing an officer,	1
Riding bicycles on sidewalk,	1
Selling cigarettes to minor,	1
Running auto while intoxicated,	1
Running taxi without a license,	1
Runaway boys,	3
Committing a nuisance,	1

Arrested for out of town officers,	5
Present at gambling,	1
Escaped from Industrial School,	2
Insulting an officer,	1
Gross conduct,	1
False pretense,	2
Firing cannon in street,	1
Firing shotgun in street,	1
Begging,	1
Burglary,	1
Abusing family,	1
Attempting to rape,	1
Carrying concealed weapons,	3
Escaped insane,	1
Escaped from House of Correction,	1
Failing to comply with the pure food law,	2

MISCELLANEOUS.

Whole number of lodgers, including Penacook,	1,426
Whole number of lodgers at Penacook,	431
Number of doors found open and secured, including Penacook,	147
Whole number of doors tried, including Penacook,	473,624
Number of doors tried at Penacook,	7,884
Number of doors found open and secured at Penacook,	22
Lost children returned to their parents,	8
Disturbance quelled,	57
Stray teams found,	2
Stray horses found,	3
Number of times ambulance used,	128
Number of duty calls rung in on police signal,	47,659
Accidents reported,	8
Dogs killed,	7
Bicycles found,	24

POLICE DEPARTMENT.

321

Dead bodies found,	3
Cases investigated by officers, including Penacook,	615
Cases investigated by officers in Penacook,	97
Defects in sidewalks and streets reported,	3
Dangerous dogs reported,	4
Dangerous wires reported,	6
Fire alarms rung in by officers,	2
Gas street lights reported out,	6
Horses found cast,	2
Lanterns placed at dangerous places,	12
Water leaks reported,	3
Lost dogs restored,	6
Runaway horses stopped by officers,	3
Street obstructions removed,	3
Assisted at accidents,	9
Assisted in cases of sickness,	119
Persons reported bitten by dogs,	6
Intoxicated persons helped home,	4
Lights reported out,	215
Number of officers attending fires, including Penacook,	118
Number of officers attending fires at Penacook,	10
Sick persons given aid at station,	8
Sick and injured persons assisted,	4
Bound over to the superior court,	18
Committed to jail,	12
Committed to Industrial School,	3
Committed to House of Correction,	226
Committed to New Hampshire State Hospital,	20
Number of fines paid,	280
Mittimus not to issue until called for,	164
Appeals,	1
Assistance rendered at drowning accidents,	4
Bail furnished,	6

LOCATION OF POLICE SIGNAL SERVICE BOXES.

- Box 1. Bridge Street and Stickney Avenue.
- Box 2. South Main and West Streets.
- Box 3. South Main and Concord Streets.
- Box 4. South Main and Pleasant Streets.
- Box 5. North Main and School Streets.
- Box 6. North Main and Park Streets.
- Box 7. North Main and Washington Streets.
- Box 8. North Main and Church Streets.
- Box 9. North State and Penacook Streets.
- Box 10. North State, opposite Cemetery.
- Box 11. West Concord.
- Box 12. Penacook.
- Box 13. Washington and Union Streets.
- Box 14. South, near Thompson Street.
- Box 15. South and Downing Streets.
- Box 16. White Park.

RECOMMENDATIONS.

Since the license law went into effect the business of this department has more than doubled, and during the summer months, owing to the vacations, we need more help; therefore, I hope that you will see the necessity of having at least two more officers appointed.

I consider a padded cell an absolute necessity for the safe confinement of the violently insane, and I earnestly recommend that one be constructed in our station.

CONCLUSION.

During the year this department has met with three serious losses in the deaths of Capt. Daniel S. Flanders and Officer Hoyt Robinson, both having served the city faithfully for many years. In the death of Edmund S. Cook,

our late city solicitor, we lost a good adviser and a staunch friend. Every member of this department sincerely mourns the loss of these men.

I thank the Honorable Mayor and Board of Aldermen for their kindness and support, also the judge of the police court and the city solicitor for their kind and courteous treatment. To the officers of the department I extend my gratitude for their hearty co-operation and the faithful performance of their duties.

Respectfully submitted,

GEORGE A. S. KIMBALL,

City Marshal.

REPORT OF CITY ENGINEER.

CITY ENGINEER'S OFFICE, CITY HALL,
CONCORD, N. H., December 31, 1911.

To the Board of Mayor and Aldermen:

In compliance with the ordinance creating this department, the nineteenth annual report showing the expenditures and operations of the engineering department for the year ending December 31, 1911, is herewith submitted:

Paid for engineer and assistants,	\$2,913.01
supplies,	114.13
car-fares and livery,	167.87
postage,	2.13
repairs,	24.55
express,	5.70
telephone, rental and tolls,	27.30
	<hr/>
	\$3,254.69
Paid for labor and supplies, assessors' maps,	995.05
	<hr/>
Total,	\$4,249.74
Appropriation,	\$4,175.00
Resolution,	74.74
	<hr/>
	\$4,249.74
Expended,	\$4,249.74

SEWERS.

The amount of money expended on construction and repairs will be found in the report made to the board of public works covering this field.

WATER-WORKS.

Together with the superintendent, I made a preliminary examination of the conditions about Penacook Lake, with reference to increased storage capacity, and secured data to show infringement of the city's rights by the steamboat company doing business on the lake.

STREETS.

Granite Street lay-out was changed to more nearly comply with the original petition.

South Pembroke Street was laid out and the lines definitely marked.

The above changes added no extra mileage to our highways, which remains the same as last year, viz.: 44.75 miles in the compact portion of the city, and 126.26 miles in the outlying districts, making a total of 170.01 miles of highways in the town.

Lines and grades were given for the macadam roadways in North Main Street, the Hopkinton Road and Pleasant Street, also for the gravel roadways on the Loudon Road and South Street, the new sidewalks and monthly measurements for new coal-tar sidewalks, with repairs to existing walks, were made, statements of quantities laid prepared and delivered to the superintendent of streets.

FIRE DEPARTMENT.

Plans showing the location of hydrants and fire-alarm boxes, both in the city proper and in Penacook, were brought up to date, blue prints made and delivered to the chief engineer of this department.

BUILDING PERMITS.

Together with the chief engineer of the fire department I have attended twenty-four hearings, on petitions for new buildings and for alterations to existing structures.

Twenty-six petitions were presented to us, two were withdrawn by the applicants and twenty-four granted.

CEMETERIES.

A survey was made and plan prepared showing the proposed addition to the cemetery on the Loudon Road.

In Blossom Hill Cemetery grading on the new block was completed, the lots laid out, plans made for the same, blue prints of which were given to the superintendent and filed in the deed books of the commissioners.

The deed books were brought up to December 31, 1911.

ASSESSORS' MAPS.

Much time has been spent on this work, with the result that the territory lying between the Merrimack River on the east, Hopkinton line on the west, Bow line on the south, the Contoocook River, the Borough Road and the Sewall's Falls Road on the North, has been covered and plans of the same will be ready for the assessors in April, 1912.

Few people realize the amount of detail in this work in looking up the titles, locating tracts lying off the highways, many of which are indefinitely bounded in loosely made deeds, and some of which have been handed down for generations without any settlement of estates.

To place the present owners requires much searching of the public records, but, when finally found is of material aid to the assessors as well as the general public.

The rapid accumulation of plans for this business seri-

ously cramps our small vault and some safe place for their storage should be provided.

We have now over thirty-nine hundred owners listed and their property shown on the plans. Many of these owners have several tracts of land and the above number does not indicate the total number of tracts shown.

We have copied the plans at the register of deeds office, showing the division of properties into house lots, so far as they pertain to Concord real estate.

We are continually adding to our list of owners who have neglected to return inventories, or have forgotten lands of value when the assessor came around. It would be impossible for any board of assessors to find all the lands without some plans and deeds to guide them. We believe that the money expended for this work will soon be returned to the city treasury in the shape of new taxable property brought to light.

The special appropriation for this work was \$1,000, of which amount \$995.05 was expended. The balance was carried to the engineering department.

The employees of the engineering department during the past season were: Fred W. Lang, principal assistant; Daniel H. B. Starr, assistant; John W. Raymond, I. F. Morrison, transitmen; Charles F. Pierce, Waldo H. Quimby, Robert N. Kennedy, Harold H. Betton, Earland B. Cook, George W. Burke and Arthur McCauley, rodmen.

MISCELLANEOUS.

Street lines and grades, for grading done by private parties, have been given on application.

Meetings of the Board of Aldermen, its committees and the Board of Public Works have been attended when requested and such information as this department had in its possession, or could acquire, was given. Plans and

estimates were furnished the different departments as needed.

The labors of the Board of Examiners of Plumbers and the Hydrant Commissioners will be found under their respective headings.

To the Mayor and the Board of Aldermen I wish to express my appreciation for many courtesies extended.

Respectfully submitted,

WILL B. HOWE,
City Engineer.

WATER DEPARTMENT.

1911.

BOARD OF WATER COMMISSIONERS.

CHARLES J. FRENCH, Mayor, *ex officio*.

EDSON J. HILL,	to March 31, 1915.
GEORGE D. B. PRESCOTT,	to March 31, 1915.
HARRY H. DUDLEY,	to March 31, 1914.
NATHANIEL E. MARTIN,	to March 31, 1914.
SOLON A. CARTER,	to March 31, 1913.
BURNS P. HODGMAN,	to March 31, 1913.
HENRY C. HOLBROOK,	to March 31, 1912.
FRANK P. QUIMBY,	to March 31, 1912.

SOLON A. CARTER, *President*.

EDSON J. HILL, *Clerk of Board*.

SUPERINTENDENT.

P. R. SANDERS.

CLERK.

ALICE G. COCHRAN.

FOREMAN.

JAMES T. DAVIS.

INSPECTOR.

HARRY E. STEVENS.

ENGINEER.

HENRY A. ROWELL.

CONCORD WATER BOARD.

Date of election and length of service of members.

Abraham G. Jones,*	<i>ex officio</i> , 1872—three months.
John M. Hill,*	1872-1878.
Benjamin A. Kimball,	1872-1878.
Josiah Minot,*	1872. Resigned Jan. 10, 1874.
David A. Ward,*	1872-1874.
Edward L. Knowlton,*	1872. Resigned Sept. 25, 1875.
Benjamin S. Warren,*	1872-1873.
John Kimball, <i>ex officio</i> ,	1872-1876.
John Abbott,*	1873-1876.
John S. Russ,*	1874-1877.
Abel B. Holt,*	1874-1877.
Samuel S. Kimball,*	1875. Resigned July 1, 1891.
Geo. A. Pillsbury,*	<i>ex officio</i> , 1876-1878.
Luther P. Durgin,*	1876-1885.
John Kimball,	1877. Resigned July 1, 1891.
William M. Chase,	1877. Resigned July 1, 1891.
Horace A. Brown,*	<i>ex officio</i> , 1878-1880.
James L. Mason,*	1878-1893.
James R. Hill,*	1878. Died in 1884.
Geo. A. Cummings,*	<i>ex officio</i> , 1880-1883.
Edgar H. Woodman,*	<i>ex officio</i> , 1883-1887.
Joseph H. Abbot,*	1884-1893.
George A. Young,*	1885-1894.
John E. Robertson,	<i>ex officio</i> , 1887-1889.
Stillman Humphrey,*	<i>ex officio</i> , 1889-1891.
Henry W. Clapp,*	<i>ex officio</i> , 1891-1893.
Willis D. Thompson,	1891-1895.

* Deceased.

William P. Fiske,	1891-1902.
James H. Chase,*	1891. Died in 1893.
John Whitaker,*	1892. Died in 1903.
Henry E. Conant,*	1892. Resigned Jan. 8, 1895.
Parsons B. Cogswell,* <i>ex officio</i> ,	1893-1895.
Solon A. Carter,	1893. Now in office.
Frank D. Abbot,	1893-1901.
William M. Mason,	1893-1899.
William E. Hood,	1894-1902.
Henry Robinson, <i>ex officio</i> ,	1895-1897.
Ebenezer B. Hutchinson,*	1895. Resigned Jan. 10, 1899.
Edson J. Hill,	1895. Now in office.
Albert B. Woodworth,* <i>ex officio</i> ,	1897-1899.
Nathaniel E. Martin, <i>ex officio</i> ,	1899-1901.
Henry E. Conant,*	1899. Died in 1911.
Timothy P. Sullivan,	1899. Resigned May 14, 1901.
Harry G. Sargent,* <i>ex officio</i> ,	1901-1903.
Obadiah Morrill,	1901-1905.
George D. B. Prescott,	1901. Now in office.
Harry H. Dudley,	1902. Now in office.
Nathaniel E. Martin,	1902. Now in office.
Charles R. Corning, <i>ex officio</i> ,	1903-1909.
Henry C. Holbrook,	1903. Now in office.
Harley B. Roby,	1905. Resigned Jan. 24, 1911.
Charles J. French, <i>ex officio</i> ,	1909. Now in office.
Burns P. Hodgman,	1911. Now in office.
Frank P. Quimby,	1911. Now in office.

PRESIDENTS OF THE BOARD.

Josiah Minot,*	1872. Resigned Jan. 10, 1874.
Benjamin A. Kimball,	1874-1875.
Edward L. Knowlton,*	1875. Resigned Sept. 25, 1875.

* Deceased.

John Kimball,	1875-1876.
Benjamin A. Kimball,	1876-1878.
John Kimball,	1878. Resigned July 1, 1891.
William P. Fiske,	1891-1902.
Solon A. Carter,	1902. Now in office.

SUPERINTENDENTS.

V. C. Hastings,*	1873. Died March 14, 1907.
P. R. Sanders,	1907. Now in office.

* Deceased.

CONSTRUCTION.

Cost of land damages, flowage and water rights:

Paid B. F. & D. Holden, for water rights,	\$60,000.00
Concord Manufacturing Co., for water rights,	83,000.00
W. P. Cooledge, for mill privilege and land,	5,500.00
Humphrey & Farnum, for kit-shop privilege,	4,900.00*
flowage rights around Penacook Lake,	4,375.61
W. P. Cooledge, Hutchins lot,	1,050.00†
Mary C. Rowell, for land,	1,500.00
Moses H. Bradley, for land,	5,000.00
Joseph B. Walker, for land,	2,214.00
John G. Hook, for land,	370.00
A. S. Ranney, for land,	1,350.00
Alfred Roberts, for land,	1,275.00
Charles E. Ballard, for land,	2,500.00
Mary G. Carter, for land,	1,250.00
Elizabeth Widmer, for land,	1,564.50
A. L. Proctor, for land,	450.00
Robert Crowley, for land,	3,000.00
Miles Hodgdon, for land,	2,200.00
heirs of Lowell Brown, for land,	1,032.55
Coffin & Little, for land,	800.00

* Original cost, \$5,000; land sold for \$100.

† Original cost house and lot, \$2,250; portion of lot sold for \$1,200.

Paid O. F. Richardson, for land,	\$100.00
M. H. & C. R. Farnum, for land,	4,500.00
Cook & Hood, for land,	1,750.00
Charles H. Farnum, for land,	1,410.36
Fred N. Ladd, for land,	300.00
A. W. Hill, for land,	6,500.00
Helen G. Evans and others, for land,	2,000.00
Frank B. Kilburn, for land,	2,500.00
Joseph A. and Mary E. Hal- loran, for land,	600.00
Wheelock Club, for land,	1,400.00*
Dr. I. A. Watson, for land,	2,490.00†
Frank E. Horner, for land,	1,900.00
Frank E. and William H. Horner, for land,	100.00
C. H. Amsden, water and flowage rights,	5,000.00
Cost of property and rights of Tor- rent Aqueduct Association,	20,000.00
dam, gate-house and appurte- nances,	32,756.17
conduit and gate-houses,	29,484.05
mains (low service main and pump main from the dam to Penacook Street, force main from the pump to the reservoir, fire main through North and South Main Streets, and high service Main from Penacook Street to Stark Street, Penacook),	182,241.70

* Original cost, \$1,500; house sold for \$100.

† Original cost, \$2,700; house sold for \$210.

Cost of distribution pipe,	\$375,720.69	
service pipe,	58,910.80	
reservoir,	42,460.09	
pumping station, shop, sta- ble and storehouse,	22,954.48	
pumping machinery,	17,000.42	
engineering and superintend- ence,	14,913.12	
incidentals,	6,531.19	
		<hr/>
Cost of works, January 1, 1912,		\$1,016,854.73

Bonds of the city have been issued to pay a part of said cost, of which the following are still outstanding:

When due.	Rate.	Amount.
April 1, 1912,	3½,	\$9,000.00
Jan. 1, 1913,	4,	10,000.00
Jan. 1, 1914,	4,	10,000.00
Jan. 1, 1915,	4,	5,000.00
Jan. 1, 1916,	4,	9,000.00
Jan. 1, 1917,	4,	10,000.00
Jan. 1, 1918,	4,	10,000.00
Jan. 1, 1919,	4,	10,000.00
Nov. 1, 1920,	3,	7,000.00
Nov. 1, 1921,	3,	4,000.00
April 1, 1921,	3½,	5,000.00
Jan. 1, 1922,	4,	384,000.00
March 1, 1922,	3½,	20,000.00
April 1, 1922,	3½,	30,000.00
Jan. 1, 1923,	3½,	15,000.00
Jan. 1, 1924,	3½,	15,000.00
		<hr/>
		\$553,000.00

HENRY E. CONANT.

Born at Barre, Mass., May 24, 1832.

Died at Concord, N. H., July 27, 1911.

Member of the Board of Water Commissioners

from

1892 to 1895

and

1899 to 1911.

REPORT OF WATER COMMISSIONERS.

OFFICE OF THE BOARD OF WATER COMMISSIONERS,
CONCORD, N. H., February 15, 1912.

To His Honor the Mayor and the Board of Aldermen:

The Board of Water Commissioners transmits herewith the report of Percy R. Sanders, superintendent, exhibiting in detail the operations of the department for 1911, together with the report of Henry A. Rowell, engineer at the pumping station, which documents are made a part of this report.

The plant is in excellent condition and has met all reasonable demands upon it during the past year.

The season of 1911 has been the seventh successive season when the rainfall has been below the normal with the result that the mean height of water in Penacook Lake has been less than in any year since 1895.

The board thought it wise to caution water takers against waste and to restrict the use of garden hose during the heated term, but believes that no one was seriously inconvenienced in consequence.

It is confidently expected that the coming season will show a change for the better and that for a series of years the mean height of water will be nearly or quite normal.

With fewer demands for extensions and renewals of distributing mains, the expenditures have been less and the board has been able to anticipate the redemption of water bonds to the amount of \$17,000, and will undoubtedly be able to anticipate the payment of \$15,000 of the water debt the coming year, thus effecting a material saving in interest charges.

The board takes this opportunity to express its appreciation of the intelligent and faithful performance of their duties, by its employees in all departments.

Respectfully submitted,

EDSON J. HILL,
GEORGE D. B. PRESCOTT,
HARRY H. DUDLEY,
NATHANIEL E. MARTIN,
SOLON A. CARTER,
BURNS P. HODGMAN,
HENRY C. HOLBROOK,
FRANK P. QUIMBY,
CHARLES J. FRENCH, *ex officio*,
Board of Water Commissioners.

REPORT OF THE SUPERINTENDENT.

To the Board of Water Commissioners:

I herewith present to you the fortieth annual report of the operations of this department, showing the receipts, expenditures and abatements, together with a statement of the extensions and improvements made during the year ending December 31, 1911:

RECEIPTS.

For water, from consumers by fixed rates,	\$16,150.38
For water, from consumers by meter rates,	54,995.17
From delinquents,	100.68
For water for building purposes,	65.76
hay and apples sold,	25.00
pipe and stock sold and labor,	277.37
old brass and iron sold,	31.09
wood sold,	37.00
building sold,	230.00
telephone tolls,	.65
	\$71,913.10
Deduct abatements,	31.76
	\$71,881.34
Net receipts for 1911,	\$71,881.34

EXPENDITURES.

GENERAL EXPENSES.

Paid pay-rolls, salaries and labor,	\$8,252.05
S. G. Sanborn, rent of shop in Penacook,	24.00

Paid Ira C. Evans Co., printing and postage,	\$252.39
Rumford Printing Co., books,	70.50
Brown & Saltmarsh, frame,	3.50
Concord Evening Monitor, advertising,	30.00
Patriot Printing Co., advertising,	30.10
Will D. Hutchinson, distributing bills,	10.00
Concord Electric Co., lighting,	13.81
N. E. Tel. & Tel. Co., telephones,	93.46
John C. Thorne, rubber boots,	17.00
Thorne Shoe Store, rubber boots and mittens,	20.00
Thompson & Hoague Co., hardware,	154.25
W. J. Jenks & Co., hardware,	48.13
Concord Hardware Co., hardware,	4.00
A. H. Britton & Co., hardware,	2.98
Joseph T. Walker, hay,	107.32
Walter S. Dole, grain and straw,	97.23
G. N. Bartemus & Co., grain and straw,	77.76
I. A. Watson, power boat,	150.00
Chandler Eastman Sons Co., dump cart and repairs,	97.25
John Swenson, exploders,	2.00
F. L. Johnson, batteries,	1.80
Concord Lumber Co., lumber,	20.08
Page Belting Co., supplies and labor,	19.65
Batchelder & Co., oil, etc.,	21.50
C. H. Martin & Co., naphtha, lard oil, etc.,	24.52
Fowler Drug Co., supplies,	2.06

Paid F. E. Fitts Manufacturing and Supply Co., waste,	\$12.20
Woodworth & Co., cement,	17.90
Charles Millar & Son Co., cast-iron pipe,	1,218.34
Builders Iron Foundry, castings,	174.00
Water-Works Equipment Co., castings and valves,	448.80
Ludlow Valve Mfg. Co., valves and hydrants,	388.55
Rensselaer Mfg. Co., hydrants,	328.79
Norwood Engineering Co., hydrants,	148.00
Bingham & Taylor, gate boxes,	111.69
Richards & Co., pig lead,	194.29
A. M. Byers Co., wrought-iron pipe,	109.70
Concord Foundry & Machine Co., castings,	26.24
F. L. Badger, brass castings,	12.69
Hays Mfg Co., service boxes,	28.39
Walworth Mfg. Co., tools and supplies,	205.40
George E. Gilchrist & Co., tools and supplies,	28.50
Braman Dow Co., tools and supplies,	16.50
H. Mueller Mfg. Co., tools and supplies,	11.86
Grip Coupling Co., tools and supplies,	14.88
Orr & Rolfe, fittings,	5.61
City Sewer Department, pipe,	3.60
Harold L. Bond Co., tools,	117.72
Beckman Sanitary Spec. Co.,	65.00

Paid National Meter Co., meters and repairs,	\$720.18
Thomson Meter Co., meters and repairs,	487.67
Neptune Meter Co., meters and repairs,	420.35
Union Water Meter Co., meters and repairs,	149.10
Henry R. Worthington, meters and repairs,	72.25
Pittsburg Meter Co., meters,	30.00
Hersey Mfg. Co., meter repairs,	18.55
Globe Horseshoeing Shop, smith work,	80.00
Ross W. Cate, smith work,	23.10
J. M. Crossman, smith work,	16.00
George D. Huntley, repairs,	10.85
George L. Fogg, repairs,	6.55
R. M. Johnson, repairs,	5.00
Holt Bros. Mfg. Co., repairs,	2.85
James Cookson, repairs,	6.50
C. Pelissier, repairs and supplies,	21.55
Henry M. Richardson, team work,	119.25
E. H. Runnells, team work,	10.00
George L. Theobald, team work,	7.72
E. S. King, auto hire,	16.00
C. H. Carter, auto hire,	9.00
I. E. Gray, auto hire,	6.00
F. A. Clough, horse hire,	114.66
George F. Tandy, repairing concrete,	66.00
Hutchinson Bldg. Co., lumber and labor,	105.90
C. W. Dadmun, electrical work and supplies,	22.10

WATER DEPARTMENT.

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Paid George Abbott, Jr., painting and supplies,	\$9.65	
Morrill & Danforth, insurance and bond,	227.00	
Eastman & Merrill, insurance,	9.00	
Boston & Maine R. R., freight,	212.90	
Boston & Maine R. R., repairing siding,	127.53	
town of Webster, taxes,	50.00	
Engineering News,	5.00	
A. G. Cochran, clerk, paid out car fares, express, postage, etc.,	112.58	
P. R. Sanders, expenses to Water-Works convention,	15.00	
Martin & Howe, legal expenses,	100.00	
I. A. Watson, land,	2,700.00	
F. E. Horner, land,	1,900.00	
F. E. & W. H. Horner, land,	100.00	
F. E. Gale, damages,	100.00	
incidentals,	22.29	
	—————	\$21,574.07

PUMPING STATION EXPENSES.

Paid pay-rolls, engineer and fireman,	\$1,819.48
labor on fuel,	45.57
E. S. Tenney & Co., coal,	1,093.50
W. C. Robinson & Sons Co., oil,	30.30
Eagle Oil & Supply Co., packing,	44.38
Boston Belting Co., packing,	16.00
F. E. Fitts Mfg. & Supply Co., waste,	17.15
Crandall Packing Co., packing,	2.28
Walworth Mfg. Co., supplies,	1.94
McLeod & Henry, supplies,	24.00
N. E. Roller Grate Co., repairs,	5.00

Paid Hodge Boiler Works, repairs,	\$14.00
Ford & Kimball, grates,	61.40
Concord Foundry & Machine Co.,	.52
Thompson & Hoague Co., hard- ware,	10.32
Walter L. Jenks & Co., hardware,	3.15
C. W. Drake, repairs,	1.45
Orr & Rolfe, supplies,	1.24
Page Belting Co., supplies,	20.30
Rowell & Plummer, mason work,	48.51
Concord Light & Power Co., lighting,	11.64
N. E. Tel. & Tel. Co., telephones,	36.90
Boston & Maine R. R., freight,	3.50
Morrill & Danforth, insurance,	28.00
	\$3,340.53
Total expenditures for 1911,	\$24,914.60

The expenditures are divided as follows:

GENERAL EXPENSES.

For office expenses,	\$1,218.25
maintenance,	6,164.37
inspection,	780.00
care and repair of hydrants,	225.03
new service-pipes,	518.95
new distribution-pipes,	3,168.95
new hydrants,	1,309.37
new meters,	2,167.53
work at Penacook Lake,	470.02
care of wood-lots at Penacook Lake,	168.66
land,	4,700.00
incidentals,	682.94
	\$21,574.07

PUMPING STATION EXPENSES.

For salaries, engineer and fireman,	\$1,819.48	
fuel,	1,139.07	
oil and packing,	92.96	
repairs,	154.88	
supplies,	54.10	
lighting and telephone,	48.54	
insurance,	28.00	
freight,	3.50	
	—————	\$3,340.53

EXTENSIONS AND IMPROVEMENTS.

Cast-iron main and distribution pipes have been laid and hydrants set during the year as follows:

In High Street,

extended south from Franklin Street, 27 feet 10-inch pipe.

In Lake Street, West Concord,

extended from North State Street to H. C. Holden's, 1,216 feet 8-inch pipe; also from H. C. Holden's to Quaker Street, 465 feet 6-inch pipe.

In Elm Street,

south from Fayette Street to Thompson, 270 feet 6-inch pipe.

In Grove Street,

south from Monroe Street to Downing, 1,093 feet 6-inch pipe.

In Dartmouth Street,

extended south, 59 feet 6-inch pipe.

In Myrtle Street,

south from Thompson Street, 99 feet 4-inch pipe.

In Jefferson Street,

south from Thompson Street, 138 feet 4-inch pipe.

On hydrant branches,

152 feet 6-inch pipe.

Also 194 feet 1¼-inch pipe; 614 feet 1-inch discontinued.

Thirteen new hydrants have been set, as follows:

- On Monroe Street, at Rumford School.
- On Thorndike Street, at South State.
- On McKinley Street, at Dunklee Street extension.
- On Pleasant Street, at South Church.
- On Dartmouth Street, at Clinton.
- On Hanover Street, near No. 10.
- On Penacook Street, opposite T. Hannigan's.
- On High Street, at Valley.
- On Beacon Street, at White.
- On North State Street, at Tahanto School.
- On Lake Street, West Concord, at Quaker.
- On Lake Street, West Concord, near H. C. Holden's.
- On Lake Street, West Concord, near Mrs. Besse's.

There have been set 22 gates.

SUMMARY OF THE FOREGOING.

NEW PIPES, HYDRANTS AND STOP-GATES.

<i>Pipes.</i>	<i>Hydrants.</i>	<i>Stop-Gates.</i>
1¼-in., 194 feet.	In city, 13	4-in., 1
4-in., 237 “		6-in., 19
6-in., 2,039 “		8-in., 1
8-in., 1,216 “		20-in., 1
10-in., 27 “		
—	—	—
3,713 feet.	13	22
equal to .703 mile.		

Total length of main and distribution pipes now in use, 362,003 feet, equal to 68.56 miles.

Total number of gates now in use, 982.

Total number of hydrants now in use, 417.

SERVICE PIPES.

There have been laid during the year and connected with the main pipes, 37 service pipes consisting of

28 ¾-inch,	724 feet.
5 1-inch,	174 feet.
4 2-inch,	23 feet.
1 4-inch,	20 feet.
—	—
38	941 feet.

Whole number of services at the present time, 3,738; total length of service pipes, 87,099 feet, or 16.49 miles.

We have set 145 meters during the year; 3 have been removed, making the total number now in use, 2,153.

The following table shows the height of water in Penacook Lake on the first day of each month:

January,	177.90	July,	178.15
February,	177.90	August,	177.40
March,	178.20	September,	177.00
April,	178.65	October,	176.10
May,	179.30	November,	175.70
June,	179.75	December,	175.95

The lowest point reached during the year was on October 18, being 175.45; the highest was on May 15, and was 179.80; mean height for the year was 177.60, which was 2.62 feet lower than the mean height for the year 1910.

There have been few calls for extension of the distribution system this season; two petitions have been considered but were not deemed advisable to grant. This has given the department an opportunity to improve the service in several short streets that were supplied one way only, by extending and making an additional connection, so eliminating the dead ends. In West Concord conditions have been much improved on Lake Street by giving this section the benefit of the high service both for domestic and fire protection, the continual low water at the lake having made it difficult to supply this street satisfactorily.

The service pipes have been relaid in Main Street from Pearl to Centre Street and in other sections as conditions demanded.

Thirteen new hydrants have been placed in service this year. All hydrants have been thoroughly tested and put in the best possible working order. With extension of the high service planned for next season of 10-inch lines in School Street from Main to Rumford, Warren Street from Main to State, and Pleasant Street from Main to State,