

D.

FIRE-HYDRANTS.

H, HIGH SERVICE; L, LOW SERVICE.

STREETS.	LOCATIONS.	Service.	Number.	
North Main . . .	Southwest corner of Penacook	L	27	
	East side, near J. B. Walker's	L		
	Junction of Fiske	L		
	East side, near Larkin's store	H		
	Northwest corner of Franklin	H		
	East side, opposite Pearl	H		
	Northwest corner of Washington	L		
	West side, at West Garden	H		
	East side, opposite Chapel	L		
	Northwest corner of Court	L		
	Northwest corner of Pitman	H		
	Northwest corner of Montgomery	H		
	East side, opposite Montgomery	L		
	Northwest corner of Centre	H		
	Southeast corner of Bridge	L		
	Southwest corner of Park	L		
	East side, opposite Park	H		
	Northwest corner of Capitol	H		
	Northwest corner of School	L		
	West side, at Centennial Block	H		
	East side, opposite Centennial Block	L		
	East side, in rear Eagle Hotel	L		
	East side, in rear Woodward Block	L		
	Northwest corner of Warren	L		
	West side, at Central Block	H		
	Northeast corner of Depot	L		
	Northwest corner of Pleasant	L		
	South Main . . .	Southeast corner of Pleasant		H
		Northeast corner of Freight		L
		East side, opposite Fayette		H
		East side, opposite Thompson		L
		Southeast corner of Chandler		H
Northwest corner of Wentworth Avenue		H		
Northwest corner of Thorndike		L		
East side, opposite St. John's Church		H		
Northwest corner of Perley		L		
West side, near Abbot-Downing Co.'s		H		
East side, opposite Abbot-Downing Co.'s		L		
East side, near West		H		
Northeast corner of Gas		L		
West side, opposite Holt Bros. Mfg. Co.		H		
Southwest corner of South State		H		
Northwest corner of Pillsbury		L		
East side, opposite Pillsbury	L			
West side, opposite entrance to R. R. shops	H			
West side, at Lamprey's	L			

FIRE-HYDRANTS.—*Continued.*

STREETS.	LOCATIONS.	Service.	Number.
South Main...	West side, below Wiggin.....	L	20
Water.....	West side, below Bridge.....	L	1
Hall.....	West side, opposite Rolfe and Rumford Asylum	L	
	West side, near E. W. Robinson's.....	L	
	West side, near W. A. Phillips.....	L	
	West side, opposite Hammond.....	L	
	West side, opposite Home Avenue.....	L	
	East side, opposite Roy's.....	L	
	East side, near Rumford Field.....	L	7
Hammond....	North side, near Bridge.....	L	1
Railroad.....	East side, opposite Ford & Kimball's.....	L	1
Fiske.....	West side, near North State.....	H	1
Summer.....	Northeast corner of Pitman.....	L	1
Durgin.....	East side, opposite Toof's laundry.....	L	1
North State...	Southwest corner of Penacook.....	H	
	Northwest corner of Walker.....	H	
	Northwest corner of Church.....	L	
	Northeast corner of Franklin.....	L	
	Northwest corner of Tremont.....	L	
	Northeast corner of Washington.....	L	
	West side, opposite Court.....	L	
	Southwest corner of Maple.....	L	
	Southeast corner of Centre.....	L	
	Southeast corner of Park.....	L	
	Southwest corner of School.....	L	
	Southeast corner of Warren.....	L	
	Northwest corner of Warren.....	H	
	Northwest corner of Pleasant.....	L	14
South State...	Southeast corner of Pleasant.....	H	
	East side, opposite Wall.....	L	
	Northwest corner of Thompson.....	L	
	Southwest corner of Monroe.....	L	
	East side, opposite Laurel.....	L	
	Northeast corner of Downing.....	L	
	Northeast corner of West.....	L	
	Southwest corner of Harrison.....	L	8
Mills.....	West side, near Levi Call's.....	L	
	Northwest corner of Allison.....	L	2
Dakin.....	West side, near C. E. Harriman's.....	L	1
Dunklee.....	West side, 150 feet south of West.....	L	
	Northwest corner of Allison.....	L	
	Northwest corner of Pillsbury.....	L	3
Broadway....	West side, at H. H. Metcalf's.....	L	
	Northwest corner of Allison.....	L	
	Northwest corner of Carter.....	L	
	Northwest corner of Stone.....	L	
	West side, at Rollins Park.....	L	
	West side, opposite McKinley.....	L	

FIRE-HYDRANTS.—*Continued.*

STREETS.	LOCATIONS.	Service.	Number.
Broadway	West side, between McKinley and Rockingham	L	7
Donovan	Northeast corner of Wiggin	L	1
Green	Northwest corner of Prince	H	
	East side, opposite Prince	L	
	Northwest corner of Warren	L	3
South	West side, opposite Wall	L	
	Northwest corner of Fayette	L	
	Northwest corner of Thompson	L	
	West side, opposite Monroe	L	
	West side, opposite Laurel	L	
	West side, below N. H. Memorial Hospital	L	
	West side, opposite Downing	L	
	West side, opposite Allison	L	
	West side, opposite Pillsbury	L	
	West side, near Paige's	L	
	West side, opposite I. W. Bushey's	L	
	Northwest corner of Iron Works Road	L	
	East side, at Quint's	L	
	West side, near Bow line	L	14
Bradley	Southwest corner of Penacook	H	
	Northwest corner of Walker	L	
	East side, opposite Highland	L	
	Northwest corner of Franklin	L	4
Union	Northwest corner of Maple	L	1
Jackson	Northeast corner of Church	H	1
Lyndon	Southwest corner of Tremont	H	
	East side, opposite Abbott	H	2
North Spring	Northeast corner of Maple	L	
	Southwest corner of Centre	H	
	West side, at High School	H	
	East side, opposite High School	L	
	Southwest corner of School	H	5
South Spring	Southwest corner of Oak	L	
	West side, opposite Thompson	L	
	West side, opposite Concord	L	
	West side, near Memorial Hospital	L	4
Academy	East side, at F. E. Hook's	H	1
Hanover	West side, at No. 10	L	1
Rumford	West side, south of cemetery gate	H	
	West side, opposite Perkins	L	
	Northeast corner of Albin	L	
	Northeast corner of Franklin	L	
	Northwest corner of Beacon	H	
	Northeast corner of Abbott	L	
	Northeast corner of Cambridge	L	
	Northwest corner of Centre	H	
	Northeast corner of School	L	9
Huntington	West side, at head of Short	H	1

FIRE-HYDRANTS.—*Continued.*

STREETS.	LOCATIONS.	Service.	Number.
Tahanto.....	Northwest corner of School.....	H	1
Pine.....	Southwest corner of Centre.....	H	
	Southwest corner of Warren.....	H	2
Holt.....	East side, at Nason's.....	H	1
High.....	Northwest corner of Auburn.....	H	
	Northwest corner of Valley.....	H	
	East side, opposite Forest.....	H	
	Southwest corner of Franklin.....	H	4
Valley.....	Northeast corner of Forest.....	H	1
Auburn.....	Northeast corner of Chestnut.....	H	
	Northeast corner of Forest.....	H	
	North side, between Centre and Forest.....	H	3
Ridge Road...	West side, opposite Mrs. Jackman's.....	H	1
WestbourneRd.	North side, north of Mrs. F. P. Hallett's.....	H	1
Giles.....	Southeast corner of School.....	H	1
Dartmouth...	Southwest corner of Clinton.....	L	1
Princeton.....	Southwest corner of Clinton.....	L	
	Northwest corner of Noyes.....	L	2
Fruit.....	Northeast corner of Woodman.....	H	
	West side, near H. T. Gilman's.....	L	
	East side, opposite W. W. Critchett's.....	L	
	East side, opposite Kilburn's.....	L	4
Minot.....	West side, north of Odd Fellows' Home.....	H	
	West side, south of Odd Fellows' Home.....	H	
	Northwest corner of Pleasant.....	H	3
Penacook.....	South side, near Concord Lumber Co.....	H	
	South side, east of P. B. Co.'s storehouse.....	L	
	South side, near P. B. Co.'s.....	H	
	South side, near P. B. Co.'s office.....	H	
	Southeast corner of North Main.....	H	
	Southwest corner of Rumford.....	H	
	North side, opposite T. Hannigan's.....	H	
	Southeast corner of Columbus Avenue.....	H	8
Walker.....	Southwest corner of Martin.....	L	1
Albin.....	North side, near D. Weathers'.....	L	1
Highland.....	North side, between Bradley and Rumford...	L	
	Northeast corner of Rumford.....	L	2
Church.....	South side, east of Bradley.....	L	
	North side, opposite Lyndon.....	H	
	Northeast corner of Rumford.....	H	3
Franklin.....	Northwest corner of Jackson.....	H	
	Northeast corner of Lyndon.....	H	
	Southwest corner of Rumford.....	H	
	South side, opposite W. J. Ahern's.....	H	
	North side, between High and Auburn.....	H	
	Northeast corner of Auburn.....	H	6
Chestnut.....	Northwest corner of High.....	H	1
Tremont.....	North side, east of Harrod.....	L	

FIRE-HYDRANTS.—*Continued.*

STREETS.	LOCATIONS.	Service.	Number.
Tremont.....	Southwest corner of Jackson.....	H	2
Pearl.....	North side, at Kimball Flanders'.....	L	1
Beacon.....	North side, opposite Merrimack School.....	H	
	Northwest corner of Jackson.....	H	
	Southwest corner of Lyndon.....	H	
	North side, opposite White.....	H	
	South side, opposite Charles.....	H	5
Rowell.....	Northeast corner of White.....	H	1
Blanchard....	Northwest corner of Essex.....	H	1
Ferry.....	North side, opposite Ford's foundry.....	H	
	North side, near N. E. Granite Works.....	H	
	North side, east of C. & M. R. R.....	L	
Washington...	Northwest corner of Huntoon Avenue.....	H	4
	North side, opposite Rollins.....	L	
	Southwest corner of Union.....	L	
	Northeast corner of Lyndon.....	H	
	Northwest corner of Rumford.....	H	
	Northwest corner of North Essex.....	H	
Chapel.....	North side, opposite Perry Avenue.....	H	6
	South side, near Methodist Church.....	L	1
Montgomery..	South side, opposite Minot's.....	L	1
	Centre.....	H	
Bridge.....	Northeast corner of North State.....	H	
	Southwest corner of Green.....	L	
	Northwest corner of Union.....	H	
	Northwest corner of North Spring.....	L	
	South side, opposite Essex.....	H	
	Southwest corner of Summit Avenue.....	H	
	Northeast corner of Ridge Road.....	H	7
	South side, near easterly barn.....	L	
Park.....	North side, opposite Concord Coal Co.'s.....	H	
	North side, opposite Concord Shoe Factory...	H	3
Capitol.....	North side, at St. Paul's Church.....	L	1
	North side, at south gate of State House yard..	H	
Garden.....	Northeast corner of North State.....	H	2
	Northeast corner of Huntington.....	H	1
School.....	South side, west of Durgin.....	H	
	Northwest corner of North State.....	H	
	Northeast corner of Green.....	H	
	Northwest corner of Green.....	L	
	Northwest corner of North Spring.....	L	
	Northwest corner of Rumford.....	L	
	Northwest corner of Merrimack.....	H	
	Northwest corner of Pine.....	H	
	Northeast corner of Liberty.....	H	
	North side, opposite E. B. Woodworth's.....	L	10
Warren.....	Southeast corner of Odd Fellows Avenue.....	H	
	Southeast corner of Fremont.....	L	
	Northwest corner of North Spring.....	L	

FIRE-HYDRANTS.—Continued.

STREETS.	LOCATIONS.	Service.	Number.
Warren	Northwest corner of Rumford	H	
	Southwest corner of Merrimack	H	
	Northwest corner of Tahanto	H	
	Northeast corner of Liberty	H	
	Northeast corner of Giles	H	
Depot	Junction of Pleasant, near Fruit	H	9
	South side, at north end of train shed	H	
Blake	Northwest corner of Railroad Square	L	2
	South side, at H. B. Boutwell's	L	1
Orchard	South side, opposite Sherburne's	H	1
Pleasant	Southwest corner of Railroad Square	H	
	Northwest corner of Railroad Square	L	
	South side, at South Congregational Church ..	L	
	Southeast corner of South	L	
	Northeast corner of Fremont	L	
	Southwest corner of Spring	H	
	South side, opposite Rumford	H	
	South side, opposite Merrimack	H	
	South side, opposite Pine	H	
	South side, opposite Liberty	H	
	North side, near city stable	H	
	South side, near Gale	H	
	South side, opposite Mrs. Aiken's	H	
	South side, near Mrs. Eddy's cottage	H	
	North side, near James Lane's	H	
	North side, near J. McC. Hammond's	H	
	South side, opposite Fiske Road	H	
	Southwest corner of School Avenue	H	
	North side, opposite infirmary	H	
	South side, in field near gasometer	H	
	South side, near new Upper School	H	21
Fiske Road ...	East side, at Trask's	H	1
Mill Road,	East side, near laboratory	H	
St. P. School ..	North side, at Orphans' Home	H	
	South side, at tenement No. 7	H	3
Old Hopkinton Road	Junction of Hopkinton road	H	1
Wall	Northeast corner of Elm	L	1
Marshall	North side, opposite Fuller	L	1
Freight	North side, at southwest corner passenger stat'n	H	1
Hill's Avenue ..	Southwest corner of Railroad Square	L	
	Northeast corner of South Main	L	2
Fayette	Northwest corner of Elm	L	1
Thompson	North side, opposite Jefferson	L	1
Chandler	South side, opposite Railroad	L	1
Concord	Southwest corner of South State	L	
	Northwest corner of Jefferson	L	
	Northeast corner of South	L	3

FIRE-HYDRANTS.—*Continued.*

STREETS.	LOCATIONS.	Service.	Number.
Monroe	North side, opposite Grove	L	
	South side, at Rumford School	L	2
Thorndike	Southwest corner of South State	L	
	Northeast corner of Grove	L	
	North side, opposite Pierce	L	
	Northeast corner of South Spring	L	4
Laurel	Northwest corner of Grove	L	
	Northwest corner of Pierce	L	2
Perley	Southwest corner of South State	L	
	Northwest corner of Grove	L	
	Northeast corner of Pierce	L	
	South side, near old brook	L	4
Downing	South side, opposite Grove	L	
	Southeast corner of Mills	L	
	Southwest corner of Redwood Avenue	L	3
Clinton	North side, opposite Harvard	L	
	North side, opposite Avon	L	
	Northeast corner of Fruit	L	
	North side, near Snell's	L	
	North side, at State Fair grounds	L	5
West	North side, near South Main	L	
	North side, near Badger	L	
	Northeast corner of Mills	L	
	North side, opposite Dakin	L	
	Northwest corner of Broadway	L	5
Avon	Northwest corner of South	L	1
Harrison	Northwest corner of Morton	L	1
Humphrey	North side, near Kimball	L	1
Allison	Northeast corner of Badger	L	1
Pillsbury	North side, opposite Foster Ward	L	
	Northeast corner of Broadway	L	
	Northwest corner of Kimball	L	3
Carter	Northeast corner of Eastman	L	1
Stone	North side, 300 feet from Bow	L	1
Holly	North side, west of South Main	L	1
McKinley	North side, at Dunklee Street proposed exten'n	L	1
Rockingham	Northeast corner of Broadway	L	
	North side, at Donovan	L	2
Iron Works Rd.	South side, at Brown's	L	1
Prospect	Northwest corner of Granite Avenue	L	
	East side, north of Granite Avenue	L	2
Curtice Ave.	North side, near John C. Kenney's	L	1
North State	West side, at Water-Works storehouse	L	
	Northeast corner of Foster	L	
	East side, at Tahanto School	L	
	Northeast corner of Curtice Avenue	L	
	East side, near W. H. Perry's	L	

FIRE-HYDRANTS.—*Continued.*

STREETS.	LOCATIONS.	Service.	Number.
PENACOOK.			
South Main...	West side, at Harriman's.....	H	
	West side, at Annis's.....	H	
	West side, at Garvin's.....	H	
	West side, south of Willow Hollow.....	H	
	West side, north of Willow Hollow.....	H	
	West side, at south end of Woodlawn Cemetery.....	H	
	West side, at north end of Woodlawn Cemetery.....	H	
	West side, opposite Stark.....	H	
	West side, near Hoyt's garage.....	H	
	West side, near Prescott's.....	H	
	Southwest corner of Union.....	H	
	Washington Square, opposite Washington.....	H	
	Northwest corner of Charles.....	H	
	North side, opposite East Canal.....	H	
	North side, near iron bridge.....	H	15
West Main...	West side, opposite cemetery.....	H	
	West side, at Pine.....	H	2
High.....	Northwest corner of Stark.....	H	
	East side, opposite Summit.....	H	
	Northwest corner of Maple.....	H	
	Northwest corner of Spring.....	H	4
Washington...	Southeast corner of Union.....	H	
	South side, opposite John Whitaker's.....	H	
	South side, opposite Charles.....	H	
	South side, near Contoocook bridge.....	H	4
Electric Ave..	South side, junction of Washington.....	H	1
Elliott.....	Northeast corner of Electric Avenue.....	H	1
Charles.....	Southwest corner of Warren.....	H	
	North side, near George W. Corey's.....	H	2
West Canal...	Southeast corner of Warren.....	H	1
East Canal...	North side, near Contoocook Mfg. Co.....	H	
	North side, near Crescent.....	H	2
Crescent.....	West side, north of Canal.....	H	1
Merrimack...	South side, opposite Merrimack Avenue.....	H	
	North side, opposite D. W. Fox's.....	H	
	North side, opposite Cross.....	H	
	South side, opposite Rolfe's shop.....	H	
	South side, opposite Symonds' factory.....	H	
	North side, near road to Island.....	H	
	Northwest corner of Penacook.....	H	7
Summer.....	North side, opposite High.....	H	
	Northeast corner of Centre.....	H	
	North side, opposite Church.....	H	3
Spring.....	Northeast corner of Church.....	H	1
Maple.....	Northeast corner of Pleasant.....	H	1
Winter.....	North side, near Pleasant.....	H	1

FIRE-HYDRANTS.—*Concluded.*

STREETS.	LOCATIONS.	Service.	Number.
Centre.....	Northwest corner of Spring.....	H	
	West side, at Corbett's.....	H	2
Cross.....	Southwest corner of Summer.....	H	1
Rolfe.....	North side, near James Corbett's.....	H	
	Northwest corner of Penacook.....	H	2
Penacook.....	West side, opposite A. W. Rolfe's.....	H	
	West side, at E. L. Davis'.....	H	
	East side, at John Chadwick's.....	H	3
	Whole number public hydrants.....		430
	PRIVATE HYDRANTS.		
	Concord Shoe Factory.....	H	1
	Boston & Maine Railroad, upper yard.....	L	4
	Boston & Maine Railroad, new shops.....	H	15
	State Prison.....	H	4
	State Prison.....	L	2
	Abbot-Downing Co.'s yard.....	H	6
	Page Belting Co.'s yard.....	H	9
	Page Belting Co.'s yard.....	L	1
	W. P. Ford & Co.'s yard.....	L	1
	N. H. State Hospital yard.....	H	12
	Concord Gas Light Co.'s yard.....	L	1
	St. Paul's School.....	H	1
	Water Works Pumping Station grounds.....	H	1
	Wm. B. Durgin Co.....	H	1
	N. H. Spinning Mill.....	H	4
	Crescent Worsted Co.....	H	2
	Whole number private hydrants.....		65

E.

SUMMARY OF STATISTICS.

FOR THE YEAR ENDING DECEMBER 31, 1912.

In form recommended by the New England Water-Works Association.

CONCORD WATER-WORKS.

CITY OF CONCORD, COUNTY OF MERRIMACK, STATE OF NEW HAMPSHIRE.

GENERAL STATISTICS.

Population by census of 1910—21,497.

Date of construction—1872.

By whom owned—City of Concord.

Source of supply—Penacook Lake.

Mode of supply—Gravity, also pumping to reservoir for high service and fire protection.

PUMPING STATISTICS.

1. Builders of pumping machinery—Henry R. Worthington, Harrison, N. J.
2. Description of fuel used—*a.* Kind—bituminous.
b. Brand of coal—Pocahontas.
c. Average price of coal per gross ton delivered, \$4.817.
d. Percentage ash, 10%.
3. Coal consumed for the year—240.96 tons.
4. (Pounds of wood consumed) ÷ 3 = equivalent amount of coal—7,880.
5. Total equivalent coal consumed for the year for pumping purposes—244.46.

6. Total pumpage for the year without allowance for slip—281,801,009 gallons.

7. Average static head against which pump works—103.84 feet.

8. Average dynamic head against which pump works—105 feet.

9. Number of gallons pumped per pound of equivalent coal—514.

10. Duty =

$$\frac{281,801,009 \text{ gallons pumped, } \times 8.34 \text{ (lbs.) } \times 100 \times \text{dynamic head, } 105}{\text{Total fuel consumed, } 547,622 \text{ pounds.}} = 45,062,679$$

Cost of pumping figured on pumping station expenses, \$3,393.77.

11. Per million gallons pumped—\$12.04.

12. Per million gallons raised one foot (dynamic)—\$0.115.

STATISTICS RELATING TO DISTRIBUTION SYSTEM.

MAINS.

1. Kind of pipe—cast iron and cement-lined.

2. Sizes—from two-inch to twenty-four-inch.

3. Extended—6,882 feet during year.

4. Renewed—182 feet during year.

5. Discontinued—1,672 feet during year.

6. Total now in use—69.58 miles.

7. Number of leaks per mile for year—

8. Length of pipes two inches and less diameter—3.14 miles.

9. Number of hydrants added during year—public, 13; private, 2.

10. Number of hydrants now in use—public, 430; private, 65.

11. Number of stop gates added during year—31.

12. Number of stop gates now in use—1011.

13. Number of stop gates smaller than four inch—

14. Number of blow off gates—83.

15. Range of pressure on mains at center of city—88 pounds high service and 48 pounds low service.

SERVICES.

16. Kind of pipe—cement-lined.
17. Sizes—three-fourths-inch to ten-inch.
18. Extended—1,059 feet.
19. Discontinued—638 feet.
20. Total now in use—87,520 feet.
21. Number of service taps added during year—43.
22. Number now in use—3,752.
23. Average length of service—23.3 feet.
24. Average cost of service for the year—
25. Number of meters added during year—99.
26. Number now in use—2,243.
27. Percentage of services metered—59.78.
28. Percentage of receipts from metered water—79.65.
29. Number of elevators added—none.
30. Number now in use—10.
31. Number of standpipes for street watering—41.

INVENTORY.

OF THE PROPERTY OF THE WATER DEPARTMENT, INCLUDING
THE PLANT AND WATER RIGHTS, AND ALL THE REAL
ESTATE AND PERSONAL PROPERTY IN THEIR POSSESSION,
JANUARY 1, 1913.

Water rights—land, etc.,	\$1,027,659.86
Water office—furniture, etc.,	975.00
Pumping station—furniture, supplies, etc.,	850.00
Shop at pumping station—machinery, tools, etc.,	2,200.00
Stable and basement at pumping station, horse, wagons, etc.,	855.00
Storehouse—hydrants, water gates, etc.,	2,000.00
Pipe yard—cast-iron pipe,	1,600.00
Shop at Penacook—pipe, etc.,	15.00
Shop at West Concord—pipe, etc.,	40.00
	<hr/>
	\$1,036,194.86

REPORT OF THE BOARD OF PUBLIC WORKS.

To the Board of Aldermen:

In compliance with the city charter, the Board of Public Works herewith submits its second annual report for the year ending December 31, 1912.

The board has held forty-seven meetings, eleven of which were hearings held in various parts of the city on the premises covered by the petitions considered.

One hundred and eight petitions have been presented to the board; seventy-six petitions have been granted; in eight cases the petitioners have been given leave to withdraw; in six cases the petitions have been referred to the proper officials with full power.

A contract made between the City of Concord and the Concord Electric Company for lighting the streets with electricity, for a period of ten years, expired September 1, 1912; also a contract made between the City of Concord and the Concord Light & Power Co. for lighting the streets with gas, for a period of five years, expired December 30, 1912. The board has under consideration a contract with the Concord Electric Company for lighting the whole city with electricity, which the Board of Public Works consider advantageous to the city.

For a detailed account of work on streets and highways, garbage and sprinkling precincts, including receipts and expenditures, see report of superintendent of streets, herewith appended.

For report of the work in the several sewer precincts, see report of the city engineer, herewith appended.

Respectfully submitted,

CHARLES J. FRENCH, *Mayor*,
OLA ANDERSON,
ELMER H. FARRAR,
RICHARD A. BROWN,
FREDERICK I. BLACKWOOD,
EVERETT L. DAVIS,
NATHANIEL W. HOBBS,

Board of Public Works.

REPORT OF THE HIGHWAY DEPARTMENT.

OFFICE OF SUPERINTENDENT OF STREETS.

To the Board of Public Works:

GENTLEMEN,—As superintendent of streets I herewith submit the annual report of the work of the highway department for the year ending December 31, 1912.

PERMANENT IMPROVEMENTS AND THEIR MAINTENANCE.

The sum of \$7,700 was appropriated in 1912 for permanent improvements in Concord divided as follows: South Street from Pleasant to Fayette \$2,000, North Main Street from Pearl to Chapel \$2,700, Penacook Road \$2,000, Loudon Road, \$500, Pittsfield Road, \$500. The macadamizing of South Street was the first piece of work to be done. Tarvia was used in construction and at the end of the season the road appeared to be in good condition and to have withstood the motor traffic well. The gutters were paved, sidewalk bankings graded, crossings repaired and the road put in good shape for \$1,953.86. With the continuation of work on this street each year and with proper maintenance South Street will become one of our most attractive streets and I would recommend that the section from Fayette to Thorndike be macadamized next season. At the beginning of the year when the annual appropriations were made it was expected to continue the work on North Main Street south from Pearl but the extensive work done on the sewer made it seem advisable to leave it until another year. It would have been unwise to put in macadam until the street had settled properly and next year it will no doubt be in condition to macadamize and I would recommend that that piece of road be one of the first to receive attention. Instead of using the appropriation on North Main Street it was transferred to North State for improving that street through West Concord village. This road had a fairly good stone chip foundation

but was exceedingly rough. With such foundation it was unnecessary to excavate to any great extent and we were able to improve the road for some distance at a comparatively small expense. The macadam should be continued south to Calvary cemetery to meet the macadam already in and the road should receive surface treatment early in the season.

A section of macadam on the Penacook Road near Willow Hollow had become so badly worn that complete reconstruction was necessary. Tarvia was used in construction. The surface of this entire road from Penacook to Concord should have surface treatment as early in the summer as possible. Merrimack Street in Penacook which leads to the railroad station has a section of macadam which has been in a long time and I would recommend that its reconstruction would be a matter of economy. Park Street from State to Main was macadamized about sixteen years ago and it should be reconstructed also.

Gravel was used again last summer in improving the Loudon and Pittsfield Roads and the work should be continued next summer.

While the highway between Penacook and Concord receives a great amount of automobile traffic the travel on Pleasant Street to St. Paul's School is fully as great. The larger part of that road has been in about ten years and the section from the Eddy estate to the School needs considerable repairing and resurfacing which should be done next summer. In fact all of the macadam should receive more or less surface treatment in order to keep it up to the standard. Last year we received \$650 from the state for resurfacing that portion of the Merrimack Valley boulevard on which the state had aided in constructing. The same road should be repaired this year and application has been made to the state highway department for aid in the work.

Concord has not gone into the matter of highway improvements to any great extent in any one year but have been doing a little each year. Our annual appropriations for

permanent improvements have been small as compared with other cities in the state and by this method we have gradually increased the mileage of good roads and endeavored to keep them in repair. The mileage is not so great that it requires large sums to maintain the roads but constant maintenance is necessary. The necessity for maintenance is increasing each year as the amount of motor traffic increases and it seems most unwise to build good roads unless we intend to keep them in repair. The increase in the motor traffic is making it more evident that more effective methods of dust laying must be used. There are a number of good dust layers for macadam roads but to find a satisfactory one for the unimproved streets is a problem. Last summer we used some tasscoil which was quite satisfactory.

TREES.

The amount of work necessary on the trees is increasing instead of decreasing. We still have the brown-tail moth and the elm tree beetle and the indications are that we shall have a considerable amount of work on account of the gypsy moth. With the additional sprayer purchased last spring we were able to do effective work against the spread of the elm tree beetle and we hope that another season will show that no great amount of damage has been done to the elms in Concord.

SPRINKLING.

The street sprinkling service last summer was very unsatisfactory, due to the lack of teams to run the sprinklers. The amount of automobile traffic on all the streets is increasing; for, beside the pleasure riding, we have the delivery truck, etc., which makes effective dust laying necessary. I would recommend that oil be used on the streets where it would be practical.

GARBAGE.

The collection of garbage is becoming quite a proposition as the amount to be collected and the distance that it must be hauled increases. Wherever we have dumped garbage there have arisen so many complaints that we have been forced farther and farther back until the dumps are some distance away and for that reason I think the purchase of an auto truck for the collection of garbage would be an economy.

GENERAL WORK OF DEPARTMENT.

The usual amount of general work was done by the department during 1912. Several smaller bridges were repaired, one on the Canterbury Road over Hackett's Brook rebuilt and the Pembroke and Loudon bridges repaired. The bridge at Richardson Mill needs repairing but I understand that the town of Pembroke is to recommend a new bridge at their annual town meeting. If a new bridge is built it will be necessary for Concord to rebuild their abutment. The Horse Hill bridge is in special need of painting and, in fact, all the iron bridges in the city need painting. The usual amount of new catch basins were built and several reconstructed. About the same number of new concrete walks were laid and the edgestone around the new Historical building was reset. A large number of old concrete walks were repaired and there are still a great many in need of repairs. Quite a number of gravel sidewalks were built during the year. There is urgent need of a new shed and storeroom at the city lot as we lack suitable room to properly house the equipment of the department and is a matter which should receive your immediate attention.

The arrangements whereby we were able to locate the crusher at the old Putney Quarry, so-called, in West Concord has been a great advantage to the department as it is much easier of access and more convenient in every way.

Our crusher has been in use for a long time and has become so expensive to repair that I would recommend the purchase of a new one. Several meetings of the Massachusetts Highway Association and the Good Roads convention at Cincinnati, Ohio, which I attended have been a great help in keeping informed on the best methods of road building and other work of a highway department.

I would thank the board of public works for their interest in the department and for their courtesies to me. The financial statement shows the various sub-divisions of the work of the department.

Respectfully submitted,

ALFRED CLARK,
Superintendent of Streets.

WARD ONE.

STREET.	Work.	Expense.
Borough Road.....	General repairs.....	\$86.06
Bye.....	" ".....	9.91
Centre.....	" ".....	49.57
Charles.....	" ".....	90.88
Church.....	" ".....	13.05
Cross.....	" ".....	27.65
East Canal.....	" ".....	20.98
	Repairing concrete roadway.....	32.62
	New concrete walks.....	207.85
Elliott.....	General repairs.....	23.73
Elm.....	" ".....	201.83
Fowler.....	" ".....	6.91
High.....	" ".....	81.72
Horse Hill Road.....	" ".....	190.83
Main.....	" ".....	162.24
	Repairing concrete walks.....	37.51
	New concrete walks.....	65.20
Maple.....	General repairs.....	3.89
Mast Yard Road.....	" ".....	63.42
Merrimack Avenue.....	" ".....	14.13
Merrimack.....	" ".....	192.19
Park Avenue.....	" ".....	9.38
Penacook.....	" ".....	50.52
Pleasant.....	" ".....	60.01
Penacook Road.....	Re-constructing macadam.....	1,994.50
	Surface treatment.....	308.83
River Road.....	General repairs.....	308.82
River Hill Road.....	" ".....	67.67
Rolle.....	" ".....	16.99
Scales.....	" ".....	64.94
Spring.....	" ".....	34.46
Summer.....	" ".....	44.96
	Repairing concrete walks.....	7.63
Summit.....	General repairs.....	21.09
Sweatt Hill Road.....	" ".....	42.69
Union.....	" ".....	3.65
Walnut.....	" ".....	71.36
Warren.....	" ".....	1.89
Washington.....	" ".....	142.03
West Canal.....	" ".....	5.54
West Main.....	" ".....	31.27
Winter.....	" ".....	2.16

WARD TWO.

STREET.	Work.	Expense.
Appleton.....	General repairs.....	\$30.63
Canterbury Road.....	" ".....	25.95
Cemetery Road.....	" ".....	15.70
Curtis Road.....	" ".....	12.50
East Penacook.....	" ".....	1.78
Flaghole Road.....	" ".....	10.00
Graham Road.....	" ".....	55.04
Hayward Road.....	" ".....	13.18
Hot Hole Pond Road.....	" ".....	10.00
Intervale Road.....	" ".....	69.39
Loudon Road.....	" ".....	33.87
Pecker.....	" ".....	5.00

WARD TWO.—*Concluded.*

STREET.	Work.	Expense.
Pembroke	General repairs	\$28.47
Penacock Road, Hoit District	" "	147.38
Penacock Road, Penacock Intervale	" "	4.00
Penacock Road, Sanborn District	" "	4.67
Penacock	Grading	386.77
Pond Road	General repairs	9.22
Portsmouth	" "	64.34
Potter	" "	269.24
Sanborn Road	" "	12.50
Sewall's Falls Road	" "	8.00
Shaker Road	" "	104.29
Shaker Road, Virgin District	" "	21.80
Shawmut	" "	82.52
Tyargo Road	" "	10.00
Virgin Road	" "	11.11

WARD THREE.

STREET.	Work.	Expense.
Beech Hill Road	General repairs	\$16.39
Bog Road	" "	21.38
Carter Hill Road	" "	43.00
Clark	" "	72.42
Electric Avenue	Building sidewalks	39.29
Engel	General repairs	3.47
Ferrin Road	" "	10.12
Fisher	" "	6.00
Fisher	" "	16.53
Fisher	Building sidewalks	16.61
Flander's Hill Road	General repairs	38.25
Hutchins	" "	51.95
Knight	" "	8.17
Lake	New concrete crossing	19.50
Little Road	General repairs	19.00
Long Pond Road	" "	3.50
North State	" "	92.03
North State	" "	435.17
Number Five Road	Macadamizing	2,228.44
Peabody	General repairs	48.83
Penacock Road	" "	2.50
Pine Hill Road	Surface treatment	310.36
Quaker	" "	21.72
River Road	" "	1.78
River Road	" "	114.62
Saltmarsh Road	" "	98.85
Sand Bank Road	" "	6.25
Second	" "	3.92
Sewall's Falls Road	" "	59.32
Taylor Hill Road	General repairs	18.22
View	" "	1.81
West Parish Road	" "	33.47

WARD FOUR.

STREET.	Work.	Expense.
Abbott.....	New concrete walks.....	\$17.83
Auburn.....	General repairs.....	52.91
Beacon.....	" ".....	16.80
	Repairing concrete walks.....	164.15
Bradley.....	Building sidewalk and wall.....	308.74
Centre.....	General repairs.....	41.45
Chapel.....	" ".....	5.52
Church.....	" ".....	27.41
East Penacook.....	" ".....	19.22
Essex.....	" ".....	8.31
Forrest.....	" ".....	25.19
Franklin.....	" ".....	10.76
	Repairing concrete walks.....	140.25
Granite.....	General repairs.....	146.52
High.....	" ".....	43.16
Highland.....	" ".....	2.54
Jackson.....	" ".....	13.13
Lyndon.....	" ".....	21.90
Montgomery.....	" ".....	8.74
North Main.....	" ".....	118.39
	Repairing concrete walks.....	94.47
	" " roadway.....	72.75
North Spring.....	General repairs.....	5.92
North State.....	" ".....	10.13
	Repairing concrete walks.....	20.22
	" " roadway.....	53.68
Park Ridge.....	General repairs.....	37.55
Pearl.....	" ".....	3.49
Penacook.....	" ".....	4.09
Perry Avenue.....	" ".....	5.08
	Repairing concrete walks.....	20.61
Pitman.....	General Repairs.....	2.40
Rumford.....	" ".....	90.65
Summer.....	" ".....	15.05
Tremont.....	" ".....	28.81
Union.....	" ".....	11.79
	Repairing concrete walks.....	49.77
Vernon.....	General repairs.....	19.65
Walker.....	" ".....	13.48
Washington.....	" ".....	82.89
	Repairing concrete walks.....	56.90
	New concrete walks.....	54.34
White.....	New concrete walks.....	19.35

WARD FIVE.

STREET.	Work.	Expense.
Blake.....	General repairs.....	\$1.65
	Repairing concrete walks.....	76.33
Capitol.....	" " roadway.....	658.95
	" " walks.....	2.31
Centre.....	General repairs.....	47.94
	Repairing concrete walks.....	48.46
Durgin.....	New concrete walks.....	40.56
Fremont.....	General repairs.....	3.67
Garden.....	" ".....	.79
Giles.....	" ".....	30.92
Green.....	" ".....	23.78
	Repairing concrete walks.....	50.18

WARD FIVE.—*Concluded.*

STREET.	Work.	Expense.
	Repairing concrete roadway	\$3.02
Huntington	General repairs	2.14
Liberty	“ “	28.72
	Repairing concrete walks	30.71
Lincoln	“ “	2.69
Merrimack	General repairs	14.22
	Repairing concrete walks	56.00
North Fruit	General repairs	10.95
North Main	“ “	33.27
	Repairing concrete roadway	155.01
North Spring	General repairs	18.06
North State	Repairing concrete roadway	34.67
	“ “ walks	46.53
Odd Fellow's Avenue	“ “ roadway	2.07
Orchard	General repairs	3.23
Park	“ “	12.39
	Re-setting edgestone	41.77
Pine	General repairs	31.31
	Repairing concrete walks	16.50
Pleasant	General repairs	75.01
	Repairing concrete walks	30.01
	“ “ roadway	7.31
Prince	General repairs	2.39
Ridge Road	“ “	2.22
Rumford	“ “	12.51
	Repairing concrete walks	23.10
School	General repairs	298.73
	Repairing concrete walks	239.86
	“ “ roadway	7.40
	New concrete walks	16.75
Short	General repairs	3.80
Summit Avenue	“ “	2.28
Tahanto	“ “	2.48
	Repairing concrete walks	19.54
Warren	General repairs	135.50
	Repairing concrete walks	66.51
	“ “ roadway	127.49
West Washington	General repairs	8.90

WARD SIX.

STREET.	Work.	Expense.
Clinton	General repairs	\$20.68
Concord	“ “	11.17
Downing	“ “	11.77
Elm	“ “	12.46
	Repairing concrete walks	56.10
Fayette	General repairs	9.23
	Repairing concrete walks	94.11
Fruit	General repairs	13.59
Grove	“ “	9.86
Jefferson	“ “	2.32
Laurel	“ “	19.03
Monroe	“ “	12.04
Oak	“ “	15.51
	Repairing concrete walks	9.88
Perley	General repairs	86.77
	Repairing concrete walks	43.89

WARD SIX.—*Concluded.*

STREET.	Work.	Expense.
Pierce	General repairs	\$11.38
Pleasant	" "	35.96
South	" "	69.16
	Repairing concrete walks	17.42
	New concrete walks	196.70
	Macadamizing	1,953.86
South Main	General repairs	85.01
	Repairing concrete walks	65.65
	" " roadway	20.18
South Spring	General repairs	129.82
	Repairing concrete walks	51.88
	New concrete walks	95.63
South State	General repairs	67.09
	New concrete walks	18.92
	Repairing concrete walks	59.54
Thompson	General repairs	9.23
Thorndike	" "	12.77
	Repairing concrete walks	35.49
Wall	General repairs	17.04
	Repairing concrete walks	31.30

WARD SEVEN.

STREET.	Work.	Expense.
Albin Road	General repairs	\$48.92
Allison	" "	59.63
	Repairing concrete walks	12.54
Avon	General repairs	4.05
Badger	" "	4.95
Birch	" "	75.32
Birchdale Road	" "	13.86
Bog Road	" "	172.91
Bow	" "	1.14
Broadway	" "	76.90
	Repairing concrete walks	1.15
Carter	General repairs	4.99
Clinton	" "	104.74
Dakin	" "	11.94
Downing	" "	37.52
Dunklee	" "	5.89
Eastman	" "	8.41
Fiske Road	" "	55.27
Gale	" "	14.08
Gas	" "	41.28
Glen	" "	34.63
Hall	" "	122.49
Harrison	" "	18.51
Harvard	" "	35.15
Hopkinton Road	" "	88.58
Hopkinton New Road	" "	100.84
" Old	" "	162.10
Humphrey	" "	34.89
Iron Works Road	" "	31.45
Kensington Road	" "	34.89
McKinley	" "	2.20
Mills	" "	112.04
Minot	" "	17.01
Morton	" "	3.14

WARD SEVEN.—*Concluded.*

STREET.	Work.	Expense.
Mose Brown Road	General repairs	\$11.08
North Fruit	" "	12.47
Noyes	" "	183.38
Pillsbury	" "	10.90
	Repairing concrete walks	7.58
	New concrete walks	27.07
Pleasant	General repairs	37.47
	New concrete walks	282.90
	Repairing macadam	269.20
Princeton	General repairs	44.69
Rockingham	" "	56.41
Silk Farm Road	" "	76.37
South	" "	158.83
South Main	" "	211.77
	Repairing concrete walks	87.84
Stickney Hill Road	General repairs	75.61
Stone	" "	52.47
Tuttle	" "	4.49
Water	" "	7.05
West	" "	46.68
Woodman	" "	12.99

WARD EIGHT.

STREET.	Work.	Expense.
Break o' Day Road	General repairs	\$13.85
Bridge	" "	634.43
Chandler	" "	22.59
Clough Mill Road	" "	15.96
Depot	" "	7.84
	Repairing concrete walks	1.15
Ferry	General repairs	129.51
Freight	" "	12.21
Loudon Road	" "	176.91
	Grading	499.40
North Main	Repairing concrete walks	64.35
	" " roadway	46.31
Pittsfield Road	Grading	493.39
Pleasant Extension	Repairing concrete walks	10.45
Sexton Avenue	General repairs	2.98
	Repairing concrete walks	18.61
Sheep Davis Road	General repairs	19.47
South Main	" "	47.07
	Repairing concrete walks	26.34
South Pembroke Road	General repairs	160.94
	Surface treatment	813.41
Stickney Avenue	General repairs	15.95
Sugar Bowl Road	" "	31.88
Tim Chase Road	" "	51.03
Water	" "	78.94

WARD NINE.

STREET.	Work.	Expense.
Auburn.....	General repairs.....	\$79.92
Bradley.....	“ “.....	4.60
Charles.....	“ “.....	13.91
Church.....	“ “.....	3.09
East Penacook.....	“ “.....	24.11
Franklin.....	“ “.....	82.91
Granite.....	“ “.....	175.20
High.....	“ “.....	27.53
Highland.....	“ “.....	33.92
Little Pond Road.....	“ “.....	01.12
Long Pond Road.....	“ “.....	55.74
North State.....	“ “.....	169.05
	Building sidewalks.....	224.48
	Repairing concrete walks.....	277.41
Penacook.....	General repairs.....	69.39
Perkins.....	“ “.....	2.22
Rumford.....	“ “.....	30.82
Snow Shoe Club Road.....	“ “.....	26.19
Walker.....	“ “.....	5.17
Waverly.....	Repairing concrete walks.....	5.28
Wyman.....	General repairs.....	25.98

**FINANCIAL REPORT OF THE HIGHWAY
DEPARTMENT.**

GENERAL MAINTENANCE.

Appropriation,	\$30,000.00	
Transferred from catch basins,	36.16	
		\$30,036.16

EXPENDITURES.

CENTRAL DISTRICT.

GENERAL REPAIRS.

Labor pay-rolls,		\$9,096.53
A. B. Black Road Machinery Com- pany, repairs,	40.92	
Holt Bros. Mfg. Co., repairs,	4.75	
C. H. Swain & Co., repairing tools,	5.90	
Hugh Tallant, lumber,	351.28	
Ohio Pipe Culvert Co., drag,	19.00	
Treworgy Pen & Ink Mfg. Co., ink,	.75	
George H. Richardson, pens,	2.00	
Acme Road Machinery Co., repairs,	120.80	
C. H. Farnum, hay,	330.12	
Thomas Robinson, oil,	3.00	
W. A. Sleeper, repairs,	8.55	
R. J. Macquire, services,	73.75	
C. Pelissier & Co., supplies and re- pairs,	69.63	
Geo. D. Huntley, repairs,	159.10	
C. H. Martin Company, supplies,	3.00	
Concord Lumber Company, lumber,	19.35	
Cushman Electric Company, repairs,	2.50	

Orr & Rolfe, repairs,	\$0.45
Norman Nicholson, shoeing,	31.90
G. S. Milton, repairs,	.75
A. H. Britton & Co., supplies,	60.27
A. P. Baker, lantern,	1.00
Eyeless Tool Company, picks,	23.16
J. W. Sanborn, hay,	98.10
C. E. Mills Oil Company, Oil,	28.44
C. C. Martin, shoeing,	34.10
E. C. Eastman, supplies,	5.60
Ira C. Evans Company, printing and supplies,	105.72
C. A. Eastman, straw,	10.01
N. E. T. & T. Co., telephone service,	41.19
C. F. Nichols & Son, supplies,	2.00
A. R. Andrews, supplies,	14.93
Ross W. Cate, shoeing and repairs,	38.15
Alfred Clark, Supt., cash paid out,	53.35
Alfred Clark, Supt., expense to con- vention,	65.00
A. C. Sanborn, hay,	50.16
Geo. F. Tandy, repairs concrete roadway,	1,191.14
F. W. Grafton, M. D., services,	5.00
C. H. Cook, M.D., services,	21.00
Miller & Hill, shoeing,	2.25
Snell & Hill, shoeing,	6.40
Globe Horseshoeing Shop, shoeing,	3.70
Mrs. C. H. Fellows, hay,	107.42
Tenney Coal Company, coal,	36.99
C. W. Drake, glass,	5.28
Concord Electric Company, lights,	232.96
Concord Water Works, water,	24.00
Harry G. Emmons, supplies,	5.42
Mrs. H. W. Lakin, laundry work,	1.50
Mrs. Helen Thompson, laundry work,	9.00
W. S. Dole, grain, etc.,	1,382.62

Page Belting Co., repairs,	\$15.31
Concord Foundry & Machine Co., repairs,	1.15
F. W. Paige, hay,	428.71
F. W. Paige, gravel,	4.50
B. F. Griffin, gravel,	.80
Perley Badger, gravel,	6.40
N. B. Cloutman, gravel,	6.10
N. B. Cloutman, hay,	82.86
Mark Upton, gravel,	1.70
William D. Welcome, gravel,	.90
Luther Nutting, gravel,	3.40
John Jordan, gravel,	3.00
George H. Cilley, gravel,	.70
Concord Fire Department, horse,	200.00
Concord Belting Co., supplies,	2.25
B. & M. R. R., freight,	16.72
Thompson Hoague Company, supplies,	7.21
C. H. Martin Company, supplies,	3.10
Concord Water Works, pipe,	61.24
Hutchinson Building Company, labor,	1.50
C. H. Dudley, tallow,	2.00
Ford & Kimball, sled shoes,	12.96
H. C. Sturtevant & Son, oil,	9.75
Concord Hardware Company, sup- plies,	154.73
Monitor & Statesman Co., advertis- ing,	.70
Cushman Electric Company, repairs,	.25
The Studebaker Corporation, oiler,	250.00
The Studebaker Corporation, repairs,	2.80
Lucien Pickering, labor, etc.,	4.60
	<hr/> \$15,295.23

CULVERTS.

Labor pay-rolls,	\$51.55	
Concord Hardware Company, pipe,	5.60	
	<u> </u>	57.15

SIDEWALKS AND CROSSINGS.

Labor pay-rolls, buildings,	\$425.54	
Labor pay-rolls, repairing,	300.67	
Concord Hardware Company, pipe,	6.72	
	<u> </u>	732.93

SIGNS.

Labor pay-rolls,	\$0.39	
Horne & Hall, signs,	3.87	
Fletcher Prescott Company, letter- ing signs,	8.40	
	<u> </u>	12.66

WATERING TROUGHS AND DRINKING FOUNTAINS.

Labor pay-rolls,	\$42.91	
Orr & Rolfe, repairs,	12.84	
Concord Foundry & Machine Co., repairs,	1.50	
A. H. Britton & Co., supplies,	1.50	
Concord Hardware Company, sup- plies,	.25	
H. Mueller Mfg. Co., valves,	11.97	
Concord Water Works, water,	180.00	
Mrs. Frank Bourdeau, use watering trough,	3.00	
George B. Quimby, use watering trough,	3.00	
	<u> </u>	256.97

BOARD OF PUBLIC WORKS.

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GUTTERS.

Labor pay-rolls, repairing,	\$58.10	
Labor pay-rolls, paving,	108.36	
Labor pay-rolls, cleaning,	2,047.58	
	<hr/>	2,214.04

BRIDGES.

Labor pay-rolls,	\$141.00	
Concord Electric Company, lights,	40.02	
Boutwell & Baker, lumber,	209.50	
Hugh Tallant, lumber,	20.40	
B. & M. R. R., freight,	12.00	
	<hr/>	422.92

MACADAM.

Labor pay-rolls, repairing,	\$178.25	
Barrett Mfg. Co., tarvia,	112.13	
B. & M. R. R., freight,	48.00	
Labor pay-rolls, tarring South Pem- broke Road,	393.71	
Barrett Mfg. Co., tarvia,	218.52	
B. & M. R. R., freight,	52.40	
A. C. Manning, gravel,	20.50	
Jeremiah Colby, gravel,	4.10	
Labor pay-rolls, oiling,	12.70	
	<hr/>	1,040.31

FENCES.

Labor pay-rolls,	\$12.64	
Page Belting Company, supplies,	.35	
	<hr/>	12.99

CITY OF CONCORD.

WINTER EXPENSE.

Labor pay-rolls, breaking roads,	\$211.09	
plowing walks,	139.61	
shoveling walks and		
crossings,	15.07	
sanding walks,	336.13	
leveling snow,	540.04	
rolling snow,	79.57	
draining gutters,	517.04	
snowing bridges,	7.23	
J. N. Abbott, sand,	12.50	
Alice G. Hutchinson, rent of land,	12.00	
	<hr/>	1,870.28

PENACOOK DISTRICT.

GENERAL REPAIRS.

Labor pay-rolls,	\$1,572.19	
E. D. Clough, gravel,	8.40	
C. M. & A. W. Rolfe, lumber,	15.81	
H. H. Chase, gravel,	7.30	
Edward Bacon, agent, gravel,	19.60	
D. F. Dudley, gravel,	39.60	
D. Warren Fox, supplies,	12.64	
Foote, Brown & Co., supplies,	1.95	
Thompson Hoague Company, pipe,	4.48	
J. E. Brown, repairs,	16.71	
George F. Tandy, repairs concrete		
roadway,	32.62	
F. M. Morse & Co., supplies,	.12	
	<hr/>	1,731.42

CULVERTS.

Labor pay-rolls,	\$56.89	
	<hr/>	56.89

SIDEWALKS AND CROSSINGS.

Labor pay-rolls, repairing,	\$168.80	
Labor pay-rolls, building,	14.71	
C. M. & A. W. Rolfe, lumber,	3.20	
	<hr/>	186.71

FENCES.

Labor pay-rolls,	\$13.11	
D. Warren Fox, supplies,	.22	
C. M. & A. W. Rolfe, lumber,	3.70	
	<hr/>	17.03

WATERING TROUGHS AND DRINKING FOUNTAINS.

Labor pay-rolls,	\$5.21	
Concord Water Works, water,	40.00	
C. M. & A. W. Rolfe, use watering trough,	3.00	
T. S. Holland, use watering trough,	3.00	
F. M. Morse & Co., supplies,	.34	
D. Warren Fox, supplies	.32	
	<hr/>	51.87

GUTTERS.

Labor pay-rolls, repairing,	\$43.20	
Labor pay-rolls, cleaning,	541.09	
	<hr/>	584.29

BRIDGES.

Labor pay-rolls,	\$37.57	
Penacook Electric Light Co., lights,	50.00	
Fowler Drug Company, paint,	1.35	
D. Warren Fox, supplies,	2.12	
C. M. & A. W. Rolfe, lumber,	40.90	
	<hr/>	131.94

MACADAM.

Labor pay-rolls, repairing,	\$25.55	
Labor pay-roll, tarring Penacook Road,	93.74	
Barrett Mfg. Co., tarvia,	170.89	
B. & M. R. R., freight,	33.30	
J. E. Shepard, agent, sand,	10.90	
	<hr/>	334.38

WINTER EXPENSE.

Labor pay-rolls, sanding walks,	\$81.32	
plowing walks,	84.56	
draining gutters,	88.40	
snowing bridges,	14.09	
rolling snow,	32.00	
leveling snow,	67.36	
shoveling walks and crossings,	55.80	
breaking roads,	52.67	
	<hr/>	476.20

WEST CONCORD DISTRICT.

Labor pay-rolls, general repairs,	\$723.54
sanding walks,	32.29
plowing walks,	36.39
breaking roads,	69.34
snowing bridges,	26.81
draining gutters,	55.94
leveling snow,	16.06
repairing sidewalks,	37.58
building sidewalks,	52.46
watering troughs,	22.24
fences,	7.52
cleaning gutters,	188.51
oiling road,	12.14

BOARD OF PUBLIC WORKS.

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Labor pay-rolls, tarring Penacook Road,	\$106.16	
Mrs. Jennie P. Fuller, gravel,	2.60	
J. M. Crossman, repairs,	26.93	
Concord Water Works, water,	40.00	
Orr & Rolfe, repairs,	2.93	
Alden Speare's Company, tasscoil,	301.33	
Barrett Mfg. Co., tarvia,	170.90	
B. & M. R. R., freight,	33.30	
	<hr/>	1,964.97

EAST CONCORD DISTRICT.

Labor pay-rolls, general repairs,	\$868.16	
breaking roads,	31.67	
draining gutters,	7.69	
sanding walks,	4.39	
leveling snow,	33.38	
plowing walks,	18.00	
watering troughs,	1.58	
culverts,	20.17	
bridges,	102.73	
Concord Hardware Company, sup- plies,	42.85	
M. J. Lacroix, repairs,	12.55	
J. T. Batchelder estate, gravel,	5.40	
Concord Electric Company, gravel,	11.90	
Samuel Potter, gravel,	2.50	
Frank Fletcher, use watering trough,	3.00	
Mary F. Robinson, water and re- pairs,	22.00	
Hugh Tallant, lumber,	101.03	
	<hr/>	1,289.00

PENACOOK INTERVALE DISTRICT.

Labor pay-rolls, general repairs,	\$31.25	
Ai J. Smith, use watering trough,	3.00	
	<u> </u>	34.25

EGYPT DISTRICT.

Labor pay-rolls, general repairs,	\$38.50	
N. P. Richardson, use watering trough,	3.00	
	<u> </u>	41.50

HOIT DISTRICT.

Labor pay-rolls, general repairs,	\$132.85	
Labor pay-rolls, breaking roads,	24.67	
Frank Mayo, use watering trough,	3.00	
	<u> </u>	160.52

VIRGIN DISTRICT.

Labor pay-rolls, general repairs,	\$44.78	
Labor pay-rolls, breaking roads,	34.00	
F. P. Virgin, use watering trough,	3.00	
	<u> </u>	81.78

SANBORN DISTRICT.

Labor pay-rolls, general repairs,	\$67.50	
Labor pay-rolls, breaking roads,	5.11	
	<u> </u>	72.61

POTTER STREET DISTRICT.

Labor pay-rolls, general repairs,	\$251.60	
		251.60

BOARD OF PUBLIC WORKS.

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HOT HOLE POND DISTRICT.

Labor pay-rolls, general repairs,	\$38.83	
Labor pay-rolls, breaking roads,	8.52	
	<u> </u>	47.35

HORSE HILL DISTRICT.

Labor pay-rolls, general repairs,	\$81.80	
Labor pay-rolls, breaking roads,	24.09	
H. H. Chase, gravel,	2.50	
	<u> </u>	108.39

NUMBER FOUR DISTRICT.

Labor pay-rolls, general repairs,	\$394.48	
Labor pay-rolls, breaking roads,	77.60	
Concord Hardware Company, pipe,	16.80	
F. E. Dimond, gravel,	9.10	
	<u> </u>	497.98
		<u> </u>
		\$30,036.16

CATCH BASINS.

Appropriation,	\$1,400.00
Expenditures—	

CENTRAL DISTRICT.

Labor pay-rolls, cleaning,	\$470.31
thawing,	53.09
repairing,	28.40
building,	88.32
Orr & Rolfe, repairs,	1.35
Concord Coal Company, slabs,	18.00
Mrs. Mary E. Bourne, brick,	106.40

CITY OF CONCORD.

Edson Mfg. Co., repairs,	38.43	
C. F. Thompson, rubber boots,	8.00	
Rowell & Plummer, mason work,	6.25	
Geo. D. Huntley, repairs,	7.20	
Woodworth & Co., cement,	30.75	
Concord Hardware Co., pipe,	51.78	
Concord Foundry & Machine Co., outfits,	41.70	
	<hr/>	949.98

PENACOOK DISTRICT.

Labor pay-rolls, cleaning,	\$100.45	
thawing,	26.72	
repairing,	10.67	
building,	54.36	
F. M. Morse & Co., supplies,	1.61	
W. H. Meserve, cement,	6.86	
N. H. Spinning Mills, brick,	2.70	
W. B. Cunningham, trucking,	2.25	
Concord Foundry & Machine Co., outfits,	9.00	
	<hr/>	214.62

WEST CONCORD DISTRICT.

Labor pay-rolls, building,	\$56.30	
Concord Hardware Company, pipe,	30.80	
Woodworth & Co., cement,	8.40	
Rowell & Plummer, mason work,	29.13	
Concord Foundry & Machine Co., outfits,	16.80	
	<hr/>	141.43
		<hr/>
		\$1,306.03
Transferred to general maintenance,		36.16
Transferred to trees,		57.81
		<hr/>
		\$1,400.00

TREES.

Appropriation,	\$3,000.00	
Transferred from catch basins,	57.81	
Transferred from permanent work, South Street,	45.13	
	<hr/>	\$3,102.94

Expenditures—

CENTRAL DISTRICT.

Labor pay-rolls, trimming and re- moving,	\$103.77
removing moth nests,	1,011.05
spraying trees,	314.72
Labor pay-rolls, burning moths,	42.20
W. B. Durgin Company, oil,	6.51
Concord Foundry & Machine Co., repairs,	1.28
Ira C. Evans Company, postals,	21.25
Brown & Batchelder, slickers,	6.00
Concord Belting Company, supplies,	.53
Geo. D. Huntley, repairs,	4.00
Concord Hardware Company, sup- plies,	59.47
Hutchinson Building Company, re- pairs,	.50
C. E. Staniels, insurance premium,	67.50
C. H. Martin & Co., arsenate lead,	68.75
I. E. Gray, gasoline,	15.00
Alfred Clark, Supt., cash paid out,	14.20
Geo. H. Richardson, gasoline,	2.25
C. Pelissier & Co., climbers,	5.40
N. H. Auto Company, oil,	2.00
A. H. Britton & Co., supplies,	399.73
Capital City Garage, gasoline,	.75

S. B. Church, repairs,	\$3.00	
Thompson Hoague Company, arsenate lead, etc.,	22.62	
	<hr/>	2,172.48

PENACOOK DISTRICT.

Labor pay-rolls, trimming and removing,	\$31.26	
spraying,	38.13	
collecting moth nests,	424.74	
burning moths,	12.40	
D. Warren Fox, supplies,	.94	
Hoyt Electrical Instrument Company, supplies,	2.40	
F. M. Morse & Co., supplies,	.36	
Concord Auto Sales Company, gasoline,	5.10	
Guy H. Hubbard, boxes,	1.50	
	<hr/>	516.83

WEST CONCORD DISTRICT.

Labor pay-rolls, trimming and removing,	\$6.78	
collecting moth nests,	128.91	
	<hr/>	135.69

EAST CONCORD DISTRICT.

Labor pay-rolls, trimming and removing,	\$4.09	
collecting moth nests,	272.85	
Concord Hardware Company, pruners,	1.00	
	<hr/>	277.94
		<hr/>
		\$3,102.94

SIDEWALKS AND CROSSINGS, NEW.

Appropriation,		\$1,000.00
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Expenditures—

CENTRAL DISTRICT.

Labor pay-rolls, grading for concrete		
walks,	\$14.54	
setting edgestone,	94.19	
P. Crowley, edgestone,	140.00	
St. Paul's School, edgestone,	10.00	
George F. Tandy, concrete walks,	316.46	
George F. Tandy, concrete crossings,	81.67	
	<hr/>	656.86

PENACOOK DISTRICT.

Labor pay-rolls, grading concrete		
walks,	\$76.34	
George F. Tandy, concrete walks,	196.53	
	<hr/>	272.87

WEST CONCORD DISTRICT.

George F. Tandy, concrete crossing,	\$19.80	19.80
		<hr/>
		\$949.53
Unexpended balance,		50.47
		<hr/>
		\$1,000.00

SIDEWALKS AND CROSSINGS, REPAIR.

Appropriation,		\$2,250.00
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Expenditures—

CENTRAL DISTRICT.

Labor pay-rolls, re-setting edgestone,	\$87.18	
George F. Tandy, repairs concrete walks,		1,920.74
George F. Tandy, repairs concrete crossings,	192.29	
	<hr/>	2,200.21

PENACOOK DISTRICT.

George F. Tandy, repairs concrete walks,	\$19.13	
George F. Tandy, repairs crossings,	28.82	
	<hr/>	47.95

		\$2,248.16
Unexpended balance,		1.84
		<hr/>
		\$2,250.00

PERMANENT WORK.

SOUTH STREET, PLEASANT TO FAYETTE.

Appropriation,		\$2,000.00
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Expenditures—

Labor pay-rolls, excavating,	\$402.32	
macadamizing,	867.72	
paving gutter,	134.15	

Massachusetts Broken Stone Com- pany, trap rock,	\$39.74	
Tenney Coal Company, coal,	49.20	
B. & M. R. R., freight,	61.05	
George F. Tandy, repairs concrete crossing,	115.68	
Barrett Mfg. Co., tarvia,	276.00	
T. H. Dunstane, curbing,	8.00	
	<hr/>	1,953.86
Transferred to trees,		45.13
Unexpended balance,		1.01
		<hr/>
		\$2,000.00

NORTH MAIN STREET, PEARL TO CHAPEL.

Appropriation,	\$2,700.00
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Expenditures—

Transferred to North State Street, West Con- cord,	2,700.00
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NORTH STATE STREET, WEST CONCORD.

Appropriation, transferred from North Main Street,	\$2,700.00
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Expenditures—

Labor pay-rolls, excavating,	\$129.85	
macadamizing,	1,937.49	
Shepard Bros., Co., oil,	5.40	
A. B. Black Road Machinery Com- pany, repairs,	28.50	
Tenney Coal Company, coal,	121.20	
Hutchinson Building Co., stakes,	6.00	
	<hr/>	2,228.44
Unexpended balance,		471.56
		<hr/>
		\$2,700.00

PITTSFIELD ROAD.

Appropriation,		\$500.00
Expenditures—		
Labor pay-rolls, grading,	\$457.39	
Adolphus Green, gravel,	36.00	
	<hr/>	493.39
Unexpended balance,		6.61
		<hr/>
		\$500.00

LOUDON ROAD.

Appropriation,		\$500.00
Expenditures—		
Labor pay-rolls, grading,	\$452.00	
A. B. Stearns, gravel,	38.60	
Adolphus Green, gravel,	8.80	
	<hr/>	499.40
Unexpended balance,		.60
		<hr/>
		\$500.00

PENACOOK ROAD.

Appropriation,		\$2,000.00
Expenditures—		
Labor pay-rolls, excavating,	\$21.40	
macadamizing,	1,336.59	
Barrett Mfg. Co., tarvia,	457.73	
B. & M. R. R., freight,	55.98	
Tenney Coal Company, coal,	92.77	
E. L. Davis, coal,	30.03	
	<hr/>	1,994.50
Unexpended balance,		5.50
		<hr/>
		\$2,000.00