

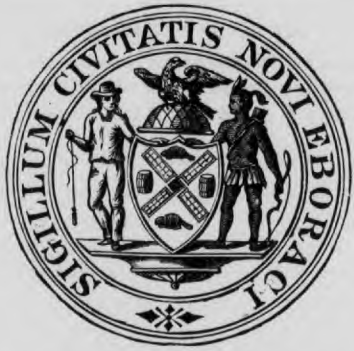
# THE CITY RECORD.

## OFFICIAL JOURNAL.

VOL. XIV.

NEW YORK, SATURDAY, AUGUST 14, 1886.

NUMBER 4,024.



### DEPARTMENT OF PUBLIC WORKS.

#### Report for the Quarter ending June 30, 1886.

DEPARTMENT OF PUBLIC WORKS,  
COMMISSIONER'S OFFICE, No. 31 CHAMBERS STREET,  
NEW YORK, July 20, 1886.

Hon. WILLIAM R. GRACE, Mayor :

SIR—In compliance with section 49 of the New York City Consolidation Act of 1882, I have the honor to submit the following report of the transactions of the Department of Public Works for the quarter ending June 30, 1886.

#### SUMMARY OF EXPENDITURES.

(Being amount of requisitions drawn on the Comptroller.)

On account of appropriations raised by taxation.....	\$538,439 69
On account of Assessment Fund, for street improvements (under "Local Improvement Fund").....	179,410 50
On account of Funded Debt, for improvement and extension of water supply.....	80,135 01
On account of Special Fund, for restoring pavements over street openings.....	10,280 86
On account of Revenue Bonds, for furnishing and setting water-meters.....	2,054 21
Total.....	\$810,320 27

#### EXPENDITURES FOR SIX MONTHS ENDING JUNE 30, 1886.

Appropriation Account.....	\$845,709 88
Assessment or Local Improvement Fund.....	251,875 50
Funded Debt, water supply.....	138,573 24
Revenue Bonds, for water-meters.....	7,319 70
Special Fund, restoring pavements.....	14,345 16
Total.....	\$1,257,823 48

#### EXPENDITURES FOR SIX MONTHS ENDING JUNE 30, 1883, 1884, 1885, 1886.

Six months ending June 30, 1883.....	\$1,787,951 45
" " 1884.....	1,903,259 90
" " 1885.....	1,686,407 18
" " 1886.....	1,257,823 48

This shows the following reductions below the expenditures of the corresponding periods of the three preceding years :

Below first six months of 1883.....	\$530,127 97
" " 1884.....	645,436 42
" " 1885.....	428,584 70

#### SUMMARY STATEMENT OF CONTRACTS.

Contracts entered into during the Quarter.

11 paving contracts, estimated cost.....	\$100,216 41
4 sewer contracts, estimated cost.....	23,957 29
3 regulating and grading contracts, estimated cost.....	35,459 94
3 contracts for laying water-mains, estimated cost.....	71,968 20
6 miscellaneous contracts, estimated cost.....	19,941 00
27 contracts, estimated cost.....	\$251,542 84

#### Contracts Completed.

3 paving contracts, cost.....	\$19,238 31
2 sewer contracts, cost.....	3,773 16
4 regulating and grading contracts, cost.....	502,260 05
3 miscellaneous contracts, cost.....	7,890 00
12 contracts, total cost.....	\$533,161 52

#### BUREAU OF CHIEF ENGINEER, CROTON AQUEDUCT.

The rain-fall in the Croton water-shed and in the Bronx river water-shed for the past three months has been abundant, and a surplus has been constantly running over the Croton dam into the Hudson river. The storage reservoirs and lakes available for the city's water supply are all filled to high-water mark, affording reasonable assurance against any failure to supply the present aqueduct to its full capacity during the remainder of the summer season.

The rain-fall for the three months at the several stations was as follows :

LOCATION OF RAIN GAUGES.	APRIL. INCHES.	MAY. INCHES.	JUNE. INCHES.	TOTAL INCHES.
Boyd's Corners Reservoir.....	3.16	4.54	3.09	11.24
South East Reservoir.....	3.56	4.49	3.36	11.41
Croton Dam.....	5.09	3.95	3.35	12.39
Kensico Reservoir.....	40.3	4.18	4.34	12.55
Central Park Reservoir.....	3.97	6.13	4.23	14.33

In the repairs and maintenance of the Aqueduct, the following quantities of work were done :

1,998 cubic yards earth excavated.  
675 cubic yards stone quarried.  
1,850 cubic yards masonry wall built.

6,385 lineal feet fences built.

440 cubic yards embankments built.

1,629 square yards embankments sodded.

The aggregate amount of water drawn from the Bronx river for the city supply during the three months is 1,453,000,000 gallons, or an average of 15,967,000 per day. The storage reservoirs at Kensico and at Rye Ponds, and the conduit thence to the city, are in good condition. The work under the contract for building the receiving and distributing reservoir at Williamsbridge has progressed very favorably since April last. The report of the Commissioners to appraise values and damage for rights, etc., in the vicinity of Williamsbridge Reservoir have made their report, which has been confirmed by the Supreme Court. Two Commissions to appraise damage on the Bronx river, below White Plains, have not yet made their report.

The following pipes were laid during the quarter in thirty different streets and avenues, in extending and improving the water service :

15,272 lineal feet 12-inch pipe.

25,688 lineal feet 6-inch pipe.

40,960 lineal feet pipe, or  $7\frac{3}{4}$  miles.

In connection with this work 57 additional stop-cocks and 70 fire-hydrants were placed. The system for distributing water within the city now includes 590  $\frac{1}{10}$  miles of water pipes, with 6,171 stop-cocks and 7,673 fire-hydrants.

During the quarter 256 additional water-meters were placed, making 14,200 water-meters in use on June 30, 1886. The inspectors on waste of water made 9,261 inspections of buildings, showing 132 cases of defects in plumbing or water fixtures, which have been remedied. In my last quarterly report I stated that the excessive waste in consumption of water during extreme cold weather had reduced the depth of water in the city reservoirs by 6 feet 8 inches before the advent of mild weather brought about the cessation of the waste. In the early part of spring the city reservoirs were replenished to the depth of 10 feet ; but with the commencement of warm weather the excessive use and waste of water was resumed, and recently the excess of consumption of water over the amount received through the Croton Aqueduct and the Bronx river conduit has been so great as to reduce the depth of water in the city reservoirs nearly two inches per day, showing an excess of consumption of 5,000,000 gallons per day over the quantity received through the two conduits. With this increase in consumption of water and decrease in the depth of water in the city reservoirs, the pressures in the delivery of water throughout the city are correspondingly reduced.

#### BUREAU OF WATER PURVEYOR.

The following new pavements, payable by assessment, were completed during the quarter :

Eighty-second street, from Avenue A to Avenue B ;

Ninety-first street, from Second to Fourth avenue ;

One Hundred and Thirty-second street, from Seventh to Eighth avenue ;

—covering an area of 9,841 square yards.

The contract for repaving Twenty-sixth street, from Eighth to Tenth avenue, covering 5,398 square yards, was also completed.

At the beginning of the quarter the force employed on the repairs of pavements numbered 45 pavers, rammers and laborers, and 4 carts. This force was gradually increased until at the close of the quarter it numbered 302 pavers, rammers and laborers, and 58 carts. The area of pavement repaired and relaid by this force during the quarter is 34,105 square yards. Permits were issued to citizens to repair pavements at their own expense in twenty-seven different locations.

The following shows the operations of private corporations and parties in laying and repairing gas and steam pipes, and making and repairing house-connections with steam and gas mains, water-pipes and sewers :

4,740 openings in streets made for repairs and for house-connections.

1,844 notices sent from the Department to repair defects in pavements over such openings.

1,199 defects in pavements repaired in compliance with notices.

10,770 miles of gas, steam and salt-water pipes laid.

The only surface railway work in progress is the construction of the cable railway on One Hundred and Twenty-fifth street, from Eighth avenue to the Harlem river.

3 underground electric conduits are being laid by the Commercial Cable Company on Second avenue, from Twentieth street to Ninetieth street, in place of the Siemen's cable, which has been destroyed by leakage from gas-mains.

#### REPAVEMENT OF FIFTH AVENUE.

This work was authorized by chapter 371 of the Laws of 1885, which provided that the pavement be of granite blocks of the best description, material and workmanship, to be laid in the most substantial manner and with the best foundation ; that the Commissioner of Public Works should advertise in the CITY RECORD at least ten days for plans, proposals and specifications for such pavement, and that such plans, proposals and specifications, when received, be submitted unopened to a board consisting of the Mayor, the Comptroller and the Commissioner of Public Works, said board to select the plan, proposal and specification which in their judgment would best secure the purposes of the act. In answer to the advertisement seven proposals were received and were submitted to the board on July 20, 1885. After various delays resulting from differences of opinion as to the proper construction of the act, the board finally passed a resolution on September 17, 1885, accepting the proposal, plan and specification submitted by Mr. Matthew Baird. One of the unsuccessful bidders then applied to the courts for an injunction restraining the Commissioner of Public Works from executing the contract, but the application was denied by the Supreme Court, and pending the appeal of the applicant to the Court of Appeals the contract was signed and executed October, 1885. The winter season was then near at hand, and it was deemed prudent not to begin the work until spring, so as to avoid the interference with public travel which would ensue from a partial performance of the work and its suspension during the winter season. The work was begun April 5 last, in two sections, one beginning at Thirty-seventh street and proceeding northward, and the other beginning at Ninetieth street and proceeding southward. At the close of the quarter the new pavement had been laid from Thirty-seventh street to Forty-fourth street, and from Ninetieth street to Eighty-fifth street. Though the work has been severely criticised in a report made by an engineer employed by the Commissioners of Accounts, and also by the engineer employed by the Comptroller, I have as yet been unable to discover any facts to show that the work has not been done substantially in accordance with the contract and specifications. Special vigilance has been and will continue to be exercised to secure the best possible performance of this important improvement.

The average force employed, under the direction of the Water Purveyor, in the repairs and renewal of pipes, stop-cocks and fire-hydrants, during the quarter, was 75 mechanics and laborers and 10 carts. The principal items performed by this force are :

389 defects in pipes and stop-cocks repaired.

853 fire-hydrants repaired.

105 new fire-hydrants erected in place of old ones.

151 water-taps shut off on account of leaks in service pipes.

584 defects in pavements repaired.

Special attention has been given to the care of the public drinking-hydrants. 10 new drinking-hydrants were placed, and 67 old drinking-hydrants have been repaired.



## BUREAU OF SEWERS.

During the quarter work was in progress on the construction of 14 sewers under contracts made by the Department, and on 8 sewers which are being built by property owners, at their own expense, under permits from the Department, and under its supervision. Two sewers built by property owners have been completed, viz.:

- In Seventy-ninth street, from Ninth avenue westerly.
- In One Hundred and Forty-seventh street, between Tenth and St. Nicholas avenues.
- Two sewers under Department contracts have also been completed, viz.:
- In Fourth avenue, between Fifty-fourth and Fifty-fifth streets.
- In Attorney street, between Stanton and Rivington streets.

The aggregate length of sewers built under the several contracts and permits is 2,370 lineal feet.

The sewerage system of the city south of Harlem river now comprises 410<sup>2</sup>/<sub>100</sub> miles of sewers and 5,040 receiving-basins.

The following are the principal items of work done in repairing and cleaning sewers:

- 1,441 lineal feet of sewers repaired.
- 118 lineal feet culverts rebuilt.
- 120 lineal feet spur-pipe laid.
- 1 receiving-basin rebuilt.
- 50 receiving-basins repaired.
- 114 manholes repaired.
- 20 new basin heads placed.
- 41 new basin covers placed.
- 55 new manhole heads placed.
- 195 new manhole covers placed.
- 1,545 cubic yards of earth excavated and refilled.
- 633 square yards pavement relaid.
- 20,964 lineal feet of sewers cleaned.
- 503 receiving-basins and culverts cleaned.
- 1,697 cart-loads of sewer deposits removed.

## BUREAU OF STREET IMPROVEMENTS.

The following regulating and grading works were finished during the quarter: Kingsbridge road, from One Hundred and Fifty-fifth street to One Hundred and Ninetieth street.

- Washington street, from Twelfth street to Fourteenth street.
- One Hundred and Eighteenth street, from Fourth avenue to Sixth avenue.
- Nine other grading works were in progress at the close of the quarter.
- The following are the aggregate quantities done in the several works:
- 15,935 cubic yards earth excavated.
- 35,743 cubic yards rock excavated.
- 47,751 cubic yards filling placed in embankments.
- 4,691 lineal feet curb-stone set.
- 18,650 square feet flagging laid.
- 827 lineal feet stone culvert built.
- 1,153 cubic yards masonry wall built.

## BUREAU OF STREETS AND ROADS.

Repairs have been made on the following macadam roadways:

- Western Boulevard, from Fifty-ninth to One Hundred and Fifty-fifth street.
- Avenue St. Nicholas, from One Hundred and Tenth street to One Hundred and Fifty-fifth street.
- Tenth avenue, from One Hundred and Fifty-first street to One Hundred and Sixty-second street.
- Seventy-second street, from Ninth avenue to Riverside Drive.
- One Hundred and Tenth street, from Pleasant avenue to Riverside Drive.
- One Hundred and Forty-fifth street, from Eighth avenue to the Boulevard.
- Sixth avenue, from One Hundred and Tenth street to Harlem river.
- Seventh avenue, from One Hundred and Tenth street to Harlem river.
- Avenue A, from Fifty-seventh street to Eighty-sixth street.
- One Hundred and Twenty-fourth street, from Pleasant avenue to Seventh avenue.
- One Hundred and Sixteenth street, from Pleasant avenue to Seventh avenue.

Minor repairs were made on all the other macadam roadways of the city.

The roadways of Sixth, Seventh and St. Nicholas avenues, which are so extensively used for pleasure driving, have received special attention, and are now in much improved condition. New repair shops have been built for the force employed in the maintenance of the macadam roadways and of unpaved streets, on the piece of ground bounded by Eighth and St. Nicholas avenues, One Hundred and Nineteenth and One Hundred and Twentieth streets. They were finished and ready for occupation at the close of the quarter.

## BUREAU OF LAMPS AND GAS.

The following changes in the public lamps were made during the three months:

- 67 new gas-lamps erected and lighted.
- 64 new naphtha-lamps placed and lighted.
- 3 new electric-lights placed.
- 51 old gas-lamps relighted.
- 63 gas-lamps discontinued.

On June 30 there were 23,732 gas-lamps, 711 electric-lights and 114 naphtha-lamps in use on the streets, parks, places, docks and bridges of the city.

## BUREAU OF REPAIRS AND SUPPLIES.

The principal items of repairs made in public buildings during the quarter are as follows:

*New Court-house.*

2 additional rooms in the rotunda fitted up for the County Clerk's Office; 1 new water-closet, urinal and wash-basin placed; cleaning and painting the walls and ceilings in the offices of the Naturalization Bureau, and in Parts I. and II. of the Court of Common Pleas; new grate bars placed in the furnaces in the basement.

*City Hall Building.*

Cleaning and painting walls, ceilings and woodwork in the quarters occupied by the Police, and in the Reporter's Room.

*Brown-stone Building.*

Repairing and improving the steam apparatus and the passenger elevator. Under a resolution of the Common Council a contract has been made to apply to this building a new system of ventilation, and the work is nearly completed.

*No. 31 Chambers Street.*

Painting the walls in the hallways and lobbies and the woodwork in several of the rooms and offices; building closets for the safe keeping of documents in the vault.

*Civil and Police Courts.*

Repairing and painting roof and gutters of Third District Court-house. Cleaning and painting walls, ceilings and woodwork and repairing plaster in Fifth District Civil Court. Repairing roof, flooring and windows in Seventh District Court-house.

*County Jail.*

The walls and ceilings of the corridors, cells and galleries have been thoroughly cleaned and whitewashed and the woodwork painted.

*Public Markets.*

Repairing the roofs of Jefferson, Clinton, Fulton and Centre Markets. Replanking a portion of the Vesey street pier, at West Washington Market.

Minor repairs have been made in all the other public buildings under the charge of the Department and in several of the armories. The demands for office furniture and supplies for the various public offices and courts have been answered as promptly and fully as the limited appropriation for that purpose would admit.

*Public Baths.*

The eleven free floating baths were put in thorough repair. New tin roofs were placed on two of the baths, and all of them were painted inside and outside. The tanks supporting superstructures were recaulked, and the baths were put in their respective berths for the bathing season as rapidly as the repairs were finished, beginning on June 7 and ending with the last bath put in position on June 19. Up to the latter part of June the weather was so cool and moist that there was very little demand for bathing and the attendance was small. The statement of the attendance will be included in the next quarterly report.

## BUREAU OF INCUMBRANCES.

The operations of this Bureau for the quarter are summarized as follows: 302 complaints of obstructions received and attended to; 421 seizures of obstructions made; 2,563 permits issued to place building materials on streets; 11 permits issued to cut down shade trees; 331 miscellaneous permits issued.

## BUREAU OF WATER REGISTER.

Collections of revenue from the water service for the three months are as follows:

For water rents .....	\$694,791 53
For penalties on water rents .....	1,759 80
For permits to tap water-pipes .....	3,992 00
Total .....	\$700,543 33

## MISCELLANEOUS REVENUE.

The Department also collected and paid into the City Treasury:

For sewer permits .....	\$10,054 71
For vault permits .....	21,052 05
From redemption and sale of street obstructions .....	374 08
From sales at public auction .....	359 11
From work and material furnished to citizens .....	60 53
For restoration of pavements over street openings .....	10,148 00
For furnishing and setting water-meters .....	3,092 83
Total .....	\$45,141 31

From the day I entered upon the duties of this office it has been my constant endeavor to conduct its business with the utmost economy consistent with efficiency, and to confine the force employed by it and the expense incurred for salaries and wages to the lowest practicable limit. It would be impossible for any Commissioner of Public Works to fully accomplish this object without the active sympathy and co-operation of his principal assistants and subordinates. In the latter part of 1885 and the early part of this year I was able to make some progress toward that end by making such changes and reductions as commended themselves to my judgment, from my own personal observation. Having the fullest confidence in the ability, experience and judgment of the present Deputy Commissioner of Public Works to deal with this as well as with any other subject connected with the business of the Department, I directed him, upon his appointment in February last, to make a thorough investigation as to the duties, qualifications and compensation of the officers and employees of the Department and the organization and work of the different bureaus, and to report to me such changes and reductions as he could recommend. Under date of July 6th, instant, he made the following report, recommending reductions in three of the bureaus, effecting an aggregate saving in salaries and wages of \$65,750 per annum:

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

DEAR SIR—When you did me the honor of asking me to accept the position of Deputy Commissioner of Public Works, you explained to me the strong impression you entertained that there were employed in the Department more subordinates than were required to efficiently perform the public services, and that the strongest reason which induced you to make a change in the office of Deputy Commissioner was that you might thereby secure an impartial investigation into the duties really required and services actually rendered in the various bureaus of the Department, and the adequacy or the excess of the compensation paid for the services required and rendered.

Upon accepting the position tendered to me, I was especially instructed by you to proceed with such investigations as I might consider necessary to fully satisfy myself as to the work which requires to be performed in conducting the public business in the Department, the number of efficient employees required to perform this work in each bureau, and the compensation that would be fair and reasonable for the services actually required—your desire, as you expressed it, being that the administration of the affairs of the Department, both as to force and expense, should be placed upon practically the same basis as if the services were to be rendered for, and the expenses incurred therefor were to be paid by, a private individual instead of a municipal corporation.

In obedience to the instructions thus received I have, since I assumed the office of Deputy Commissioner, labored to make myself familiar with the duties required to be performed in each of the bureaus of the Department, and with the duties required of, and services actually rendered by, each of the employees in each of these bureaus, so as to satisfy myself as to the force necessary to be employed in each bureau for the efficient performance of the public works and duties under its charge, and the compensation which would be fair and reasonable, and at the same time be substantially liberal, in payment for efficient services.

The investigation which I have made to enable me to obtain the facts as to these very important matters has been more protracted than I anticipated, owing to the care required to avoid in any recommendations which I might make any impairment of the efficient administration of the Department.

Upon this point I am fully satisfied as to at least three of the bureaus, and as to these I beg to submit for your consideration and action the following report:

## FIRST—BUREAU OF CHIEF ENGINEER CROTON AQUEDUCT.

The Engineer force in this Bureau at present is as follows:

Chief Engineer .....	\$7,000 00
Consulting Engineer .....	5,000 00
First Assistant Engineer .....	4,500 00
1 Assistant Engineer .....	5,000 00
Topographical Engineer .....	3,000 00
3 Assistant Engineers, at \$3,000 each .....	9,000 00
1 Assistant Engineer .....	2,400 00
1 Assistant Engineer .....	2,000 00
6 Assistant Engineers, at \$1,800 each .....	10,800 00
5 Transitsmen, at \$1,500 each .....	7,500 00
1 Rodman, at \$4 per day, 308 days .....	1,232 00
2 Rodmen, at \$1,200 each .....	2,400 00
9 Rodmen, at \$1,000 each .....	9,000 00
3 Levelers, at \$1,400 each .....	4,200 00
2 Chainmen, at \$3 per day each .....	1,848 00
5 Levelers, at \$1,200 each .....	6,000 00
1 Chainman, at \$2.50 per day .....	770 00
2 Chainmen, at \$900 each .....	1,800 00
3 Flagmen, at \$900 each .....	2,700 00
1 Flagman, at \$2.50 per day .....	770 00
1 Draughtsman .....	2,000 00
1 Draughtsman .....	1,800 00



1 Draughtsman .....	\$1,000 00
2 Draughtsmen, at \$4 per day each .....	2,464 00
2 Draughtsmen, at \$3.50 per day each .....	2,156 00
1 Axeman, at \$3.50 per day .....	1,078 00
3 Axemen, at \$3 per day each .....	2,772 00
46 Axemen, at \$2.50 per day each .....	35,420 00
4 Laborers, at \$4 per day each .....	2,464 00
Making a total of .....	\$138,074 00

per annum for the salaries of the engineers and their subordinates in this Bureau.

In my judgment the following would be a sufficient force to perform all the necessary engineering work connected with this Bureau, and the compensation which should be paid for the performance of the work :

New York Office.

Chief Engineer .....	\$7,000 00
First Assistant Engineer .....	5,000 00
1 Assistant Engineer in charge New York work, laying pipes .....	3,000 00
1 Assistant Engineer for general work .....	1,800 00
2 Rodmen, at \$1,200 and \$1,000 .....	2,200 00
1 Chainman .....	900 00
2 Axemen, at \$3 and \$3.50 per day .....	2,002 00
2 Draughtsmen, at \$4 per day and at \$1,000 per annum .....	2,232 00

Yonkers Office.

1 Assistant Engineer in charge .....	3,000 00
1 Rodman, at \$4 per day .....	1,232 00
1 Transitman .....	1,500 00
1 Leveler .....	1,200 00
3 Axemen, at \$2.50 per day each .....	2,310 00
1 Draughtsman in charge of office .....	2,000 00
4 Draughtsmen, at \$1,800, \$1,232, \$1,078 and \$1,078 .....	5,188 00
2 Computers, rank as Rodmen, \$1,000 each .....	2,000 00

Bronx River and Williamsbridge.

1 Assistant Engineer in charge .....	3,000 00
1 Assistant Engineer .....	1,800 00
1 Leveler .....	1,200 00
1 Rodman .....	1,200 00
4 Axemen, at \$2.50 per day each .....	3,080 00
1 Laborer, at \$2 per day .....	616 00

Katonah and Croton Valley.

1 Assistant Engineer in charge of topographical engineering .....	3,000 00
1 Assistant Engineer .....	2,000 00
1 Transitman .....	1,500 00
1 Leveler .....	1,200 00
1 Rodman .....	1,000 00
2 Chainmen, at \$3 and \$3.50 per day .....	1,694 00
5 Axemen, 4 at \$2.50 and 1 at \$3 per day .....	4,004 00
3 Laborers, at \$2 per day .....	1,848 00

Detailed for Corporation Counsel.

1 Leveler .....	1,400 00
1 Rodman .....	1,000 00
1 Chainman .....	924 00
1 Axeman .....	770 00

Deputy Sheriffs in Charge of Dam, etc.

4 Axemen, at \$2.50 per day .....	3,080 00
Total .....	\$76,880 00

In addition to this force, it would be well, I think, to keep as a reserve force, to be used as needed, about 6 Axemen, at \$2.50 per day each..... 4,620 00

Making a total of..... \$81,500 00

Which, being deducted from the present amount, would secure a saving of \$56,574 in the engineering expenses of this Bureau.

This Bureau also has charge of the inspection of water-meters, for which there are employed at present 20 Inspectors, at \$3 per day, making per annum..... \$18,480 00  
There are about 15,000 meters in the city, and 14 Inspectors should be able to read all these meters at least once in every two months and assist in clerical work in the office. 14 Inspectors, at \$3 per day, would be per annum..... 12,936 00

Which would be a saving of..... \$5,544 00

I am fully convinced that these reductions, aggregating \$62,118 per annum, can be made in this Bureau without in the least impairing the efficient performance of its work.

SECOND—BUREAU OF LAMPS AND GAS.

In this Bureau there are four Inspectors, at \$900 per annum. I believe that two should be able to perform all the work, but I think they should be paid \$1,200 per year, to enable them to ride from point to point. This would save \$1,200 per annum.

THIRD—BUREAU OF SEWERS.

In this Bureau there are five Draughtsmen. I believe that one of these could be dispensed with without injury to the public service, saving..... \$1,200 00  
And 1 Inspector of Sewer Connections, at..... 1,232 00

Making a saving of..... \$2,432 00

These reductions aggregate :

Chief Engineer's Bureau .....	\$62,118 00
Lamps and Gas .....	1,200 00
Sewers .....	2,432 00

Grand total..... \$65,750 00

I have not yet fully examined into all the facts connected with the administration of the Bureau of Repairs and Supplies, the Bureau of Streets and Roads, the Bureau of Water Register, the Bureau of Water Purveyor, the Supply of Water to Shipping and the Free Floating Baths. In the course of a few weeks at farthest, I think I shall be in a position to report to you upon the force necessary to be employed in each of these bureaus and offices in conducting the public business intrusted to them respectively, and as to the compensation which ought to be paid for the efficient administration of their duties, and when my report as to these various matters is prepared, the same shall be forthwith laid before you. Meantime, in order that there may be no delay in whatever action you may consider proper and necessary upon my investigation into the three bureaus now specially submitted to you, I think it proper to submit this as an ad interim report.

Respectfully yours,

WM. V. SMITH, Deputy Commissioner of Public Works.

I promptly approved these recommendations and directed that they be carried into effect as rapidly as it could be done without disturbing the business of the Department.

Further detailed information as to the operations of the Department will be found in the following documents accompanying this report :

- Document A—Statement of appropriations and expenditures.
- Document B—Detailed statement of expenditures.
- Document C—Statement of contracts made and contracts completed.
- Document D—Report of Chief Engineer of the Croton Aqueduct.
- Document E—Report of the Water Purveyor.
- Document F—Report of the Engineer in Charge of Sewers.
- Document G—Report of the Superintendent of Street Improvements.
- Document H—Report of Superintendent of Streets and Roads.
- Document I—Report of Superintendent of Lamps and Gas.
- Document K—Report of Superintendent of Repairs and Supplies.
- Document L—Report of Superintendent of Incumbrances.
- Document M—Report of Water Register.

Very respectfully,

ROLLIN M. SQUIRE, Commissioner of Public Works.

Document "A."

Showing Titles of Appropriations ; Appropriations with Transfers of 1885 ; Requisitions on 1885 to April 1, 1886 ; Requisitions on 1885 in Second Quarter, 1886 ; Balances of 1885 on July 1, 1886 ; Appropriations for 1886 ; Requisitions, First Quarter of 1886 ; Requisitions, Second Quarter of 1886 ; Balances, July 1, 1886 ; the Titles and Expenditures on Trust and Special Accounts, and Receipts for the first Six Months of 1886.

TITLES OF APPROPRIATIONS.	Appropriations, including Transfers, 1885.	Requisitions from Jan. 1, 1885, to April 1, 1886.	Requisitions on Liabilities of 1885 during Second Quarter of 1886.	Balances of 1885 on July 1, 1885.	Appropriations for 1886.	Requisitions, First Quarter, 1886.	Requisitions, Second Quarter, 1886.	Balances, July 1, 1886.
Aqueduct—Repairs, Maintenance and Strengthening.....	\$227,000 00	\$226,290 11	\$264 51	\$445 38	\$225,000 00	\$22,025 05	\$45,881 13	\$157,093 82
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.....	23,000 00	22,999 90	.....	10	25,000 00	6,306 93	6,324 88	12,368 19
Boring Examinations for Grading and Sewer Contracts.....	.....	.....	.....	.....	10,000 00	.....	369 12	9,630 88
Boulevards, Roads and Avenues, Maintenance of.....	75,000 00	74,107 19	.....	892 81	80,000 00	6,769 87	24,798 66	48,431 47
Boulevards, Roads and Avenues, Maintenance of—Salaries.....	2,000 00	1,995 00	.....	5 00	.....	.....	.....	.....
Bronx River Works—Maintenance and Repairs.....	10,800 00	10,583 46	.....	216 54	17,990 00	3,299 00	3,518 00	11,173 00
Bronx River Works—Maintenance and Repairs—Salaries.....	1,200 00	1,100 00	.....	100 00	3,650 00	825 00	825 00	2,000 00
Contingencies—Department of Public Works.....	4,000 00	3,679 02	96 84	224 14	4,000 00	82 50	710 22	3,207 28
Flagging Sidewalks and Fencing Vacant Lots, etc.....	1,200 00	1,196 88	.....	3 12	1,000 00	112 22	7 40	880 38
For an Iron Awning around Jefferson Market Building.....	2,500 00	2,457 00	.....	43 00	.....	.....	.....	.....
For Additions to the Brown-stone Building .....	.....	.....	.....	.....	35,000 00	.....	425 00	34,575 00
For Repairs and Alterations on Essex Market Court-house.....	4,600 00	4,440 93	.....	159 07	.....	.....	.....	.....
For Repairs to Seventh Regiment Armory Building.....	.....	.....	.....	.....	3,000 00	.....	.....	3,000 00
For Repairs on Essex Market Building.....	4,500 00	4,413 36	.....	86 64	.....	.....	.....	.....
For Street Signs on Buildings and Public Lamps.....	.....	.....	.....	.....	5,000 00	.....	570 00	4,430 00
Free Floating Baths.....	15,500 00	14,464 12	1,034 30	1 58	15,000 00	.....	2,548 18	12,451 82
Free Floating Baths—Salaries.....	20,000 00	19,999 00	.....	1 00	20,000 00	624 00	1,098 00	18,278 00
Lamps and Gas and Electric Lighting.....	700,700 00	700,671 21	.....	28 79	718,800 00	119,433 68	178,103 03	421,263 29
Lamps and Gas and Electric Lighting—Salaries.....	6,300 00	5,983 28	.....	316 72	5,400 00	1,249 98	1,299 99	2,750 03
Laying Croton Pipes.....	186,000 00	136,737 71	22,778 55	26,483 74	186,000 00	4,159 11	18,568 86	163,272 03
Laying Croton Pipes—Salaries.....	12,890 00	12,887 16	.....	2 84	14,000 00	3,700 49	3,957 49	6,342 02
Public Buildings—Construction and Repairs.....	50,000 00	49,824 68	7 00	168 32	57,000 00	5,157 47	21,248 09	30,594 44
Public Drinking-hydrants .....	6,000 00	4,595 30	612 50	792 20	5,000 00	119 51	396 64	4,483 85
Public Drinking-hydrants—Salaries.....	.....	.....	.....	.....	1,000 00	131 71	333 32	534 97
Removing Obstructions in Streets and Avenues.....	6,884 00	6,884 00	.....	.....	6,884 00	535 00	803 67	5,545 33
Removing Obstructions in Streets and Avenues—Salaries.....	3,116 00	3,115 92	.....	.....	3,116 00	.....	675 00	1,282 67
Repairing and Renewal of Pipes, Stop-cocks, etc.....	143,500 00	143,280 93	142 05	77 02	131,500 00	29,849 83	34,991 35	66,658 82
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....	46,075 00	46,070 60	.....	4 40	43,500 00	10,443 33	11,207 07	21,849 60
Repairs and Renewal of Pavements and Regrading.....	192,500 00	192,417 75	.....	82 25	238,000 00	4,958 01	17,674 86	215,367 13
Repairs and Renewal of Pavements and Regrading—Salaries.....	8,600 00	8,486 99	.....	113 01	12,000 00	1,353 00	3,074 50	7,572 50
Repairing Fifth Avenue, chapter 371, Laws of 1885.....	150,000 00	.....	.....	150,000 00	294,000 00	.....	17,844 73	276,155 27
Repairing Streets and Avenues.....	200,000 00	181,429 04	13,173 82	5,397 14	200,000 00	.....	1,618 55	198,381 45
Repairing Streets and Avenues—Salaries.....	6,900 00	4,890 00	.....	2,010 00	8,000 00	.....	126 00	7,874 00
Repairing Streets and Avenues Unpaved, Maintenance and Sprinkling .....	25,000 00	24,931 61	.....	68 39	25,000 00	1,724 25	6,017 71	17,258 04
Roads, Streets and Avenues Unpaved, Maintenance and Sprinkling .....	85,000 00	84,073 44	.....	26 56	85,000 00	21,078 29	19,923 21	43,998 50
Salaries—Department of Public Works.....	110,000 00	109,872 46	114 00	13 54	110,000 00	19,644 87	27,230 80	63,124 33
Sewers—Repairing and Cleaning.....	9,000 00	8,998 48	.....	1 52	9,000 00	2,237 00	2,073 00	4,600 00
Sewers—Repairing and Cleaning—Salaries.....	15,000 00	14,999 54	.....	46	15,000 00	3,765 12	2,753 00	8,481 88
Sewerage System—Salaries.....	2,000 00	1,690 00	.....	910 00	3,000 00	167 00	378 60	2,454 40
Street Improvements—For Surveying, Monumenting, etc.....	131,000 00	128,741 17	1,028 39	1,230 44	100,000 00	24,871 18	25,816 26	49,312 56
Supplies for and Cleaning Public Offices.....	26,935 00	26,915 42	.....	19 58	25,000 00	6,435 61	6,320 36	12,244 03
Supplies for and Cleaning Public Offices—Salaries.....	14,500 00	14,499 94	.....	6 06	15,000 00	2,536 56	1,734 50	10,728 94
Surveys, Maps, etc., for Street Openings and New Streets.....	9,000 00	8,999 30	.....	50	9,000 00	1,908 28	1,987 20	5,104 52
Supplying Water to Shipping, etc.—Salaries.....	5,000 00	4,336 08	.....	663 92	5,000 00	783 01	949 07	3,267 92
Water Supply for the Twenty-fourth Ward.....	.....	.....	.....	.....	1,000 00	225 00	234 00	541 00
Water Supply for the Twenty-fourth Ward—Salaries.....	250 00	25 75	.....	224 25	250 00	.....	.....	250 00
Wells and Pumps—Repairing and Cleaning.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.....	\$2,543,450 00	\$2,313,383 93	\$39,251 96	\$190,814 11	\$2,771,090 00	\$307,270 19	\$494,416 45	\$1,969,403 36
Iron Bridge over Fourth Avenue at Ninety-eighth Street, Appropriation of 1884.....	\$35,000 00	\$1,096 10	\$4,401 40	\$29,502 50	.....	.....	.....	.....



TITLES OF TRUST ACCOUNTS.	Balances from 1885, and Receipts, First Quarter, 1886.	Receipts, Second Quarter, 1886.	Total.	Requisitions, First Quarter, 1886.	Requisitions, Second Quarter, 1886.	Requisitions, Six Months to July 1, 1886.	Balances, July 1, 1886.
Croton Water Fund.....	.....	.....	.....	\$58,438 23	\$80,135 01	.....	.....
Fund for Local Improvements.....	.....	.....	.....	72,465 00	179,410 50	.....	.....
Restoring and Repaving—Special Fund—Department of Public Works.	\$14,966 86	\$10,148 00	\$25,114 86	4,064 30	10,280 86	\$14,345 16	\$10,769 70
Water Meter Fund, No. 2.....	24,589 62	3,092 83	27,682 45	5,265 49	2,054 21	7,319 70	20,362 75

Statement of General Bookkeeper, Department of Public Works, showing all Revenues of the City received through the Department during the First and Second Quarters, 1886.

SOURCE OF REVENUE.	FIRST QUARTER.	SECOND QUARTER.	TOTALS.	SOURCE OF REVENUE.	FIRST QUARTER.	SECOND QUARTER.	TOTALS.
Water rents.....	\$297,268 47	\$694,791 53	\$985,060 00	Use of sprinkling wagons.....	\$68 00	.....	\$68 00
Water penalties.....	3,195 70	1,759 80	4,955 50	Use of steam rollers and derricks.....	177 75	.....	177 75
Pipe tapping.....	1,760 00	3,992 00	5,752 00	Work done and material furnished citizens.....	59 50	\$60 53	120 03
Sewer permits.....	5,359 62	10,654 71	15,414 33	Sales at public auction.....	.....	359 11	359 11
Vault permits.....	5,309 77	21,052 05	26,361 82	Total.....	\$306,424 49	\$732,443 81	\$1,038,868 30
Redemption and sale of street obstructions.....	225 68	374 08	599 76				

C. T. McCLENACHAN, General Bookkeeper, D. P. W.

### Document "B."

A Statement in detail of all Expenditures for which Requisitions were drawn on the Department of Finance by the Department of Public Works, during the Quarter ending June 30, 1886, alphabetically arranged under their respective appropriations and trust accounts.

#### APPROPRIATIONS.

##### Aqueduct—Repairs, Maintenance and Strengthening—

Brick.....	\$440 00
Cement, etc.....	1,678 00
Coal.....	3,159 25
Damper regulators.....	350 00
Filling.....	262 50
Fire-brick.....	67 25
Grate bars.....	236 00
Horse feed.....	56 00
Lumber.....	455 85
Manure.....	345 37
Oil.....	230 29
Paint.....	131 83
Pay-rolls.....	29,937 04
Powder and fuse.....	118 25
Repairing boilers.....	1,195 29
“ engines.....	1,145 70
“ harness.....	38 50
“ roofs.....	682 75
“ tools.....	350 73
“ valves.....	42 99
“ wagons.....	115 50
Seed.....	49 55
Stone.....	2,538 35
Taxes.....	1,071 53
Tools and supplies.....	1,095 31
Traveling expenses.....	86 40
Total.....	\$45,881 13

##### Aqueduct—Repairs, Maintenance and Strengthening, 1885—

Ice.....	\$44 51
Telephone service.....	220 00
Total.....	\$264 51

##### Aqueduct—Repairs, Maintenance and Strengthening, 1884—

Building Waste Weir.....	\$266 67
--------------------------	----------

##### Boring Examinations for Grading and Sewer Contracts—

Pay rolls.....	\$369 12
----------------	----------

##### Boulevard, Roads and Avenues, Maintenance of—

Broken stone.....	\$292 50
Horse-hire.....	450 00
Pay-rolls.....	16,046 67
Repairing sprinklers.....	32 40
Road machine.....	116 49
Sand.....	1,181 57
Screenings and gravel.....	5,991 75
Tools.....	404 31
Trees.....	282 97
Total.....	\$24,798 66

##### Bronx River Works—Maintenance and Repairs—

Pay-rolls.....	\$3,518 00
----------------	------------

##### Brown Stone Building—Addition to—

Architect's services.....	\$425 00
---------------------------	----------

##### Contingencies—Department of Public Works—

Horse-hire.....	\$185 50
Incidental expenses.....	103 16
Postage stamps.....	236 40
Traveling expenses.....	185 16
Total.....	\$710 22

##### Contingencies—Department of Public Works, 1885—

Incidental expenses.....	\$96 84
--------------------------	---------

##### Flagging Sidewalks and Fencing Vacant Lots—

Sixty-eighth street, between Third and Lexington avenues.....	\$7 40
---	--------

##### Free Floating Baths—

Repairing pumps.....	\$32 11
“ roofs.....	877 60
Storing baths.....	1,138 50
Supplies.....	499 97
Total.....	\$2,548 18

##### Free Floating Baths, 1885—

Supplies.....	\$28 05
Storing baths.....	1,006 25
Total.....	\$1,034 30

##### Iron Bridge—Across Fourth Avenue at Ninety-eighth Street, 1884—

Building bridge.....	\$4,217 40
Inspecting.....	184 00
Total.....	\$4,401 40

##### Lamps and Gas and Electric Lighting—

Gas governors.....	\$460 00
Gas examinations.....	359 50
Horse-hire.....	50 00
Lamps.....	1,769 00
Lamp-globes.....	471 25
Lamp-irons.....	373 57
Lamp-posts.....	770 00
Lettering globes.....	135 00
Office rent.....	240 00
Pay-rolls.....	534 00
Refitting service pipe.....	225 00
Removing service pipe.....	545 00
Repairing gas-holder.....	345 00
Repairing lamps.....	508 50
Supplies.....	116 19
White-wood knobs.....	60 00
Lighting Armory, First Battery.....	46 36
“ “ Second Battery.....	104 16
“ “ Seventh Regiment.....	841 80
“ “ Eighth “.....	254 25
“ “ Ninth “.....	411 75
“ “ Eleventh “.....	97 58
“ “ Twelfth “.....	309 12
“ “ Twenty-second Regiment.....	664 44
“ “ Sixty-ninth “.....	250 18
“ “ Seventy-first “.....	190 54
“ Brown-stone Building.....	91 20
“ City Hall.....	423 00
“ City Record Bindery.....	75
“ County Jail.....	310 80
“ Court, Civil, First District.....	90
“ “ Second “.....	24 15
“ “ Fourth “.....	10 78
“ “ Fifth “.....	37 92
“ “ Sixth “.....	3 50
“ “ Eighth “.....	9 15
“ “ Ninth “.....	12 00
“ Court, Police, First “.....	331 20
“ “ Second “.....	118 86
“ “ Third “.....	39 90
“ “ Fourth “.....	114 10
“ “ Fifth “.....	18 30
“ Court, Special Sessions.....	1 20
“ Court-house, New.....	1,387 80
“ “ Third District (clock).....	153 30
“ Department of Public Works.....	309 30
“ “ Taxes and Assessments.....	11 70
“ Engine-house, High Bridge.....	71 40
“ “ Ninety-eighth street.....	131 70
“ Market, Catharine.....	37 95
“ “ Centre.....	50 55
“ “ Clinton.....	159 00
“ “ Essex.....	30 24
“ “ Fulton.....	879 75
“ “ Jefferson.....	288 68
“ “ Tompkins.....	128 80
“ “ Union.....	6 30
“ “ Washington.....	717 45
“ Office Assessment Commission.....	2 40
“ “ Corporation Attorney.....	70 80
“ “ Corporation Counsel.....	8 25
“ “ Photometrical.....	43 68
“ “ Receiver of Taxes.....	333 30
“ Repair Shop, Thirtieth street.....	12 60
“ “ Eighty-third street.....	6 60
“ “ One Hundred and Twenty-ninth street.....	10 50
“ Rivington Street Yard.....	1 65
“ South Gate-house.....	76 65
“ Streets, Brush Electric Illuminating Co.....	22,314 60
“ “ United States Electric Illuminating Co.....	23,217 60
“ “ Central Gas-light Co.....	15,811 60
“ “ Consolidated “.....	79,109 16
“ “ Equitable “.....	4,625 98
“ “ New York Mutual Gas-light Co.....	1,010 09
“ “ New York and New Jersey Globe Gas-light Co.....	312 51
“ “ Northern Gas-light Co.....	12,563 74
“ “ Yonkers.....	2,527 50
Total.....	\$178,103 03

##### Laying Croton Pipes—

Horse-hire.....	\$351 00
Hydrant-boxes, etc.....	595 00
Laying pipe, Avenue A, between Fifty-fourth and Fifty-fifth streets.....	262 80
Laying pipe, Fourth avenue, between One Hundred and Twentieth and One Hundred and Twenty-first streets.....	485 05
Laying pipe, Sixth avenue, between One Hundred and Nineteenth and One Hundred and Twenty-first streets.....	464 30
Laying pipe, Fairmount and Columbia avenues, etc.....	5,283 97
“ Ninth and Eighth streets, St. Nicholas and Madison avenues, etc.....	4,667 74
“ Thirty-first street, between First and Second avenues.....	99 50
“ Sixty-eighth street, between Third and Lexington avenues.....	53 00
“ Ninetieth street, between Eighth and Ninth avenues.....	417 80
“ Ninety-fourth street, between Fourth and Fifth avenues.....	577 70
“ One Hundred and Third street, between Fourth and Fifth avenues.....	442 15
“ One Hundred and Third street, between Ninth and Tenth avenues.....	601 10
Laying pipe, One Hundred and Twenty-first street, between Seventh and Eighth avenues.....	531 05
Laying pipe, One Hundred and Forty-sixth street, bet. Third and College avenues.....	263 35
Pay-rolls.....	3,343 75
Relaying gas-pipes.....	101 59
Traveling expenses.....	28 01
Total.....	\$18,568 86



Laying Croton Pipes, 1885—	
Cast-iron pipe.....	\$17,202 10
Laying pipe, Fordham, Pelham, etc., avenues.....	4,505 61
Laying pipe, One Hundred and Thirty-fourth, Ninety-fourth, Seventy-second streets, etc.....	1,059 95
Traveling expenses.....	10 89
Total.....	\$22,778 55
Public Buildings—Construction and Repairs—	
Armory, Ninth Regiment.....	\$430 22
“ Sixty-ninth Regiment.....	826 35
Brown-stone Building.....	1,175 46
Bureau Repairs and Supplies.....	523 02
City Hall.....	1,794 33
City Prison.....	7 41
County Jail.....	1,440 54
Court, Civil, First District.....	75 24
“ “ Second “.....	73 95
“ “ Fifth “.....	648 03
“ “ Tenth “.....	41 49
“ “ Eleventh District.....	28 99
“ Police, First “.....	44 50
“ “ Third “.....	20 21
“ “ Fifth “.....	8 88
“ City.....	333 57
“ Common Pleas.....	957 84
“ General Sessions.....	35 00
“ Superior.....	126 00
Court-house, New.....	5,052 79
“ Third District.....	78 20
“ Fourth “.....	5 25
“ Seventh “.....	130 08
Hall of Records.....	422 63
Little West Twelfth street and Tenth avenue.....	75 00
Market, Centre.....	123 37
“ Clinton.....	1,759 34
“ Fulton.....	226 63
“ Jefferson.....	226 56
“ Tompkins.....	181 04
“ Washington.....	753 64
No. 31 Chambers street.....	2,301 98
Office Assessment Commission.....	3 95
“ Commissioner of Jurors.....	1 70
“ Corporation Counsel.....	581 15
“ District Attorney.....	5 00
“ Department of Finance.....	16 25
“ Surrogate's.....	23 00
Pay-rolls.....	689 50
Total.....	\$21,248 09
Public Buildings—Construction and Repairs, 1885—	
Washington Market.....	\$7 00
Public Drinking-hydrants—	
Repairing hydrants.....	\$396 64
Public Drinking-hydrants, 1885—	
Hydrants.....	\$612 50
Removing Obstructions in Streets and Avenues—	
Labor.....	\$38 00
Removing obstructions.....	709 47
Traveling expenses.....	56 20
Total.....	\$803 67
Repairing and Renewal of Pipes, Stop-cocks, etc.—	
Hydrants, etc.....	\$4,854 83
Hydrant boxes.....	189 00
Hydrant cups, chains, etc.....	384 00
Lumber.....	118 44
Paint.....	68 00
Pay-rolls.....	27,425 65
Relaying pipes.....	838 92
Repairing hydrants.....	623 06
“ roof.....	231 38
Supplies.....	68 35
Telephone services.....	113 95
Traveling expenses.....	75 77
Total.....	\$34,991 35
Repairing and Renewal of Pipes, Stop-cocks, etc., 1885—	
Repairing meters.....	\$142 05
Repairs and Renewal of Pavements and Regrading—	
Bridge stone.....	\$687 68
Horse-keeping.....	133 50
“ supplies.....	35 75
Oil.....	38 40
Pay-rolls.....	14,129 63
Redressing stone.....	100 00
Rent of lots.....	62 50
Repairing asphalt pavement.....	605 74
“ tool carts.....	329 20
“ tools.....	168 40
Sand.....	468 32
Tools.....	846 89
Traveling expenses.....	68 85
Total.....	\$17,674 86
Repaving Fifth avenue, between Ninth and Ninetieth streets (except between Thirty-third and Thirty-seventh streets)—	
Inspection.....	\$322 00
Surveyors' fees.....	1,005 53
Work on contract.....	16,517 20
Total.....	\$17,844 73
Repaving Streets and Avenues—	
Surveyors' fees.....	\$1,618 55
Repaving Streets and Avenues, 1885—	
Leonard, Dyer and Baxter streets, etc.....	\$508 00
Mott street, between Canal and Chambers streets.....	306 40
Mulberry and Park streets.....	309 00
Sullivan street, between Third and Canal streets.....	883 30
Thames, Jersey and Duane streets, etc.....	320 50
Thompson street, between Canal and Bleecker streets.....	714 50
Fourth and Hester streets.....	460 60
Ninth and Thirty-sixth streets.....	345 40
Eleventh street, between Avenues B and D.....	447 70
Twelfth street, between Avenue A and Second avenue.....	427 20
Twenty-fifth and Thirty-sixth streets.....	421 10
Twenty-sixth street, between Eighth and Tenth avenues.....	6,302 16

Repaving Streets and Avenues, 1885—	
Forty-fourth and Thirty-fifth streets.....	\$485 10
One Hundred and Twenty-ninth street, between First and Third avenues.....	267 60
Tenth avenue, between Fifty-ninth and Sixty-fourth streets.....	844 70
Surveyors' fees.....	130 56
Total.....	\$13,173 82
Roads, Streets and Avenues, Unpaved—Maintenance and Sprinkling—	
Pay-rolls.....	\$5,975 00
Tools and supplies.....	42 71
Total.....	\$6,017 71
Sewers—Repairing and Cleaning—	
Basin-heads.....	\$2,110 00
Brick and cement.....	160 00
Horse-keeping.....	257 00
Manhole heads and covers.....	2,340 80
Pay-rolls.....	12,641 25
Repairing and cleaning sewers.....	9,350 91
Tools.....	370 84
Total.....	\$27,230 80
Sewers—Repairing and Cleaning, 1885—	
Repairing sewer.....	\$114 00
Sewers—Repairing and Cleaning, 1883—	
Repairing scales.....	\$13 88
Street Improvements—For Surveying, Monumenting and Numbering Streets—	
Drawing materials.....	\$11 60
Inspecting.....	315 00
Maps.....	52 00
Total.....	\$378 60
Street Signs on Buildings and Street Lamps—	
Glass street signs.....	\$570 00
Surveys, Maps, etc., for Street Openings and New Streets—	
Pay-rolls.....	\$1,734 50
Water Supply for the Twenty-fourth Ward—	
Supplying water.....	\$949 07
Supplies for and Cleaning Public Offices—	
Armory, First Battery.....	\$11 00
“ Second Battery.....	11 00
“ Eighth Regiment.....	70 19
“ Ninth “.....	33 00
“ Eleventh “.....	25 16
“ Sixty-ninth “.....	10 25
“ Seventy-first Regiment.....	13 95
Brown-stone Building.....	268 51
Board of Aldermen.....	7 90
“ Assessors.....	221 47
“ Police Justices.....	7 00
Bureau Repairs and Supplies.....	4,048 15
City Hall.....	214 43
City Prison.....	20 00
County Jail.....	42 71
Court, Civil, Second District.....	159 42
“ “ Fourth “.....	200 00
“ “ Fifth “.....	42 35
“ “ Sixth “.....	59 46
“ “ Eighth “.....	40 50
“ “ Ninth “.....	6 45
“ “ Tenth “.....	18 05
“ “ Eleventh “.....	44 00
“ Police, First “.....	20 00
“ “ Third “.....	20 50
“ “ Fifth “.....	51 75
“ City.....	986 00
“ Common Pleas.....	815 42
“ General Sessions.....	213 00
“ Special Sessions.....	26 50
“ Superior.....	241 80
“ Supreme.....	1,003 68
“ Surrogate's.....	229 12
Court-house, New.....	379 88
“ Third District.....	22 00
“ Seventh “.....	11 00
Department of Finance.....	249 00
“ Public Works.....	537 99
Office, Assessment Commission.....	163 90
“ Commissioners of Accounts.....	2 00
“ Corporation Attorney.....	75 00
“ Corporation Counsel.....	528 93
“ County Clerk.....	67 51
“ Public Administrator.....	35 33
Pay-rolls.....	14,555 00
Rivington Street Yard.....	6 00
Total.....	\$25,816 26
Supplies for and Cleaning Public Offices, 1885—	
Bureau Repairs and Supplies.....	\$1,028 39
Supplies for and Cleaning Public Offices, 1884—	
Mayor's Office.....	\$89 23

## RECAPITULATION OF APPROPRIATIONS.

Aqueduct—Repairs, Maintenance and Strengthening.....	\$45,881 13
Aqueduct—Repairs, Maintenance and Strengthening, 1885.....	264 51
Aqueduct—Repairs, Maintenance and Strengthening, 1884.....	266 77
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.....	6,324 88
Boring Examinations for Grading and Sewer Contracts.....	369 12
Boulevard, Roads and Avenues, Maintenance of.....	24,798 66
Bronx River Works—Maintenance and Repairs.....	3,518 00
Bronx River Works—Maintenance and Repairs—Salaries.....	825 00
Brown-stone Building—Addition to.....	425 00
Contingencies—Department of Public Works.....	710 22
Contingencies—Department of Public Works, 1885.....	96 84
Flagging Sidewalks and Fencing Vacant Lots.....	7 40
Free Floating Baths.....	2,548 18
Free Floating Baths, 1885.....	1,034 30
Free Floating Baths—Salaries.....	1,098 00
Iron Bridge over Fourth Avenue at Ninety-eighth Street, 1884.....	4,401 40
Lamps and Gas and Electric Lighting.....	178,103 03
Lamps and Gas and Electric Lighting—Salaries.....	1,299 99
Laying Croton Pipes.....	18,568 86
Laying Croton Pipes, 1885.....	22,778 55
Laying Croton Pipes—Salaries.....	3,957 49
Public Buildings—Construction and Repairs.....	21,248 09
Public Buildings—Construction and Repairs, 1885.....	7 00



Public Drinking-hydrants.....	\$396 64
Public Drinking-hydrants, 1885.....	612 50
Public Drinking-hydrants—Salaries.....	333 32
Removing Obstructions in Streets and Avenues.....	803 67
Removing Obstructions in Streets and Avenues—Salaries.....	675 00
Repairing and Renewal of Pipes, Stop-cocks, etc., 1885.....	34,991 35
Repairing and Renewal of Pipes, Stop-cocks, etc., 1885.....	142 05
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....	11,207 07
Repairs and Renewal of Pavements and Regrading.....	17,674 86
Repairs and Renewal of Pavements and Regrading—Salaries.....	3,074 50
Repaving Fifth Avenue (chap. 371, Laws 1885).....	17,844 73
Repaving Streets and Avenues.....	1,618 55
Repaving Streets and Avenues, 1885.....	13,173 82
Repaving Streets and Avenues—Salaries.....	126 00
Roads, Streets and Avenues, Unpaved—Maintenance, etc.....	6,017 71
Salaries—Department of Public Works.....	19,923 21
Sewers—Repairing and Cleaning.....	27,230 80
Sewers—Repairing and Cleaning, 1885.....	114 00
Sewers—Repairing and Cleaning, 1885.....	13 88
Sewers—Repairing and Cleaning—Salaries.....	2,073 00
Sewerage System—Salaries.....	2,753 00
Street Improvements—For Surveying, Monumenting and Numbering Streets.....	378 60
Street Signs on Buildings and Public Lamps.....	570 00
Supplies for and Cleaning Public Offices.....	25,816 26
Supplies for and Cleaning Public Offices, 1885.....	1,028 39
Supplies for and Cleaning Public Offices, 1885.....	89 23
Supplies for and Cleaning Public Offices—Salaries.....	6,320 36
Surveys, Maps, etc., for Street Openings and New Streets.....	1,734 50
Supplying Water to Shipping and for Building Purposes—Salaries.....	1,987 20
Water Supply for the Twenty-fourth Ward.....	949 07
Water Supply for the Twenty-fourth Ward—Salaries.....	234 00
Total.....	\$538,439 69

## TRUST ACCOUNTS.

## CROTON WATER FUND.

Building Reservoir at Williamsbridge.....	\$36,441 00
Commissioner's fees.....	1,500 00
Drawing implements.....	331 72
Horse-keeping, etc.....	542 50
Land.....	3,204 00
Pay-rolls.....	34,039 87
Printing and binding.....	1,049 93
Professional services.....	500 00
Rent of offices.....	546 25
Rent of mill seat.....	600 00
Repairing instruments.....	70 28
Traveling expenses, etc.....	649 46
Total.....	\$80,135 01

## FUND FOR LOCAL IMPROVEMENTS.

Flagging— Sixth avenue, between One Hundred and Twenty-fifth and One Hundred and Forty-fifth streets.....	\$1,018 69
Paving— Seventieth street, between Avenue A and 650 feet east.....	\$209 10
Seventy-third street, between Ninth avenue and 225 feet west.....	188 80
Eighty-second street, between Eighth and Ninth avenues.....	272 00
Eighty-ninth street, between Second and Fifth avenues.....	799 90
Ninety-first street, between Second and Fourth avenues.....	8,560 57
One Hundred and Fifteenth street, between Fifth and Sixth avenues.....	312 50
One Hundred and Thirty-second street, between Seventh and Eighth avenues.....	4,317 99
One Hundred and Thirty-fourth street, between Fifth and Madison avenues.....	148 90
One Hundred and Fifty-third street, between Tenth and St. Nicholas avenues.....	181 10
Total.....	\$14,990 86
Regulating, grading, etc.— Fort Washington Ridge road.....	\$14,559 30
Kingsbridge road, between One Hundred and Fifty-fifth and One Hundred and Ninetieth streets.....	1,479 80
Madison avenue, between One Hundred and Thirty-fifth and One Hundred and Thirty-seventh streets.....	134 91
Morningside avenue, between Tenth avenue and One Hundred and Tenth street.....	44,036 21
West End avenue, between Seventy-second street and Boulevard.....	6,732 60
Eleventh avenue, between Kingsbridge road and Dyckman street.....	38,562 91
Eighty-fifth street, between Ninth and Tenth avenues.....	200 00
Ninety-first street, between Third and Fourth avenues.....	235 50
Ninety-third street, between West End avenue and Riverside Drive.....	7,469 00
Ninety-fourth street, between Boulevard and Riverside Drive.....	5,921 09
Ninety-fourth street, between Second and Third avenues.....	162 50
One Hundred and Third street, between Tenth avenue and Riverside Drive.....	309 33
One Hundred and Fourth street, between Boulevard and Riverside Drive.....	192 08
One Hundred and Seventeenth street, between Sixth and Seventh avenues.....	205 00
One Hundred and Fifty-third street, between Seventh and Ninth avenues.....	5,868 42
One Hundred and Fifty-fifth street, between Eighth avenue and McComb's Dam Bridge.....	3,675 00
One Hundred and Eighty-fifth street, between Tenth avenue and Kingsbridge road.....	11,474 77
Total.....	\$141,218 42
Sewer— Second avenue, between Sixty-sixth and Sixty-seventh streets.....	\$243 15
Fourth avenue, between Fifty-fourth and Fifty-fifth streets.....	991 02
Tenth avenue, between One Hundred and Sixty-second and One Hundred and Seventieth streets.....	2,909 20
Lexington avenue, between Eighty-third and Eighty-fifth streets.....	350 00
Lexington avenue, between Ninety-fifth and Ninety-seventh streets.....	1,113 70
Kingsbridge road, between One Hundred and Fifty-fifth and One Hundred and Fifty-sixth streets.....	85 50
Sixty-sixth street, between Eighth and Ninth avenues.....	241 80
Eighty-third street, between Ninth and Tenth avenues.....	255 60
Eighty-seventh street, between Tenth and Riverside avenues.....	1,398 25
Eighty-eighth street, between Fifth and Madison avenues.....	382 20
Ninety-seventh street, between Boulevard and Riverside avenue.....	1,895 60
One Hundred and Fourth street, between Boulevard and Tenth avenue.....	111 00
One Hundred and Sixth street, between Boulevard and summit, east.....	1,270 43
One Hundred and Sixth street, east and west of Tenth avenue.....	1,253 35
Total.....	\$12,500 80
Restoring and Repaving—Special— Pay-rolls.....	\$1,152 00
Repaving, etc.....	8,914 00
Sand.....	191 96
Traveling expenses.....	22 90
Total.....	\$10,280 86
Water-meter Fund, No. 2— Setting meters.....	\$1,379 21
Water-meters.....	675 00
Total.....	\$2,054 21

## RECAPITULATION OF TRUSTS.

Croton Water Fund.....	\$80,135 01
Fund for Local Improvements— Flagging.....	\$1,018 69
Paving.....	14,990 86
Regulating, grading, etc.....	141,218 42
Sewers.....	12,500 80
Pay-rolls, paving.....	304 50
“ Regulating, grading, etc.....	2,009 06
“ Sewers.....	3,792 67
City Surveyor's fees.....	3,575 50
Restoring and Repaving—Special Fund.....	179,410 50
Water-meter Fund, No. 2.....	10,280 86
Total.....	\$271,880 58

## GENERAL SUMMARY.

Appropriations.....	\$538,439 69
Trust Accounts.....	271,880 58
Total Requisitions for quarter.....	\$810,320 27

## Document “C.”

Contracts Made during the Three Months ending June 30, 1886.

Date of Contract	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.	Date of Completion & Certificate.
1886.	<i>Sewer Contracts.</i>				1886.
May 18	Sewers in Sixty-seventh, Sixty-eighth and Sixty-ninth streets, between West End avenue and land of N. Y. C. & H. R. R.....	Joseph Moore, 180 East 88th st.....	John McQuade, 1338 Lexington av Peter McGinness, 1546 Park ave.....	\$9,877 46	May 21
“ 18	Sewer in One Hundred and Fourteenth street, between Fourth and Sixth avenues.....	Joseph Moore, 180 East 88th st.....	John McQuade, 1338 Lexington av Peter McGinness, 1546 Park ave.....	6,984 37	“ 21
June 1	Sewer in Forsyth street, between Stanton and Houston streets, from end of present sewer, to connect with sewer in Houston street.....	Lawrence Rock, 459 West 40th st.....	Patrick Reilly, 39 Sutton place... Chas. Campbell, 621 Ninth ave.....	1,451 50	June 1
“ 10	Sewer in Ninety-fourth street, between Eighth and Ninth avenues.....	Virgilio Del Genovese, 268 Ebbwery.....	James Slattery, 218 W. 57th st....	5,643 96	“ 14
				\$23,957 29	
	<i>Regulating and Grading Contr. etc.</i>				
May 14	Regulating and grading One Hundred and Fifty-fifth street, from Eighth avenue to first new avenue west of Eighth avenue, and setting curb-stones and flagging sidewalks therein.....	Charles Trainer, 155th st. and 8th ave..	James J. Coogan, 41 W. 52d st..... H. Herrmann, 78 Mott st.....	\$8,789 30	May 20
“ 26	Regulating and grading One Hundred and Fourteenth street, from Fourth to Eighth avenue, and setting curb-stones and flagging sidewalks therein.....	James Slattery, 218 West 57th st....	James Rozell, 114 W. 39th st.... Peter McEntee, 66th st., bet. 8th and 9th aves.....	23,443 44	“ 26
“ 20	Regulating and grading William street, from Duane street to the intersection of North William street.....	John Kearney, 334 East 86th st.....	Charles Jones, 259 Alexander ave James J. Jones, 435 E. 89th st.....	3,227 20	“ 27
				\$35,459 94	
	<i>Paving Contract, under chapter 476, Laws of 1875.</i>				
June 15	Paving, with granite-block pavement, Pine street, from William to Pearl street, Ninth street, from Third to Fourth avenue, Eighth street, from Fourth avenue to Broadway, and Eighteenth street, from Fourth avenue to Broadway.....	William Kelly, 609 West 47th st.....	Henry Kelly, 422 W. 42d st.... James Fitzpatrick, 529 W. 42d st.....	\$13,063 80	
“ 15	Paving, with granite-block pavement, Grand street, from Broadway to Varick street, and Washington place, from Macdonald street to Sixth avenue.....	William Kelly, 609 West 47th st.....	Henry Kelly, 422 W. 42d st.... James Fitzpatrick, 529 W. 42d st.....	15,754 28	
“ 15	Paving, with granite-block pavement, Monroe street, from Clinton to Gouverneur street.....	William Kelly, 609 West 47th st.....	Henry Kelly, 422 W. 42d st.... James Fitzpatrick, 529 W. 42d st.....	6,403 50	
“ 19	Paving, with trap-block pavement, Cannon street, from Houston to Grand street, and Jackson street, from Water to Grand street.....	Thomas Gearty, 135 East 83d st.....	Thomas Regan, 719 Lexington ave James King, 1420 Second ave..	17,890 48	
“ 19	Paving, with trap-block pavement, Sheriff street, from Delancey to Stanton street, and Centre Market Place, from Grand to Broome street.....	William A. Cumming, 5 Dey st. ....	Julius A. Candee, Foot 26th st., E. R James Sinclair, Foot 29th st., E. R	5,579 16	
“ 19	Paving, with trap-block pavement, Suffolk street, from Rivington to Division street.....	William A. Cumming, 5 Dey st.....	Julius A. Candee, Foot 26th st., E. R James Sinclair, Foot 29th st., E. R	8,836 40	
“ 19	Paving, with trap-block pavement, Jones street, from Fourth to Bleeker street, and Leroy street, from Hudson to Washington street.....	William A. Cumming, 5 Dey st.....	Julius A. Candee, Foot 26th st., E. R James Sinclair, Foot 29th st., E. R	7,069 88	
“ 19	Paving, with trap-block pavement, Cornelia street, from Fourth to Bleeker street, and Downing street, from Bleeker to Varick street.....	Thomas Gearty, 135 East 83d st.....	Thomas Regan, 719 Lexington ave James King, 1420 Second ave..	5,830 78	
“ 18	Paving, with trap-block pavement, Ridge street, from Stanton to Division street.....	P. H. Fitzgerald, 428 West 35th st.....	Louis Rave, 552 West 40th st. Charles Guidet, 237 Broadway....	8,886 13	
“ 28	Paving, with trap-block pavement, William street, from Duane to North William street.....	John Kearney, 334 East 86th st....	Charles Jones, 259 Alexander ave Peter McGinness, 1546 Park avenue.	1,368 20	
				\$90,684 61	
	<i>Paving Contract.</i>				
Feb. 16	Paving, with trap-block pavement, Ninety-first street, between Second and Fourth avenues.....	Thomas Gearty, 135 East 83d st.....	P. H. McCullagh, 240 E. 32d st.... James King, 1420 Second ave..	\$9,531 80	April 16
	<i>Laying Water-main Contracts.</i>				
Apr. 22	Laying water-mains in Tremont, Prospect and Riverdale avenues and in Kingsbridge road.....	John Cornwell, Jr., 529 East 161st st.....	Solomon Jacobs, 195 E. Broadway. Morris Rosendorff, 52 Eldridge st.... Richd. J. Mahoney, 416 E. 57th st....	8,469 00	
May 27	Laying water-mains in Mulberry street and the Bowery.....	F. Thilemann, Jr., 382 Pleasant ave.....	James Kay, 159 Wash'n Mkt.	10,355 00	
				\$18,824 00	



Date of Contract.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.	Date of Completion of Certificate.
1886.	<i>Miscellaneous Contracts.</i>				
April 9	Furnishing the Department of Public Works with 1,000 cubic yards of clean, sharp sand, suitable for road-surfacing.	Michael Fay, 308 East 52d st.	James Fay, 406 E. 79th st. Thomas Roche, 339 E. 47th st.	\$1,180 00	
" 8	Furnishing materials and performing work in the erection of a one-story brick office and store-room in pipe yard at foot of Twenty-fourth street, East river.	James H. Brady, 317 East 56th st.	James Brady, 319 E. 52d st. Nathan Hutkoff, 199 E. Broadway.	4,586 00	
" 19	Furnishing and delivering to the Department of Public Works 1,000 cubic yards of gravel, suitable for road-surfacing; also 1,400 cubic yards of gravel bank screenings.	George F. Doak, Broadway near 129th st.	Ransom Parker, Jr., 221 W. 11th st. J. Warren S. Dey, 121 E. 24th st.	4,530 00	
" 25	Furnishing the materials and painting the eleven free floating baths.	Louis Berkowitz, 308 East 52d st.	Paul Gaubert, 514 Third ave. Thomas Roche, 339 E. 47th st. Daniel J. Lynch, 41 Old Slip. Jeremiah Perry, 08 Henry st.	2,185 00	
May 28	Furnishing the Department of Public Works with 8,000 cubic yards of clean, sharp sand.	Murray & Reid, 39 South st.	William E. St ger, 440 W. 73d st. Frederick A. Potts, 39 E. 39th st.	5,280 00	
June 1	Furnishing cast-iron water-pipes, branch pipes and special castings.	Warren Foundry and Machine Co., Phillipsburg, N. J.		53,144 20	
" 4	Furnishing and delivering ice to the Department of Public Works and the public buildings and offices in care of said Department, for the eight months ending December 31, 1886.	Ransom Parker, Jr., 155 Charles st.	James Snodgrass, 403 West st. H. H. W. Neslage, 175 Perry st.	2,180 00	
				\$73,085 20	

## RECAPITULATION.

4 Sewer Contracts.....	\$23,957 29
3 Regulating and Grading Contracts.....	35,459 94
10 Repaving Contracts.....	90,684 61
1 Paving Contract.....	9,531 80
2 Laying Water-main Contracts.....	18,824 00
7 Miscellaneous Contracts.....	73,085 20
27 Contracts.....	\$251,542 84

Contracts Completed during the Three Months ending June 30, 1886.

DATE.	NATURE AND LOCATION OF WORK.	ESTIMATED COST.
1886.		
May 3	Regulating and grading Eleventh avenue, from Kingsbridge road to Dyckman street.	\$125,607 28
" 21	Regulating and grading, etc., Morningside avenue, from One Hundred and Tenth street to Tenth avenue.	320,616 17
June 1	Regulating and grading One Hundred and Fifty-third street, from Seventh avenue to first new avenue west of Eighth avenue.	28,216 94
" 7	Regulating and grading One Hundred and Eighty-fifth street, from Tenth avenue to Kingsbridge road.	26,819 66
" 16	Sewer in Fourth avenue, east side, between Fifty-fourth and Fifty-fifth streets.	1,399 09
" 16	Sewer in Attorney street, between Stanton and Rivington streets.	2,374 07
" 16	Paving One Hundred and Thirty-second street, from Seventh to Eighth avenue.	4,886 60
" 16	Paving Ninety-first street, between Second and Fourth avenues.	9,526 89
" 20	Paving Eighty-second street, from Avenue A to Avenue B.	4,824 82
Apr. 19	Furnishing and delivering ice to the Department of Public Works and the public buildings and offices in care of said Department.	2,180 00
May 28	Furnishing 1,000 cubic yards of clean, sharp sand.	1,180 00
June 25	Furnishing 1,000 cubic yards of gravel and 1,400 cubic yards of gravel bank screenings.	4,530 00
		\$533,161 52

## RECAPITULATION.

2 Sewer Contracts.....	\$3,773 16
4 Regulating and Grading Contracts.....	502,260 05
3 Paving Contracts.....	19,238 31
3 Miscellaneous Contracts.....	7,890 00
12 Contracts.....	\$533,161 52

## Document "D."

DEPARTMENT OF PUBLIC WORKS,  
OFFICE OF CHIEF ENGINEER, NO. 31 CHAMBERS STREET, ROOM 10,  
NEW YORK, July 2, 1886.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—In compliance with your instructions, I submit the following report for the quarter ending June 30, 1886:

## EXPENDITURES.

Aqueduct—Repairs, Maintenance and Strengthening.....	\$46,412 41
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.....	6,324 88
Bronx River Works—Maintenance and Repairs.....	3,518 00
Bronx River Works—Maintenance and Repairs—Salaries.....	825 00
Croton Water Fund.....	80,135 01
Contingencies—Department Public Works.....	200 00
Iron Bridge—Fourth avenue, at Ninety-eighth street.....	4,401 40
Laying Croton Pipes.....	41,347 41
Laying Croton Pipes—Salaries.....	3,957 49
Repairing and Renewal of Pipes, Stop-cocks, etc.....	7,593 80
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....	8,345 46
Shipping and Building—Salaries.....	1,987 20
Water Supply, Twenty-fourth Ward.....	949 07
Water Supply, Twenty-fourth Ward—Salaries.....	234 00
Water Meter Fund, No. 2.....	1,671 47
Total.....	\$207,902 60

## STORAGE RESERVOIRS.

The Croton river has furnished a full supply of water to the Aqueduct during the quarter. The reservoirs and lakes on the Croton river are full. There have been drawn from Kensico reservoir 310,000,000 gallons.

## Rain-fall—Inches.

	APRIL.	MAY.	JUNE.	TOTAL FOR QUARTER.
Boyd's Corners Reservoir.....	3.61	4.54	3.09	11.24
South East Reservoir.....	3.56	4.49	3.36	11.41
Kensico Reservoir.....	4.03	4.18	4.34	12.55
Croton Dam.....	5.09	3.95	3.35	12.39
Central Park Reservoir.....	3.97	6.13	4.23	14.33

## BRONX RIVER SUPPLY.

The Commissioners appointed to appraise values and damages for roads, etc., in the vicinity of Williamsbridge reservoir, have made their report, and it has been confirmed by the Supreme Court.

The Commissioners appointed to appraise damages on the Bronx river, from White Plains to Bronxville, have held regular meetings. The engineering parties have been steadily employed making surveys for this Commission and for maps necessary to appraise damages on the Bronx river, below Bronxville, and with the construction of the Williamsbridge reservoir.

The work on the Williamsbridge reservoir commenced in April, and has been steadily prosecuted during the quarter.

The conduit has furnished to the city 1,453,000,000 gallons during the quarter.

The conduit, roads, fences and reservoirs, have been kept in order during the quarter by two gangs of men.

## IMPROVEMENT OF FOURTH AVENUE AT NINETY-EIGHTH STREET.

This work was commenced in April, and has been carried on slowly during the quarter.

## AQUEDUCT REPAIRS, MAINTENANCE AND STRENGTHENING.

## Work Done during the Quarter.

DIVISION.	Earth Excavation.	Stone Quarried.	Dry Masonry.	FENCE.		Flagging Laid.	Tile-pipe Laid.	Arching Aqueduct.	Sodding.	Filling.	Seeding.	Planking Dock.	Stone Masonry.	Cut-stone Masonry.
	Cu. yds.	Cu. yds.	Cu. yds.	Repaired.	Built.	Sq. feet.	Lin. feet.	Lin. feet.	Sq. yds.	Cu. yds.	Sq. yds.	Feet. B. M.	Cu. yds.	Cu. feet.
First.....														
Second.....	75	75	90		2,475	136								
Third.....	726		89			100								
Fourth.....	460		105	500				150	320				150	
Fifth.....	257		85	1,200	1,000				859	440	1,500		111	
Sixth.....	480	600	680		510				450					
Seventh.....			3									18,180		537
Eighth.....				690	2,400									
Total.....	1,998	675	1,052	2,390	6,385	136	100	150	1,629	440	1,500	18,180	261	537

The regular work on all divisions has been watching and treating leaks; care of gate-houses and machinery; repairing and cleaning culverts and drains; cleaning up and seeding line of Aqueduct; building and repairing fences and cutting grass.

The particular work on each division has been as follows:

First Division—Care of dam, gate-house, etc.; cleaning lake shores of driftwood; repairing roads; hauling stone below apron of dam; policing neighborhood.

Second Division—Flagging sidewalk in Sing Sing; repairing and rebuilding walls; building and repairing fences; grading, mowing, etc.

Third Division—Building wall on Daniel's and Morrell's bank; grading and seeding completed on waste lot; repairing culverts; building storage sheds; attention to Aspinwall leak.

Fourth Division—Arching at Jaffrey's bank; unloading Jaffrey's and Barney's bank; sodding Barney's bank; building retaining-wall on Wild's bank; grading and cutting grass, etc.

Fifth Division—Building walls in Glen, at gate-house and Warburton avenue; filling and grading Horton's bank; sodding at Warburton avenue; grading and seeding at gate-house.

Sixth Division—Building wall near South Yonkers; quarrying stone; hauling cement from Kingsbridge and sand from High Bridge; sodding at gate-house; attention to leaks.

Seventh Division—Care of gate-houses at High Bridge and reservoir, pumping machinery, etc.; painting house, gate-houses, tool-house, etc.; repairing coal dock; continuance of work on steps; repairing fences.

Eighth Division—Care of reservoirs, gate-houses and machinery; cleaning mains and connections; painting stand-pipe; repairing and repainting boats; building and repairing fences.

The Aspinwall leak, at Tarrytown, has been very troublesome and requires constant watching.

## LAYING CROTON-PIPES.

Contracts for laying Croton-pipes in the following streets and avenues have been completed, viz.:

Seventh avenue, west side, between One Hundred and Tenth and One Hundred and Sixteenth streets.

Kingsbridge road, between McComb's Dam road and Bailey avenue.

Bailey avenue, between Kingsbridge road and Riverdale avenue.

Riverdale avenue, between Bailey avenue and Broadway.

Broadway, between Riverdale avenue and Ackerman street.

St. Ann's avenue, between Third avenue and Southern Boulevard.

Ninth avenue, between Sixty-eighth and Sixty-ninth streets.

Ninth avenue, between Seventy-seventh and Eighty-first streets.

Riverside Drive, between One Hundred and Eighth and One Hundred and Thirteenth streets.

Fordham and Pelham avenues, between Hoffman street and Washington avenue.

Madison avenue, between Talmadge street and Fordham avenue.

Kingsbridge road, across Spuyten Duyvil Creek.

Church street, from Riverdale avenue to Broadway.

Eagle avenue, between One Hundred and Forty-ninth street and Westchester avenue.

One Hundred and Fifty-first street, between Boulevard and St. Nicholas avenue.

Sixty-eighth street, between Eighth and Ninth avenues.

One Hundred and Sixth street, between Eighth and Ninth avenues.

One Hundred and Fiftieth street, between Walton and Cornwell avenues.

Crestin avenue, between High Bridge road and One Hundred and Eighty-fourth street.

One Hundred and Third street, between Fourth and Fifth avenues.

One Hundred and Third street, between Ninth and Tenth avenues.

One Hundred and Twenty-first street, between Seventh and Eighth avenues.

Thirty-first street, between First and Second avenues.

One Hundred and Forty-sixth street, between Third and College avenues.

Ninety-fourth street, between Fourth and Fifth avenues.

Avenue A, between Fifty-fourth and Fifty-fifth streets.

Sixth avenue, between One Hundred and Nineteenth and One Hundred and Twenty-first streets.

Lexington avenue, between One Hundred and Nineteenth and One Hundred and Twentieth streets.

One Hundred and Fifteenth street, from Avenue A 250 feet east.

Two contracts have been entered into for laying pipe. One contract has been entered into for furnishing pipe, and one contract advertised for stop-cocks, hydrants, etc.

## Amount of Pipe laid during the Quarter.

12-inch pipe.....	15,272 lineal feet.
6-inch pipe.....	25,688 "
Total.....	40,960 "

12-inch stop-cocks.....	10
6-inch stop-cocks.....	47
Total.....	57

"A" hydrants.....	54
No. 1 hydrants.....	16
Total.....	70

## METERS.

Number of meters placed during the quarter.....	265
Number of meters in use March 31, 1886.....	13,935
Total number in use June 30, 1886.....	14,200



## SUPPLYING WATER TO SHIPPING AND BUILDING.

232 permits for shipping, amounting to.....	\$5,853 63
295 permits for building purposes, amounting to.....	12,235 38
27 permits for engines on wharves, amounting to.....	344 32
For water measured by meter.....	20,087 77
<b>Total.....</b>	<b>\$38,521 10</b>

## EXAMINATIONS OF INSPECTORS OF WASTE AND USE OF WATER.

WHOLE NUMBER OF BUILDINGS EXAMINED.	WHOLE NUMBER WHERE PLUMBING WAS DEFECTIVE.	FAUCETS.		URINALS.		HYDRANTS.		PIPES BURSTED.
		Leak.	Waste.	Leak.	Waste.	Leak.	Waste.	
9,261	132	119	..	3	..	6	..	4

The large rain-fall during the past six months has enabled the Bronx river to supply fifteen million gallons per day and has filled the reservoirs in Central Park ten feet. The commencement of warmer weather in June has again increased the use of water throughout the city and the reservoirs are losing nearly two inches per day, showing an increased consumption of five millions per day, which will increase during hot, dry weather, thus lowering our reservoirs and decreasing the pressure throughout the city.

Yours respectfully,

G. W. BIRDSALL, Chief Engineer Croton Aqueduct.

## Document "E."

DEPARTMENT OF PUBLIC WORKS,  
WATER PURVEYOR'S OFFICE, NO. 31 CHAMBERS STREET, ROOM 1,  
NEW YORK, July 7, 1886.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—In compliance with your instructions, I beg to submit the following report of the transactions of this Bureau during the quarter ending June 30, 1886.

## REPAIRS AND RENEWAL OF PAVEMENTS AND REGRADING

The average force employed on repairs to pavements during the quarter was as follows:

In April, 45 men and 4 carts.  
In May, 67 men and 9 carts.  
In June, 302 men, 58 carts and 2 teams.

The regular repair force was organized on the 7th day of June, and is making general repairs throughout the city. 34,105 square yards of pavement have been repaired.

In addition to the above, 129 square yards of asphalt pavement were repaired in the following streets and avenues:

Fifth avenue, between Waverly place and Ninth street.

Fifth avenue, between Twenty-fourth and Twenty-fifth streets, and between Twenty-sixth and Twenty-seventh streets.

Fifteenth street, between Fifth and Sixth avenues.

27 permits were issued to citizens to repair pavements at their own expense.

## REPAVING STREETS AND AVENUES (CHAPTER 476, LAWS OF 1875).

1 contract was completed during the quarter, viz.:

Twenty-sixth street, from Eighth to Tenth avenue..... 5,398 square yards  
11 contracts were awarded during the month of June, 5 of which are in progress.

## NEW PAVEMENTS UNDER ASSESSMENT.

3 contracts for new pavements were completed during the quarter, viz.:

Eighty-second street, from Avenue A to Avenue B..... 2,216 square yards.  
Ninety-first street, from Second to Fourth avenue..... 4,956 "  
One Hundred and Thirty-second street, from Seventh to Eighth avenue..... 2,669 "

**Total..... 9,841 "**

## REPAVING FIFTH AVENUE (CHAPTER 371, LAWS OF 1885).

The repaving of Fifth avenue, from Ninth to Ninetieth street, except that part between Thirty-second and Thirty-seventh streets, is being proceeded with in two sections; the lower, commencing at Thirty-seventh street, has been completed northward to the block between Forty-fourth and Forty-fifth streets, and the upper section from Ninetieth street southward to about Eighty-fifth street. The work is progressing in a satisfactory manner.

## REPAIRING AND RENEWAL OF PIPES, STOP-COCKS, ETC.

The average force employed on repairs to pipes, stop-cocks and fire-hydrants, under the direction of this bureau, during the quarter, was as follows:

In April, 71 men and 9 carts.  
In May, 75 men and 10 carts.  
In June, 79 men and 10 carts.

389 defects in pipes and stop-cocks were repaired.

151 taps were shut off on account of leaks in service pipes.

853 repairs were made to fire-hydrants.

105 new fire-hydrants were substituted for old ones.

584 defects in pavements were repaired.

## PUBLIC DRINKING HYDRANTS.

67 drinking-hydrants were repaired.

10 new drinking-hydrants were erected.

## VAULTS.

65 permits were issued to construct vaults.

The amount received for the same is \$21,052.05.

29 permits were issued to repair vaults.

## STREET OPENINGS.

The following is a summary of the work done under the supervision and inspection of this bureau, during the quarter:

4,740 openings to repair mains and make gas, water and sewer service connections.

1,844 notices sent to companies and others to repair bad pavements over their openings.

1,199 bad pavements repaired in compliance with notices sent from this office.

10 77-100 miles of gas, steam and salt-water mains laid.

3 37-100 miles of underground electrical conduits repaired.

37,800 feet of electric-light wires suspended in place of old wires taken down.

The Cable Railway on One Hundred and Twenty-fifth street, now being constructed by the Third Avenue Railroad Co., is the only new railway work in progress.

The Commercial Cable Company has, during the quarter, laid three Waring underground electrical conduits, each containing five wires, on Second avenue, from Twentieth to Ninetieth street, in place of the Siemens cables, which have been destroyed by leakage from gas-mains. The work is still in progress, and, if necessary, will be continued to the Harlem river and south of Twentieth street.

## EXPENDITURES.

124 vouchers were transmitted during the quarter, and charged to the following accounts:	
Public Drinking-hydrants, 1885.....	\$612 50
Public Drinking-hydrants, 1886.....	396 64
Public Drinking-hydrants, Salaries.....	249 99
Repairs and Renewal of Pavements, etc.....	17,718 64
Repairs and Renewal of Pavements, etc., Salaries.....	2,215 00
Repaving Streets and Avenues, 1885.....	13,941 99
Repaving Streets and Avenues, 1886.....	1,618 55
Repaving Streets and Avenues, Salaries.....	198 00
Repaving Fifth Avenue.....	17,021 20
Repairing and Renewal of Pipes, Stop-cocks, etc.....	16,904 60
Restoring and Repaving--Special Fund--Department of Public Works.....	10,280 86
Fund for Local Improvements.....	19,282 63
<b>Total.....</b>	<b>\$100,440 60</b>

Respectfully submitted,

A. CULVER, Water Purveyor.

## Document "F."

DEPARTMENT OF PUBLIC WORKS,  
OFFICE OF ENGINEER IN CHARGE OF SEWERS,  
NO. 31 CHAMBERS STREET, ROOM 9,  
NEW YORK, July 3, 1886.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—In compliance with your instructions, I hand you herewith my report of the transactions of this office for the quarter ending June 30, 1886, showing the present total length of sewerage in the city to be 2,169,630 lineal feet of sewer (410<sup>3</sup>/<sub>8</sub> miles), with 5,040 receiving-basins.

During the quarter two sewers built by the property-owners, under the direction of this office, have been completed, viz.:

One in Seventy-ninth street, between Ninth avenue and summit west, and one in One Hundred and Forty-seventh street, between Tenth avenue and Avenue St. Nicholas; and six others, for which permits have been issued, are now in progress of construction, viz.:

One in Eighty-eighth street, between Boulevard and Tenth avenue.

One in Ninety-seventh street, between Eighth and Ninth avenues.

One in Ninety-seventh street, between Ninth and Tenth avenues.

One in One Hundred and Fifth street, between Tenth avenue and 250 feet east.

One in One Hundred and Twenty-third street, between Eighth avenue and Avenue St. Nicholas.

One in One Hundred and Thirty-sixth street, between Eighth avenue and Avenue St. Nicholas.

One in One Hundred and Fiftieth street, between Tenth avenue and Avenue St. Nicholas, and

One in Avenue St. Nicholas, between One Hundred and Forty-seventh and One Hundred and Forty-eighth streets.

The sewers in "Lexington avenue, between Ninety-fifth and Ninety-seventh streets, and in Ninety-fifth and Ninety-sixth streets, between Lexington and Fourth avenues, etc.," were completed during the past month.

Of the sewers let in 1885, but not contracted for until 1886, two have been completed, viz.:

One in Fourth avenue, east side, between Fifty-fourth and Fifty-fifth streets, and

One in Attorney street, between Stanton and Rivington streets.

There are now in progress of construction, under contracts with this Department, ten sewers, viz.:

One in Tenth avenue, east side, between One Hundred and Sixty-second and One Hundred and Seventieth streets, etc.

One in Eighty-seventh street, between Tenth and Riverside avenues.

One in Ninety-fourth street, between Eighth and Ninth avenues.

One in Ninety-fifth street, between Ninth and Tenth avenues.

One in Ninety seventh street, between Boulevard and Riverside avenue.

One in One Hundred and Sixth street, between summits east and west of Tenth avenue.

One in One Hundred and Sixth street, between Boulevard and summit east.

One in One Hundred and Fourteenth street, between Fourth and Sixth avenues.

One in Forsyth street, between Stanton and Houston streets, etc., and

One in Lexington avenue, between Eighty-third and Eighty-fifth streets.

During the past quarter 1,441 lineal feet of sewer and 51 receiving-basins have been repaired, and 20,964 lineal feet of sewer and 503 receiving-basins have been cleaned.

Respectfully,

HORACE LOOMIS, Engineer in Charge of Sewers.

## REPORT OF THE TRANSACTIONS OF THE OFFICE OF THE ENGINEER IN CHARGE OF SEWERS FOR THE QUARTER ENDING JUNE 30, 1886.

Credit to General Fund—  
Amount received for 421 permits for sewer connections..... \$10,054 71

Engineers' Fees—  
Amount of Engineers' and Surveyors' fees assessed on property benefited, charged on assessment lists and credited to Fund for Local Improvements..... \$1,791 69

Sewers—Repairing and Cleaning—  
Balance on hand March 31, 1886..... \$85,995 88  
Vouchers transmitted to the Commissioner of Public Works—  
Pay-rolls of Laborers, etc..... \$12,459 50  
Sundries, materials, etc..... 5,417 34  
Special repairs, etc..... 9,384 03  
Balance on hand June 30, 1886..... 58,735 01  
**85,995 88**

Salaries—Sewers—Repairing and Cleaning—  
Balance on hand March 31, 1886..... \$6,763 00  
Vouchers transmitted to the Commissioner of Public Works—  
Pay-rolls of Inspectors, etc..... \$2,073 00  
Balance on hand June 30, 1886..... 4,690 00  
**6,763 00**

Salaries—Sewerage System—  
Balance on hand March 31, 1886..... \$11,234 88  
Vouchers transmitted to the Commissioner of Public Works—  
Pay-rolls of Engineers, etc..... \$2,753 00  
Balance on hand June 30, 1886..... 8,481 88  
**11,234 88**

Surveys, Maps, etc., for Street Openings and New Streets—  
Balance on hand March 31, 1886..... \$12,003 94  
Vouchers transmitted to the Commissioner of Public Works—  
Pay-rolls of Draughtsmen, etc..... \$1,275 00  
Balance on hand June 30, 1886..... 10,728 94  
**12,003 94**

Restoring and Repaving—Special Fund—  
Amount received for 566 permits for street openings..... \$6,763 00

Fund for Local Improvements—  
Vouchers transmitted to the Commissioner of Public Works..... \$18,264 97  
Pay-rolls of Engineers, etc..... \$5,764 17  
On contracts for sewers, etc..... 12,500 80  
**18,264 97**

Boring Examinations for Grading and Sewer Contracts—  
Voucher transmitted to the Commissioner of Public Works—  
Pay-rolls of Engineers, etc..... \$699 56

Contingencies—Department of Public Works—  
Voucher transmitted to the Commissioner of Public Works—  
Transportation expenses of Assistant Engineers, etc..... \$185 16

Sewers, Repairing and Cleaning—1885 Account—  
Balance on hand March 31, 1886..... \$128 04  
Voucher transmitted to the Commissioner of Public Works—  
Carriage-way security..... \$114 00  
Balance on hand June 30, 1886..... 14 04  
**128 04**

Work done by Mechanics and Laborers—  
503 receiving-basins and culverts cleaned.  
20,964 lineal feet of sewer cleaned.  
1,441 lineal feet of sewer repaired.  
118 lineal feet of culvert rebuilt.  
120 lineal feet of spur-pipe laid.  
5 lineal feet of new curb set.  
12 lineal feet of curb reset.  
1 receiving-basin rebuilt.  
50 receiving-basins repaired.  
20 new basin-heads and covers put on.  
3 basin-heads reset.  
21 new basin-covers put on.  
114 manholes repaired.  
55 new manhole heads and covers put on.  
56 manhole-heads reset.  
140 new manhole covers put on.  
1 new bulkhead built.



492 square feet of flagging relaid.  
633 square yards of pavement relaid.  
1,545 cubic yards of earth excavated and refilled.  
48 cart-loads of earth filled in.  
1,697 cart-loads of dirt removed.

## Work done by contract—

2,370 lineal feet of sewer built.  
41 lineal feet of culvert built, and  
4 receiving-basins built.

Making the present total length of sewerage in the city 2,169,630 lineal feet (410 $\frac{2}{3}$  miles), with 5,040 receiving-basins.

## Document "G."

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF STREET IMPROVEMENTS, ROOM 5, NO. 31 CHAMBERS STREET,  
NEW YORK, July 7, 1886.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—In compliance with your instructions I beg to hand you herewith a report of the transactions of this Bureau for the quarter ending June 30, 1886.

Respectfully,

W. M. DEAN, Superintendent of Street Improvements.

## STATEMENT OF THE AMOUNT OF WORK DONE DURING THE QUARTER ENDING JUNE 30, 1886.

Earth excavated, cubic yards.....	15,935
Rock excavated, cubic yards.....	35,743
Filling furnished, cubic yards.....	47,751
Curb-stone set, linear yards.....	4,619 $\frac{1}{2}$
Flagging laid, square yards.....	18,650 $\frac{1}{2}$
Dry stone box culvert built, linear yards.....	827
Stone masonry built, cubic yards.....	1,153
Cast-iron inlet-frames and gratings set.....	10

## WORK DONE IN FRONT OF CITY PROPERTY.

Picket fence rebuilt, linear feet.....	74
--	----

## APPROPRIATIONS.

## Contingencies of Department of Public Works—

Amount of vouchers drawn during the quarter.....	\$194 50
--	----------

## Street Improvements—For Surveying, Monumenting and Numbering of Streets.....

Amount of vouchers drawn during first quarter.....	\$259 60
Amount of vouchers drawn during second quarter.....	286 00
Outstanding liabilities estimated.....	962 00
Balance, estimated.....	1,492 40
	3,000 00

## Flagging Sidewalks and Fencing Vacant Lots in front of City Property.....

Amount of vouchers drawn during first quarter.....	\$112 22
Amount of vouchers drawn during second quarter.....	7 40
Balance.....	880 38
	1,000 00

## WORKS COMPLETED.

## Regulating, Grading, etc.:

Morningside avenue, One Hundred and Tenth street to Tenth avenue.....	\$320,616 17
Eleventh avenue, Kingsbridge road to Dyckman street.....	126,607 28
One Hundred and Fifty-third street, 60 feet east of Seventh avenue to New avenue.....	28,216 94
One Hundred and Eighty-fifth street, Tenth avenue to Kingsbridge road.....	26,819 66

Total.....	\$502,260 05
------------	--------------

## AMOUNT OF VOUCHERS DRAWN.

## On account of—

Fund for Local Improvements.....	\$150,388 50
Street Improvements—For Surveying, Monumenting and Numbering of Streets..	286 00
Flagging Sidewalks and Fencing Vacant Lots in front of City Property.....	7 40
Contingencies of Department of Public Works.....	194 50

Total.....	\$150,876 40
------------	--------------

Permits issued for regulating, grading, etc.....	12
--	----

Notices to repair sidewalks issued.....	1,089
---	-------

## Statement showing Works under Contract in Bureau of Street Improvements on the 30th day of June, 1886.

LOCATION OF WORK.	CONTRACTOR.	SURVEYOR.	INSPECTOR.	CONTRACT TIME.	ESTIMATED COST.	AMOUNT EARNED.	AMOUNT RETAINED.	AMOUNT PAID.	REMARKS.
Regulating, Grading, Curb and Flagging—									
Fort Washington Ridge road.....	Allen & O'Maley...	J. McIntyre Smith	James R. Mount..	400 days.	\$130,161 70	\$101,969 00	\$30,590 70	\$71,378 30	
Kingsbridge road, One Hundred and Fifty-fifth to One Hundred and Ninetieth street.....	Allen, O'Grady & Co	J. McIntyre Smith	.....	200 "	71,697 00	100,855 25	30,256 57	70,598 68	{ Work completed, but not yet accepted.
West End avenue, Seventy-second street to Boulevard.....	Thomas O'Maley...	J. McIntyre Smith	Edward T. Bennett	200 "	98,782 38	80,718 00	24,215 40	56,502 60	
Fourth avenue, Ninety-seventh to One Hundred and Second street.....	Michael Egan.....	J. McIntyre Smith	.....	30 "	3,354 50	.....	.....	.....	Work suspended.
Washington street, Twelfth to Fourteenth street.....	Patrick Reilly.....	R. L. Waters....	.....	40 "	3,757 21	.....	.....	.....	{ Work completed, but not yet accepted.
William street, Duane to North William street.....	John Kearney.....	R. L. Waters....	.....	18 "	3,227 20	.....	.....	.....	Work not yet commenced.
Ninety-third street, West End avenue to Riverside Drive.....	William Kelly.....	R. L. Waters....	David Simmons...	350 "	33,987 73	34,783 00	10,434 90	24,348 10	
Ninety-fourth street, Boulevard to Riverside Drive.....	Thomas O'Maley...	R. L. Waters....	Edward C. Brady..	150 "	33,311 60	16,341 00	4,902 30	11,438 70	
One Hundred and Fourteenth street, Fourth to Eighth avenue.....	James Slattery....	J. McIntyre Smith	Mark Neary.....	350 "	23,443 44	.....	.....	.....	
One Hundred and Eighteenth street, Fourth to Sixth avenue.....	Michael Finn.....	J. McIntyre Smith	.....	250 "	29,952 30	29,658 00	8,897 40	20,760 60	{ Work completed, but not yet accepted.
One Hundred and Thirty-second street, Tenth avenue to Broadway....	F. Thilemann, Jr...	R. L. Waters....	Isaac Smith.....	200 "	9,468 56	3,220 00	966 00	2,254 00	
One Hundred and Thirty-third street, Eighth to St. Nicholas avenue....	Henry G. Peters....	R. L. Waters....	Benjamin F. Crane	60 "	1,619 68	.....	.....	.....	
One Hundred and Fifty-fifth street, Eighth avenue to New avenue....	Charles Trainer....	R. L. Waters....	Matthew Stripp...	175 "	8,789 30	.....	.....	.....	
One Hundred and Fifty-fifth street, Eighth avenue to McComb's Dam lane.....	Charles Trainer....	R. L. Waters....	Nathan Frank.....	300 "	12,064 70	5,250 00	1,575 00	3,675 00	
Total.....					\$463,617 30	\$372,794 25	\$111,838 27	\$260,955 98	

## Document "H."

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF STREETS AND ROADS, NO. 31 CHAMBERS STREET,  
NEW YORK, July 10, 1886.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—In compliance with your instructions, I have the honor to submit the following report of work done and material used; also the amounts expended from the various appropriations under the charge of this Bureau for the quarter ending June 30, 1886.

Respectfully,

GEO. E. BABCOCK, Superintendent of Streets.

The following is a statement of the work done, material used and removed on the macadamized and unpaved roads, streets and avenues and boulevards during the second quarter, ending June 30, 1886:

Western Boulevard, between Fifty-ninth and One Hundred and Fifty-fifth streets—  
Cleaning, 1,543 truck-loads dirt removed.  
Spreading gutter stuff, 56 truck-loads (resurfacing).  
Repairs to macadam pavement—  
170 truck-loads broken stone used.  
54 truck-loads Roa Hook gravel used.  
28 truck-loads limestone chips used.  
Repairs to sidewalk, 4 truck-loads dirt used.  
Telford stone removed from center-pieces, 29 team-loads.  
Relaying flagging, spreading gravel bank screenings, between Fifty-ninth and Seventy-ninth streets.  
American elm trees planted, 57.  
Avenue St. Nicholas, between One Hundred and Twenty-fifth and One Hundred and Fifty-fifth streets—  
Cleaning roadway, 517 truck-loads dirt removed.  
Repairing roadway—  
352 truck-loads gravel used.  
25 truck-loads broken stone used.  
3 truck-loads trap-rock screenings used.  
1 truck-load paving blocks used.  
Relaid flagging.  
Gutter-stone reset.  
5 basins cleaned.  
Tenth avenue, between One Hundred and Fifty-first and One Hundred and Sixty-second streets—  
Cleaning roadway and gutters, 177 truck-loads dirt removed.  
Seventy-second street, between Ninth avenue and Riverside Drive—  
Cleaning roadway and gutters, 30 team-loads dirt removed.  
Repairs—  
2 team-loads gneiss stone used.  
2 team-loads broken stone used.  
10 team-loads gravel used.  
One Hundred and Tenth street, Pleasant avenue to Riverside Drive—  
Cleaning roadway and gutters, 236 team-loads dirt removed.  
Repairs—  
14 truck-loads dirt used.  
19 truck-loads stone used.  
2 truck-loads gravel used.  
Relaid flagging.  
One Hundred and Twenty-second street, Tenth avenue to Riverside Drive—  
Cleaning roadway and gutters.  
Repairs, 9 team-loads screenings used.

One Hundred and Forty-fifth street, from Eighth avenue to Boulevard—

Cleaning roadway and gutters—

78 team-loads dirt removed.  
1 team-load stone removed.  
3 team-loads dirt removed from sidewalk.

Repairing One Hundred and Forty-fifth street, between Eighth avenue and Boulevard—

3 team-loads dirt used.  
1 team-load stone used.  
8 $\frac{1}{2}$  team-loads screenings used.  
68 team-loads sand spread.  
1 team-load Telford used.

Sixth avenue, between One Hundred and Tenth and One Hundred and Forty-fifth streets—

Cleaning and repairing—

511 team-loads dirt removed.  
80 team-loads dirt removed from gutters.  
34 $\frac{1}{2}$  team-loads stone used for repairs.  
30 $\frac{1}{2}$  team-loads sand used for repairs.  
4 team-loads Telford used for repairs.  
5 team-loads dirt used for repairs.  
16 $\frac{1}{2}$  team-loads gravel used for repairs.  
19 team-loads paving blocks used for repairs.  
66 team-loads screenings used for repairs.

Resetting flagging and curb.

American elm trees planted, 40.

Repairing and cleaning roadways, Seventh avenue, between One Hundred and Tenth and One Hundred and Fifty-fourth streets—

113 team-loads dirt removed.  
4 team-loads stone removed.  
2 team-loads stone from sidewalk.  
6 team-loads dirt used for repairs.

Relaying flagging and resetting curb—

23 team-loads sand spread.  
165 team-loads clay used for repairs.  
19 $\frac{1}{2}$  team-loads stone used for repairs.  
1 team-load paving blocks used for repairs.  
55 team-loads gravel used for repairs.

American elm trees planted, 66.

Repairing and cleaning roadway and gutters, Avenue A, between Fifty-seventh and Eighty-sixth streets—

411 team-loads dirt removed.  
64 team-loads stone used for repairs.  
6 team-loads sand used for repairs.  
2 team-loads dirt used for repairs.  
1 team-load Telford used for repairs.

Repairing and cleaning roadway and gutters, First avenue, between One Hundred and Ninth and One Hundred and Sixteenth streets—

105 team-loads dirt removed.

Grading new Shop Yards at One Hundred and Nineteenth street—

48 team-loads sand screenings used for repairs.  
137 team-loads sweepings from macadam streets.

Repairing and cleaning roadway and gutters, One Hundred and Tenth street—

236 team-loads dirt removed.

Relaid flagging.

14 team-loads dirt used for repairs.  
19 team-loads stone used for repairs.  
2 team-loads gravel used for repairs.



Repairing and cleaning One Hundred and Twenty-fourth street, Sixth to Seventh avenue and Fifth to Pleasant avenue—

- 14 team-loads dirt removed.
- 18 team-loads gravel bank screenings used for repairs.
- 24 team-loads broken stone used for repairs.
- 37½ team-loads trap-rock screenings used for repairs.

Relaid flagging.

Repairing and cleaning One Hundred and Sixteenth street, Seventh to Pleasant avenue—

- 38 team-loads sand and clay spread.
- 95 team-loads dirt removed.
- 4 team-loads dirt used for repairs.
- 4 team-loads gravel used for repairs.

Repairing and cleaning Mount Morris avenue, between One Hundred and Twentieth and One Hundred and Twenty-fourth street—

- 32 team-loads dirt removed.
- 44 team-loads gravel bank screenings spread.

Relaid flagging; repaired macadam.

One Hundred and Fifty-fifth street, between St. Nicholas avenue and Boulevard—

Repairs; new crosswalk at St. Nicholas avenue.

- 4 team-loads sand used for repairs.
- 225 paving blocks used for repairs.
- 110 lineal feet bridge stone laid.

Repairing and cleaning roadway, Seventy-second street, east.

- 49 team-loads dirt removed.
- 11 team-loads stone used for repairs.

Repairing and cleaning roadways, etc., Manhattan street, between St. Nicholas and Ninth avenues—

- 37 team-loads dirt removed.

Repairing and cleaning roadways, etc., One Hundred and Twenty-third street, between Mount Morris and Eighth avenues—

- 5½ team-loads dirt removed.

Relaid flagging.

Repairing and cleaning roadways and gutters, Fifth avenue, between Fifty-eighth and One Hundred and Tenth streets—

- 72 team-loads dirt removed.
- 18 team-loads stone used for repairs.
- 7 team-loads sand used for repairs.

Repairing and cleaning roadways and gutters, Fifth avenue, between One Hundred and Tenth and One Hundred and Twentieth streets—

- 79 team-loads dirt removed.
- 5 team-loads stone used for repairs.

Repairing and spreading, Fifth avenue, between One Hundred and Twenty-fourth and One Hundred and Thirtieth streets—

- 32 team-loads of sand and clay spread.

Cleaning, dirt removed with hand-carts.

Repairing and cleaning One Hundred and Twentieth street, between Fifth and Mount Morris avenues—

- 4 team-loads dirt removed.

Repairing and cleaning roadways, etc., Tenth avenue, between One Hundred and Fifty-first and One Hundred and Sixty-second streets.

- 177 team-loads dirt removed.

Cleaning Pleasant avenue, between One Hundred and Nineteenth and One Hundred and Twenty-fourth streets—

- 3 team-loads dirt removed.

Repairing and cleaning One Hundred and Twenty-second street, Tenth avenue to Riverside Drive—

- 9 team-loads trap-rock screenings used.

Cleaning done with hand-carts.

Repairing and cleaning St. Nicholas place, One Hundred and Forty-eighth to One Hundred and Fifty-fifth street—

Repairing gutters, 22 feet.

Resetting curb, 19 feet.

Relaying bridge stone, 8 feet.

Cleaning roadway and gutters, One Hundred and Fifty-second street, between St. Nicholas and Tenth avenues—

Dirt removed with hand-cart.

Repairing and cleaning One Hundred and Forty-fifth street, Sixth to Eighth avenue—

Spreading sand.

Repairing macadam.

Dirt removed with wheelbarrows.

The following work was done on unpaved streets:

One Hundred and Twenty-fifth street, between Manhattan and Boulevard—

- 85 team-loads dirt used.
- 6 team-loads stone removed.

Depot lane, between Kingsbridge and Hudson River Railroad—

- 10 team-loads dirt used for repairs.
- 83 team-loads stone used for repairs.
- 4 team-loads limestone chips used for repairs.

Madison avenue, between One Hundred and Thirty-third street and Bridge—

- 10 team-loads dirt removed.

Gutters cleaned.

One Hundred and Sixteenth street, between Seventh and Eighth avenues—

Repaired with sweepings from macadam streets, 5 team-loads dirt used for repairs.

Eighty-sixth street, between Tenth avenue and Riverside Drive—

Repaired with sweepings from Boulevards, 440 team-loads dirt used for repairs.

Fifty-third street, Tenth to Eleventh avenue—

Repaired roadway.

Pleasant avenue, between One Hundred and Fourteenth and One Hundred and Nineteenth streets—

Cleaned gutters.

One Hundred and Seventh street, between Lexington and Third avenues—

Cleaned gutters and shaped roadway.

Kingsbridge road, north of One Hundred and Ninetieth street—

Repaired macadam.

- 94 team-loads stone used.
- 15 team-loads dirt used.
- 78 team-loads limestone chips used.
- 22 team-loads broken stone used.

One Hundred and Fifty-sixth street, between Tenth and Eleventh avenues—

Repaired roadway, 20 team-loads dirt used.

One Hundred and Fifty-second street, between summit west of Boulevard, and Hudson River Railroad tracks—

- 122 team-loads dirt used.

Eleventh avenue, between Sixty-fifth and Seventy-second streets—

Repaired with sweepings from Boulevard, 539 team-loads dirt used.

New avenue, near One Hundred and Tenth street—

- 30 team-loads dirt used.

One Hundred and Fiftieth street, between Tenth and Eleventh avenues—

Repaired with sweepings from macadam streets, 86 team-loads dirt used.

One Hundred and Fifty-fifth street, between Edgecombe and St. Nicholas avenues—

Repaired with sweepings from macadam streets, 45 team-loads dirt used.

One Hundred and Thirty-eighth street, between Tenth and Eleventh avenues—

Repaired with sweepings from macadam streets, 39 team-loads dirt used.

Eleventh avenue, One Hundred and Fifty-fifth and One Hundred and Sixty-second streets—

Repaired with sweepings from macadam streets.

Relaid flagging, 56 square feet, 11 lineal feet curb.

One Hundred and Fiftieth street, between St. Nicholas and Tenth avenues—

Repaired with sweepings from macadam streets, 31 team-loads dirt used.

Fifty-eighth street, between Tenth and Eleventh avenues—

Repaired with sweepings from macadam streets, 4 team-loads dirt used.

One Hundred and Thirty-ninth street, west of Boulevard—

Repaired with sweepings from macadam streets, 4 team-loads dirt used.

One Hundred and Thirty-first street, between Broadway and Eleventh avenue—

Repaired with sweepings from macadam streets, 33 team-loads dirt used.

French Boulevard or Public Drive, north of One Hundred and Fifty-eighth street—

Repaired with sweepings from macadam streets.

- 2 team-loads dirt used.
- 6 team-loads stone used.

Tenth avenue, south of One Hundred and Fifty-fifth street—

Repaired with sweepings from macadam streets, 6 team-loads dirt used.

One Hundred and Twenty-sixth street, between St. Nicholas and Ninth avenues—

Repaired with sweepings from St. Nicholas avenue, 85 team-loads dirt used.

One Hundred and Thirtieth street, near Seventh avenue—

Repaired with sweepings from macadam streets, 6 team-loads dirt used.

One Hundred and Eleventh street and Madison avenue—

Repaired with sweepings from macadam streets.

- 3 team-loads dirt used.
- 8 lineal feet curb reset.

One Hundred and Forty-first street, between Eighth and St. Nicholas avenues—

Repaired with sweepings from macadam streets, 40 team-loads dirt used.

One Hundred and Eleventh street, between Seventh and Eighth avenues—

Repaired with sweepings from macadam streets, 8 team-loads dirt used.

One Hundred and Thirtieth street, from St. Nicholas to Eighth avenue—

Repaired with sweepings from macadam streets, 59 team-loads dirt used.

One Hundred and Thirty-fifth street, west of Eighth avenue—

Repaired with sweepings from macadam streets, 31 team-loads dirt used.

Ninety-third street, between Boulevard and Tenth avenue—

Repaired with sweepings from macadam streets, 21 team-loads dirt used.

Ninety-fourth street, from Tenth avenue to Boulevard—

Repaired with sweepings from macadam streets, 14 team-loads dirt used.

Ninety-sixth street, between Tenth and Eleventh avenues—

Repaired with sweepings from macadam streets, 118 team-loads dirt used.

Ninety-eighth street, between Boulevard and Tenth avenue—

Repaired with sweepings from macadam streets, 14 team-loads dirt used.

One Hundredth street, between Tenth avenue and Boulevard—

Repaired with sweepings from macadam streets, 47 team-loads dirt used.

One Hundred and Third street, between Tenth avenue and Boulevard—

Repaired with sweepings from macadam streets, 11 team-loads dirt used.

One Hundred and Seventy-fifth street, between Tenth avenue and Kingsbridge road—

Macadamized for a width of 21 feet with gneiss rock limestone screenings and sand, on which

was used 616 team-loads stone, broken to proper size by employees of the Bureau, and 152 team-

loads dirt, 9 team-loads broken stone and 80 team-loads limestone screenings; 8 team-loads stone

were placed in gutter to prevent curb from washing out.

Kingsbridge road, between One Hundred and Seventy-fifth and about One Hundred and

Seventy-eighth street—

Partly macadamized with gneiss stone, 465 team-loads of which were broken to the proper size

by employees of the Bureau; 96 team-loads of broken stone used and 7 team-loads dirt.

Barry's Hill, between Seventh avenue and Central Bridge, repaired and cleaned—

5 team-loads dirt removed, 8 team-loads trap-rock screenings spread.

One Hundred and Twelfth street—

Flagging repaired, 48 square feet.

The following are the roads, streets and avenues that have been cleaned or repaired, with the

area of each in square feet:

	Area.	
Western Boulevard, between Fifty-ninth and One Hundred and Fifty-fifth streets—		
Roadway and gutters cleaned, between Fifty-ninth and One Hundred and Fifty-fifth streets, from railroad track to curb.....	1,050,465	square feet.
Gravel bank screenings spread, between Fifty-ninth and Seventy-ninth streets.....	406,800	"
Gutters cleaned, between Manhattan and One Hundred and Fifty-fifth streets.....	57,616	"
Macadam pavement repaired.....	59,895	"
Flagging relaid.....	1,396	"
Avenue St. Nicholas, between One Hundred and Twenty-fifth and One Hundred and Fifty-fifth streets—		
Roadway and gutters cleaned, between One Hundred and Twenty-fifth and One Hundred and Fifty-fifth streets.....	448,233.50	"
Roadway repaired with gravel.....	222,595.50	"
Flagging relaid.....	1,216	"
Gutter-stones reset.....	367	lineal feet.
Curb-stones reset.....	19	"
Stone culvert repaired and cleaned.....	105	"
Basin drain cleaned.....	189	"
Basins cleaned.....	5	"
St. Nicholas place—		
Gutters cleaned, between One Hundred and Forty-eighth and One Hundred and Fifty-fifth streets.....	11,754.64	square feet.
Block pavement gutters repaired.....	66	"
Curb reset.....	19	lineal feet.
Bridge-stone relaid.....	16	square feet.
Tenth avenue, between One Hundred and Fifty-first and One Hundred and Sixty-second streets—		
Roadway and gutters cleaned between railroad tracks and curb.....	38,790	"
Seventy-second street, between Ninth avenue and Riverside Drive—		
Roadway and gutters cleaned.....	123,420	"
Macadam pavement repaired.....	2,822	"
One Hundred and Twenty-second street, between Tenth avenue and Riverside Drive—		
Roadway and gutters cleaned.....	54,306	"
Spread trap-rock screenings between Boulevard and Riverside Drive.....	20,160	"
One Hundred and Forty-fifth street, between Eighth avenue and Boulevard—		
Gutters cleaned.....	19,800	"
Cobble-pavement relaid.....	295	"
Flagging relaid.....	288	"
One Hundred and Fifty-second street, between St. Nicholas avenue and Boulevard—		
Roadway and gutters cleaned.....	42,016.40	"
One Hundred and Fifty-fifth street, between St. Nicholas avenue and Boulevard—		
Roadway and gutters cleaned.....	78,450	"
New bridge-stone laid at St. Nicholas avenue.....	220	"
Macadam pavement repaired.....	855	"
Manhattan street, between Ninth and St. Nicholas avenues—		
Roadway and gutters cleaned.....	30,730	"
Avenue A, between Fifty-seventh and Eighty-sixth streets—		
Roadway and gutters cleaned.....	448,204.20	"
Macadam pavement repaired.....	3,760	"
Fifth avenue, between Fifty-eighth and One Hundred and Tenth streets—		
Roadway and gutters cleaned.....	586,660.32	"
Repaired macadam pavement.....	4,480	"
Seventy-second street, between Avenue A and Fifth avenue—		
Roadway and gutters cleaned.....	153,160	"
Repaired macadam pavement.....	775	"
Seventh avenue, between One Hundred and Tenth and One Hundred and Fifty-fourth streets—		
Cleaning roadway and gutters, between One Hundred and Tenth and One Hundred and Twenty-eighth streets.....	346,155.20	"
Cleaned gutters, between One Hundred and Twenty-eighth and One Hundred and Fifty-fourth streets.....	54,112.60	"
Spread gravel bank screenings, between One Hundred and Tenth and One Hundred and Twenty-eighth streets.....	346,155.20	"
Spread sand and clay, between One Hundred and Twenty-eighth and One Hundred and Thirty-third streets.....	103,932	"
Spread Cow Bay sand, between One Hundred and Thirty-third and One Hundred and Fifty-fourth streets.....	335,714.40	"
Repaired macadam pavement.....	5,533	"
Relaid flagging.....	16	"
Reset curb.....	3	lineal feet.
Cut grass on sidewalk, between One Hundred and Tenth and One Hundred and Fifty-fourth streets.		
St. Nicholas avenue, between One Hundred and Tenth and One Hundred and Twenty-fifth streets—		
Cleaned roadway and gutters from and between railroad tracks to gutters	179,014	square feet.
Repaired gravel pavement.....	50,931	"
Relaid flagging.....	80	"
Reset curb.....	10	lineal feet.



Sixth avenue, between One Hundred and Tenth and One Hundred and Forty-fifth streets—		
Cleaned roadway and gutters between One Hundred and Tenth and One Hundred and Thirty-sixth streets.....	579,233	square feet.
Cleaned gutters between One Hundred and Thirty-sixth and One Hundred and Forty-fifth streets.....	18,277.76	"
Spread gravel bank screenings between One Hundred and Tenth and One Hundred and Thirty-fifth streets.....	555,232.80	"
Repaired macadam pavement.....	39,052	"
Relaid flagging.....	52	"
Reset curb.....	15	lineal feet.
Cut grass on sidewalks between One Hundred and Tenth and One Hundred and Thirtieth streets.		
First avenue, between One Hundred and Ninth and One Hundred and Sixteenth streets—		
Cleaned gutters from One Hundred and Ninth to One Hundred and Sixteenth street.....	88,909.26	square feet.
One Hundred and Sixteenth street, between Seventh and Pleasant avenues—		
Cleaning roadway and gutters from Fourth to Pleasant avenue.....	116,220	"
Cleaned gutters from Fourth to Seventh avenue.....	169,260	"
Repaired macadam pavement.....	160	"
Surfaced with sand and clay Madison and Fifth avenues.....	21,840	"
One Hundred and Twenty-fourth street, from Pleasant to Fifth and Sixth to Seventh avenue—		
Cleaning roadway and gutters.....	141,870	"
Repaired macadam pavement.....	6,605	"
Relaid flagging.....	160	"
One Hundred and Twenty-third street, Eighth to Mount Morris avenue—		
Cleaning roadway and gutters.....	65,100	"
Relaid flagging.....	48	"
Mount Morris avenue, between One Hundred and Twentieth and One Hundred and Twenty-fourth streets—		
Cleaning roadway and gutters.....	62,899.20	"
Spread gravel bank screenings.....	54,512.60	"
Repaired macadam pavement.....	880	"
Relaid flagging.....	76	"
One Hundred and Twentieth street, Fifth to Mount Morris avenue—		
Cleaned roadway and gutters.....	12,900	"
Fifth avenue, from One Hundred and Tenth to One Hundred and Twentieth street—		
Cleaning roadway and gutters.....	112,278.60	"
Fifth avenue, from One Hundred and Twenty-fourth to One Hundred and Thirtieth street—		
Cleaning roadway and gutters.....	62,640	"
Spread sand and clay.....	50,112	"
Repaired macadam pavement.....	360	"
One Hundred and Forty-fifth street, from Sixth to Eighth avenue—		
Cleaned gutters from Sixth to Eighth avenue.....	96,900	"
Spread sand from Sixth to Seventh avenue.....	49,200	"
Repaired macadam pavement.....	964	"
One Hundred and Tenth street, from Seventh to First avenue and Eighth avenue to Riverside Drive—		
Cleaned gutters from Seventh to First avenue.....	220,290	"
Relaid flagging.....	16	"
Repairs to macadam pavement.....	900	"
Pleasant avenue, between One Hundred and Nineteenth and One Hundred and Twenty-fourth streets—		
Cleaned gutters.....	10,553.20	"

The following are the sewer and water connections that have been repaired on various macadam roads, streets and avenues:

Water connection at No. 2038 Fifth avenue, west side. Material used—	
1/2 team-load trap-rock.	
1/2 team-load trap screenings.	
1 team-load sand.	
Sewer connection at No. 72 East One Hundred and Twenty-fourth street, south side. No material furnished by the Department.	
Sewer connection, east side Avenue A, near Eightieth street. Material used—	
2 team-loads of Telford stone.	
3 team-loads of broken stone.	
1 team-load of sand.	
7 team-loads of dirt removed.	
Sewer connection, west side Avenue A, between Seventy-fourth and Seventy-fifth streets. Material used—	
20 team-loads of Telford stone.	
11 team-loads of broken stone.	
2 team-loads of gravel bank screenings.	

The following openings have been rolled and completed:

Sewer connection, east side Avenue A, near Fifty-ninth street—  
Nos. 1064, 1070 and 1074 Avenue A.  
Material furnished by contractor.

Recapitulation of work done on appropriations for Boulevard Maintenance:

Roadway and gutters cleaned.....	4,954,564.40	square feet.
Gutters cleaned.....	516,630.26	"
Macadam pavement repaired.....	127,041.00	"
Gravel bank screenings spread.....	1,362,700.60	"
Roadway repaired with gravel.....	273,526.50	"
Sand and clay spread.....	175,884.00	"
Cow Bay sand spread.....	335,714.40	"
Sand spread.....	49,200.00	"
Trap-rock screenings spread.....	20,160.00	"
Flagging relaid.....	3,348.00	"
New bridge-stone laid.....	220.00	"
Old bridge-stone relaid.....	16.00	"
Block pavement relaid.....	66.00	"
Gutter-stone reset.....	367.00	lineal feet.
Curb reset.....	66.00	"
Stone culvert repaired and cleaned.....	105.00	"
Drain cleaned.....	189.00	"
Cobble-stone pavement relaid.....	295.00	"
Basins cleaned.....	5	"
American elm trees planted.....	163	"

The area cleaned, as given above, is not calculated as the work having been done but once, whereas the fact is some streets and avenues have been cleaned two or three times. Neither is the labor of spreading the material furnished by contract (about 3,800 cubic yards) taken into consideration in the statement of work done.

The following is an account of repairs made to monitors, sprinklers, hand-carts, and also new work, during the quarter:

Monitor No. 7—Painted inside and outside, repaired manhole, 1 cross bar, spliced side bar, 2 new iron plates, 5 new bolts.	
Monitor No. 15—Painted inside and outside.	
Monitor No. 1—Painted inside only.	
Monitor No. 9—Painted inside and outside.	
Monitor No. 16—Painted inside and outside, repaired manhole, overhauled ironwork and tightened bolts, new washers, lashing sprinklers.	
Monitor No. 10—Painted inside and outside, overhauled ironwork, sprinkler.	
Monitor No. 3—Painted inside only, new valve, blocks and rubbers.	
Monitor No. 12—Painted inside and outside, general overhauling to iron and wood work.	
Monitor No. 13—Painted inside and outside, new valve blocks and rubbers.	
Sprinkler No. 19—Overhauled ironwork, replaced bolts, partly painted.	
Monitor No. 14—Painted inside and outside, new cover to manhole, new irons for same, new leather on valves, nailing strips on bottom.	
Monitor No. 4—Painted inside only, overhauled ironwork, replacing bolts.	
Sprinkler No. 24—New pieces on both sides, 2 new hand-irons, general overhauling to iron and wood work, new bolts, repaired frame, lashing sprinklers.	
Monitor No. 5—Painted inside only.	

Monitor No. 6—Painted inside and outside, overhauled ironwork, new valves, blocks and rubbers, 2 new bars.  
Sprinkler No. 20—Painted inside and outside.  
Monitor No. 17—4 new tires.  
Monitor No. 8—Two new bolts.  
Sprinkler No. 25—3 bolts used to repair sprinkler frames.  
Sprinkler No. 29—Repaired sprinkler frame, 3 bolts replaced.  
Monitor No. 2—New pole, making and fitting irons on same, overhauled ironwork, replaced old bolts, lashing sprinkler, 2 new bolts.  
Hand-cart No. 1—Painted.  
Hand-cart No. 2—Setting tires.  
Hand-cart No. 6—Painted.  
Hand-cart No. 8—Painted, new rims, boxing one wheel.  
Hand-cart No. 10—Painted.  
Hand-cart No. 12—Painted.  
Hand-cart No. 13—Painted.  
Hand-cart No. 14—Painted.  
Tool-cart No. 1—New, painted.  
Tool-cart No. 2—New, painted.  
Tool-cart No. 3—Painted.  
Tool-cart No. 4—New, painted.  
Two-horse Roller No. 6—New frame complete and painted, 56 new bolts.  
Two-horse Roller No. 5—New frame complete and painted, bracing wheels, 35 pounds of iron used, and 125 new bolts.  
Horse Rollers—Repaired stone boxes, 48 new bolts.

#### Miscellaneous Work.

Painted 9 wheelbarrows and riveted on new bottoms of sheet-iron, painted 25 water-pails for sprinkling-wagons, painted 23 pairs of whiffletrees for sprinkling-wagons, painted 5 signs "No Admittance to New Yard," lettered new road-scraper, lettered and numbered 10 hooks on hydrant hose, erecting fence across One Hundred and Twentieth street, at Sixth and Seventh avenues; making and placing wooden water-leaders on office and roller house, making wheels for hand-carts, boxing wheels for hand-carts, setting tires on hand-cart wheels, repairing wagon used by Superintendent, repaired steps, refitting couplings to hose, made new shafts for sprinkler, 4 pairs; repaired horse-roller, C washers for sprinklers, repaired road-scraper, 1 new side; repaired 1 pair whiffletrees and 1 sway bar, two new tool-carts complete, stone boat, putting new hose on crooks for sprinklers, raised 2 roller horses, 1 paint shop, 2 monitor sheds, repairs wheels to hand-cart, 4 spokes; made one new road-scraper, road scraper, 8 bolts used; making new pole for horse-roller, repaired step-ladder, new braces; made new hydrant wrenches, 21; lashing sprinklers to sprinkling frames, making and setting 8 new tires on hand-cart wheels, making new grubs, 8; faced 3 hammers, made and placed wedges for hammer handles, stamped 80 new tools, made 1 pair blacksmith's tongs, made stone wedges, 11; boxed 2 wheels for tool-cart, made 2 new gutter bridges for new shop, made clothes closet for Superintendent's office, boxed 2 wheels to road-scraper, sharpened 4 stone wedges, repaired sand screen, new bolts and top boards; put handles on 57 stone-breaking hammers and sledges, repaired windlass, new irons, 4 bolts; painted 3 pairs whiffletrees, sharpened 447 picks, sharpened 12 chisels, steeled 16 picks.

The following materials were used in the above work:

156 pounds of white lead, 8 pounds of black paint, 6 gallons of raw oil, 2 1/4 gallons of varnish, 13 pounds of Venetian red, 200 feet of old, 90 feet of white wood, 23 pounds of nails, 88 pounds of spokes, 8 rims, 3 new couplings, 925 pounds of common iron, 35 pounds of sheet iron, 81 pounds of red lead, 4 3/4 gallons of boiled oil, 5 1/2 gallons of turpentine, 17 pounds of putty, 457 feet of pine, 280 feet of oak, 92 feet of ash, 3 papers of screws, 4 hubs, 165 pounds of tire iron, 451 pounds of carriage bolts, 30 pounds of tire bolts, 10 pounds of steel.

The following macadam streets and avenues have been sprinkled during the quarter:

Avenue A, between Fifty-eighth and Eighty-sixth streets.  
Fifth avenue, between Fifty-eighth and One Hundred and Tenth streets, and One Hundred and Twenty-fourth and One Hundred and Thirtieth streets.  
Seventy-second street, between Avenue A and Fifth avenue, and Ninth Avenue and Riverside Drive.  
Western Boulevard, between Fifty-ninth and Eighty-sixth streets, and One Hundred and Twenty-second and One Hundred and Forty-fifth streets.  
Avenue St. Nicholas, between One Hundred and Tenth and One Hundred and Fifty-fifth streets.  
One Hundred and Fifty-second street, between Avenue St. Nicholas and Boulevard.  
One Hundred and Fifty-fifth street, between Avenue St. Nicholas and Boulevard.  
St. Nicholas place, between One Hundred and Forty-eighth and One Hundred and Fifty-fifth streets.  
Tenth avenue, between One Hundred and Fifty-first and One Hundred and Sixty-second streets.  
Seventh avenue, between One Hundred and Tenth and One Hundred and Fifty-fourth streets.  
Sixth avenue, between One Hundred and Tenth and One Hundred and Forty-fifth streets.  
One Hundred and Tenth street, between First and Fifth avenues.  
One Hundred and Sixteenth street, between Avenue A and Seventh avenue.  
Avenue A, between One Hundred and Sixteenth and One Hundred and Twenty-fourth streets.  
One Hundred and Twenty-fourth street, between Avenue A and Fifth and Sixth and Seventh avenues.

One Hundred and Twenty-third street, between Mount Morris and Eighth avenues.  
Mount Morris avenue, between One Hundred and Twentieth and One Hundred and Twenty-fourth streets.

The total number of barrels of water used during the quarter for sprinkling the macadamized streets and avenues was 17,528 barrels, equal to 10,787,872 gallons.

Sprinkling unpaved streets and roads—

Kingsbridge road, from One Hundred and Ninetieth street to Kingsbridge road.

The following macadam work was done on unpaved streets:

Macadamized One Hundred and Seventy-fifth street, from east curb of Kingsbridge road to west curb of Tenth avenue, 21 feet wide, with broken gneiss stone, sand and limestone screenings. Area, 28,392 square feet.

Partly macadamized Kingsbridge road, from centre of One Hundred and Seventy-fifth street to a point 593 feet north, 21 feet wide. This stone is broken and placed, but not rolled or covered. Area, 13,165.50 square feet.

Macadam pavement on Kingsbridge road, between One Hundred and Ninetieth street (end of contract) and Inwood lane, was repaired with gneiss stone, broken gneiss and limestone screenings. Area, 10,818.25 square feet.

Barry's Hill, between Seventh avenue and Central Bridge, re-surfaced with trap-rock screenings and broken stone. Area, 28,000 square feet.

Curb and flagging repaired—

104 square feet of flagging relaid.

22 square feet of curb reset.

The following is a statement of the appropriations and expenditures on Boulevards, Roads and Avenues—Maintenance for 1886:

Amount appropriated for 1886.....	\$80,000 00
Amount transmitted during the first quarter, 1886.....	6,769 87

Balance, April 1, 1886.....	\$73,230 13
Amount transmitted during the second quarter ending June 30, 1886, is as follows:	
Pay-roll, Laborers, etc., for March 31, 1886.....	\$2,004 00
" " April 15, ".....	2,160 93
" " " 30, ".....	2,848 37
" " May 15, ".....	2,813 75
" " " 31, ".....	2,941 50
" " June 15, ".....	3,278 12
Use of horse, Superintendent of Streets.....	270 00
Paints.....	21 43
Repairs and supplies.....	32 40
Supplies.....	64 32
Sheet iron.....	2 34
Use of horse, Superintendent of Streets.....	180 00
Shovels, brooms, etc.....	196 29
Supplies.....	49 27
Road machine.....	116 49
Sharp sand.....	1,181 57
Lawn-mowers, etc.....	32 50
Stone and screenings.....	957 27
Elm trees.....	282 97
Bolts, etc.....	38 16
Gravel and screenings.....	5,326 98

24,798 66

Balance, July 1, 1886..... \$48,431 47



The following is a statement of the various appropriations and expenditures on Roads, Streets and Avenues, Unpaved—Maintenance for 1886:

Amount appropriated for 1886 .....	\$25,000 00
Amount transmitted during the first quarter, 1886 .....	1,724 25
Balance, April 1, 1886 .....	\$23,275 75
Amount transmitted during the second quarter ending June 30, 1886, is as follows:	
Pay-roll, Laborers, etc., March 31, 1886 .....	\$389 25
" " April 15, " .....	691 75
" " 30, " .....	1,155 25
" " May 15, " .....	1,183 50
" " 31, " .....	1,209 25
" " June 15, " .....	1,346 00
Supplies, etc. ....	42 71
	6,017 71
Balance, July 1, 1886 .....	\$17,258 04

The following is the amount received during the second quarter ending June 30, 1886, for sale at public auction of old iron, etc., and deposited to the credit of the General Fund .....

\$59 68

## Document "I."

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF LAMPS AND GAS,  
NEW YORK, July 8, 1886.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—Herein I submit a report of the transactions of the Bureau of Lamps and Gas for the quarter ending June 30, 1886.

In Exhibit "A" will be found a statement showing the amounts expended for gas to the various public markets, offices, armories, etc., and for the fitting-up, lighting and maintenance of the public lamps.

In Exhibit "B" is a summary of the appropriation for "Lamps and Gas and Electric-lighting," showing an expenditure during the quarter of one hundred and seventy-seven thousand two hundred and ninety-eight dollars and six cents (\$177,298.06), and for the six months of three hundred thousand six hundred and twenty dollars and ninety-nine cents (\$300,620.99), with liabilities amounting to fifty-four thousand eight hundred and ninety-dollars and thirty-two cents (\$54,890.32), leaving an available balance of three hundred and sixty-three thousand two hundred and eighty-eight dollars and sixty-nine cents (\$363,288.69).

Exhibit "C" is a summary of the appropriation for "Salaries—Lamps and Gas and Electric-lighting," and this shows an expenditure during the quarter of twelve hundred and ninety-nine dollars and ninety-nine cents (\$1,299.99), and for the six months of twenty-six hundred and forty-nine dollars and ninety-seven cents (\$2,649.97), with an available balance of twenty seven hundred and fifty dollars and three cents (\$2,750.03).

Exhibit "D" is a summary of the appropriation for "Street Signs on Buildings and Public Lamps," showing an expenditure of one thousand and forty-five dollars (\$1,045.00), with an available balance of thirty-nine hundred and fifty-five dollars (\$3,955.00).

Exhibit "E" is a summary of the "Lamp Account," showing the number of new lamps lighted, old lamps relighted and lamps discontinued during the quarter; a total of sixty-seven (67) new gas-lamps, sixty-four (64) new naphtha-lamps and three (3) new electric-lamps having been fitted-up and lighted; fifty-one (51) old lamps relighted and sixty-three (63) lamps discontinued. The net increase of the public lamps during the quarter was one hundred and twenty-two (122), and the total number of public lamps of all kinds burning June 30 was twenty-four thousand five hundred and fifty-seven.

Exhibit "F" is a statement showing the lowest, highest and average illuminating power of the gases supplied to the city by the several gas companies having mains on the lines of our two photometric stations.

The following statement will show the average amount of impurities found in the gases of the several companies, as determined by the analyses made by Dr. E. G. Love, the Gas Examiner, at the laboratories of this Department:

OF WHAT COMPANY.	SULPHUR. (Grs. in 100 cu. ft.)	AMMONIA. (Grs. in 100 cu. ft.)	SULPHURETED HYDROGEN.
Consolidated Gas Co.—			
New York Branch .....	4.61	0.64	None.
Manhattan Branch .....	9.67	8.01	"
Municipal Branch .....	5.37	0.71	"
Metropolitan Branch .....	21.29	6.07	"
Knickerbocker Branch .....	3.48	0.91	"
New York Mutual Gas-light Co. ....	4.42	0.37	Traces.
Equitable Gas-light Co. ....	2.76	0.25	None.

The following shows the specific gravity of the gases:

Consolidated Gas Co.—	
New York Branch, specific gravity .....	.623
Manhattan Branch, " .....	.483
Metropolitan Branch, " .....	.568
Municipal Branch, " .....	.655
Knickerbocker Branch, " .....	.629
N. Y. Mutual Gas-light Co., " .....	.753
Equitable Gas-light Co., " .....	.673

The following statement will show the average maximum and minimum pressure on the mains of the foregoing companies, as recorded on the pressure registers in our photometric stations, the average being made for the time during which the public lamps are required to be kept lighted:

OF WHAT COMPANY.	AVERAGE MAXIMUM PRESSURE.	AVERAGE MINIMUM PRESSURE.	WHERE TAKEN.	DISTANCE FROM GAS-WORKS.
Consolidated Gas Co.—	Inches.	Inches.		Miles.
New York Branch .....	1.06	0.98	Cor. of Grand street and Bowery	1 <sup>88</sup> / <sub>100</sub>
Manhattan Branch .....	2.09	1.00	" " "	1 <sup>88</sup> / <sub>100</sub>
Metropolitan Branch .....	1.53	0.82	{ Seventy-ninth street, between } { Second and Third avenues. }	3 <sup>22</sup> / <sub>100</sub>
Municipal Branch .....	2.17	1.29	Cor. of Grand street and Bowery	3 <sup>88</sup> / <sub>100</sub>
Knickerbocker Branch .....	2.90	1.32	{ Seventy-ninth street, between } { Second and Third avenues. }	1 <sup>88</sup> / <sub>100</sub>
New York Mutual Gas-light Co. ....	2.41	1.65	Cor. of Grand street and Bowery	1 <sup>88</sup> / <sub>100</sub>
Equitable Gas-light Co. ....	1.99	1.31	" " "	2 <sup>78</sup> / <sub>100</sub>

Yours respectfully,

S. McCORMICK, Superintendent of Lamps and Gas.

## EXHIBIT "A."

Statement showing the Amounts on Vouchers drawn for Gas to the various Public Markets, Armories, etc., and for Fitting-up, Repairing and Lighting the Public Lamps, etc., for the Quarter ending June 30, 1886.

Washington Market .....	\$668 40
Catharine Country Market .....	18 30
Catharine Meat Market .....	19 80
Fulton Meat Market .....	338 55
Fulton Country Market .....	517 65
Essex Market .....	27 30
Centre Market .....	44 70

Clinton Market .....	\$148 20
Union Market .....	5 55
Tompkins Market .....	122 78
Jefferson Market .....	234 78
First District Police Court .....	317 10
Second District Police Court .....	99 96
Third District Police Court .....	36 26
Fourth District Police Court .....	97 44
Fifth District Police Court .....	9 75
First District Civil Court .....	60 60
Second District Civil Court .....	22 80
Fourth District Civil Court .....	10 92
Fifth District Civil Court .....	31 50
Sixth District Civil Court .....	3 08
Eighth District Civil Court .....	9 30
Ninth District Civil Court .....	13 35
Tenth District Civil Court .....	2 33
Court-room, Brown-stone Building .....	85 80
New Court-house .....	1,314 45
City Hall .....	400 95
Corporation Counsel's Office .....	4 95
Corporation Attorney's Office .....	67 80
Receiver of Taxes' Office .....	296 70
Department of Public Works .....	279 45
Department of Taxes .....	9 45
Court of Special Sessions .....	1 05
Assessment Commission .....	1 50
CITY RECORD Bookbindery .....	90 90
County Jail .....	290 08
Pipe Yard, Rivington street .....	1 35
Water Purveyor's Repair Shop, Thirtieth street .....	12 30
Water Purveyor's Repair Shop, Eighty-third street .....	5 10
Water Purveyor's Repair Shop, One Hundred and Twenty-ninth street .....	9 30
South Gate-house .....	73 80
Engine-house, High-water Service, High Bridge .....	67 05
Engine-house, High-water Service, Ninety-eighth street .....	144 00
Clock-tower, Third District Court-house .....	150 36
Photometrical Rooms, Grand street .....	14 77
Photometrical Rooms, Seventy-ninth street .....	2 40
Seventh Regiment Armory .....	484 20
Eighth Regiment Armory .....	224 55
Ninth Regiment Armory .....	340 65
Eleventh Regiment Armory .....	89 74
Twelfth Regiment Armory .....	212 10
Twenty-second Regiment Armory .....	559 72
Sixty-ninth Regiment Armory .....	211 26
Seventy-first Regiment Armory .....	162 54
First Battery Armory .....	39 06
Second Battery Armory .....	88 34
Public Bath, Battery, North river .....	2 55
Public Bath, Duane Street, North river .....	30 30
Public Bath, Fifth Street, East river .....	2 40
Public Bath, Horatio Street, North river .....	3 60
Public Bath, Nineteenth Street, East river .....	1 80
Public Bath, Twenty-seventh Street, North river .....	15 15
Public Bath, Fifty-first Street, North river .....	2 10
Traveling expenses .....	96 80
Gas examinations .....	359 50
Lighting public markets (Pay-rolls) .....	519 00
Cleaning Photometrical Rooms (Pay-rolls) .....	15 00
New lamp-posts, Twenty-third and Twenty-fourth Wards .....	770 00
New street-lamps .....	1,769 00
New street-lamps, Twenty-third and Twenty-fourth Wards .....	362 50
New boulevard lamps .....	831 25
New lamp-irons .....	164 57
New lamp-irons, Twenty-third and Twenty-fourth Wards .....	209 00
Lettering Boulevard globes .....	460 00
Supplies for Photometrical Rooms .....	83 33
Repairing and reglazing lamps .....	208 50
Gas regulators .....	460 00
Drawing materials .....	16 19
Repairing gas-holder on Third Avenue Bridge .....	345 00
Paints, etc. ....	16 67
Cartages .....	50 00
Photometrical Rooms, Grand street—Rent .....	150 00
Photometrical Rooms, Seventy-ninth street—Rent .....	90 00
Fitting-up new lamps .....	670 00
Fitting-up new lamps, Twenty-third and Twenty-fourth Wards .....	72 00
Resetting and repairing lamp-posts .....	1,834 50
Resetting and repairing lamp-posts, Twenty-third and Twenty-fourth Wards .....	212 00
Lighting public lamps .....	83,010 73
Lighting public lamps, Twenty-third and Twenty-fourth Wards .....	30,618 84
Lighting electric-lamps .....	45,532 20
Lighting naphtha-lamps .....	312 51
Total .....	\$177,298 06

## RECAPITULATION.

Gas to public offices, etc. ....	\$8,458 97
Supplies to public lamps, etc. ....	5,234 81
Supplies to public lamps, etc., Twenty-third and Twenty-fourth Wards .....	1,341 50
Fitting-up new lamps .....	670 00
Fitting-up new lamps, Twenty-third and Twenty-fourth Wards .....	72 00
Resetting and repairing lamp-posts .....	1,834 50
Resetting and repairing lamp-posts, Twenty-third and Twenty-fourth Wards .....	212 00
Lighting public lamps .....	83,010 73
Lighting public lamps, Twenty-third and Twenty-fourth Wards .....	30,618 84
Lighting electric-lamps .....	45,532 20
Lighting naphtha-lamps .....	312 51
Total .....	\$177,298 06

## EXHIBIT "B."

Summary of the Appropriation for Lamps and Gas and Electric Lighting, showing the Amount Expended during the Quarter ending June 30, 1886, and the Amount standing to the Credit of the Appropriation.

Amount appropriated for "Lamps and Gas and Electric Lighting" for 1886 .....	\$718,800 00
Amount expended during the quarter ending March 31, 1886 .....	\$123,322 93
Amount expended during the quarter ending June 30, 1886 .....	177,298 06
	300,620 99
Balance against which no vouchers have been drawn .....	\$418,179 01

## LIABILITIES.

Consolidated Gas Co., lighting public lamps, month of June .....	\$26,266 50
Equitable Gas-light Co., " .....	1,724 97
New York Mutual Gas-light Co., " .....	303 33
Central Gas-light Co., " .....	5,453 99
Northern Gas-light Co., " .....	4,185 16
Yonkers Gas-light Co., " .....	842 50
N. Y. & N. J. Globe Gas-light Co., " .....	210 77
Brush Electric Illuminating Co., " .....	7,304 50
United States Illuminating Co., " .....	7,600 60
C. H. Delamater & Co., 300 lamp-irons .....	228 00
C. H. Delamater & Co., 100 lamp-posts .....	770 00
	54,890 32

Balance available June 30, 1886 .....

\$363,288 69



EXHIBIT "C."

Summary of the Appropriation for "Lamps and Gas and Electric Lighting—Salaries," showing the Amount Expended during the Quarter ending June 30, 1886, with the Balance standing to the Credit of the Appropriation.

Amount appropriated for "Lamps and Gas and Electric Lighting—Salaries," 1886...	\$5,400 00
Amount expended during the quarter ending March 31, 1886 .....	\$1,349 98
Amount expended during the quarter ending June 30, 1886 .....	1,299 99
	2,649 97
Balance available June 30, 1886 .....	\$2,750 03

EXHIBIT "D."

Summary of the Appropriation for "Street-signs on Buildings and Public Lamps," showing the Amount Expended during the Quarter ending June 30, 1886, with the Balance standing to the Credit of the Appropriation.

Amount appropriated for "Street-signs on Buildings and Public Lamps" .....	\$5,000 00
Amount expended during the quarter ending June 30, 1886 .....	1,045 00
Balance available June 30, 1886 .....	\$3,955 00

EXHIBIT "E."

Summary of the "Lamp Account," showing the Number of New Lamps Lighted, Old Lamps Relighted, and Lamps Discontinued by each Gas Company during the Quarter ending June 30, 1886.

CONSOLIDATED GAS COMPANY, NEW YORK BRANCH.

Number of lamps lighted March 31, 1886 .....	3,902
Number of new lamps lighted during the quarter .....	2
Number of old lamps relighted during the quarter .....	4
	3,908
Less lamps discontinued during the quarter .....	4
Less lamps transferred to Equitable Gas-light Company .....	61
	65

Number of lamps lighted June 30, 1886..... 3,843

CONSOLIDATED GAS COMPANY, MANHATTAN BRANCH.

Number of lamps lighted March 31, 1886 .....	3,686
Number of new lamps lighted during the quarter .....	1
Number of old lamps relighted during the quarter .....	9
	3,696
Less lamps discontinued during the quarter .....	4
Less lamps transferred to Equitable Gas-light Company .....	74
	78

Number of lamps lighted June 30, 1886..... 3,618

CONSOLIDATED GAS COMPANY, METROPOLITAN BRANCH.

Number of lamps lighted March 31, 1886 .....	4,174
Number of new lamps lighted during the quarter .....	4
Number of old lamps relighted during the quarter .....	7
	4,185
Less lamps discontinued during the quarter .....	24
Less lamps transferred to Equitable Gas Company .....	87
	111

Number of lamps lighted June 30, 1886..... 4,074

CONSOLIDATED GAS COMPANY, HARLEM BRANCH.

Number of lamps lighted March 31, 1886 .....	6,030
Number of new lamps lighted during the quarter .....	43
Number of old lamps relighted during the quarter .....	13
	6,086
Less lamps discontinued during the quarter .....	11

Number of lamps lighted June 30, 1886..... 6,075

Total lighted by Consolidated Gas Company, June 30, 1886..... 17,610

NEW YORK MUTUAL GAS-LIGHT COMPANY.

Number of lamps lighted March 31, 1886 .....	231
Number of new lamps lighted during the quarter .....	0
Number of old lamps relighted during the quarter .....	0
	231
Less lamps discontinued during the quarter .....	0
Less lamps transferred to Equitable Gas-light Company .....	23
	23

Number of lamps lighted June 30, 1886..... 208

EQUITABLE GAS-LIGHT COMPANY.

Number of lamps lighted March 31, 1886 .....	1,419
Number of new lamps lighted during the quarter .....	2
Number of old lamps relighted during the quarter .....	1
Number of lamps transferred from Consolidated Gas Company .....	222

Number of lamps transferred from New York Mutual Gas Company..... 23

Less lamps discontinued during the quarter ..... 1

Number of lamps lighted June 30, 1886..... 1,666

CENTRAL GAS-LIGHT COMPANY.

Number of lamps lighted March 31, 1886 .....	2,238
Number of new lamps lighted during the quarter .....	7
Number of old lamps relighted during the quarter .....	17
	2,262

Less lamps discontinued during the quarter..... 19

Number of lamps lighted June 30, 1886..... 2,243

NORTHERN GAS-LIGHT COMPANY.

Number of lamps lighted March 31, 1886 .....	1,660
Number of new lamps lighted during the quarter .....	8
Number of old lamps relighted during the quarter .....	0
	1,668

Less lamps discontinued during the quarter..... 0

Number of lamps lighted June 30, 1886..... 1,668

YONKERS GAS-LIGHT COMPANY.

Number of lamps lighted March 31, 1886 .....	337
Number of new lamps lighted during the quarter .....	0
Number of old lamps relighted during the quarter .....	0
	337

Less lamps discontinued during the quarter..... 0

Number of lamps lighted June 30, 1886..... 337

Total number of gas-lamps lighted June 30, 1886..... 23,732

NAPHTHA LAMPS.

NEW YORK AND NEW JERSEY GLOBE GAS-LIGHT COMPANY.

Number of lamps lighted March 31, 1886 .....	50
Number of new lamps lighted during the quarter .....	64
Number of old lamps relighted during the quarter .....	0
	114

Less lamps discontinued during the quarter..... 0

Total number of naphtha-lamps lighted June 30, 1886..... 114

ELECTRIC-LAMPS.

BRUSH ELECTRIC ILLUMINATING COMPANY.

Number of lamps lighted March 31, 1886 .....	347
Number of new lamps lighted during the quarter .....	1
Number of old lamps relighted during the quarter .....	0
	348

Less lamps discontinued during the quarter..... 0

Number of lamps lighted June 30, 1886..... 348

UNITED STATES ILLUMINATING COMPANY.

Number of lamps lighted March 31, 1886 .....	361
Number of new lamps lighted during the quarter .....	2
Number of old lamps relighted during the quarter .....	0
	363

Less lamps discontinued during the quarter..... 0

Number of lamps lighted June 30, 1886..... 363

Total number of electric-lamps lighted June 30, 1886..... 711

RECAPITULATION.

Number of gas-lamps lighted March 31, 1886 .....	23,677
Number of naphtha-lamps lighted March 31, 1886 .....	50
Number of electric-lamps lighted March 31, 1886 .....	708
	24,435

Number of new gas-lamps lighted during the quarter .....	67
Number of new naphtha-lamps lighted during the quarter .....	64
Number of new electric-lamps lighted during the quarter .....	3
	134

Number of gas-lamps relighted during the quarter .....	51
Number of naphtha-lamps relighted during the quarter .....	0
Number of electric-lamps relighted during the quarter .....	0
	51

Less gas-lamps discontinued during the quarter..... 63

Less naphtha-lamps discontinued during the quarter..... 0

Less electric-lamps discontinued during the quarter..... 0

Total number of lamps lighted June 30, 1886 ..... 24,557

EXHIBIT "F."

Statement showing the Illuminating Power of the Gases supplied by the several Gas-light Companies during the Quarter ending June 30, 1886, as shown by the Daily Observations at the Photometrical Rooms of the Department of Public Works.

FOR WHAT TIME.	CONSOLIDATED GAS CO. NEW YORK BRANCH.			CONSOLIDATED GAS CO. MANHATTAN BRANCH.			CONSOLIDATED GAS CO. METROPOLITAN BRANCH.			CONSOLIDATED GAS CO. MUNICIPAL BRANCH.			CONSOLIDATED GAS CO. KNICKERBOCKER BRANCH.			N. Y. MUTUAL GAS-LIGHT CO.			EQUITABLE GAS-LIGHT CO.		
	ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.		
Week Ending—	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.
Apr. 3.....	25.48	26.96	25.93	18.76	19.80	19.05	20.66	22.01	21.23	29.35	30.44	29.72	24.29	25.59	24.96	28.00	31.02	29.57	28.60	32.82	31.04
" 10.....	23.71	25.65	24.45	18.42	19.57	18.83	20.70	21.59	21.23	28.45	29.31	28.90	23.89	24.68	24.24	27.73	31.32	29.11	30.18	31.51	30.87
" 17.....	25.76	27.05	26.20	19.01	19.69	19.44	21.23	22.39	21.79	28.53	31.00	30.14	24.60	26.96	25.62	28.33	30.39	29.19	29.18	30.38	29.69
" 24.....	27.04	28.14	27.45	19.62	20.55	19.97	21.22	22.35	21.75	28.93	31.79	30.93	25.21	26.75	25.91	29.33	31.18	30.38	30.00	33.15	31.54
May 1.....	26.84	28.28	27.33	18.63	19.18	18.83	21.83	22.78	22.22	29.89	31.17	30.63	25.14	25.74	25.38	29.31	31.15	30.53	30.63	31.42	31.02
" 8.....	27.18	29.31	28.06	19.40	20.60	19.93	22.26	23.21	22.76	29.74	31.69	30.70	24.52	26.69	25.67	30.73	32.17	31.53	31.15	33.71	32.71
" 15.....	25.01	27.48	26.12	18.35	19.49	18.83	20.82	23.30	21.63	27.06	31.22	28.74	25.74	27.13	26.21	27.86	29.73	29.02	29.18	32.72	31.39
" 22.....	24.53	26.26	25.16	18.49	19.87	19.16	21.90	22.67	22.34	28.00	30.45	28.69	24.32	26.19	25.20	27.36	32.12	29.95	30.11	32.78	31.49
" 29.....	25.61	27.05	26.42	19.06	19.94	19.53	22.28	23.16	22.64	28.96	29.64	29.25	23.48	25.54	24.56	29.57	31.49	30.66	29.98	32.94	31.39
June 5.....	25.48	26.37	26.05	18.78	18.92	18.85	21.45	22.00	21.82	29.78	30.60	30.11	23.17	24.72	23.78	30.35	31.92	31.04	32.24	32.78	32.49
" 12.....	23.29	26.33	25.22	18.87	19.70	19.32	21.69	22.78	22.30	29.07	29.92	29.55	23.04	24.32	23.69	28.96	30.28	29.73	31.95	33.71	33.06
" 19.....	24.17	26.31	25.50	17.93	21.43	20.32	21.89	22.64	22.10	28.30	30.65	29.81	23.48	24.14	23.90	28.45	31.10	30.10	30.18	33.12	32.31
" 26.....	25.04	27.15	26.40	21.28	22.63	21.85	21.96	23.73	22.67	28.84	29.73	29.31	22.32	24.45	22.98	29.18	32.30	30.91	30.76	32.57	31.80
Distance from Gas-works.....	1.20 Miles			1.00 Miles			3.22 Miles			3.84 Miles			1.50 Miles			1.01 Miles			2.70 Miles		
Testing burner.....	Bray's Slit Union No. 7....			Empire, 5 feet .....			Bray's Slit Union No. 6....			Bray's Slit Union No. 7....			Bray's Slit Union No. 7....			Bray's Slit Union No. 7....			Bray's Slit Union No. 7....		
Gas .....	Water gas (Tessie du Motay)			Coal gas .....			Coal and naphtha.....			Water gas (Tessie du Motay)			Water gas (Tessie du Motay)			Water gas.....			{ Water gas (Jerzmanowski process).		



## Document "K."

CITY OF NEW YORK—DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF REPAIRS AND SUPPLIES,  
SUPERINTENDENT'S OFFICE, No. 31 CHAMBERS STREET, ROOM 15,  
NEW YORK, July, 1886.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—In compliance with your instructions, I have the honor to submit the following report of the transactions of this Bureau for the three months ending June 30, 1886:

Among the principal items of work were the following:

## THE NEW COURT-HOUSE.

County Clerk's Office—Two rooms on the west side of the Chambers street entrance have been fitted up for the use of the Searchers in this office. The walls and ceilings have been washed off, plastering repaired, ceilings kalsomined, walls painted and hardwood work cleaned and varnished. A yellow pine floor has been laid in the outer room, new book-cases built in both rooms, and the shelving and pigeon-holes in the large safes altered; a new water-closet, urinal and wash-basin put in, gas fixtures put up and twelve new desks furnished.

Common Pleas—The walls and ceilings of the room and lobby occupied by the Naturalization Bureau cleaned, painted and kalsomined and an ornamental border put up on the walls. In Parts One and Two the walls have been washed off, plastering repaired, the walls and trim painted and hardwood work cleaned and varnished. The carpet in Part Two has been cleaned and relaid and a new carpet laid in Part One. New curtains and lambrequins have been put up over the Judges' bench in Part Two, and also in the Special Term and Chambers.

Supreme Court—Two black walnut cases of pigeon-holes have been furnished for the Special Term, Part Two. Jury chairs have been furnished for the Oyer and Terminer and Parts Three and Four of Circuit, and bent dining-chairs supplied to the several court-rooms.

Surrogate's Court—Two black walnut desks have been furnished.

The Boiler-room—New grate bars of an improved pattern have been put in the furnace under one of the boilers, and have given entire satisfaction. The vault-lights and covers over the boiler-room and the iron gratings on Chambers street and Broadway side of the building have been repaired.

## THE CITY HALL.

The rooms occupied by the Police in the basement have been cleaned, plastering repaired, ceilings kalsomined, walls and trim painted, grained work touched up and varnished, and some new window-shades put up.

The Reporters' Room—The walls, ceiling and woodwork have been cleaned, walls painted and ceiling kalsomined, and the floor covered with linoleum.

Board of Assessors—New window-shades have been put up and a black walnut desk furnished.

## THE BROWN-STONE BUILDING.

The valve and piston of the elevator have been repacked and a new hand-rope put in. New suction valves and springs have been put in the steam-pump, and a steam damper-regulator and a pressure-recording gauge, with necessary valves, fixtures and appliances, have been attached to the steam-boiler.

The District Attorney's Office—The room of Assistant District Attorney Fitzgerald has been furnished with a rotary chair, office chairs, a wardrobe and revolving book-case, and the glass panel in the door appropriately lettered.

A contract for the ventilation of the building on an improved system was entered into, and the work is now nearly completed.

## THE HALL OF RECORDS.

A sash-door and transom-light have been put up in the doorway of the toilet-room. The window sash on the third floor have been repaired, a new door put in on the north side of the room. A counter-shelf and book-racks have been put up in the second story, and repairs made to the plumbing.

## NO. 31 CHAMBERS STREET.

Map racks and shelving have been put up in the new fire-proof vault, for use of the Bureau of Engineering. New chains and fastenings have been placed on the vault covers on Reade street side of the building. A partition has been built in the basement to inclose a store-room for use of the Bureau of Lamps and Gas. New hand and governor ropes have been put in the elevator, and the piston and valve re-packed. A "Peerless" damper regulator and a pressure recording gauge, with the necessary fittings, have been attached to the steam boiler. An iron wire railing, with gates, etc., has been put up in Room No. 16. The desk and office furniture of Room No. 14 has been removed, altered and put up in Room No. 12. A closet for documents has been built in the vault, and a case of pigeon-holes furnished for use of the Water Register's Bureau.

## THE STEWART BUILDING.

Finance Department—A wardrobe, lounge, desk, chairs and looking-glass have been furnished for the Comptroller's office, and cases of pigeon-holes have been supplied to the Deputy Comptroller and the Auditor's Bureau.

## STAATS ZEITUNG BUILDING.

Corporation Counsel's Office—The shelving of the document cases in Room No. 1 has been made wider and the cases inclosed with paneled doors. Some shelves and pigeon-holes have been put up in Room No. 6. Two black walnut cases, with shelves and closets, have been put up and a new carpet laid in Room No. 2, third floor. New Holland shades have been put on the windows in Rooms Nos. 1, 2 and 3, fourth floor.

## THE COURTS (POLICE AND CIVIL).

Second District Civil Court—New carpet and linoleum have been laid in the Clerk's office, and law books, for use of the Court, have been furnished.

The Third District Court-house—The slate and tin roofs and the gutters have been repaired and the tin work painted with metallic paint. A damper-regulator and a pressure-recording gauge have been attached to the steam-boiler.

Fifth District Civil Court—The walls, ceilings and woodwork of the third story, and the hall and stairway leading thereto, have been washed off, plastering repaired, ceilings kalsomined, grained work touched up and varnished, windows and doors repaired, new locks put on where needed, the yard fence rebuilt, the roof repaired and painted, and new window-shades put up.

Sixth District Civil Court—A new carpet has been laid in the Judges' room.

Seventh District Court-house—The roof has been repaired, new tubes put into the leaders, the flashings pointed up and gutters cleaned and painted. The flooring in the corridor and the doors and windows have been repaired.

Eighth District Civil Court—The walls and ceilings in the court-room, the Clerk's office and adjoining rooms and hallways have been washed off, painted and kalsomined.

Eleventh District Civil Court—A case of shelving and a desk have been put up for the use of this court.

## THE COUNTY JAIL.

The roof, gutters and leaders have been repaired, the coping pointed with Portland cement, the flashing repaired and the roof painted. The walls and ceilings of the corridors and cells have been cleaned and whitewashed, the iron work scraped off, the window sashes and frames and all painted woodwork on the second floor painted. The ceilings of the galleries have been cleaned and varnished. The walls and ceilings of the office, kitchen and Warden's rooms and the stairway have been cleaned, plastering repaired, ceilings kalsomined, walls painted and grained work touched up and varnished.

## THE MARKETS.

Jefferson Market—The roof and the cornice on Sixth avenue side of the building have been repaired and painted.

Clinton Market—The centre gable on Spring street has been painted and signs forbidding bill-posting, etc., have been painted on the new siding on Spring street.

Fulton Market—The roof of the shed around the market and the tin and gravel roofs have been repaired, the flashings pointed up and the roofs painted.

Centre Market—The gravel roof of the extension on Broome street has been repaired and three new metallic skylights have been put up.

West Washington Market—Repairs to Vesey Street Pier have been made in front of stands Nos. 3, 4, 12, 14, 18, 21, 22, 23 and 24, and opposite Devoe and Prospect avenues.

## THE ARMORIES.

Sixty-ninth Regiment Armory—The flooring in the basement has been repaired, the street doors secured with iron bars, and lock fasteners placed on the second-story windows. The lockers in Company K's room have been overhauled and additional lockers built, the locks put in good order and the gas fixtures repaired.

## THE FREE FLOATING BATHS.

New tin roofs were put on Baths Nos. 4 and 5 and the roofs painted; the roofs of the rest of the baths were put in good repair and made weather-proof. The tanks were taken out of the baths, scraped, caulked with navy oakum, payed with pitch and replaced in position. Repairs were made to the carpenter work, including cornices, doors, weatherboarding, flooring, hooks, hinges, locks and buttons, of all the baths. The gas-fitting and fixtures were put in good order and new fixtures furnished where needed. The suction pumps were repaired and new valves, plungers and leathers

supplied where needed. New rubber treads were put on the steps of the baths and a new landing platform built at Twenty-seventh street, North river, for use of the bath. The baths were painted inside and outside and supplied with cables, ropes, blocks, chains, and all the necessary supplies, and towed from their winter quarters to their summer stations on the river fronts.

## PIPE-YARD, TWENTY-FOURTH STREET AND EAST RIVER.

The works to be done under contract for rebuilding, new sheds, etc., is being progressed as rapidly as possible.

In addition to the foregoing, the needed repairs were made to the furniture in the various courts and offices in the care of this Bureau, the window awnings repaired and put up, and the necessary office supplies furnished.

Very respectfully,

THOMAS H. MCAVOY, Superintendent.

## Document "L."

DEPARTMENT OF PUBLIC WORKS—BUREAU OF INCUMBRANCES,  
ROOM 16, NO. 31 CHAMBERS STREET,  
NEW YORK, July 1, 1886.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

DEAR SIR—Herewith I submit a report of the business of this Bureau for the quarter ending June 30, 1886 (months of April, May and June).

Number of complaints received and notices issued for the removal of obstructions and incumbrances on streets, avenues, and sidewalks, 302.

Number of removals of merchandise, wagons, trucks, stands, etc., to the Corporation Yard, foot of Gansevoort street, North river, 421.

Expense of such removals, including 61 loads of stone and dirt, etc., and 55 dead and dangerous trees from various parts of the city.....

\$1,002 21

Total expenses for the quarter.....

1,677 21

Received from owners for the redemption of seized articles, etc.....

\$387 20

Received from sale held at the Corporation Yard, foot of Gansevoort street, North river, Friday, May 7, 1886.....

299 43

Total.....

\$686 63

All of which was duly paid over to the City Chamberlain.

Number of permits issued to builders.....

2,563

" " cut down trees.....

11

" special permits issued.....

331

" notices issued to repair vault covers.....

1

Very respectfully,

GEORGE A. McDERMOTT, Superintendent of Incumbrances.

## Document "M."

DEPARTMENT OF PUBLIC WORKS—BUREAU OF WATER REGISTER,  
NO. 31 CHAMBERS STREET,  
NEW YORK, July 1, 1886.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—I herewith transmit statement of moneys received for water rents, penalties and taps, for the quarter ending June 30, 1886:

	Principal.	Penalties.	Taps.
April.....	\$56,859 93	\$768 60	\$1,736 00
May.....	301,303 08	560 40	1,066 00
June.....	336,628 52	430 80	1,190 00
Total.....	\$694,791 53	\$1,759 80	\$3,992 00
Total.....	\$700,543 33		

Deposit to the credit of "Water-meter Fund, No. 2"—

April.....	\$1,767 24
May.....	608 90
June.....	716 69
Total.....	\$3,092 83

Special Fund—"Repairing Streets"—

April.....	\$1,382 00
May.....	1,019 00
June.....	984 00
Total.....	\$3,385 00

Respectfully submitted,

J. H. CHAMBERS, Water Register.

## LEGISLATIVE DEPARTMENT.

OFFICE OF THE BOARD OF ALDERMEN,  
NO. 8 CITY HALL,  
NEW YORK, May 29, 1886.

## PUBLIC NOTICE.

A resolution, of which the following is a copy, was adopted by the Common Council, May 26, 1886, and was approved by the Mayor, May 28, 1886, viz.:

"Resolved, That in consideration of the fact that little, if any, business is transacted in the public offices of the Corporation after 12 o'clock, M., on Saturdays during the summer season, the various offices of the City, except those specially required by law to be kept open, be closed at noon every Saturday during the months of June, July, August and September, and the heads of the several departments of the City government be and are hereby requested to give their employees a half-holiday on Saturdays during the months above named."

FRANCIS J. TWOMEY, Clerk Common Council.

## EXECUTIVE DEPARTMENT.

MAYOR'S OFFICE,  
NEW YORK, January 7, 1886.

Pursuant to section 9 of chapter 339, Laws of 1883, I hereby designate

"New York Times" and the "Daily News" two of the daily newspapers printed in the City of New York, in which notice of each sale of unredeemed pawns or pledges by public auction in said city, by pawnbrokers, shall be published for at least six days previous thereto, until otherwise ordered.

W. R. GRACE, Mayor.

MAYOR'S OFFICE,  
NEW YORK, December 31, 1885.

In pursuance of the ordinance, approved April 30, 1877, and amended June 1, 1877, entitled, "An ordinance to prevent the danger of hydrophobia to any of the inhabitants of the City of New York," notice is hereby given that all Dogs found at large in the City of New York on and after January 1, contrary to such ordinance, will be seized and disposed of as provided therein.

The Dog Pound at the foot of Sixteenth street, East river, is hereby designated as the place where dogs so captured must be delivered to the Keeper thereof. The Pound will be open from eight o'clock A. M. until five o'clock P. M. daily, Sundays excepted, on and after the first day of January, 1886.

WM. R. GRACE,  
Mayor.

## OFFICIAL DIRECTORY.

STATEMENT OF THE HOURS DURING WHICH all the Public Offices in the City are open for business, and at which each Court regularly opens and adjourns, as well as of the places where such offices are kept and such Courts are held; together with the heads of Departments and Courts.

## EXECUTIVE DEPARTMENT.

Mayor's Office.

No. 6 City Hall, 10 A. M. to 3 P. M.  
WILLIAM R. GRACE, Mayor; WILLIAM L. TURNER, Secretary and Chief Clerk.

Mayor's Marshal's Office.

No. 1 City Hall, 9 A. M. to 4 P. M.  
THOMAS W. BYRNES, First Marshal.  
GEORGE W. BROWN, Jr., Second Marshal.



## COMMISSIONERS OF ACCOUNTS.

Rooms 114 and 115, Stewart Building, 9 A. M. to 4 P. M.  
WM. PITT SHEARMAN, J. B. ADAMSON.

## AQUEDUCT COMMISSIONERS.

Room 209, Stewart Building, 5th floor, 9 A. M. to 5 P. M.  
THE MAYOR, President; JAMES W. McCULLOH, Secretary; BENJAMIN S. CHURCH, Chief Engineer; J. C. LULLBY, Auditor.

## BOARD OF ARMORY COMMISSIONERS.

THE MAYOR, Chairman; PRESIDENT OF DEPARTMENT OF TAXES AND ASSESSMENTS, Secretary.  
Address M. COLEMAN, Staats Zeitung Building, Tryon Row. Office hours, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.

## LEGISLATIVE DEPARTMENT.

Office of Clerk of Common Council.

No. 8 City Hall, 10 A. M. to 4 P. M.  
ROBERT B. NOONEY, President Board of Aldermen.  
FRANCIS J. TWOMEY, Clerk Common Council.

## City Library.

No. 12 City Hall, 10 A. M. to 4 P. M.

## DEPARTMENT OF PUBLIC WORKS.

## Commissioner's Office.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
ROLLIN M. SQUIRE, Commissioner; WILLIAM V. SMITH, Deputy Commissioner.

## Bureau of Chief Engineer.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
GEORGE W. BIRDSALL, Chief Engineer.

## Bureau of Water Register.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
JOHN H. CHAMBERS, Register.

## Bureau of Street Improvements.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
WM. M. DEAN, Superintendent.

## Engineer-in-Charge of Sewers.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
HORACE LOOMIS, Engineer-in-Charge.

## Bureau of Repairs and Supplies.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
THOMAS H. McAVOY, Superintendent.

## Bureau of Water Purveyor.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
ALSTON CULVER, Water Purveyor.

## Bureau of Lamps and Gas.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
STEPHEN MCCORMICK, Superintendent.

## Bureau of Streets.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
GEO. E. BABCOCK, Superintendent.

## Bureau of Incumbencies.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
GEO. A. McDERMOTT, Superintendent.

## Keeper of Buildings in City Hall Park.

MARTIN J. KEESSE, City Hall.

## FINANCE DEPARTMENT.

## Comptroller's Office.

No. 15 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
EDWARD V. LOEW, Comptroller; RICHARD A. STORRS, Deputy Comptroller.

## Auditing Bureau.

Nos. 19, 21, 23 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
WM. J. LYON, Auditor of Accounts; DAVID E. AUSTEN, Deputy Auditor.

Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents.  
Nos. 31, 33, 35, 37, 39 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
ARTEMAS S. CADY, Collector of Assessments and Clerk of Arrears.

## Bureau for the Collection of City Revenue and of Markets.

Nos. 1 and 3 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
JAMES J. KELSO, Collector of the City Revenue and Superintendent of Markets.

## Bureau for the Collection of Taxes.

First floor, Brown-stone Building, City Hall Park.  
GEORGE W. McLEAN, Receiver of Taxes; ALFRED VREDENBURG, Deputy Receiver of Taxes.

## Bureau of the City Chamberlain.

Nos. 25, 27 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
WM. M. IVINS, City Chamberlain.

## Office of the City Paymaster.

No. 33 Reade street, Stewart Building.  
City Paymaster.

## LAW DEPARTMENT.

## Office of the Counsel to the Corporation.

Staats Zeitung Building, third floor, 9 A. M. to 5 P. M.  
Saturdays, 9 A. M. to 4 P. M.  
E. HENRY LACOMBE, Counsel to the Corporation  
ANDREW T. CAMPBELL, Chief Clerk.

## Office of the Public Administrator.

No. 49 Beekman street, 9 A. M. to 4 P. M.  
RICHARD J. MORRISON, Public Administrator.

## Office of the Corporation Attorney.

No. 49 Beekman street, 9 A. M. to 4 P. M.  
WILLIAM A. BOYD, Corporation Attorney.

## POLICE DEPARTMENT.

## Central Office.

No. 300 Mulberry street, 9 A. M. to 4 P. M.  
STEPHEN B. FRENCH, President; WILLIAM H. KIPP, Chief Clerk; JOHN J. O'BRIEN, Chief Bureau of Elections.

## DEPARTMENT OF CHARITIES AND CORRECTION.

## Central Office.

No. 66 Third avenue, corner Eleventh street, 8.30 A. M. to 5.30 P. M.  
HENRY H. PORTER, President; GEORGE F. BRITTON, Secretary.

## FIRE DEPARTMENT.

Office hours for all except where otherwise noted from 9 A. M. to 4 P. M. Saturdays, to 3 P. M.

## Headquarters.

Nos. 155 and 157 Mercer street.  
HENRY D. PURROY, President; CARL JUSSEN, Secretary.

## Bureau of Chief of Department.

CHARLES O. SHAY, Chief of Department.

## Bureau of Inspector of Combustibles.

PETER SEERY, Inspector of Combustibles.

## HEALTH DEPARTMENT.

No. 301 Mott street, 9 A. M. to 4 P. M.  
ALEXANDER SHALER, President; EMMONS CLARK, Secretary.

## DEPARTMENT OF PUBLIC PARKS.

Emigrant Industrial Savings Bank Building, Nos. 27 and 29 Reade street, 9 A. M. to 4 P. M.  
HENRY R. BECKMAN, President; CHARLES DE F. BURNS, Secretary.

## Civil and Topographical Office.

Arsenal, Sixty-fourth street and Fifth avenue, 9 A. M. to 5 P. M.

## Office of Superintendent of 23d and 24th Wards.

One Hundred and Forty-sixth street and Third avenue, 9 A. M. to 5 P. M.

## DEPARTMENT OF DOCKS.

Battery, Pier A, North River, 9 A. M. to 4 P. M.  
L. J. N. STARK, President; B. W. ELLISON, Secretary.  
Office hours from 9 A. M. to 4 P. M. daily, except Saturdays; on Saturdays as follows: from October 1 to June 1, from 9 A. M. to 3 P. M.; from June 1 to September 30, from 9 A. M. to 12 M.

## DEPARTMENT OF TAXES AND ASSESSMENTS.

Staats Zeitung Building, Tryon Row, 9 A. M. to 4 P. M. Saturdays, 3 P. M.  
MICHAEL COLEMAN, President; FLOYD T. SMITH, Secretary.

Office Bureau Collection of Arrears of Personal Taxes.  
Brown-stone Building, City Hall Park, 9 A. M. to 4 P. M.  
CHARLES S. BEARDSLEY, Attorney; WILLIAM COMBERFORD, Clerk.

## DEPARTMENT OF STREET CLEANING.

Nos. 31 and 32 Park Row, "World" Building, Rooms 8 and 9, 9 A. M. to 4 P. M.  
JAMES S. COLEMAN, Commissioner; JACOB SEABOLD, Deputy Commissioner; R. W. HORNBER, Chief Clerk.

## NEW AQUEDUCT.

## NEW YORK SECTION.

NOTICE OF APPLICATION FOR CONFIRMATION OF THE REPORT OF COMMISSIONERS OF APPRAISAL, NEW YORK SECTION, DATED AUGUST 3, 1886, AS TO PARCEL FIFTY-EIGHT (58) AND REAL ESTATE CONTIGUOUS THERETO.

PUBLIC NOTICE IS HEREBY GIVEN THAT it is my intention to make application before the Honorable Jackson O. Dykman, at a Special Term of the Supreme Court of the State of New York, to be held in the Second Judicial District, at the Court-house in White Plains, on the 11th day of September, 1886, at 11 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard, to confirm the report as to Parcel Fifty-eight (58) and real estate contiguous thereto, of the Commissioners of Appraisal appointed in the above matter, pursuant to the provisions of chapter 490 of the Laws of 1883, which said report was filed in the office of the Clerk of the County of Westchester, on the 11th day of August, 1886, and a copy of which was filed in the office of the Clerk of the City and County of New York on the same day.

Dated New York, August 11, 1886.

E. HENRY LACOMBE,  
Counsel to the Corporation,  
2 Tryon Row, New York City

## FIRE DEPARTMENT.

HEADQUARTERS FIRE DEPARTMENT,  
CITY OF NEW YORK,  
155 and 157 MERCER STREET,  
NEW YORK, August 12, 1886.

## TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING THE materials and labor, and doing the work required in repairing the floating engine "Wm. F. Havemeyer" (Engine Co. No. 43), of this Department, will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 155 and 157 Mercer street, in the City of New York, until 11 o'clock A. M., Wednesday, August 25, 1886, at which time and place they will be publicly opened by the head of said Department and read.

No estimate will be received or considered after the hour named.

For information as to the amount and kind of work to be done, bidders are referred to the specifications, which form part of these proposals.

The form of the agreement (with specifications), showing the manner of payment for the work, may be seen, and forms of proposals may be obtained at the office of the Department.

Bidders will write out the amount of their estimate in addition to inserting the same in figures.

The work is to be completed and delivered within thirty (30) days after the execution of the contract.

The damages to be paid by the contractor for each day that the contract may be unfulfilled after the time specified for the completion thereof shall have expired, are fixed and liquidated at twenty (\$20) dollars.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall present the same in a sealed envelope, to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation and a statement of the work to which it relates.

The Fire Department reserves the right to decline any and all bids or estimates if deemed to be for the public interest. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud; and that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as sureties for its faithful performance, in the sum of three thousand and five hundred (\$3,500) dollars; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract,

over and above all his debts of every nature, and over and above his liabilities as bail, surety, or otherwise, and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York before the award is made and prior to the signing of the contract.

No estimate will be considered unless accompanied by either a certified check upon one of the national banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of one hundred and seventy-five (175) dollars. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-book, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

HENRY D. PURROY,  
RICHARD CROKER,  
ELWARD SMITH,  
Commissioners.

HEADQUARTERS  
FIRE DEPARTMENT, CITY OF NEW YORK,  
155 & 157 MERCER STREET,  
NEW YORK, May 12, 1885.

NOTICE IS HEREBY GIVEN THAT THE Board of Commissioners of this Department will meet daily, at 10 o'clock A. M., for the transaction of business.

## By order of

HENRY D. PURROY, President  
RICHARD CROKER,  
ELWARD SMITH,  
Commissioners.

CARL JUSSEN,  
Secretary.

## HEALTH DEPARTMENT.

HEALTH DEPARTMENT—CITY OF NEW YORK,  
No. 301 MOTT STREET,  
NEW YORK, August 5, 1886.

## PROPOSALS FOR ESTIMATES FOR THE ERECTION OF TWO FRAME PAVILIONS ON NORTH BROTHERS ISLAND.

PROPOSALS FOR ESTIMATES FOR THE erection of two frame pavilions on North Brothers Island, City and County of New York, will be received by the Commissioners of the Health Department, at their office, No. 301 Mott street, until 2.30 o'clock P. M. of the 17th day of August, 1886, at which time and place they will be publicly opened and read by said Commissioners.

Any person making an estimate for the above work shall furnish the same in a sealed envelope to the head of said Health Department, indorsed, "Estimate for the Erection of two Frame Pavilions on North Brothers Island, City and County of New York," and also with the name of the person or persons presenting the same, and the date of its presentation.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, each in the penal sum of \$3,500.

Bidders are required to submit their estimates upon the following express conditions, which shall apply to and become part of every estimate received:

1st. Bidders must satisfy themselves by personal examination of the location of the proposed work, and by such other means as they may prefer, as to the accuracy of the estimate, and shall not at any time after the submission of an estimate, dispute or complain of the statement of quantities, nor assert that there was any misunderstanding in regard to the nature or amount of the work to be done.

2d. Bidders will be required to complete the entire work to the satisfaction of the Health Department, and in substantial accordance with the specifications of the contract and the plans therein referred to. No extra compensation beyond the amount payable for the work before mentioned, which shall be actually performed, at the prices therefor to be specified by the lowest bidder, shall be due or payable for the entire work.

Bidders will state in their estimates a price for the whole of the work to be done, in conformity with the approved form of contract and the specifications therein set forth, by which price the bids will be tested. This price is to cover all expenses of every kind involved in or incidental to the fulfillment of the contract, including any claim that may arise through delay, from any cause, in the performing of the work thereunder.

Bidders will distinctly write out, both in words and in figures, the amount of their estimates for doing this work.

The person or persons to whom the contract may be awarded will be required to attend at this office with the sureties offered by him or them, and execute the contract within five days from the date of the service of a notice to that effect; and in case of failure or neglect so to do he or they will be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet, and so on until it be accepted and executed.

Bidders are required to state in their estimate their names and places of residence, the names of all persons interested with them therein; and if no other person be so interested, the estimate shall distinctly state that fact; also that the estimate is made without any connection with any other person making an estimate for the same work, and that it is in all respects fair, and without collusion or fraud; and also that no member of the Common Council, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof; which estimate must be verified by the oath, in writing, of the party making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, on its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which said person or persons would be entitled on its completion, and that which said Corporation or the Health Department may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work to be done by which the bids are tested; the

consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract and stated in the proposal, over and above all his debts of every nature, and over and above his liabilities as bail, surety and otherwise; and that he has offered himself as surety in good faith, and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York, after the award is made and prior to the signing of the contract.

No estimate will be received or considered unless accompanied by either a certified check upon one of the National Banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-book, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk, and found to be correct. All such deposits, except that of the successful bidder, will be returned by the Comptroller to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect within five days after notice that the contract has been awarded to him to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but, if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him by the Comptroller.

No estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter as surety or otherwise, upon any obligation to the Corporation.

Bidders are requested, in making their bids or estimates, to use a blank prepared for that purpose by the Department, a copy of which, together with the form of the agreement, including specifications, and showing the manner of payment for the work, can be obtained upon application therefor at the office of the Department.

The Department reserves the right to reject any or all estimates not deemed beneficial to or for the public interest.

Plans may be examined, and specifications and blank forms for bids or estimates obtained, by application to the Secretary of the Board, at his office, No. 301 Mott street, New York.

ALEXANDER SHALER,  
WOOLSEY JOHNSON,  
WILLIAM M. SMITH,  
STEPHEN B. FRENCH,  
Commissioners.

## DEPARTMENT OF PUBLIC WORKS.

DEPARTMENT OF PUBLIC WORKS,  
COMMISSIONER'S OFFICE,  
ROOM 6, No. 31 CHAMBERS STREET,  
NEW YORK, August 4, 1886.

## TO CONTRACTORS.

BIDS OR ESTIMATES, INCLOSED IN A SEALED envelope, with the title of the work and the name of the bidder indorsed thereon, also the number of the work as in the advertisement, will be received at this office, until Wednesday, August 18, 1886, at 12 o'clock M., at which place and hour they will be publicly opened by the head of the Department and read, for

- No. 1. SEWER IN LEXINGTON AVENUE, between One Hundred and Twenty-second and One Hundred and Twenty-third streets.
- No. 2. SEWER IN SIXTY-FOURTH STREET, between Avenue A and First avenue.
- No. 3. SEWER IN SEVENTY-FOURTH STREET, between Ninth and Tenth avenues.
- No. 4. SEWER IN ONE HUNDRED AND FIFTEENTH STREET, between Seventh and Eighth avenues.
- No. 5. REGULATING AND GRADING SIXTY-FIFTH STREET, from First avenue to Avenue A, and SETTING CURBSTONES AND FLAGGING SIDEWALKS THEREIN.
- No. 6. REGULATING AND GRADING EIGHTY-SECOND STREET, from the Boulevard to the Riverside Drive, and SETTING CURBSTONES AND FLAGGING SIDEWALKS THEREIN.
- No. 7. REGULATING AND GRADING EIGHTY-NINTH STREET, from the Boulevard to the Riverside Drive, and SETTING CURBSTONES AND FLAGGING SIDEWALKS THEREIN.
- No. 8. REGULATING AND GRADING ONE HUNDRED AND SECOND STREET, from Ninth avenue to Riverside Drive, and SETTING CURBSTONES AND FLAGGING SIDEWALKS THEREIN.
- No. 9. REGULATING AND GRADING ONE HUNDRED AND FORTY-NINTH STREET, from Seventh to Eighth avenue, and SETTING CURBSTONES AND FLAGGING SIDEWALKS THEREIN.
- No. 10. REGULATING AND GRADING ONE HUNDRED AND SIXTY-FIFTH STREET, from Edgecomb road to Tenth avenue, and SETTING CURBSTONES AND FLAGGING SIDEWALKS THEREIN.
- No. 11. LAYING AN ADDITIONAL COURSE OF FLAGGING, four feet wide, on the sidewalks of SEVENTH AVENUE, from One Hundred and Twenty-eighth to One Hundred and Forty-fifth street.
- No. 12. PAVING MADISON AVENUE, from the northerly line of Eighty-sixth street to the northerly line of One Hundred and Thirty-fifth street, with granite-block pavement, with a foundation of broken stone thoroughly rolled, and LAYING CROSSWALKS at the intersecting streets, where required.
- No. 13. PAVING ONE Hundred and Third street, from First to Second avenue, with granite-block pavement, with a foundation of broken stone thoroughly rolled, and LAYING CROSSWALKS at the intersecting streets where required.

Each estimate must contain the name and place of residence of the person making the same, the names of all persons interested with him therein, and if no other person be so interested, it shall distinctly state that fact. That it is made without any connection with any other person making an estimate for the same work, and is in all respects fair and without collusion or fraud. That no member of the Common Council, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the Corporation is directly or indirectly interested in the estimate or in the work to which it relates or in the profits thereof.

Each estimate must be verified by the oath, in writing, of the party making the same, that the several matters therein stated are true, and must be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, to the effect that if the contract is awarded to the person making the estimate, they will, upon its being so awarded, become bound as his sureties for its faithful performance; and that if he shall refuse or neglect to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled upon its completion and that which the Corporation may be obliged to pay to the person to whom the contract shall be awarded at any subsequent letting; the amount to be calculated upon the estimated amount of the work by which the bids are tested.

The consent last above mentioned must be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and



over and above his liabilities as bail, surety, or otherwise, and that he has offered himself as surety in good faith, with the intention to execute the bond required by law.

No estimate will be considered unless accompanied by either a certified check upon one of the State or National banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall neglect or refuse, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and be retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

**THE COMMISSIONER OF PUBLIC WORKS RESERVES THE RIGHT TO REJECT ALL BIDS RECEIVED FOR ANY PARTICULAR WORK IF HE DEEMS IT FOR THE BEST INTERESTS OF THE CITY.**

Blank forms of bid or estimate, the proper envelopes in which to inclose the same, the specifications and agreements, and any further information desired, can be obtained for Sewers, at Room 8; for Regulating and Grading, Room 5, and for Paving, Room 1, No. 31 Chambers street.

ROLLIN M. SQUIRE,  
Commissioner of Public Works.

## DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,  
No. 66 THIRD AVENUE,  
NEW YORK, Aug. 9, 1886.

IN ACCORDANCE WITH AN ORDINANCE OF the Common Council, "In relation to the burial of strangers or unknown persons who may die in any of the public institutions of the City of New York," the Commissioners of Public Charities and Correction report as follows:

At Morgue, Bellevue Hospital, from foot of Seventy-second street, North river—Unknown man; aged about 50 years; 5 feet 7 inches high; gray hair, blue eyes. Had on black diagonal coat and vest, dark corded pants, white shirt, white knit undershirt, white cotton socks, gaiters.

At Workhouse, Blackwell's Island—Francis Wright, aged 49 years. Committed June 14, 1886.

Nothing known of their friends or relatives.  
By order G. F. BRITTON,  
Secretary.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,  
No. 66 THIRD AVENUE,  
NEW YORK, August 9, 1886.

IN ACCORDANCE WITH AN ORDINANCE OF the Common Council, "In relation to the burial of strangers or unknown persons who may die in any of the public institutions of the City of New York," the Commissioners of Public Charities and Correction report as follows:

At Morgue, Bellevue Hospital, from foot of Pike street—Unknown man, aged about 35 years; 5 feet 5 inches high; dark hair, black moustache, gray eyes. Had on white shirt, white knit undershirt, red flannel drawers, red woolen socks.

Unknown man, from foot of West Tenth street, aged about 35 years; 5 feet 8½ inches high; brown hair, sandy moustache, gray eyes. Had on blue check jumper, white knit undershirt and drawers, blue overalls, white cotton socks, brogan shoes.

At Workhouse, Blackwell's Island—James D. Blair, aged 28 years. Committed July 27, 1886.

Annie Hestler, aged 36 years. Committed June 11, 1886.

At Homeopathic Hospital, Ward's Island—Joseph Legenstein, aged 38 years; 5 feet 11 inches high; blue eyes, brown hair. Had on when admitted dark mixed coat, brown striped pants, blue check jumper, gaiters, black derby hat.

Nothing known of their friends or relatives.  
By order G. F. BRITTON,  
Secretary.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,  
No. 66 THIRD AVENUE,  
NEW YORK, August 2, 1886.

IN ACCORDANCE WITH AN ORDINANCE OF the Common Council, "In relation to the burial of strangers or unknown persons who may die in any of the public institutions of the City of New York," the Commissioners of Public Charities and Correction report as follows:

At Morgue, Bellevue Hospital, from Central Park—Unknown man; aged about 40 years; 5 feet 8 inches high; sandy hair and moustache. Had on brown sack coat, dark pants, red flannel shirt, red socks, brogan shoes; black felt hat.

Unknown man, from Sixteenth Precinct Station-house; aged about 40 years; 5 feet 6 inches high; sandy hair and moustache; brown eyes. Had on black coat; gray mixed pants, blue flannel shirt, white knit undershirt and drawers, brogan shoes, red woolen socks.

At Workhouse, Blackwell's Island—John Jourdan; aged 33 years; committed June 29, 1886.

Ann Russell; aged 49 years; committed June 20, 1886.

At Homeopathic Hospital, Ward's Island—Ann Cornell; aged 50 years; 5 feet 8 inches high; brown eyes; gray hair. Had on when admitted, black alpaca skirt, slippers, brown velvet hat.

Alexandro Lavo; aged 35 years; 5 feet 8 inches high; blue eyes; black hair. Had on when admitted, black ribbed coat, dark mixed vest, brown check pants, gaiters, black felt hat.

Frank Smith; aged 33 years; 5 feet 2 inches high; blue eyes; brown hair. Had on when admitted, gray coat, dark mixed vest, black diagonal pants, gaiters, black derby hat.

Patrick Keegan; aged 54 years; 5 feet 5 inches high; blue eyes; auburn hair. Had on when admitted, black coat, pants and vest, laced shoes, brown derby hat.

Mary McGloin; aged 35 years; 5 feet 5 inches high; blue eyes; auburn hair. Had on when admitted, blue skirt and sacque, black Jersey, gaiters, brown straw hat.

Nothing known of their friends or relatives.  
By order G. F. BRITTON,  
Secretary.

## CORPORATION NOTICE.

**PUBLIC NOTICE IS HEREBY GIVEN TO THE** owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 2218, No. 1. Regulating, grading, setting curb-stones and flagging, and paving with macadamized pavement the avenue bounding Morningside Park on the east from One Hundred and Tenth to One Hundred and Twenty-third street, providing tree spaces, etc., and regulating, grading, etc., One Hundred and Twenty-third street, from Ninth to Tenth avenue, and providing tree spaces.

List 2335, No. 2. Regulating and grading, Morningside avenue and constructing retaining-walls in connection therewith, from the northerly line of One Hundred and Tenth street to the easterly line of Tenth avenue, and setting curb-stones and flagging sidewalks therein.

The limits embraced by such assessments include all the

several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of the avenue (bounding Morningside Park on the east), from One Hundred and Tenth to One Hundred and Twenty-third street, and to the extent of half the block at the intersecting streets, also both sides of One Hundred and Twenty-third street, from Ninth to Tenth avenue, and to the extent of half the block at the intersecting avenues.

No. 2. Both sides of the avenue (bounding Morningside avenue on the west), from One Hundred and Tenth street to the Tenth avenue, and to the extent of half the block at the intersecting streets.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 11½ City Hall, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 15th day of September, 1886.

EDWARD GILON, Chairman.  
PATRICK M. HAVERTY,  
CHAS. E. WENDT,  
VAN BRUGH LIVINGSTON,  
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,  
No. 11½ CITY HALL,  
NEW YORK, August 14, 1886.

**PUBLIC NOTICE IS HEREBY GIVEN TO THE** owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 1344, No. 1. Regulating, grading, setting curb and gutter-stones and flagging Lexington avenue, from One Hundred and Second street to Harlem river.

List 1596, No. 2. Regulating, grading, curb, gutter and flagging Madison avenue, from Ninety-ninth to One Hundred and Fifth street.

List 1899, No. 3. Paving Lexington avenue, from One Hundred and Fourth to One Hundred and Thirty-first street, with granite-block pavement.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of Lexington avenue, from One Hundred and Second street to Harlem river, and to the extent of half the block at the intersecting streets.

No. 2. Both sides of Madison avenue, from Ninety-ninth to One Hundred and Fifth street, and to the extent of half the block at the intersecting streets.

No. 3. Both sides of Lexington avenue, from One Hundred and Fourth to One Hundred and Thirty-first street, and to the extent of half the block at the intersecting streets.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 11½ City Hall, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 1st day of September, 1886.

EDWARD GILON, Chairman.  
PATRICK M. HAVERTY,  
CHAS. E. WENDT,  
VAN BRUGH LIVINGSTON,  
Board of Assessors.

**PUBLIC NOTICE IS HEREBY GIVEN TO THE** owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 2193, No. 1. Regulating, grading, setting curb-stones in One Hundred and Fifty-first street, from the west curb of Avenue St. Nicholas to the east line of the Boulevard.

List 2220, No. 2. Constructing sewers and appurtenances in One Hundred and Forty-sixth street, between Third avenue and Brook avenue, with branches in Willis avenue, between One Hundred and Forty-sixth and One Hundred and Forty-seventh streets, and in Courtland avenue, between Third avenue and One Hundred and Fifty-first street.

List 2309, No. 3. Regulating, grading, curbing and flagging sidewalks in Eighty-fifth street, between Ninth and Tenth avenues.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of One Hundred and Fifty-first street, from Avenue St. Nicholas to the Boulevard.

No. 2. Both sides of One Hundred and Forty-sixth street, from Third to Brook avenue; both sides of Willis avenue, between One Hundred and Forty-sixth and One Hundred and Forty-seventh streets; both sides of Courtland avenue, between Third avenue and One Hundred and Fifty-first street, and block bounded by Third and Willis avenues, One Hundred and Forty-sixth and One Hundred and Forty-seventh streets.

No. 3. Both sides of Eighty-fifth street, between Ninth and Tenth avenues.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 11½ City Hall, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 31st day of August, 1886.

EDWARD GILON, Chairman.  
PATRICK M. HAVERTY,  
CHAS. E. WENDT,  
VAN BRUGH LIVINGSTON,  
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,  
No. 11½ CITY HALL,  
NEW YORK, July 30, 1886.

## POLICE DEPARTMENT.

POLICE DEPARTMENT—CITY OF NEW YORK,  
OFFICE OF THE PROPERTY CLERK (Room No. 9),  
No. 300 MULBERRY STREET,  
NEW YORK, 1885.

**OWNERS WANTED BY THE PROPERTY** Clerk of the Police Department of the City of New York, No. 300 Mulberry street, Room No. 9, for the following property, now in his custody, without claimants: Boots, rope, iron, lead, male and female clothing, boots, shoes, wine, blankets, diamonds, canned goods, liquors, etc., also small amount money taken from prisoners and found by patrolmen of this Department.

JOHN F. HARRIOT,  
Property Clerk

## SUPREME COURT.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to the opening of ONE HUNDRED AND SEVENTEENTH STREET, from Eighth avenue to Ninth avenue, in the Twelfth Ward of the City of New York.

**PURSUANT TO THE STATUTES IN SUCH** cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to

be held at Chambers thereof in the County Court-house, in the City of New York, on Friday, the 27th day of August, 1886, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as One Hundred and Seventeenth street, from Eighth avenue to Ninth avenue, in the Twelfth Ward of the City of New York, being the following described lots, pieces or parcels of land, viz.:

Beginning at a point in the westerly line of Eighth avenue, distant 201 feet 10 inches northerly from the northerly line of One Hundred and Sixteenth street; thence westerly and parallel with said street 370 feet to the easterly line of Manhattan avenue; thence northerly along said line 60 feet; thence easterly 370 feet to the westerly line of Eighth avenue; thence southerly along said line 60 feet to the point or place of beginning.

Also, beginning at a point in the westerly line of Manhattan avenue, distant 201 feet 10 inches northerly from the northerly line of One Hundred and Sixteenth street; thence westerly and parallel with said street 370 feet to the easterly line of Ninth avenue; thence northerly along said line 60 feet; thence easterly 370 feet to the westerly line of Manhattan avenue; thence southerly along said line 60 feet to the point or place of beginning.

Said street to be 60 feet wide between the lines of Eighth and Ninth avenues.

Dated New York, July 26, 1886.

E. HENRY LACOMBE,  
Counsel to the Corporation,  
2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to the opening of ONE HUNDRED AND EIGHTEENTH STREET, from Eighth avenue to Ninth avenue, in the Twelfth Ward of the City of New York.

**PURSUANT TO THE STATUTES IN SUCH** cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Friday, the 27th day of August, 1886, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging required for the opening of a certain street or avenue, known as One Hundred and Eighteenth street, from Eighth avenue to Ninth avenue, in the Twelfth Ward of the City of New York, being the following-described lots, pieces or parcels of land, viz.:

Beginning at a point in the westerly line of Eighth avenue distant 463 feet 8 inches northerly from the northerly line of One Hundred and Sixteenth street, thence westerly and parallel with said street 370 feet to the easterly line of Manhattan avenue, thence northerly along said line 60 feet, thence easterly 370 feet to the westerly line of Eighth avenue, thence southerly along said line 60 feet to the point or place of beginning.

Also beginning at a point in the westerly line of Manhattan avenue distant 463 feet 8 inches northerly from the northerly line of One Hundred and Sixteenth street, thence westerly and parallel with said street 370 feet to the easterly line of Ninth avenue, thence northerly along said line 60 feet, thence easterly 370 feet to the westerly line of Manhattan avenue, thence southerly along said line 60 feet to the point or place of beginning.

Said street to be 60 feet wide between the lines of Eighth and Ninth avenues.

Dated New York, July 26, 1886.

E. HENRY LACOMBE,  
Counsel to the Corporation,  
2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title wherever the same has not been heretofore acquired to that part of EAST ONE HUNDRED AND EIGHTY-FOURTH STREET (although not yet named by proper authority), extending from Sedgwick avenue to the division line between the second and third-class portions of said street, as shown upon the map of the Fordham Heights District, said line being distant 122½ feet easterly from the easterly line of the land heretofore acquired for the Croton Aqueduct in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a second-class street or road by the Department of Public Parks.

**PURSUANT TO THE STATUTES IN SUCH** cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court to be held at Chambers thereof, in the County Court-house, in the City of New York, on Friday, the 27th day of August, 1886, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended, is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue, known as East One Hundred and Eighty-fourth street, extending from Sedgwick avenue to the division line between the second and third-class portions of said street, as shown upon the map of the Fordham Heights District, said line being distant 122½ feet easterly from the easterly line of the land heretofore acquired for the Croton Aqueduct in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a second-class street or road by the Department of Public Parks, being the following-described lots, pieces or parcels of land, viz.:

Beginning at a point in the easterly line of Sedgwick avenue, distant 13,516½ feet northerly from the eastern prolongation of the southern line of One Hundred and Fifty-fifth street, measured at right angles to the same.

1st. Thence easterly, on the arc of a circle whose center lies in the southeastern prolongation of the radial line of Sedgwick avenue, drawn through the point of beginning, and whose radius is 100 feet, for 100 feet to a point of compound curve;

2d. Thence southeasterly, on the arc of a circle tangent to the preceding curve, whose radius is 175 feet, for 100½ feet to a point of reverse curve;

3d. Thence easterly, on the arc of a circle tangent to the preceding curve, whose radius is 160 feet, for 269½ feet to a point of reverse curve;

4th. Thence northeasterly, on the arc of a circle tangent to the preceding curve, whose radius is 160 feet, for 201½ feet;

5th. Thence southeasterly, on a line tangent to the preceding curve, for 704½ feet;

6th. Thence curving to the right, on the arc of a circle whose radius is 40 feet, for 63½ feet;

7th. Thence northeasterly on the arc of a circle whose center lies in the southern prolongation of the radius of the preceding curve, drawn through its southern extremity, and whose radius is 650 feet, for 149½ feet;

8th. Thence westerly, on the arc of a circle whose cen-

tre lies in the northwestern prolongation of the radius of the preceding curve drawn through its northern extremity, and whose radius is 61½ feet, for 81½ feet;

9th. Thence northwesterly, on a line tangent to the preceding curve, for 704½ feet;

10th. Thence southwesterly, curving to the left on the arc of a circle tangent to the preceding curve, whose radius is 220 feet, for 276½ feet to a point of reverse curve;

11th. Thence westerly, on the arc of a circle tangent to the preceding curve, whose radius is 100 feet, for 168½ feet to a point of reverse curve;

12th. Thence northwesterly, on the arc of a circle tangent to the preceding curve, whose radius is 235 feet, for 118½ feet, to a point of reverse curve;

13th. Thence northerly, on the arc of a circle tangent to the preceding curve, whose radius is 30 feet, for 57½ feet to the easterly line of Sedgwick avenue.

14th. Thence southwesterly, along the easterly line of Sedgwick avenue, for 165½ feet to the point of beginning.

And as shown on certain maps filed by the Commissioners of the Department of Public Parks in the office of the Register of the City and County of New York, and in the office of the Secretary of State of the State of New York.

Dated New York, July 26, 1886.

E. HENRY LACOMBE,  
Counsel to the Corporation,  
No. 2 Tryon Row, New York City.

## FINANCE DEPARTMENT.

CITY OF NEW YORK,  
FINANCE DEPARTMENT,  
COMPTROLLER'S OFFICE,  
July 26, 1886.

## NOTICE TO PROPERTY-OWNERS.

**IN PURSUANCE OF SECTION 916 OF THE** "New York City Consolidation Act of 1882," the Comptroller of the City of New York hereby gives public notice to all persons, owners of property affected by the following assessment lists, viz.:

Beekman place sewers, between Forty-ninth and Fifty-first streets.

Madison avenue sewers, alteration and improvement to, between Fifty-seventh and Fifty-ninth streets, and in Fifty-seventh street, east and west of Madison avenue.

Fifth avenue sewer, east side, between Fifty-fifth and Fifty-ninth streets.

West End avenue (formerly Eleventh avenue) sewer, between Sixty-fifth and Sixty-sixth streets, and in Sixty-fifth street, between West End and Tenth avenues.

West End avenue (formerly Eleventh avenue) sewer, between Ninety-sixth and One Hundred and Fifth streets.

Boulevard sewer, between One Hundred and Fifty-fifth and One Hundred and Fifty-seventh streets, and in One Hundred and Fifty-fifth street, between the Boulevard and Tenth avenue.

Forty-seventh street sewer, extension at the East river Ninety-seventh street sewer, between Third and Fourth avenues, from end of present sewer east of Lexington avenue.

One Hundred and Thirty-first street sewer, between Sixth and Seventh avenues.

One Hundred and Thirty-fifth street sewer and appurtenances, between College and Third avenues.

One Hundred and Forty-fifth street sewer, between Brook and St. Ann's avenues.

One Hundred and Forty-eighth street sewer, between Brook avenue and Mill brook, and between Mill brook and Courtland avenue, with branches in North Third avenue, between One Hundred and Forty-seventh and One Hundred and Forty-ninth streets, and in Willis avenue between One Hundred and Forty-eighth and One Hundred and Forty-ninth streets.

One Hundred and Forty-ninth street sewer, between Brook avenue and Mill brook, and between Mill brook and Courtland avenue, with branch in Bergen avenue, between One Hundred and Forty-eighth and One Hundred and Forty-ninth streets.

Eighty-first street paving, from First avenue to Avenue A, with granite-block pavement.

Eighty-first street paving, from the Boulevard to Riverside Drive, with trap-block pavement.

One Hundred and Eighth street paving, from Second to Third avenue, with granite-block pavement.

Ninth avenue regulating, grading, setting curb and flagging, from Eighty-first to One Hundred and Tenth street.

Fifty-third street regulating, grading, setting curb and gutter-stones and flagging, from Tenth to Eleventh avenue.

Ninety-fifth street regulating, grading, setting curb-stones and flagging, from Ninth to Tenth avenue.

One Hundredth street regulating, grading, setting curb-stones and flagging, from Fourth to Fifth avenue.

One Hundred and Thirty-eighth street regulating, grading, setting curb-stones and flagging, from Sixth to Eighth avenue.

One Hundred and Thirty-ninth street regulating, grading, setting curb and gutter stones and flagging, from North Third to Willis avenue.

Sixty-ninth street, laying crosswalks at Ninth avenue, the Boulevard and Eleventh avenue.

Railroad avenue, laying crosswalks opposite Tremont Depot of the New York and Harlem Railroad, and at the southerly intersection of East One Hundred and Seventy-sixth street.

—which were confirmed by the Board of Revision and Correction of Assessments, July 15, 1886, and entered on the same date in the Record of Titles of Assessments, kept in the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," that unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessments, interest will be collected thereon as provided in section 917 of said "New York City Consolidation Act of 1882."

Section 917 of the said act provides that, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect, and receive interest thereon at the rate of seven per centum per annum, to be calculated from the date of such entry to the date of payment."

The above assessments are payable to the Collector of Assessments and Clerk of Arrears, at the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," between the hours of 9 A. M. and 2 P. M., and all payments made thereon, on or before October 4, 1886, will be exempt from interest as above provided, and after that date will be subject to a charge of interest at the rate of seven per cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

EDWARD V. LOEW,  
Comptroller.

REAL ESTATE RECORDS.

**THE ATTENTION OF LAWYERS, REAL** Estate Owners, Monetary Institutions engaged in making loans upon real estate, and all who are interested in providing themselves with facilities for reducing the cost of examinations and searches, is invited to these Official Indices of Records, containing all recorded transfers of real estate in the City of New York from 1653 to 1857, prepared under the direction of the Commissioners of Records.

Grantors, grantees, suits in equity, insolvents' and Sheriff's sales, in 61 volumes, full bound, price..... \$100 00

The same in 25 volumes, half bound..... 50 00

Complete sets, folded, ready for binding..... 15 00

Records of judgments, 2