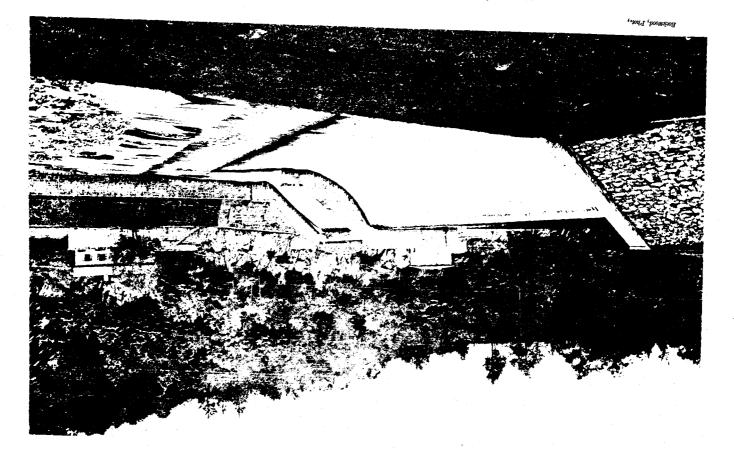


Jeb Milannut



Croton Dam and Aqueduct Gate House,

SECOND ANNUAL REPORT

OF THE

Depantment of Public Tooks

OF THE

CITY OF NEW YORK,

FOR THE

Year ending April 10, 1872.

NEW YORK:

MARTIN B. BROWN, PRINTER AND STATIONER,
NOS. 201 AND 203 WILLIAM TREET.

1872.

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REPORT.

DEPARTMENT OF PUBLIC WORKS, COMMISSIONER'S OFFICE, 237 BROADWAY, NEW YORK, April 11, 1872.

To the Hon. A. OAKEY HALL,

Mayor of the City of New York:

In accordance with your request, and in pursuance of the provisions of the Charter, the Department of Public Works submits the following as the second annual report of its operations and transactions for the year ending April 10, 1872.

Having been appointed by you to the office of Commissioner of Public Works, upon the resignation of Hon. William M. Tweed, on the 29th of December, 1871, I immediately entered upon the duties of the office; my administration of the Department, therefore, covers only about one-fourth of the period for which this report is made. As to the operations of the Department under my predecessor, I must refer chiefly to facts and statistics, as presented in the reports of the various heads of bureaus, hereto annexed.

In the latter part of the year 1871 the city was plunged into great financial difficulties, which threatened to ruin its credit and destroy the confidence of the people in its ability to redeem its obligations. On the restoration of that confidence—on the solution of the problem of economical and efficient municipal government—depended not only the financial prosperity of the metropolis, as a political community, but the material welfare of every individual member, and the faith of the world in the success of republican institutions as applied to the government of a wealthy and populous city.

To successfully solve that problem required the earnest co-operation of all the departments of the city government in the establishment of a system of judicious economy. A proper and economical administration of this Department, with its extensive powers and duties, having control of public works which require the expenditure of millions of dollars annually, was indispensable to the success of the municipal government in restoring public credit and confidence. It has been my earnest desire and endeavor to bear my share in the task of attaining that result.

To this end retrenchment in the expenses of the Department has been made wherever it could be done without impairing its efficiency. Offices which were not absolutely necessary for a proper discharge of the functions of the Department were abolished, and salaries which appeared too large, in proportion to the services rendered, were reduced. The wages of the laboring force were equalized to correspond with the rates paid by the other city Departments.

Immediately upon my entering upon the duties of office, I addressed the following letter to each of the heads of the several bureaus:

DEPARTMENT OF PUBLIC WORKS, COMMISSIONER'S OFFICE, 237 BROADWAY, NEW YORK, December 30, 1871.

SIR—You will at once report to this Department the names of all employés under your bureau, the duties and compensation of each; also the names of such whose services can be dispensed with without impairing the efficiency of the Department.

A list of all contracts now in force, with the name of the contractor, the nature of the work or supplies, the period at which such contract expires, the amount of same, and all other information appertaining thereto.

Statements showing the condition of accounts in your bureau, the work now in progress, what, if any such, work can be advantageously prosecuted, or whether it can be suspended without detriment to the public interest, together with such general

information regarding the duties and operations of the bureau as may be considered necessary.

In view of the present condition of the city finances, it is desirable that the heads of bureaus will cheerfully aid this Department in its purpose of co-operating with the other city departments, and especially the Department of Finance, in reducing the expenditures of the city government to the lowest possible limit consistent with the proper discharge of its functions.

Respectfully,

GEO. M. VAN NORT, Commissioner of Public Works.

The following is an exhibit of the amounts in which the annual expenditures of the Department were reduced in regard to salaries, wages, and cost of lighting and maintaining public lamps, under the present administration:

STATEMENT showing the Amount of Reduction in the Annual Expenditures of the Department of Public Works for Salaries, Wages, and Lighting and Maintaining Public Lamps, for the Year 1872.

	Salaries, Wages, etc., paid in 1871.	Salaries, Wages, etc., paid in 1872.	Amount of Reduction in Annual Expenditures.
Deputy Superintendent of Repairs and Supplies-abolished	\$4,000 00		\$4,000 00
3 General Inspectors, at \$2,500 each "	7,500 00	•	7,500 00
4 Rodmen, at \$1,200 each "	4,800 00	•••••	4,800 00
ro Inspectors	14,472 00		14,472 00
62 Water Policemen, at \$1,000 each	62,000 00		62,000 00
20 Clerks—average salary, \$1,853 each "	37,060 00		37,060 00
Balance of Reduction in Salaries	600 00		600 00
Laborers—average force, 2,173; wages per day, each	2 50	\$2 00	325,950 00
Teams— " 26; "	7 ∞	5 50	11,700 00
Carts— " 18; "	4 00	3 50	2,700 00
Agreement for lighting 18,301 public lamps; each lamp	51 ∞	42 50	155,558 50
" repairing public lamps; cost per week	300 00	200 00	5,200 00
" furnishing new lamps—about 1,500 annually	4 00	3 25	1,125 00
Total			\$632,665 50

By section 79, chapter 137, of the Laws of 1870, the Department of Public Works was organized into the following bureaus, viz.:

The Bureau of Water Purveyor,

The Bureau of Water Register,

The Bureau of Chief Engineer of the Croton Aqueduct,

The Bureau of Street Improvements,

The Bureau of Lamps and Gas.

The Bureau of Streets and Roads,

The Bureau of Repairs and Supplies,

The Bureau of Collector of Assessments.

By section 14, chapter 574, Laws of 1871, there was added "The Bureau of Incumbrances."

Under the provisions of section 77 of the Charter, transferring the powers of the Croton Aqueduct Department to the Department of Public Works, the "Bureau of Sewers," then existing, was retained as such.

I shall briefly review the operations of these bureaus in the order in which they are named.

BUREAU OF WATER PURVEYOR.

The duties of this bureau consist in laying water-pipes for distributing water throughout the city, and paving and repaving streets and sidewalks.

The regular distribution of water to consumers requires constant attention and frequent repairs to pipes, connections, stopcocks, etc. The water-mains supplying the lower part of the city have proved of insufficient capacity to meet the increased consumption and to supply water to all parts of the immense buildings erected for commercial and manufacturing purposes. These buildings contain stores of great value, and, in case of fire, a scarcity of water would result in great loss to property. The new thirty-six-inch main, now being laid to Chambers street, will be ready for use next fall, and will, in addition to the mains already laid, convey a sufficient quantity of water to the lower part of the city to meet all emergencies.

The system of water-mains, in the upper part of the city, is being continually extended, as that portion of the island is being improved and populated.

There were laid during the year, 4,432 feet of four-inch pipe; 33,481 feet of six-inch pipe; 19,404 feet of twelve-inch pipe; 3,557 feet of twenty-inch pipe; 3,050 feet of thirty-six-inch pipe; and 2,220 feet of forty-eight-inch pipe, making an aggregate of 66,144 feet, or more than twelve and one-half miles of pipe laid.

The work of laying street-pavements was suspended last fall from the refusal of the Finance Department to make payments upon contracts. This was the cause of the bad condition of a great

many streets at the beginning of the present year. As to repairs to street-pavements, that work was entirely suspended by the Department early in the year.

Preparations have been made for the muchneeded repairs to these pavements to the full extent which a judicious expenditure of the limited appropriation therefor will permit. After a careful examination of the subject, the Department has decided that this service has been more effectually and more economically performed by day's labor than by contract. Gangs of pavers and workingmen are being organized for the purpose of putting the streets in thorough repair; the work will commence as soon as the ground will be in proper condition.

Proposals for contracts for new pavements will be advertised when the legal authority therefor shall be complete.

The number of yards of new stone-block pavement laid, in accordance with ordinances of the Common Council was, 381,498½; wooden pavement (Nicolson and Stafford), 12,140 yards, and 119,937 square feet of bridge-stone, or street-crossings.

BUREAU OF WATER REGISTER.

This bureau has charge of the collection of water-rents, and exercises a general supervision over consumers of water; to regulate the use of

Croton water, by issuing permits, upon payment of the established rates; for tapping water-mains and connecting them with buildings; also to prevent any undue waste of water.

There is employed in this bureau a force of water policemen, whose duty it is to visit regularly all the buildings in their respective districts, especially the places where water is consumed in large quantities, such as factories, breweries, distilleries, hotels, livery stables, etc., and to report any unnecessary waste of water or other infringements of the established rules. Though, at the beginning of the present year, the number of Croton water policemen was reduced from eighty-seven to twenty-five for the whole city, the increase in the receipts from water-rents would indicate that their services are now performed with greater efficiency than formerly.

Except where water-meters are employed, the amount of water-rent charged to consumers is based upon estimates of the quantities consumed. There are at present in use upwards of two hundred water-meters of the Worthington patent, which is now substantially the same as when first patented some ten years ago. The establishment and application of means to ascertain correctly the quantities of water consumed is a subject of great importance to the city, as thereby the revenue from water-rents would be greatly

increased, and any excessive use of Croton water would readily be detected and prevented. Under the direction of my predecessor in office some forty different inventions and patents in watermeters were examined and tested. The following is a copy of the report of the Chief Engineer of the Croton Aqueduct upon the subject:

DEPARTMENT OF PUBLIC WORKS,
CHIEF ENGINEER'S OFFICE, 235 BROADWAY,
NEW YORK, December 31, 1870.

To Hon. WILLIAM M. TWEED,

Commissioner of Public Works:

SIR—I have, under your instructions, erected suitable fixtures for testing water-meters, and examined and tried forty-eight (48).

In the examination, the qualities sought for were accuracy of measurement, strength, and durability, with simplicity, cheapness of construction, and which afford but little impediment to the flow of water.

A great amount of mechanical capacity and skill has been shown in the construction of the meters presented for trial, many of them being beautiful specimens of works of art, and fulfilling most of the requirements.

The meter presented for trial by Mr. J. F. De Navarro, called the vibrating single-piston

meter, is a very compact machine, simple in its construction and easily repaired or adjusted. It takes but a small force to run it, measures the water with great accuracy, and, in my opinion, answers the requirements more nearly than any other meter presented for trial.

Respectfully yours,

EDW. H. TRACY,
Chief Engineer Croton Aqueduct.

On the 23d of August, 1871, the Department entered into contract with J. F. De Navarro for 10,000 water-meters, at \$70 each. Of this number 4,050 have been delivered, one estimate on account of the contract being in the Comptroller's office awaiting payment. On another estimate, now in this office, the approval of this Department has been withheld, in order that the legality of said contract could be ascertained and determined.

The several schedules attached to the report of the Water Register show the receipts from water-rents for the year ending April 10, 1872, to be \$1,239,233.67, an increase of \$60,798.10 over the receipts of the previous year. The receipts for penalties during the year were \$15,501.15, and for permits to tap water-pipes \$8,736.50, making an aggregate income from Croton water for the

year of \$1,263,471.32. The receipts for the first three months, under the present administration, exceeded those for the corresponding period of the previous year \$50,803.33.

THE CROTON AQUEDUCT.

The sufficiency of the water-supply, as afforded by the existing means for collecting and distributing wholesome water to a population of one million, increasing at a rapid rate, has for some time been a subject of great solicitude and anxiety to the people of New York; especially so since the seasons of severe drought, occurring in 1870 and 1871, have demonstrated the fact that, before many years, the present facilities for supplying water will be totally inadequate to the requirements of the city.

While it is gratifying to know that, by the acquisition of some additional sources, and the construction of a new storage-resevoir in the Croton valley, we are, for the present and for the immediate future, safe from the dangers of a water famine, a due regard for the future health and prosperity of the city demand that an abundant supply of pure water should be secured, beyond peradventure, for many years to come.

The increase in the population of the district from which we draw our water-supply, the expansion of the area of land under cultivation, the indiscriminate destruction of our forests, all tend to diminish the prospects of an increased supply demanded by an increasing population; while the continual rise in the value of real estate will make the acquisition of the necessary land required for additional storage-reservoirs, from year to year, more expensive.

A careful investigation of the subject has resulted in the conviction, that sufficient water can be collected in the Croton river district to supply double the present population of New York. The real difficulty is, that the quantities collected at different seasons of the year are very uneven, and that in extremely dry seasons the daily supply is less than one-third of the quantity consumed; therefore, in order to secure an abundant and uninterrupted supply of water, it is necessary to have storage capacity for a sufficient quantity to carry us safely through the most protracted season of drought which may possibly occur.

The new storage-reservoir, above referred to, will be finished in time to be filled during the wet season of next fall, and will have a capacity of three thousand million gallons. The capacity of all the reservoirs will then be four thousand six hundred and seventy million gallons, or sufficient to supply the city, at the present rate of consumption, for fifty days; add to this the minimum quantity daily furnished by the Croton river, in seasons of

severe drought, twenty-seven million gallons, and the reserve supply will last seventy-six days.

To provide against any probable emergency, the Department has the right to use the water of three or more natural lakes in the Croton valley, the Legislature having enacted a law by which the State cedes its title to those lakes to the city of New York. Their water is pure and wholesome, but will only be brought into requisition when the regular sources and reservoirs fail to supply the wants of the city.

In addition to the new storage-reservoir at Boyd's Corners, above referred to, preparations are being made for the construction of one still larger, with a capacity of three thousand seven hundred million gallons. The increase in the daily consumption of Croton water, has been so rapid, that the subject of building such additional reservoirs as the future necessities of the city, based upon careful estimates, may require, is receiving the earnest attention of this Department,

The average daily consumption of Croton water last year, was eighty-eight million gallons. It is remarkable that, while the population of New York has little more than doubled since 1848, the quantity of water used is nearly five times as large. This would indicate a general and growing waste of water by consumers. This waste is constantly occurring at many points that are entirely concealed

from view, as the waste water almost invariably passes into the sewers through the connections within the buildings where the waste occurs. The Department is making great exertions to enforce a more careful use of the Croton water, and, with the co-operation of all good citizens, in preventing waste on their premises, water could be delivered in larger quantities, and at much higher elevation in all parts of the city than it now is.

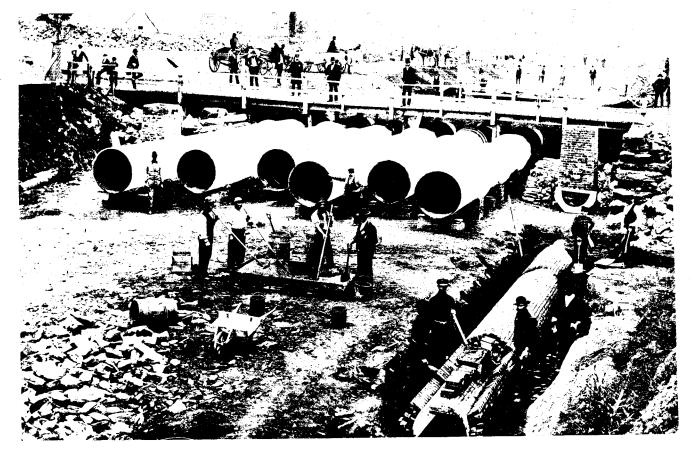
With the construction of the high-service tank and necessary connections at High Bridge, and with the laying of the additional thirty-six-inch main to the lower and commercial part of the city, which will be accomplished during the coming season, means will be provided to distribute Croton water throughout the city at any reasonable elevation.

The Croton Aqueduct was constructed at a time when Manhattan Island, north of Eighty-sixth street, was used for agricultural purposes only, and the permanent grades of streets and avenues in that part of the city had not been fully established. The Aqueduct, between Ninety-second street and One Hundred and Thirteenth street, was located with special regard to its economical construction, and without any special reference to what the future grades of the streets and avenues might be. The opening of the Central Park made it necessary to establish grades between Ninety-

second street and One Hundred and Thirteenth street, on a much lower level than the existing Croton Aqueduct would admit of, in consequence of which it now intersects that part of the city, interrupting communication from east to west.

In 1870 a law was enacted by the Legislature, directing this Department to remove that portion of the Aqueduct, and to replace it by one below the established grades of streets, or by iron pipes. This law also directs the Commissioners of the Sinking Fund to sell the ground now occupied by the Aqueduct, when the alterations shall be completed. It was decided by the Department that the supply could be more safely conveyed through iron pipes than through an acqueduct of masonry under a heavy pressure of water; and, also, that the supply would be more secure if conveyed through a number of lines of pipe than if all depended upon one line. It was, therefore, concluded to lay a sufficient number of four-feet pipes to carry to the distributing reservoirs the full quantity of water that the Aqueduct can sup-This work was resumed as early this spring as the weather would permit, and is being prosecuted with great vigor. The alterations in the Aqueduct will remove a great barrier to the development of improvements in that locality.

Further legislation is needed to authorize the Department to acquire the necessary property at



Rockwood, Phot.,

845 Broadway, N Y.

Ninety-second street, for the purpose of making the connections provided for by the law above referred to; also at One Hundred and Thirteenth street, for the purpose of constructing a gate-house, which would otherwise have to be built within the lines of the Tenth avenue, to the detriment of adjoining property.

The law makes it the duty of this Department to supply the city institutions located on the islands in the East river with Croton water.

The water for this purpose is conveyed in pipes laid on the bottom of the East river. They vary in length from 1,000 to 1,200 feet each, and are laid at a depth, under water, of from thirty to one hundred feet. Where the bottom is sandy or muddy, there has been comparatively little trouble with them, but where the bottom is rocky, and the current of the river rapid, the pipe is subject to constant vibration and abrasion; it is also liable to be caught by the anchors of vessels.

The bottom of the river between Blackwell's Island and New York is rocky, with a very rough surface. The first pipes laid to this island were gutta-percha, and worked successfully, except that the constant abrasion on the rocks wore holes in them, and that they were frequently broken by being caught by anchors.

Since 1870 this Department has, from time

to time, replaced these gutta-percha pipes with wrought-iron ones, which are proof against the abrasion, but not against the liability of being caught by anchors, though some of them have stood the test of heavy vessels fast to them for several hours before breaking.

The Department is now preparing to put down wrought-iron pipes, which are believed to be strong enough to withstand all danger from anchors.

The recent annual examination of the Croton Aqueduct, in its entire length, showed it to be in excellent condition, the whole examination and needed repairs having been made in forty-eight hours, during which time the water was shut off and the supply drawn from the distributing reservoirs. Measures were also taken to remove all existing deposits from water-mains and street-pipes, thereby increasing the capacity of the pipes and the head of water.

THE BUREAU OF STREET IMPROVEMENTS.

The work assigned to this bureau consists in regulating, grading, curbing, and guttering all public streets, and flagging sidewalks.

Owing to the topography of Manhattan Island, the work of regulating and grading streets and avenues requires great expenditure of time, labor, and money. The natural surface of the ground is so irregular, that, with few exceptions, large quantities of rock and earth must be excavated, or material filled in, to conform to the established grades in the improvement of new streets.

Circumstances sometimes require the alteration of grades, as has been the case with the Fifth and Eighth avenues. The fact that neither of these important thoroughfares, girding the Central Park, is yet available for travel in its entire length, and that, in regard to improvement, adjacent property is far behind other less valuable and less desirable localities, is due to the long delay in the final establishment of grades.

The grades established for the Eighth avenue, in the year 1852, followed the natural formation of the ground, and were in places very steep. In March, 1868, the Commissioners of the Central Park fixed new grades, which were amended by the Legislature, May 3, 1870. Under the new grades the valleys between Seventy-second and Eighty-fourth streets, and between Eighty-sixth and Ninety-second streets, are filled in to a depth of ten and fifteen feet respectively, while the high points at Eighty-fifth and Ninety-third streets are reduced twelve feet. From One Hundred and Fifth to One Hundred and Twenty-second street the descent is very gradual, requiring filling at One Hundred and Tenth street to a height of about twenty-one feet. On this avenue, 28,223 cubic yards of rock and

7,277 cubic yards of earth were excavated, and 72,990 cubic yards of material filled in during the year. There is still required 306,784 cubic yards of filling, 71,189 cubic yards of rock excavation, and 4,000 cubic yards of earth excavation.

The first grade on Fifth avenue, north of Fifty-ninth street, was established December 7, 1853. In November, 1867, the Commissioners of the Central Park altered the grade between Ninety-seventh and One Hundred and Ninth streets, raising it ten feet at Ninety-ninth street, and reducing it fifteen feet at One Hundred and First street. Ninety thousand cubic yards of filling are still required for the section between Ninety-seventh and One Hundred and Ninth streets.

On Madison avenue, between Eighty-sixth and Ninety-ninth streets, work was suspended by the contractor in consequence of the Finance Department questioning the legality of the contract. Under the contract for work on said avenue, from Ninety-ninth to One Hundred and Fifth street, nothing has been done, the ordinance therefor not having been properly advertised. The third section of this avenue, north of one Hundred and Fifth street, is rapidly progressing.

The regulating and grading of Lexington avenue, from Sixty-sixth to Ninety-seventh street, is being vigorously prosecuted.

The greater part of the street improvements

ordered by the Common Council in 1871, have not been commenced, as the ordinances therefor were not properly advertised. This Department has requested the Common Council to pass new ordinances authorizing such work.

Proceedings for the legal opening of Fifty-second, Fifty-third, and Fifty-fourth streets, from Eleventh avenue to the Hudson river, were authorized by the Department of Public Parks in the early part of the year 1870, but the opening has not yet been consummated, though of the greatest importance to property-owners in that locality.

Some idea of the magnitude of the work performed under the Bureau of Street Improvements may be had, when it is stated that, during the year, four miles of streets were regulated and graded, eight and three-fourths miles of curb and gutter were set, and eleven miles of sidewalks were flagged; 208,470 cubic yards of rock, and 65,966 cubic yards of earth were excavated, and 387,928 cubic yards of material filled in. Much more would have been accomplished, had the contractors received regular payments, enabling them to prosecute the work during the fall and winter.

New York City has four hundred and sixty miles of streets and avenues, of which three hundred and twenty-five miles are regulated and graded, and three hundred and four miles are paved.

BUREAU OF LAMPS AND GAS.

This bureau is charged with the care and maintenance of public lamps, and the supervision of the gas companies in lighting, extinguishing, and cleaning the same.

Soon after assuming control of this Department I ascertained that the following rates were paid to the several gas companies for lighting the public lamps:

Metropolitan Gas-light Co	\$52	871	per annum	for each lamp.
Manhattan Gas-light Co	53	00		"
New York Gas-light Co	45	00	"	
Harlem Gas-light Co	53	00	. "	"
Average cost	50	96	"	"

The quantity of gas consumed annually by each lamp is 11,500 cubic feet, at the rate of three feet per hour for 3,833\frac{1}{3} hours. Private consumers are charged \\$3 per 1,000 cubic feet, which would make the cost of gas for each lamp, including \\$4.50 for lighting, extinguishing, and cleaning, \\$39.

With a view to a reduction in the cost of gas to the city, the following letter was addressed to the executive officers of the several gas companies:

DEPARTMENT OF PUBLIC WORKS, COMMISSIONER'S OFFICE, 237 BROADWAY, NEW YORK, February 24, 1872.

SIR—The city is at present paying to the various gas companies, for gas furnished to the Corporation, different prices per annum for each light. The amount charged by all the companies is deemed by this Department to be unreasonable, and exceeding the amount that should be charged by any one of them.

It is the desire of this Department to cooperate with other branches of the City Government in the reduction of the expenditures of the city, as far as possible, when the same can be done without detriment to the public service; and in order that this desirable result should be attained, it is deemed necessary that the cost of lighting the public lamps should be reduced as far as practicable.

It would also seem just that this action should be taken in view of the fact that the same prices are now charged as when coal, under the war inflation, was one hundred per cent. more than at present, and other material needed for the manufacture of gas could be had only at a largelyincreased cost.

The prices charged the public are the same as paid by the private consumers, notwithstanding the

valuable franchise and privileges enjoyed by the companies in the laying of mains through the streets, for which no equivalent is given the city.

I earnestly trust your company will take these matters into serious consideration, and that you will meet me in consultation at an early day.

Trusting to hear from you,

I remain,

Yours, respectfully,

GEO. M. VAN NORT,

Commissioner of Public Works.

After a full discussion of the subject, the several companies agreed to a uniform rate of \$42.50 for each lamp, provided their claims for gas furnished the city during the year 1871, amounting to about \$866,000, were paid. The bills for last year were immediately transmitted to the Board of Audit; but, they having failed at this day to be reported for payment, the companies refuse to reduce the rates until their claims are in a fair way of settlement, thus incurring a loss to the city of \$150,000 annually.

There are now in use 18,301 street-lamps, exclusive of those under the jurisdiction of the Department of Parks.

Lamps of the old pattern, becoming worn out beyond repair, are replaced by the "Bartlett Lamp," globe pattern, which, while a little more expensive, is much more durable, ornamental, and gives better light. These lamps have been in use in the parks of this city for nearly a year, and have given great satisfaction.

On the 18th of March last this Department addressed a communication to the Honorable the Board of Aldermen (in answer to a resolution) stating that the number of lamps in front of private buildings and institutions, in addition to the regular street-lamps, was 1,348, these lamps being lighted and maintained at an annual expense to the city of \$70,584. The city ordinances allow two extra lamps in front of each church edifice, but this number has been greatly exceeded by resolutions of the Common Council, not only in favor of religious institutions, but often in cases of private individuals, associations, and clubs. all cases where the public necessity does not require the use of such lamps, they should be lighted and maintained at the expense of the owners or occupants of the premises in front of which they are placed, subject to the supervision of this Department.

BUREAU OF STREETS AND ROADS.

The Superintendent of Streets has the control and supervision of roads and unpaved streets in the upper part of the city.

The pleasure and business travel over these roads is increasing rapidly, especially since the opening of the Boulevard and Sixth avenue drives by the Department of Parks.

It is very important that the few roads traversing the north end of the island should be kept in good condition, to afford residents and visitors easy access.

Such roads as the Eighth avenue, north of One Hundred and Twenty-fifth street, which is daily thronged with vehicles of every description, require constant attention and repairs to keep them in a condition satisfactory to those who travel over it for pleasure or convenience; rollers, sprinklers, and scrapers are kept at work constantly for this purpose, and large quantities of stone and gravel are used.

Notwithstanding repairs were made during the year on seventeen different streets, roads, and avenues, including the Eighth and Tenth avenues, Kingsbridge road, and Fort Washington road, a great deal remains to be done to put them in proper condition, and this Department is preparing to make extensive repairs during the coming season.

THE BUREAU OF REPAIRS AND SUPPLIES.

This bureau is charged with the care of all public buildings, and the business of procuring and distributing supplies, such as fuel, stationery, office

furniture, etc., to the several municipal bureaus and offices; also to Civil and Police Courts.

The report of the Superintendent of this bureau gives a detailed account of the expenditures made under the several appropriations for the construction, repairs, and care of public buildings, and supplies to municipal offices.

Some most necessary repairs were made to the several market buildings; but, as the subject of selling or leasing the market property to the occupants has been agitated for some time, it was considered inexpedient to incur any large expenditure for repairs. The facilities afforded by these buildings, in their present condition, are totally inadequate to the business transacted; they do not furnish sufficient accommodation to either venders or purchasers. Several of them are so dilapidated that their removal would be a public benefit.

The office of Deputy Superintendent of Repairs and Supplies, to whom was intrusted the duty of purchasing, not only supplies coming under this bureau properly, but every kind of material required for the extensive works carried on by this Department, has been abolished, and the duties are now performed by the Contract Clerk.

It is confidently expected that large sums will be saved to the city in this important branch of the public business, as all purchases are required to be made at the lowest prices that can be obtained, without the employment of agents or middlemen, and the payment of large commissions to them.

The Bureau of Collection of Assessments has charge of the collection of all assessments for opening, widening, extending, and improving public streets and places, the building of sewers, and the filling of sunken lots.

When assessment lists have been prepared by the Board of Assessors and approved by the Supreme Court, they are transmitted to this bureau for collection. On assessments remaining unpaid sixty days after the list is received, interest is charged at the rate of seven per cent. per annum. Assessments remaining unpaid at the expiration of one year from the receipt of the assessment list, pass into arrears and are transmitted to the Clerk of Arrears for collection. Owing to the increasing activity in public improvements and the enhanced value of real estate, the business of this bureau is constantly growing larger.

From the accompanying report of the Collector of Assessments, it will be seen that the amount of assessments remaining uncollected at the beginning of the fiscal year, together with the assessments received for collection during the year, was \$8,268,563.17, of which there was collected and paid into the city treasury \$1,675,655.38; \$2,390,900.45 were returned in arrears; assessments for \$670,333.71

were vacated or reduced by order of the Supreme Court, and \$2,809,238 representing the assessments for the opening of the Riverside Park, were recalled, the proceedings in this case having been reopened by order of the Supreme Court.

Under section 32 of the Charter, the late Commissioner of Public Works fixed the compensation of Collector and Deputy Collector of Assessments at the following rates:

For collections received and paid into the city treasury	2½ pe	r cent.
For assessments transmitted to the Comptroller for collection by the		
Clerk of Arrears	2	"
For assessments vacated by order of the Supreme Court	2	"

This Department has now under consideration the subject of reducing the above rates, and abolishing fees on assessments charged against the city, or to the taxpayers at large.

BUREAU OF INCUMBRANCES.

Section 14, chapter 574, Laws of 1871, creating this bureau, imposes upon it the duty of receiving all complaints relative to and of removing all incumbrances.

Various laws and ordinances are in existence, imposing penalties for unlawfully obstructing streets and sidewalks, and giving power to the Mayor and the Street Commissioner (Commissioner of Public Works) to issue permits for certain obstructions,

such as projecting stoops, areas, awnings, posts, signs, etc., under proper restrictions. To the Superintendent of Incumbrances has been delegated the ministerial portion of all the powers and duties devolved upon this Department with respect to all classes of obstructions and incumbrances.

From his report, which is appended, it will be seen that, with a greatly reduced number of assistants, and a consequent reduction of expenditure, the activity and efficiency of the bureau have been considerably increased.

BUREAU OF SEWERS.

The construction and maintenance of a perfect system of sewerage is of the utmost importance to the health and comfort of our population; it also requires great care, experience, and foresight in its establishment and management. Fortunately our city is so situated, and its topographical features are such, as to present no serious obstacle to a complete drainage of moisture and sewage into the surrounding streams.

The construction of sewers of sufficient capacity, however, involves great expenditure, as these often have to be built at great depth in solid rock. Many of the old sewers become unserviceable from defects in construction, owing to improper inspection or decay of materials, and from

changes in the grades of streets through which they run or with which they are connected.

Under a law passed by the Legislature, April 12, 1865, directing the Commissioners of the Croton Aqueduct to prepare and establish a general sewerage system for the entire city, nothing was done until sewerage plans for the Sixth and Seventh avenues were prepared and filed by this Department, under its present administration, on February 29th last.

At the beginning of the present year the contract for removing dirt from sewers, at a fixed price per cart-load, was abrogated, and this service is now performed by day's work at greatly reduced cost.

There are at present in New York City 288 miles and 119 feet of sewers, of which 366,129 feet were built prior to the organization of the Croton Water Department in 1849; 1,010,909 feet were built under the Croton Water Department up to the year 1870, and 143,721 feet were since added under the direction of this Department. Twelve and one-sixth miles of sewer, 5,151 feet of underground drains, and 184 receiving-basins were built during the year ending this day. The total number of receiving-basins is 3,787.

The low ground east of Fifth avenue, between Seventy-second street and Eightieth street, has been effectually drained by the laying of drain-pipes. For further details in regard to this work reference is made to the report of the Engineer in charge of Sewers, hereto annexed.

CONTRACTS.

The report of the Contract Clerk gives a list of sixty-eight contracts made during the year, the estimated aggregate amount of which is \$4,060,837.40. Of this amount \$1,014,429.90 is for regulating and grading, paving, sewering, and otherwise improving streets and avenues under the provisions of chapter 308, Laws of 1861; and \$3,046,407.50 under special laws providing for the laying of Croton water-pipes, the purchasing of water-meters, and the regulating and grading of certain streets and avenues. Contracts under special laws amounting to \$2,272,883.00 were awarded without competition.

It is the opinion of this Department that the public interest would be advanced if greater power and discretion were allowed to the Commissioner of Public Works in the matter of awarding contracts.

Under existing laws providing for the improvement of streets and avenues, and for other public works, contracts must be awarded to the lowest bidder, whoever he may be, provided he can furnish bonds for the proper performance of his contract. It is a notorious fact, that it is no

difficult matter for individuals to obtain sureties any amount and for any purpose. This may accounted for by the circumstance that but very few suits are instituted on behalf of the public against sureties which result in the recovery of the amount claimed. The awarding of contracts to parties who have neither knowledge, experience, or means to carry out, within a specified time and in a proper manner, the work required, which, present system, cannot under the always be avoided, not only leads the city into endless and useless litigation, but frequently results in great loss to property-owners and taxpayers by enhancing the cost of the work, and by retarding or preventing necessary improvements. When a contractor fails to do the stipulated work in the proper time, he may abandon his contract, when it will have to be re-let, generally at an vanced price, or re-advertised at great expense and loss of time; or, as is very often the case, he will apply for and obtain relief from the Common Council by an extension of time or other modification of the contract. An instance of this kind exists in the contract for regulating and grading Fifth avenue.

In consequence of the Department of Finance declining payment upon a number of contracts, on account of alleged irregularities in the contracts, or rather in the ordinances in pursuance of which they were made, work was generally suspended by the contractors last fall, throwing a large number of working-men out of employment at a season when they were most in need of their daily earnings, and interrupting the prosecution of necessary improvements.

PUBLIC BATHS.

The two free floating baths were open for the accommodation of bathers from June 21st to September 30th of last year. They were used to their full capacity by that class of our population who are most in need of thorough periodical ablution—by people who have neither the opportunity to bathe at home nor the means to pay for the use of private bathing institutions.

The aggregate number of bathers during the season of 1871 was 868,475, of whom about one-fourth were females.

With a view to the comfort and good deportment of visitors, the following regulations for the use of the baths have been established:

The Baths will be opened daily from June 1st to September 30th, as follows:

For males, on Tuesdays, Thursdays, and Saturdays, from 5 A. M. till 9 P. M., and on Sundays, from 5 A. M. till 12 M.

For females, on Mondays, Wednesdays, and Fridays, from 5 A. M. till 9 P. M.

- I. No person will be admitted without a ticket, and, if required, must give his or her name and address. Tickets shall be free, but they will be refused for sanitary or police reasons, according to circumstances.
- II. Women and girls will be required to furnish suitable bathing dresses.
- III. Bathers of either sex desiring towels, may obtain them of the Keeper by depositing twenty-five cents. Upon the return of the towel twenty-two cents will be returned.
- IV. Throwing towels in the water, or at another person, is prohibited, under penalty of payment for the same, or expulsion from the bath.
- V. No person shall push another into the water, or spatter water at him against his wish.
- VI. No swearing, profanity, or noisy language will be permitted.
- VII. Any person detected in defacing the premises will be arrested.
- VIII. All persons must retire as soon as dressed.
- IX. Each person shall be charged in name with the number of his dressingroom key, and a strict return of the same will be required within thirty minutes from the time it is taken.
- X. No persons, as spectators, will be allowed to stand upon the platforms or about the houses.
- XI. No person will be allowed to remain in the water more than twenty minutes; and the Keeper shall, in cases of great demand for baths, shorten the time of boys to accommodate other persons.
- XII. Bathers shall not stand about the platforms, nor occupy dressing-rooms after dressing.
- XIII. No dogs will be allowed in the houses.
- XIV. Money, clothes, and property left in the house or rooms, will be at the risk of the owner.
- XV. All questions of priority of bathing, use of rooms, or obedience to rules, shall be finally decided by the Keeper.
- XVI. A policeman will be in attendance to aid to enforce order, subject to the wish of the Keeper.

Preparations have been made to put the baths in thorough repair for the coming season.

APPROPRIATIONS AND EXPENDITURES.

The first part of Appendix "A," accompanying this report, shows the financial condition of this Department, with regard to appropriations set apart for its use from the annual tax-levy, and of which the following is a resumé:

For the period commencing April 11, 1871, and ending December 31, 1871:

Balances, April 11, 1871, \$313,950 75 Appropriations,	8 7 7
Expenditures,	Balances, April 11, 1871, \$313,950 75
Expenditures,	Appropriations, 1,382,436 99
tions prior to April 11, 1871, 606,275 91 Amounts paid by Comptroller without requisitions from this Department,	
Amounts paid by Comptroller without requisitions from this Department,	Amounts drawn on above appropria-
out requisitions from this Department,	tions prior to April 11, 1871, 606,275 91
Amount of requisitions not paid,	Amounts paid by Comptroller with-
Amount of requisitions not paid, 7,633 19 Amounts received for sewer permits, 24,927 00 Balances available December 31, 1871, 199,646 74 For the period commencing January 1, 1872, and ending April 10, 1872: Balance, January 1, 1872, \$199,646 74 Appropriations for first four months of 1872, 604,666 67 Expenditures to April 10, 1872,	out requisitions from this Depart-
Amounts received for sewer permits, 24,927 00 Balances available December 31, 1871, 199,646 74 For the period commencing January 1, 1872, and ending April 10, 1872: Balance, January 1, 1872, \$199,646 74 Appropriations for first four months of 1872, 604,666 67 Expenditures to April 10, 1872, 105,314 51	• ment, 51,822 18
Balances available December 31, 1871, 199,646 74 For the period commencing January 1, 1872, and ending April 10, 1872: Balance, January 1, 1872, \$199,646 74 Appropriations for first four months of 1872, 604,666 67 Expenditures to April 10, 1872, 105,314 51	Amount of requisitions not paid, 7,633 19
For the period commencing January 1, 1872, and ending April 10, 1872: Balance, January 1, 1872, \$199,646 74 Appropriations for first four months of 1872, 604,666 67 Expenditures to April 10, 1872, 105,314 51	Amounts received for sewer permits, 24,927 00
and ending April 10, 1872: Balance, January 1, 1872, \$199,646 74 Appropriations for first four months of 1872, 604,666 67 Expenditures to April 10, 1872, 105,314 51	Balances available December 31, 1871, 199,646 74
Appropriations for first four months of 1872, 604,666 67 Expenditures to April 10, 1872, 105,314 51	
of 1872, 604,666 67 Expenditures to April 10, 1872, 105,314 51	Balance, January 1, 1872, \$199,646 74
Expenditures to April 10, 1872, 105,314 51	Appropriations for first four months
· · · · · · · · · · · · · · · · · · ·	of 1872, 604,666 67
Balances, April 11, 1872, 703,248 90	Expenditures to April 10, 1872, 105,314 51
	Balances, April 11, 1872, 703,248 90

The expenditures from April 11 to December 31, 1871, were at the rate of \$1,281,224 per annum.

The expenditures from January 1 to April 10, 1872, are at the rate of \$379,130.40 per annum. This period covers the severest portion of the winter season, when out-door work had to be partially suspended. The expenditures for the balance of the year 1872 will therefore be at a much larger rate, but will always be kept within the limit of the appropriations, as it is the intention of the Department to carry on its operations with the greatest practicable economy.

The second part of Appendix "A" shows the condition of the Trust and Special Funds, created by statutes providing for Aqueduct and Street Improvements and other public works.

The balances available on the 11th of April, 1871, were \$5,770,371.70, exclusive of Street Improvement Fund, which is provided for under general laws.

The expenditures on all these accounts from April 11 to December 31, 1871, were \$5,391,413.53, and from January 1 to April 10, 1872, \$542,021.13.

The unexpended balances on definite and limited accounts at this day are \$3,099,292.95.

The first apportionment for 1871 was made by the Board of Apportionment, consisting of the Mayor, the Comptroller, the Commissioner of Public Works, and the President of the Department of Parks, on the 30th of May, 1871. Subsequently, on the 13th of September, the same body made another apportionment, reducing most of the appropriations to a great extent, and the consequence was, that this Department, having worked during the summer months upon the appropriations made on the 30th of May, had already in some cases exceeded the amounts set apart for its use on the 13th of September.

The appropriations for the first four months of 1872 are at a still lower rate than those made September 13, 1871.

Appendix "B" contains a list of all requisitions drawn by this Department upon the Department of Finance, stating the amount of such requisitions, the accounts upon which they were drawn, and the nature of the work, services, or materials furnished.

GENERAL WORKS.

The unsettled condition of the finances of the city and the severity of the winter months precluded the possibility of undertaking and prosecuting much necessary work since my accession to office. But the Department is prepared, so soon as these obstacles shall be overcome, to put forth every effort to meet the popular demand for improvements in streets, avenues, sewerage, water service, and other public works, and to keep these works in good and serviceable condition, so far as an economical expenditure of the reduced appropriations will permit.

EMPLOYÉS.

One of the greatest responsibilities of this office consists in the selection and appointment of its many employés, from the day laborers to head of a bureau, entrusted with important and responsible duties. It is indispensable to the efficiency of this Department, that its subordinates be intelligent and faithful to the public interest. The opinion generally prevails, that public officials and employés are not as faithful and diligent in the performance of their duties, as persons employed in a similar capacity by private individuals or companies. This is, no doubt, true to a great extent, and may be ascribed principally to the fact that their positions too often depend entirely on personal or political favor. To engender a spirit of emulation, and a desire to serve the city to the best of their ability, I have given the employés of this Department to understand, that their employment and tenure of office is not a question of political expediency, but, in the first place, of the public necessity for their services, and, secondly,

of their qualifications for their respective positions and the manner in which they discharge their duties.

Orders were issued to the heads of bureaus, directing them to enforce the regular attendance of their clerks and attachés during office hours, from 9 A. M. to 4 P. M.

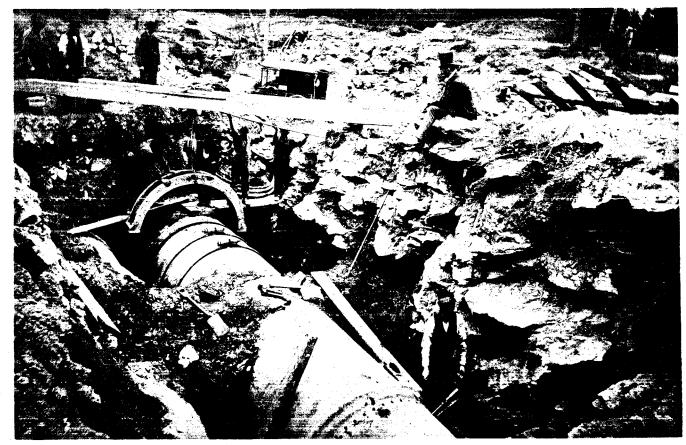
The heads of bureaus are also made responsible for the faithful performance of official duties by their subordinates.

It affords me much pleasure to acknowledge the fidelity and zeal which have characterized the labors, not only of the heads of bureaus, but of all the attachés of this Department, who have at all times evinced a commendable desire to promote the interests of the Department.

Respectfully submitted,

GEO. M. VAN NORT.

Commissioner of Public Works.



Rockwood, Phot.,

845 Broadway, N. Y.

Repairs to 72-inch Water Mains.

REPORT

OF THE

WATER PURVEYOR.

REPORT OF THE WATER PURVEYOR.

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF WATER PURVEYOR,
NEW YORK, April 10, 1872.

George M. Van Nort, Esq.,

Commissioner of Public Works,

New York City:

SIR—I have the honor to submit the following account of work done under charge of Water Purveyor, which is taken from the records of the Bureau of Water Purveyor, from April 10, 1871, to April 10, 1872.

CROTON PIPES.

From the annexed schedule of water-pipes laid, it appears there was a slight increase of work done as compared with the previous year. These pipes were all laid in the year 1871. The weather, thus far this year, has proved very unfavorable for out-door work, and the only work commenced under my charge is the laying of thirty-six-inch mains on Madison avenue, etc., for a better supply of water to the inhabitants of

the lower part of the city. The severe cold weather has greatly interfered with the prosecution of this work, but, at the date of this report, the temperature having moderated considerably, the work is going on quite rapidly.

There have been no serious leaks or breaks in the water-pipes since the last report. The companies assigned for repairs have been kept busy throughout the year attending to the numerous reports received of leaking pipes, stop-cocks, etc., and in setting new fire hydrants and repairing those that may have been broken.

PAVEMENTS.

The following table of stone-block pavements, laid in the year 1871, shows a slight falling off from the amount laid in 1870. This can be accounted for from the fact that in the height of the season of 1871, the Courts decided that the assessments for this work could not be collected, owing to an irregularity in the ordinances passed by the Common Council, and a list of paving work advertised for letting, and for which bids were received, was obliged to be withdrawn in consequence of this legal difficulty. Among this list was the paving of South Fifth avenue.

The only contracts for stone-block pavements remaining unfilled, at the date of this report, are:

For paving Second avenue, from Eighty-sixth to One Hundred and Twenty-fifth street, and Twentyfourth street, from Sixth to Tenth avenue.

There were no contracts made in 1871 for the laying of wood pavements; those laid last year were under contracts made in 1870, and amount in the aggregate to only twelve thousand one hundred and forty yards. There are no contracts for wooden pavements remaining unfilled.

Respectfully submitted,

JOHN V. GRIDLEY,

Water Purveyor.

LOCALITIES OF NEW LINES OF WATER-MAINS LAID IN 1871.

FOUR-INCH PIPES.	Feet.
Broadway, from One Hundred and Forty-fourth to One Hundred and Forty-first street.	863
Boulevard, west side, from One Hundred and Forty-first to One Hundred and	
Fortieth street	283
Department of Docks Yard, between Sixteenth and Seventeenth streets.	240
Forty-second street, south side, between First and Second avenues	587
Madison square, from Twenty-third to Twenty-sixth street,	778
Madison avenue, from west to east side, between Forty-fifth and Forty-sixth	
streets	48
Madison avenue, from west to east side, between Forty-sixth and Forty-	
seventh streets	48
One Hundred and Forty-first street, between Broadway and Boulevard	600
One Hundred and Fortieth street, from Boulevard, west	431
Twelfth avenue, between One Hundred and Fifty-fifth and One Hundred and	
Fifty-eighth streets	554
Total length of four-inch pipes laid in 1871	4,432

SIX-INCH PIPES.	Feet.
Eighty-ninth street, between Avenues A and B	144
Eighty-seventh street, between Avenues A and B	723
Eighth avenue, between One Hundred and Thirty-fourth and One Hundred	
and Forty-third streets	2,339
Eighty-second street, between Fourth and Fifth avenues	936
Forty-sixth street, from Madison avenue, west	20
Forty-seventh street, from Madison avenue, east	. 90
Forty-first street, between Eleventh avenue and Hudson River	590
Fifty-fifth street, between Ninth and Tenth avenues	920
Fifty-sixth street, between Avenue A and First avenue	300
Fifty-eighth street, between Eighth and Ninth avenues	564
Forty-seventh street, between Third and Fourth avenues	948
Fifty-ninth street, from Madison to Fifth avenues	456
Fifty-fifth street, from Broadway to Seventh avenue	324
Fifty-first street, between Sixth and Seventh avenues	192
Fifty-eighth street, from Fourth to Fifth avenue	948
Forty-fourth street, between Second and Third avenues	336
Forty-first street, between First and Second avenues	60
Fifty-ninth street, between Madison and Fourth avenues	641
Fifty-eighth street, between Ninth and Tenth avenues	780
Fifty-sixth street, between Tenth and Eleventh avenues	3 2 4
Lexington avenue, from south side to north side of Sixty-sixth street	57
Lexington avenue, between Sixty-fourth and Sixty-sixth street s	504
Ninety-first street, from Second avenue, west	41
Ninety-second street, from Second avenue, west	41
Ninety-third street, from Second avenue, west	41
Ninety-seventh street, from Second avenue, west	, 4 I
One Hundred and Eleventh street, between Fourth and Fifth avenues	475
One Hundred and Twelfth street, between Fourth and Fifth avenues	382
One Hundred and Thirteenth street, between Fourth and Fifth avenues	332
One Hundred and Eleventh street, between Second and Third avenues	750
One Hundred and Tenth street, between First and Second avenues	678

	Feet.
One Hundred and Ninth street, between First and Second avenues	126
One Hundred and Thirty-second street, between Fourth and Fifth avenues.	240
One Hundred and Fifteenth street, between Second and Third avenues	732
One Hundred and Thirty-third street, between Fourth and Fifth avenues	180
One Hundred and Sixth street, between Second avenue and Harlem river	1,440
One Hundred and Twenty-third street, between First and Second avenues	742
One Hundred and Third street, from Second avenue, west	. 41
One Hundred and Fifth street, from Second avenue, west	41
One Hundred and Sixty-first street, between Tenth and Eleventh avenues	396
Seventy-seventh street, between First and Second avenues	740
Sixty-fourth street, between Lexington and Fourth avenues	540
Sixty-first street, between Fourth and Madison avenues	590
Seventy-second street, between Second and Third avenues	696
Sixty-ninth street, between Third and Fourth avenues	940
Sixty-third street, between Second and Third avenues	580
Sixty-second street, between Avenue A and First avenue	713
Sixty-third street, between Lexington and Fourth avenues	456
Sixty-sixth street, between Avenue A and Second avenue	1,020
Seventy-fourth street, between Third and Fourth avenues	1,020
Sixty-fourth street, from Lexington avenue east of Third avenue	708
Sixty-fourth street, between First and Second avenues	696
Sixty-fourth street, between Second and Third avenues	504
Sixty-fourth street, between Fourth and Fifth avenues	1,080
Seventy-second street, between Madison and Fifth avenues	360
Sixty-second street, between Boulevard and Fifth avenue	276
Sixty-eighth street, between Tenth avenue and Boulevard	305
Sixty-third street, between Fourth and Fifth avenues	1,031
Seventy-eighth street, between Madison and Fifth avenues	456
Thirty-ninth street, between Tenth and Eleventh avenues	295
Thirty-seventh street, between Lexington and Third avenues	372
Twenty-ninth street, between First avenue and Avenue A	288
Thirty-fifth street, between Eleventh and Twelfth avenues	900
Total length of six-inch pipes laid in 1871	22 481
Total length of six-men pipes tald in to/1	337474

TWELVE-INCH PIPES.	Feet.
Avenue A, between Eighty-fifth and Eighty-sixth streets	312
Avenue A, between Eighty-sixth and Eighty-seventh streets	274
Avenue A, between Eighty-seventh and Eighty-ninth streets	540
Eleventh avenue, between Fifty-ninth and Sixtieth streets	215
Forty-second street, across Madison avenue	80
Fifty-sixth street, from Madison to Fifth avenue	468
Fourth avenue, east side, between Fifty-fifth and Fifty-sixth streets	252
Fourth avenue, west side, between One Hundred and Tenth and One Hun-	
dred and Thirteenth streets	792
First avenue, between Fifty-seventh and Fifty-eighth streets	284
Fifth avenue, from Fifty-ninth to Sixty-fifth street	1,584
Fifth avenue, between Fifty-eighth and Fifty-ninth streets	240
First avenue, between One Hundred and Ninth and One Hundred and Tenth	
streets	276
Fifth avenue, between One Hundred and Thirty-third and One Hundred and	
Thirty-fifth streets	228
Fourth avenue, between One Hundred and Thirty-first and One Hundred and	
Thirty-third streets	420
Fourth avenue, west side, between Eighty-second and Eighty-third streets	274
Fifty-sixth street, between Second and Third avenues	552
Lexington avenue, between Seventieth and Seventy-first streets	275
Madison avenue, between Fifty-second and Fifty-third streets	260
Sixty-sixth street, between Lexington and Fifth avenues	1,500
Seventy-fifth street, between Second and Third avenues	720
South Fifth avenue, from Fourth to Canal street	3,636
Second avenue, between Eighty-sixth and One Hundred and Ninth streets	5,860
Tenth avenue, between Fifty-third and Fifty-seventh streets	362
	
Total length of twelve-inch pipes laid in 1871	19,404

TWENTY-INCH PIPES.

	Feet.
Fifty-seventh street, between Ninth and Tenth avenues	936
Fifteenth street, from Third to Fourth avenue, across Union square and	
through University place to Tenth street	2,621
Total length of twenty-inch pipes laid in 1871	3,557
THIRTY-SIX-INCH PIPES.	
	Feet.
Madison avenue, from Forty-second street, south	3,050
FORTY-EIGHT-INCH PIPES.	
	Feet.
Forty-ninth street, between Fourth and Madison avenues	400
Madison avenue, from Forty-ninth to Forty-second street	1,820
Total length of forty-eight-inch pipes laid in 1871	2,220
Total longitu or roxy organ mon pripos and an experience	-,
RECAPITULATION.	
Four-inch pipes	Feet. 4,432
Six-inch pipes.	
	33,481
Twelve-inch pipes	19,404
Twenty-inch pipes.	3,557
Thirty-six-inch pipes.	3,050
Forty-eight-inch pipes	2,220
Total lineal feet pipe laid 1871	66,144
	=====

STONE BLOCK PAVEMENTS

Laid in accordance with Ordinances of the Common Council during the Year 1871.

LOCALITIES. CONTRACTORS. Property 1	Square Feet, Old Bridge,
first streets. Henry Deghnee. 11,899 3,000 Second avenue, between Eighty-sixth and One Hundred and Twenty-fifth streets. Thomas Gearty. 35,070 It4,448 \(^16_2\) Thomas Gearty. 9,808 3,421 Thomas Gearty. 9,808 3,421 Avenue C, between Houston and Eighteenth streets. Thomas G. Hicks. 14,146 6,942 Eighth street, from Broadway to Fourth avenue C.	
first streets. Second avenue, between Eighty-sixth and One Hundred and Twenty-fifth streets. Ninth avenue, between Fourteenth and Twenty- third streets. Leleventh avenue, between Thirty-third and Thirty-fourth streets. Avenue C, between Houston and Eighteenth streets. Thomas Gearty. 9,808 3,421 Thomas Gearty. 9,808 3,421 Thomas Gearty. 161 Thomas G. Hicks. 14,146 6,942	
Hundred and Twenty-fifth streets. Ninth avenue, between Fourteenth and Twenty-third streets. Eleventh avenue, between Thirty-third and Thirty-fourth streets. Avenue C, between Houston and Eighteenth streets. Lighth street, from Broadway to Fourth avenue C, between Houston and Eighteenth streets. Thomas Gearty. 9,808 33,421 Thomas Gearty. 974 161 Thomas G. Hicks. 14,146 6,942	••••
third streets	
Thirty-fourth streets	
streets	
Thirteenth street, from First avenue to East river F. C. Crowley 9,222 1,326	
Sixteenth street, from Avenue C to First avenue. F. C. Crowley 7,073 1,370	
Nineteenth street, between Sixth and Tenth avenues	
Twenty-second street, between Broadway and Fourth avenue. James Everard. 2,405	
Twenty-sixth street, from Third avenue to East	318
Thirtieth street, from First avenue to East	320
river	
nue	
river	95
East river	• • • • •
nue	19
nue	ļ
avenue F. C. Crowley 1,116 168	
Thirty-eighth street, from Lexington avenue to East river	
Thirty-ninth street, from Madison to Fifth avenue	
Fortieth street, between Madison and Third avenues Denis McGrath 4,327	168
Forty-second street, between Tenth avenue and Hudson river F. C. Crowley 11,368 1,728	
Forty-fifth street, from Second avenue to East river James Gearty 3,440	
Forty-fifth street, from Madison to Fourth avenue William Baird	ĺ
Forty-sixth street, from Ninth avenue to Hud-	60
Forty-sixth street, from Second avenue to East	~
river	
Fifty-first street, from Broadway to Eighth avenue	
Fifty-second street, between Eighth and Ninth avenues. James Everard. 2,684 201	13:
Fifty-second street, between Ninth and Eleventh avenues	\
Fifty-fourth street, between Eighth and Ninth avenues	

STONE BLOCK PAVEMENTS—Continued.

LOCALITIES.	Contractors.	Square Yards, Pavement.	Square Feet, New Bridge.	Square Feet, Old Bridge.
Fifty-fifth street, between Eighth avenue and Hudson river	James Gearty	5,457	554	112
avenues	Mich. J. Greene	2,204	166	
Hudson river	P. F. Maginn	5,008	968	
Seventy-fourth street, between Third avenue and Avenue A	John B. Devlin	7,052	2,456	
nue	J. Warren and Paul Murphy	2,087	<u>5</u> 6	112
river	William Everard	21,674	6,196	68
Fourth avenue to Harlem river One Hundred and Nineteenth street, from	Peter M. Broderick	278		381
Third avenue to Avenue A	Christopher Keyes	6,741		
way Bayard street, between Bowery and Baxter	James Everard	3,000	2,900	
street	James Everard	2,707	1,495	
streetBroome street, from Broadway to Hudson	James Gearty	2,573	765	
street	John B. Devlin	7,960	2,746	
river	James Everard	12,634	8,000	
Broome street, from Bowery to Norfolk street	Brown & Mogk	5,21014	3,159	
Corlears street, from South to Water street Dominick street, from Clark to Hudson street.	Matthew Baird William H. Keyes	1,428 2,523	538 176 6	
Delancey street, from Bowery to East river Eldridge street, from Division to Houston	Thomas G. Hicks	12,976	9,167	339
street	James Gearty	8,676	937	716
street	G. W. Fuller	6,613	957	25
street	W. A. Cumming	5,624	2,392	
street	L. W. Johnson	9,242	2,276	• • • •
street	Matthew Baird	683	329 6	
Hudson street, from Chambers to Canal street	James F. Keyes	11,577	6,999	
Hubert street, from Hudson to West street	W. A. Cumming	2,785 5,698	1,130	• • • • • • • • • • • • • • • • • • • •
Ludlow street, from Canal to Stanton street MacDougal street, from Spring to Eighth	John B. Devlin			
street	Christopher Keyes	8,435	3,367	
street	Matthew Baird	1,080	95	
Reade street, from Washington to West street South street, from Montgomery to Corlears	Brown & Mogk Matthew Baird	1,793 1,003	939 <u>1</u> 2 3 7 0	
street	Matthew Baird	11,493	3,235	
Varick street, from Franklin to Carmine street	L. W. Johnson	10,690	5,τ34	
Vandam street, between MacDougal and	T W Johnson	4 655	FO5	
Greenwich streets	L. W. Johnson W. A. Cumming	4,933	581 1 2	
Watts street, from Canal to West street Willett street, from Grand to Rivington street	James Everard	2,340 2,941	1,431 266	
Trinet speet, non Grand to Krington Street.	J			
Total Stone Block Pavements laid in 1871		381,4981/4	114,218	2,544

WOODEN PAVEMENTS

Laid in accordance with Ordinances of the Common Council during the Year 1871.

LOCALITIES.	Contractors,	Square Yards, Pavement.	Square Feet, New Bridge.	Square Feet, Old Bridge.
NICOLSON PAVEMENT.		ı		
Ninth street, from Second to Third avenue	Charles G. Waterbury, President	2,236	776	
Stuyvesant street, from Second to Third avenue	Charles G. Waterbury, President	1,740	799	
Total Nicolson Pavements laid in 1871		3,976	1,575	
STAFFORD PAVEMENT.				
Fifty-eighth street, between Sixth and Ninth avenues	Joseph A. Monheimer.	8, 164	1,600	
Total Wooden Pavements laid in 1871		12,140	3,175	

RECAPITULATION.

	Square Yards, Pavement.	Square Feet, New Bridge.	Square Feet, Old Bridge.
Stone Block Pavements laid in 1871	381,498 <u>%</u> 12,140	114,218 1 2 3,175	2,544
Total all kinds of Pavements laid in 1871	393,6381⁄4	117,3931 ¹ 2	2,544

REPORT

OF THE

WATER REGISTER.

REPORT OF THE WATER REGISTER.

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF THE WATER REGISTER,
NEW YORK, April 11, 1872.

Hon. GEORGE M. VAN NORT,

Commissioner:

SIR—In compliance with your instructions, I have the honor to state that I assumed the duties of my office on the 20th day of February last, and found the affairs of the bureau in a correct and creditable condition.

From the records of the bureau I submit the following statistics for the year ending April 10, 1872.

It is gratifying to be enabled to state that the receipts for water-rents exceeded those of the preceding year \$60,798.10.

The following Schedules will give a succinct statement of the transactions of the bureau:

Schedule No. 1

Shows the weekly receipts for water-rents from all sources.

Schedule No. 2

Shows the weekly receipts for penalties on unpaid water-rents.

SCHEDULE No. 3

Shows the weekly receipts for taps inserted in the water-mains.

SCHEDULE No. 4

Shows the expenditures of this bureau, exclusive of the salaries of the permanent officers and clerks.

Schedule No. 5

Shows the total receipts for water-rents, and penalties thereon, since its introduction in 1842.

I would respectfully suggest that you issue an order, by authority conferred upon you by chapter 383, section 27, of the Laws of 1849, to wit:

"The rules and restrictions for the use of the water, printed on each permit, shall be notice to the water-takers, and shall authorize the exaction and recovery of any penalties which the Department of Public Works may impose, in addition to the cutting off the use of the water, for any violation of the rules, and this section shall be printed on such permits;"

Making a penalty of from one to ten dollars, at the discretion of the Water Register, for any violation of the rules of the Department for the waste of water.

Also, that all applications for tapping waterpipes should be made one day previous to the granting of the application (except in cases of accident, of a tap breaking, or being drawn from the main), to enable the clerks to examine the books to ascertain whether the premises applied for have been already tapped, and whether the same are on the books of this bureau subject to the annual water-rent.

Respectfully submitted,

H. N. SHERWOOD, Water Register.

SCHEDULE No. 1,

Showing the Weekly Receipts for Water-rents.

April	12	\$1,242 05
. "	19	2,667 55
"	26	1,920 00
May	3	15,200 14
"	10	24,546 00
. 44	17	26,851 55
"	24	20,896 20
"	31	26,435 29

June	7	\$ 34,478	27
"	14	36,064	39
"	21	40,056	85
"	28	32,729	95
July	5	32,817	39
"	12	65,203	17
"	19	93,207	72
- 46	26	131,499	06
August	2	196,677	46
"	9	18,680	39
"	16	11,372	47
"	23	9,992	87
4.6	30	10,246	55
Septemb	er 6	10, 163	18
"	13	8,988	53
"	20	9,801	90
. "	27	16,272	96
October	4	19,823	41
"	п	15,141	88
"	18	17,492	70
44	25	20,848	23
Novembe	er I	35,632	60
44	8	8,548	50
"	15	8,997	20
"	22,	12,938	07
"	29	16,159	60
Decembe	er 6	10,328	40
"	13	9,267	09
44	20	9,354	52
"	27	8,794	36
January	3	26,717	69
"	10	15,020	40
44	17	16,547	
44	24	15,709	82

January	3r	\$17,854 7 7
Februar	y 7	15,352 48
"	14	18,997 00
" "	21	7,685 55
"	28	2,069 70
March	6	7,060 75
44 -	13	4,219 84
	20	5,028 35
"	27	4,109 30
April	3	3,558 25
"	10	7,964 10
	Total \$	1,239,233 67

SCHEDULE No. 2,

Showing the Weekly Receipts for Penalties on Water-rents.

April	12	\$ 38 10
"	19	121 20
"	26	118 35
May	3	102 30
"	10	64 50
, α.	17	59 25
	24	77 55
"	31	66 oo
June	7	86 70
"	14	82 65
"	21	67 50
44	28	57 75
July	5	71 70
"	12	76 20
u	19	87 45

July	26	\$145 20
August	2	416 40
44	9	435 25
44	16	302 95
ü	23	241 00
66	30	218 50
Septembe	er 6	286 25
"	r ₃	235 55
44	20	276 55
44	27	344 85
October	4	425 70
44	п	300 60
"	18	296 20
"	25	427 25
Novembe	er 1	878 15
"	8	443 90
44	15	440 10
"	22	719 40
. 44	29	891 25
Decembe	er 6	635 40
	13	487 os
"	20	355 35
"	27	261 75
January	3	612 45
"	10	553 35
"	17	579 00
44	24	507 75
. "	31	513 70
February	7 7	507 05
"	14	436 20
44	21	221 55
	28	110 80
March	6	149 10
'ATTI	V	149 10

March	13	\$141 00
"	20	118 05
46	27	131 70
April	3	148 35
"	IO,,,,,,	129 30
,	Total	\$15,501 15
	and the second of the contract	

SCHEDULE No. 3,

Showing the Weekly Receipts for Taps in Water-pipes.

April	20,	\$424 50
	27	287 00
May	4	336 oo
"	11	161 50
"	18	281 00
"	25	275 00
June	1	265 50
"	8	262 00
"	15	255 00
"	22	220 00
46	29	164 50
July	6.,	211 00
"	13	238 00
44	20	145 50
	27	166 00
August	3	120 50
"	IO	340 00
"	17	214 50
ü	24	262 50
"	31	166 50

Septemb	er 7	\$154 00
- 1	14	138 00
"	21	115 00
"	28	217 50
October	5	147 50
,,	12	156 00
		•
	19	159 50
	26	215 00
Novemb	er 2	192 00
	9	178 50
4.6	16	185 00
"	23	141 50
Decemb	er I	150 00
"	7	159 00
6.6	14	94 50
44	21	68 50
"	28	72 50
January	4	22 50
"	ır	68 oo
	18	66 50
,44	25	54 50
Februar	y r	32 00
	8	73 00
",		47 00
1 16	23	86 50
"	29	77 00
March	7	22 50
"	14	40 00
"	21	79 50
"	28	62 00
April	4	152 50
,,	ro	
	-	512 50
	Total	\$ 8,736 50

SCHEDULE No. 4,

Showing the Expenditures of the Bureau of the Water Register, exclusive of the Salaries of the Permanent Officers and Clerks.

Foreman and laborers, cutting off water	\$2,067 5	0
Tapping pipes	2,163 0	О
Advertising	185 7	0
Metre Dials	62 1	0
Postage Stamps	25 0	o
Total	\$4,503 3	-

SCHEDULE No. 5.

The following Table exhibits the Yearly Revenue derived from Croton Water, as collected by the Department from its introduction into the City in 1842, with the Annual Increase or Decrease thereof to date:

•		TIME.	RECEIPTS.	Increase.	DECREASE.
Octobe	er 5, 1842, to	o May 1, 1843	\$32,053 74		
May	1, 1843,	" 1, 1844	. 84,444 68	\$52,390 94	
46	1, 1844,	" 1, 1845	. 117,277 86	32,833 18	
"	1, 1845,	" 1, 1846	. 163,900 52	46,622 66	
"	1, 1846,	" 1, 1847	. 193,346 24	29,445 72	
"	1, 1847,	" т, 1848	. 219,416 72	26,070 48	
"	1, 1848,	" 1, 1849	. 250,081 51	30,664 79	
**	1, 1849, to	Dec. 31, 1849	259,532 97	* 9,451 46	· · · · · · · · · · · · · · · · · · ·
anuar	ry 1, 1850,	" 31, 1850	458,951 87	† 199,418 90	
u	1, 1851,	" 31, 1851	458,789 78		‡\$162 ¢
"	1, 1852,	" 31, 1852	. 533,965 16	75,175 38	·
"	1, 1853,	" 31, 1853	. 579,956 30	45,991 14	
"	1, 1854,	" 31, 1854	. 608,966 15	29,009 85	
"	1, 1855,	" 31, 1855	. 674,736 42	65,770 27	
"	1, 1856,	" 31, 1856	. 662,949 57		11,786
"	1, 1857,	" 31, 1857	697,370 51	34,420 94	
"	1, 1858,	" 31, 1858	. 730,107 98	32,737 47	
"	1, 1859,	" 31, 1859	759,250 45	29,142 47	
**	1, 1860,	" 31, 1860	. 767,169 62	7,919 17	
**	1, 1861,	" 31, 1861	765,954 35		1,215
**	1, 1862,	" 31, 1862	. 783,234 60	17,280 25	
**	1, 1863,	" 31, 1863	880,958 90	97,724 30	
**	1, 1864,	" 31, 1864	907,234 27	26,275 37	
**	1, 1865,	" 31, 1865	974,333 59	67,099 32	
4.6	r, 1866,	" 31, 1866	1,035,558 66	61,225 07	
66	1, 1867,	" 31, 1867	1,176,728 00	141,169 34	
44	1, 1868,	" 31, 1868	1,232,404 95	55,676 95	
**	1, 1869,	" 31, 1869	1,217,364 93		15,040
"	1, 1 87 0, to	o April 9, 1870	77,641 95		
April	11, 1870,	" 10, 1871	1,193,937 19	. 2 54,214 21	
	11, 1871,	" 10, 1872	1,254,735 29	60,798 10	
	Total.		\$19,752,354 73	\$1,328,527 73	\$28,204

^{*} Eight months.

[†] Under the operation of the Laws of 1849.

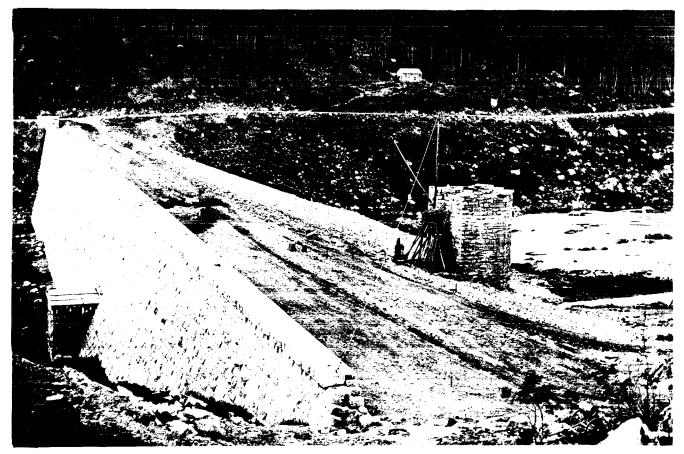
[‡] A reduction in the rents equal to about 10 per cent. was made this year.

[§] Fifteen months under operation of the Laws of 1870, placing the bureau in the Department of Public Works.

REPORT

OF THE

CHIEF ENGINEER.



Rockwood, Phot.,

Reservoir Dam at Boyd's Corners.

PUTNAM CO., N. Y.

REPORT OF THE CHIEF ENGINEER.

DEPARTMENT OF PUBLIC WORKS,

CHIEF ENGINEER'S OFFICE,

235 BROADWAY,

NEW YORK, April 17, 1872.

To George M. Van Nort, Esq.,

Commissioner of Public Works:

SIR—In answer to a communication from you, I would respectfully submit the following as my annual report of the work under the charge of this bureau:

The work of building the water-tight earth embankment on the upper side of the dam at Boyd's Corners, in Putnam County, was prosecuted with diligence and energy during the past season, and was only suspended when the weather became too cold to make good and secure work. As soon as the weather permitted, this Spring, the work was resumed, and is being vigorously prosecuted. It is expected to have this reservoir completed in time to commence filling it during the wet period of the coming Fall.

On the 14th day of April the water was shut off from the Croton Aqueduct, at the Croton Dam, in order to make the regular annual examination of the interior of the aqueduct, and I made a personal inspection of the whole interior from Croton Dam to Manhattanville, and found it in good general condition. At some points slight repairs were needed and made, and the water was let into the aqueduct in forty-eight hours after it was shut off. With this exception the aqueduct has delivered an uninterrupted supply of water during the past year. The interior of the aqueduct is faced with brick masonry, and the bricks which compose this facing show no signs of either wearing away or disintegration, and are as sound and solid as they were when laid, and there is every reason to believe that, with proper care, this structure will successfully perform the duties for which it was built for centuries to come.

The High-service Reservoir, at Carmansville, has now been in use more than a year, and has delivered an uninterrupted supply of water to the higher portions of the island above Manhattanville. The tower, which contains the tank-reservoir for supplying water to the extreme high points on the upper end of the island, will be completed within a few weeks, and will be brought into use as soon as the necessary mains in connection

with it can be laid. The large pumping-engine has been brought into use and works successfully.

The work of the "alteration of the aqueduct from Ninety-third to One Hundred and Thirteenth street" has been steadily prosecuted. The rock excavation, to receive the pipes and sewers, is nearly completed, and the construction of the sewers has been commenced. The forty-eight-inch pipes to be used in this work have been contracted for, and are now being rapidly delivered; a large number of them are now on the ground, and within a few weeks the work of putting them together will be commenced.

The laying of the new thirty-six-inch main pipe, from Forty-second street to Chambers street, to increase the supply and head of water in the lower part of the city, was commenced in the Fall of last year, and was pushed forward with vigor until trouble in the Finance Department necessitated the suspension of the work until this Spring. The work was resumed as early this season as the weather would permit, and will be completed by the Fall. The pipes for the new twenty-inch main, to extend from the High-service Reservoir, at Carmansville, to supply the higher portions of the island, between Murray Hill and Manhattanville, have been contracted for and some of them already delivered. During the past year

a large amount of pipe has been laid in streets where the excavation has been almost wholly through rock, and the expense of doing the work has been thereby greatly increased.

Comparatively but few new contracts for pavements and sewers were let during the past year, and the work on many of these, before the end of the season, was suspended, owing to troubles in the Finance Department.

As the public mind has been much exercised over a possibility of a short supply of water in this city, caused by an unprecedentedly dry Spring, and an actual dearth in neighboring cities, a few facts in regard to the daily consumption, and the resources under control of this Department for securing an adequate supply of water during the dry season, may not be out of place.

Croton water was introduced into New York in 1842, and up to 1848 eighteen million gallons per day gave an abundant supply. At that time the city had about four hundred and fifty thousand inhabitants; and now, with a population of one million, the quantity required is eighty-eight million gallons per day, showing an average yearly increase in the daily consumption of about three million gallons. The actual quantity supplied to the city from the first of April, 1871, averaged eighty-four million gallons per day; and from the first of April, 1871, to the

first of April, 1872, averaged eighty-eight million gallons per day.

The sources of supply of all rivers are from the rain-fall and from springs; sometimes springs occur from sources which are outside of the water-shed in which they are located, and it is highly probable that many large springs, situated in the Croton basin, receive their supply from lands situated outside of it.

Of the rain which falls, a portion of it runs directly into the rivers and a portion is absorbed by the ground; of that absorbed by the ground, a part is again returned, in springs, and the remainder is used up by evaporation and vegetation. By careful experiments, which have been made, it has been shown that at least three-eighths of the rain which falls during a whole year on a watershed will find its way into the stream. During the last six years this Department has kept a raingauge in the Croton basin, not far from its centre, a record of which is annexed, which shows an average annual fall of over forty-nine inches; which would give an amount of water of over eighteen inches in depth, on the whole surface draining into the river, for the yearly supply. of land which drains into the Croton river, above the Croton Dam, is about three hundred and thirty-nine square miles, which will give an average daily supply of water, from rain alone throughout the year, of about three hundred million gallons. But, as many large springs within this basin evidently receive their supply from sources outside of the water-shed, no doubt a much larger supply can be relied on than this calculation shows.

It is therefore evident if the rains were frequent, and evenly distributed throughout the year, there would be a large and constant surplus of water; but as we are subject to long droughts during the Summer and Autumn, there are often times when the quantity of water running in the river is inadequate to supply the daily needs of the city, and the only way to ensure a constant supply is by means of storage reservoirs, which are filled during the wet season and drawn from during the dry season. If enough storage reservoirs are built, a constant supply of water for the full capacity of the aqueduct could be kept up, if no rains should occur for more than six successive months.

The capacity of the existing reservoirs is as follows: Distributing Reservoir at Forty-second street, twenty million gallons; the Old Receiving Reservoir in Central Park, one hundred and fifty million gallons; the New Receiving Reservoir in Central Park, one thousand million gallons, and the Croton Reservoir or Lake, at the head of the aqueduct, five hundred million gallons. The new

storage reservoir at Boyd's Corners will contain about three thousand million gallons.

During the past year careful surveys and examinations have been made with a view to the construction of a second storage reservoir in Putnam County, which will contain three thousand seven hundred million gallons, maps, plans, specifications, and estimate of cost of which will be presented to you at an early day. There are many more eligible sites upon which additional storage reservoirs can be built...

At or near the sources of many of the tributaries of the Croton river there are natural lakes, which vary in size from fifty to six hundred acres. These lakes are generally of great depth, and their waters are remarkably pure and limpid, and are supplied either from springs in the lakes or from springs near which run but a short distance through rivulets before entering them. These lakes, in the aggregate, cover over two thousand acres of land, and three feet drawn from this surface will give about two thousand million gallons.

During the year 1870 there were one hundred days when the natural flow of the Croton river was not enough to supply the necessities of the city. During that time a part of our supply was derived from the natural lakes above alluded to, and nearly two thousand million gallons were obtained from six of them.

Last year, owing to the frequent and copious rains of June, July, August, and October the natural flow of Croton river, aided by the available storage capacity of Croton lake, furnished us our needed supply without recourse being had to the natural lakes. It has never been contemplated to draw from the natural lakes except in extreme cases.

Respectfully submitted,

EDWARD W. TRACY,

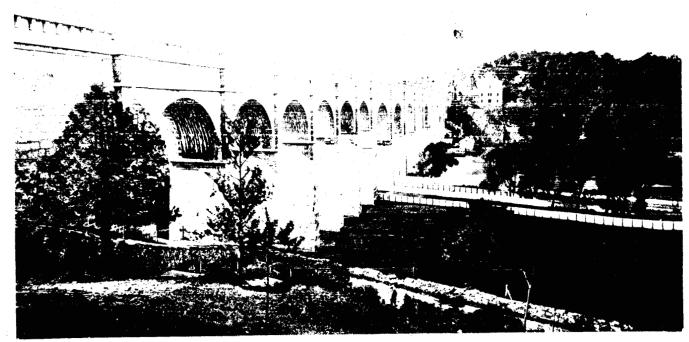
Chief Engineer.

RAIN-FALL

At Storage Reservoir, Boyd's Corners, Putnam County, N. Y., from January, 1866, to March, 1872, inclusive, including Melted Snow.

	MONTH.	1866.	1867.	1868.	1869.	1870.	1871.	1872.
*****	January	*3.33	2.11	2.90	3 · 79	4.51	3.80	1.44
	February	*3.60	3.00	1.38	3.64	6.40	3.81	1.22
	March	*3.33	1.49	2.55	5.48	3.80	4.27	2.59
	APRIL	*3.79	3.74	3.87	2.11	5.45	3.01	1
	MAY	*5.62	6.86	8.79	4 · 52	2.30	3 - 45	
	June	4 · 45	5.28	4.53	3 · 59	2.06	5 · 73	
	July	4.01	5.25	2.13	2.26	3.43	5.07	
	August	6.56	10.04	6.98	1.92	5.10	5.24	
	September	4.92	3.62	9.33	3.20	2.85	1.44	
	OCTOBER	5.09	3.66	0.87	9.46	4.73	6.18	
	NOVEMBER	3.80	3.10	4.65	2.43	2.51	4.35	
	DECEMBER	3.27	2.62	2.35	5.96	1.49	2.59	
	Totals	51.77	50.77	50.33	48.36	44.63	48.93	
	JANUARY IST	51.77	50.77	50.33	48.36	44.63	48.93]
	FEBRUARY 1st	48.44	48.66	47.43	44.57	40.12	45.13	
	MARCH 1st	44.84	45.66	46.05	40.93	33 - 72	41.32	13
	APRIL IST	41.05	44.17	43.50	35 - 45	29.92	37.05	DEC
MC	MAY 1st	37 · 72	40.43	39.63	33 - 34	24 . 47	34.04	DECEMBER 31st,
FR	June ist	32.10	33.57	30.84	28.82	22.17	30.59	{ ∏ 3
TOTALS FROM	July ist	27.65	28.29	26.31	25.23	20.11	24.86	
30	August ist	23.64	23.04	24.18	22.97	16.68	19.79	EACH
	SEPTEMBER 1st	17.08	13.∞	17.20	21.05	11.58	14.55	H YEAR
	OCTOBER 1st	12.16	9.38	7.87	17.85	8.73	13.11	AR.
	November 1st	7.07	5 · 72	7.00	8.39	4.00	6.93	\prod
	DECEMBER 1st	3.27	2.62	2.35	5.96	1.49	2.58]] .

^{*}Average of same months in the four succeeding years. The rain-gauge was first kept at this point on the first of June, 1866.



Rockwood, Phot.,

845 Broadway, N. Y.

High Bridge and High Service Engine House and Tower.

REPORT OF THE SUPERINTENDENT

OF

STREET IMPROVEMENTS.

REPORT OF THE SUPERINTENDENT OF STREET IMPROVEMENTS.

DEPARTMENT OF PUBLIC WORKS,

BUREAU OF STREET IMPROVEMENTS,

237 BROADWAY,

NEW YORK, June 11, 1872.

GEO. M. VAN NORT, Esq.,

Commissioner of Public Works:

SIR—Herewith I beg to transmit my yearly report, exhibiting all the expenditures of this bureau for the year ending April 11, 1872, together with a statement showing balance of appropriations on hand belonging to this bureau, April 11, 1871, amounts drawn during the year, and balances on hand April 11, 1872.

In addition, I beg to transmit a list of special contracts made by this bureau during the year.

Respectfully,

G. PALMER,

Superintendent of Street Improvements.

RETURN OF VOUCHERS issued and Work Done in the Bureau of Street Improve-Year commencing April 10, 1871,

No. ог Voucher.	DATE.	FOR WHAT PURPOSE.	TO WHOM ISSUED.
1	1871. April, 13	One Hundred and Fourth, One Hundred and Fifth and One Hundred and Sixth streets, Eighth avenue to Drive	L. Cronin, contractor
2		Sixty-ninth street, Broadway to Eighth avenue	W. H. Michaels, surveyor
3	" 22	Eighty-seventh street, First avenue to E. Broadway	Jno. W. Pettigrew, contractor
4 5 6	" 25	Tenth avenue, Seventieth to Eighty-first street One Hundred and Fifth street, Third avenue to Harlem river	Jno. Kinsley, contractor Thomas Owens, contractor
7	"	One Hundred and Thirty-second street, Eighth avenue to Harlem river	R. & J. Cunningham, contractor
8 9	" 28	One Hundred and Twenty-second street, Mount Morris square to Ninth avenue. Inspecting contract work	Dennis McCarthy, contractor
10	May, 3	Eighty-first street, Ninth avenue to Drive	Robert Meers, contractor
11 12	""	South street, Jackson to Corlears, &c Eightieth street, Boulevard to Drive.	Mathew McKeon, contractor Daniel Tone, contractor
13		Centre street, Franklin to Leonard street	J. Mahoney, contractor
14		Rector street, Greenwich to Washington street	do do
15 16 17 18 19	66 66 66 66 64 66 64 66	Broome street. Nos. 65 and 67 Suffolk street. Fifty-second street, S. W. corner of First avenue. Fifty-first street, E. S., First to Second avenue. Madison avenue, Twenty-seventh street, S. W. cor. Fifth avenue, Thirty-sixth to Thirty-seventh street.	do do do do do
21		Marion and Prince streets, N. E. corner	do do
22		Thirteenth street, W. S., Nos. 36 and 38	do do
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ments, under the Department of Public Works of the City of New York, for the and ending April 10, 1872.

-1			DEDUCTED.	OF VOUCHER.	Appro- priation.
40	\$1,200 00		·		
11	166 32	\$14,000 00	\$4,200 00	\$9,800 00	St. Reg. Grad'g, &c
31	659 99	266 12		266 82	do.
	8,000 00	5,619 99	1,685 99 2,400 00	3,934 oo 5,6oo oo	do. do.
90	2,700 00		810 00	1,890 00	do,
1 35	6,750 00		2,025 00	4,725 00	do.
. 85	1,850 00 1,343 00 4,264 00	- 15- 00		5.070.00	do.
	2,750 00	7,457 00	825 00	1,925 00	do.
2 50	375 ∞			5,565 00	do.
2 40	9,048 00	9,630 00	2,889 00	6,741 00 971 00	do. do.
1 64	82 00 5,781 00 421 64	6 - 9 - 6 -			do.
27 6	25 38 149 76		5,000 25		do.
27 6	155 25 2 82				do.
60 60	68 85 152 82 91 98 45 00 69 60	150 07		68 85 152 82 91 98 45 00 69 60	do. do. do. do. do.
32	29 18 671 36 5 10	705 64		705 64	do.
	64 40 8 25	- 1			
32	222 08	294 73		294 73	do.
1 40 32	60 78 162 88	223 66		223 66	do.
	1 60 11 3 31 1 24 1 60 90 1 35 50 85 20 1 10 3 00 2 40 1 00 1 40 6 6 7 27 6 6 6 6 7 27 6 6 6 7 27 6 6 7 27 6 7 7 7 7 7 7 7 7 7 8 7 8 8 8 8 8 8 8	1 1 60	1 60	1 60	1 60

RETURN OF VOUCHERS issued and Work Done in the Bureau of Street Improve-Year commencing April 10, 1871,

No. or Voucher.	DATE.		FOR WHAT PURPOSE.	то w	том і	SSUED.
	1871	ι.				
23	May	3	Forty-first street, N.S., Broadway to Seventh avenue	P. Gibney.	. contract	or
24	"	"	Second avenue, Nos. 647 to 651.	do	do	
25	"	"	Second avenue, Thirty-eighth to Thirty-ninth street	do	do	
26	"	"	New Bowery and Roosevelt street, S.E. to S.W. cor	do	do	
27	"	"	Chambers street and West Broadway, N. E. corner	do	do	
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	## ## ## ## ## ## ## ## ## ## ## ## ##	" " " " " " " " " " " " " " " " " " "	No. 178 Greenwich street. Fourth avenue, S. intersection of Eighteenth street. Fourth avenue, N. intersection of Eighteenth street. Forty-third street, Second avenue, N. side. Vandam and Varick streets, S. E. and N. E. corners. King and West streets, N. E. corner. King and Varick streets, S. intersection. do do N. do do do E. do do do W. do One Hundred and Tenth street, First avenue, E. intersection. One Hundred and Twelfth street, First avenue, E. intersection. One Hundred and Thirteenth street, First avenue, E.	do do do do do do do	do d	
47	••	"	E. intersectionOne Hundred and Thirteenth street, First avenue, W. intersection	do.	do.	
48 49	"	"	No. 74 Mulberry street	C. H. Jac do	obus, co	do
50	"	5	Seventy-second street, Second and Third avenues.	J. W. Pet	tigrew, co	ontractor
51	46	"	Fifth avenue, Sixty-ninth to Seventy-fifth streets	H. Coyle,	contracto	or
52	**	"	Tenth avenue, Manhattan street to One Hundred and Fifty-fifth street	J. L. Brow	vn, contra	actor
53	"	8	Eighth avenue, Eighty-first to One Hundredth street	Daniel Tor	ne, contra	actor
	J					

ments, under the Department of Public Works of the City of New York, for the and ending April 10, 1872.

WORK DONE.	Price	AMOUNT.	Amount.	Amount Deducted.	Amount of Voucher,	Appro- priation,
Brought forward	32	\$71,979 94 160 00		\$22,140 34	\$ 49,839 6 0	
395 feet flagging relaid 563 feet flagging	10	39 50 180 16			199 50	St. Reg., Grad'g,&c.
192 feet flagging relaid	32 10	19 20			199 36	do,
1,896 feet flagging 494 feet flagging relaid	32 10	606 72 49 40			656 12	do.
112 feet bridge stone laid.	1 80	201 60			201 60	do.
380 feet bridge stone laid 81 feet bridge stone re- laid		684 oo 48 6o				
172 feet bridge stone 216 feet bridge stone 172 feet bridge stone 172 feet bridge stone 224 feet bridge stone 224 feet bridge stone 38 feet bridge stone 348 feet bridge stone 248 feet bridge stone 254 feet bridge stone 264 feet bridge stone 265 feet bridge stone 264 feet bridge stone 264 feet bridge stone 264 feet bridge stone 265 feet bridge stone 266 feet bridge stone 267 feet bridge stone 267 feet bridge stone 268 feet bridge stone 269 feet bridge stone 269 feet bridge stone 269 feet bridge stone 260 feet bridge stone 260 feet bridge stone 261 feet bridge stone 262 feet bridge stone 263 feet bridge stone 265 feet board fence 266 feet board fence	180 180 180 180 180 180 180 180 180 180	309 60 388 80 201 60 345 60 345 60 626 40 421 20 357 20 357 20 367 20 367 20 367 20 367 30 367 20 367 30 367 20			732 60 309 60 308 80 201 60 345 60 443 20 158 40 345 60 626 40 421 20 351 60 367 20 367 20 367 20 367 20 367 20 367 20 370 20 370 20 370 20 370 20 370 20 370 20 370 20 370 20 370 20 370 20 370 20	do.
1,006 feet curb and gutter. 12,972 feet flagging	69 18	694 14 2,172 96	\$2,867 10	210 00	2,657 10	do.
1,535 yards earth	25 1 00 90 4 00 25	383 75 4,370 00 2,124 90 2,272 00 500 00				
5,000 yards rock 5,000 yards filling	3 50 1 95	17,500 00 9,750 00	9,650 65	6,755 45	2,895 20	do.
1,400 feet curb and gutter. 1,117 yards earth 4,668 yards rock	1 00 56 1	628 31	28,650 00	2,865 00	25,785 00	do.
4,000 yards rock	2 25 80	10,503 00	21,238 51	6,371 55	14,866 96	do.
Carried forward	ll	\$144,028 08		\$38,342 34	\$105,685 7 4	1.

No. of Voucher.	DATE.		FOR WHAT PURPOSE.	TO WHOM ISSUED.		
	1871					
55	May 9		May 9		Seventy-second street, Third to Fourth avenue	A. Dowdney, contractor
56		"	Eighty-sixth street, Eighth avenue to Drive	G. A. Tracy, contractor		
57	"	11	Bank street, West street to North river	E. L. Viele, surveyor		
58	**	**	One Hundred and Twenty-third street, Eighth to New avenue	E. E. McLean, surveyor		
59	"	"	South Fifth avenue, renumbering streets	do do		
			New Church street	do d o		
			One Hundred and Thirtieth street, Fifth to Sixth	do do		
6 1	"	13	Second avenue, Sixtieth street to Harlem river, renumbering			
62	"	15	Sixty-fifth street, Third to Fifth avenue	P. Farley, contractor		
		-				
63		•	Eighth avenue, Fifty-ninth to Seventy-seventh street	Tames Slattery contractor		
_		-				
64	"	20	One Hundred and Fifth street, Third avenue to Harlem river	John Kinsley, contractor		
65	**	24	Seventy-fourth street, Fifth avenue to Third avenue	W. H. Michaels, surveyor		
66	**	"	Charlton street, Hudson to Greenwich street	W. V. Smith, surveyor		
67	"	"	Tenth avenue, Fifty-first to Fifty-second street	do do		
68 69	66	"	Nos. 200 to 204 East Fourteenth street	do do		
•			to Harlem river	M. H. Moore, contractor		
70			Seventy-third street, Eighth avenue to Hudson river	John Harris, contractor		
71	June		Tenth avenue, Manhattan street to One Hundred and Fifty-fifth street	J. L. Brown, contractor		
72		5	Inspecting contract work	Inspector's Pay-roll for May		

ments, under the Department of Public Works of the City of New York, for the and ending April 10, 1872.

WORK DONE.	PRICE	Amount.	Amount.	Amount Deducted.	Amount of Voucher.	APPRO- PRIATION.
Brought forward 2,600 yards earth 7,080 yards rock 1,346 feet curb and gutter 328 feet curb and gutter		\$144,028 08 650 00 7,080 00 1,009 50		\$38,342 34	\$105,685 34	
reset	9 16 3	29 52 896 64 33 96	\$9,699 6 2	6,262 20	3,437 42	St. Reg.,
1,000 yards earth 8,000 yards rock	40 <u>4</u> 1 63	407 50 13,040 00		4,034 25	9,413 25	Grad'g,&c do.
479 lineal feet profile 478 lineal feet work 1,366 lineal feet map front.	7 11 3	33 53 52 59 40 98	13,447 50	4,034 25	127 10	do.
2,425 lineal feet preliminary	_	121 25			121 25	do.
6,086 lineal feet map	5	60 86	,		-55	St. Imp.
3,696 lineal feet map	ı	36 96				Appro, Acc
1,840 lineal feet map	1	18 40			6 00	do
		_	116 22		116 22	
27,481 lineal feet map	I	274 81			274 81	do.
1,811 yards filling 2,819 feet curb and gutter. 23,096 feet flagging 31,200 yards filling	80	362 20 2,255 20 4,619 20 15,288 00	7,236 60	4,586 40		St. Reg., Grad'g,&c do.
· 3,000 yards filling	90	2,700 00	And the second s	810 00	1,890 00	do.
5,034 lineal feet work 8,329 lineal feet map front Binding Assessment List	3	553 74 249 8 7 5 00			808 61	do.
133 lineal feet work	41	12 66 5 98 5 16	-			
878 lineal feet map front. 150 lineal feet map front.	. 3	26 34 4 50	23 80		23 80 26 34 4 50	do.
6,500 yards filling	85	5,525 00		1,657 50	3,867 50	do.
2,600 yards rock	1 00	2,600 00		780 00	1,820 00	do.
10,000 yards filling 1,600 feet curb and gutter 24,000 feet flagging	1 00	19,500 00 1,600 00 6,000 00		-		
1,974 working days	3 00	5,922 00	27,600 00	2,760 00	24,840 00	do.
162 working days		405 00			6,327 00	do.
Carried forward		\$235,954 43		\$59,232 69	\$176,721 74	

No. ов Voucher.	DATE.		FOR WHAT PURPOSE.	то wном	ISSUED.
	1871				
	-				
73	June	5	Seventy-seventh street, First avenue to East river	J. L. T. Smith,	surveyor
74	"	"	Thirty-fifth street, Third to Lexington avenue	do	do
75	**	"	Sixty-ninth street, Third to Fourth avenue	do	do
76	"	"	Fifty-second street, Sixth to Seventh avenue	đo	do
77	"	6	Seventy-fourth street, Fifth avenue to East river	D. Babcock, cont	ractor
₇ 8	"	7	Eighty-seventh street, First to Second avenue		
79			Fifty-fourth street, Broadway to Seventh avenue	do	do
80	"	"	One Hundred and Eleventh street, N. intersection		_
81	"	"	of First avenue	do	do
82	"		of First avenue	do	do
		"	of First avenueOne Hundred and Thirteenth street, N. intersec-	do	do
83	1 "	•••	tion of First avenue	do	do
84	"	"	One Hundred and Thirteenth street, S. intersection of First avenue	do	do
85	"	8	Ninth avenue, Broadway to Eighty-sixth street	J. M. Lyon, con	tractor
86	"	"	Sixty-ninth street, Eighth avenue to Broadway	D. Meers, contra	actor
87	"	"	West Thirty-fourth street, Nos. 431 to 439	P. O. Beirne, su	rveyor
88	. "	"	N. W. corner of Clinton and South streets	do	do
89	"	"	S. E. corner Gouverneur and Henry streets	do	do
90	"	13	Tenth avenue, Manhattan to One Hundred and Fifty-fifth street	F. E. Toule, sur	veyor

ments, under the Department of Public Works of the City of New York, for the and ending April 10, 1872.

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WORK DONE.	Price	Amount.	Amount.	Amount Deducted.	AMOUNT OF VOUCHER.	Appro- priation.
Brought forward 1,613 lineal feet preliminary	5	\$235,954 43 80 65		\$59,232 69	\$176,721 74 80 65	St. Reg., Grad'g,&c.
190 lineal feet work 290 lineal feet map	3	5 70 8 7 0	\$14 40		7 4 40	do.
900 lineal feet work 2,200 lineal feet map front.	3	99 00 66 00		-	14 40	
1,470 lineal feet work 1,576 lineal feet map front.	3	44 10 47 28	165 00		165 00	do.
3,400 yards of earth 22,409 yards rock 50,764 yards filling 3,106 feet curb and gutter. 12,606 feet flagging	25 1 00 50 70 15	850 00 22,409 00 25,382 00 2,174 20 1,890 90	91 <u>3</u> 8		91 38	do.
160 feet curb and gutter. 1,280 feet flagging		224 00 409 60	52,706 10	36,894 27	15,811 83	do.
1,721 feet flagging 188 feet flagging relaid	32 10	550 72 18 80	633 60		633 60	do.
230 feet bridge stone	1 8o	414 00	569 52		569 52 414 00	do. do.
232 feet bridge stone	1 80	417 60			417 60	do.
234 feet bridge stone	1 80	421 20			421 20	do.
231 feet bridge stone	180	415 80			415 80	do.
231 feet bridge stone	1 8o	415 80	-		415 80	do.
5,177 yards earth	332 1 35 35 3 00	1,733 73 61,997 40 12,840 10 2,157 00 19,038 18	97,766 41	73,593 36	24,173 05	do.
300 yards earth	33 1 32 50 75	99 00 22,698 72 2,694 00 2,018 25 1,998 99	3/// 4-	73,393 3		
125 lineal feet profile 125 lineal feet map front.	3 3	3 75 3 75	29,508 96	20,905 27	8,603 69	do.
127 lineal feet profile 94 lineal feet map	3	3 81 2 82	7 50		7 50	do.
121 lineal feet profile 96 lineal feet map	3	3 63 2 88	6 63		6 63	do.
7,660 lineal feet preliminary 2,095 lineal feet preliminary	1	536 20 20 95	6 51		6 51	do.
2,095 lineal feet preliminary	I	20 95	578 10		578 10	do.
Carried forward		\$470,17 3 59	• • • • • • • • • • • • • • • • • • • •	\$190,625 59	\$229,548 00	

No. of Voucher.	DATE.		FOR WHAT PURPOSE.	TO WHOM ISSUED.
	1871			
91	June	13	No. 20 Clark street	J. Mahoney, contractor
92	• • •	"	Rutgers slip, Water to South street	Thomas Gearity, contractor
93	"	"	West street, S. side of Perry to Pier No. 54	W. A. Cumming, contractor
94	46	15	Eighty-third street, Third to Fifth avenue	Michael Hays, contractor
95	**	19	Sixty-seventh street, Eighth avenue to Hudson river	R. & J. Cunningham, contractors
96	44	20	One Hundred and Thirty-second street, Eighth avenue to Hudson river.	R. & J. Cunningham, contractors
97	"	23	One Hundred and Fifth street, Third avenue to	T-l- Wissland
98	"	26	Harlem river	John Kinsley, contractor Charles Miner, contractor
99	"	"	Fifty-ninth street, First avenue to East river	J. Fitzpatrick, contractor
100	"		Sixth avenue, Fiftieth to Fifty-ninth street	
101	"	30	Inspecting contract work	Inspector's Pay-roll for June
102	July	1	Ninth avenue, Eighty-sixth to One Hundred and Tenth street	George A. Tracy, contractor
103	"	"	Eighty-sixth street, First avenue to East river	R. & J. Cunninghan contractors
104	"	5	Tenth avenue, Manhattan to One Hundred and Fifty-fifth street	J. L. Brown, contractor
105		"	One Hundred and Thirteenth street, Third avenue to Harlem river	M. H. Moore, contractor
	1		l .	

ments, under the Department of Public Works of the City of New York, for the and ending April 10, 1872.

WORK DONE.	PRICE	Amount.	Amount.	AMOUNT DEDUCTED.	Amount of Voucher.	APPRO- PRIATION.
Brought forward 25 feet board fence	75	\$420,173 59 18 75		\$ 190,625 59	\$229,548 00 18 75	St. Reg., Grad'g,&c.
2,248 feet flagging 20 feet flagging relaid	24 10	539 52 2 00			,	
309 feet bridge stone	1 30	401 70	\$541 52	162 00 12 00	379 52 389 70	do. do.
480 feet curb and gutter. 3,074 feet curb and gutter	85	408 00				
reset	72 212	238 23 3,059 79				
relaid	14	178 45	3,884 47	1,165 32	2,719 14	do.
5,000 yards rock 20,000 yards filling 864 feet curb and gutter. 7,200 feet flagging	1 38 35 80 20	6,900 00: 7,000 00 691 20 1,440 00		8	0.	do.
4,425 yards filling 1,020 feet curb and gutter. 18,680 feet flagging	50 85 20	2,212 50 867 00 3,736 00			4,770 85	
6,000 yards filling 4,000 yards rock	90 1 81	5,400 00 7,240 00		1,620 00 2,172 00	3,780 oo 5,068 oo	do.
2,195 yards earth	1 37 85	751 78 601 43 1,287 11 1,293 60		0		do.
1,400 lineal feet profile 2,130 lineal feet map front.		42 00 63 90	t e			
2,079 working days		6,237 00 180 00			105 90	
4,000 yards earth		2,500 00			6,417 ∝	do.
5,000 yards rock		2,085 86	15,000 00	4,500 00	10,500 00	do.
39,018 feet flagging	20	7,803 60	9,889 46	6,967 92	2,921 5	do.
15,000 yards rock	. I 95	52,500 00 19,500 00 4,000 00 10,000 00		8,600 00	77,400 0	do.
50 yards earth 5,000 yards filling 3,800 feet curb and gutter 15,000 feet flagging	. 85	35 00 4,250 00 1,520 00 1,500 00				
-3,000 1001 mggmg	1		7,305 0	2,191 50	5,113 50	do.

RETURN OF VOUCHERS issued and Work Done in the Bureau of Street Improve-Year commencing April 10, 1871,

No. of Voucher.	DATE.		FOR WHAT PURPOSE.	TO WHOM ISSUED.
	1871	·		
106	July		Tenth street, Avenue D to East river	C. H. Haswell, surveyor
107	"	11	Forty-sixth street, Eleventh avenue to Hudson river	J. Lenihan, contractor
108	"	17	Lexington avenue, Sixty-sixth to Ninety-sixth street	F. E. Towle, surveyor
100	"	21	Ninety-sixth street, Fifth to Second avenue	M. J. Bannon, contractor
110		"	Fifth avenue, One Hundred and Thirtieth to One Hundred and Thirty-eighth street	Thomas Owens, contractor
111	**	22	Fiftieth street, Fifth to Madison avenue	M. Mahoney, contractor
112	"	27	Fifth avenue, One Hundred and Thirtieth to One Hundred and Thirty-eighth street	W. H. Michaels, surveyor
113	**	"	Fifty-first street, Broadway to Eighth avenue	do do
114	"	"	One Hundred and Forty-seventh street, Avenue St. Nicholas to Twelfth avenue	Geo. H. Van Cleft, surveyor
115	"	"	Forty-sixth street, Eleventh avenue to Hudson river	P. O'Beirne, surveyor
116	"	۲,	Fiftieth street, Fifth to Madison avenue	do do
117	"	"	Sixty-seventh street, Fourth to Fifth avenue	F. E. Towle, surveyor
118	"	"	Lawrence street and Broadway	do do
119	"	"	Ninth avenue, N. intersection of One Hundred and Twenty-fifth street	do do
120	"	"	No. 1,196 to No. 1,201 Broadway	do do
151	"	"	Worth street, S. W. to N. W. corner of Chatham street.	do do
122	"	"	Lawrence street and Ninth avenue, W. intersection	do do

ments, under the Department of Public Works of the City of New York, for the and ending April 10, 1872.

WORK DONE.	Price	Amount.	AMOUNT.	AMOUNT DEDUCTED.	AMOUNT OF VOUCHER.	APPRO- PRIATION.
Brought forward 871 lineal feet map front.	3	\$589,158 or 26 13		\$226,050 52	\$363,107 49 26 13	St. Reg., Grad'g,&c
1,190 yards filling 356 feet curb and gutter.	40 90	476 00 320 40				Orac g, co
9,734 feet flagging	20	1,946 80	\$2,743 20	822 96	1,920 24 558 88	do. do.
7,984 lineal feet profile 8,000 yards rock	1 30	558 88	-	3,120 00	7,280 00	do.
o,ooo yaras rock	. 30			3,	,,===	
6,850 yards filling 2,510 feet curb and gutter.		9 84 9,247 50 25 10		Aden		
6,984 feet flagging	I	169 84	9,452 28	2,835 68	6,616 60	đo.
25 yards rock 9,156 feet flagging	2 00	1,922 76	1,972 76	591 82	1,380 94	do.
3,248 lineal feet preliminary		227 36	79, ,		,3 31	}
1,180 lineal feet soundings. 2,119 lineal feet work	3	56 40 233 09				
3,692 lineal feet map front.		410 76				
Binding Assessment List		5 00	932 61		932 61	do.
331 lineal feet work 432 9-12 lineal feet map		9 93	932 01		932 01	uo.
. front	3	12 98	22 91		22 91	do.
2,800 lineal feet profile	5	140 00		1	140 00	do.
810 lineal feet work	11	89 10				
2,004 lineal feet map front.		60 12		ļ		•
940 lineal feet work	3	28 20	149 22		149 22	do.
1,244 lineal feet map front.	3	37 32				
1,020 lineal feet profile	5	51 00	65 52		65 52 5τ ∞	do. do.
448 square feet work	3	13 44				
1,029 lineal feet map front.		30 87	44 31		44 31	đo.
354 square feet work	,	10 62				
654 lineal feet map front.	3	19 62		1		
			30 24		30 24	do.
222 square feet work 732 lineal feet map front.	3	6 66				
732 miear feet map front.	3	21 96	28 62		28 62	do.
252 square feet work	3	6 96				
465 lineal feet map front.	3	13 95	20 91	į	20 91	do.
168 square feet work	3	5 04	20 91		20 91	40.
417 lineal feet map front.	3	12 51				

RETURN OF VOUCHERS issued and Work Done in the Bureau of Street Improve-Year commencing April 10, 1871,

No. оғ Voucher.	DATE.		FOR WHAT PURPOSE.	TO WHOM ISSUED.
	1871	T .		
123	July 27		Twentieth street and Second avenue, E. intersection	F. E. Towle, surveyor
124	"	"	Grand street, N. W. corner of Ridge street	do do
125	"	"	Sixty-second street, south side, between Broadway and Ninth avenue	do do
126	**	"	Thirty-fifth street, east side, Nos. 244 to 248	do do
127	"	18	Tenth avenue, Seventieth to Eighty-first street	J. S. Masterson, contractor
128	"	31	Inspecting contract work	Inspector's Pay-roll for July
129	"	"	Church street, Fulton to Morris street	E. Boyle, surveyor
130	Augus	st 8	First avenue, Ninety-second to One Hundred and Ninth street	J. L. Brown contractor
131	"	"	Tenth avenue, Manhattan to One Hundred and Fifty-fifth street	do do
132	"	"	Seventy-fifth street, Eighth to Tenth avenue	John Harris, contractor
133	"	"	One Hundred and Fifth street, Third avenue to Harlem river	-
134	"	14	One Hundred and Nineteenth street, Fourth to	, , , ,
135	"	"	Eighth avenue One Hundred and Twenty-second street, Mount Morris square to Ninth avenue	do do
136	"	"	Sixty-third street, First avenue to East river	L. Cromie, contractor
137	"	"	Seventy-seventh street, Third to Fifth avenue	R. Cunningham, contractor
138	"	"	Twenty-second street, Eleventh avenue to Hudson river	M. Gavin, contractor
139	64	"	First avenue, Ninety-second to One Hundred and Ninth street	F. E. Towle, surveyor
140	"	"	Seventy-seventh street, Third to Fifth avenue	E. E. McLean, surveyor
141	. "	"	Twenty-second street, Eleventh avenue to Hudron river	do do
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ments, under the Department of Public Works of the City of New York, for the and ending April 10, 1872.

WORK DONE.	PRICE	Amount.	Amount.	Amount Deducted.	AMOUNT OF VOUCHER.	Appro-
Brought forward 168 square feet work	3	\$615,814 15 5 04		\$233,420 98	\$ 382,393 17	St. Reg., Grad'g,&c.
364 lineal feet map front.	3	10 92	\$15 96		15 96	
184 square feet work 330 lineal feet map front.	3	5 52 9 90	".		15 42	do.
Filling three sunken lots 60 lineal feet map front.	1 50 3	4 50 1 80	15 42 6 30		6 30	_
75 lineal feet work 75 lineal feet map front.	3 3	2 25 2 25	4 50		4 50	
3,000 yards rock 2,800 feet curb and gutter.	1 50 75	4,800 00 2,100 00	6,900 00	2,070 00	4,830 00	
1,646 working days	3 00	4,938 00	0,900 00	2,070 00	4,938 00	
2,216 lineal feet preliminary 2,216 lineal feet final 18,548 2-3 lineal feet map	11	155 12 243 76				
front	3	. 556 46	955 34		955 34	do.
41,130 yards filling	95	39,073 50		3,907 35		
44,25 Januar 112111g 1111111	93	39,973 3-		3,5 , 55	507	
5,000 yards fock 5,000 yards filling	3 50 1 95	17,500 00 9,750 00		2,725 00	24,525 00	do.
6,146 yards filling	75	4,609 50		1,382 85		
3,000 yards filling	90	2,700 00	· į	810 00	1,890 00	do.
3,800 yards rock	1 40	5,624 00	,	1,687 20	3,936 80	do.
4,100 yards filling	1 10	4,510 00	,	1,353 00	3,157 00	do.
800 yards earth	. 88	176 00 3,520 00				
7,000 yards filling	I	70 00	3,766 ∞	1,129 80	2,636 2	
16,228 feet flagging	21	3,407 88		1,022 36		do.
573 feet curb and gutter		515 70	}			
4,950 feet flagging	23	1,138 50	1,654 20	1,021 26	632 9	4 do.
4,437 lineal feet preliminary		310 50	2		310 5	9
3,250 lineal feet work 3,521 lineal feet map	3	97 50				
Con a second map 1111	3	233 0,	203 1	3	203 1	3 do.
394 lineal feet work	. 11	43 34 33 30		4	76 6	4 do.
Comind forms		Ø 0			·	-1 '
Carried forward		. \$721,835 11	Li	. \$250,529 80	\$471,305 3	41

RETURN OF VOUCHERS issued and Work Done in the Bureau of Street Improve-Year commencing April 10, 1871,

No. of Voucher.	DATE.		FOR WHAT PURPOSE.	то	who	om is	SUE	D.
	1871							
142	Aug.	j	Clark street, east side, Broome to Spring street	D. S.	Mead,	Jr., sui	rveyor	·
143	66	"	No. 73 Christopher street		do		do	· • • • •
144	"	"	Nos. 52 and 54 Bank street		do		do	
145	"	16	Avenue A, Sixty-first to Eighty-sixth street	F. E.	Towle.	survey	or	
146	"	61	Eighth avenue, Eighty-first to One Hundreth street	James	B. De	vlin, con	ntracto	or,
147	"	10	Seventy-seventh street, First avenue to East river	H. Bo	vle. con	tractor	. .	
148	"	"	Eighty-seventh street, Drive to New avenue					
149	"	20	Congress street, S. W. and S. E. cor. Houston st.	A. F.	Dodge,	survey	or	••••
150	"	"	Congress and King streets, N. W. to N. E. corner.		do	do		
151	"	25	Ninth avenue, Eighty-sixth to One Hundred and Tenth street	G. A.	Тгасу,	contrac	tor	
152	**	"	Eighty-seventh street, Drive to New avenue		do	do		
153	"	"	Eighty-seventh street, First avenue to East river	J. W.	Pettigre	ew, con	tracto	r
154	"	31	One Hundred and Thirteenth street, Third avenue to Harlem river.	F. E.	Towle,	survey	or	
155	"		No. 274 West street.	Е. В.	Mead,	survey	or	· · · · ·
156	"	"	Howard street, Broadway to Crosby street		do	do		
157	"	"	Inspecting contract work	Inspec	etor's Pa	ay-roll f	or Au	gust
158 159	Sept.		Eighty-sixth street, Eighth avenue to Drive Tenth avenue, Manhattan to One Hundred and Fifty-fifth street					
160		"	Sixty-eighth street, Eighth avenue to Harlem river.		Brown, es Mine			
			· ·					

ments, under the Department of Public Works of the City of New York, for the and ending April 10, 1872.

WORK DONE.	Price	Amount.	Amount.	AMOUNT DEDUCTED.	Amount of Voucher.	Appro- priation.
Brought forward 463 lineal feet preliminary 107 lineal feet final 481 lineal feet map front .	3 4½ 3	\$721,835 11 13 89 4 82 14 43		\$250,529 80	\$471,305 3I	-
119 lineal feet preliminary 26 lineal feet final	1	3 57 1 17	\$33 14		33 14	St. Reg., Grad'g,&c.
127 lineal feet map front 52 lineal feet preliminary		3 81 1 56	8 55	,	8 55	do.
52 lineal feet final 82 lineal feet map front.	41/2 3	2 34 2 46	6 ₃ 6		6 36 461 23	
6,589 lineal feet preliminary 4,722 yards rock 2,328 yards filling	2 25 80	461 23 10,624 50 1,862 40			40. 23	
8,000 yards earth	23	1,840 00	12,486 90	3,746 o7 552 ∞	8,740 83 1,288 00	
1,125 lineal feet work 2,852 lineal feet map	3	123 75 85 56	209 31		209 31	do.
78 1-2 square feet work. 711 2-3 lineal feet map	3	2 36 21 35	23 71		23 71	do.
71 1-2 square feet work. 669 7-12 lineal feet map	3 3	2 15 20 09	22 24		22 24	do.
8,000 yards rock	2 50	20,000 00		6,000 00	14,000 00	do
2,086 feet curb and gutter. 8,104 feet flagging	1 00	2,086 oo 1,620 80	3,706 80	1,112 04	2,594 76	do
1,568 yards earth		483 60 2,274 16 1,185 00 950 00	4,892 76			
2,428 lineal feet work 5,321 lineal feet map	11	267 08 159 63	426 71		426 71	
371 square feet work 554 lineal feet map	3	11 13 16 62	27 75		27 75	
92 lineal feet preliminary 153 lineal feet final 170 lineal feet map	4 41 3	3 68 6 88 5 10				
1,691 working days	3 ∞	5,073 00	15 66		15 66 5,0 7 3 00	
8,000 yards rock	1 63	13,040 00		3,912 00	9,128 00	do.
5,000 yards rock	3 50 1 95 25	17,500 00 9,750 00 3,750 00				
5,000 yards rock	1 81	9,050 00	31,000 00	3,100 00 2,715 00	27,900 00 6,335 00	
Carried forward		\$824,159 23		\$273,134 74	\$551,024 49	

RETURN OF VOUCHERS issued and Work Done in the Bureau of Street Improve-Year commencing April 10, 1871,

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	No. оғ Voucher.	DAT	E.	FOR WHAT PURPOSE.	TO WHOM ISSUED.
		-0			The second secon
		1871			
	101	Sept.	13	Sixty-sixth street, Tenth avenue to Boulevard	Charles H. Reilly, contractor
	162	"	"	Seventy-fourth street, First avenue to Avenue A	Charles Devlin, contractor
	163	"	14	Seventy-fourth street, First avenue to Avenue A	P. O. Beirne, surveyor
	164	"	"	First avenue, Thirty-third to Thirty-fourth street	do do
	165	66	"	One Hundred and Eighteenth street, First avenue to Avenue A	F. E. Towle, surveyor
	166	"	"	Tenth avenue, N. intersection of Manhattan street.	do do
	167	"	"	No. 174 Madison street	E. B. Mead, surveyor
	168	"	"	East Broadway and Jefferson street	do do
	169		"	Rivington and Essex street	A. F. Dodge, surveyor
	170	"	"	One Hundred and Fifth street, Third avenue to	John Kinsley, contractor
	171	**	"	One Hundred and Fourth, One Hundred and Fifth, and One Hundred and Sixth street, Eighth avenue to Public Drive	
	172	"	"	No. 1,259 Broadway	F. E. Towle, surveyor
	-,-				
	173	"	"	No. 1,186 Broadway	do do do do
	174	"	"	Twelfth street, between Third and Fourth avenues Opposite Church of St. Ann	do do do do
	175	46	"	No. 39 West Twenty-ninth street	do do
	176	44	"	Fortieth street, Second German M. E. Church	do do
	177	"	25	East Broadway and Catharine street, S. E. to N. E. corner	do do
	178	"	29	One Hundred and Thirty-second street, Eighth avenue to Harlem river	J. Rudolphy, surveyor
	179	"	30	Inspecting contract work	Inspector's Pay-roll, September

ments, under the Department of Public Works of the City of New York, for the and ending April 10, 1872.

WORK DONE.	Price	Amount.	Amount.	Amount Deducted.	Amount of Voucher,	Appro- priation.
Brought forward	32½ 1 30	\$824,159 23 292 50 7,540 00		\$273,134 74	\$551,024 49	
1,296 feet curb and gutter.	90	1,166 40	\$7,832 5	2,349 75	5,482 75	St. Reg., Grad'g,&c.
10,282 feet flagging	21	2,159 22 60 12	3,325 6	997 68	2,327 94	do.
1,638 lineal feet map	4½ 3	49 14	. 109 2	:6	109 26	do.
265 lineal feet work 400 lineal feet map	4½ 3	11 92	23 9		23 92	
653 lineal feet work	4½ 3	29 38 39 51	68 8	ig l	68 89	do.
408 square feet work 897 square feet map	3	12 24 26 91		5	39 15	do.
171 square feet work 1,281 lineal feet map	3	5 13 38 43			43 56	
194 square feet work 196 lineal feet map	3	5 82 5 88	, 11 7		11 70	
132 square feet work 604 9-24 lineal feet map	3	3 96 18 13			22 09	do.
5,000 yards filling	- 90	4,500 00		1,350 00	3,150 ∞	_
2,000 yards earth 7,000 yards rock	40 1 60	800 00 11,200 00		3,600 00	9 400 00	do
222 square feet work 665 lineal feet map	3	6 66 19 95		3,000 00	8,400 00	do.
296 square feet work 733 lineal feet map	3 3	8 88 21 96	26 6 :		26 61	do.
168 square feet work 1,096 lineal feet map	3	5 04 32 88			30 84	do.
168 square feet work 856 lineal feet map	3	5 04 25 68		!	37 92	44
168 square feet work 1,681 lineal feet map	3 3	5 04 50 43		ļ	30 72	
678 lineal feet map	3	20 34	55 4	7	55 47	do.
334 square feet work	3	10 02	30 3	36	30 36	do.
3,619 lineal feet work 9,108 lineal feet map Binding Assessment List	3	398 09 273 24 5 00	l i			
1,514 working days	3 00	4,542 00	676 3	33	676 33 4,542 00	
Carried forward		\$ 857,566 17	i : • • • • • • • • • • • •	\$281,432 17	\$576,134 00	

RETURN OF VOUCHERS issued and Work Done in the Bureau of Street Improve-Year commencing April 10, 1871,

No. of Voucher.	DATE.		FOR WHAT PURPOSE.	TO WHOM ISSUED.
	1871			
180	Sept.		Eighty-first street, Ninth avenue to Public Drive	R. Meers, contractor
181	Oct.	2	Sixty-ninth street, Drive to Hudson river	do do
182	"	"	Eighty-first street, Ninth avenue to Drive	A. D. Ewen, surveyor
183	"	9	Tenth avenue, Manhattan street to One Hundred and Fifty-fifth street	
184	"	14	Ninety-sixth street, Fifth to Second avenue	M. J. Bannen, contractor
185	"	18	Eighth avenue, Fifty-ninth to Seventy-seventh street	J. Slattery, contractor
186	"	"	Eighth avenue, Eighty-first street to One Hundredth street.	J. B. Develin, contractor
187	"	"	Eighth avenue, One Hundredth to One Hundred and Twenty-second street	
188		23	One Hundred and Twelfth street, Second avenue to Harlem river.	
189	"	"	Fifty-first street, Sixth to Seventh avenue	Michael Gavin, contractor
190	**	24	One Hundred and Thirty-fourth street, Fourth to Eighth avenue	M. Donahoe, contractor
191	**	27	Eighty-third street, Eighth avenue to Drive	E E. McLean, surveyor
192	"	"	First avenue, Sixty-fifth to Eighty-sixth street	do do
193	"	"	Tenth avenue, Seventieth to Eighty-first street	J. T. Masterson, contractor
194		"	Tenth avenue, Seventieth to Eighty-first street	W. H. Michaels, surveyor
195	."	31	Inspecting contract work	Inspector's Pay-roll for October.

ments, under the Department of Public Works of the City of New York, for the and ending April 10, 1872.

				1		
WORK DONE.	PRICE	Amount.	Amount.	AMOUNT DEDUCTED.	Amount of Voucher.	APPRO- PRIATION.
Brought forward	60	\$857,566 17 55 80 4,288 80		\$281,432 17	\$576,134 ∞	
1,787 yards rock	2 40	4,288 80	\$4,344 60	1,303 38	3,041 22	St. Reg., Grad'g,&c.
1,500 yards rock	2 25	3,300 00		990 00	2,310 00	do.
1,194 lineal feet work 2,596 lineal feet map	3	77 88	209 22		209 22	do,
5,000 yards rock	1 95	17,500 00 9,750 00 3,000 00 7,500 00	37,750 00	3,775 00	33,975 ∞	do.
5,000 yards rock	1 30	6,500 ∞		1,950 00	4,550 00	do.
4,033 yards earth. 355 yards rock. 3,827 yards filling.	25 1 00 49	1,008 25 355 00 1,875 23	3,238 48	971 54	2,266 94	do.
8,000 yards rock	2 25 80	18,000 00 4,446 40	22,446 40	6,733 92	15,712 48	do.
1,308 yards rock 4,762 yards filling		2,616 00 5,357 25	7,973 25	2,391 97	5,581 28	đo.
582 yards earth 10,659 yards filling 1,244 feet curb and gutter. 10,676 feet flagging	20 55 80 20	116 60 5,862 45 995 20 2,135 20		9	6 6 - 6-	do.
475 yards earth 1,104 yards rock		195 94 1,821 60	9,109 45 2,017 54		6,376 62 1,412 28	do.
3,500 yards earth 5,000 yards filling	5 1 50	175 00 7,500 00	7,675 ∞		5,372 50	do.
3 certificates for con- tract		30 ∞	/,,,,,	1,3-3	30 00	•
8,018 lineal feet work 16,311 lineal feet map		360 81 489 36	0		950 75	do.
804 yards earth 1,216 yards rock 2,003 feet curb and gutter. 17,336 feet flagging	1 60	321 60 1,945 60 1,502 25 4,334 00	850 17		850 17	
2,984 lineal feet work 17,780 lineal feet map front Binding Assessment List	. 3	328 24 533 67 5 00	8,103 45		5,672 41	
1,279 working days	3 00	3,837 00	866 9:		3,837 oc	
Carried forward	.	\$975,817 64		\$307,619 61	\$668,198 og	

RETURN OF VOUCHERS issued and Work Done in the Bureau of Street Improve-Year commencing April 10, 1871,

No. or Voucher.	DATE.		FOR WHAT PURPOSE.	то wно	OM ISSUED.	
	1871	ι,				
196	Nov.	2	Lexington avenue, Sixty-sixth to Ninety-sixth street	James Reilly	, contractor	
197	"		Tenth avenue, Manhattan to One Hundred and Fifty-fifth street		L. Brown, contractor	
198	"	9	Seventy-second street, Eighth avenue to Hudson river	G. A. Tracy,	contractor	
199	"	"	Fifty-ninth street, Ninth to Tenth avenue	James Everar	d, contractor	
200	"	"	Fifty-ninth street, Ninth to Tenth avenue	P. O'Beirne,	surveyor	
201	"	"	One Hundred and Twenty-third street, Third to Fourth avenue	Norman Ewe	ı, surveyor	
202	**	"	Fifty-fifth street, Broadway to Eighth avenue	do	do	
203	"	"	Eleventh avenue, Fifty-fourth to Fifty-fifth street	do	do	
204	"	11	One Hundred and Thirty-fifth street, Eighth avenue to Harlem river.	E. J. Quirk,	contractor	
205	"	13	Charlton street, Greenwich to Hudson street	P. Gibney, co	ntractor	
206	"	"	No. 431 to 439 W. Thirty-fourth street	do	do	
207	"	"	Gouverneur and Henry streets	do	do	
208	"	"	Chatham square, Mulberry to Worth street	do	do	
209	"	"	Nos. 64 and 66 King street	do	do	
210	"	"	South street to Pier No. 25 East river	do	do	
211	"	"	Thirty-fifth street, Eleventh to Twelfth avenue	J. R. Slattery	, contractor	
212	"	**	Fifty-sixth street, Seventh avenue to Broadway	R. Amerman	surveyor	
213	"	16	Eighth avenue, One Hundredth to One Hundred and Twenty-second street	Slattery & W	hite, contractors	

ments, under the Department of Public Works of the City of New York, for the and ending April 10, 1872.

WORK DONE.	PRICE	AMOUNT.	Amount.	AMOUNT DEDUCTED.	AMOUNT OF VOUCHER.	APPRO- PRIATION.
Brought forward	I 00	\$975,817 64 5,000 00		\$ 307,619 61	\$668,198 03	
3,000 yards filling	1 00	3,000 00	\$8,000 00	2,400 00	5,600 00	St. Reg., Grad'g,&c
3,250 yards rock	3 50 1 95	11,375 00 9,750 00				
3,000 feet curb and gutter 30,000 feet flagging	1 00 25	3,000 00 7,500 00	31,625 00	3,162 50	28,462 50	do.
130 yards earth 5,266 feet curb and gutter.	50 50	65 00 2,633 00	31,025 00	3,102 30	20,402 30	
20,704 feet flagging	20	4,140 80	6,838 80	2,051 64	4,787 16	do.
9,636 feet flagging	21	2,023 56		60 7 06	1,416 50	do.
1,500 lineal feet map front.	3	45 00	82 80		82 80	do.
1,413 lineal feet work	3 3	42 39 43 20				
444 lineal feet work	3	13 32 15 09	85 59		85 59	do.
503 lineal feet map front.	3	3 37	28 41		28 41	do.
198 1-3 lineal ft. map front	3	5 95	9 32		9 32	do.
5,000 yards earth 1,000 yards filling		5,000,00 1,750 00	6,750 00	2,025 00	4,725 00	do.
109 feet curb and gutter.	1 40 32	152 60 468 80			621 40	
1,875 feet flagging	32	600.00			600 00	do.
1,332 feet flagging	ŀ	426 26	-		426 26	do.
31 feet curb and gutter, 582 feet flagging		43 49 186 24	229 64		229 64	do.
462 feet flagging		147 84			147 84	do.
323 square feet bridge stone		581 40			581 46	
545 yards earth 2,691 yards filling		545 oc 26 91	t Ì			do.
1,693 feet curb and gutter	. 80	1,354 40	1,926 31	1,661 78	264 5	do.
371 lineal feet preliminar 311 lineal feet final 621 lineal feet map front	. 41	11 13 13 99 18 63	3 3 - 43 75	5	43 7	do.
1,506 yards rock 0,549 yards filling		3,012 00		2 4,463 89	10,415 7	do.
Carried forward		1.050,717 3		<u> </u>	\$726,725 8	

RETURN OF VOUCHERS issued and Work Done in the Bureau of Street Improve-Year commencing April 10, 1871,

No. оғ Voucher.	DATE.		FOR WHAT PURPOSE.	TO WHOM ISSUED.
	187	т		
214	Nov.		Ninety-third street, Fourth to Fifth avenue	M. Gavin, contractor
				· :
215	"	"	Sixty-seventh street, Eighth avenue to Hudson river	R. J. Cunningham, contractor
21 6	46	"	Sixty-third street, First avenue to East river	L. Cronin, contractor
217	"	"	One Hundred and Twenty-third street, Third to Fourth avenue	James Everard, contractor
218	"	-	Seventy-sixth street, Fifth avenue to East river	T S Montana
220	"		Seventy-third street, Third avenue to East river	
220				-
220		21	Laurens street, Canal to Waverley place	E. Doyle, surveyor
221	**	"	Eighty-third street, Third to Fifth avenue	Edward Boyle, surveyor
222		27	One Hundred and Fourth street, Fifth avenue to Harlem river	I. Picard, contractor
223	**	"	Seventy-fifth street, Eighth to Tenth avenue	John Harris, contractor
224	"	**	Avenue A, Seventeenth to Twenty-fourth street	M. Rabbitt, contractor
2 25	**	**	Sixty-third street, First avenue to East river	E. E. McLean, surveyor
226	"	"	Seventy-eighth street, Ninth avenue to Boulevard	W. V. Smith, surveyor
227	"	29	Laurens street, Canal street to Waverley place	T. J. Mulvy, contractor
		-		
228			Inspecting contract work	Inspector's Pay-roll for Novem- ber
229	"		Contingencies—Department of Public Works	G. Palmer, superintendent
230	Dec.	1	Ninety-ninth street, Eighth to Eleventh avenue .	John Brunsdon, contractor

ments, under the Department of Public Works of the City of New York, for the and ending April 10, 1872.

WORK DONE.	Price	Amount.	Amount.	Amount Deducted.	Amount of Voucher.	Appro- PRIATION.
Carried forward 400 yards earth	28 1	1,050,717 34 115 00 460 00		\$323,991 48	\$ 726, 7 25 86	
2,930 yards filling	80	1,172 00 480 00 960 00	3,187 00	956 10	2,230 90	St. Reg.,
1,000 yards earth	34½ 1 38	345 00 4,140 00	3,107 00	930 10	2,23. 92	Grad'g, &c.
3,000 yards rock 1,740 feet curb and gutter 13,400 feet flagging	80	1,39° 00 2,680 00	8,557 ∞	2,567 10	5,989 90	đo.
727 yards earth 469 yards rock 2,132 yards filling	88	159 94 412 72 21 32	.,33, 44		5.555	
1,762 feet curb and gutter.	70	1,233 40	1,827 38		1,279 17	do.
10,825 feet flagging	21	2,273 25		681 97	1,591 28	do.
27,000 yards filling	39	10,530 00		3,159 00	7,371 00	do.
2,949 lineal feet preliminary	5	147 45			147 45	do.
3,922 lineal feet preliminary 3,922 lineal feet work 12,022 lineal feet map front	3	274 54 431 42 360 60 12 00				
3,468 lineal feet work	41		1,078 56		1,078 56	
•			288 60	1	288 60	1
25,000 yards filling	70	17,500 00		5,250 00	12,250 00	do.
956 yards earth 2,000 yards rock	50 2 00	478 00	4,478 00	1,343 40	3,134 60	
11,286 3-4 feet flagging		2,370 22		711 07	1,659 15	do.
1, 103 lineal feet work 2,384 lineal feet map front	3	88 24 71 52	159 7 6		159 76 65 00	do. do.
1,300 lineal feet profile	5	65 00				
9,535 yards earth 4,671 feet curb and gutter 55,575 feet flagging	. 81	9,725 70 3,783 51 11,670 75	25,179 96	7,553 99	17,625 97	do.
1,094 working days	-	3,282 00			3,282 00	
Expenses visiting and ex amining works under con tract Dec. 1, 1870, to date	-!	285 00			285 00	Contin. Dep. Pub. W'ks
200 yards rock	8 50	1,700 00		510 ∞	1,190 00	St. Reg., Grad'g,&c.
Brought forward		1,133,626 52		\$347,272 32	\$786 354 20	[

				*	
No. of Voucher.	DATE.		FOR WHAT PURPOSE.	TO WHOM ISSUED.	
	1871.	_			
231	Dec.	2	One Hundred and Twenty-third street, Eighth to New avenue	David Tone, contractor	
232	"	"	Sixtieth street, Tenth avenue to Hudson river	W. J. Greene, contractor	
233	"	5	Sixty-fifth street, Ninth to Tenth avenue	Joseph Garry, contractor	
234	"	18	Sixty-sixth street, Tenth avenue to Boulevard	C. H. Reilly, contractor	
235	••	**	Eighty-fourth street, Eighth avenue to Boulevard	W. V. Smith, surveyor	
236	**	"	Sixty-sixth street, Tenth avenue to Boulevard	E. E. McLean, surveyor	
237	"	30	Eighty-seventh street, First avenue to East river	F. E. Towle, surveyor	
238	"	"	Eighty-eighth street, Eighth avenue to North river.	W. V. Smith, surveyor	
239	"	"	One Hundred and Thirty-seventh street, Fifth avenue to Eighth avenue	do do	
240	"	"	One Hundred and Thirty-fourth street, Fourth to Eighth avenue	M. Donahoe, contractor	
241	**	"	Inspecting contract work	Inspector's Pay-roll for December	
ı	1872. Jan.		Madison avenue, One Hundred and Fifth to One Hundred and Twentieth street	T. & J. D. Crimmins, contractors	
2		8	Lexington avenue, Sixty sixth to Ninety-sixth street	James Riley, contractor	
3	44	u	One Hundred and Thirty-third street, Fourth to Eighth avenue	J. S. Masterson, contractor	
4	"	"	One Hundred and Nineteenth street, Fourth to	Denis McCarthy, contractor	
5	"	"	One Hundred and Twenty-second street, Mount Morris square to Ninth avenue	do	
6	"	17	Seventy fifth street, Fifth avenue to East river		
	"			•	
7			Seventy-seventh street, First avenue to East river.		
8	"	23	Eighth avenue, Eighty-first to One Hundreth street	J. B. Devlin, contractor	
	i	- 1		Į	

ments, under the Department of Public Works of the City of New York, for the and ending April 10, 1872.

WORK DONE.	Price	Amount.	Amount.	Amount Deducted.	Amount of Voucher.	APPRO- PRIATION.
Brought forward		1,133,626 52		\$ 347,272 32	\$ 786,354 20	
3,000 yards filling	79	2,370 00		711 00	1,659 ∞	St. Reg.,
700 yards earth	334	236 25	•			Grad'g,&c.
2,322 yards rock 5,032 yards filling	1 35	3,134 70 1,559 92				
10,500 feet flagging	38	3,990 00	\$4,930 87	1,479 26 1,197 00	3,451 61 2,793 00	do. do.
645 yards earth	321	209 63				
12 yards rock	1 30	15 60				
1,015 feet curb and gutter	88	893 20		1		1
8,760 feet flagging	20	1,752 00	2 480 12	96	0.000.00	ĺ
2,185 lineal feet profile	5	109 25	2,780 43	861 13	2,009 30 109 25	
557 lineal feet work	11	61 27		į		
1,543 lineal feet map front.	3	46 29			_	
- 0 line at face and			107 56	i	107 56	do.
1,834 lineal feet work 4,367 lineal feet map front.	11	201 74 131 01				
4,307 inear icet map from:	3	131 01	332 75		332 75	do.
3,500 lineal feet profile	5	175 00	30 10		175 00	do.
2,720 lineal feet profile	5	136 00	·		136 ∞	do,
0 1 1	_			ĺ		
800 yards earth 5,000 yards filling	1 50	40 00 7,500 00				
5,000 yards minig	1 30	7,500 00	7,540 00	2,262 00	5,278 00	do.
672 working days	3 00	2,016 00			2,016 00	do.
6,343 yards rock	2 50	15,857 50	i			
1,154 yards filling,	I 50	1,731 00	·		ł	{
-,-5 + , a			17,588 50	5,276 55	12,311 95	do,
1,000 yards earth	10	100 00	-			
1,000 yards rock		1,000 00				1
2,000 yards filling	1 00	2,000 00	3,100 00	930 00	2,170 00	do.
				1	ſ	1 -
1,500 yards earth		1,500 00				
3,000 yards filling 5,000 feet curb and gutter	1 75	5,250 00				
22,000 feet flagging		5,500 00				
,		3,3	17,250 00	5,175 00	12,075 00	do,
3,000 yards rock	1 40	4,440 00		1,332 ∞	3,108 00	do.
9,500 yards filling	1 10	10,450 00		3,135 00	7,315 ↔	do.
4,860 yards filling	45	2,187 00	1	656 10	1,530 90	do.
2,000 yards rock	. 92	1,840 00		552 00	1,288 00	do.
8,999 yards filling	. 80	7,199 20		2,159 76	5,039 44	do.
Carried forward	.l	1,222,259 09	1	\$372,999 13	\$849,259 96	5

RETURN OF VOUCHERS issued and Work Done in the Bureau of Street Improve-Year commencing April 10, 1871,

-		-		
No. оғ Voucher.	DAT	E.	FOR WHAT PURPOSE.	TO WHOM ISSUED.
9	1872 Jan.		Eighth avenue, Fifty-ninth to Seventy-seventh street	James Slattery, contractor
10	Feb.		Inspecting contract work Madison avenue, One Hundred and Fifth to One Hundred and Twentieth street	
12 13	March April	30	Inspecting contract work One Hundred and Twenty-second street, Sixth to	*

ments, under the Department of Public Works of the City of New York, for the and ending April 10, 1872.

WORK DONE.	PRICE	AMOUNT,	Amount.	Amount Deducted.	Amount OF Voucher.	Appro- priation.
Brought forward 703 yards earth 533 yards rock 3,682 yards filling	25 1 00	1,222,259 09 175 75 533 00		\$ 372,999 13	\$849,259 96	
3,002 yards ming	49	1,804 18	\$2,512 93	753 88	1,759 05	St. Reg., Grad'g, &c.
468 working days	3 00	1,404 ∞			1,404 00	
1.344 yards rock 3,550 yards filling		3,360 ∞				
452 working days	1	1,356 00	8,685 ∞	2,605 50	6,079 50 1,356 00	
488 working days	3 00	1,464 00			1,464 00	do.
6,780 yards filling	1 10	7,458 00		2,237 40	5,220 60	do.
Totals		1,245,139 02		\$378,595 91	\$866,543 11	

RECAPITULATION.

\$1,245,139 02 143,803 85	Total amount of Surveyor's returns for the year ending April 11, 1872
\$1,101,335 17 234,792 06	Amount of work done during the year
\$866,543 11	Showing amount of certificates issued during the year
ows	F & O E 1 E C RARI

First Clerk in Bureau of Street Improvements.

STATEMENT

Showing Balance of Appropriations on hand April 11, 1871. Amount Drawn during the Year, and Balance available April 11, 1872.

TITLES OF APPROPRIATION BELONGING EXCLUSIVELY TO THIS BUREAU.	Balance available April 11, 1871.	Amount drawn during year ending April 11, 1872.	Balance available April 11, 1872.
Arching the Cut in Fourth avenue	\$70,787 36	*\$25,011 00	\$45,776 36
Coenties Reef-blasting and removing	11,756 00		11,756 00
Diamond Reef-blasting and removing	4,438 00		4,438 00
Flagging Sidewalks and Fencing Vacant Lots	3,206 16		3,206 16
Street Improvements	1,666 67		1,666 67
Total	\$91,854 19	\$25,011 00	\$66,843 19
Appropriations not Appertaining Exclusively to this Bureau.	,		
Contingencies—Street Department		\$285 oo	
Amount drawn on "Trust Account":			
Streets, regulating, grading, etc., "Trust Account"		866,258 11	
Total		\$866,543 11	

^{*} This sum was paid by the Comptroller without requisition from this Department.

[E. & O. E.]

E. G. BARROWS,

First Clerk in Bureau of Street Improvements.

LIST OF SPECIAL CONTRACTS issued in the Bureau of Street Imp	rovemen	ts,
under the Department of Public Works, for the year commencing	April 1	ıı,
1871, and ending April 11, 1872.		
Curb, gutter, and flagging No. 73 Christopher street	\$ 65	94
Curb, gutter, and flagging east side of Clark street, from Broome to		
Spring street	334	12
Curb, gutter, and flagging Nos. 52 and 54 Bank street	137	20
Curb, gutter, and flagging Howard street, from Broadway to Crosby street	446	46
-		
	\$983	72
Flagging Eleventh avenue, from Fifty-fourth to Fifty-fifth street	\$247	52
Crosswalk, Grand street, northeast corner of Ridge street	\$331	20
Crosswalk, Lawrence street, west intersection of Ninth avenue	302	40
Crosswalk, West Fortieth street, opposite Second German M. E. Church	302	40
Crosswalk, Twentieth street, east intersection of Second avenue	100	8 o
Crosswalk, Ninth avenue, north intersection of One Hundred and Twenty-		
fifth street	637	20
Crosswalk, Broadway, opposite No. 1196 to No. 1201	399	60
Crosswalk, Broadway and Lawrence street, four intersections	806	40
Crosswalk, Worth street, southwest to northwest corner of Chatham street	417	60
Crosswalk, Broadway, in front of No. 1186	532	8 o
Crosswalk, Broadway, opposite No. 1259.	399	6 o
Crosswalk, Madison street, opposite No. 173	307	8 o
Crosswalk, West Twenty-ninth street, opposite No. 39	302	40
Crosswalk, West street, opposite No. 274	667	8 o
Crosswalk, Twelfth street, opposite the Church of St. Ann	302	40
Crosswalk, Tenth avenue, north intersection of Manhattan street	734	40
Crosswalk, northwest to southwest corner of Rivington and Essex streets	237	60
Crosswalk, Congress street, southwest to southeast corner of Congress		
and Houston streets	141	30
Crosswalk, Congress street, northwest to northeast corner of Congress	_	
and King streets	128	70

Crosswalk, southeast to northeast corner of East Broadway and Jefferson street	\$ 349	20
Crosswalk, southeast to southwest, and southeast to northeast corner of East Broadway and Catharine street		20
·	\$8,002	80
Filling in south side of Sixty-second street, between Broadway and Ninth avenue	\$ 840	00
RECAPITULATION.		
Curb, gutter, and flagging	\$ 983	72
Flagging	247	52
Crosswalks	8,002	80
Filling in	840	00
Total	\$ 10,074	04
SCHEDULE A.		
STATEMENT of Work Finished during the Year.		
	en Finish	
Avenue A, Seventeenth to Twenty-fourth street—flaggingJuly	15, 187	71.
Eighty-seventh street, First avenue to East river—regulating, grading, curbing, guttering, and flagging	. 30, '	
Eighty-first street, Ninth avenue to Public Drive—regulating, grading, curbing, guttering, and flaggingSept	. 2 7, '	
Eighty-third street, Third avenue to Fifth avenue—curb, gutter, and flagging	y 9, '	٤.
Fifty-first street, Sixth avenue to Seventh avenue—regulating, grading, curbing, guttering, and flagging	g. 12, '	
Fifty-ninth street, First avenue to East river—regulating, grading,		٤.

	When	Fin	ished.
Fifth avenue, One Hundred and Thirtieth street to One Hundred and Thirty-eighth street—regulating, grading, curbing, guttering, and	T1		-0
flagging			1871
Fiftieth street, Fifth avenue to Madison avenue—flagging	June	30,	• •
One Hundred and Thirty-second street, Eighth avenue to Harlem river —regulating and grading	June	30,	
Fifty-first street, Broadway to Eighth avenue—flagging	July	8,	"
Eighty-seventh street, Drive to New avenue—regulating, grading, and curbing	July	12,	44
Twenty-second street, Eleventh avenue to Hudson river—regulating, grading, and curbing	July	3,	4.
Forty-sixth street, Eleventh avenue to Hudson river-regulating, grad-			
ing, curbing, guttering, and flagging	July	11,	"
Seventy-seventh street, Third avenue to Fifth avenue—flagging	July	31,	"
One Hundred and Thirteenth street, Third avenue to Harlem river-			
regulating, grading, curbing, guttering, and flagging	July	31,	"
Laurens street, Canal street to Waverly place—regulating and grading	July	31,	"
Seventy-fourth street, First avenue to Avenue A-flagging	Aug.	12,	"
One Hundred and Eighteenth street, First avenue to Avenue A—curb, gutter, and flagging	Aug.	28,	,,
First avenue, Sixty-fifth street to Eighty-sixth street—curb, gutter, and		,	
flagging		15,	44
One Hundred and Twenty-third street, Third avenue to Fourth avenue			
—flagging	Sept.	21,	"
Fifty-fifth street, Broadway to Eighth avenueflagging	Sept.	30,	"
Fifty-ninth street, Ninth avenue to Tenth avenue-flagging	Oct.	16,	"
Sixty-third street, First avenue to East river-regulating, grading, and			
curbing	Эct.	19,	44
Tenth avenue, Seventieth street to Eighty-first street—regulating, grading, and curbing.	Sept.	30,	"
Sixty-fifth street, Ninth avenue to Tenth avenue—regulating, grading, and curbing	Nov.	IO.	"
Sixty-sixth street, Tenth avenue to Boulevard—regulating, grading, and curbing		. 1	44
	iiov.	45,	
Seventy-second street, Eighth avenue to Hudson river—regulating, grading, and curbing.	Nov.	8,	

SCHEDULE B.

STATEMENT of Work in Progress April 10, 1872.

Sixty-eighth street—Eighth avenue to Hudson river.

Seventy-seventh street-First avenue to East river.

One Hundred and Nineteenth street-Fourth avenue to Eighth avenue.

One Hundred and Twenty-third street—Eighth avenue to New avenue.

One Hundred and Thirty-fourth street - Fourth avenue to Eighth avenue.

Sixtieth street-Tenth avenue to Hudson river.

Eighty-first street—Second avenue to East river.

Madison avenue-Eighty-sixth street to Ninety-ninth street.

Tenth avenue-Manhattan street to One Hundred and Fifty-fifth street.

Eighth avenue-Fifty-ninth street to Seventy-seventh street.

One Hundred and Fourth street-Fifth avenue to Harlem river.

Seventy-fifth street-Eighth avenue to Tenth avenue.

Eighth avenue-Eighty-first street to One Hundredth street.

Eighth avenue—One Hundredth street to One Hundred and Twenty-second street.

One Hundred and Twenty-second street-Mt. Morris square to Ninth avenue.

Sixty-seventh street-Eighth avenue to Hudson river.

One Hundred and Fourth, One Hundred and Fifth, and One Hundred and Sixth streets—Eighth avenue to Public Drive.

Lexington avenue—Sixty-sixth street to Ninety-sixth street.

Madison avenue—One Hundred and Fifth street to One Hundred and Twentieth street.

Seventy-third street-Eighth avenue to Hudson river.

Seventy-fifth street-Fifth avenue to East river.

Ninth avenue-Eighty-sixth street to One Hundred and Tenth street.

Eighty-sixth street—Eighth avenue to Public Drive.

Seventy-ninth street—Ninth avenue to Tenth avenue.

One Hundred and Fifth street-Third avenue to Harlem river.

One Hundred and Thirty-fifth street—Eighth avenue to Harlem river.

Sixty-ninth street-Drive to Hudson river.

Sixty-sixth street—Eighth avenue to Broadway.

Seventy-seventh street-Ninth avenue to Boulevard.

Ninety-ninth street—Eighth avenue to Eleventh avenue.

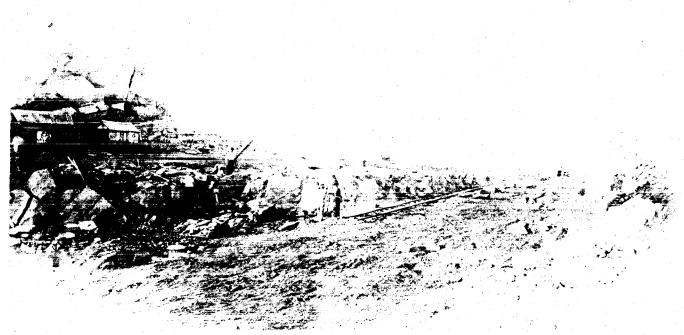
Ninety-third street-Fourth avenue to Fifth avenue.

One Hundred and Twentieth street-Third avenue to Sixth avenue.

Ninety-sixth street-Second avenue to Fifth avenue.

Seventy-first street-Fifth avenue to East river.

Seventy-sixth street—Fifth avenue to East river.



Rockwood, Phot.

Regulating and Grading Eighth Avenue.

LOOKING NORTH FROM 106TH STREET.

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REPORT OF THE SUPERINTENDENT

OF

LAMPS AND GAS.

REPORT OF THE SUPERINTENDENT OF LAMPS AND GAS.

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF LAMPS AND GAS,
NEW YORK, June 4, 1872.

GEO. M. VAN NORT, Esq.,

Commissioner of Public Works:

SIR—In compliance with the directions contained in your circular-letter of May 31, directing a report to be made in detail of all the expenditures incurred, and doings, etc., of the Bureau of Lamps and Gas, from the tenth day of April, 1871, to the tenth day of April, 1872, I respectfully submit the following statement:

I assumed the duties of Superintendent of this bureau on the 15th of January last, and received from my predecessor in office all the books, papers, and public property belonging to this office, from which I have taken the figures shown in the exhibits attached to this report. On taking charge

of this bureau I found the public lamps in a very bad condition, and, under your direction, I have endeavored, up to date, to put them in the best order possible, and I think they will now compare favorably with those of any other city. This has been done at a greatly reduced expenditure in comparison with the expense attached to this bureau for the same time last year, namely, from January I to April 10, 1871, during which time the expenditure was thirty-three thousand six hundred and forty-seven dollars and fifty-seven cents (\$33,647.57), and the corresponding time this year (January I to April 10), when the expense only was six thousand and eighty-seven dollars and eight cents (\$6,087.08).

In Exhibit A will be found the various accounts for which expenditures were made from April 10 to December 31, 1871, amounting to four hundred and sixty-nine thousand eight hundred and two dollars and fifty-nine cents (\$469,802.59); and in Exhibit B the accounts for which expenditures were made from January 1 to April 10, 1872, amounting to six thousand and eighty-seven dollars and eight cents (\$6,087.08), making a total expenditure for the year ending April 10, 1872, of four hundred and seventy-five thousand eight hundred and eighty-nine dollars and sixty-three cents (\$475,889.63). This sum covers the expenditures, for which vouchers have been drawn. There

are liabilities for lighting the public lamps, during the year 1871, amounting to about eight hundred and sixty-six thousand dollars. These claims have been presented to the Board of Audit, by the several gas companies, under the act of the Legislature creating this commission. There are also liabilities incurred for lighting the public lamps since January 1, 1872, the amount of which, however, cannot be arrived at, inasmuch as the bills for this work have not been presented by the gas companies since that date, and I have not been informed as to the exact price the companies propose to charge for lighting the public lamps during the present year. I confidently believe, however, that the cost of this work will be largely reduced from that of former years, inasmuch as conference between the presidents of the several gas companies and yourself, at which I had the honor to be present, the companies expressed a willingness to light the public lamps, during the present year, at about forty-two dollars and fifty cents per annum for each lamp. This will make a reduction of nearly twenty per cent. on price for lighting during the past year. opinion the lamps can be well lighted above rate, inasmuch as the duties on bituminous coal have been largely reduced, and the internal revenue tax on illuminating gas has been removed by the tariff and tax bill just passed Congress.

There are four gas companies now engaged in lighting the public lamps of the city and furnishing gas to its citizens. The New York Gaslight Company supplies gas to and lights all that portion of the city lying south of Grand street. They have 105 miles of gas-mains in their district, and light 3,262 street-lamps, exclusive of those in the public parks. The Manhattan Gaslight Company supplies gas to and lights all that portion of the city lying between Grand street and Thirty-fourth street. They have 180 miles of mains and light 6,050 street-lamps, exclusive of those in the parks. The Metropolitan Gaslight Company supplies gas to and lights all that portion of the city lying between Thirty-fourth and Seventy-ninth streets. They have ninety-five miles of mains, and light 3,919 street-lamps, exclusive of the parks. The Harlem Gaslight Company supplies gas to and lights all that portion of the city lying north of Seventy-ninth street. They have sixty-five miles of mains, and light 4,170 streetlamps.

By an act of the Common Council, approved April 30, 1868, permission was given to the New York Mutual Gaslight Company to lay their pipes or mains in all the streets, avenues, and public places throughout the city, for the period of thirty years, subject only to the same provisions which then governed the New York and Manhattan com-

panies. By virtue of this act this company have erected very complete and extensive works at Eleventh street, East river, and have laid several miles of gas-mains, extending in a great measure through the districts of the New York, Manhattan, and Metropolitan gas companies, and I learn that they propose to put down many miles during the ensuing summer. This company will be ready, in a few days, to furnish gas to its consumers.

There is also a company now organized under the title of the Union Gaslight Company, and I that they have commenced the erection of gas-works at Ninety-eighth street, East river. There is also a company organized under the act of the Legislature, passed March 14, 1871 (chap. 95), under the title of the Oxygen Gaslight Company, and they have erected small works in Fortyfirst street, near Eleventh avenue. This company has laid their mains from their works to and along Eighth avenue to Twenty-third street, and thence to Madison Square, under the authority of an assignment from the "Anthracite Gas Lighting and Heating Company of New York," to which was granted by the Common Council, September 17, 1863, the right to lay pipes and mains for conducting gas for illuminating, heating, and other through the streets, avenues, lanes, and other public places in the City of New York, for a period of fifty years. By means of this competition, and with the reduction of the duties on coal, and the removal of the internal revenue tax, it is to be earnestly hoped that illuminating gas, of a much better quality than now manufactured, will soon be furnished to the city and its citizens at lower rates than heretofore charged.

There are numerous resolutions now on file in this office directing gas-mains to be laid and lamps fitted up in various streets in the upper section of the city, and others are being passed at each meeting of the Common Council. In many instances the streets which are directed to be lighted have not been regulated or graded, nor has the curb and gutter been set, while some have been opened according to law, and hence private property. Frequent cases have occurred where the lamp-posts have had to be taken down and reset on account of the grading of the street, or setting the curb and gutter, thereby causing an unnecessary expenditure, or a useless waste of the public money. I have, therefore, deemed it inexpedient to recommend the fitting up of new lamps in cases such as above, and I would suggest that in future no new lamp-posts be fitted up in the upper or unimproved portion of the city, unless the streets should first be regulated and curbed and guttered, and houses erected thereon.

I desire, also, at this time, to call attention to

the resolutions adopted by the Common Council directing gas-lamps to be erected in front of churches, banking-houses, and other private buildings. By an ordinance of the Common Council each church edifice is entitled to have two gaslamps placed in front thereof; but this number has been so increased by subsequent resolutions that many of these institutions have six, and in some cases eight, lamps burning at the public expense. In March last a statement was prepared, in answer to a request of the Board of Aldermen, in which it was shown that the total number of extra lamps in front of churches, schools, hospitals, etc., was thirteen hundred and forty-eight, and that the annual cost of lighting these lamps amounted to seventy thousand dollars, and the same is continually increasing. It will readily be seen that this causes a very large item of expense. If necessity or convenience required such an outlay in the interests of the public service, it might possibly find some justification. I cannot look upon it, however, other than an unnecessary expenditure—serving no useful purpose, while it wastes a considerable sum of the public money. I would, therefore, suggest that some action be taken by the Common Council whereby this evil may be remedied, as to continue it will be an encouragement for increasing demands of a like character in the future.

I also submit herewith a time-table for lighting and extinguishing the public lamps for the year 1872, for which see Exhibit C.

All of which is respectfully submitted.

G. E. HILL,

Superintendent Lamps and Gas.

EXHIBIT A.

STATEMENT showing the various Accounts for which Expenditures were made from April 10 to December 31, 1871.

Lighting Public Lamps and Supplies for the same	\$379 ₇ 947	87	
Lighting Markets	1,586	62	
Paints and Painting Public Lamps	45,432	16	
Resetting and Repairing Lamp-posts	1,004	46	
Fitting up new Lamp-posts	165	00	
Repairing and Reglazing Public Lamps	29,932	50	
Repairing Lamp Irons	586	00	
Glass Street-signs	4,590	40	
Cocks, Tubes, and Burners	900	00	
Cartages	607	75	
United States Revenue Tax on Gas	1,178	51	
City Hall	304	45	
First District Police Court	36	65	
Fifth District Police Court	655	90	
Fifth District Civil Court	386	00	
Gate-house, Upper Reservoir	32	55	
Department of Public Works	1,096	11	
Fulton Market	682	3 2	
Tompkins Market	470	05	
Eighteenth Precinct Station-house	207	25	
			\$469,802 55
Carried forward to Exhibit B			\$469,802.55

EXHIBIT B.

STATEMENT showing the various Accounts for which Expenditures were made from January 1 to April 10, 1872.

Brought forward from Exhibit A		\$469,802 55
Painting Public Lamps	\$532 00	
Lighting Markets	679 98	· · · · · · · · · · · · · · · · · · ·
Repairing and Reglazing Public Lamps	2,600 00	
New Gas-lamps	2,081 25	
Boulevard Lamps	21 75	
Paints	29 10	
Boulevard Lamp-posts	102 00	7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -
Cartages	41 00	
. 1-		6,087 08
Total Expenditure for year ending April 10, 1872		\$475,889 63

EXHIBIT C.

Time-table for Lighting and Extinguishing the Public Lamps for the Year 1872.

MONTHS.	Date.	Begin to Light.	Begin to Extinguish.	MONTHS.	Date.	Begin to Light.	Begin to Extinguish.
		н. м.	н. м.			н, м.	н. м.
JANUARY	1	4.45	6.20	July	7	7 · 45	3.10
	7	5.00	6.20		14	7.45	3.10
	14	5.00	6.20		21	7 - 45	3.10
	21	5.15	6.15	İ	28	7.30	3.25
	28	5.15	6.15	August	4	7.30	3.40
FEBRUARY	4	5.30	6.00		11	7.15	3-45
	11	5.40	5 - 45		18	7.15	3.50
	18	5.45	5.40		25	6.45	4.15
	25	6.00	5.30	September	1	6.30	4.15
March	3	6.00	5.25		8	6.20	4.25
	10	6.15	5.10		15	6.15	4.30
	17	6.15	5.00		22	6.00	4.40
	24	6.30	4.50		29	5.45	4 · 45
	31	6.30	4.40	Остовек	6	5.40	5.00
April	7	6.40	4.20		13	5.30	5.00
	14	6.45	4.10		20	5.15	5.15
	21	7.00	4.00		27	5.00	5.15
	28	7.00	3 50	November	3	5.00	5.30
MAY	5	7.15	3.30		10	4.45	
	12	7.20	3.25		17		5 45
	19	7.30	3.15			4.40	5.45
	26	7.30	3.15	December	24 1	4.35	5.50
June	2	7.40	3.10	DECEMBER	8	4.35	6.00
Jene	9	7.40	3.10			4.35	6.15
	16	7.45	3.10		15	4.35	6.15
	23		-		22	4.40	6.15
		7 45	3.10		29	4 · 45	6.15
	30	7 - 45	3.10		30	4 • 45	6.20
					31	4 · 45	6.20

REPORT

OF THE

Superintendent of Streets.

REPORT OF THE SUPERINTENDENT OF STREETS.

NEW YORK, April 11, 1872.

To the Hon. George M. Van Nort,

Commissioner of Public Works

of the City of New York:

SIR—In obedience to your circular-letter of the 1st instant, I have the honor to respectfully submit the following report of the business transactions of the Bureau of Streets for the year ending April 10, 1872.

The work executed by this bureau is exhibited more particularly by examining the following streets and avenues which have been repaired:

Repairing Seventy-first street, from Ninth avenue to the Boulevard;

Repairing Eighty-second, Eighty-third, and Eighty-fifth streets, from Fifth avenue to Madison avenue;

Repairing One Hundred and Sixteenth street, from First avenue to East river;

Repairing One Hundred and Twenty-third street, from Second avenue to Avenue A;

Repairing One Hundred and Twenty-fourth street, from Third avenue to Eighth avenue;

Repairing One Hundred and Twenty-fifth street, from Second avenue to East river;

Repairing One Hundred and Thirtieth street, from Fifth avenue to Sixth avenue; Repairing One Hundred and Thirty-first street, from Fourth avenue to Sixth avenue;

Repairing One Hundred and Forty-first street, from Old Bloomingdale road to Boulevard;

Repairing One Hundred and Fifty-eighth street, from Tenth avenue to North river;
Repairing One Hundred and Fifty-second street, from Tenth avenue to North river;
Repairing Tenth avenue, from Breakneck Hill road, leading from Eighth avenue
to the Kingsbridge road;

Repairing Eighth avenue, from One Hundred and Twenty-fourth to One Hundred and Fifty-fifth street, at Harlem river;

Repairing Kingsbridge road;

Repairing Fort Washington road;

besides many other small repairs, such as the repairing of various drains and bridges, together with the building of large cesspools along the Eighth avenue, for the drainage of said avenue at its intersections with all those streets that open upon the Sixth Avenue Drive.

To do this work it has necessitated the employment of a large force of men and teams, as well as the use of large quantities of material, such as gravel, lime, stone-chips, stone, and lumber.

The work that has been done has met with the approval of the taxpayers along the line of all such repairs, and I have heard no complaint being made by those interested.

The Eighth avenue is mainly a pleasure drive, as at present arranged, all other avenues and roads being intended for a severer class of travel. The immense amount of use this avenue has, and the

speed with which it is traveled over, compels strict attention to its care and maintenance; men, carts, rollers, and scrapers are kept continually upon it, so that it shall at all times be in proper condition. It requires a constant regraveling, together with a thorough sprinkling, to satisfy those who use it for pleasure or convenience. I have spared no pains or labor upon this road.

Kingsbridge road, the great west-side outlet into Westchester county, from its incessant use, requires a constant care to preserve its road-bed in a fair condition. It cannot be expected that this road can be kept with the same careful top-dressing as the Eighth avenue, in consequence of its rocky and hilly nature. It has been repaired at various times during the year, in places, with broken stone, lime, stone-chips, and coarse gravel. It is now, however, undergoing a most thorough repair, that should last for years to come.

The Fort Washington or Depot road, leading from the Kingsbridge road at One Hundred and Seventy-seventh street, has been, during the year, placed in a fair condition; but, from the steepness of its grades, and the heavy rain-storms of the past year, it will again need a coating of fine chips or coarse gravel to make it satisfactory to those using it and the residents upon its line.

The following is a statement of the moneys that have been set apart for use by the bureau on the various roads and avenues, from the 11th day of April, 1871, to the 11th day of April, 1872, and the condition of the appropriation on said last-mentioned day:

The unexpended balance on the 11th April, 1871, was	\$13 88
The amount set apart by the Board of Apportionment for 1871 was	55,055 85
Total	\$55,069 73

The whole of this amount was expended in 1871. There was set apart by the Board of Audit, the first four months of the year 1872, for

Roads and avenues	\$10,000 00
Against which has been drawn	3,854 00
Leaving unexpended	\$6,146 00

Respectfully submitted.

E. A. MOORE,
Superintendent of Streets,

REPORT OF THE SUPERINTENDENT

OF

REPAIRS AND SUPPLIES.

REPORT OF THE SUPERINTENDENT OF REPAIRS AND SUPPLIES.

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF REPAIRS AND SUPPLIES,
NEW YORK, April 10, 1872.

George M. Van Nort, Esq.,

Commissioner of Public Works:

SIR—In accordance with the requirements of the Charter of 1870, and in compliance with your instructions, I herewith submit the following report of the business performed by this bureau for the year ending this day:

Statement A, from April 10, to December 31, 1871, shows the amount of expenditure, for which certified vouchers have been drawn, on account of appropriation of "Public Buildings, Construction and Repairs," and the appropriation for "Erecting a Monument in Calvary Cemetery."

Statement B, from January 1 to April 10, 1872, shows the amount of expenditures, for which certified vouchers have been drawn, on account of

appropriation of "Public Buildings, Construction and Repairs," the appropriation for "Supplies for and Cleaning Public Offices," the appropriation for "Stationery and Blank Books," the appropriation for "Printing for Departments," and the appropriation for "Erecting a Monument in Greenwood Cemetery."

Statement C shows the condition of the appropriation for "Public Buildings, Construction and Repairs," the appropriation for "Supplies for and Cleaning Public Offices," the appropriation for "Stationery and Blank Books," the appropriation for "Printing for Departments," and the appropriation for "Erecting a Monument in Greenwood Cemetery."

STATEMENT A,

Showing the Amount of Expenditures, for which Certified Vouchers have been drawn, against Appropriation of "Public Buildings, Construction and Repairs," and the Appropriation for "Erecting a Monument in Calvary Cemetery," from April 10 to December 31, 1871.

Fulton Market	\$2,402	00
Washington Market	3,316	50
Centre Market.	2,986	ю
Essex Market.	1,461	50
Jefferson Market	1,467	40
Eighteenth Ward Market	223	66
Department of Public Works	2,466	83
Corporation Attorney's Office	2,034	29
Corporation Counsel's Office	164	30
Tax Receiver's Office	9	8o
City Hall	564	76
Second District Civil Court	206	36
First District Police Court	367	49
Fourth District Police Court	283	75
	\$17,954 	68
Erecting Monument Calvary Cemetery	\$10,000	00

STATEMENT B,

Showing the Amount of Expenditure, for which Certified Vouchers have been drawn, on account of Appropriation of "Public Buildings, Construction and Repairs," the Appropriation for "Supplies for and Cleaning Public Offices," the Appropriation for "Stationery and Blank Books," and the Appropriation for "Printing for Departments," from January 1 to April 10, 1872.

	Public Buildings, Construction and Repairs.	Supplies for and Cleaning Public Offices.	Stationery and Blank Books.	Printing for Departm'nts.
First District Police Court	\$196 92	\$156 50	\$18 00	
Second District Police Court		97 12	28 05	\$40 00
Third District Police Court		169 23	29 00	32 50
Fourth District Police Court	153 81	36 26		
Fifth District Police Court		60 75	77 59	
First District Civil Court		39 70	• • • • • • • • • • • • • • • • • • • •	
Second District Civil Court	138 91	101 47	97 00	52 50
Third District Civil Court		39 75	106 90	
Fourth District Civil Court		32 50	62 00	81 50
Fifth District Civil Court	35 96	61 50		107 50
Sixth District Civil Court		19 50	15 ∞	10 00
Seventh District Civil Court		171 00	58 50	
Eighth District Civil Court		107 50	33 50	
Ninth District Civil Court		60 68		
Union Market	98 7 5			
Department of Public Works	19 30	1,465 00	304 53	243 30
City Hall		2,949 30		
Receiver of Taxes	92 06			
Corporation Attorney		54 65	28 80	156 00
Clerk's Room, Board of Aldermen	244 99	553 33		
Clerk's Room, Common Council	207 28			
Corporation Counsel		102 00		
Board of Assessors		33 75		
Public Administrator		50 95	76 ∞	38 00
Croton Department		20 00	223 53	238 75
Corporation Yard		6 00		
Collector of Assessments			22 50	24 00
Pipe Yard, Twenty-fourth street	1		16 00	
• •	\$1,187 98	\$6,388 44	\$1,196 90	\$1,024 05

STATEMENT C,

SHOWING the Condition of Appropriation for "Public Buildings, Construction and Repairs," the Appropriation for "Supplies for and Cleaning Public Offices," the Appropriation for "Stationery and Blank Books," the Appropriation for priation for "Printing for Departments," and the Appropriation for "Erecting a Monument in Greenwood Cemetery."

Public Buildings, Construction and Repairs-		
Appropriation	\$25,000 00	
Expenditures	1,187 98	\$23,812 02
Supplies and Cleaning Public Offices—		
Appropriation	\$25,000 00	
Expenditures	6,388 44	\$18,611 56
Stationery and Blank Books—		
Appropriation	\$10,000 00	
Expenditures	1,196 90	\$8,803 10
Printing for Departments—		
Appropriation	\$16,667 oo	
Expenditures	1,024 05	\$15,642 95
Erecting Monument Greenwood Cemetery		\$9,100 00

Respectfully submitted.

WILSON SMALL,
Sup't Bureau of Repairs and Supplies.

REPORT

OF THE

Collector of Assessments.

REPORT OF THE COLLECTOR OF ASSESSMENTS.

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF COLLECTION OF ASSESSMENTS,
NEW YORK, April 11, 1872.

Hon. George M. Van Nort,

Commissioner of Public Works:

SIR—In compliance with your requirement, I have the honor to report the transactions of this bureau for the fiscal year ending with the 10th day of April, 1872, as follows:

On April 11, 1871, there were one hundred and ninety-six (196) assessment lists, of all classes, remaining in this office; one hundred and eleven (111) new lists have been received for collection since that date; eight have been paid in full; one, the assessment for Opening Riverside Park, was by you recalled from this bureau. The balances on one hundred and ninety-two (192) were returned to you in arrears, the legal limitation of one year from the date of entry in this office,

having expired thereon; and one hundred and six now remain for future disposal.

Daily deposits are made in the city treasury of all moneys collected by this bureau, to the credit of three accounts, viz.: Assessment Fund, Street Improvement Fund, and Interest on Assessments.

Under the title of Assessment Fund are embraced all moneys received for the opening, widening, and extending of streets, avenues, public places, etc.

Street Improvement Fund includes the collections on various accounts, which, to facilitate the business of this office, are subdivided into three classes, in the order following, viz.:

- 1st. Sewers, drains, basins, and culverts.
- 2d. Regulating, grading, setting curb and gutter stones, flagging and laying crosswalks in streets, avenues, etc., and filling sunken lots.
- 3d. Laying pavements in the carriageway of streets, avenues, etc.

Interest on Assessments includes all moneys reserved for interest, and is a penalty of seven per cent. per annum imposed upon all assessments remaining unpaid at the expiration of sixty days from the date of entry in this office.

The transactions for the fiscal year, and the present condition of the different accounts, are exhibited in the following statements, under their respective titles.

OPENING, WIDENING, EXTENDING, ETC.

	-	April 11. Number of Lists on file in the Office at this date. April 10. Number of Lists received for collection	•
27 24		" 10. Recalled by the Commissioner of Public Works " 10. Number of Lists returned in Arrears	"
3	•••	" 11. Number of Lists remaining in the office at this date.	**

ACCOUNT CURRENT.

1871.	Aprìl	11.	Balance, being amount uncollected at this date	\$1,392,885	8q	
1872.	April	10.	Error in footing two Assessment Lists	156	oð	
• • •	"	10.	Amount received for collection.	3,312,835	ÓO,	\$4,705,876 80
"	"	10.	Amount of Cash paid to J. J. Bradley, Chamberlain	\$485,926	88	ф4, /05 , 6/0 60
. "	"	10.	Amount of Cash paid to F. A. Palmer, Chamberlain	40,824	00	
"	"	10.	Amount recalled by the Commissioner of Public Works.	2,809,238	00	
"		10.	Amount of error in footing an Assessment List	10	00	
**	"	10.	Amount returned in Arrears uncollected	1,157,721	92	4 402 700 go
				,		4,493,720 80
"	"	II.	Balance, being amount uncollec-	ted at this d	ate	\$212,156 00

SEWERS, DRAINS, BASINS, AND CULVERTS.

1871.	April 11.	Number	of Lists	on file in the office at this date	55	
1872.	April 10.	"	"	received for collection	26	Q.,
"	" IO.	"	"	collected in full	4	01
"	" 10.	"	"	returned in Arrears	5 x	
						-55
"	" 11.	Number	of Lists	remaining in the office at this date.		26

ACCOUNT CURRENT.

1871.	April 11.	Balance, being amount uncollected at this date	\$682,213 91	
1872.	April 10.	Amount received for collection.	428,517 66	Pr 110 821 58
"	" 10.	Amount of Cash paid to John J. Bradley, Chamberlain	\$427,836 13	\$1,110,731 57
"	" 10.	Amount of Cash paid to F. A. Palmer, Chamberlain	21,560 16	
"	" 10.	Amount reduced by order of the Supreme Court	258 80	
"	" "	Amount returned in Arrears uncollected	389,105 18	838,760 27
"	" 11.	Balance, being amount uncollected	ed at this dat	

REGULATING, GRADING, SETTING CURB AND GUTTER, ETC.

1871.	April	l 11.	Number	of Lists	on file in the office at this date	4
1872.	April	10.		. 66	received for collection	7 101
"	"	10.	"	"	collected in full	
"	"	10.	"	"	returned in Arrears	48
"	"	11.	Number	of Lists	remaining in the office at this date	53

ACCOUNT CURRENT.

1871.	April 11.	Balance, being amount uncollected at this date \$302,984 83	
1872.	April 10.	Amount received for collection. 260,950 82	Orfo 005 65
"	" 10.		\$563,935 65
"	" 10.	Amount of Cash paid to F. A. Palmer, Chamberlain 6,526 49	
"	" 10.	Amount vacated by order of the Supreme Court 155,641 88	
"	" 10.	Amount returned in Arrears, uncollected 203,076 48	490,303 64
"	" 11	. Balance, being amount uncollected at this date	\$73,642 OI
	1	PAVEMENTS.	
1871.	April 11.	. Number of Lists on file in the Office at this date	e. 74
1872.	April 10.	" received for collection	
"	" IO.	returned in Arrears	— 98 •••• 74
"	" II.	. " remaining in the office at this c	late 24
		ACCOUNT CURRENT.	
1871.	April 11.	Balance, being amount uncollected at this date \$1,411,318 99	
1872.	April 10.	. Amount received for collection. 450,473 71	St. 861, 702, 70
1872.	" 10	D. Amount of Cash paid to J. J. Bradley, Chamberlain \$531,692 21	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
"	" 10	A. Palmer, Chamberlain 10,004 27	
"	" 10	the Supreme Court 514,433 °3	
"	" 10	Amount returned in Arrears, uncollected	1,697,126 38
"	" 11	. Balance, being amount uncollected at this date.	\$164,666 32
			·

INTEREST ON ASSESSMENTS.

1872.	April 10.	Amount	collected	on	this	account	upon As	ssessment	s of	all
		classe	s during t	he i	fiscal	year endi	ng this d	ate, and	paid-	
•	To John	J. Bradley	, Chambe	rlain		<i>.</i>	• • • • • • •	\$23	3,584	54
	To Franc	eis A. Palr	ner Cham	berl	ain				.641	OI

Total..... \$26,226 45

The following statement exhibits the transactions of this bureau in aggregate form, and includes accounts of all descriptions, with the total balance displayed by the ledger of this bureau at the date of this report.

ACCOUNT CURRENT.

1871.	I. April II.		Balance, being amount of un- collected Assessments at this				
			date	\$3,789,403	53		
1872.	**	10.	Amount of error in footing two Assessment Lists	156	00		
46	"	10.	Amount of new Lists received for collection	4,452,777	19		
"	.66	10.	Amount of Interest collected on Assessments	26,226		\$ 8,268,563	
"		10.	Amount of Cash paid to J. J. Bradley, Chamberlain			φο,200,503	17
"	"	10.	•	81,556	83		
	"	10.	Amount recalled by the Commissioner of Public Works.	2,809,238	00		
	"	10.	Amount reduced by order of the Supreme Court	258	80		

1872.	April	10.	Amount vacated by order of the Supreme Court	\$670,074 91	
"	"	10.	Amount of error in footing an Assessment List	10 00	
	"	10.	Amount returned in Arrears, uncollected	2,390,900 45	\$7,546,137 54
"	"	II.	Balance, being amount of uncoments at this date		. \$722,425 63

Except for the necessary stationery and blanks, and for cleaning the offices, this bureau has incurred no expense to the city treasury.

Respectfully submitted.

JOHN A. KENNEDY,

Collector of Assessments.

REPORT OF THE SUPERINTENDENT

OF

INCUMBRANCES.

REPORT OF THE SUPERINTENDENT OF INCUMBRANCES.

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF STREET INCUMBRANCES,
OFFICE, No. 237 BROADWAY,
NEW YORK, June 8, 1872.

GEO. M. VAN NORT, Esq.,

Commissioner of Public Works:

DEAR SIR—In compliance with your communication of the 31st May, ultimo, I respectfully submit the following report, showing the operations and expenses of the Bureau of Incumbrances during the year ending April 10, 1872.

ten months and two days	357
Number of incumbrances removed by parties complained of, and by inspectors	
of this bureau, same time	357
Expenses of bureau (salaries) from April 10, 1871, to January 10, 1872, \$11,370, as follows:	
One Superintendent, nine months, at \$3,000 per annum. \$2,350 00	
Five Inspectors, nine months, at \$1,800 each per annum. 6,750 00	
Two Inspectors, nine months, at \$1,500 each per annum. 2,270 00	
	70 00

Expenses of bureau (salaries) from January 10, 1872, to February 12, 1872, \$842.50, as follows:
One Superintendent, one month and one day, at \$3,000 per annum
Three Inspectors, one month and one day, at \$1,800 per annum. 465 00
One Inspector, one month and one day, at \$1,500 per annum
Expenses of bureau from April 10, 1871, to February 12, 1872 \$12,212 50
Number of complaints received from February 12, 1872, to April 10, 1872 639
Number of notices served on parties complained of, from February 12, 1872, to April 10, 1872
Number of removals by parties complained of, from February 12, 1872, to
April 10, 1872
Number of cases unattended to
Expenses of bureau from February 12, 1872, to April 10, 1872, \$1,595, as follows:
One Superintendent, one month and twenty-eight days, at \$3,000 per annum \$483 24
Three Inspectors, one month and twenty-eight days, at
\$1,800 per annum 870 00
One Inspector, one month and twenty-eight days, at \$1,500
per annum
RECAPITULATION.
Complaints received from April 10, 1871, to April 10, 1872, inclusive 996
Obstructions removed. 858
Cases unattended to
Expenses of bureau (salaries) from April 10, 1871, to February 12, 1872, ten months
Expenses of bureau (salaries) February 12, 1872, to April 10, 1872, two months
Expenses of bureau (salaries) from April 10, 1871, to April 10, 1872 \$13,807 50

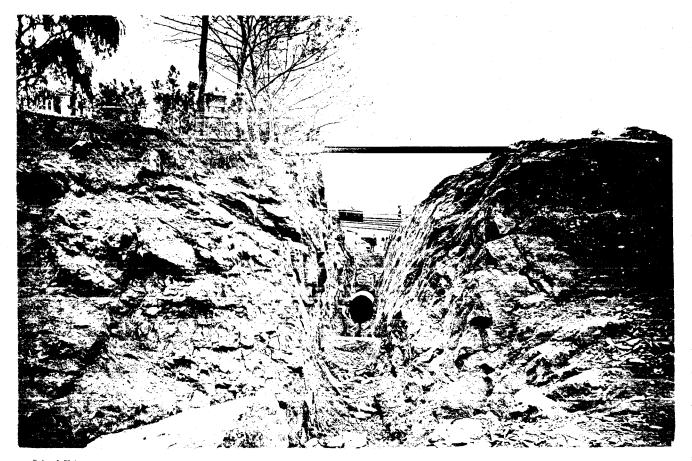
I might also add, that while the additional duties of receiving applications for permits for posts, awnings, and other temporary obstructions of streets, and notifying owners and others to repair sidewalks and vault-covers, and receiving applications to cut down trees, have been imposed upon this bureau, the expenses of the same will be materially reduced.

E. B. SHAFER,
*Superintendent of Incumbrances.

REPORT

OF

Engineer in Charge of Sewers.



Rockwood, Phot.,

\$45 Broadway, N. Y.

REPORT OF ENGINEER IN CHARGE OF SEWERS.

OFFICE OF ENGINEER IN CHARGE OF SEWERS, DEPARTMENT OF PUBLIC WORKS,

June 10, 1872.

Hon. George M. Van Nort,

Commissioner of Public Works:

SIR—In compliance with your instructions of the 31st inst., I beg leave to submit a report of all the transactions of the Bureau of Sewers, from the 10th day of April, 1871, to the 10th day of April, 1872.

Notwithstanding the almost general suspension of the public works during the past year, in consequence of the financial embarrassment of the city treasury, twelve and one-sixth miles of sewer, fifty-one hundred and fifty-seven feet of underground drains, and one hundred and eighty-four receiving-basins have been built.

During the period referred to, the work of cleaning and repairing was continued without interruption, and a large number of alterations of old sewers, with a view to remedy their defects, have been made, the most extensive of which were the rebuilding of portions of the main sewer

in Seventy-fourth street, between Fourth and Fifth avenues, and the alterations for the relief of the main sewer in Eighth avenue, between Thirty-fifth and Thirty-ninth streets, and of the adjacent intersecting streets. The drainage of the district lying between Thirty-fifth and Forty-second streets, and between the Sixth and Ninth avenues, previous to 1858, was through Eighth avenue to Twenty-third street and to the Hudson river. During every rain storm the cellars on Eighth avenue, from Thirty-fifth street to Thirty-ninth street, and in the intersecting cross streets, for a considerable distance, were flooded, and for many years this state of things was allowed to exist until the Common Council, in 1857, ordered the construction of a new sewer. The plan adopted by the late Croton Aqueduct Board changed the direction of the flow of the Eighth avenue sewer, so that it ran in the opposite direction, from Thirty-fifth to Thirty-ninth street; thence through Thirty-ninth street to Ninth avenue to Fortieth street; thence to and emptying into a sewer then built in Tenth avenue, discharging into the main outlet-sewer in Forty-second street.

The work of reconstruction under this plan was commenced in the Fall of 1858. The sewer in Thirty-ninth street, between Eighth and Ninth avenues, receives the drainage from some one hundred and thirty acres of surface, contributed by three branches at Eighth avenue, one running

northerly, receiving the sewage from some fortyseven acres, exclusive of the overflow from the Forty-second street distributing reservoir; the other two branches, one in Thirty-ninth street, to Sixth avenue, and the other in Eighth avenue, running southerly to Thirty-fifth street, discharge the drainage of eighty-three acres.

This extensive alteration was finished in 1862, and failed to afford the relief promised, as is shown by the following petition signed by owners of lands on the Eighth avenue and side streets representing that their cellars were still flooded.

"NEW YORK, June 13, 1871.

" To the Commissioner of Public Works:

"We, the undersigned, owners and tenants of property on Eighth avenue, between Thirty-fifth and Thirty-ninth streets; also on the cross streets, both east and west of Eighth avenue, have been annoyed for the last fourteen or fifteen years with the water rushing from the main sewer up our connections and into our basements (whenever we have a heavy, sudden fall of rain), filling them to the depth of two, and sometimes three feet, causing great destruction to merchandise, and injuring our property, and being deleterious to our health—all the filth of the water-closets and privies washing in the sewer and then washing up our connections into our basements, making our dwellings and stores perfect stench-pools. We have sought redress from the Croton Board, and they promised to relieve us for the last five or six years, but no relief having come, we now invite your sympathy and power."

On a survey and examination of the whole sewerage district being made, the cause of the overflowing of the Eighth avenue sewer was ascertained to be owing to the incapacity of the main sewer in Thirty-ninth street, from the Eighth to Ninth avenue, and of the sewer in Tenth avenue, from Fortieth to Forty-second street, to carry off the amount of water contributed by the branch sewers of the large area drained.

To remedy these defects, and to save the expense of rebuilding the entire main sewer, from the Forty-second street outlet at Tenth avenue to Thirty-fifth street and Eighth avenue, a new sewer of the proper capacity for draining the entire area included in this district was constructed from the main outlet sewer in Forty-second street, through Tenth avenue to Fortieth street, intercepting the Fortieth and Forty-first street sewers, and leaving the original sewer in Tenth avenue to drain the area it was originally intended to drain. the old sewer in Fortieth street, between Eighth and Ninth avenues, was then extended across the Eighth avenue, taking in the old Eighth avenue sewer running north, and the Fortieth street sewer, east of Eighth avenue.

Some forty-seven acres of surface drainage was by this alteration, cut off from entering the main sewer at Thirty-ninth street, and was carried through the old Fortieth street sewer to the main sewer between the Ninth and Tenth avenues,—which has capacity enough, by its increased inclination to Tenth avenue,—to carry off all water entering it down to Tenth avenue, where it is received into the new sewer of the proper size,

built on the east side of Tenth avenue, and carried thence to the main sewer in Forty-second street.

No complaints have since been made, although very heavy rains have tested the sufficiency of these alterations.

The district, therefore, may be considered as permanently relieved, and, although the cost of the work was great, the improvement will save the city, in future, from heavy damages for loss of property, to say nothing of the great sanitary benefit it will prove to the neighborhood. (See Sketch No. 1.)

Many complaints were made after heavy rains, by residents on Thirty-third street, between Second and Third avenues, and on Third avenue, from Thirty-first to Thirty-fourth street, of the overflow, through the house-connections, into the cellars of buildings.

On examination, the evil complained of was found to be caused by the incapacity of the Thirty-third street sewer, east of Second avenue; this was remedied, at a very trifling cost, by constructing an overflow from the sewer in Thirty-third street into the old sewer in Second avenue, which empties into the Thirty-fourth street sewer.

This alteration has permanently relieved the Thirty-third street sewer of all surplus water during heavy storms. (See Sketch No. 2.)

The sewer in West Twelfth street for several

years has been, from occupants of dwellings on the line of the sewer, from the river as far back as Greenwich street, a source of constant complaint, as well as a very heavy expense to the city to clean and keep in repair.

This sewer was built on made ground, which has gradually settled to some six feet below low water at the outlet, and for five hundred feet back. The sewer, being at times filled by the tide, prevents the solid matter from being discharged into the river, which accumulated until the sewer was entirely obstructed, and the only outlet for the sewage then was through the house connections into the cellars of buildings, until relieved by the removal of the entire deposit, at great expense.

A new sewer is now being constructed, on the proper grade, from the westerly side of West street to the Hudson river, about five hundred feet in length, which will permanently relieve this neighborhood from the great inconvenience and damage the flooding of the old sewer caused. (See Sketch No. 3.)

The defects in the old system of sewers are being remedied as speedily as a thorough examination can be made. Many special cases of partial obstruction, that have existed in sewers for years, have been removed, and the sewers permanently relieved, at a trifling expense; but many cases still exist, to which the remedy will be applied, when brought to my notice.

During the past year, a large amount of necessary repairs have been made, and a number of sewers have been rebuilt, some of which are very expensive and should have been done years ago.

Among these were the rebuilding of the sewers in Second avenue, between Seventy-eighth and Seventy-ninth streets; a large portion of sewer in Fifty-sixth street, between Fifth and Sixth avenues, and between Tenth and Eleventh avenues; and in Forty-sixth street, between First avenue and the East river, besides several others of less extent.

These sewers had to be taken up and relaid, owing partly to defective materials and workmanship, and partly to the fact of their being laid before the street was graded.

The original surface of the ground being at a greater depth below the established grade than it was possible to put the sewer, the weight of the filling when thrown in, to grade the street, had the effect of crushing or otherwise injuring the sewer.

While the first cost of laying is less before a street is filled in, the ultimate cost will be much greater, both in repairs and cleaning, and for the reasons just stated, the sewers will have to eventually be taken up and relaid.

The custom of contracting for the removal of sewer-dirt from the sewers, at fixed prices per load, was found to be about the worst way, for the cunning workman would leave all obstructions that could accumulate dirt for future removal, and

it was only a matter of time when the sewer would be again stopped up.

I would suggest that in future a contract be made, at a gross sum, for cleaning the sewers of the entire city, for then it would be for the interest of the contractor to leave no obstructions that could be removed that might cause future accumulations.

The material alterations being made to improve the old system of sewers and remedy its defects, and the removal of obstructions and rubbish left in the sewers by plumbers, when opened for the purpose of making house-connections, should greatly diminish the expense of keeping the sewers clean, many that had to be cleaned constantly are now clean, and will remain so.

UNDERGROUND DRAINS.

The Legislature of 1871 passed a law by which this Department, when directed by the City Sanitary Inspector, could construct permanent underground drains, following the old water courses to the nearest sewer found low enough, or to the adjacent river.

Under the law, contracts have been made to drain the stagnant water covering the blocks between Seventy-third and Eightieth streets, and First and Fifth avenues. Work was commenced last summer and prosecuted with the utmost vigor,

during the winter, and notwithstanding that rock had to be excavated for the drain at a depth of twenty-three feet below the surface for several hundred feet in length, the stagnant water, ten feet in depth, has been drained off, and the permanent drains are being built, and when completed, this district will be entirely free from dampness, and the health of the whole neighborhood greatly improved.

A large number of sunken lots have already been drained, and on the completion of surveys that are being made, a large portion of the upper part of the city requiring to be drained will be ready to put under contract.

The accompanying Tables (Nos. 1 and 2) show the location and sizes of the sewers in progress and the amount of work done during the year.

The extent of sewerage in this city is shown in Table No. 3; there being 1,520,759 lineal feet, or 288 miles, and 119 feet of sewer and 3,787 receiving-basins.

The Schedules (Nos. 1 to 8), exhibit in detail the expenditures of this bureau during the past year.

All of which is respectfully submitted.

STEVENSON TOWLE, Engineer in Charge of Sewers.

TABLE No. 1.

Work done during the Year commencing April 10, 1871, and ending April 10, 1872, on Sewers contracted for prior to 1871.

4 - 1941 19												
		LINEAL FEET SEWERS CONTRACTED FOR.					Lineal Feet Sewers Built.					_
SEWERS.	CONTRACTORS	Brick.	18-inch Pipe.	15-inch Pipe.	12-inch Pipe.	Total.	Brick.	18-inch Pipe.	15-inch Pipe.	12-inch Pipe.	TOTAL.	REMARKS.
Between Fifty-first and Fifty-sixth streets, and Ninth avenue and Hudson river	Oscar Taylor, March 1, 1867; relet to John Hackett, October 25, 1867; and relet to P. F. Maginn, August 6,	•										
Ninth avenue, between Fifty-fifth and Fifty-seventh streets; and Fifty-seventh and Fifty-eighth streets, between Ninth	1868	835	920	1,395	4,185	7,335	290	••••		732	1,022	Finished.
and Eleventh avenues First avenue, between Thirty-fourth and	Thomas Matthews, May 9, 1868			2,145	1,635	3,780				111	111	Finished.
Thirty-ninth streets, with branches Seventy-fifth street, from Tenth avenue to and through Ninth avenue to Eighty-	Robert Cunningham, May 22, 1869	1,175	260	35	930	2,400		:		62	62	Finished.
Forty-third street, between Third and Lexington avenues; Forty-fourth and Forty-fifth streets, between Second avenue and East river; and Fifth avenue,	Jeremiah Crowley, May 22, 1869	2,575	5	315	10	2,905	1,020			208	1,228	Unfinished.
between Forty-ninth and Fiftieth streets.	Robert Cunningham, August 30, 1869		66	439	1,715	2,220			·	106	106	Finished.

	•	
•	_	
	ъ	

Third avenue, between Ninety-third and One Hundred and Seventh streets Seventeenth street, from Hudson river to and through Eleventh avenue; and	Wm. H. McCarthy, August 30, 1869	2,317	880	1,140	2,873	7,210	742	43	898	603	2,286	Finished.
Twenty-third street to near Tenth avenue; and Seventeenth street, from Eleventh avenue to and through Tenth avenue to Fourteenth street, with branches		6,140					887			.0		Unfinished.
Fourth avenue, between Fifteenth and Seventeenth streets	Terence G. O'Brien, June 27, 1870; relet to M. Noonan, September		3 7 0		2,700	9,210	007	••••	-	48	935	O ministrea.
Fiftieth street, between Broadway and	15, 1870		290	185		475			92		92	Finished.
Eighth avenue	B. F. Brady, June 27,	305				305	155			49	204	Finished.
One Hundred and Twenty-fourth street, between Third and Fourth avenues	-					3.5	55		j	,,	•	
	H. Masterson, June 27,	955				955	125		,	24	149	Finished.
Madison avenue, between Seventy-fourth and Eighty-sixth streets	Patrick Farley, June 27,							İ	1			i
Seventy-sixth street, between First and	1870			2,290		2,290		• • • •	239	157	396	Finished.
Third avenues	Patrick Farley, June 27,	1,340	.,			1,340	665			42	707	Finished.
Eighty-first street, between Third and Fourth avenues, with branches in		-731				-134-	5			•	, ,	
Fourth avenue Eighty-ninth street, between East river	Patrick Farley, June 27,			1,165		1,165		••••	518	21	539	Finished.
and Second avenue; branches in Avenue A, First avenue, Eighty-seventh												
and Eighty-eighth streets	F. Stollmeyer, July 11,											77 6
Avenue A, between Seventy-fourth and Seventy-ninth streets, with branches in Seventy-fifth, Seventy-sixth, Seventy-		3,935	145	2,330		6,410	1,740	92	1,076	••••	2,908	Unfinished.
seventh, and Seventy-eighth streets	Robert McChristie, July		į									
Sixty-fifth street, between Eighth and Ninth avenues	II, 1870		140	2,225	• • • • • • • • • • • • • • • • • • • •	3,625	765	97	1,669	51	2,582	Unfinished.
	August 4, 1870		670	300		970	204			44	248	Finished.
Thirty-seventh street, between Third and Lexington avenues	P. J. Casey, August 9,											
	1870		ا ا	35	365	, 400			٠	128	128	Finished.

TABLE No. 1—(Continued).

Work done during the Year commencing April 10, 1871, and ending April 10, 1872, on Sewers contracted for prior to 1871.

		LINEAL FEET SEWERS CONTRACTED FOR.					Li					
SEWERS.	CONTRACTORS.	Brick.	18-inch Pipe,	15-inch Pipe.	12-inch Pipe.	Total.	Brick.	r8-inch Pipe.	15-inch Pipe.	12-inch Pipe,	Total.	Remarks.
Second avenue, between One Hundred and Twenty-fifth street and Harlem river, with branches. One Hundred and Fourth street, between Third and Fourth avenues; and One Hundred and Fifth street, between Second and Third avenues. Fourth avenue, between Eighty-eighth and Ninetieth streets, with branches;	John H. McCabe, October 10, 1870			970		1,510	3 470		314	57	374 506	Finished. Finished.
and in Lexington avenue, between Eighty-eighth and Eighty-ninth streets. Delancey street, between Cannon street and East river	10, 1870	525		1,005	400		276	920	482		2,116	Unfinished.
Church street, between Fulton and Morris streets	M. Noonan, October 10,	-/3			705	,			••••			
Seventy-first street	Frank Stollmeyer, Octo- ber 10, 1870	800	670		ĺ	1,565	•		672	··	1,342	Unfinished.

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Fourth avenue, between One Hundred and Ninth and One Hundred and Fifteenth streets, with branches		1,605	••••	2,445		4.050	1,602		2,430	T = 8	4 100	Finished.
Between Sixtieth and Sixty-sixth streets, and between Avenue A and Third avenue	Lutz & McKim, October	2,780		2,840		6,120		516	,,,,	785		Finished.
Fourth avenue, between One Hundred and Twenty-fifth and One Hundred	10, 1870	2,700	500	2,040	••••	0,120	1,010	510	2,192	705	5,303	rinished.
and Thirty-second streets, with branches Avenue A, between Seventy-ninth and	A. Dowdney, November 3, 1870	710	80	880		r,670	7 29	9	844	57	1,639	Finished.
Eighty-sixth streets, with branches Laurens street, between Broome and	S. Ruth, Jr., November 3, 1870.	805	520	3,575		4,900	404		2,564	105	3,073	Finished.
Spring streets, and basins in Laurens street, between Canal and Fourth streets	M. Gavin, November 3,	450			,	450				6	6	Finished.
Forty-fourth street, between Second and Third avenues	Robert McChristie, November 3, 1870			590		590		•	344		344	Unfinished.
One Hundred and Thirteenth street, be- tween Third avenue and Harlem river	Smith & Noonan, November 3, 1870	2,015				2,015	1,873			7 3	1,946	Finished.
Fifty-sixth street, between Second and Third avenues	Patrick Farley, November 23, 1870			590		590			47 ¹		471	Finished.
Ninety-second, Ninety-third, and Ninety- fourth streets, between Fourth and Fifth avenues, with branches in Madison ave-												
nue	John H. McCarthy, November 23, 1870		••••	3,075		3,075			1,402	92	1,494	Unfinished.
First avenue, between Sixty-ninth and Seventy-fourth streets, with branches, and in Second avenue, between Sixty-	,											
eighth and Seventy-first streets	M. Smith & B. Noonan, December 12, 1870	1,320	1,330	75°		3,400	967	305	917	153	2,342	Unfinished.
Eighty-eighth street, between Second and Third avenues, and in Ninety-first street, between Second and Fourth ave-					, .							
nues, with branches	J. D. Moore, December		1,390	990	· · · · · · ·	2,380		720	951		1,671	Unfinished.
·		35,507	9,156	33,469	15,533	93,665	15,987	3,097	18,485	5,208	42,777	

TABLE No. 2.

Work done during the Year commencing April 10, 1871, and ending April 10, 1872, on Sewers contracted for during 1871.

							1.				<u></u>	
	CONTRACTORS.	Lineal Feet Sewers Contracted for.					Lineal Feet Sewers Built.					
SEWERS.		Brick.	18-inch Pipe.	15-inch Pipe.	12-inch Pipe.	TOTAL.	Brick.	18-inch Pipe.	15-inch Pipe.	12-inch Pipe.	TOTAL.	REMARKS.
One Hundred and Tenth street, from Harlem river to Fifth avenue, to One Hundred and Sixteenth street to Seventh avenue, with branches in Second, Fourth, and Fifth avenues, One Hundred and Eleventh, One Hundred and Thirteenth, and One Hundred and Twentieth streets. One Hundred and Ninth street, between Fourth avenue and Harlem river Second avenue, between One Hundred and Eleventh and One Hundred and Sixteenth streets; One Hundred and Fifteenth streets; One Hundred and Fifteenth streets; and in One Hundred Third avenues; and in One Hundred	William Baird, May 16, 1871		150	50	600 60		2,447 . 2,178			102	2,549	Unfinished. Finished.
and Twenty-seventh street, between Second and Third avenues	Robert McChristie, May 27, 1871		770	2,580	15	3,365		770	2,878	21	3,669	Finished.
Hundred and Twenty-ninth street	Patrick Farley, May 25, 1871		275	850	40	1,165			1,166	53	1,219	Finished.

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Third avenue, between Eleventh and Twelfth streets	Robert McChristie, May										166	Finished.
Seventy-second street, between Avenue A	27, 1871 Ethan A. Allen, June 26,	390	• • • •	• • • •	••••	390	166		****	••••		
Water street, between Gouverneur and Iackson streets	1871	•••		230	••••	230	••••	••••	233	••••	233	Finished.
Hudson street, between Bank and West	1871	• • • •	••••	785		7 ⁸ 5	• • • •	••••	7 86	26	812	Finished.
Twelfth streets, and between Horatio and Gansevoort streets	Terence G. O'Brien, June 24, 1871	• - • -		480	••••	480		••••	485		485	Finished.
Fifth avenue, between Thirty-second and Thirty-third streets	Joseph Garry, June 22,			210		210		,	210		210	Finished.
Sixty-first and Sixty-second street, be- tween Boulevard and Ninth avenue	Patrick Farley, August				610	610				716	716	Finished.
One Hundred and Fifteenth street, be- tween Avenue A and First avenue			36	564		600			599		599	Finished.
One Hundred and Twenty-third street, between Avenue A and Second avenue	Robert Montgomery and	,,,,	30	304	••••	000			399		399	
One Hundred and Eighth street, from		900				900	930	••••			930	Finished.
Hudson river to Boulevard, to One Hundred and Tenth street, to Tenth avenue, with branches in Boulevard,												
One Hundred and Sixth, and One Hundred and Seventh streets		3,055	510	1,395		4,960			••••	• • • •		No work done.
Sixty-fifth street, between First and Third avenues	Robert McChristie, August 10, 1871			590	550	1,140			349	,,,,	349	Unfinished.
				390	330	-,			349		317	
Between Seventy-third and Eighty-first streets, and between First and Fifth avenues, underground drains	Edward Bradburn, August 19, 1871	Brick and Stone 6,190		•	240	6,430	Brick and Stone 3,223	206	40	••••	3,649	Unfinished.
Fortieth street and Eighth avenue, and Tenth avenue from Fortieth street to	i											
Forty-second street, alterations and repairs							745	••••			745	Finished.

SEWERS.	CONTRACTORS.	LINEAL FEET SEWERS CONTRACTED FOR.					Li					
		Brick.	r8-inch Pipe.	15-inch Pipe.	12-inch Pipe.	Total.	Brick.	18-inch Pipe.	15-inch Pipe.	12-inch Pipe.	Total.	Remarks.
Seventeenth street, between Ninth and Tenth avenues (private)	John Mulholland, Oc-		***************************************								800	Finished.
Park place, between Greenwich street and Hudson river (private)	James Everard, December 22, 1871	79º 515				79°	794				420	Unfinished.
Corlears street, between Monroe and Grand streets	J. H. Keyser, January									45	45	Finished.
Between Fifty-fourth and Fifty-fifth streets, and between Fourth and Madison avenues, underground drains	Lewis Baker, October 2,											Finished.
Between Fifty-sixth and Fifty-seventh streets, and between Fifth and Madison avenues, underground drains				••••							442	r misned.
Between Fifty-seventh and Fifty-eighth streets, and between Fifth and Madison	1871	••••		••••							235	Finished.
avenues, underground drains Between Seventy-seventh and Seventy-	Lewis Baker, October 2,			•							264	Finished.
eighth streets, and between First and Second avenues, underground drains	T. & J. D. Crimmins, December 29, 1871	•									567	Finished.
		31,820	1,741	7,734	2,115	43,410	10,903	1,156	6,746	1,063	21,376	

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TABLE No. 3.

Exhibiting the extent of Sewerage in the City of New York to April 10, 1872.

			,			Lineal Feet of Sewerage.	Number of Receiving Basins for Surface Drainage.
		_	_		of the Croton	366,129	969
Contra	cted for	by Croton	Aqueduct I	Departmen	t in 1849	16,165	58
	"	44	"	"	1850	61,579	173
	"	44-	"	"	1851	63,009	157
	"	"	44	"	1852	65,689	196
	"	"	"	"	1853	73,542	256
	"	"	44	"	1854	73,519	244
	"	44	"	"	1855	38,679	110
		44			1856	49,280	121
	"	44		"	1857	10,430	19
		"		"	1858	36,258	98
	• •	44	"	44	1859	41,867	90
	"	"	"	"	1860	37, 188	73
		44	"	"	1861	29,303	69
	44	"	44	"	1862	19,653	89
	• •	"	44	"	1863	20,916	54
		44	44	"	1864	23,542	64
	"	"	"	"	1865	39,025	108
	"	"	"	. "	1866	37,164	54
	"	44	44	"	1867	105,221	120
	44	"	.66	"	1868	82,679	104
	"	"	**	44	1869	86,201	146
	**	"	"	"	1870	79,568	231
Contr	acted for	by Depart	ment of Pu	ıblic Worl	s in 1871	64,153	184
	Total l	ength (288	miles and	19 feet)		1,520,759	3,787

SCHEDULE No. 1.

STREET IMPROVEMENT FUND.

(Requisitions drawn on the Comptroller, \$1,091,061.56.)

EXPENDITURES.

Sewers in Fifty-fifth and Fifty-eighth streets, between Eighth and Ninth		
avenues	\$3,387	00
Sewer in Madison street, between Pike and Birmingham streets	51	00
Sewer in Seventy-fifth street, from Tenth avenue, etc	3,638	60
Outlet sewer in Seventeenth street	12,050	36
Sewer in Avenue A, between Seventy-fourth and Seventy-ninth streets, etc	3,157	70
Sewer in Forty-fourth street, between Second and Third avenues	3,284	
Sewers between Seventy-ninth and Eighty-eighth streets, and between Fourth and Fifth avenues.	919	
Sewer in One Hundred and Thirteenth street, between Third avenue and Harlem river.	3,194	10
Sewer in Avenue A, between Seventy-ninth and Eighty-sixth streets	5,740	00
Sewer in Third avenue, between Ninety-third and One Hundred and Seventh streets.	11,511	50
Sewer in First avenue, between Sixty-ninth and Seventy-fourth streets	6,234	90
Sewer in Madison avenue, between Forty-sixth and Fifty-ninth streets.	319	20
Sewer in Fourth avenue, between Seventy-eighth and Seventy-ninth streets	514	60
Sewer in Fifty-sixth street, between Second and Third avenues	1,933	33
Sewer in Fourth avenue, between Eighty-eighth and Ninetieth streets.	2,062	
Sewer, between Sixtieth and Sixty-sixth streets, etc	7,445	90
Outlet sewer in Eighty-ninth street	4,128	25
Sewer in Forty-eighth street, between Ninth and Tenth avenues	8,705	84
Sewer in Seventh avenue, between Greenwich avenue and Fifty-ninth		
street	31,877	75
Sewer in Seventy-second street, between Third and Fourth avenues	16,321	85

Sewer in First avenue, between One Hundred and Twenty-first and	
One Hundred and Twenty-fourth streets	\$3,008 00
Sewer in Sixteenth street, between Ninth avenue and Hudson river	4,626 00
Sewer in University place, between Eleventh and Twelfth streets	955 75
Sewer in Eighty-first street, from Ninth avenue, etc	11,057 30
Sewer in First avenue, between Fifty-fifth and Fifty-sixth streets, etc	1,795 00
Sewer in road or Broadway, between One Hundred and Twenty-ninth	
and One Hundred and Thirtieth streets	1,899 20
Sewer in Sixty-seventh and Sixty-eighth streets, between Fourth and	6
Fifth avenues.	6,120 23
Sewer in Avenue A, from Fifty-fourth street, etc	6,744 60
Sewer in Sixty-fifth street, between Fourth and Fifth avenues	1,324 28
Sewer in Water street, between Fulton and John streets	1,563 45
Sewer in Ninth avenue, between Seventeenth and Eighteenth streets	1,201 60
Sewer in One Hundred and Twenty-seventh street, between Fifth and	
Sixth avenues.	1,222 79
Sewer in Seventh avenue, between Greenwich avenue and Fifty-ninth	1,456 80
street.	1,450 80
Sewer in One Hundred and Thirteenth street, between Third avenue and Harlem river.	3,575 25
Sewer in One Hundred and Twenty-first street, between First avenue	3/3:3 3
and Avenue A	111 60
Sewer in Madison avenue, between Seventy-fourth and Eighty-sixth	
streets	2,599 98
Sewer in Fiftieth street, between Broadway and Eighth avenue	2,167 14
Sewer in Second avenue, between One Hundred and Twenty-fifth street	
and Harlem river	1,278 44
Sewer in Eighty-first street, between Third and Fourth avenues	2,069 03
Sewer in Seventy-fifth street, from Tenth avenue, etc	2,820 65
Sewer in Avenue A, between Seventy-fourth and Seventy-ninth	
streets, etc	4,816 35
Sewer in Fourth avenue, between One Hundred and Ninth and One	
Hundred and Fifteenth streets.	6,173 76
Sewer in Forty-third street, between Third and Lexington avenues	3,011 40
Sewer in One Hundred and Twenty-sixth street, between Third and	100 6-
Fifth avenues	388 60

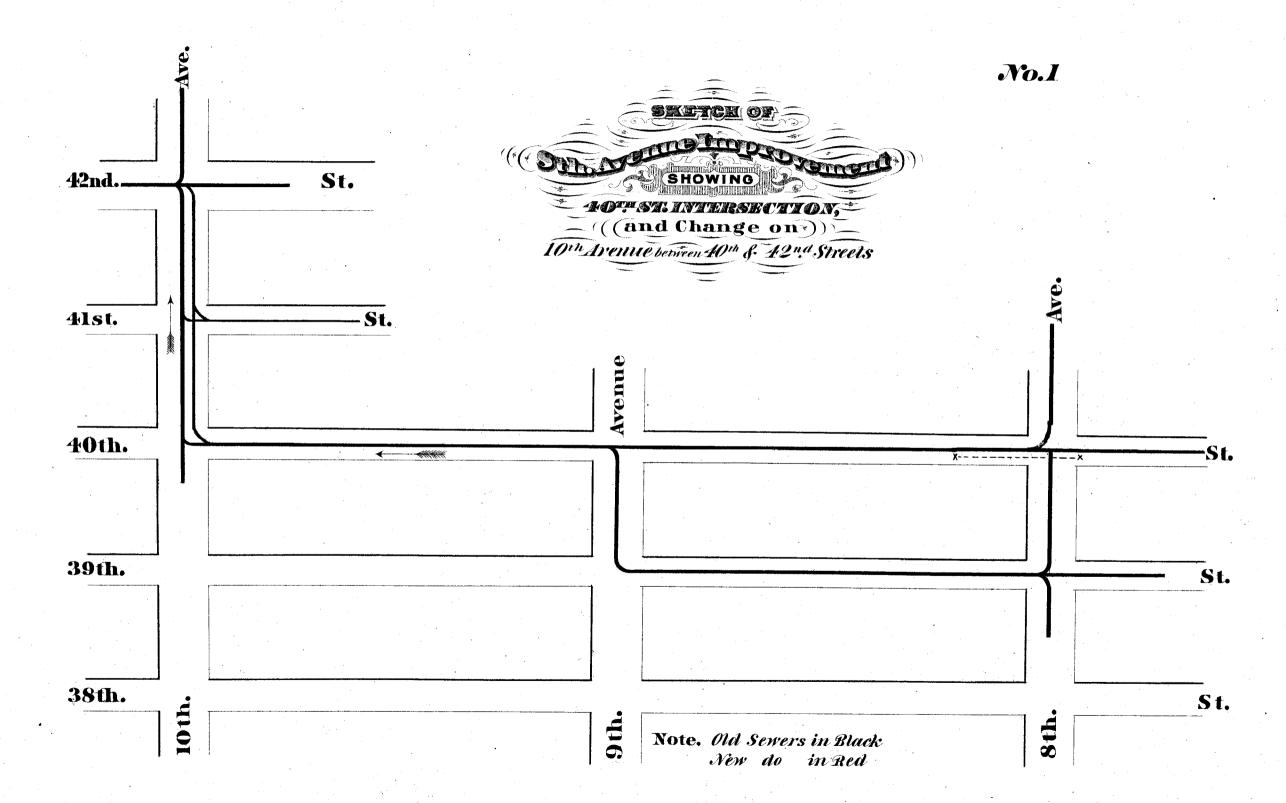
Sewer in Seventy-second street, between Third and Fourth avenues	\$679	бо
Sewer in First avenue, between Thirty-fourth and Thirty-ninth streets	4,549	30
Sewer in Avenue A, between Seventy-ninth and Eighty-sixth streets	4,814	10
Sewer in One Hundred and Fourth street, between Third and Fourth avenues	7,297	29
Sewer in One Hundred and Twenty-fourth street, between Third and Fourth avenues	1,662	50
Sewer in Ninth avenue, between Fifty-fifth and Fifty-seventh streets	18,092	55
Sewer in Forty-second street, between Eighth and Ninth avenues	501	40
Sewer in First avenue, between Fifty-fifth and Fifth-sixth streets	51	80
Basin on southeast corner of One Hundred and Twenty-fifth street and Sixth avenue	687	00
Basin on northwest corner of One Hundred and Twenty-fifth street and Seventh avenue	604	50
Basin on northeast corner of One Hundred and Twenty-fifth street and Sixth avenue	713	00
Basin on northwest corner of One Hundred and Twenty-fifth street and Sixth avenue	619	00
Basin on southwest corner of One Hundred and Twenty-fifth street and Sixth avenue	691	50
Sewer in First avenue, between Forty-ninth and Fiftieth streets	3,222	70
Sewer in Christie street, between Delancey and Rivington streets	1,330	00
Sewer in First avenue, between Houston and Third streets	2,215	20
Sewer in First avenue, between Thirty-ninth and Fortieth streets	2,830	60
Sewer in One Hundred and Eleventh street, between First and Fourth		
avenues	1,255	36
Sewer in Delancey street, between Cannon street and East river	8,230	48
Sewer in First avenue, between Sixty-ninth and Seventy-fourth streets,	6,024	73
Sewer in Fourth avenue, between Eighty-eighth and Ninetieth streets.	2,421	30
Sewer in Thirty-seventh street, between Third and Lexington avenues,	1,924	30
Sewer in Fifty-sixth street, between Second and Third avenues	2,909	17
Sewer in Eighty-eighth street, between Second and Third avenues	5,602	45
Sewer, between Sixtieth and Sixty-sixth streets, etc	6,350	75
Sewer in One Hundred and Twenty-seventh street, between Fifth and		
Sixth avenues	193	60

second, and One Hundred and Thirty-third streets, between Fifth		
and Sixth avenues	\$532	60
Sewer in Ninth avenue, between Seventeenth and Eighteenth streets	75	20
Sewer in Seventy-fifth street, from Tenth avenue, etc	5,444	95
Sewer in Ninety-second, Ninety-third, and Ninety-fourth streets, be-		
tween Fourth and Fifth avenues	4,448	50
Sewer in Eighty-ninth street, between Second and Fourth avenues	3,382	40
Sewer in Eighty-first street, between Third and Fourth avenues	2,021	78
Sewer in Fourth avenue, between One Hundred and Ninth and One Hundred and Fifteenth streets	8,962	04
Sewer in Fifth avenue, between Eighty-ninth and One Hundred and	0,902	ОZ
Eighth streets	26,564	77
Outlet sewer in Sixty-sixth street.	87,523	
Sewer in Fifth avenue, between Forty-sixth and Fifty-ninth streets	6,105	
Sewer in Avenue A, between Seventy-fourth and Seventy-ninth streets	4,685	_
Sewer, between Sixtieth and Sixty-sixth streets, etc	5,329	
Sewer in Seventy-sixth street, between First and Third avenues	3,868	
Sewer in Madison avenue, between Seventy-fourth and Eighty-sixth		
streets	1,080	8 o
Sewer in One Hundred and Eleventh street, between First and Fourth		
avenues	355	20
Sewer in Forty-eighth street, between Ninth and Tenth avenues	341	20
Sewer in Tenth avenue, between Manhattan and Lawrence streets	5,061	49
Sewer in Second avenue, between One Hundred and Eleventh and One		
Hundred and Sixteenth streets	7,371	35
Sewer in Avenue A, between Seventy-ninth and Eighty-sixth streets	11,252	50
Sewer in Laurens street, between Spring and Broome streets	1,831	20
Sewer in Fourth avenue, between Eighty-eighth and Ninetieth streets	2,823	10
Sewer in Clinton street, between Stanton and Rivington streets	77	80
Sewer in Water street, between Fulton and John streets	45	40
Sewer in Oak street, between James and Oliver streets	3 2	8 o
Sewer in Clinton street, between Houston and Stanton streets	79	20
Sewer in First avenue, between Sixty-ninth and Seventy-fourth streets	9,063	60
Sewer in Delancey street, between Cannon street and East river	2,895	51

Sewer in First avenue, between Forty-ninth and Fiftieth streets	\$ 61	60
Sewer in Avenue A, between Seventy-first and Seventy-fourth streets	5,276	18
Sewer in Fourth avenue, between One Hundred and Twenty-fifth and		
One Hundred and Thirty-second streets	7,372	40
Sewer in Seventy-fifth street, from Tenth avenue, etc	4,684	05
Sewer in First avenue, between One Hundred and Twenty-first and One Hundred and Twenty-fourth streets	135	00
Sewer in Sixty-fifth street, between Fourth and Fifth avenues	138	20
Sewer in Fifth avenue, between Forty-sixth and Fifty-ninth streets	358	80
Sewer in Eighty-first street, from Ninth avenue, etc	369	40
Sewer in Avenue A, from Fifty-fourth street, etc	219	40
Sewer, between Sixtieth and Sixty-sixth streets, etc	3,546	97
Sewer in Sixty-first street and East river, etc	962	20
Outlet sewer in Sixty-sixth street	2,833	20
Sewer in Forty-fourth street, between Second and Third avenues	3,004	96
Sewer in Second avenue, between One Hundred and Eleventh and One Hundred and Sixteenth streets	2,892	44
Sewer in Avenue A, between Seventy-fourth and Seventy-ninth streets.	3,546	
Sewer in Ninety-second, Ninety-third, and Ninety-fourth streets, be-	2,0,	Ĭ
tween Fourth and Fifth avenues	4,594	80
Sewer in Eighty-ninth street, between East river and Second avenue	12,410	13
Sewer in Sixty-seventh and Sixty-eighth streets, between Fourth and Fifth avenues	215	00
Sewer in Fourth avenue, between Eighty-eighth and Ninetieth streets.	4,969	30
Sewer between Sixtieth and Sixty-sixth streets, and between Avenue A		
and Third avenue	4,472	65
Sewer in Sixty-fifth street, between Eighth and Ninth avenues	1,930	60
Sewer in One Hundred and Ninth street, between Fourth avenue and Harlem river	4,601	3 3
Sewer in Fifty-fifth street, between Sixth avenue and Broadway	225	40
Sewer in Fifth avenue, between Eighty-ninth and One Hundred and Eighth streets.	1,058	80
Sewer in Seventy-fifth street, from Tenth avenue, etc.	, -	
Sewer in First avenue, between Sixty-ninth and Seventy-fourth streets.	4,473 6,453	
•		_
Sewer in Forty-third street, between Third and Lexington avenues	2,150	75

Outlet sewer in Seventeenth street	\$10,561 67
Sewer in Duane street, between William and Rose streets	419 80
Sewers between Fifty-first and Fifty-sixth streets, etc	12,812 36
Sewers between Sixtieth and Sixty-sixth streets, etc	5,380 20
Sewer in Fifty-sixth street, between Second and Third avenues	1,437 73
Sewer in Seventy-sixth street, between First and Third avenues	3,393 32
Sewer in One Hundred and Ninth street, between Fourth avenue and	
Harlem river	5,712 38
Sewer in First avenue, between Sixty-ninth and Seventy-fourth streets,	3,260 43
Sewer in One Hundred and Twenty-third street, between Avenue A	
and Second avenue	4,721 43
Sewer in Eighty-eighth street, between Second and Third avenues	5,832 40
Outlet sewer in One Hundred and Tenth street, etc	41,914 17
Sewer in Fourth avenue, between Eighty-eighth and Ninetieth streets	3,318 00
Sewer in Seventy-fifth street, from Tenth avenue, etc	14,870 80
Sewer in Thirty-seventh street, between Third and Lexington avenues.	1,736 55
Sewer in One Hundred and Fourth street, between Third and Fourth	
avenues, etc	3,771 91
Sewer in Thirty-sixth street, between Third and Lexington avenues	1,762 6 0
Sewer in Sixty-first and Sixty-second streets, between Boulevard and	
Ninth avenue	3,879 75
Sewer in Eighty-ninth street, between Second and Fourth avenues	2,847 60
Sewer in Avenue A, between Seventy-first and Seventy-fourth streets, etc	4,485 04
Sewer, between Sixtieth and Sixty-sixth streets, etc	5,428 85
Sewers in Ninety-second, Ninety-third, and Ninety-fourth streets, be-	
tween Fourth and Fifth avenues	5,456 50
Sewer in Fiftieth street, between Broadway and Eighth avenue	3,461 74
Sewer in Ninth avenue, between Fifty-fifth and Fifty-seventh streets,	
etc	22,269 62
Sewer in Eighty-first street, between Third and Fourth avenues	5,143.98
Sewer in Second avenue, between One Hundred and Twenty-fifth street	
and Harlem river	2,793 61
Sewer, between Sixtieth and Sixty-sixth streets, and between Avenue A	0
and Third avenue	2,381 40
Outlet sewer in Eighty-ninth street	13,668 90

between First and Fifth avenues.	\$4,688	11
Sewer in Seventeenth street outlet.	6,827	
Outlet sewer in One Hundred and Tenth street	17,176	
Sewer in Thirty-sixth street, between Third and Lexington avenues	80	-
Sewer in Thirty-seventh street, between Third and Lexington avenues,	80	
,	30	20
Sewer in One Hundred and Ninth street, between Fourth avenue and Harlem river	2,516	64
Sewer in One Hundred and Fourth street, between Third and Fourth		•
avenues	314	00
Sewer in First avenue, between Sixty-ninth and Seventy-fourth streets.	3,908	98
Sewer in Third avenue, between Ninety-third and One Hundred and		
Seventh streets	9,533	30
Sewer in Avenue D, between Third and Fourth streets	713	51
Sewer in Avenue D, between Fourth and Fifth streets	354	75
Sewer in Fourth avenue, between Eighty-eighth and Ninetieth streets	4,344	55
Sewer in Avenue A, between Seventy-fourth and Seventy-ninth streets,	4,645	55
Sewer in Eighty-eighth street, between Second and Third avenues	6,990	95
Salaries	106,220	34
Inspectors on sewers	54,324	00
One business wagon.	425	00
Keeping horse, repairing wagon, etc	420	00
Stackpole & Bro., repairing instruments	220	25
Perris & Browne, insurance maps	197	50
Benoit & Wood, tracing cloth	90	00
J. T. Barnard & Son, coal for Rivington street yard	21	50
A. T. Stewart, muslin	12	87
Transportation (engineers)	812	85
William Nelson, Jr., labor on pipe storage	2,417	58
William Nelson, Jr., contractor for furnishing vitrified stoneware sewer		
pipe	22,309	5 <u>I</u>
William Nelson, Jr., contractor for furnishing vitrified stoneware sewer		
pipe	15,053	42
William Nelson, Jr., contractor for furnishing vitrified stoneware sewer	TO 700	~6
pipe	19,739	90



William Nelson, Jr., contractor for furnishing vitrified stoneware sewer pipe.	\$20,534 29
William Nelson, Jr., contractor for furnishing vitrified stoneware sewer pipe	
William Nelson, Jr., contractor for furnishing vitrified stoneware sewer pipe	
•	\$1,091,061 56
•	
SCHEDULE No. 2.	,
SEWERS, REPAIRING AND CLEANING.	
Amount appropriated for the year 1871	\$198,899 68
Moneys received for sewer permits and deposited with Comptroller	28,577 00
	\$227,476 68
Expended	148,063 86
Leaving balance of	\$79,412 82
EXPENDITURES.	
Pay roll, mechanics and laborers	. \$16,368 00
Foster & Holland, cleaning basins and culverts	57,593 11
John H. Keyser, repairs, etc	28,749 95
Francis J. Sigerson, cleaning sewers	. 44,690 00
John Monks, repairing sewer in Fourteenth street, East river	223 70
Mathew Murray, extra work on basin northwest corner of Fourteentl	h

\$148,063 86

SCHEDULE No. 3.

NEW STONE BRIDGE AT KINGSBRIDGE.

Unexpended balance appropriation, 1870	
Leaving balance of	\$41,311 00
EXPENDITURES. Pay roll, inspectors new stone bridge	\$1,664 00

SCHEDULE No. 4.

SEWER REPAIR STOCK

Amount appropriated, 1871	\$100,000	00
Expended	_	
Leaving balance of	\$73,464	95
expenditures,		
	1	
Thomas & J. D. Crimmins, repairs on sewers	\$ 3,290	89
Thomas & J. D. Crimmins, repairs on sewers	996	14
Thomas & J. D. Crimmins, repairs on sewers	618	62
Thomas & J. D. Crimmins, rebuilding sewer and basin corner of		
Fortieth street and Eighth avenue	3,072	09
Lewis Baker, extending sewer in Forty-eighth street and Hudson river,	3,410	31
Patrick Gibney, repairs to sewer corner of Eighth avenue and Thirty-		
ninth street	1,283	00
Patrick Gibney, rebuilding outlet sewer Seventy-fourth street, between		
Third and Madison avenues.	13,864	00
en en en en en en en en en en en en en e	\$26,535	05

SCHEDULE No. 5.

SEWERS, REPAIRING.

Amount appropriated, 1872	\$20,000 00
Expended	3,270 32
Leaving balance of	\$ 16,729 68
EXPENDITURES. Thomas & J. D. Crimmins	\$ 3,270_32
· 	

SCHEDULE No. 6.

SEWERS, CLEANING.

Amount appropriated, 1872..... \$20,000 oo

SCHEDULE No. 7.

SEWER PIPE FURNISHED CONTRACTORS.

Total amount received and paid to Comptroller, for sewer pipe furnished to contractors, between April 10, 1871, and April 10, 1872..... \$7,553 69

SCHEDULE No. 8.

SURVEYOR'S FEES ASSESSABLE ON PROPERTY BENEFITED.

Total amount charged on assessment lists for surveyor's fees....... \$60,336 23

REPORT

OF

CONTRACT CLERK.

REPORT OF CONTRACT CLERK.

DEPARTMENT OF PUBLIC WORKS,
CONTRACT CLERK'S OFFICE, 237 BROADWAY,
NEW YORK, June 10, 1872.

GEORGE M. VAN NORT, Esq.,

Commissioner of Public Works:

SIR—In compliance with your request of the 30th ult., I respectfully submit the accompanying report, showing the number, nature, and amount of contracts, with the name of the contractor, made in this office from April 10, 1871, to April 10, 1872, inclusive.

On examination you will find that there were no contracts made (except a few special) since July, 1871, and the business of this office, as to contracts, was mainly in certifying to the correctness of prices on estimates from the different bureaus under existing contracts, which in all cases received prompt attention.

The office of Deputy Superintendent of Repairs and Supplies having been abolished, this office was charged with the duty of purchasing supplies, etc. I would state that all purchases of materials in pursuance of requisitions made upon, and approved by you, were made directly from the merchant or manufacturer, at the lowest market prices, and all arrangements for repairs to public buildings were effected with a view to the strictest economy.

Very respectfully,

WILLIAM H. BARKER,

Contract Clerk.

LIST OF CONTRACTS made by the Department of Public Works during the Year 1871.

1871.	BELGIAN PAVEMENTS.	Name of Contractor.	ESTIMATE.	R	EMARKS.	
March 11	Twenty-second street, between Fourth avenue and Broadway	James Everard	\$8,257 00	Awarded under after due compe		
April 25	Hudson street, between Chambers and Canal streets	James F. Keyes	33,075 00	do	do.	do.
April 25	Hoboken street, between Washington and West streets	Mathew Baird	2,070 50	do.	do.	do.
April 25	Reade street, between Washington and West streets	Mathew Baird	3,147 00	do.	đo.	do.
April 25	South street, between Montgomery and Corlears streets	Mathew Baird	42,490 00	do.	do.	do.
April 25	Mangin street, between Stanton and Houston streets	Mathew Baird	3,004 50	do.	do.	do,
April 25	Corlears street, between South and Water streets	Mathew Baird	3,750 00	do.	do.	do.
June 1	Thirty-first street, between Second avenue and East river	D. McGrath	12,318 40	do.	do.	do.
June 1	Fortieth street, between Madison and Third avenues	D. McGrath	15,444 00	do.	do.	do.
June 1	Hubert street, between Hudson and West streets	W. A. Cumming	7,703 50	do.	do.	do. ,
June 1	Franklin street, between West Broadway and West streets	W. A. Cumming	16,164 50	do.	do.	do.
June r	Watts street, between Canal and West streets	W. A. Cumming	7,641 00	do.	do.	do.
July 3	Broome street, between Broadway and Centre street	James Gearty	7,774 50	do.	do.	do.
July 13	Bayard street, from Bowery to Baxter street	James Everard	6,525 00	do.	do.	do.
July 13	Thirty-second street, from Second avenue to East river	James Everard	10,004 00	do.	do.	do.
July 13	Willett street, from Grand to Rivington street	James Everard	7,965 00	đo.	do.	do.
July 13	Forty-fifth street, from Second avenue to East river	James Gearty	8,934 00	do.	do.	do.
July 13	Fifty-first street, from Broadway to Eighth avenue	James Everard	5,165 00	do.	do.	do.
July 13	Fifty-second street, from Eighth to Ninth avenue	James Everard	6,996 00	do.	do.	do.
July 13	Astor place, from Fourth avenue to Broadway	James Everard	10,113 00	dō.	do.	do.
July 13	Eighth street, from Fourth avenue to Broadway	James Gearty	2,435 00	do.	do.	dò.
	21 Belgian Pavement contracts		\$ 220,976 90			

LIST OF CONTRACTS-(Continued).

1871.	SEWERS.	Name of Contractor.	ESTIMATE,	R	EMARKS.	
	One Hundred and Tenth street, between Harlem river and Fifth avenue	William Baird	\$433,850 00	Awarded under after due compe	Chap. 308, tition, to the	Laws of 1861 lowest bidder
	One Hundred and Ninth street, between Fourth avenue and Harlem river.	E. A. Allen & John T. Henry	17,607 30	do.	do.	do.
April 25	Second avenue, between One Hundred and Eleventh and One Hundred and Sixteenth streets	Robert McChristie	15,220 00	do.	do.	do.
April 25	Tenth avenue, between Manhattan and Lawrence streets	Patrick Farley	7,662 50	do.	do.	do.
April 25	Third avenue, between Eleventh and Twelfth streets	Robert McChristie	2,322 50	do.	do.	do.
June x	Seventy-second street, between Avenue A and First avenue	E. A. Allen	1,354 00	do.	d o.	do,
June 1	Water street, between Gouverneur and Jackson streets	J. Garry	3,496 50	do.	do.	do.
June 1	Hudson street, between Banks and West, and Horatio and Ganse-voort streets.	T. G. O'Brien	2,170 00	do.	do.	do.
June 1	Fifth avenue, between Thirty-second and Thirty-third streets	1	1,122 00	do.	d o.	do.
July 13	Sixty-first and Sixty-second streets, between Boulevard and Ninth avenue	Patrick Farley	4,125 00	do.	do.	do.
July 13	One Hundred and Fifteenth street, from Avenue A to First avenue.	James Reilly	2,618 90	do.	do.	do.
July 13	One Hundred and Twenty-third street, from Avenue A to Second avenue	Montgomery & Mulhol-	6,665 00	do.	do.	do.
July 13	One Hundred and Eighth street, from Hudson river to Boulevard, to One Hundred and Tenth street, to Tenth avenue, with branches.	Abraham Dowdney	47,850 00	do.	do.	do.
Fuly 13	Sixty-fifth street, from First to Third avenue	Robert McChristie	6,103 00	do.	do.	do.
July 13	Underground Drains, Seventy-third and Eighty-first streets, between First and Fifth avenues.	Edward Bradborn	31,562 80	do.	do.	do.
July 13	Furnishing this department with Granite Basin Heads and their appurtenances	James Hogan	17,900 00	d o.	do.	do.
	16 Sewer contracts		\$601,629 50			

LIST OF CONTRACTS—(Continued.)

1871.	REGULATING, GRADING, CURB, GUTTER, AND FLAGGING.	Name of Contractor.	ESTIMATE.	ATE. REMAI		ARKS.	
April 25	One Hundred and Thirty-fourth street, between Fourth and Eighth avenues.	Michael Donohue	\$ 18,093 00	Awarded under after due compe	Chap. 308, L tition, to the lo	aws of 1861, west bidder.	
April 25	One Hundred and Twenty-third street, between Eighth and New avenues	Joseph Pickard	22,861 32	do.	do.	đo.	
April 25	One Hundred and Fourth street, between Fifth avenue and Harlem river	Daniel Tone	53,297 50	do.	do.	do.	
April 25	Ninety-third street, between Fourth and Fifth avenues	Michael Gavin	6,679 00	do.	do.	đo.	
June 1	Sixty-fifth street, between Ninth and Tenth avenues	James Garry	2,141 60	do.	do.	do.	
July 13	Lexington avenue, from Sixty-sixth to Ninety-sixth street	James Riley	75,682 40	do.	đo.	do.	
July 13	Fiftieth street, between Fifth and Madison avenues	Michael Mahoney	1,378 80	do.	do.	do.	
July 13	Fifty-first street, between Broadway and Eighth avenue	James Gearty	2,017 00	do.	do.	do.	
July 13	Seventy-seventh street, between Third and Fifth avenues	Robert Cunningham	3,709 08	do.	do.	do.	
July 13	First avenue, between Thirty-third and Thirty-fourth streets	James Everard	778 80	do.	do.	do.	
July 13	One Hundred and Twenty-third street, between Third and Fourth avenues	James Everard	2,2 93 60	do.	đo.	do.	
July 13	Fifty-ninth street, between Ninth and Tenth avenues	James Everard	2,309 40	đo.	do.	do.	
July 13	Fifty-fifth street, from Broadway to Eighth avenue	James Everard	582 00	do.	do.	đo.	
			\$191,823 50	1			

do.

do.

do.

REMARKS. 1871. SPECIAL CONTRACTS. NAME OF CONTRACTOR. ESTIMATE. \$145,887 00 Awarded by competition to the lowest bidder. 74,037 50 244,550 00 do. do. do. 309,050 00 Awarded under Sec. 13, Chap. 383, Laws 700,000 00 July 1.... Laying Water Pipe from Forty-second street, through Madison avenue to Twenty-sixth street, etc., etc., John B. Green Awarded under Sec. 6, Chap. 383, Laws 140,000 00 July 1.... Laying Water Pipe from Fourth avenue to Forty-ninth street...... John B. Green....... 30,000 00 July 1.... Regulating, Grading, etc., First avenue, from Ninety-second to Awarded under Sec. 5, Chap. 574, Laws 400,388 50 of 1871, amending Sec. 77, Laws 1870. August 30. One Hundred and Thirty-fifth street, from Eighth avenue to do. Hudson river (Regulating and Grading). E. J. Ouirk. 186,477 50 Sept. 1... Regulating and Grading One Hundred and Twentieth street, from do. 29,436 00 do. Sept. 1. Sixty-sixth street, from Broadway to Eighth avenue....... Felix Coleman...... do. do. 42,204 00 Oct. 16.... Regulating and Grading Madison avenue, between Eighty-sixth do. do. 147,630 30 Oct. 16... Regulating and Grading Madison avenue, between One Hundred

276,715 00

31,542 50

41,734 70

do.

do.

do.

do.

and Fifth and One Hundred and Twentieth streets. T. & J. D. Crimmins . . .

East river Patrick Farley.....

Regulating and Grading Seventy-ninth street, from Ninth to Tenth

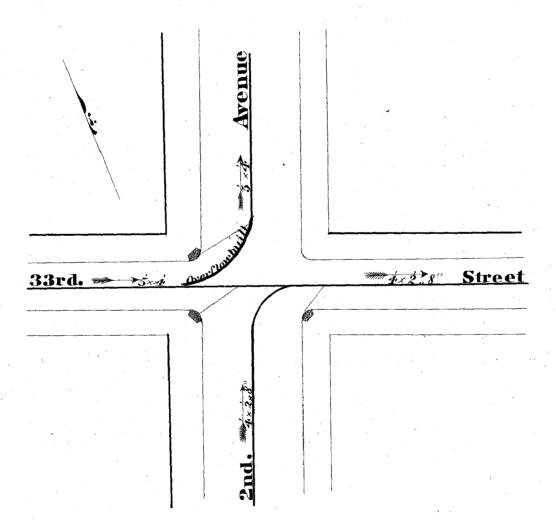
Nov. 1.... Regulating and Grading Seventy-fifth street, from Fifth avenue to

LIST OF CONTRACTS-(Continued).

nis McCarthy ro,252 oo do. do.	94,787 50 do. do.	42,715 00 do. do.						!
10,252 00								
	94,787 50	8 8						
nis McCarthy		İ	\$3,046,407 50	\$220,976 90	601,629 50	191,823 50	3,046,407 50	\$4,060,837 40
Nov. 1 Regulating and Grading One Hundred and Twenty-second street, from Sixth to Seventh avenue	Nov. 1 Regulating and Grading Seventy-third street, from Eighth avenue to Harlem river.	Dec. 26 Regulating and Grading Seventy-seventh street, from Ninth avenue to Boulevard		21 Belgian Pavement Contracts.	16 Sewer Contracts	13 Regulating and Grading Contracts	18 Special Contracts	Total 68 Contracts



Note Old Sewers in Black. New do in Red.



Appendix A.

APPENDIX A .- REPORT OF COMMIS

STATEMENT showing Balances, April 11, 1871; Appropriations, as per Board 1871; Expenditures from April 11 to December 31, 1871; Amounts paid not paid by Comptroller on Requisitions, and those paid without Requisit four months of 1872; Expenditures from January 1 to April 11, 1872;

APPROPRIATIONS. April 11, 1871. Soptiment, September 13, 1871. Appropriations for 1871. It to December 31, 1871. April 11, 1871. Soptiment 13, 1871. Appropriations for 1871. It to December 31, 1871. Appropriations for 1871. It to December 31, 1871. Appropriations for 1871. It to December 31, 1871. Appropriations for 1871. It to December 31, 11,756 oo					
Aqueduct Repairs and Improvements. 73,528 97 \$98,741 02 172,269 99 \$52,077 10 Coenties Reef, Blasting and Removing. 11,756 00			as per Board of Ap- portionment, September 13,	and Appropriations	from April
Coenties Reef, Blasting and Removing	Arching the Cut in Fourth avenue	\$ 70,787 36	•••••	\$70, 787 36	
II,756 00 II,7	${\bf A} {\bf q} {\bf u} {\bf e} {\bf d} {\bf u} {\bf c} {\bf t} {\bf R} {\bf e} {\bf p} {\bf a} {\bf r} {\bf s}$ and ${\bf I} {\bf m} {\bf p} {\bf r} {\bf o} {\bf v} {\bf e} {\bf m} {\bf e} {\bf r} {\bf s}$.	73,528 97	\$98,741 02	172,269 99	\$52,077 10
Works		11,756 ∞		11,756 00	
Flagging Sidewalks and Fencing Vacant Lots	Contingencies, Department of Public Works		5,304 23	5,354 83	5,497 40
Cant Lots 3,201 42 3,201 42 3,201 42		4,438 ∞	•••••	4,438 00	
Lamps and Gas		3,201 42		3,201 42	
Legal Assistance to Commissioner of Public Works	Free Floating Baths	1,729 53	320 47	2,050 00	2,895 00
Public Works	Lamps and Gas	545 91	435,917 94	436,463 85	461,307 69
Monument in Greenwood Cemetery 9,100 00 9,100 00 1,923 00 New Stone Bridge at Kingsbridge 42,759 00 42,759 00 1,923 00 Preparing Maps for Department of Public Works 10 74 47,515 87 47,526 61 24,934 60 Printing for Departments 10 74 47,515 87 47,526 61 24,934 60 Public Buildings, Construction and Repairs 330 96 99,977 54 100,308 50 7,359 00 Public Drinking Hydrants and Urinals 3,500 00 3,500 00 212 60 Removing Obstructions in Streets and Harbor 3,500 00 3,202 37 481 00 Repairing and Keeping in Order Wooden Pavements 10 10 10 10 10 10 10 10 10 10 10 10 10	Legal Assistance to Commissioner of Public Works		5,000 00	11,000 00	7,500 00
New Stone Bridge at Kingsbridge 42,759 00 42,759 00 1,923 00 Preparing Maps for Department of Public Works 2,590 00 2,590 00 2,590 00 Printing for Departments 10 74 47,515 87 47,526 61 24,934 60 Public Buildings, Construction and Repairs 330 96 99,977 54 100,308 50 7,359 00 Public Drinking Hydrants and Urinals 3,500 00 3,500 00 212 60 Removing Obstructions in Streets and Harbor 3,202 37 3,202 37 481 00 Repairing and Keeping in Order Wooden Pavements 10 10 10 Repairing and Renewal of Pipes, Stopcocks, etc. 13 88 55,055 85 55,069 73 55,069 73 Roads and Avenues, Sprinkling 126 00 126 00 127,085 72 Salaries, Department of Public Works 2 98 240,279 59 240,282 57 147,085 72	Monument in Calvary Cemetery	10,000 00		10,000 00	10,000 00
Preparing Maps for Department of Public Works. 2,590 00 2,590 00 2,590 00 2,590 00 2,590 00 24,934 61 24,934 62	Monument in Greenwood Cemetery	9,100 00	•	9,100 00	••••••
Public Works 2,590 00 2,590 00 24,934 61 24,934 61 Public Buildings, Construction and Repairs 330 96 99,977 54 100,308 50 7,359 00 212 61 24,934 6	New Stone Bridge at Kingsbridge	42,759 00		42,759 00	1,923 ∞
Public Buildings, Construction and Repairs 330 96 99,977 54 100,308 50 7,359 00 Public Drinking Hydrants and Urinals 3,500 00 3,500 00 212 60 Removing Obstructions in Streets and Harbor 3,202 37 3,202 37 481 00 Repairing and Keeping in Order Wooden Pavements 10 10 10 Repairing and Renewal of Pipes, Stopcocks, etc. 20 55,055 85 55,069 73 55,069 73 Roads and Avenues, Sprinkling 126 00 126 00 126 00 147,085 73 Salaries, Department of Public Works 2 98 240,279 59 240,282 57 147,085 73	Preparing Maps for Department of Public Works			2,590 00	
Repairs 330 96 99,977 54 100,308 50 7,359 00 Public Drinking Hydrants and Urinals 3,500 00 3,500 00 212 60 Removing Obstructions in Streets and Harbor 3,202 37 481 00 Repairing and Keeping in Order Wooden Pavements 10 10 10 Repairing and Renewal of Pipes, Stopcocks, etc. 13 88 55,055 85 55,069 73 55,069 75 Roads and Avenues 13 88 55,055 85 55,069 73 55,069 75 Roads and Avenues 126 00 126 00 126 00 Salaries, Department of Public Works 2 98 240,279 59 240,282 57 147,085 75 14	Printing for Departments	10 74	47,515 87	47,526 61	24,934 61
Removing Obstructions in Streets and Harbor. 3,500 00 3,500 00 212 60	Public Buildings, Construction and Repairs		99,977 54	100,308 50	7,359 ∞
Repairing and Keeping in Order Wooden Pavements				3,500 00	212 61
Wooden Pavements 10 10 Repairing and Renewal of Pipes, Stopcocks, etc. 13 88 55,055 85 55,069 73 55,069 73 Roads and Avenues. 13 88 55,055 85 55,069 73 55,069 73 Roads and Avenues, Sprinkling. 126 00 126 00 126 00 Salaries, Department of Public Works 2 98 240,279 59 240,282 57 147,085 73	Removing Obstructions in Streets and Harbor.			3,202 37	481 oo
Stopcocks, etc	Repairing and Keeping in Order Wooden Pavements			10	
Roads and Avenues, Sprinkling 126 00		1			
Salaries, Department of Public Works 2 98 240,279 59 240,282 57 147,085 7	Roads and Avenues	13 88	55,055 85	55,069 73	55,069 73
	Roads and Avenues, Sprinkling	126 00		126 00	
Sewers, Repairing and Cleaning 300 80 108,800 68 100,200 57 65,464 24	Salaries, Department of Public Works	2 98	240,279 59	240,282 57	147,085 71
2 2 2 2 3 4 3 2 2 2 2 2 2 2 2 2 2 2 2 2	Sewers, Repairing and Cleaning	300 89	198,899 68	199,200 57	65,464 25

SIONER OF PUBLIC WORKS, 1871-2.

of Apportionment, September 13, 1871; total Balances and Appropriations, by Comptroller on Requisitions drawn prior to April 11, 1871; Amounts tions by Comptroller; Balances, January 1, 1872; Appropriations for first and Balances, April 11, 1872.

Amounts paid by Comptroller on requisitions drawn prior to April 11, 1871.	Amounts not paid by Comptroller on requisitions and those paid without requisitions by Comptroller.	Balances, January 1, 1872.	Appropriations for first four months, 1872.	Balances, January 1, 1872, and ap- propriations first four months.	Expenditures from Janu- ary 1 to April 11, 1872.	Balances, April 11, 1872.
1					:	
	*\$25,011 00	\$ 45,776 36		\$45,776 36		\$45,776 36
\$120,1 92 89		•••••	\$35,000 00	35,000 00	\$10,921 55	24,078 45
		11,756 00		11,756 00		11,756 00
	* 142 57		5,000 00	5,000 00	100 00	4,900 00
		4,438 00		4,438 00		4,438 00
4 74	* 384 67	3,201 42		3,201 42		3,201 42
	* 845 00					
	* 24,843 84	•••••	300,000 00	300,000 00	5,287 08	294,712 92
3,500 00						
						• • • • • • • • •
		9,100 00		9,100 00		9,100 00
616 00	† 216 00	40,436 00		40,436 00		40,436 ∞
		2,590 00	••••	2,590 00		2,590 00
22,592 00	••••		16,667 00	16,667 00	984 05	15,682 95
100,308 50	† 7,359 00		25,000 00	25,000 00	1,168 50	23,831 50
		3,287 39		3,287 39		3,287 39
2,600 00	•	121 37	833 00	954 37	15 00	939 37
•••••	* 10	•••••	15,000 00	15,000 00		15,000 00
			20,000 00	20,000 00	6,301 25	13,698 75
		••••	10,000 00	10,000 00	3,854 ∞	6,146 00
		126 00		126 00		126 00
93,922 19		274 67	75,000 00	75,274 67	48,014 80	27,259 87
148,999 53	‡ 23,997 oo	9,663 79		9,663 79 }	10,017 50	2,966 29

APPENDIX A.—REPORT OF COMMISSIONER

TITLES OF APPROPRIATIONS.	Balances, April 11, 1871.	Appropriations as per Board of Ap- portionment, September 13, 1871.	Total Balances and Appropriations for 1871.	Expenditures from April 11 to Decem- ber 31, 1871.
Sewers, Repairing				
Sewers, Cleaning				
Stationery and Blank Books for Departments, Civil and Police Courts		\$ 56,225 03	\$ 56,270 10	\$31,058 70
Streets, Repaying and Repairs	1 09	23,504 71	23,505 80	23,505 80
Street Improvements, for Street Signs and Numbers	784 21	6,802 01	7,586 22	7,528 03
Supplies for and Cleaning Public Offices	258 93	108,515 05	108,773 98	20,445 32
Tompkins Square, Paving	68,875 74		68,875 74	
Wells and Pumps, Repairing and Cleaning		378 00	389 00	984 00
	\$313,950 75	\$1,382,436 99	\$1,696,387 74	\$925,328 95

^{*} Amounts paid by Comptroller without requisition from this Department.

[†] Amounts of requisitions drawn by this Department not paid by Comptroller in 1871,

TRUST AND SPECIAL ACCOUNTS.	Authorized by Statute.	Balances, April 11, 1871.
Additional Alterations of Aqueduct, from Ninety-third to One Hundred and Thirteenth street	\$2,000,000 00	\$1,497,990 67
Changing Grades, Ninth avenue, etc	25,000 00	25,000 00
Changing Grades, Chambers and other streets	20,000 00	20,000 00
Croton Water Works Extension, High Service, Carmansville	290,000 00	113,433 72
Croton Water Works Extension, Storage Reservoirs	190,000 00	3,474 65
Croton Water Fund	1,000,000 00	1,000,000 00
Croton Water Main Fund	1,500,000 00	1,460,472 66
Extra Cleaning of Streets, etc		
Meter Stock	1,000,000 00	1,000,000 00
Pavement Repair Stock	50,000 00	50,000 00
Sewer Repair Stock	100,000 00	100,000 00
Street Improvement Fund		
Street Improvement Fund, Fees of Collectors		
Water Stock of 1870, Improvement of Lower Reservoir	500,000 00	500,000 00

^{*} Also Chap. 579, Laws 1853, Sec. 18;

OF PUBLIC WORKS, 1871-2-(Continued).

Amounts paid by Comptroller on requisitions drawn prior to April 11, 1871.	Amounts not paid by Comptroller on requisitions and those paid without requisitions by Comptroller.	Balances, January 1, 1872.	Appropri- ations for first four months, 1872.	Balances, January 1, 1872, and ap- propriations first four months.	Expenditures from Janu- ary 1 to April 11, 1872.	Balances, April 11, 1872.
			\$20,000 00	\$20,000 00	\$3,270 32	\$16,729 68
			20,000 00	20,000 00	• • • • • • • • • • • • • • • • • • • •	20,000 00
\$25,211 40			10,000 00	10,000 00	1,152 35	8,847 65
	•••••	••••••	25,000 00	25,000 00	i	25,000 00
	† \$ 58 19		1,666 67	1,666 67		1,666 67
88,328 66		••••	25,000 00	25,000 00	14,228 11	10,771 89
		\$68,875 74		68,875 74		68,875 74
	* 595 oo		500 00	500 00		500 00
\$606,275 91		\$199,646 74	\$604,666 67	\$808,563 41	\$105,314 51	\$702,318 90

[‡] Amounts received for sewer permits deposited to the credit of this appropriation, Sec. 11, Chap. 583, Laws 1871.

Expenditures, April 11 to De- cember 31, 1871.	January r to	Expenditures, April 11, 1871, to April 11, 1872.	Balances, April 11, 1872.	STATUTE.
\$820,630 55	\$174,826 42	\$995,456 97	\$502,533 70	Chap. 230, Laws 1870.
			25,000 00	" 226, " 1871, Sec. 6.
**********			20,000 00	" 570, " 1871.
33,570 03	22,583 20	56,153 23	57,280 49	" 784, " 1869.
3,163 38		3,163 38	311 27	" 784, " 1869.
209,610 88	16,532 14	226,143 02	713,183 44	Chaps. 56 and 328, Laws 1871.
1,139,483 28	46,611 59	1,186,094 87	274,377 79	Chap. 213, Laws 1871.
2,500 00		2,500 00		" 853, " 1868, Sec. 11.
			1,000,000 00	" ₂₁₃ , " ₁₈₇₁ , " ₅ .
******			50,000 00	" 218, " 1871.
21,848 20	4,686 85	26,535 05	73,464 95	" 220, " 1871.
2,972,214 49	241,004 82	3,213,219 31		* " 397, " 1852.
83,465 51	23,844 63	107,310 14		" 137, " 1870, Sec. 32.
104,927 21	11,931 48	116,858 69	383,141 31	" 383, " 1870, " 6.

and Chap. 583, Laws 1871, Sec. 4.

C. T. McCLENACHAN,

First Book-keeper, D. P. W.

STATEMENT

Showing the Transactions of the Department of Public Works, as to Collections of Croton Water Rents and Penalties; Amounts received for Tapping Pipes; Permits to Construct Vaults and to make Sewer Connections; the Sale of Vitrified Stoneware Pipe, and Sales at Auction of Building Material in Opening, Widening, and Extending of Streets, and of Old Material at the Corporation Yards.

TITLE.	APRIL 10, 1871, to APRIL 10, 1872.	Total.
Croton Water Rents and Penalties	\$ 1,257,640 08	
Tapping Pipes	8,736 ·50	
Sewer Permits.	28,247 00	
Vault Permits	58,034 01	
Sales of Vitrified Stoneware Pipe	7,553 69	
Cash for Sales of Old Buildings and Material	12,532 18	\$1,372,743 46
		Ψ=,3/2,/43 40

Appendix B.

(All these Statements embrace the Transactions of the Department of Public Works, as recorded in the Office of the First Book-keeper, for the Year 1871-2.)

			
AQUEDUCT REPAIRS AND IMPROVEMENTS.	April 10, 1871, to Dec. 31, 1871.	to	
Furnishing Fence Pickets			
Gas for Gate-house (Reservoir), Central Park	70 00		
implements	363 85	Î	
Lumber and Materials for Construction	2,777 27	\$71 ∞	
Plants for Reservoir	86 52	!	
Pay-rolls—Engineers, Assistants, and Laborers	43,802 07	10,921 55	
Repairs to Aqueduct at Yonkers	2,443 22	1	
Repairs to Reservoir at Forty-second street	1,087 07	1	
Traveling Expenses of Engineers and Assistants	284 28	1	
Taxes—Town of Greenburgh	112 00		
" Yonkers	550 42		
" Tarrytown	86 63		
" Yorktown	52 55		
" Somers	24 73		
	\$52,006 10	\$10,992 55	\$62,998
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CONTINGENCIES—DEPARTMENT OF PUBLIC WORKS. Advertising. Commissioner of Public Works—for Petty Expenses. Deputy Superintendent of Repairs and Supplies, for Traveling Expenses. Superintendent of Repairs and Supplies, for Traveling Expenses. Superintendent of Repairs and Supplies, for Traveling Expenses. Superintendent of Repairs and Supplies, for Traveling Expenses. FREE FLOATING BATHS. Pay-roll—Superintendent, Keepers, and Laborers. \$2,895 co \$186 co 3,081 co LEGAL ASSISTANCE TO COMMISSIONER OF PUBLIC WORKS. Counsel Fees and Legal Assistance. \$489 50 \$41 co Gas Fixtures for Public Offices. 12,047 co New Lamp-posts. 103,535 c7 102 co New Lamp-posts. 103,535 c7 102 co Pay-rolls—Lighting Markets. 1,359 96 679 98 Paint, and Painting Public Lamps and Posts. 480 50 1,829 10					
Commissioner of Public Works—for Petty Expenses. 5,082 40 \$100 00	CONTINGENCIES—DEPARTMENT OF PUBLIC WORKS.				
Deputy Superintendent of Repairs and Supplies, for Traveling Expenses. 185 ∞ Superintendent of Repairs and Supplies, for Traveling Expenses. 125 ∞ \$5,497 40 \$100 ∞ 5,597 40 FREE FLOATING BATHS. \$2,895 ∞ \$186 ∞ 3,081 ∞ LEGAL ASSISTANCE TO COMMISSIONER OF PUBLIC WORKS. \$7,500 ∞ 7,500 ∞ Counsel Fees and Legal Assistance. \$7,500 ∞ 7,500 ∞ LAMPS AND GAS. \$489 50 \$41 ∞ Cartages. \$103,535 07 102 ∞ New Lamp-posts. 103,535 07 102 ∞ New Gas-lamps, Furnishing Gas, and Lighting Public Lamps 296,569 05 2,103 ∞ Pay-rolls—Lighting Markets. 1,359 96 679 98 Paint, and Painting Public Lamps and Posts 46,826 56 532 ∞ Repairing and Reglazing Public Lamps and Lamp-irons 480 50 1,829 10	Advertising	\$105 00			
Superintendent of Repairs and Supplies, for Traveling Expenses 125 00 \$5,497 40 \$100 00 5,597 40 5,59	Commissioner of Public Works—for Petty Expenses.	5,082 40	\$100 00		
\$5,497 40 \$100 00 5,597 40	Deputy Superintendent of Repairs and Supplies, for Traveling Expenses.	. 182 00			
FREE FLOATING BATHS. Pay-roll—Superintendent, Keepers, and Laborers	Superintendent of Repairs and Supplies, for Traveling Expenses	125 00			
Pay-roll—Superintendent, Keepers, and Laborers		\$5,497 40	\$100 00	5,597 40	
LEGAL ASSISTANCE TO COMMISSIONER OF PUBLIC WORKS. Counsel Fees and Legal Assistance. \$7,500 00 7,500 00 ILAMPS AND GAS. Cartages. \$489 50 \$41 00 Gas Fixtures for Public Offices. 12,047 05 New Lamp-posts. 103,535 07 102 00 New Gas-lamps, Furnishing Gas, and Lighting Public Lamps 226,569 05 2,103 00 Pay-rolls—Lighting Markets. 1,359 96 679 98 Paint, and Painting Public Lamps and Posts. 46,826 56 532 00 Repairing and Reglazing Public Lamps and Lamp-irons. 480 50 1,829 10	FREE FLOATING BATHS.				
Sq.500 00 T,500 00	Pay-roll—Superintendent, Keepers, and Laborers.	\$2,895 00	\$186 00	3,081 00	
Counsel Fees and Legal Assistance. \$7,500 00 7,50					
LAMPS AND GAS. Cartages. \$489 50 \$41 00 Gas Fixtures for Public Offices. 12,047 05 New Lamp-posts. 103,535 07 102 00 New Gas-lamps, Furnishing Gas, and Lighting Public Lamps. 296,569 05 2,103 00 Pay-rolls—Lighting Markets. 1,359 96 679 98 Paint, and Painting Public Lamps and Posts. 46,826 56 532 00 Repairing and Reglazing Public Lamps and Lamp-irons. 480 50 1,829 10	LEGAL ASSISTANCE TO COMMISSIONER OF PUBLIC WORKS.				
Cartages. \$489 50 \$41 00 Gas Fixtures for Public Offices. 12,047 05 New Lamp-posts. 103,535 07 102 00 New Gas-lamps, Furnishing Gas, and Lighting Public Lamps 296,569 05 2,103 00 Pay-rolls—Lighting Markets. 1,359 96 679 98 Paint, and Painting Public Lamps and Posts. 46,826 56 532 00 Repairing and Reglazing Public Lamps and Lamp-irons. 480 50 1,829 10	Counsel Fees and Legal Assistance	\$7,500 00		7,500 00	
Cartages. \$489 50 \$41 00 Gas Fixtures for Public Offices. 12,047 05 New Lamp-posts. 103,535 07 102 00 New Gas-lamps, Furnishing Gas, and Lighting Public Lamps 296,569 05 2,103 00 Pay-rolls—Lighting Markets. 1,359 96 679 98 Paint, and Painting Public Lamps and Posts. 46,826 56 532 00 Repairing and Reglazing Public Lamps and Lamp-irons. 480 50 1,829 10					20
Gas Fixtures for Public Offices. 12,047 05 New Lamp-posts. 103,535 07 102 00 New Gas-lamps, Furnishing Gas, and Lighting Public Lamps. 296,569 05 2,103 00 Pay-rolls—Lighting Markets. 1,359 96 679 98 Paint, and Painting Public Lamps and Posts. 46,826 56 532 00 Repairing and Reglazing Public Lamps and Lamp-irons. 480 50 1,829 10	LAMPS AND GAS.		·		7
New Lamp-posts. 103,535 07 102 00 New Gas-lamps, Furnishing Gas, and Lighting Public Lamps 296,569 05 2,103 00 Pay-rolls—Lighting Markets. 1,359 96 679 98 Paint, and Painting Public Lamps and Posts. 46,826 56 532 00 Repairing and Reglazing Public Lamps and Lamp-irons. 480 50 1,829 10	Cartages	\$ 489 50	\$41 00		
New Gas-lamps, Furnishing Gas, and Lighting Public Lamps 296,569 05 2,103 00 Pay-rolls—Lighting Markets 1,359 96 679 98 Paint, and Painting Public Lamps and Posts 46,826 56 532 00 Repairing and Reglazing Public Lamps and Lamp-irons 480 50 1,829 10	Gas Fixtures for Public Offices.	12,047 05			
Pay-rolls—Lighting Markets 1,359 96 679 98 Paint, and Painting Public Lamps and Posts 46,826 56 532 00 Repairing and Reglazing Public Lamps and Lamp-irons 480 50 1,829 10	New Lamp-posts.	103,535 07	105 00		
Paint, and Painting Public Lamps and Posts	New Gas-lamps, Furnishing Gas, and Lighting Public Lamps	296,569 05	2,103 00		
Repairing and Reglazing Public Lamps and Lamp-irons. 480 50 1,829 10	Pay-rolls—Lighting Markets	1,359 96	679 98		
	Paint, and Painting Public Lamps and Posts	46,826 56	532 00		
	Repairing and Reglazing Public Lamps and Lamp-irons.	480 50	1,829 10		
\$401,307 69 \$5,287 08 400,594 77		\$461,307 69	\$5,287 o8	466,594 77	
MONUMENT IN CALVARY CEMETERY.	MONUMENT IN CALVARY CEMETERY.				
Constructing Monument—Balance on Contract	Constructing Monument—Balance on Contract.	\$10,000 00		10,000 00	
Carried forward	Carried forward		•••••••	\$555,771 82	

APPENDIX B-(Continued).

NEW STONE BRIDGE AT KINGSBRIDGE.	April 10, 1871, to Dec. 31, 1871.	Jan. 1, 1872, to April 10, 1872.	**************************************	
Pay-rolls—Engineers and Inspectors			\$555,771 82 1,923 00	
PRINTING FOR DEPARTMENTS. Department of Public Works and other Municipal Offices, Civil and Police Courts	\$24,934 6x	\$984 05	25,918 66	
PUBLIC BUILDINGS—CONSTRUCTION AND REPAIRS. Caulking sundry Markets	\$7,359 00			208
Clerk of Common Council's Office. First District Police Court.		\$452 27 196 74		×
Fourth District Police Court. Fifth District Civil Court.		153 81 35 96		
Second District Civil Court Tax Receiver's Office		138 91 92 06		
Union Market		98 75 \$1,168 50	8,527 50	
PUBLIC DRINKING-HYDRANTS AND URINALS. Repairing and Painting Fountains				
acopaining and a mining a community	\$212 61		.212 61	

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REPAIRING AND RENEWAL OF PIPES, STOPCOCKS, Etc.		\$6,219 25			
Pay-roll—Mechanics and Laborers, cutting off Water	1	Ψο,219 23 82 00	6,301 25		
Water Purveyor's Traveling Expenses			7,5		
REMOVING OBSTRUCTIONS—STREETS AND AVENUES.		-			
Labor—Fitting up Corporation Yard, Gansevoort street	··· \$481 00	\$15 00	496 00		
ROADS AND AVENUES.	·				
Filling Manhattan street	··· \$2,788 13				
Materials for repairing Drains	··· 690 50				
New Scraper	••• ,	\$103 00			
Pay-rolls—Foremen and Laborers	17,391 50	3,751 00		209	
Repairing Bridge at One Hundred and Fifty-fifth street				9	
Repairing Scrapers and Tools	432 80				
Sand, Gravel, Lime, and Stone-chips	33,341 80				
Traveling Expenses of Superintendent of Streets	250 ∞				
	\$55,069 73	\$3,854 ∞	58,923 73		
STATIONERY AND BLANK BOOKS.					
Department of Public Works and other Municipal Offices, Civil and Police Courts	\$31,058 70	\$1,152 35	32,211 05		
SALARIES-DEPARTMENT OF PUBLIC WORKS.					
Pay-rolls—Commissioner, Deputy, Officers, and Appointees.	\$147,085 71	\$48,014 80	195,100 51		
Carried forward		. , . , . ,	\$885,386 13		

Police Court.	Civil Court.	April 10, 1871, to Dec. 31, 1871.	Jan. 1, 1872, to April 10, 1872.	
				\$885,386 I
		• • • • • • • • • • • • • • • • • • • •	\$33 75	
			1,176 80	,
			54 65	
			102 00	
		\$61 50	481 90	
,	\$107 50			
	39 70		:	
	32 50			
	61 50	!		
\$131 00				
36 26				
46 75		72 92		
	32 50	72 92		
			50 05	
		20,237 08		
		,-3, 3	,.,.	
1			İ	
	\$131 00 36 26 46 75	Court. Court.	Court. Court. to Dec. 31, 1871.	Court. Court. Dec. 31, 1871. April 10, 1872.

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	Carried forward				 \$1,030,829 46	
	Repairing and Cleaning Wells and Pumps	[=	\$984 00		984 00	
	WELLS AND PUMPS.	-	b 0			
	STREETS, REPAVING AND REPAIRS. Repaving and Repairing sundry Streets and Avenues		\$23,505 80		23,505 80	
	SEWERS, REPAIRING. Repairing Basins, etc			\$3,270 32	3,270 32	
	Repairing Basins and Culverts		\$65,464 25	\$10,017 50	75,481 75	
	Pay-roll—Laborers		10,851 50 28,749 95	2,817 50	-	21
	Cleaning Basins and Culverts		\$25,639 10 223 70	\$7,200 oo		
	SEWERS, REPAIRING AND CLEANING.		A -46			
	STREET IMPROVEMENTS. Renumbering Streets, Surveys, Tin Numbers, Labor, etc		\$ 7,528 03		7,528 03	
	443 00	-	\$20,445 32	\$14,228 11	34,673 43	
	Third District Civil Court.	94 93 674 20		1,158 06		
	Second District Police Court. 113 62 Third District Police Court. 156 23	. !	**	,		
:						

APPENDIX B-(Continued).

ASSESSMENT FUND.	April 10, 1871, to Dec. 31, 1871.	Jan. 1, 1872, to April 10, 1872.		
Brought forward Collectors' Fees.			\$1,030,829 46 38,151 19	
INTEREST ON ASSESSMENTS CONFIRMED. Collectors' Fees			770 07	
STREET IMPROVEMENT FUND. Collectors' Fees			68,388 88	212
ADDITIONAL ALTERATIONS OF AQUEDUCT—NINETY-THIRD TO ONE HUNDRED AND THIRTEENTH STREET.				
Cast-iron Pipes	\$12,435 20	\$21,673 03		
Coal		177 ∞		
Harlem Gaslight Co., relaying Gas-mains		150 ∞		
Implements, etc		148 60		
Lumber and Materials for Construction	106,451 19	911 08		
Pay-rolls—Engineers, Assistants, and Laborers	630,691 71	122,534 50		
Steel		194 99		
Stone Boats	500 00			

APPENDIX B-(Continued).

CROTON WATER-MAIN FUND-(Continued).	April 10, 1871, to Dec. 31, 1871.	Jan. 1, 1872, to April 10, 1872.	
Brought forward	\$221,391 42	\$ 4,474 32	\$2,192,913 18
Hydrants, Bands, etc	23,987 80	2,188 61	
Harlem Gaslight Company—Repairing Mains	247 10	20 00	
Iron Safe	4,900 00		
Laying Pipe—Blackwell's and Ward's Islands	7,229 79	754 22	
Man-hole Frames and Covers, etc	185,817 38		
.umber, etc	94,909 72		
Pay-roll—Engineers, Assistants, and Laborers	209,168 91	25,573 74	
Rent of Basement, No. 12 Chambers street	200 00	100 00	
Repairing Hydrants, etc	1,560 74		
Repairing Trucks	1,070 00		
Repairing Harness	466 70	43 75	
Supplies Furnished Pipe Yard	315,583 75	1,603 05	
Sharpening Drills	611 96	321 59	
Shoeing Horses	202 74		
Stopcock Boxes and Covers	60,831 21	4,692 00	
and		200 50	
apper Cocks	6,320 00		
Fapping Water-pipes	721 00	175 00	

21,

City Datum line



TESTIZIASIRETIMPROVEMENT

REBUILDING OF SEWER PROM

Established 116
West12th. Street.

Present 38 Surface

Surface

Surface

Surface

Mud

Filled with Mud

Line of Filling

HudsonRiver

HighWater

Note. Old Sewer in Black. New do in Red.

Carried forward			\$3,605,151 07	
	\$223,102 40	\$ 3,040 62	226,143 02	
Taxes—Town of Kent	217 19			
Frucking	556 80			
Fraveling Expenses	2,404 60			
Stone Boats	456 30			
Repairing Harness	29 77			
Purchase of Land in Yonkers	1,511 50			
Procuring Water for Reservoir	9,435 16			
Pay-rolls—Engineers, Assistants, and Laborers.	19,392 85	2,436 00		
Office Rent, etc	440 52	202 77		
umber and Tools	3,327 32			ز
Iorse Keeping	586 55	83 25		t
Counsel relative to Lakes in Putnam county	916 67			
Constructing Storage Reservoirs.	108,801 30	and the second s		
Constructing New Road in Putnam county	1,297 85			
Building Outlets to Lakes in Putnam county	\$73,728 02	\$318 6 0		
CROTON WATER FUND.				
	\$1,144 094 34	\$42,000 53	1,186,094 87	
Vater-meters	62 10			
Vay Branches	6,166 15			
Vagon for Water Purveyor	475 ∞			
rucking Water-pipes	2,170 87	1,870 42		
raveling Expenses-Engineers and Assistants		· 8 _{3 33}		

EXTRA CLEANING OF STREETS.	April 10, 1871, to Dec. 31, 1871.	Jan. 1, 1872, to April 10, 1872.	
Brought forward			\$3,605,151 07 2,500 00
SEWER REPAIR STOCK.			
Extending Sewer, foot of Forty-eighth street and Hudson river	\$3,410 31		
Repairing Sewer, Eighth avenue and Thirty-ninth street	1,283 00		
Repairing sundry Sewers.	• 3,290 89	4,686 85	
Rebuilding Outlet Sewer, Seventy-fourth street, between Third and Madison avenues	13,864 00		
	\$21,848 20	\$ 4,686 85	26 ,5 35 05
WATER STOCK OF 1870-IMPROVEMENT OF LOWER RESERVOIR.			
Cast-iron Pipe	\$56,5 7 2 68	\$4,975 13	
aying Pipe, Fourth avenue, Madison avenue, etc	47,533 88		
Manhattan Gaslight Company—Repairing Gas-mains		313 24	
Pay-rolls—Engineers, Laborers, etc	776 00	3,354 50	
Traveling Expenses	44 65		
Crucking Iron Pipes	•	3,288 61	
	\$104,927 21	\$11,931 48	116,858 69
Carried forward			\$3,751,044 81

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APPENDIX B-(Continued).

LOCATION OF WORK.	Contractor.		
BELGIAN OR TRAP-BLOCK PAVEMENT.	Brought forward		\$3,751,044 81
Astor place, from Broadway to Fourth avenue	James Everard	\$7,140.00	-
Attorney street, from Division to Houston street	T. G. Hicks	7,189 08	
Avenue C, from Eighteenth street to Houston street	Thomas G. Hicks	39,274 14	
Broome street, from Norfolk street to East river	James Everard	35,816 43	
Broome street, from Norfolk street to Bowery	Brown & Mogk	20,667 08	
Broome street, from Hudson street to Broadway	J. B. Devlin	20,476 97	
Broome street, from Centre street to Broadway	James Gearty	5,349 27	
Bayard street, from Baxter street to Bowery	James Everard	5,970 44	
Charlton street, from Macdougal street to West street	L. W. Johnson	8,571 33	
Corlears street, from South street to Water street	M. Baird	3,567 65	
Chrystie street, from Division street to Grand street	William G. Barbour	393 35	
Dominick street, from Clark street to Hudson street	W. H. Keyes	8,558 55	
Delancey street, from Bowery to East river	Thomas G. Hicks	37,887 26	1
Elizabeth street, from Grand street to Bleecker street	G. W. Fuller	17,401 65	
Eldridge street, from Division street to Houston street	James Gearty	21,559 86	
Eighth street, from Fourth avenue to Broadway	James Gearty	3,231 90	
Eighteenth street, from Sixth avenue to Eighth avenue	M. Baird	548 00	
Eleventh avenue, from Thirty-third street to Thirty-fourth street	P. F. Maginn	3,147 10	
Eighty-fourth street, from Third avenue to Fourth avenue	J. W. Pettigrew	152 85	
	Carried forward	\$246,902 91	\$3,751,044 81

Fifty-third street, from Fifth avenue to Sixth avenue	J. Lanhan	3,482 50	
Fifty-fourth street, from Eighth avenue to Ninth avenue	F. C. Crowley	7,120 40	
Fifty-fifth street, from Eighth avenue to Hudson river	James Gearty	13,757 45	
Fifty-fifth street, from Tenth avenue to Eleventh avenue	J. F. Keyes	2,803 50	
Fifty-sixth street, from Ninth avenue to Tenth avenue	M. J. Green	5,741 61	
Fifty-eighth street, from Sixth avenue to Lexington avenue	M. Baird	806 10	
Fifty-ninth street, from Tenth avenue to Hudson river	P. F. Maginn.	12,269 60	
Fifty-ninth street, from Third avenue to Fifth avenue	W. Baird	620 50	
Forsyth street, from Division street to Houston street	L. W. Johnson	24,380 46	•
Franklin street, from West Broadway to West street	W. A. Cummings	12,687 48	
First avenue, from Thirty-sixth street to Sixty-first street	H. Deghue.	38,582 34	
Hubert street, from West street to Hudson street	W. A. Cummings	6,146 77	
Hudson street, from Chambers street to Canal street	J. F. Keyes	30,260 82	
Hoboken street, from Washington street to West street	M. Baird	2,460 64	
Houston street, from Lewis street to Ferry street	James Everard	191 90	
Lafayette place, from Great Jones street to Astor place	C. Guidet	468 70	
Laight street, from Canal street to West street	J. F. Keyes	611 10	
Lispenard street, from Broadway to West Broadway	J. F. Keyes	235 90	
Ludlow street, from Grand street to Broome street	J. F. Keyes	83 20	
Ludlow street, from Canal street to Stanton street	John B. Devlin	14,441 84	
Macdougal street, from Spring street to Eighth street	C. Keyes	22,136 98	
Mangin street, from Stanton street to Houston street	Matthew Baird	3,556 40	
Ninth avenue, from Fourteenth street to Twenty-third street	Thomas Gearty	26,781 02	
	Carried forward	9660 #80 Pr	3,751,044 81
	. Carried forward	фооо, 500 o5	3,/31,044 01

APPENDIX B-(Continued).

The state of the s			
Location of Work.	Contractor.		
BELGIAN OR TRAP-BLOCK PAVEMENT—(Continued).	Brought forward	\$660,580 85	\$3,751,044 8
Ninth street, from Sixth avenue to Broadway	W. Baird	698 00	
Nineteenth street, from Sixth avenue to Tenth avenue	C. Keyes	25,833 12	
Nineteenth street, from Second avenue to Third avenue	. William Baird	212 40	
One Hundred and Seventeenth street, from Fourth avenue to Harlem river	P. M. Broderick	738 05	
One Hundred and Nineteeth street, from Third avenue to Avenue A	C. Keyes	10,143 00	
Pearl street, from Whitehall street to Coenties slip	Brown & Mogk	6,993 52	
Reade street, from Washington street to West street	. Matthew Baird	3,572 69	
South street, from Montgomery street to Corlears street	Matthew Baird	28,023 73	
Spring street, from Broadway to Bowery	William Baird	4,795 36	
Seventeenth street, from First avenue to East river	. James Everard	724 00	
Sixteenth street, from First avenue to Avenue A	F. C. Crowley	19,030 52	
Sixty-first street, from Third avenue to Fifth avenue	. Lutz & McKim	607 80	
Sixty-second street, from First avenue to Second avenue	. M. Baird	13,304 58	
Sixty-fourth street, from Third avenue to Fifth avenue	. W. G. Barbour	633 10	
Sixty-sixth street, from Third avenue to Fifth avenue	William H. Keyes	598 50	
Seventy-fourth street, from Third avenue to Avenue A	. J. B. Devlin	18,305 52	
Seventy-seventh street, from Fifth avenue to Madison avenue	. J. B. Devlin	1,485 90	
Seventy-eighth street, from First avenue to Fifth avenue	. L. W. Johnson	1,120 08	
Second avenue, from Eighty-sixth street to One Hundred and Twenty-fifth street	T. P. Morrill	91,052 06	:

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Tenth street, from Fifth avenue to University place	T 70 72		
		155 50	
Thirteenth street, from First avenue to East river.	·	24,444 00	
Twenty-second street, from Fourth avenue to Broadway	James Everard	8,064 80	
Twenty-sixth street, from Third avenue to East river	Jeremiah Cromwell	9,209 21	
Twenty-eight street, from Eighth avenue to Broadway	L. W. Johnson	7,723 27	
Thirtieth street, from First avenue to East river	J. B. Devlin	3,937 92	
Thirty-first street, from Seventh avenue to Eighth avenue	M. Baird	7,769 30	
Thirty-first street, from Second avenue to East river	D. McGrath	8,802 11	
Thirty-second street, from Second avenue to East river	James Everard	7,198 07	
Thirty-third street, from Sixth avenue to Tenth avenue	L. W. Johnson	36,836 76	
Thirty-fourth street, from Ninth avenue to Tenth avenue	L. W. Johnson	8,541 23	
Thirty-sixth street, from Seventh avenue to Eighth avenue	F. C. Crowley	5,503 55	
Thirty-ninth street, from Eighth avenue to Ninth avenue	M. Baird	250 80	
Thirty-ninth street, from Fifth avenue to Madison avenue	R. A. Cunningham	5,334 20	
Thirty-ninth street, from Seventh avenue to Eighth avenue	C. Keyes	2,855 62	
Thirty-eighth street, from Lexington avenue to East river	James Everard	4,336 50	
Varick street, from Franklin street to Carmine street	L. W. Johnson	28,182 84	
Vandam street, from Macdougal street to Greenwich street	L. W. Johnson	11,527 82	
Watt street, from Canal street to West street	William A. Cummings	5,457 88	
Willett street, from Grand street to Rivington street	James Everard	5,376 10	1,082,147 94
· · · · · · · · · · · · · · · · · · ·	Carried forward		\$4,833,192 75

APPENDIX B-(Continued).

LOCATION OF WORK.	President.		
NICOLSON PAVEMENT.	Brought forward		\$4,833,192 75
Cliff street, between John and Frankfort streets	C. G. Waterbury	\$4,694 70	
Forty-third street, between Madison avenue and Fifth avenue	C. G. Waterbury	2,226 00	
Forty-third street, between Third avenue and Fourth avenue	C. G. Waterbury	286 00	
Forty-fourth street, between Madison avenue and Fifth avenue	C. G. Waterbury	2,226 00	
Forty-fifth street, between Madison avenue and Fifth avenue	C. G. Waterbury	148 80	
Forty-eighth street, between Fifth avenue and Sixth avenue	R. W. Trundy	4,734 00	
Fifty-sixth street, between Seventh avenue and Ninth avenue	C. G. Waterbury	8,019 60	i :
Fifty-eighth street, between Third avenue and Lexington avenue	C. G. Waterbury	146 40	
Fifth avenue, between Fifty-ninth street and Ninetieth street	C. G. Waterbury	3,815 80	
Ninth street, between Second avenue and Third avenue	C. G. Waterbury	9,423 40	ļ
Stuyvesant street, between Second avenue and Third avenue	C. G. Waterbury	7,537 95	43,258 65
HAMAR PAVEMENT.	,		
Fifth avenue, between One Hundred and Twenty-fourth and One Hundred and Thirtieth streets	C. H. Green	\$14,3 89 30	-
Forty-sixth street, between Fourth and Fifth avenues	C. H. Green	5,152 80	19,542 10
STAFFORD PAVEMENT.			
Fifty-eighth street, between Sixth and Ninth avenues	J. A. Monheimer	\$35,856 80	
Fifty-seventh street, between Sixth and Lexington avenues		20,374 56	56,231 36

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UNDERGROUND DRAINS.	Contractors.		
Seventy-third and Eighty-first streets, from First avenue to Fifth avenue	Edward Bradburn	\$4,688 11	4,688 11
REGULATING, GRADING, CURB, GUTTER, AND FLAGGING.			
Eightieth street, from Boulevard to Public Drive	Daniel Tone	\$1,216 39	
Eighty-first street, from Ninth avenue to Public Drive.	Robert Meers	9,782 22	
Eighty-sixth street, from Eighth avenue to Public Drive	R. H. Tracey	18,541 25	
Eighty-seventh street, from First avenue to East river.	John W. Pettigrew	7,358 93	
Eighty-seventh street, from Drive to New avenue	George A. Tracey	2,594 76	
Eighth avenue, from Eighty-first street to One Hundredth street	J. P. Devlin	44,359 71	
Eighth avenue, from Fifty-ninth street to Seventy-seventh street	James Slatterly	14,727 59	
Eighth avenue, from One Hundredth street to One Hundred and Twenty-second street	J. Slatterly & F. W. White	15,997 01	
Fifth avenue, from One Hundred and Thirtieth street to One Hundred and Thirty-eighth street.	Thomas Owens	11,341 60	ိ
Fifth avenue, from Sixty-ninth street to Seventy-first street.	H. Poyle	2,895 20	
First avenue, from Ninety-second street to One Hundred and Ninth street	John L. Brown	35,166 15	
Fifty-ninth street, from First avenue to East river	J. Fitzpatrick	2,753 75	
Fifty-first street, from Sixth avenue to Seventh avenue	M. Gavin	1,412 28	*
Forty-sixth street, from Eleventh avenue to Hudson river	John Lenihan	1,920 24	
Laurens street, from Canal street to Waverly place	T. J. Mulry	17,625 97	
Lexington avenue, from Sixty-sixth street to Ninety-sixth street	James Reilly	7,770 00	,
Madison avenue, from One Hundred and Fifth street to One Hundred and Twentieth street	T. & J. D. Crimmins	18,391 45	
Ninth avenue, from Broadway to Eighty-sixth street	J. M. Lyons	24,173 05	
	Carried forward	\$238,027 55	\$4,956,912 97

224

2,793 00

	7,492 05		Sixty-sixth street, from Tenth avenue to Boulevard	
	17,211 74	R. & J. Cunningham	Sixty-seventh street, from Eighth avenue to Hudson river	
1	11,403 00	Charles Miner	Sixty-eighth street, from Eighth avenue to Hudson river	
ì	8,603 69	Dennis Meers	Sixty-ninth street, from Eighth avenue to Broadway	H G
	2,310 00	R. Meers	Sixty-ninth street, from Hudson river to Public Drive	O1
1	3,437 42	A. Dowdney	Seventy-second street, from Third avenue to Fourth avenue,	
	4,787 16	G. A. Tracey	Seventy-second street, from Eighth avenue to Hudson river	•
	1,820 00	John Harris	Seventy-third street, from Eighth avenue to Hudson river	
1	15,811 83	D. Babcock	Seventy-fourth street, from Fifth avenue to East river	
	6,361 25	John Harris	Seventy-fifth street, from Eighth avenue to Tenth avenue	
*	7,371 00	John S. Masterson	Seventy-sixth street, from Fifth avenue to East river	
i	2,576 00	Herman Poyle	Seventy-seventh street, from First avenue to East river.	
:	16,102 41	J. S. Masterson	Tenth avenue, from Seventieth street to Eighty-fifth street	
	242,887 50	J. I. Brown	Tenth avenue, from One Hundred and Fifty-fifth street to Manhattan street	
	632 94	M. Gavin	Twenty-second street, from Eleventh avenue to Hudson river	
753,960 62	264 53	J. R. Slattery	Thirty-fifth street, from Eleventh avenue to Twelfth avenue	
-1			SEWERS.	
	\$20,850 73	Robert McChristie	Avenue A, from Seventy-fourth street to Seventy-ninth street	
major das cisos	21,806 60	!	Avenue A, from Seventy-ninth street to Eighty-sixth street	
	6,964 00	1	Avenue A, from Fifty-fourth street to Fifty-sixth street	
	9,761 22	F. Stollmeyer	Avenue A, from Seventy-first street to Seventy-fourth street, etc	
	1,899 20	Michael Noonan	Broadway, from One Hundred and Twenty-ninth to One Hundred and Thirtieth street.	
	1,330 00	J. B. Flynn	Chrystie street, from Delancy street to Rivington street	
\$5,710,873 59		Carried forward	,,	

APPENDIX B—(Continued.)

Location of Work.	Contractors.		
SEWERS—(Continued.)	Brought forward	\$62,611 75	\$5,710,873 59
Clinton street, from Stanton street to Rivington street	James Everard	77 8o	
Climton street, from Stanton street to Houston street	James Everard	79 20	
Delancy street, from Cannon street to East river	M. Gavin	11,125 99	
Duane street, from William street to Rose street	W. H. Keyes.	419 80	
Eighty-first street, from Eighth and Ninth avenue, etc	J. D. Miner	11,426 70	
Eighty-first street, from Third avenue to Fourth avenue	Patrick Farley	9,234 79	
Eighty-eighth street, from Second avenue and Third avenue	Smith & Noonan	18,424 88	
Eighty-ninth street, from Second avenue to East river	F. Stollmeyer	30,207 28	
Eighty-ninth street, from Second avenue to Fourth avenue	M. J. Bannon	6,230 00	
First avenue, from Sixty-ninth street to Seventy-fourth street	Smith & Noonan	34,946 29	
First avenue, from Fifty-fifth street to Fifty-sixth street	F. Casey	1,846 80	
First avenue, from One Hundred and Twenty-first street to One Hundred and Twenty fourth street.	A. Dowdney	3,143 00	
First avenue, from Thirty-fourth street to Thirty-ninth street	R. Cunningham	4,549 30	
First avenue, from Forty-ninth street to Fiftieth street	Charles P. Devlin	3,284 30	
First avenue, from Thirty-ninth street to Fortieth street	T. G. O'Brien	2,830 60	
First avenue, from Houston street to Third street	R. McChristie	2,215 20	
Fourth avenue, from Seventy-eighth street to Seventy-ninth street	John H. McCabe	514 60	
Fourth avenue, from Eighty-eighth street to Ninetieth street	. Charles Jones	19,938 45	
Fourth avenue, from One Hundred and Ninth street to One Hundred and Fifteenth street	Lutz & McKim	15,135 80	

Fourth avenue, from One Hundred and Twenty-fifth street to One Hundred and Twenty-second street, etc	Abram Dowdney	7,372 40	
Fifth avenue, from Eighty-ninth street to One Hundred and Eighth street	R. Cunningham	27,623 57	
Fifth avenue, from Forty-sixth street to Fifty-ninth street	Smith & Noonan	6,464 6 3	
Forty-second and Forty-sixth streets, Eighth avenue and Ninth avenue, etc	M. Gavin	501 40	
Forty-third street, Third avenue and Lexington avenue	R. Cunningham	5,162 15	
Forty-fourth street, from Second avenue to Third avenue	Robert McChristie	6,289 36	
	Lawrence Rock	9,047 04	
Fiftieth street, from Broadway to Eighth avenue	B. F. Brady	5,628 88	
	Hugh McCabe	225 40	
-	Patrick Minturn	3,387 00	
Fifty-sixth street, from Second avenue to Third avenue	Patrick Farley	6,280 23	
· · · · · · · · · · · · · · · · · · ·	P. F. Maginn	12,812 36	
Laurens street, from Broome street to Spring street	M. Gavin	1,831 20	
Madison street, from Pike street to Birmingham street	C. P. Devlin	51 00	
Madison avenue, from Seventy-fourth street to Eighty-sixth street	Patrick Farley	3,680 78	
Madison avenue, from Forty-sixth street to Fifty-ninth street	Smith & Noonan	319 20	
Ninth avenue, from Seventeenth street to Eighteenth street	1	1,276 80	
	I	40,362 17	
Ninety-second, Ninety-third, and Ninety-fourth streets, from Fourth avenue to Fifth ave-	i i	14,499 80	
One Hundred and Ninth street, from Fourth avenue to Harlem river	Allen & Henry	12,830 35	
One Hundred and Tenth street, from Fifth avenue to Harlem river	William Baird	59,091 15	
One Hundred and Thirteenth street, from Third avenue to Harlem river	Smith & Noonan	6,769 35	
	Carried forward	\$469,648 75	\$5,710,873 59

APPENDIX B-(Continued).

LOCATION OF WORK.	Contractors.		
SEWERS-(Continued).	Brought forward	\$469,648 75	\$5,710,873 59
One Hundred and Eleventh street, from First avenue to Fourth avenue	Lindsey & Haggerty	1,610 56	
One Hundred and Twenty-first street, from First avenue to avenue A	Lutz & McKim.	111 60	1 .
One Hundred and Fourth street, from Third avenue to Fourth avenue	J. H. McCabe	11,383 20	
One Hundred and Twenty-fourth street, from Third avenue to Fourth avenue	H. Masterson	1,662 50	
One Hundred and Twenty-sixth street, from Third avenue to Fifth avenue	Terrence McGuire	388 6o	
One Hundred and Twenty-seventh, from Fifth avenue to Sixth avenue	H. Masterson	1,416 39	
One Hundred and Twenty-third street, from Second avenue to avenue A	Montgomery & Mulholland	4,721 43	
One Hundred and Twenty-sixth, One Hundred and Thirty-second, and One Hundred and Thirty-third streets, from Fifth avenue to Sixth avenue	Robert McChristie	532 60	
Oak street, from James street to Oliver street	Charles P. Devlin.	32 80	
Sixteenth street, from Ninth avenue to Hudson river	Matthew Baird	4,626 00	
Seventeenth street, from Eleventh avenue to Hudson river	M. Noonan.	29,439 18	
Sixty-first street, East river, etc	H. Stolimeyer	962 20	
Sixtieth to Sixty-sixth street, from Avenue A and Third avenue	Lutz & McKim	40,335 82	
Sixty-fifth street, from Fourth avenue to Fifth avenue	Patrick Farley	1,462 48	: `
Sixty-fifth street, from Eighth avenue to Ninth avenue	R. A. Cunningham	1,930 60	!
Sixty-sixth street, from Tenth avenue, etc	Quirk, Coleman & Fairchild	90,356 84	H.
Sixty-seventh street and Sixty-eighth streets, from Fourth avenue to Fifth avenue	Patrick Farley	6,335 23	
Seventy-fifth street, from Ninth avenue to Tenth avenue	Jeremiah Crowley	35,932 05	1.
Seventy-second street, from Third avenue to Fourth avenue	A Dowdney	17,001 45.	

Seventy-Sixth street, from First avenue to Third avenue	P. Farley	7,262 22	
Seventy-ninth and Eighty-eighth streets, from Fourth avenue to Fifth avenue	William Baird	919 40	
Seventh avenue, from Greenwich avenue to Fifty-ninth street	S. Ruth, Jr	33,334 55	
Sixty-first and Sixty-second streets, from Boulevard to Ninth avenue	Patrick Farley	3,879 75	
Second avenue, from One Hundred and Twenty-fifth street to Harlem river	S. R. Smith	4,072 05	
Second avenue, from One Hundred and Eleventh to One Hundred and Sixteenth street	Robert McChristie	10,263 79	
Tenth avenue, from Manhattan street to Lawrence street	P. Farley	5,061 49	
Third avenue, from Ninety-third street to One Hundred and Seventh street	William H. McCarthy	21,044 80	
Thirty-sixth street, from Third avenue to Lexington avenue	P. J. Casey	1,842 80	
Thirty-seventh street, from Third avenue to Lexington avenue	P. J. Casey	3,741 05	i
University place, from Eleventh street to Twelfth street	J. B. Flynn	955 75	
Water street, from Fulton street to John street	R. A. Cunningham	1,608 85	813,976 7 8
CROSSWALKS.	I-5		
CROSSWALKS.			
Broadway, opposite No. 1160	P. Gibney	\$403 20	
Chambers street, corner West Broadway	P. Gibney	732 60	
Eighth avenue, east side, between One Hundred and Twenty-fifth street and One Hundred and Twenty-ninth street	R. A. Cunningham	50 00	
East Broadway, opposite Nos. 218 and 219	P. Gibney	388 8o	
Fourth ave., opp. One Hundred and Thirtieth and One Hundred and Thirty-first streets	R. A. Cunningham	100 00	-
Fourth avenue, opposite Eighteenth street, south side	P. Gibney	626 40	
Fourth avenue, opposite Eighteenth street, north side	P. Gibney.	626 40	
Fifth avenue, opposite One Hundred and Thirty-first and One Hundred and Thirty second streets.	Michael Gavin	50 00	
Fourteenth street, opposite southwest and southeast corners of Fourth avenue	R. A. Cunningham	25 00	
	Carried forward	\$3,002 49	\$6,524,850 37

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Varick street, opposite King street, north side	P. Gibney	367 20	Ì	
Varick street, opposite King street, east side.	P. Gibney	367 20		
Varick street, opposite King street, west side.	P. Gibney.	367 20		
Wooster street, opposite No. 24	P. Gibney	158 40		
West street, from Perry street to Pier 54, North River.	W. A. Cummings	389 70	11,884 10	
FLAGGING.		-		
Avenue A, from Seventeenth street to Twenty-fourth street	Michael Rabbit	\$1,659 15	1	
Broome street, opposite No. 539	M. Mahoney	68 85	-	
Centre street, from Franklin street to Leonard street	J. Mahoney	175 14		
Forty-first street, from Broadway to Seventh avenue	P. Gibney	199 50		
Fiftieth street, from Fifth avenue to Madison avenue	M. Mahoney	1,380 94		
Fifty-ninth street, from Ninth avenue to Tenth avenue.	James Everard	1,416 50		23
Fifty-fourth street, from Broadway to Seventh avenue	P. Gibney	569 52		H
Gouverneur street, opposite Henry street	P. Gibney.	426 24		
King street, opposite Nos. 64 and 66	P. Gibney	147 84		
One Hundred and Twenty-third street, from Third avenue to Fourth avenue	James Everard	1,591 28		
Rector street, from Greenwich to Washington street.	J. Mahoney	158 07	n en en en en en en en en en en en en en	
Rutgers slip, from Water street to South street	Thomas Gearty	379 52		
Suffolk street, opposite Nos. 65 and 67	M. Mahoney	152 82		
Seventy-seventh street, from Third avenue to Fifth avenue.	R. Cunningham	2,385 52		
West Thirty-fourth street, opposite Nos. 431 and 439	P. Gibney	600 00		
Second avenue, opposite Nos. 647, 649, and 651	P. Gibney	199 36		
Second avenue, from Thirty-eighth to Thirty-ninth street.	P. Gibney	656 12	12,166 37	
	Carried forward		\$6,548,900 84	

APPENDIX B-(Continued).

	(Communica):		
Location of Work.	Contractors.		
CURB, GUTTER, &c.	Brought forward		\$6,548,900 84
Charlton street, between Greenwich and Hudson streets.	P. Gibney	\$621 40	
Chatham street, between Mulberry and Worth streets	P. Gibney.	229 64	
Eighty-third street, between Third avenue and Fifth avenue	M. Hayes	2,719 14	
Eighty-sixth street, between First avenue and East river.	R. J. Cunningham,	2,921 54	
Eighty-seventh street, between First avenue and Second avenue	P. Gibney	633 60	
Fifth avenue, between Thirty-sixth street and Thirty-seventh street	P. Gibney	705 64	
Marion street, northeast corner of Prince street	P. Gibney	294 73	
South street, between Jackson and Corlears streets	M. McKeon.	971 00	
Sixty-fifth street, between Third avenue and Fifth avenue	P. Farley	7,236 60	
Seventy-second street, between Second avenue and Third avenue	J. W. Pettigrew	2,657 10	
Seventy-fourth street, between First avenue and Avenue A	M. Rabbit	2,327 94	1
West Thirteenth street, opposite Nos. 36 and 38.	P. Gibney.	223 66	21,541 99
FENCING.			
Clark street, opposite No. 20,	J. Mahoney	\$18 75	
Fifty-first street, between First avenue and Second avenue	M. Mahoney	45 00	
First avenue, southwest corner of Fifty-second street	M. Mahoney	91 98	
Tadison avenue, southwest corner of Twenty-seventh street	M. Mahoney	69 60	
Mulberry street, opposite No. 74	C. H. Jacobus	18 30	
West Thirty-second street, opposite No. 463	C. H. Jacobus	15 00	258 63
	į.		-)

John H. Keyser	604 50	
John H. Keyser	691 50	3,315 00
	-	\$6,574,016 46

\$687 oo

713 00

619 oo

John H. Keyser.....

John H. Keyser.....

John H. Keyser.....

Pay-rolls of Engineers and Assistants on Sewers, Inspectors on Regulating, Grading Pavements, etc	\$228,870 5
Surveyors, for Fees.	38,421 2
Advertising	. 17,905
Traveling Expenses for Engineers.	1,657 8
Repairing Instruments—Bureau of Sewers.	220 2
Coal and Wood	. 21
Maps	300 3
Wm. Nelson, Jr., Vitrified Stoneware Pipe for Sewers	. 102,850 (
Amount	\$6,964 264 :

RECEIVING BASINS.

One Hundred and Twenty-fifth street, southeast corner of Sixth avenue......

One Hundred and Twenty-fifth street, northeast corner of Sixth avenue.....

One Hundred and Twenty-fifth street, northwest corner of Sixth avenue.....

One Hundred and Twenty-fifth street, southwest corner of Sixth avenue.....

One Hundred and Twenty-fifth street, northwest corner of Seventh avenue......

23

STATEMENT of the Entries in Appendix B, and of Additional Statements relative

	to	From Jan. 1 to April 11, 1872.	TOTAL.
Amount of Requisitions on the Comptroller, drawn by the Commissioner of Public Works during the year, which have been charged to "Arching the Cut in Fourth avenue," "Aqueduct Repairs and Improvements," etc., as entered from folio 205 to folio 233 of this Appendix		\$637,522 64	\$6,964,264 12
Balance due or remaining unpaid on Assessment Lists on April 11, 1871, from Henry Starkweather, Collector of Assessments, which remained in his hands for collection, as stated in his Account Cur- rent, a copy of which is filed in the office of the Commissioner of Public Works this day		3,789,403 53	ф0,904,204 12
Amount of one hundred and eleven new Assessment Lists delivered said Henry Starkweather, Col- lector of Assessments, for collection, between April 11, 1871, and April 11, 1872, as per folio 236 of this Appendix.		4,452,777 19	
Amount of Errors in the Footings of Assessments by Assessors, and charged the Collector of Assessments on various dates		156 00	
Amount of Interest collected by Henry Stark- weather, Collector of Assessments, and charged him, from April 11, 1871, to April 11, 1872 (see folio 236 of this Appendix.)	!	26,237 28	8,268,574 00
			-
		3	\$15,232,838 12

to the Accounts of Henry Starkweather, Collector of Assessments, and others.

	From April 10 to Dec. 31, 1871.	From Jan. 1 to April 11, 1872.	TOTAL.
Amount charged the Appropriations of "Arching the Cut in Fourth avenue," "Aqueduct Repairs and Improvements," etc., during the year, as entered from folio 205 to folio 233 of this Appendix		\$637,522 64	\$ 6,964,264 12
Amounts paid John J. Bradley, City Chamberlain, by Henry Starkweather, Collector of Assessments, from April 11 to December 31, 1871, on Assessments, \$1,570,514.01; and on Interest, \$23,584.54. Total as per folio 236 of this Appendix			\$0,904,204 12
Amounts paid Francis A. Palmer, City Chamberlain, by Henry Starkweather, Collector of Assessments, from January 1 to April 11, 1872, on Assessments, \$79,150,43; and on Interest, \$2,652.74. Total as per folio 236 of this Appendix			•
Amount of Assessment charged Henry Stark- weather, Collector of Assessments, for Riverside Park Opening, and confirmed July 21, 1871, with- drawn.		\$1,675,901 63 2,809,238 00	
Delivered Clerk of Arrrears, from April 11, 1871, to April 11, 1872, on account of Henry Starkweather, Collector of Assessments, as per Receipt of said Clerk of Arrears during said period, 179 Returns of Arrears, as per folio 236 of this Appendix		2,390,900 45	
Amount of Assessments vacated by order of Su- preme Court, copies of orders on file		670,333 71	
Amount of Error in the Footing of Assessments and credited the Collector of Assessments		. 10 00	
Balance due and remaining unpaid April 11, 1872, from Henry Starkweather, Collector of Assessments, on Assessments in his hands for collection.		722,190 21	٠ .
ments, on Assessments in his nands for conection.	,	722,190 21	8,268,574 00
		1	\$15,232,838 12

C. T. McCLENACHAN,

First Book-keeper.

The Collector of Assessments (Henry Starkweather), on the 11th 1871, had charged him one hundred and ninety-six Assessment Lists re	• -	
hands uncollected, amounting in the aggregate to the sum of		
One hundred and eleven Assessment Lists have been delivered him for collection from the 11th day of April, 1871, to the 11th day of April, 1872, amounting to	4,452,777	9
Amount of Interest collected by him during the year	26,237 2	
Amount debited for Errors in Computation by Assessors	156 o	0
	\$8,268,574 O	0
During the year the Collector has been credited with-		
Cash paid City Chamberlain J. J. Bradley \$1,594,098 55		
Cash paid City Chamberlain F. A. Palmer 81,803 08		
Amount of Assessment for Riverside Park Opening, withdrawn		
Delivered Clerk of Arrears one hundred and seventy-		
nine Lists 2,390,900 45		
Amounts vacated by orders of Supreme Court 670,333 71		
Amount Credited for Error in Computation by As-		
sessors 10 00	7,541,383	79
Balance due by Collector on Assessments Uncollected	\$727,190 2	21