

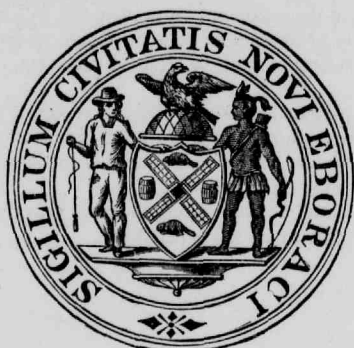
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DEPARTMENT OF PUBLIC WORKS.

Report for the Quarter ending December 31, 1877.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE, CITY HALL,
NEW YORK, February 6, 1878.

Hon. SMITH ELY, Jr., Mayor :

SIR—In accordance with section 27 of the Charter, I have the honor to submit herewith a report of the transactions of this Department for the quarter ending December 31, 1877.

SUMMARY OF EXPENDITURES FOR THE QUARTER.

On account of appropriations raised by taxation	\$458,233 16
On account of Assessment Fund, for street improvements.	190,528 53
On account of Funded Debt, for improvement and extension of water supply	253,244 21
Total.....	\$902,005 90

EXPENDITURES FOR THE CORRESPONDING QUARTERS IN 1874, 1875, AND 1876.

Fourth quarter, 1874.....	\$2,031,695 26
Fourth quarter, 1875.....	\$1,651,926 28
Fourth quarter, 1876.....	\$997,663 37

BUREAU OF CHIEF ENGINEER OF THE CROTON AQUEDUCT.

The heavy rains which occurred in October and November have considerably retarded the work on the new Storage Reservoir on the middle branch of the Croton river, otherwise it would have been fully completed by the 1st of January. Still, the embankment and wall forming the dam have been carried above the flood line; the masonry closing the tunnel has been put in; the gates are in position, so that there is now no obstacle to the filling of the reservoir except the acquisition of the right to overflow the lands of the Tilly Foster mine, the legal proceedings for which are still pending.

Up to October 5 water had to be drawn from Lakes Kirk, Glencida, Waccabuc, Tonetta, China Pond, Long Pond, and Peach Pond, the quantity drawn from the 1st to the 5th of October being 206,000,000 gallons. Since the 5th of October the water has constantly flowed over the Croton dam into the Hudson river.

The surveys for a new reservoir on the east branch of the Croton river are nearly completed, and plans and estimates of the cost will soon be prepared.

The surveys to ascertain the availability and capacity of the Bronx river as an adjunct to the Croton river in supplying the city with water have been completed, and the plans and estimates of cost for utilizing it for our water supply are in preparation.

Further progress has been made in strengthening the Aqueduct where it passes over low lands on embankments, by adding to the side embankments, raising the protection walls, and turning an additional arch over the structure. The appropriation has not been sufficient, however, to permit the prosecution of this necessary work to the extent desired. To meet the present demands of the population the Aqueduct has to carry a much larger volume of water than was originally contemplated, and it is absolutely necessary that the additional strain to which the structure is thus subjected should be promptly met by these measures to give it additional strength.

The plentiful supply furnished by the Croton river since the 5th of October has enabled the Department to refill the depleted reservoirs in the Central Park, and thus to increase the pressure in the delivery of water to its normal force, so that complaints of low pressure in buildings have become comparatively few, and are generally caused by defective plumbing.

Contracts have been made for furnishing and laying pipe authorized by resolutions of the Common Council up to November 1, 1877.

There were laid during the quarter—

1,449	lineal feet of 48-inch pipe.
14,998	" 20-inch pipe.
8,800	" 12-inch pipe.
8,480	" 6-inch pipe.

Total, 33,727 lineal feet of pipe.

166 large and 39 small fire-hydrants were put up.

The application of water-meters in furnishing water to shipping has been extended to all the large and regular consumers occupying regular docks or berths.

The amount collected for water furnished to shipping and for building purposes during the past quarter is \$17,120.36.

On the 20th of November last the inspection of buildings to detect and prevent waste of water had been extended to every building in the city, and many of them had been re-examined to see that the precautions against waste were observed. The re-examinations are still continued with a reduced force of Inspectors, the appropriation having been insufficient to keep the full force employed.

BUREAU OF WATER PURVEYOR.

All the contracts for repaving streets under authority of chapter 476 of the Laws of 1875 have been completed. The new pavements are of a more durable character than the ordinary stone-block pavements heretofore in use, and less liable to be displaced or depressed, and therefore cheaper to maintain. They are especially adapted for heavy traffic, and are a great relief and benefit to street transportation in the lower part of the city, where they have been laid on the worst paved and most frequented thoroughfares.

The mildness of the weather has enabled the Department to continue the repairs of pavements to the close of the year, though the force had to be reduced to keep within the appropriation. The average force employed in pavement repairs during the quarter was 228, including pavers, rammers, laborers, and carts.

Although a vast amount of work remains to be done to put all our streets in good condition, and entirely remove and replace the worn out, decayed, and rough pavements, it may safely be said that more has recently been done in that direction and that the pavements are in better condition than for some years past.

BUREAU OF STREET IMPROVEMENTS.

The following are the principal works of regulating and grading completed during the quarter :

Broadway, from Manhattan to One Hundred and Thirty-third street.
Lexington avenue, from One Hundred and Second street to Harlem river.
Seventy-sixth street, from Third avenue to East river.
Eighty-fifth street, from Avenue A to Avenue B.
Ninety-third street, from the Boulevard to Eighth avenue.
One Hundred and Seventh street, from Fifth avenue to Harlem river.
Tenth avenue, from Eighty-first to Eighty-second street.

Work is now in progress in regulating, grading, etc.—

Fourth avenue, from One Hundred and Second to One Hundred and Tenth street.
Eighth avenue, from One Hundred and Twenty-eighth street to Harlem river.
Tenth avenue, from Ninety-fifth to One Hundred and Tenth street.
Eleventh avenue, from Fifty-ninth to Seventy-second street.
Forty-second street, from Second avenue to East river.
Seventy-first street, from Fifth avenue to East river.
Ninety-sixth street, from the Boulevard to Hudson river.
One Hundred and Third street, from First avenue to Fifth avenue.

In Forty-second street, east of Second avenue, a roadway is being excavated in the centre as an approach to the river, leaving sufficient space on each side for a roadway and sidewalk to the summit at Prospect place, on the grade on which the houses have been built. For the support of the side roadways retaining walls are being constructed, and stone stairways will be built for the accommodation of pedestrians desiring to descend to or ascend from the river side.

The aggregate quantities of work done during the quarter, under the direction of the Bureau of Street Improvements, are—

14,832	cubic yards earth excavation.
10,457	cubic yards rock excavation.
87,516	cubic yards filling put in embankments.
12,192	lineal feet curb and gutter set.
101,390	square feet flagging laid.

BUREAU OF SEWERS.

The sewerage of the city has been improved and extended during the quarter by the construction of 9,594 lineal feet of sewers, 717 lineal feet of culverts and 20 receiving-basins, and the rebuilding of 1,217 lineal feet of sewer and 30 lineal feet of culverts.

The force employed in repairing and cleaning sewers and basins has performed the work efficiently. 1,275 receiving-basins and 3,010 lineal feet of sewers were cleaned; 149 lineal feet of sewers and 41 lineal feet of culverts rebuilt; 84 lineal feet of spur-pipe laid; 8 receiving-basins and 7 man-holes rebuilt; 71 receiving-basins and 53 man-holes repaired; 11 new granite basin-heads, 5 basin covers, 37 man-hole frames and covers, and 28 man-hole covers furnished and set.

BUREAU OF STREETS.

The country roads and unpaved streets in the upper part of the city, which are under the care of this bureau, have been maintained in proper condition for the class of travel for which they are used.

The heavy rains in November did considerable damage to some of the roads, especially to the one leading to Farmers' Bridge, which was completely washed away for a considerable distance. The damage in each case has been promptly repaired. The improvement of Kingsbridge road has been continued. Fifth avenue, from Ninetieth to One Hundred and Twentieth street, has been surfaced with earth and gravel, and compactly rolled, so as to present a smooth and elastic roadway, specially suited for pleasure driving, for which it is now extensively used.

BUREAU OF REPAIRS AND SUPPLIES.

The repairs of public buildings, the daily cleaning of public offices, the supplying of necessary office furniture, fuel, and other requisites to the various Departments, offices, and courts have received proper attention. A new system of ventilation, which has been in use in the Supreme Court Chambers for a year, and has given great satisfaction, has been applied to the rooms used for the General and Special Terms of the Supreme Court and the General Term of the Court of Common Pleas. The ventilation of the old Brown Stone Court-house has also been improved. Extensive repairs and alterations have been made in the heating apparatus of the New Court-house. A contract has been executed for the construction of a new gravel roof over the central part of Washington Market, the contractor guaranteeing the roof for five years against leakage.

BUREAU OF LAMPS AND GAS.

The number of public lamps in the city has been increased during the quarter from 20,787 to 20,917.

The examination of the gas furnished by the several gas companies, by means of photometrical apparatus, has been continued.

The apparatus in Seventy-ninth street was finished and put in operation in October, so that all the companies now supplying gas to the city or to private consumers are subjected to daily tests as to the quality of the gas. The tests continue to show an average quality fully equal to the standard required by the contracts for lighting public lamps.

Regarding the reduction in the cost of lighting public lamps, the extension of gas-mains by the several companies, and other matters of interest, I beg to refer you to the brief review of the operations of the Department for the year 1877, which I give below, and to the report of the Superintendent of Lamps and Gas.

BUREAU OF INCUMBRANCES.

During the quarter 1,474 notices for the removal of articles obstructing streets and sidewalks were served. In twenty-four of these cases, where no attention was paid to the notices, the articles were removed to the Corporation Yard by the Department, and held until redeemed by the owners by payment of the penalty and expenses, or sold at public auction if not redeemed.

The Department also removed from the streets 947 cart loads of stone, dirt, and other refuse materials. This includes the removal of debris from the recent fire in Barclay street, near College place, to make a passageway for vehicles, the street having been completely blocked.

The expense of removals was.....	\$805 24
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And the Department received and paid into the City Treasury—

For redemption of articles seized.....	\$37 63
For articles sold at auction.....	94 10
Total.....	\$131 73

BUREAU OF WATER REGISTER.

There was collected by this bureau and paid into the City Treasury during the quarter—

For Croton water rent.....	\$280,978 86
For penalties on water rents.....	8,292 25
For permits to tap Croton pipes.....	1,829 00
Total.....	\$291,100 11

I deem it proper to conclude this report with a brief review of the work of the Department for the year 1877.

EXPENDITURES FOR THE YEAR 1877.

On account of appropriations raised by taxation.....	\$1,616,035 34
On account of Assessment Fund, for street improvements.....	735,130 76
On account of Funded Debt, for improvement and extension of water supply.....	737,597 20
Total.....	\$3,088,763 30

The following is a statement of the expenditures of the Department for the past seven years :

	1877.	1876.	1875.	1874.	1873.	1872.	1871.
On account of appropriations raised by taxation.....	\$1,616,035 34	\$1,451,023 99	\$1,765,951 02	\$1,627,165 66	\$1,492,631 13	\$1,844,477 46	\$3,175,192 79
On account of Assessment Fund, for street improvements.....	735,130 76	2,018,680 95	3,408,684 75	4,582,572 30	4,295,862 29	2,322,137 37	5,448,429 43
On account of Funded Debt, for improvement and extension of water supply, etc.....	737,597 20	888,390 46	747,116 39	1,399,393 84	1,859,343 01	1,609,597 84	3,137,469 56
Totals.....	\$3,088,763 30	\$4,358,095 40	\$5,921,752 16	\$7,609,131 80	\$7,647,836 43	\$5,776,212 67	\$11,761,091 78
ACCOUNTS.							
On account of appropriations raised by taxation.....							
On account of Assessment Fund, for street improvements.....							
On account of Funded Debt, for improvement and extension of water supply, etc.....							
Totals.....							

During this period the duties of the Department were increased—in 1873, by the consolidation of the city and county governments, placing the county buildings and the furnishing of supplies to county courts and offices under the charge of the Department; and in 1874, by the annexation of the Twenty-third and Twenty-fourth Wards, where miles of Croton pipes have been laid and about 2,500 public lamps maintained out of the appropriations of the Department.

An entirely new item has also entered into the expenditures of the Department for 1877 in the repaving of streets under the Law of 1875.

The constant extension of the water supply and fire-hydrants, the sewerage, pavements, public lamps, erection of new buildings, new floating baths, also entail additional work.

With reduced expenditure all these duties have been discharged, and steady progress has been made, so far as the public welfare requires, in the opening, regulating, and grading of new streets and the extension and improvement of the water supply.

WATER SUPPLY.

During the great drought of last summer and autumn the Department was compelled to put under contribution every available lake and pond in the Croton basin to keep up a sufficient supply of water in the city.

There was drawn during the year from lakes and ponds..... 1,534,800,000 gallons.
From Boyd's Corners Reservoir..... 2,810,000,000 "

Total..... 4,344,800,000 gallons.

The rain-fall at Boyd's Corners Reservoir during the year was 46.03 inches, 17.06 inches of which fell during the last quarter, and only 14.63 inches during the six months from April 1 to September 30.

The expense of obtaining water from lakes and ponds, for privileges of temporary occupation of lands, cutting down outlets, building flumes, etc., was \$17,940.39.

The new Storage Reservoir on the middle branch of the Croton river is now so far completed as to be ready to receive the water. The remainder of the work can be prosecuted and finished without hindrance from the water. The following are the quantities of work done upon it during the year :

11,650 cubic yards earth excavation.	
2,842 " rock excavation.	
269,700 " embankment.	
58 " cut stone masonry.	
10,195 " rubble masonry.	
103 " brick masonry.	
2,755 " dry stone wall.	
400 acres of land cleared.	
35,420 lineal feet fence wall built.	
55,000 feet (B. M.) lumber used.	
10,036 lbs. wrought-iron used.	
5,805 lbs. cast-iron used.	

When the great drought terminated, on the 5th of October, the depth of water in the Central Park Reservoir was reduced to 10½ feet, and of course the pressure in the delivery of the water was

correspondingly diminished, giving rise to many complaints, and causing great inconvenience in many cases. We cannot, and should not, shut our eyes to the evil consequences that would have ensued, if relief by copious rains had been further delayed.

As stated in my last report, no inconvenience would have been experienced or apprehension felt, regarding the water supply, had the new Storage Reservoir, now practically completed, been commenced at the proper time. It is a great satisfaction to know that before another season of drought can arrive, this reservoir will contain an available supply of more than twice the quantity drawn from lakes and ponds last year. Had it been available last season, the city reservoirs would have been kept full and the pressure undiminished.

By the plentiful rain-fall of the last three months, the Park Reservoir was replenished to a depth of 32½ feet on December 31, and the maximum depth of 36 feet will be attained during this month.

The Department will be ready to contract for another storage reservoir, on the east branch of the Croton river, whenever such work shall be deemed necessary, the field surveys for the same being nearly completed.

In a short time I will also be prepared to submit a special report of the result of the surveys and examinations to ascertain the capacity and availability of the Bronx river as an adjunct to the Croton in supplying the city with pure water. The surveys have been completed, and the plans and estimates for the necessary works are now in preparation.

A larger amount of iron pipes has been laid during the past year than during any of the preceding five years, except the year 1873, with far less expenditure.

There was laid in 1877—

9,407 lineal feet of 48-inch pipe.

14,998	"	"	20	"
20,663	"	"	12	"
34,142	"	"	6	"

Total, 79,210 lineal feet of pipe, or fifteen miles—weighing 6,375 tons.

In 1872 there was laid 5,880 tons of pipe.

1873	"	"	9,245	"
1874	"	"	5,768	"
1875	"	"	1,484	"
1876	"	"	3,520	"

The following is a statement of the cost of purchasing and laying Croton pipes for the past six years :

	Average Cost of Pipe per Ton.	Average Cost of Laying per Ton.
In 1872.....	\$65 50	\$70 86
1873.....	65 50	74 16
1874.....	65 50	73 15
1875.....	65 50	115 78
1876.....	46 00	50 55
1877.....	23 75	17 35

The cost of iron pipe has fallen very much within three years, but the reduction in the cost of laying is entirely due to the change from the day's work to the contract system. The contract system was introduced as rapidly as possible in 1876, and was exclusively employed in 1877.

There were also put in position during the year, 293 large and 136 small fire-hydrants, thus greatly increasing the facilities for extinguishing fires.

The total length of Croton pipes now laid in the city is 440 36-100 miles, with 4,153 fire-hydrants.

The measures adopted by the Department to suppress waste of water have produced a very appreciable effect. This is shown not so much in a decrease in the aggregate consumption, but in the improvement in the distribution by increased pressure. The greatest waste always occurred at low points, where the pressure is great, and the higher points were thus deprived of their proper share of the supply.

These measures consist in the application of water-meters to stables, manufacturing establishments, and along the water-front, where water is supplied to shipping, and in the inspection of buildings to detect and prevent leaks and defects in plumbing, or willful waste.

On the 1st of January, 1877, there were in use 260 water-meters, to which were added during the year, 195—making a total of 455 meters now in use.

In 106,577 buildings inspected during the year, water was found to be wasted from 20,791 orifices. In 2,578 cases the waste was due to willful neglect in leaving faucets open, and in 18,213 cases to defective plumbing.

In the two preceding quarterly reports allusion was made to the work of strengthening the Aqueduct to meet the additional strain of carrying the large volume of water required for daily consumption. This work has been prosecuted to the full extent of the means at the disposal of the Department. In thirteen of the places or sections where the Aqueduct is built on embankments, the protection walls have been carried up to a level with the top of the arch, and the side embankments have been strengthened; and on four of these sections an additional arch was turned over the Aqueduct, and the spandrels carried higher.

The business of supplying water to shipping and for building purposes, and the collection of the revenue therefrom, which, up to June 4, 1877, was let out by contract or license, has since been satisfactorily performed by employees of the Department, under the supervision of the Chief Engineer.

The amount annually paid to the city by the contractor was..... \$57,800 00
The amount collected by the Department from June 4 to December 31, 1877, is..... 64,461 01
The cost of collection, for salaries of persons employed, was..... 6,734 99

Net revenue for seven months..... \$57,726 02

Although this increase of revenue is satisfactory, I regard the saving of water which has been effected, and which cannot well be estimated in dollars and cents, as of far greater consequence.

The total amount expended for works, structures, aqueduct, pipes, etc., connected with the water supply of the city, including maintenance and repairs, from its inception to the 1st day of January, 1878, is..... \$34,945,007 94
The total amount of revenue derived from Croton water from its introduction to the 1st day of January, 1878, is..... 30,396,438 91

PAVEMENTS.

During the year 27 paving contracts, covering 214,652 square yards of pavement, were completed, including 105,634 square yards of repaving, under chapter 476, Laws of 1875.

The following shows the area of new pavements laid during the past seven years :

In 1871.....	328,052 square yards.
In 1872.....	119,522 "
In 1873.....	128,377 "
In 1874.....	255,986 "
In 1875.....	116,180 "
In 1876.....	146,200 "
In 1877.....	214,652 "

To the area of pavements laid in 1877 should be added the new work done under the head of repairs. 1,570,000 new stone-blocks were put down in repairing the streets, covering 52,333 square yards.

The amount appropriated for "Repaving"—\$200,000, with \$11,000 transferred to the account from surplus funds on other appropriations of this Department—was applied to the improvement of important thoroughfares in the lower and commercial part of the city, with the exception of Sixth avenue, from Forty-second to Fifty-ninth street, which was also repaved.

It is safe to assert that no other work or improvement which the city has undertaken for years has conferred more benefit in proportion to the expense. Some of the worst pavements have disappeared, and are replaced by smooth and durable stone pavement. The specifications for these new pavements require oblong blocks of greater depth than the ordinary square blocks, and a greater depth of sand for the road-bed, with thorough ramming, producing a reduction in the tractive force required and an increased durability of the pavement.

For the year 1878 the sum of \$300,000 has been appropriated for "Repaving," enabling the Department to make a still greater advance in the improvement of the streets.

No effort has been spared to produce the best possible results with the appropriation for "Repairs" of pavements, which was established at \$150,000, and was increased by transfers from surplus funds on other appropriations of the Department to \$183,000; and while it was, of course, impossible to put all the streets even in passable condition, yet many cases of great urgency have been attended to, and the area of pavements repaired and relaid is much larger, and the repairs are of a more thorough character, than for many years past.

SEWERAGE.

Several important improvements and additions to the sewerage system have been completed during the past year, of which I will mention—

The outlet sewer in One Hundred and Forty-seventh street to Harlem river, which drains the large area bounded by One Hundred and Thirty-third and One Hundred and Forty-eighth streets, Tenth avenue and Harlem river, including a large proportion of low and marshy ground.

The continuation of the outlet sewer in West Ninety-sixth street through the Boulevard, Ninety-eighth street, Ninth avenue and One Hundredth street to Eighth avenue, giving drainage to a large district in which private improvements are well advanced.

The extension of the outlet sewer in James slip, which formerly discharged the sewerage matter into the ferry slip, to the end of the pier.

Work is in progress on an overflow sewer in Fortieth street, from Tenth avenue to the Hudson river; an outlet sewer in Forty-second street, from Third avenue to the East river, requiring 1,400 lineal feet of rock tunneling, now nearly finished; sewers for the district between Ninety-second and One Hundred and Tenth streets, Third avenue and Harlem river; collective sewer in Eleventh avenue, between Sixtieth and Seventy-sixth streets, and in Eighth avenue, between One Hundred and Fifth and One Hundred and Twenty-first streets, with branches in intersecting streets; and other minor improvements.

There were built during the year—

29,804 lineal feet of sewers.

1,810 " culverts.

37 receiving-basins.

1,435 house connections.

The present extent of sewers on Manhattan Island is 362 39-100 miles, with 4,397 receiving-basins.

The sewerage of the Twenty-third and Twenty-fourth Wards is under the charge of the Department of Public Parks.

A further saving has been effected in the expenditure for "Repairing and Cleaning Sewers," as will appear from the following statement of the amounts expended on this account for the past six years:

In 1872.....	\$150,713 02
In 1873.....	138,876 78
In 1874.....	137,834 01
In 1875.....	165,224 68
In 1876.....	81,425 00
In 1877.....	52,300 00

At the same time the work has been promptly and efficiently performed.

OTHER STREET IMPROVEMENTS.

In regulating, grading, and otherwise improving streets, the following quantities of work were done in 1877:

34,645 cubic yards earth excavation.

47,787 " rock " "

368,153 " filling put in embankments.

41,862 lineal feet of curb-stone set.

39,815 " gutter-stone set.

220,298 square feet flagging laid.

3,774 lineal feet fences built.

The boulevard roadways have been maintained in fair condition, with very limited appropriation. In places where steep grades occur, the gutters have been paved with stone blocks to prevent the wasting away of the surface material during heavy rains.

1,296 elm trees and 715 maple trees were planted along the Boulevard, Sixth and Seventh avenues, Avenue St. Nicholas, and One Hundred and Tenth street.

There are now 23 miles of Macadam roadway on Manhattan Island, exclusive of the Park Drives. Under the direction of the Superintendent of Streets, the care of roads and unpaved streets has received proper attention; further improvements were made on Kingsbridge road, and the roadway of Fifth avenue, from Ninetieth to One Hundred and Twentieth street, which was recently regulated and graded, has been surfaced with gravel and rolled, so as to make an excellent pleasure drive.

PUBLIC LAMPS.

A large reduction has taken place in the cost of lighting and maintaining the public lamps on Manhattan Island.

In the Twenty-third and Twenty-fourth Wards the lamps are still lighted and maintained under contracts made prior to the annexation of these wards by the former town authorities.

The following is a statement of the expenditures for public lamps for the past seven years:

	Number of Lamps.	Expenditures.
In 1871.....	18,151	\$1,176,468 74
1872.....	18,016	832,047 07
1873.....	17,818	746,616 34
1874, including Twenty-third and Twenty-fourth Wards.....	20,122	757,009 60
1875.....	20,139	741,150 52
1876.....	20,399	679,349 10
1877.....	20,917	632,576 24

The total expenditure for public lamps and lighting public buildings (including the new wards) for the year 1877 is less than in any one year since 1864, while the number of lamps has been increased by 5,000 in that time.

In December proposals were received and contracts awarded by the Gas Commission for lighting

the public lamps for the four months ending April 30, 1878, at a further reduction in prices, amounting in the aggregate to \$68,985, as compared with the corresponding four months of last year.

The total number of lamps has been increased during the year from 20,399 to 20,917.

727 miles of gas-mains are now laid in the streets of this city, 51 miles of which were laid last year.

MISCELLANEOUS BUSINESS.

By the expiration of the term of office of the Commissioners for the Erection of the Third District Court-house at Jefferson Market, on the first of January, 1877, that building came under the charge of this Department, and on the 21st of March an act was passed by the Legislature, conferring upon the Department the power to complete the building, and to draw upon the funds appropriated for that purpose. The unexpended balance of the fund, however, was insufficient, not only for the completion of the building, but to cover outstanding liabilities and uncompleted contracts. A transfer of \$18,000 from surplus appropriations of this Department was made to cover the deficiency, and the building was completed and has been occupied by the Third District Civil Court and the Second District Police Court since last May.

Mention has already been made in this report of the improvements in the ventilation of the new Court-house and the Brown Stone Building in City Hall Park.

The interior of the old City Hall was renovated at comparatively small expense.

At your request a dog-pound was constructed under the direction of this Department at an expense of \$3,984, paid out of the Department's appropriations.

The six public baths were patronized to their full capacity during the bathing season, the total attendance being 2,556,815.

The removal of obstructions from streets and sidewalks has received proper attention. Notices to remove obstructions, if not obeyed, are promptly followed by the seizure of the articles, and the effect of this system is quite apparent in the greater respect paid to the ordinances relating to obstructions and to the notices issued by the Department.

The power of this Department in the removal of incumbrances and obstructions from streets and sidewalks is, however, not entirely clear. On the 6th of July last the Corporation Counsel, at your request, made a report as to the power of the Common Council to authorize stands or other obstructions on the sidewalks. In this communication the Corporation Counsel says:

"I am not aware that prior to the year 1873 there was any express Legislation on this subject, and the Common Council has for many years been in the habit of granting such permits, assuming, I presume, that they had the right to do so by virtue of general legislative power vested in them by the old charters and acts of the Legislature to pass ordinances relating to the administration of public affairs in this city. Subdivision 4 of section 17 of the Charter of 1873, however, expressly declared that the Common Council 'shall have no power to authorize the placing or continuing of any encroachment or obstruction upon any street or sidewalk, except the temporary occupation thereof during the erection or repair of a building on a lot opposite the same.'"

He then states that the Commissioner of Public Works had been enjoined by the Supreme Court from interfering with the erection of a stand or projection within the stoop-line in Church street, which had been authorized by the Common Council, and that the case had been argued, but was then undecided. The stand or structure here referred to had been removed at my direction, in August, 1876. The owner thereupon obtained a permit for it from the Common Council, and commenced to replace it, when he was notified by the Superintendent of Incumbrances to desist and to remove the stand. He then obtained a temporary injunction, restraining me from interfering with the erection of the structure. No decision has yet been rendered on the motion to continue this injunction, or on the question of the legality of the permit given by the Common Council, and meantime the obstruction or projection has been completed, and I am still restrained from taking any action in the matter.

The erection of stalls or booths in the neighborhood of the markets had caused serious impediment to traffic, and I have caused their removal and shall prevent future encroachments.

The Grand Jury presented as nuisances certain booths which had been erected in Burling slip, under an ordinance of the Common Council. These were forthwith removed by order of the Incumbrance Bureau.

In accordance with the exposition of the Charter, touching incumbrances, by the Counsel to the Corporation, as above quoted (in which I fully concur), I shall prevent to the full extent of my power all illegal encroachments upon the streets and sidewalks of the city.

The standing of carts and wagons in public streets has engaged the attention of the Incumbrance Bureau. Many of these are licensed vehicles, and are authorized by ordinance and by license of the Mayor's Marshal to stand next the curb in front of the premises of their owners. Many, however, occupy the streets without authority, though in streets where they are not complained of, and offer no impediment to travel, long custom seems to have sanctioned the use of the causeway in front of the premises of owners or occupants for standing room during night and Sundays.

Since you received the above quoted opinion of the Corporation Counsel, I understand that you have withheld your approval of ordinances authorizing encroachments or incumbrances on streets.

If the Common Council would take the same view of the question and avoid the passage of resolutions authorizing obstructions, the hands of the executive authorities would be greatly strengthened in putting a stop to the evil.

REVENUE.

The following amounts were collected and paid into the City Treasury by the Department during the year:

For Croton water rent and penalties.....	\$1,463,641 60
For tapping Croton pipes.....	6,688 00
For vault permits.....	34,166 38
For sewer permits.....	16,341 99
For sewer-pipe sold to contractors.....	1,781 52
For removal of obstructions.....	275 50
For work done and materials furnished to citizens.....	1,107 70
For old materials sold at auction.....	997 43

Total\$1,525,000 12

Very respectfully,

ALLAN CAMPBELL, Commissioner of Public Works.

Appendix "A."

Showing Titles of Appropriations; Appropriations and Transfers of 1877; Requisitions, First Nine Months, 1877; Requisitions, Fourth Quarter, 1877; Total Requisitions for 1877; Balances of 1877 on December 31, 1877; and the Titles and Conditions of the "Trust Accounts."

TITLES OF APPROPRIATIONS.	APPROPRIATIONS AND TRANSFERS, 1877.	REQUISITIONS, FIRST NINE MONTHS, 1877.	REQUISITIONS, FOURTH QUARTER, 1877.	TOTAL REQUISITIONS FOR 1877.	BALANCES, DECEMBER 31, 1877.	APPROPRIATIONS FOR 1878.
Aqueduct—Repairs and Maintenance.....	\$103,000 00	\$66,854 22	\$27,310 06	\$94,164 28	\$8,835 72	\$100,000 00
Boulevards, Roads, etc., Maintenance of.....	45,000 00	28,374 31	13,196 23	41,570 54	3,429 46	40,000 00
Contingencies—Department of Public Works.....	2,700 00	1,605 30	674 20	2,279 50	420 50	2,500 00
Flagging Sidewalks and Fencing Vacant Lots, etc.....	1,000 00	201 00	65 00	266 00	734 00	1,000 00
Free Floating Baths.....	7,371 44	5,686 79	1,530 65	7,217 44	154 00	8,000 00
Free Floating Baths, Additional (Special).....	30,130 87	10,384 12	3,187 48	13,571 60	16,559 27	.....
Lamps and Gas.....	933,095 05	439,804 75	146,132 64	585,937 39	47,158 56	600,000 00
Public Buildings—Construction and Repairs, etc.....	43,934 82	27,530 74	11,218 35	38,755 09	5,179 73	35,000 00
Public Drinking Hydrants.....	2,500 00	1,930 07	533 75	2,463 82	36 18	3,000 00
Removing Obstructions in Streets and Avenues.....	104,880 41	66,602 91	30,807 77	97,410 68	469 23	4,000 00
Repairing and Renewal of Pipes, Stop-cocks, etc.....	211,000 00	52,953 25	104,034 82	156,988 07	7,409 73	90,000 00
Repaying under chapter 476, Laws of 1875.....	183,000 00	132,052 63	47,407 91	179,460 54	54,011 93	300,000 00
Repairs and Renewal of Pavements.....	21,500 00	16,772 18	2,683 52	19,455 70	3,539 46	150,000 00
Roads and Avenues, and Sprinkling.....	100,000 00	75,716 11	24,234 01	99,950 12	2,044 30	20,000 00
Salaries—Department of Public Works.....	52,800 00	27,322 42	14,842 25	42,164 67	49 88	95,000 00
Sewers—Repairing and Cleaning.....	1,000 00	623 20	.....	623 20	10,635 33	60,000 00
Street Improvements—For Street Signs, etc.....	102,628 56	71,467 67	28,099 37	99,567 04	376 80	1,000 00
Supplies for and Cleaning Public Offices, etc.....	.....	.....	.....	.....	3,091 52	90,000 00
Supplying Water to Shipping and for Building Purposes.....	.....	.....	.....	.....	638 03	8,000 00
Wells and Pumps—Repairing and Cleaning.....	3,000 00	2,182 40	179 57	2,361 97	.....	3,000 00
Third District Court-house Fund.....	21,563 73	24,803 11	.....	.....	.....	.....
Third District Court-house Fund—Appropriation for 1877.....	18,000 00	6,908 18	1,307 06	33,018 35	6,545 38	.....
Totals.....	\$1,690,105 78	\$1,060,523 61	\$458,233 16	\$1,518,756 77	\$171,349 01	\$1,611,100 00

TRUST ACCOUNTS.	AMOUNT AUTHORIZED BY BOARD OF ESTIMATE AND APPOINTMENT.	AMOUNT CALLED FOR BY COMMISSIONER OF PUBLIC WORKS.	AMOUNT OF REQUISITIONS TO OCTOBER 1, 1877.	AMOUNT OF REQUISITIONS, FOURTH QUARTER, 1877.	AMOUNT AVAILABLE ON JANUARY 1, 1878.
Additional Alterations of Aqueduct, Ninety-third to One Hundred and Thirteenth street.....	\$3,550,000 00	\$3,600,000 00	\$3,598,439 45	.....	\$1,560 55
Additional Alterations of Aqueduct, One Hundred and Eighteenth to One Hundred and Forty-second street..	65,165 57	100,000 00	57,515 93	.....	42,484 07
Boulevards, Roads, etc.—Assessment Fund.....	.....	.....	34,619 71	\$7,560 36	.....
Croton Water Works Extension—High Service, Carmansville.....	.....	185,990 84	165,986 51	.....	20,004 33
Croton Water Works Extension—Storage Reservoir.....	.....	127,729 29	127,418 02	.....	311 27
Croton Water Fund.....	1,100,000 00	1,200,000 00	1,024,797 51	97,475 02	77,227 47
Croton Water-main Fund.....	3,625,000 00	3,750,000 00	3,702,957 80	.....	47,042 20
Croton Water-main Fund, No. 2.....	725,000 00	1,025,000 00	540,021 93	155,429 19	292,548 88
Meter Stock.....	53,500 00	50,000 00	703,012 83*	340 00	321,647 17
Pavement Repair Stock.....	50,000 00	.....	.....	.....	50,000 00
Sewer Repair Stock.....	245,000 00	373,000 00	299,436 97	.....	73,563 03
Street Improvement Fund.....	.....	.....	572,678 44	182,923 17	.....
Water Stock of 1870.....	500,000 00	500,000 00	499,914 37	.....	85 63

* Under litigation of Navarro Meter Contract, \$700,000.

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

Appendix "B."

A Statement in detail of the Requisitions drawn on the Comptroller by the Department of Public Works on the several Appropriations and Trust Accounts subject to its order, during the Quarter ending December 31, 1877.

APPROPRIATIONS.

Acqueduct—Repairs and Maintenance—

Pay-rolls.....	\$20,373 90
Building sand.....	150 00
Building stone.....	772 50
Castings.....	24 11
Cement, etc.....	584 50
Coal.....	3,716 83
Incidentals.....	558 72
Oil, etc.....	910 27
Repairing roof.....	27 71
Repairing tools.....	91 90
Supplies.....	60 92
Taxes.....	18 70
Wood.....	20 00
Total.....	\$27,310 06

Boulevards, Roads, and Avenues, Maintenance of—

Pay-rolls.....	\$11,618 41
Cement and lath.....	21 85
Gravel.....	323 30
Horse.....	200 00
Horsekeeping.....	30 15
Lumber.....	28 80
Office rent.....	96 00
Paving gutters.....	615 81
Sand and clay.....	261 91
Total.....	\$13,196 23

Contingencies—Department of Public Works—

Traveling expenses and postage.....	\$674 20
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Flagging Sidewalks and Fencing Vacant Lots in front of City Property—

No. 592½ Grand street.....	\$65 00
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Free Floating Baths—

Pay-rolls.....	\$1,426 00
Supplies.....	24 65
Towing baths.....	80 00
Total.....	\$1,530 65

Free Floating Baths (Additional)—

Pay-rolls.....	\$2,666 00
Dockage.....	211 64
Repairs.....	114 47
Supplies.....	35 37
Towing baths.....	160 00
Total.....	\$3,187 48

Lamps and Gas—

Pay-rolls.....	\$2,328 00
Barometers and thermometers.....	88 00
Base stones.....	65 00
Columns.....	106 25
Crossheads and irons.....	340 44
Gas-fitting.....	172 73
Glass.....	71 20
Glass signs.....	258 50
Lamps.....	979 25
Lamp globes.....	12 90
Lamp tops.....	100 00
Lamp-posts.....	516 95
repairing.....	86 44

Lighting bath, Bethune street.....	26 16
" Gouverneur street.....	42 00
" Fifth street.....	20 88
" Thirty-seventh street.....	19 71
" Fifty-first street.....	11 57
" One Hundred and Fourteenth street.....	34 92

Lighting Brown Stone Building.....

County Jail.....	437 52
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Court, Second District Civil.....

" Fourth.....	3 84
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" Fifth.....	7 44
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" Sixth.....	5 28
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" Eighth.....	8 88
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" Ninth.....	2 47
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" First District Police.....	235 20
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" Second.....	54 48
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" Third.....	96 96
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" Fourth.....	87 98
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" Fifth.....	18 69
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" Marine.....	7 68
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" Special Sessions.....	1 44
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" Department of Buildings.....	1 92
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City Hall.....	656 16
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Engine-house (High Bridge).....	218 06
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Market, Catharine.....	81 36
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" Centre.....	343 92
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" Clinton.....	304 80
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" Essex.....	151 68
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" Fulton.....	540 00
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" Jefferson.....	139 20
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" Tompkins.....	216 24
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" Union.....	54 00
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" Washington.....	555 02
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" New Court-house.....	800 88
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" Office Corporation Attorney.....	36 48
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" Engineers—Boulevard.....	55
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" Receiver of Taxes.....	297 84
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" Rivington Street Yard.....	5 52
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Lamps and Gas—

Lighting South Gate-house.....	\$14 56
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" Photometrical Rooms.....	3 22
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" streets, Central Gas-light Co.....	17,490 70
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" " Harlem.....	17,692 84
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" " Manhattan.....	27,908 74
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" " Metropolitan.....	26,820 19
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" " New York.....	13,676 33
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" " N. Y. Mutual.....	4,355 68
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" " N. Y. and N. J. Globe Gas-light Co.....	13,621 49
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" " Suburban Gas-light Co.....	12,085 62
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" " Yonkers.....	608 38
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Maps.....	130 00
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Photometer, etc.....	758 00
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Repairs.....	44 05
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Supplies.....	28 74
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Testing apparatus.....	186 75
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Total.....	\$146,132 64
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Public Buildings—Construction and Repairs—

Pay-roll, Carpenters, etc.....	\$793 00
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Armory, Third Regiment.....	120 61
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Brown Stone Building.....	503 29
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City Hall.....	1,780 10
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County Jail.....	130 08
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Court, Third District Civil.....	45 53
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" Fifth.....	7 83
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" Seventh.....	223 30
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" Ninth.....	149 19
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" Tenth.....	10 10
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" First District Police.....	57 46
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" Second.....	293 81
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" Third.....	139 70
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" Fourth.....	793 40
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" Fifth.....	36 52
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Market, Catharine.....	54 04
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" Centre.....	48 91
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" Clinton.....	73 68
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" Essex.....	189 21
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" Fulton.....	59 46
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" Jefferson.....	204 95
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" Tompkins.....	413 41
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" Union.....	19 94
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Miscellaneous.....	152 70
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New Court-house.....	4,584 30
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No. 27 Chambers street.....	41 37
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No. 61 Chatham street.....	32 09
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Office of Engineer, Eighth avenue and One Hundred and Twenty-fifth street.....	84 95
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" Register.....	32 90
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Yard, Gansevoort street.....	57 57
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" Rivington street.....	84 95
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Total.....	\$11,218 35
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Public Drinking-hydrants—

Repairing.....	\$533 75
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Removing Obstructions in Streets and Avenues—

Inspecting.....	\$408 75
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Surveying.....	14 92
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Trucking and labor.....	364 85
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Total.....	\$788 52
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Repairing and Renewal of Pipes, Stop-cocks, etc.—

Pay-rolls.....	\$27,120 13
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Castings.....	55 00
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Coal.....	39 25
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Horsekeeping.....	180 31
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Hydrants.....	618 50
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Iron.....	127 92
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Lumber.....	25 00
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Oil.....	39 20
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Pipe yarn, etc.....	160 36
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Repairing hydrants.....	187 50
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Repairing tools and trucks.....	40 55
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Stop-cocks.....	869 00
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Stop-cock boxes and covers.....	806 00
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Supplies.....	42 30
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Tapping cocks.....	437 50
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Tools.....	59 25
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Total.....	\$30,807 77
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Repairs and Renewal of Pavements—

Pay-rolls.....	\$37,400 69
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Belgian blocks.....	4,620 00
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Carting stone.....	812 41
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Filling.....	138 78
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Flagging stone.....	160 35
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Repairing tools.....	719 40
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Sand.....	3,416 40
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Supplies.....	139 88
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Total.....	\$47,407 91
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Repaving, under Chapter 476, Laws 1875—

Pay-rolls, Inspectors.....	\$1,183 00
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Paving Sixth avenue, between Forty-second and Fifty-ninth streets.....	13,090 00
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" Franklin, Wall, and Rector streets.....	5,397 58
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" Ferry, Spruce, and Nassau streets.....	4,386 35
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" John and Dey streets.....	18,758 96
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" Maiden lane, Liberty, and Cortlandt streets.....	18,067 77
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" Warren and Murray streets.....	13,982 23
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" Washington and Pearl streets.....	15,441 97
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" West Broadway and College place.....	13,726 97
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Total.....	\$104,034 82
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Roads and Avenues, and Sprinkling—	
Pay-rolls.....	\$2,547 92
Repairing tools.....	135 60
Total.....	\$2,683 52

Salaries—Department of Public Works—	
Pay-rolls.....	\$24,234 01

Sewers—Repairing and Cleaning—	
Pay-rolls.....	\$10,879 85
Basin heads.....	510 00
Brick and cement.....	369 75
Flagging stone.....	96 25
Granite curb-stone.....	29 00
Lumber.....	33 00
Man-hole frames and covers.....	737 07
Rebuilding sewers.....	1,995 00
Rope.....	15 40
Road boxes.....	38 50
Tools.....	168 43
Total.....	\$14,842 25

Supplies for and Cleaning Public Offices, etc—	
Pay-rolls.....	\$23,112 67
Board of Assessors.....	16 75
Brown Stone Building.....	20 87
City Hall.....	169 61
County Jail.....	157 70
Court, First District Civil.....	13 69
“ Second “.....	89 72
“ Third “.....	62 55
“ Fourth “.....	117 79
“ Fifth “.....	65 60
“ Sixth “.....	41 82
“ Seventh “.....	178 05
“ Eighth “.....	81 70
“ Ninth “.....	6 50
“ Tenth “.....	134 00
“ First District Police.....	7 68
“ Second “.....	402 62
“ Third “.....	111 43
“ Fourth “.....	260 58
“ Fifth “.....	135 50
“ Sixth “.....	82 79
“ Common Pleas.....	40 50
“ General Sessions.....	116 59
“ Marine.....	264 45
“ Special Sessions.....	34 43
“ Superior.....	259 75
“ Supreme.....	171 80
Department of Buildings.....	32 37
“ Finance.....	84 48
“ Public Works.....	741 81
Dog Pound.....	13 68
New Court-house.....	87 12
Office, Corporation Attorney.....	33 66
“ County Clerk.....	4 00
“ Mayor.....	55 20
“ Miscellaneous.....	652 25
“ Public Administrator.....	20 75
“ Register.....	25 00
“ Sheriff.....	50 00
“ Surrogate.....	95 49
Photometrical Rooms.....	20 54
Third District Court-house.....	3 70
Yard, Gansevoort street.....	4 25
“ Rivington street.....	17 93
Total.....	\$28,099 37

Third District Court-house—	
Carpenters' repairs.....	\$380 34
Elevator.....	200 00
Flagging and paving.....	274 76
Gas.....	181 89
Painting.....	122 07
Removing ashes.....	48 00
Superintendence.....	100 00
Total.....	\$1,307 06

Wells and Pumps—Repairing and Cleaning—	
Repairing.....	\$179 57

RECAPITULATION OF APPROPRIATIONS.

Aqueduct—Repairs and Maintenance.....	\$27,310 06
Boulevards, etc., Maintenance of.....	13,196 23
Contingencies—Department of Public Works.....	674 20
Flagging and Fencing in front of City Property.....	65 00
Free Floating Baths.....	1,530 65
“ (Additional).....	3,187 48
Lamps and Gas.....	146,132 64
Public Buildings—Construction and Repairs.....	11,218 35
Public Drinking Hydrants.....	533 75
Removing Obstructions in Streets and Avenues.....	788 52
Repairing and Renewal of Pipes, Stop-cocks, etc.....	30,807 77
Repairs and Renewal of Pavements.....	47,407 91
Rapaving under Chapter 476, Laws 1875.....	104,034 82
Roads and Avenues, and Sprinkling.....	2,683 52
Salaries—Department of Public Works.....	24,234 01
Sewers—Repairing and Cleaning.....	14,842 25
Supplies for and Cleaning Public Offices, etc.....	28,099 37
Third District Court-house.....	1,307 06
Wells and Pumps—Repairing and Cleaning.....	179 57
Total.....	\$458,233 16

TRUST ACCOUNTS.

CROTON WATER FUND.

Pay-rolls.....	\$7,890 44
Building bridge.....	24 59
“ flume.....	100 00
“ reservoir.....	62,109 90
Cast-iron pipe.....	8,453 13
Damages for drawing water.....	141 43
Drawing water.....	4,610 00
Horsekeeping.....	201 50
Incidentals.....	95 40
Iron.....	49 55
Opening outlets.....	4,413 28
Rent of mill seat.....	375 00
“ office.....	65 00
Services of agent.....	150 00
“ attorney.....	5,312 37
Stop-cocks.....	2,820 00
Supplies.....	383 88

Taxes.....	\$133 68
Tools.....	74 78
Traveling expenses.....	71 09
Total.....	\$97,475 02

CROTON WATER-MAIN FUND NO. 2.	
Pay-rolls.....	\$26,425 12
Cast-iron pipe, etc.....	93,796 24
Horsekeeping.....	100 00
Hydrant boxes.....	550 00
Hydrants.....	2,497 50
Inspecting pipe at foundries.....	952 00
Laying mains by contract.....	24,354 01
Lumber.....	139 68
Oil.....	57 43
Stop-cock boxes and covers.....	1,176 50
Stop-cocks.....	4,647 75
Traveling expenses.....	72 46
Trucking stone.....	535 00
Washers.....	27 50
Waste-cocks.....	98 00
Total.....	\$155,429 19

METER STOCK.	
Water meters.....	\$340 00

STREET IMPROVEMENT FUND.	
Crosswalks—	
Corner Seventy-fifth street and Fourth avenue, Patrick Burns.....	\$211 68
Corner Eighty-first street and Fourth avenue, Patrick Burns.....	202 50
Total.....	\$414 18

Curb, Gutter, and Flagging—	
North side Washington street, between Gansevoort and Little West Twelfth streets, Michael Mahoney.....	\$652 58
North side Fifty-sixth street, between Sixth and Seventh avenues, J. B. Healy.....	26 46
North side Fifty-eighth street, between Eighth and Ninth avenues, G. F. Doak.....	252 45
South side Fifty-eighth street, between Broadway and Seventh avenue, Michael Mahoney.....	178 56
Seventy-sixth street, between Avenue A and East river, John Slattery.....	1,831 85
South side Seventy-ninth street, between Ninth avenue and Boulevard, Lawrence Rock.....	648 28
North side One Hundred and Twentieth street, between Avenue A and East river.....	321 72
Total.....	3,911 90

Fencing—	
North side Fiftieth street, between Lexington and Fourth avenues, Patrick Burns.....	\$32 30
One Hundred and Eighteenth street, between First and Second avenues John B. Healy.....	55 50
Total.....	87 80

Paving—	
Broadway, between Manhattan and One Hundred and Thirty-third streets, G. F. Doak.....	\$6,053 37
Fourth street, between Lewis and Mangin streets, C. P. Devlin.....	1,995 16
Fifty-sixth street, between Madison and Fourth avenues, John Slattery.....	1,901 56
Total.....	9,950 09

Receiving-basins—	
Corners Madison and Fourth avenues and Sixty-fifth street, J. H. McCabe.....	51 60

Regulating, Grading, etc—	
Lexington avenue, between One Hundred and Second street and Harlem river, Michael Gavin.....	\$18,480 16
Lexington avenue, between One Hundred and Second street and Harlem river, G. Palmer.....	950 05
Fourth avenue, between One Hundred and Second and One Hundred and Tenth streets, E. Bradburn.....	1,709 40
Eighth avenue, between One Hundred and Twenty-eighth street and Harlem river, Mills & Ambrose.....	9,758 00
Tenth avenue, between Ninety-fifth and One Hundred and Tenth streets, John Slattery.....	1,057 00
Sixty-second street, between Tenth and Eleventh avenues, John Wyberd.....	1,050 00
Seventy-first street, between Fifth avenue and East river, Herman Polye.....	2,463 30
Seventy-eighth street, between Ninth avenue and Boulevard, Patrick Mulholland.....	1,110 90
Eighty-second street, between Avenues A and B, J. B. Devlin.....	1,425 37
Ninety-third street, between Eighth avenue and Boulevard, J. Mulholland.....	6,259 98
Ninety-sixth street, between Boulevard and Hudson river, A. Dowdney.....	1,372 00
One Hundred and Seventh street, between Fifth avenue and Harlem river, Patrick Farley.....	19,577 20
One Hundred and Fifty-second street, between Avenue St. Nicholas and Boulevard, J. A. Bouker.....	2,871 21
Total.....	68,084 57

Retaining Wall—	
Forty-seventh street, between First and Second avenues, J. R. Byron.....	1,084 82

Sewers—	
James slip and South street extension, J. H. McCabe.....	\$26 80
Boulevard, Ninety-eighth street, etc., J. Mulholland.....	1,470 20
Broadway, between Manhattan and One Hundred and Thirty-third streets, R. & J. Cunningham.....	243 80
First avenue, between Ninety-second and One Hundred and Tenth streets, J. C. Dowling.....	9,771 95
Fifth avenue, between Thirty-fifth and Thirty-sixth streets, Lawrence Rock.....	511 40
Eighth avenue, between Ninety-second and One Hundred and Fifth streets, Alexander Lutz.....	8,806 70
Tenth avenue, between Fifty-seventh and Fifty-ninth streets, John Bulger.....	2,021 12
Tenth avenue, between Seventy-seventh and Eighty-first streets, Bart. Noonan.....	2,562 70
Tenth avenue, between One Hundred and Tenth and Manhattan streets, J. Mulholland.....	521 20
Eleventh avenue, between Sixty-sixth and Seventy-sixth streets, Crimmins & Dowdney.....	7,493 50
Fortieth street, between Tenth avenue and Hudson river, Devlin & McKim.....	4,046 00
Forty-second street, between Third avenue and East river, J. Mulholland.....	6,681 22
One Hundred and Twenty-seventh street, between Sixth avenue and Summit, west, G. Palmer.....	403 10
One Hundred and Twenty-seventh street, between Seventh avenue and Summit, east, G. Palmer.....	676 75
One Hundred and Forty-seventh street outlet, Alexander Lutz.....	24,006 68
One Hundred and Fifty-second street, between Boulevard and Hudson river, Abraham Dowdney.....	197 40
Total.....	69,448 52

Pay-rolls, Engineers, Sewers.....	\$14,227 98
" Inspectors, Paving.....	217 00
" " Regulating, Grading, etc.....	5,576 00
" " Sewers.....	3,931 00
Supplies, etc.....	371 74
Surveying.....	4,173 72
Total.....	\$181,522 92

STREET IMPROVEMENT FUND, ABOVE FIFTY-NINTH STREET.

Ninety-sixth street, between Second and Fifth avenues—	
Pay-rolls.....	\$378 60
Filling.....	83 75
Horsekeeping.....	20 67
	\$483 02
One Hundred and Tenth street, between Boulevard and Riverside Drive—	
Pay-rolls.....	178 54
One Hundred and Twenty-fourth street, between Avenue A and Sixth avenue—	
Pay-rolls.....	159 33
One Hundred and Twenty-fourth street Superstructure—	
Pay-roll.....	59 73
First avenue, between Eighty-sixth and One Hundred and Sixteenth streets—	
Pay-rolls.....	\$151 79
Filling.....	5,703 44
Horsekeeping.....	19 68
	5,874 91
Boulevard Sewers, 13 B—	
Pay-roll.....	25 88
Boulevard Sewers, 1 D—	
Pay-roll.....	21 93
Boulevard Planting—	
Pay-roll.....	\$38 23
Horsekeeping.....	1 89
Lath.....	1 48
	41 60
Avenue St. Nicholas Planting—	
Pay-rolls.....	\$17 19
Horsekeeping.....	1 92
	19 11
One Hundred and Tenth street Planting—	
Pay-rolls.....	\$305 39
Horsekeeping.....	7 86
	313 25
Sixth Avenue Planting—	
Pay-rolls.....	\$402 33
Horsekeeping.....	1 86
	404 19
Seventh Avenue Planting—	
Pay-rolls.....	\$733 77
Horsekeeping.....	1 10
Trees.....	249 43
	984 30
Total.....	\$8,565 79

STREET IMPROVEMENT FUND—TELFORD PAVEMENT.

New avenue, between One Hundredth and One Hundred and Tenth streets—	
Pay-roll.....	\$27 64
Horsekeeping.....	3 53
	\$31 17
New avenue, between One Hundred and Fourteenth street and Avenue St. Nicholas—	
Pay-rolls.....	\$17 57
Horsekeeping.....	2 04
	19 61
One Hundred and Twenty-second street, between Tenth avenue and Riverside Drive—	
Pay-rolls.....	29 71
One Hundred and Fifty-second street, between Avenue St. Nicholas and Boulevard—	
Pay-rolls.....	\$253 68
Surveying.....	105 65
	359 33
Total.....	\$439 82

RECAPITULATION—TRUST ACCOUNTS.

Croton Water Fund.....	\$97,475 02
Croton Water-main Fund No. 2.....	155,429 19
Meter Stock.....	340 00
Street Improvement Fund.....	181,522 92
" " Above Fifty-ninth Street.....	8,565 79
" " Telford Pavement.....	439 82
Total.....	\$443,772 74

GENERAL SUMMARY.

Appropriations.....	\$458,233 16
Trust Accounts.....	443,772 74
Grand Total.....	\$902,005 90

DEPARTMENT OF PUBLIC WORKS,
CHIEF ENGINEER'S OFFICE, CITY HALL,
NEW YORK, January 7, 1878.

ALLAN CAMPBELL, Esq., Commissioner of Public Works:

SIR—I have the honor to report that during the quarter ending December 31, 1877, there has been expended in this bureau for work done and materials furnished, and for which bills have been transmitted, as follows:

Aqueduct—Repairs and Maintenance.....	\$27,310 06
Contingencies—Department of Public Works.....	114 00
Croton Water Fund.....	97,475 02
Croton Water-main Fund No. 2.....	137,113 89
Meter Stock.....	340 00
Repairing and Renewal of Pipes, Stop-cocks, etc.....	11,972 61
	\$274,325 58

And for the year 1877.

Aqueduct—Repairs and Maintenance.....	\$108,564 30
Contingencies—Department of Public Works.....	320 11
Croton Water Fund.....	343,412 11
Croton Water-main Fund No. 2.....	247,718 39
Meter Stock.....	3,352 83
Repairing and Renewal of Pipes, Stop-cocks, etc.....	35,431 29
Additional Alterations, Aqueduct, Ninety-third to One Hundred and Thirteenth street.....	10,408 89
Croton Water Works Extension, High Service, Carmansville.....	1,914 29
	\$751,122 21

PROCURING WATER.

At the new dam on the middle branch of the Croton river the work was much retarded during the months of October and November by the frequent and heavy rains, making the bank so muddy that it was impossible to cart on it during a great portion of the time, thereby preventing its completion by the 1st of January, but the weather in December was exceptionally favorable for doing work and the bank was brought up two feet above the flow line when this work was suspended. The work of laying masonry in the centre wall was suspended on the 27th of November, the wall having been built to a point one foot above the flow line, and two feet above the spill-way as excavated in the rock around the dam.

The masonry closing the tunnel has been put in, the pipes through the same, and the gates for drawing the water put in, so that whenever the question of flooding the lands in the upper portion of the reservoir is decided, the gates can at once be closed. The water was kept out of the tunnel by putting in stop-plank in the tower and has flooded a portion of the reservoir lands, but will now be allowed to pass through the pipes, and the water will be raised no higher without further orders.

The roads around the reservoir, built to take the place of those which will be flooded when the reservoir is filled, are all completed except a little trimming at a few points which will not interfere with the travel. The fence walls are nearly completed, except on the Tilly Foster Mine Company's property, where they are being built as fast as possible. On the 24th October the buildings within the boundaries of the reservoir were sold, at public auction, and are about all removed except those occupied by the contractors, and which are near the flow line, from which they can quickly be removed when necessary.

The legal proceedings for procuring the lands to be overflowed belonging to the Tilly Foster Iron Mine Company are still pending.

During the last quarter there has been put in 57,800 cubic yards of embankment and 3,350 cubic yards of masonry, and during the year 1877 the following work has been done on the reservoir:

50 cubic yards of earth excavation.	
2,150 " rock excavation.	
226,400 " embankment.	
50 " cut stone masonry.	
8,995 " rubble masonry.	
103 " brick masonry.	
140 " dry stone wall.	
13,000 feet (B. M.) yellow pine in stop-plank and screens.	
3,360 pounds wrought-iron in tower stop-plank, etc.	
400 acres of reservoir lands cleared.	
11,600 cubic yards of earth excavated in roads.	
692 " rock excavated in roads.	
43,300 " embankment excavated in roads.	
1,200 " rubble masonry in roads.	
2,615 " dry wall in roads.	
35,420 lineal feet of fence wall built.	
33,200 feet (B. M.) white pine timber in bridges.	
9,010 " and chestnut in bridges.	
6,676 pounds of wrought-iron in bridges.	
5,805 " cast-iron in bridges.	

The extreme drought extending through July, August, and September terminated on the 5th October, when the heavy rains which commenced on the night of the 4th rendered all further work in cutting down outlets and drawing water from the lakes unnecessary. Since that time the Croton river has furnished an abundant supply, much more than the Aqueduct could bring to the city, the water since the 10th October having constantly ran over the Croton dam.

Between the 1st and 5th October water was drawn from the natural lakes, as follows:

Kirk Lake.....	90,000,000 gallons.
Glenside.....	15,000,000 "
China Pond.....	26,000,000 "
Long ".....	15,000,000 "
Peach ".....	15,000,000 "
Lake Waccabuc.....	25,000,000 "
Lake Tonetta.....	20,000,000 "

And during the year there has been drawn from—

Lake Waccabuc.....	115,000,000 gallons.
Cross Pond.....	90,000,000 "
Haines' ".....	40,000,000 "
Peach ".....	70,000,000 "
Lake Tonetta.....	20,000,000 "
" Gilead.....	170,000,000 "
" Mahopac.....	380,000,000 "
Kirk Lake.....	90,000,000 "
Lake Glenside.....	140,000,000 "
Barret Pond.....	160,000,000 "
China ".....	26,800,000 "
Long ".....	50,000,000 "
Pine ".....	84,000,000 "
White ".....	99,000,000 "
Boyd's Corners Reservoir.....	2,810,000,000 "

4,344,800,000 gallons.

The amount expended in procuring water from the natural lakes was..... \$17,940 39

The rain-fall at Boyd's Corners Reservoir was—in October, 8.38 inches; in November, 8.16 inches, and in December, 1.52 inches, and during the year, 46.03 inches.

The surveys for another dam on the east branch of the Croton are progressing rapidly, and in a few weeks a plan and estimate of the costs, with a map showing the lands proposed to be taken, will be prepared.

The survey of the upper waters of the Bronx river, its water-shed, and its available capacity for furnishing an additional supply of water to that brought into the city from the Croton river, has been completed, and the maps, plans, and estimates are being prepared and will be submitted during the month.

AQUEDUCT—REPAIRS AND MAINTENANCE.

The work of strengthening the Aqueduct in its weaker places on embankments by turning another arch over the old and raising the spandrels was continued with a small force until frost prevented further progress in mason work.

The limited amount appropriated for repairs has prevented as much of this work being done during the year as was desirable. The necessity of running over seven feet of water in the Aqueduct brings a strain upon the upper arch not provided for in the original construction. When the Aqueduct was built 30 imperial or 37½ U. S. gallons for each inhabitant of a city was considered a liberal supply, being more than was used in any known city at that time. Now, with the increased uses, we bring in through the Aqueduct about 90 gallons for each inhabitant daily, while the city of Washington uses 160 and Chicago over 100.

The water in the reservoirs, reduced during the drought last summer, has again been restored. This has been done slowly, as the daily consumption is now nearly equal to the capacity of the Aqueduct, and it is necessary that great care be taken to prevent any failure of the Aqueduct, requiring the water to be shut off for repairs, thus necessitating the consumption of the stored water and the delay in refilling the reservoirs.

The protection walls in the glen at Yonkers has been so far completed as to render the Aqueduct now safe from the excavations of the adjacent land-owners. The fences have been kept in good repair, the ditches cleaned out, and the whole line put in good order for the winter.

During the past year, on thirteen of the embankments a portion of the earth covering has been removed from the top to the sides of the arch, the protection having been carried higher where necessary to retain the earth, and on four of these banks an extra arch has been turned and the spandrels carried higher. In the glen at Yonkers 621 cubic yards of retaining wall laid in cement and 1,038 cubic yards of protection wall were built, and on other portions of the line 1,670 cubic yards of protection wall has been put up.

LAYING WATER-PIPES.

A contract for 2,500 tons pipe and special castings, at \$22.25 for straight and \$40 for branches, and special castings, and two contracts for laying same, have been made, which include all of the small pipes authorized to be laid by the Common Council up to November 1, 1877.

Contracts for laying pipes in Mercer street, between Canal and Eighth streets; in Crosby street, between Howard and Bleecker streets; in One Hundred and Thirty-fourth street, between Willis avenue and Brown place; in Fifty-fourth street, between First avenue and Avenue A; in Ninetieth street, between Second and Third avenues; in One Hundred and Forty-fifth street, between Third avenue and One Hundred and Forty-sixth street; in One Hundred and Forty-sixth street, between College and Ryder avenues; in Eleventh avenue, between Sixtieth and Sixty-third streets; in Ninety-sixth street, between Eighth and Ninth avenues; in One Hundred and Sixth street, between Boulevard and Ninth avenue; in One Hundred and Eighth street, between Third and Fourth avenues; in Ninety-ninth street, between Eighth and Tenth avenues; in Seventy-fifth street, between Fourth and Lexington avenues; in First avenue, between Forty-eighth and Seventieth streets; in Washing-

ton square, between Waverley place and Fourth street; in Fourth street, between South Fifth avenue and Wooster street; in Wooster street, between Fourth and Houston streets; in Waverley place, between Fourth and Tenth streets, and for placing large hydrants on Vesey, Barclay, Murray, Warren, Reade, Duane, Thomas, Worth, Franklin, White, and Lispenard streets, between Church and West Broadway, have been completed.

One gang of men is at work placing hydrants on large mains on Broadway, Mott, and other streets, where asked for by the Fire Department.

AMOUNT OF PIPE LAID.

48-inch pipe.....	1,449 lineal feet.
20 " ".....	14,998 "
12 " ".....	8,800 "
6 " ".....	8,480 "

Total for quarter..... 33,727 lineal feet.

166 large hydrants placed.
39 small " "

AMOUNT OF PIPES LAID IN 1877.

48-inch pipe.....	9,407 lineal feet.
20 " ".....	14,998 "
12 " ".....	20,663 "
6 " ".....	34,142 "

Total for the year..... 79,210 lineal feet.

293 large hydrants placed.
136 small " "

AMOUNT OF PIPE LAID IN THE CITY DECEMBER 31, 1877.

48-inch pipe.....	58,131 lineal feet.
36 " ".....	69,519 "
30 " ".....	41,420 "
24 " ".....	11,542 "
20 " ".....	164,592 "
16 " ".....	17,130 "
12 " ".....	509,848 "
10 " ".....	6,629 "
6 " ".....	1,418,133 "
4 " ".....	28,239 "

Total..... 2,325,183 lineal feet.

—44c.36 miles.
Small hydrants, 3,678.
Large " 475.

ANNEXED IS A STATEMENT OF THE LOCATION OF PIPES LAID AND HYDRANTS PLACED DURING THE YEAR 1877.

Furnishing Water to Shipping and for Building Purposes.

The necessary inspection of the pipes on the wharves and piers and of the use of water by parties along the river front and for building purposes has been continued. All of the large consumers on the river-front having regular berths or docks are now furnished with water through meters, 62 now being in use for this purpose.

144 permits have been issued for the use of water for shipping, amounting to..... \$5,486 72
Amount measured by meter..... 11,633 64

Total..... \$17,120 36

164 permits have been issued for the use of water for building purposes, amounting to.. \$3,383 80

And from June 5, 1877, to December 31, 1877, 782 permits for water to shipping, amounting to..... \$41,344 26
For water, measured by meter, to shipping..... 14,409 45
412 permits for water for building purposes, amounting to..... 8,707 30

Total..... \$64,461 01

INSPECTION OF PLUMBING IN BUILDINGS.

Examination of the plumbing in buildings to stop the waste of water has been continued since the 20th of November with a reduced force, all of the buildings in the city having been once inspected at that time. Re-examinations are now made to see that parties using the water have made the necessary repairs, and as a check on the negligence and carelessness of parties who leave faucets open when not using the water, as follows:

REPORT OF EXAMINATIONS

Made by Inspectors relative to Leaky Fixtures and Waste of Water, from October 1 to December 31, 1877.

DISTRICT.	Whole Number of Buildings Inspected.	Number in which Plumbing was Defective or Water Wasted.	FAUCETS.		WATER CLOSETS OR URINALS.		HYDRANTS IN YARDS.		PIPES BURST.	BALL-COCKS WANTED.
			Leak.	Waste.	Leak.	Waste.	Leak.	Waste.		
First.....	702	81	50	13	..	42	..	1	3	..
Second.....	555	96	48	..	..	9	39	..	..	..
Third.....	267	23	24	4	..	1	1	2	..	..
Fourth.....	792	63	57	2	..	..	..	4	..	..
Fifth.....	1,039	108	86	18	1	6	..	..	..	..
Sixth.....	882	149	136	1	14	..	..	..	..	..
Seventh.....	1,254	190	298	..	1	6	..	1	..	..
Eighth.....	1,206	290	370	1	4	1	8	..	1	..
Tenth.....	1,282	238	293	6	30	5	29	4	1	..
Twelfth.....	435	72	64	..	..	3	2	4	..	..
Fourteenth.....	960	184	85	..	22	10	17	..	1	..
Fifteenth.....	707	93	83	1	1	..	9	..	..	..
Sixteenth.....	1,213	281	443	..	89	1	5	..	..	..
Eighteenth.....	3,112	567	708	1	18	5	12	1	4	..
Twentieth.....	14,479	2,435	2,655	46	169	103	128	19	12	..

SUMMARY

For the Year 1877.

	Whole Number of Buildings Inspected.	Number in which Plumbing was Defective or Water Wasted.	FAUCETS.		WATER CLOSETS OR URINALS.		HYDRANTS IN YARDS.		PIPES BURST.	BALL-COCKS WANTED.
			Leak.	Waste.	Leak.	Waste.	Leak.	Waste.		
March 31.....	42,169	4,923	4,305	399	295	607	94	222	109	237
June 30.....	30,626	5,299	5,741	240	304	461	168	84	82	34
September 30.....	19,263	3,061	3,245	66	234	291	185	40	39	5
December 31.....	14,519	2,435	2,585	46	169	103	128	19	12	..
Total.....	106,577	15,718	15,876	751	1,002	1,462	575	365	242	276

WATER METERS.

Meters are now being placed on the livery and sale stables in the city.
The following is a statement of those in use on the 31st December, 1877:

	% INCH.	1 INCH.	1½ INCH.	2 INCH.	3 INCH.	4 INCH.	TOTAL.
General Manufacturing.....	7	119	3	61	20	5	215
Livery Stables.....	..	65	..	..	..	..	65
Hotels.....	..	4	..	1	..	..	5
Ferry Houses.....	..	3	..	..	..	..	3
Sugar Refineries.....	..	4	1	9	2	..	16
Baths.....	..	8	..	1	..	..	9
Breweries.....	..	8	..	3	..	..	11
Gas Companies.....	..	9	1	8	1	..	22
Car and Stage Stables.....	..	27	8	..	4	..	47
Piers.....	..	2	..	12	27	21	62
Total.....	7	249	13	98	61	27	455

The question of waste in the use of water is one about which people have different ideas, and about which they may well differ. With the modern construction of houses having bath-rooms and water-closets on each floor, and having direct connection from each with the sewer, it becomes necessary to pass large quantities of water through the pipes to remove the sewage from the premises. Many dwellings are erected by men who build to sell, putting in inferior plumbing and making imperfect connections with the sewer.

From these dwellings complaints are made continuously of the sewers or water-mains, when the real trouble is with the imperfect work in the building. Then water is allowed to run constantly to drive out the smell from the sewer imperfectly connected and not properly trapped, thus using the Croton water to counteract the result from defective plumbing. The water-pipes leading into the building are frequently laid just beneath the pavement where the foundation is rock, necessitating the constant waste of water in cold weather to prevent freezing.

These difficulties can only be avoided in the future by this Department having a direct supervision over the laying the pipes from the water-mains and sewers to the houses, supervising the materials used, the placing them at the proper depth, and the fitting the trench and properly restoring the pavements, now so imperfectly done.

The cost of such supervision would be light, while the benefit to the health and comfort of the occupants would be great.

Very respectfully, yours,

JOHN C. CAMPBELL,
Chief Engineer Croton Aqueduct.

LOCATIONS OF PIPE LAID FROM JANUARY 1 TO DECEMBER 31, 1877.

Forty-eight-inch Pipe.

First avenue, between Forty-fifth and Seventy-ninth streets.
First avenue, between Thirty-seventh and Thirty-ninth streets.

Twenty-inch Pipe.

Washington square, between Waverley place and Fourth street.
Fourth street, between South Fifth avenue and Wooster street.
Wooster street, between Fourth and Houston streets.
Third avenue, between One Hundred and Sixty-first street and Tremont.

Twelve-inch Pipe.

Courtland avenue, between Third avenue and One Hundred and Fifty-fourth street.
Fourth avenue, east side, between Eighty-seventh and Ninety-fourth streets.
Fourth avenue, east side, between One Hundred and Third and One Hundred and Fourth streets.
Fourth avenue, east side, between One Hundred and Twenty-third and One Hundred and Twenty-fourth streets.
Fourth avenue, east side, between Seventy-fourth and Seventy-fifth streets.
Fourth avenue, west side, between Seventy-fourth and Seventy-fifth streets.
Fourth avenue, west side, between Seventy-seventh and Seventy-eighth streets.
Fourth avenue, west side, between Eighty-second and Ninety-fourth streets.
Fourth avenue, west side, between One Hundred and Thirty-third and One Hundred and Thirty-fourth streets.
Fourth avenue, west side, between One Hundred and Twenty-third and One Hundred and Twenty-fourth streets.
Ninth avenue, between One Hundredth and One Hundred and First streets.
Boulevard, east side, between One Hundred and Twenty-third and Manhattan streets.
Eleventh avenue, between Sixtieth and Sixty-third streets.
Crosby street, between Bleeker and Howard streets.
Mercer street, between Canal and Eighth streets.
Third avenue, between One Hundred and Fifty-eighth and One Hundred and Sixty-first streets.
University place, between Fourth and Tenth streets.
Willis avenue, between One Hundred and Thirty-first street and Boulevard.

Six-inch Pipe.

One Hundred and Twenty-third street, between Fourth and Madison avenues.
Sixty-sixth street, between Tenth avenue and Boulevard.
One Hundred and First street, between Ninth avenue and Boulevard.
One Hundred and Thirty-fourth street, between Fourth and Fifth avenues.
One Hundred and Twenty-fourth street, between First avenue and Avenue A.
Avenue A, between One Hundred and Twenty-third and One Hundred and Twenty-fourth streets.
Tenth avenue, between Fifty-seventh and Fifty-eighth streets.
Fifty-seventh street, between Seventh and Tenth avenues.
One Hundred and Thirty-fifth street, between Willis and Brook avenues.
One Hundred and Thirty-seventh street, between Willis and Alexander avenues.
Eighty-first street, between Boulevard and Riverside avenue.
Boulevard, west side, between One Hundredth and One Hundred and Eighth streets.
Seventy-sixth street, between Boulevard and Riverside avenue.
Broadway, between One Hundred and Thirtieth and One Hundred and Thirty-third streets.
One Hundred and Thirty-third street, between Broadway and Boulevard.
Seventy-seventh street, between Fourth and Madison avenues.
Sixty-ninth street, between Avenue A and First avenue.
Avenue A, west side, between Sixty-ninth and Seventy-first streets.
One Hundred and Thirty-fourth street, between Willis avenue and Brown place.
Fifty-fourth street, between First avenue and Avenue A.
Ninetieth street, between Second and Third avenues.
One Hundred and Forty-fifth street, between Third avenue and One Hundred and Forty-sixth street.
One Hundred and Forty-sixth street, between College and Ryder avenues.
Ninety-sixth street, between Eighth and Ninth avenues.
One Hundred and sixth street, between Boulevard and Ninth avenue.
Ninety-ninth street, between Eighth and Tenth avenues.
Seventy-fifth street, between Fourth and Madison avenues.
Eightieth street, between Boulevard and Riverside avenue.
Tenth avenue, between Ninety-ninth and One Hundredth streets.
One Hundred and Eighth street, between Third and Fourth avenues.
Seventy-fifth street, between Fourth and Lexington avenues.
One Hundred and Thirty-first street, between Seventh and Eighth avenues.
One Hundred and Forty-third street, between Third and Willis avenues.
One Hundred and Forty-eighth street, between Courtland and Fourth avenues.

"A."

Single Nozzle, 3½-inch Barrel Hydrants.

One northwest corner of Third avenue and One Hundred and Fifty-ninth street.
One southwest corner of Third avenue and St. Ann's avenue.
One west side Third avenue, between Brook avenue and One Hundred and Sixty-first street.
One northwest corner of Third avenue and One Hundred and Sixty-second street.
One northwest corner of Third avenue and One Hundred and Sixty-third street.
One northeast corner of Third avenue and Teasdale place.
One northwest corner of Third avenue and One Hundred and Sixty-fourth street.
One northwest corner of Third avenue and One Hundred and Sixty-fifth street.
One junction of Third avenue and Franklin avenue.
One southwest corner of Third avenue and One Hundred and Sixty-sixth street.
One north side of One Hundred and Sixty-sixth street, between Third avenue and Washington avenue.
One northeast corner of Third avenue and Spring place.
One northwest corner of Third avenue and One Hundred and Sixty-seventh street.
One west side Third avenue, between One Hundred and Sixty-seventh and One Hundred and Sixty-eighth streets.

One northwest corner of Third avenue and One Hundred and Sixty-eighth street.
 One west side of Third avenue, between One Hundred and Sixty-eighth and One Hundred and Sixty-ninth streets.
 One northwest corner of Third avenue and One Hundred and Sixty-ninth street.
 One west side of Third avenue, between One Hundred and Sixty-ninth and One Hundred and Seventieth streets.
 One northeast corner of Third avenue and One Hundred and Seventieth street.
 One west side of Third avenue, near town line.
 One southwest corner of Third avenue and proposed Ninth street.
 One west side of Third avenue, near centre of proposed street.
 One southwest corner of Third avenue and Bathgate place.
 One northwest corner of Third avenue and Eleventh street.
 One northwest corner of Third avenue and Twelfth street.
 One southeast corner of Third avenue and Fitch street.
 One northwest corner of Third avenue and Fitch street.
 One northwest corner of Third avenue and Mott street.
 One northeast corner of Third avenue and Morris street.
 One northwest corner of Madison avenue and Morris street.
 One southwest corner of Third avenue and Morris street.
 One northeast corner of Third avenue and Marble street.
 One northwest corner of Third avenue and Marble street.
 One southwest corner of Tiebout street and Highbridge road.
 One southwest corner of Croton avenue and Jerome avenue.
 One north side Astor place, between Broadway and Fourth avenue.
 One east side Lafayette place, near Astor place.
 One south side Fifty-seventh street, between Eighth and Ninth avenues (near Ninth avenue).
 One southwest corner of Fifty-seventh street and Seventh avenue.
 One northwest corner of One Hundred and First street and Boulevard.
 One northwest corner of One Hundred and Third street and Boulevard.
 One northwest corner of One Hundred and Sixth street and Boulevard.
 One northwest corner of One Hundred and Eighth street and Boulevard.
 One northeast corner of One Hundred and Thirty-fifth street and Willis avenue.
 One north side One Hundred and Thirty-fifth street, between Willis avenue and Brown place.
 One northeast corner of One Hundred and Thirty-seventh street and Alexander avenue.
 One south side Eighty-first street, between Eleventh avenue and Riverside avenue.
 One northwest corner of Seventy-sixth street and Boulevard.
 One northeast corner of Seventy-sixth street and Riverside avenue.
 One southeast corner of One Hundred and Thirty-first street and Broadway.
 One northwest corner of One Hundred and Thirty-second street and Broadway.
 One northeast corner of One Hundred and Thirty-third street and Boulevard.
 One northeast corner of Seventy-seventh street and Madison avenue.
 One northwest corner of Seventy-seventh street and Fourth avenue.
 One northeast corner of Sixty-ninth street and First avenue.
 One northwest corner Sixty-ninth street and Avenue A.
 One west side Avenue A, between Seventieth and Seventy-first streets.
 One northeast corner of One Hundred and Thirty-fourth street and Willis avenue.
 One north side One Hundred and Thirty-fourth street, between Willis avenue and Brown place.
 One northwest corner of One Hundred and Forty-fifth street and Third avenue.
 One southwest corner of One Hundred and Forty-fifth street and College avenue.
 One northwest corner of One Hundred and Forty-sixth street and College avenue.
 One northeast corner of One Hundred and Forty-sixth street and Ryder avenue.
 One northeast corner of Fifty-fourth street and First avenue.
 One northwest corner of Fifty-fourth street and Avenue A.
 One northeast corner of Ninetieth street and Third avenue.
 One northwest corner of Ninetieth street and Second avenue.
 One southeast corner of Sixty-third street and Eleventh avenue.
 One northeast corner of Sixty-first street and Eleventh avenue.
 One northwest corner of Ninety-sixth street and Eighth avenue.
 One northeast corner of Ninety-sixth street and Ninth avenue.
 One northwest corner of Ninety-sixth street and Ninth avenue.
 One northwest corner of One Hundred and Sixth street and Tenth avenue.
 One at One Hundred and Sixth street, between Ninth and Tenth avenues.
 One northwest corner of One Hundred and Sixth street and Ninth avenue.
 One northeast corner of Ninety-ninth street and Eighth avenue.
 One northeast corner of Ninety-ninth street and Ninth avenue.
 One northwest corner of Ninety-ninth street and Ninth avenue.
 One northwest corner of One Hundred and Eighth street and Third avenue.
 One northeast corner of One Hundred and Eighth street and Lexington avenue.
 One northeast corner of One Hundred and Eighth street and Fourth avenue.
 One northwest corner of Seventy-fifth street and Lexington avenue.
 One northeast corner of Seventy-fifth street and Fourth avenue.
 One north side Forty-fourth street, between Second and Third avenues (near Second avenue).
 One northwest corner of Seventy-fifth street and Fourth avenue.
 One northeast corner of Seventy-fifth street and Madison avenue.
 One north side One Hundred and Thirty-first street, between Seventh and Eighth avenues.
 One northeast corner of One Hundred and Thirty-first street and Eighth avenue.
 One southwest corner of One Hundred and Fifty-fourth street and Courtland avenue.
 One southwest corner of One Hundred and Fifty-third street and Courtland avenue.
 One northwest corner of One Hundred and Fifty-first street and Courtland avenue.
 One southwest corner of One Hundred and Fiftieth street and Courtland avenue.
 One northeast corner of One Hundred and Forty-eighth street and Courtland avenue.
 One corner of Third avenue and Courtland avenue.
 One northwest corner of Sixty-sixth street and Boulevard.
 One northeast corner of Sixty-sixth street and Tenth avenue.
 One northwest corner of One Hundred and First street and Ninth avenue.
 One north side One Hundred and First street, between Ninth and Tenth avenues (near Tenth avenue).
 One northeast corner of One Hundred and First street and Boulevard.
 One southeast corner of One Hundred and Twenty-fourth street and First avenue.
 One northwest corner of One Hundred and Twenty-fourth street and Avenue A.
 One northwest corner of One Hundred and Thirty-fourth street and Fourth avenue.
 One northeast corner of One Hundred and Thirty-fourth street and Fifth avenue.
 One northeast corner of One Hundred and Thirty-fourth street and Madison avenue.
 One north side Forty-fourth street, between Second and Third avenues.
 One northwest corner of Seventy-fifth street and Fourth avenue.
 One northeast corner of Seventy-fifth street and Madison avenue.
 One northeast corner of One Hundred and Twenty-sixth street and Boulevard.
 One southeast corner of One Hundred and Twenty-third street and Boulevard.
 One corner of One Hundred and Forty-third street, between Willis and Third avenues.
 One northwest corner of One Hundred and Thirty-second street and Willis avenue.
 One north side One Hundred and Forty-eighth street, between Courtland and College avenues.
 One northwest corner of One Hundred and Forty-eighth street and College avenue.
 One north side One Hundred and Forty-eighth street, between College and Morris avenues.
 One northwest corner of One Hundred and Forty-eighth street and Morris avenue.
 One northeast corner of One Hundred and Forty-eighth street and Railroad avenue.
 One corner of Twelfth street and Greenwich avenue.
 One southeast corner of Fourteenth street and Greenwich avenue.
 One northeast corner of One Hundred and Twenty-second street and Fourth avenue.
 One northeast corner of One Hundred and Twenty-third street and Fourth avenue.
 One northeast corner of One Hundred and Twenty-fourth street and Fourth avenue.
 One northwest corner of One Hundred and Twenty-fourth street and Fourth avenue.
 One northwest corner of Eighty-fourth street and Fourth avenue.
 One northwest corner of Eighty-ninth street and Fourth avenue.
 One northwest corner of Ninetieth street and Fourth avenue.
 One northwest corner of Ninety-first street and Fourth avenue.
 One northeast corner of Ninety-first street and Fourth avenue.
 One northeast corner of Ninety-second street and Fourth avenue.
 One corner of Eightieth street, between Boulevard and Riverside avenue.
 One corner of Eightieth street, between Boulevard and Riverside avenue.

"B."

Double Nozzle, 5-inch Barrel Hydrants.

One southwest corner of Bowling Green and Whitehall street.
 One northeast corner of Broadway and Marketfield street.
 One Bowling Green, opposite Beaver street.
 One Bowling Green, north of Beaver street.
 One Broadway east side, between Beaver and Morris streets.
 One northwest corner of Broadway and Morris street.
 One Broadway, east side, between Morris street and Exchange place.

One southwest corner of T. P. alley and Broadway.
 One east side Broadway, between Exchange place and Wall street.
 One southwest corner of Rector street and Broadway.
 One west side Broadway, opposite Wall street.
 One west side Broadway, between Wall and Pine streets.
 One east side Broadway, between Wall and Pine streets.
 One west side Broadway, between Pine and Thames streets.
 One northwest corner of Broadway and Thames street.
 One northwest corner of Broadway and Thames street.
 One northeast corner of Broadway and Thames street.
 One northwest corner of Broadway and Liberty street.
 One east side Broadway, between Liberty street and Maiden lane.
 One northeast corner of Broadway and Maiden lane.
 One northeast corner of Broadway and John street.
 One west side Broadway, between Fulton and Vesey streets.
 One southwest corner of Broadway and Vesey street.
 One east side Broadway, opposite Vesey street.
 One west side Broadway, between Vesey and Barclay streets.
 One west side Broadway, between Vesey and Barclay streets.
 One northeast corner of Broadway and Park place.
 One east side Broadway, opposite Murray street.
 One west side Broadway, between Murray and Warren streets.
 One east side Broadway, opposite Warren street.
 One east side Broadway, between Warren and Chambers streets.
 One west side Broadway, between Warren and Chambers streets.
 One west side Broadway, between Reade and Duane streets.
 One southeast corner of Broadway and Duane street.
 One west side Broadway, between Duane and Thomas streets.
 One west side Broadway, between Thomas and Worth streets.
 One northwest corner of Broadway and Worth street.
 One west side Broadway, between Worth and Leonard streets.
 One west side Broadway, between Leonard and Franklin streets.
 One west side Broadway, between Franklin and White streets.
 One east side Broadway, between Franklin and White streets.
 One west side Broadway, between White and Walker streets.
 One southwest corner of Broadway and Walker street.
 One southeast corner of Broadway and Walker street.
 One southwest corner of Broadway and Lispenard street.
 One east side Broadway, opposite Lispenard street.
 One northeast corner of Broadway and Canal street.
 One west side Broadway, between Canal and Howard streets.
 One southeast corner of Broadway and Howard street.
 One west side Broadway, between Howard and Grand streets.
 One east side Broadway, between Howard and Grand streets.
 One south side Grand street, between Broadway and Crosby streets.
 One west side Broadway, between Grand and Broome streets.
 One west side Broadway, between Grand and Broome streets.
 One east side Broadway, between Grand and Broome streets.
 One southwest corner of Broadway and Broome street.
 One west side Broadway, between Broome and Spring streets.
 One east side Broadway, between Broome and Spring streets.
 One southwest corner of Broadway and Spring street.
 One northeast corner of Broadway and Spring street.
 One east side Broadway, between Spring and Broome streets.
 One southeast corner of Broadway and Prince street.
 One west side Broadway, between Prince and Houston streets.
 One west side Broadway, between Prince and Houston streets.
 One east side Broadway, between Prince and Houston streets.
 One southeast corner of Broadway and Houston street.
 One east side Broadway, between Houston and Bleeker streets.
 One southwest corner of Broadway and Bleeker street.
 One west side Broadway, between Bleeker and Bond streets.
 One east side Broadway, between Bleeker and Bond streets.
 One west side Broadway, opposite Bond street.
 One northeast corner of Broadway and Bond street.
 One southwest corner of Broadway and Third street.
 One northeast corner of Broadway and Great Jones street.
 One southwest corner of Broadway and Washington place.
 One east side Broadway, opposite Washington place.
 One southwest corner of Broadway and Waverley place.
 One east side Broadway, opposite Waverley place.
 One west side Broadway, between Waverley place and Eighth street.
 One southeast corner of Broadway and Astor place.
 One southwest corner of Broadway and Eighth street.
 One southeast corner of Broadway and Eighth street.
 One northeast corner of Broadway and Eighth street.
 One southwest corner of Broadway and Ninth street.
 One west side Broadway, between Ninth and Tenth streets.
 One south side Tenth street, near Broadway.
 One northeast corner of University place and Tenth street.
 One northeast corner of Tenth street and Sixth avenue.
 One northeast corner of Third street and Fifth avenue.
 One southwest corner of Fifteenth street and Third avenue.
 One south side Fifteenth street, between Third and Lexington avenues.
 One northeast corner of Fifteenth street and Lexington avenue.
 One southwest corner of Fifteenth street and Lexington avenue.
 One north side Fifteenth street, between Lexington and Fourth avenues.
 One Union square, between Fourteenth and Fifteenth streets.
 One Union square, opposite Broadway.
 One Union square, between Broadway and University place.
 One south side Fourteenth street, between Broadway and University place.
 One southeast corner of Fourteenth street and University place.
 One northeast corner of Beach and West streets.
 One north side Lighthouse street, between Varick and Hudson streets.
 One east side Varick street, between Lighthouse and Beach streets.
 One southeast corner of Beach and Hudson streets.
 One southwest corner of Beach and Varick streets.
 One south side Leonard street, between Hudson and West Broadway.
 One southwest corner of Canal street and West Broadway.
 One southeast corner of Lispenard street and West Broadway.
 One north side of Lispenard street, between West Broadway and Church street.
 One northeast corner of Walker street and West Broadway.
 One southwest corner of Walker street and West Broadway.
 One southeast corner of Broadway and Ninth street.
 One southeast corner of White street and West Broadway.
 One north side White street, between West Broadway and Church street.
 One southeast corner of Franklin street and West Broadway.
 One north side Franklin street, between West Broadway and Church street.
 One southeast corner of Leonard street and West Broadway.
 One northeast corner of Worth street and West Broadway.
 One southeast corner of Thomas street and West Broadway.
 One north side Thomas street, between West Broadway and Church street.
 One north side Duane street, between West Broadway and Church street.
 One southeast corner of Duane street and West Broadway.
 One northeast corner of Reade street and West Broadway.
 One south side Reade street, between West Broadway and Church street.
 One north side Warren street, between College place and Church street.
 One southeast corner of Warren street and College place.
 One northeast corner of Murray street and College place.
 One northwest corner of Murray street and College place.
 One south side Barclay street, opposite College place.
 One north side Barclay street, between College place and Church street.
 One north side Vesey street, between Greenwich and Church streets.
 One south side Vesey street, between Greenwich and Church streets.
 One centre Old slip.
 One northeast corner of Bleeker and Elizabeth streets.
 One southeast corner of Mott and Bleeker streets.
 One northwest corner of Mott and Houston streets.
 One southeast corner of Mott and Houston streets.
 One northwest corner of Mott and Broome streets.
 One northeast corner of Mott and Broome streets.
 One southwest corner of Mott and Broome streets.

One west side Mott, between Broome and Grand streets.
 One northwest corner of Mott and Grand streets.
 One southwest corner of Mott and Grand streets.
 One west side Mott, between Grand and Hester streets.
 One northeast corner of Mott and Hester streets.
 One southeast corner of Mott and Hester streets.
 One west side Mott, between Hester and Canal streets.
 One northeast corner of Mott and Canal streets.
 One southeast corner of Mott and Canal streets.
 One northeast corner of Canal and Mott streets.
 One southwest corner of Canal and Mott streets.
 One west side Mott street, between Canal and Bayard streets.
 One east side Mott street, between Canal and Bayard streets.
 One southeast corner of Mott and Bayard streets.
 One southwest corner of Mott and Bayard streets.
 One northwest corner of Mott and Pell streets.
 One southwest corner of Mott and Pell streets.
 One east side Mott street, between Park and Chatham streets.
 One northeast corner of Mott and Chatham streets.
 One northeast corner of Church and Morris streets.
 One east side Church street, between Exchange alley and Morris street.
 One southwest corner of Church and Edgar streets.
 One southeast corner of Church and Exchange alley.
 One near southwest corner of Church and Rector streets.
 One southeast corner of Church and Rector streets.
 One northwest corner of Church and Rector streets.
 One near northeast corner of Church and Rector streets.
 One east side of Church, between Rector and Thames streets.
 One near southeast corner of Church and Thames streets.
 One southwest corner of Church and Thames streets.
 One northeast corner of Church and Thames streets.
 One southwest corner of Church and Cedar streets.
 One west side of Church, between Cedar and Liberty streets.
 One southwest corner of Church and Liberty streets.
 One west side of Church, between Liberty and Cortlandt streets.
 One northeast corner of Church and Cortlandt streets.
 One north side of Dey street, between Church street and Broadway.
 One southeast corner of Church and Fulton streets.
 One northeast corner of Church and Liberty streets.
 One south side of Canal street, between West Broadway and Church street.
 One northeast corner of Canal and Wooster streets.
 One west side of Wooster street, between Canal and Grand streets.
 One east side of Wooster street, between Canal and Grand streets.
 One southwest corner of Wooster and Grand streets.
 One northwest corner of Wooster and Grand streets.
 One west side of Wooster street, between Grand and Broome streets.
 One southeast corner of Wooster and Broome streets.
 One northeast corner of Wooster and Broome streets.
 One west side Wooster street, between Broome and Spring streets.
 One southeast corner of Wooster and Spring streets.
 One south side Spring street, between Wooster and Greene streets.
 One northeast corner of Wooster and Spring streets.
 One west side Wooster street, between Spring and Prince streets.
 One southeast corner of Wooster and Prince streets.
 One south side Prince street, between Wooster and Greene streets.
 One northeast corner of Wooster and Prince streets.
 One west side Wooster street, between Prince and Houston streets.
 One southeast corner of Wooster and Houston streets.
 One northeast corner of Wooster and Houston streets.
 One west side Wooster street, between Houston and Bleecker streets.
 One southeast corner of Wooster and Bleecker streets.
 One northwest corner of Wooster and Bleecker streets.
 One east side Wooster street, between West Third and Bleecker streets.
 One southwest corner of Wooster and West Third streets.
 One northeast corner of Wooster and West Third streets.
 One northeast corner of West Third street and South Fifth avenue.
 One southwest corner of West Fourth and Wooster streets.
 One southeast corner of West Fourth street and South Fifth avenue.
 One northeast corner of West Fourth street and University place.
 One west side University place, opposite Washington place.
 One northeast corner of University place and Washington place.
 One southeast corner of University place and Waverley place.
 One east side University place, between Waverley place and Eighth street.
 One west side University place, between Waverley place and Eighth street.
 One northeast corner of University place and Eighth street.
 One southwest corner of University place and Ninth street.
 One northeast corner of University place and Ninth street.
 One southeast corner of University place and Tenth street.
 One north side Waverley place, between University place and Fifth avenue.
 One south side Eighth street, between University place and Fifth avenue.
 One northeast corner of Crosby and Howard streets.
 One east side Crosby street, between Howard and Grand streets.
 One southwest corner of Crosby and Grand streets.
 One northwest corner of Crosby and Grand streets.
 One east side Crosby street, between Grand and Broome streets.
 One southwest corner of Crosby and Broome streets.
 One northeast corner of Crosby and Broome streets.
 One east side Crosby street, between Broome and Spring streets.
 One southwest corner of Crosby and Spring streets.
 One northeast corner of Crosby and Spring streets.
 One west side Crosby street, between Spring and Prince streets.
 One southeast corner of Crosby and Prince streets.
 One northeast corner of Crosby and Prince streets.
 One southeast corner of Crosby and Jersey streets.
 One southwest corner of Crosby and Houston streets.
 One northwest corner of Crosby and Houston streets.
 One east side Crosby street, between Houston and Bleecker streets.
 One southeast corner of Crosby and Bleecker streets.
 One northeast corner of Crosby and Houston streets.
 One southeast corner of Crosby and Spring streets.
 One south side Broome street, between Crosby and Elm streets.
 One south side Grand street, between Crosby and Elm streets.
 One north side Canal street, between Mercer street and Broadway.
 One north side Canal street, between Mercer and Greene streets.
 One west side Mercer street, opposite Howard street.
 One west side Mercer street, between Howard and Grand streets.
 One southeast corner of Mercer and Broome streets.
 One east side Mercer street, north of Grand street.
 One west side Mercer street, between Grand and Broome streets.
 One east side Mercer street, south of Broome street.
 One northeast corner of Mercer and Broome streets.
 One west side Mercer street, between Broome and Spring streets.
 One southwest corner of Mercer and Spring streets.
 One east side Mercer street, north of Spring street.
 One west side Mercer street, between Spring and Prince streets.
 One southeast corner of Mercer and Prince streets.
 One northwest corner of Mercer and Prince streets.
 One west side Mercer street, north of Prince street.
 One east side Mercer street, between Prince and Houston streets.
 One west side Mercer street, south of Houston street.
 One southeast corner of Mercer and Houston streets.
 One west side Mercer street, north of Houston street.
 One east side Mercer street, between Houston and Bleecker streets.
 One southwest corner of Mercer and Bleecker streets.
 One northeast corner of Mercer and Bleecker streets.
 One west side Mercer street, between Bleecker and Third streets.
 One west side Mercer street, between Bleecker and Third streets.
 One northeast corner of Mercer and Third streets.
 One northwest corner of Mercer and Third streets.
 One southeast corner of Mercer and Fourth streets.
 One northeast corner of Mercer and Fourth streets.
 One southwest corner of Mercer street and Washington place.

One northeast corner of Mercer street and Washington place.
 One southwest corner of Mercer street and Waverley place.
 One west side Mercer street, between Waverley place and Eighth street.
 One southeast corner of Mercer and Eighth streets.
 One north side Eighth street, between Mercer street and Broadway.
 One north side Waverley place, between Mercer street and Broadway.
 One south side Spring street, between Mercer street and Broadway.
 One north side Spring street, between Mercer and Greene streets.
 One north side Houston street, between Mercer and Greene streets.
 One north side Grand street, between Mercer street and Broadway.
 One west side First avenue, between Seventy-eighth and Seventy-ninth streets.
 One southwest corner of First avenue and Sixty-ninth street.
 One southwest corner of First avenue and Fifty-eighth street.
 One west side of First avenue, between Fifty-sixth and Fifty-seventh streets.
 One southwest corner of First avenue and Fifty-first street.
 One northeast corner of First avenue and Thirty-eighth street.
 One corner of Greenwich avenue and Eleventh street.
 One north side Greenwich avenue, between Seventh avenue and Bank street.
 One east side Seventh avenue, between Eleventh and Twelfth streets.
 One east side Seventh avenue, between Twelfth and Thirteenth streets.
 One east side Seventh avenue, between Thirteenth and Fourteenth streets.
 One southwest corner of Seventh avenue and Thirteenth street.

"No. 1."

Single Nozzle, 3-inch Barrel Hydrants.

One West street, between Piers 3 and 4.
 One West street, between Houston and Christopher streets.
 One Thirteenth avenue, foot of Bank street.
 One Sixteenth street, East river.
 One Tenth street, corner Weehawken street.

DEPARTMENT OF PUBLIC WORKS,
 WATER PURVEYOR'S OFFICE, 4 CITY HALL,
 NEW YORK, January 4, 1878.

Hon. ALLAN CAMPBELL, Commissioner of Public Works:

SIR—I herewith respectfully submit the report of the transactions of this bureau for the months of October, November, and December, 1877.

REPAIRING CROTON PIPES, ETC.

Three companies have been employed during the past quarter in repairing and renewing pipes, stop-cocks, and fire-hydrants. All complaints made to the bureau have received prompt attention, and the necessary repairs have been made. No serious breaks have occurred during the quarter.

PLACING LARGE HYDRANTS.

A small force has been engaged in placing large hydrants in the streets where necessary, and repaving over Croton mains.

REPAIRS TO PAVEMENTS.

With the force at my command I have been unable to meet all the complaints that have been made, but the repairs needing the most urgent attention have been in all cases promptly made.

REPAVING UNDER CHAPTER 476, LAWS OF 1875.

All contracts, drawn on this appropriation, made during the year have been completed, and very great relief has been afforded to the business portion of the city by the paving of many of the down town streets.

BOULEVARDS, ROADS, AND AVENUES, MAINTENANCE OF.

I respectfully refer you for the detail of the work done under this department of my bureau to the report of Frederick H. Hamlin, Engineer in charge, hereto appended and marked "A."

Number of Men Employed under charge of Bureau of Water Purveyor during the months of October, November, and December, 1877, paid from different Appropriations, with amounts of Pay-rolls.

MONTHS, 1877.	REPAIRING AND RENEWAL OF PIPES, STOP-COCKS, ETC.		CROTON WATER MAIN FUND, No. 2.		REPAIRS AND RENEWAL OF PAVEMENTS.	
	No. of Men.	Amounts.	No. of Men.	Amounts.	No. of Men.	Amounts.
October.....	54	\$3,412 99	101	\$5,610 87	287	\$14,673 95
November.....	55	3,353 77	102	5,176 39	317	14,374 51
December.....	55	3,484 45	72	3,823 10	80	3,878 37
Totals.....	164	\$10,251 21	275	\$14,610 36	684	\$32,926 83

RECAPITULATION.

Amounts of Pay-rolls for October, November, and December, 1877.

Repairing and Renewal of Pipes, Stop-cocks, etc.....	\$10,251 21
Croton Water-main Fund, No. 2.....	14,610 36
Repairs and Renewal of Pavements.....	32,926 83

No. of Square Yards.	PAVING WORKS UNDER CONTRACTS COMPLETED.
6,791.80	Franklin street, from West Broadway to Centre street; Wall street, from William to Hanover street, and Rector street, from Broadway to West street.
7,853.34	Ferry street, from Gold to Peck slip; Spruce street, from Nassau to Gold street, and Nassau street, from Spruce to Wall street.
13,423.87	Warren street, from Broadway to West street, and Murray street, from Broadway to West street.
15,513.23	West Broadway, from Chambers to Canal street, and College place, from Chambers to Barclay street.
12,508.60	Washington street, from Liberty street to Battery place, and Pearl street, from Fulton street to Coenties slip.
9,366.40	John street, from Broadway to Water street, and Dey street, from Broadway to West street.
1,564.	Fourth street, from Lewis to Mangin street.
14,828.88	Maiden lane, from Broadway to South street; Liberty street, from Maiden lane to West street, and Cortlandt street, from Broadway to Greenwich street.
25,348.20	Sixth avenue, from Forty-second to Fifty-ninth street.
107,198.32	Total number of yards.

Number of square yards of pavement laid during the year 1877 was.....	174,475 06
Number of vault permits issued during the months of October, November, and December, 1877 (twenty-seven).....	27
Receipts for vault permits, same period.....	\$9,114 85
Number of vault permits issued during the year was (one hundred and sixteen).....	116
For which was received the sum of thirty-four thousand one hundred and sixty-six dollars and forty-eight cents.....	\$34,166 48

Respectfully submitted,
 DANIEL O'REILLY, Water Purveyor.

"A."

DEPARTMENT OF PUBLIC WORKS,
 BUREAU OF WATER PURVEYOR,
 NEW YORK, January 2, 1878.

DANIEL O'REILLY, Esq., Water Purveyor:

SIR—Respectfully I present the following report, describing what has been done under the immediate supervision of the Engineer in charge of the Bureau of Water Purveyor during the three months ending December 31, 1877, together with a review of similar work done throughout the past year.

For the maintenance during 1877 of all the macadamized and gravel boulevards, streets, and avenues, there were appropriated \$40,000 00
To which were added by transfer 5,000 00
\$45,000 00

Amount expended to April 1, 1877..... \$5,074 86
Amount expended from March 31 to July 1..... 11,322 78
Amount expended from June 30 to October 1..... 14,380 85
Amount expended from September 30, 1877, to January 1, 1878..... 10,806 45
Estimated outstanding liabilities, including Laborers' pay-roll, from December 22, 1877, to January 1, 1878..... 3,374 48

Estimated balance..... \$40 58

Expenses during the last three months are thus classified :

Sprinkling..... \$1,004 36
Rolling Roads..... 83 55
Cleaning Roads..... 1,090 42
Cleaning Gutters..... 515 99
Spreading Road Covering..... 218 38
Repairing Roads..... 1,703 01
Repairing Sidewalks..... 138 67
Road Covering (material)..... 585 21
Paving intersection of Fifth avenue and One Hundred and Twenty-fourth street..... 254 85
Paving Gutters, General Account, including supervision, clerk hire, foremen's time, repairs to tools, supplying materials not above specified, and other necessary expenses..... 5,212 01

Total..... \$10,806 45

The use for road surfacing of clay and coarse sharp sand in the proportion of one to four has been found to be a cheap and efficacious substitute for gravel or trap-rock screenings, the Boulevard north of Manhattan street having been maintained in this manner during the last season with satisfactory result.

The estimated cost from actual observation of repairing macadamized pavement, including the roughening of the old surface and the supplying and applying broken trap-rock with an average depth of two inches when rolled, is 46 cents per square yard.

The paving of the roadway on steep grades for a width of four feet from the curb with Belgian blocks has been adopted as the only effectual means of maintaining the gutters in good condition.

As rapidly as funds will permit, this work will be extended throughout the entire system of macadamized and gravel roads. The net expense, estimated from experience, of paving the gutters just described, including the necessary adjusting of the roadway thereto, is 74 cents per lineal foot.

The intersection of Fifth avenue and One Hundred and Twenty-fourth street was repaved in December last by placing over a Telford foundation a stratum eight inches thick, when rolled, of coarse screenings of trap-rock, the particles having a dimension on the face of from one-half to one and a half inches. Such road surfacing seems to combine the elasticity and smoothness of the gravel with the fixedness and durability of the Macadam to an unusually large degree; repairs could be cheaply and perfectly made, while the size and shape of the material are such as would insure against washing and the effects of frosts.

The estimated cost of such work is \$1.85 per square yard. If the roadway subjected to the test of the winter and spring season remains in a satisfactory condition, I respectfully suggest that the use of coarse screenings be adopted in resurfacing the Boulevard, whenever funds can be obtained for such purpose, instead of applying the ordinary broken trap-rock.

The work of macadamizing One Hundred and Fifty-second street, Avenue St. Nicholas to Boulevard, finished September 22, 1877, completes, as far as practicable, the construction of all the pavement of this description or of gravel roads at present authorized.

The laboring force at present consists of:

3 Foremen.
14 Skilled Laborers.
33 Laborers.
1 Blacksmith.
1 Helper.
1 Watchman.
1 Steam Engineer.
1 Steersman.
7 Carts.
16 Two-horse teams.

The extent and description of the various roadways maintained are exhibited in the following table:

STREETS AND AVENUES.	KIND OF ROADWAY.	WIDTH OF ROADWAY IN FEET.	AREA IN SQUARE YARDS.	LENGTH IN MILES.
Boulevard, from Circle at Fifty-ninth street to One Hundred and Fifty-fifth street.....	Telford-Macadam	80 and 102	256,181	4.894
Sixth avenue, from One Hundred and Tenth street to Harlem river.....	"	80	84,835	1.807
Seventh avenue, from One Hundred and Tenth street to Harlem river.....	"	80	103,313	2.201
Avenue St. Nicholas, from One Hundred and Tenth to One Hundred and Fifty-fifth street.....	Gravel.....	55	75,505	2.346
Tenth avenue, from One Hundred and Fifty-fifth street to One Hundred and Ninety-fourth street.....	Macadam, 50; and Earth, 20.....	70	79,283	1.930
One Hundred and Fifty-fifth street, from Ninth avenue to Hudson river.....	Telford-Macadam and Graywacke	60	17,506	0.485
Manhattan street, from Avenue St. Nicholas to One Hundred and Twenty-fifth street.....	Telford-Macadam	70	5,709	0.139
Avenue A, from Fifty-seventh to Eighty-sixth street.....	"	60	52,528	1.458
Avenue A, from One Hundred and Sixteenth to One Hundred and Twenty-fourth street.....	"	60	8,791	0.248
Seventy-second street, from Avenue A to Fifth avenue.....	"	40	18,836	0.779
Seventy-second street, from Eighth avenue to Riverside Drive.....	"	60	19,933	0.605
One Hundred and Tenth street, from First avenue to Riverside Drive.....	"	30 and 40	34,794	1.734
One Hundred and Sixteenth street, from Avenue A to Seventh avenue.....	"	40 and 60	32,382	1.115
One Hundred and Twenty-fourth street, from Avenue A to Seventh avenue.....	"	30	14,961	0.840
One Hundred and Forty-fifth street, from Sixth avenue to the Boulevard.....	"	60	27,923	0.809
One Hundred and Twenty-second street, from Tenth avenue to Riverside Drive.....	"	42	6,255	0.275
One Hundred and Twenty-third street, from avenue west of Mt. Morris square to Eighth avenue.....	"	30	6,903	0.431
Ninth avenue, from One Hundred and Twenty-third to One Hundred and Twenty-sixth street.....	"	60	4,441	0.113
One Hundred and Fifty-second street, from Avenue St. Nicholas to the Boulevard.....	Macadam.....	30	5,018	0.269
First avenue, from Ninety-second to One Hundred and Sixteenth street.....	Telford-Macadam	60	12,252	0.348
Avenue B, from Seventy-ninth to Eighty-sixth street.....	Earth.....	60	11,935	0.339
Total.....			879,284	23.165

All of which is respectfully submitted.

FRED. H. HAMLIN,
Engineer in charge Roads and Avenues.

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF STREET IMPROVEMENTS, ROOM 11, CITY HALL,
NEW YORK, January 5, 1878.

Hon. ALLAN CAMPBELL, Commissioner of Public Works:

SIR—I have the honor to transmit herewith a report of the transactions of this bureau for the months of October, November, and December, 1877, showing statements of the amount of work done on the various contracts; of the amount of vouchers drawn; of contracts completed, and contracts under way and suspended; also permits issued by this bureau during these three months as well as during the year 1877.

For contracts entered during this period I beg to refer to the Contract Clerk's report.

Respectfully,
GEO. A. JEREMIAH,
Superintendent Street Improvements.

Statement of Contracts in Progress in the Bureau of Street Improvements on the 31st day of December of the year 1877.

LOCATION OF WORK.	NAME OF CONTRACTOR.	SURVEYOR.	INSPECTOR.	CONTRACT TIME.	ESTIMATED COST.	AMOUNT EARNED.	30 PER CENT. RETAINED.	AMOUNT PAID.	REMARKS.
Regulating, grading, curb, gutter, and flagging—									
Fourth avenue, One Hundred and Second to One Hundred and Tenth street.....	Edward Bradburn.....	W. V. Smith.....	Norman McLeod.....	200 days.....	\$12,585 00	\$5,500 00	\$1,650 00	\$3,850 00	
Eighth avenue, One Hundred and Twenty-eighth street to Harlem river.....	Mills & Ambrose.....	W. V. Smith.....	Clark Vandewater.....	2½ years ..	143,870 75	65,280 00	19,584 00	45,696 00	
Ninth avenue, Seventy-second to Eighty-first street.....	Terrence Smith.....	W. V. Smith.....	Suspended.....	5 months.....	9,277 00	3,250 00	975 00	2,275 00	Work suspended.
Tenth avenue, Ninety-fifth to One Hundred and Tenth street.....	John Slattery.....	F. M. Leonard.....	John Meade.....	150 days.....	15,857 28	5,771 00	1,731 30	4,039 70	
Eleventh avenue, Fifty-ninth to Seventy-second street.....	Michael Gavin.....	Charles H. Haswell.....	Arthur Flynn.....	1 year.....	41,448 00	30,609 56	10,982 88	25,626 68	
Forty-second street, Second avenue to East river.....	Thomas Connell.....	Eugene E. McLean.....	Suspended.....	270 days.....	15,859 00	11,355 00	3,406 50	7,948 50	Work suspended on account of obstruction from sewer contract.
Sixty-second street, Tenth to Eleventh avenue.....	John Wyberd.....	T. & J. Slaton.....	Suspended.....	9 months.....	7,967 91	3,034 84	910 45	2,124 39	Work suspended.
Sixty-sixth street, Eighth avenue to Boulevard.....	John Mulholland.....	F. M. Leonard.....	John Maguire.....	300 days.....	14,372 76	.....	.....	.....
Seventy-first street, Fifth avenue to East river.....	Herman Polye.....	Wm. H. Michaels.....	Charles Schloss.....	4 months.....	24,907 80	11,309 00	3,392 70	7,916 30	
Seventy-eighth street, Boulevard to Ninth avenue.....	Patrick Mulholland.....	A. Doubleday.....	Francis Maguire.....	250 days.....	15,404 25	8,436 97	2,531 10	5,905 87	
Eighty-first street, Ninth to Tenth avenue.....	Michael Gavin.....	Charles H. Haswell.....	Suspended.....	50 days.....	3,587 00	.....	.....	.....	Work suspended.
Ninety-sixth street, Boulevard to Hudson river.....	Abraham Dowdney.....	W. V. Smith.....	Samuel Brower.....	550 days.....	29,086 00	17,360 00	5,208 00	12,152 00	
One Hundred and Third street, First to Fifth avenue.....	John C. Dowling.....	W. V. Smith.....	Joseph Frankan.....	600 days.....	29,360 00	3,293 50	988 05	2,305 45	
One Hundred and Sixth street, Madison to Fourth avenue.....	Edward Bradburn.....	Wm. M. Dean.....	James W. Hazlett.....	300 days.....	4,206 20	.....	.....	.....
One Hundred and Forty-sixth street, Tenth avenue to Boulevard.....	Daniel Crowley.....	M. Lovell.....	Michael H. Whalen.....	100 days.....	9,982 50	4,935 00	1,480 50	3,454 50	
Flagging—									
Sixty-third street, First avenue to East river.....	James Baird.....	Eugene E. McLean.....	.....	15 days.....	1,798 38	.....	.....	.....	Work not yet commenced.
Retaining walls, arch, etc.—									
Forty-second street, First to Second avenue.....	Jeremiah R. Byron.....	G. S. Avery, Assistant Engineer	Patrick O'Brien.....	100 days.....	29,214 50	1,549 75	464 93	1,084 82	
Total.....					\$408,874 33	\$177,684 62	\$53,305 41	\$124,379 21	

Old Contracts Suspended.

Fourth avenue, Fifty-eighth to Seventy-first street.....	Patrick Farley.....	R. Foley.....	Suspended.....	2 years.....	\$48,185 82	\$42,232 65	\$12,669 76	\$29,562 89
Eighty-first street, Second avenue to East river.....	M. J. Bannon.....	Frank E. Towle.....	Suspended.....	200 days.....	16,208 90	3,840 00	1,152 00	2,688 00
Total.....					\$64,394 72	\$46,072 65	\$13,821 76	\$32,250 89

AMOUNT OF WORK DONE.	EARTH.	ROCK.	FILLING.	CURB AND GUTTER.	CURB STONES.	GUTTER STONES.	CURB AND GUTTER RESET.	FLAGGING.	FLAGGING RELAID.	FENCES BUILT.	RUBBLE RANGE MASONRY.
From January 1 to December 31, 1877..	34,645.61	47,787.74	368,153.11	39,642.25	2,220.30	173.01	866.17	220,298.19	1,845.17	3,774.29	325
From October 1 to December 31, 1877..	14,832.61	10,457.74	87,516.11	12,192.20	30.30	.....	672.00	101,390.93	1,226.00	235.00	325

TITLE OF APPROPRIATION.	AMOUNT OF APPROPRIATION.	AMOUNT EXPENDED.	BALANCE ON DECEMBER 31.
Street Improvements—For Street Signs, etc.....	\$1,000 00	\$623 20	\$376 80
Flagging Sidewalks and Fencing Vacant Lots.....	1,000 00	266 00	734 00

AMOUNT OF VOUCHERS DRAWN.	REGULATING, GRADING, ETC.	STREET IMPROVEMENTS—FOR STREET SIGNS, ETC.	FLAGGING SIDEWALKS AND FENCING VACANT LOTS.	CONTINGENCIES—DEPARTMENT OF PUBLIC WORKS.
From January 1 to December 31, 1877.....	\$245,017 34	\$623 20	\$266 00	\$375 00
From October 1 to December 31, 1877.....	84,583 74	.....	65 00	62 50

Works Completed during the Months October, November, and December, 1877.

- Regulating, grading, curb, gutter, and flagging—
Broadway, from Manhattan to One Hundred and Thirty-third street.
Lexington avenue, from One Hundred and Second street to Harlem river.
Seventieth street, from Third avenue to East river.
Eighty-fifth street, from Avenue A to Avenue B.
Ninety-third street, from Boulevard to Eighth avenue.
One Hundred and Seventh street, from Fifth avenue to Harlem river.
Tenth avenue, from Eighty-first to Eighty-second street.
- Curb, gutter, and flagging—
Seventy-sixth street, from Avenue A to East river and from First to Second avenue.
- SPECIAL CONTRACTS.
- Curb, gutter, and flagging—
West side Washington street, from Gansevoort to Little West Twelfth street, etc.
- Flagging—
North side of Forty-third street, from Ninth to Tenth avenue.
North side of Fifty-sixth street, from Sixth to Seventh avenue.
South side of Fifty-eighth street, from Broadway to Seventh avenue.
North side of Fifty-eighth street, from Eighth to Ninth avenue.
South side of Seventy-ninth street, from Ninth avenue to the Boulevard.
North side of One Hundred and Twentieth street, from Avenue A to First avenue.
- Fencing vacant lots—
North side of Fiftieth street, from Lexington to Fourth avenue.
One Hundred and Eighteenth street, from First to Second avenue.

Permits Issued.

From January 1 to December 31, 1877.....	1,220
From October 1 to December 31, 1877.....	7

Total of Works Completed in the Year 1877.

Regulating, grading, etc.....	12 contracts.
Curb, gutter, and flagging.....	5 "
Flagging.....	12 "
Fencing vacant lots.....	9 "

GEO. A. JEREMIAH,
Superintendent of Street Improvements.

New York, December 31, 1877.

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF STREET IMPROVEMENTS,
NEW YORK, January 2, 1878.

GEORGE A. JEREMIAH, Esq., Superintendent of Street Improvements:

SIR—Complying with instructions, I would respectfully state that I have prepared the following report describing that portion of the work done during the last three months within the jurisdiction of the Bureau of Street Improvements, the immediate responsibility for which rests upon the Engineer in charge, to which is added a resumé of what has been accomplished during the year 1877.

The regulating and grading of Ninety-sixth street, between First and Second avenues, and the setting of curb and flagging between these limits are now finished, William Ryan, contractor, during the last quarter having performed the following work:

- 120 cubic yards of earth-filling furnished and delivered.
1,400 lineal feet of curb set, not furnished.
5,430 square feet of flagging laid, not furnished.
84 square feet of flagging furnished and laid.

The planting of the Boulevard, Sixth and Seventh avenues, with elms, and Avenue St. Nicholas with maples, Oliver Van Courtlandt, contractor, has so far progressed as to warrant the belief that next spring will witness all these boulevards furnished with trees throughout, in each case, the entire length. This fall there have been planted—

- 124 trees in Sixth avenue.
213 trees in Seventh avenue.

In accordance with a contract made with Jesse Ryder, dated November 9, 1877, there have been planted in One Hundred and Tenth street, First avenue to Riverside Drive, 402 red maples, the rest of the trees to be furnished and planted during the following spring. Mr. Ryder has also planted this fall in place of those dead or rejected—

- 89 trees in Seventh avenue.
5 trees in Avenue St. Nicholas.
86 trees in Boulevard.

Since January 1, 1877, the total amount of work done and materials furnished is as follows:

LOCATION OF WORK.	By Contract or otherwise	Date of Completion.	QUANTITIES.						TREES.		
			Rock Excavation.	Earth Excavation.	Filling.	Curb.	Gutter.	Flagging.	Elm.	Sugar Maple.	Red Maple.
Avenue B, from Seventy-ninth to Eighty-sixth street.....	Contract.	1877. May 23..	Cu. yds. 50	Cu. yds. 1,600	Cu. yds.	Lineal feet. 1,279	Lineal feet. 3,449	Sq. feet. 4,515	...	...	...
Ninety-sixth street, from First to Second avenue.....	"	.....	.....	.....	220	1,400	.....	5,520	.....	.....	.....
First avenue, from Ninety-ninth to One Hundred and Fourth street.....	"	.....	.....	.....	24,220	.....	.....	.....	.....	.....	.....
New avenue, between Eighth and Ninth avenues, from One Hundredth to Manhattan street.....	"	June 18..	.....	.....	1,300	.....	.....	.....	.....	.....	.....
Boulevard, from Fifty-ninth to One Hundred and Fifty-fifth street.....	.....	.....	.....	.....	.....	.....	.....	.....	870	.....	.....
Seventh avenue, from One Hundred and Tenth street to Harlem river.....	.....	.....	.....	.....	.....	.....	.....	.....	124	.....	.....
Seventh avenue, from One Hundred and Tenth street to Harlem river.....	.....	.....	.....	.....	.....	.....	.....	.....	302	.....	.....
Avenue St. Nicholas, from One Hundred and Tenth to One Hundred and Fifty-fifth street.....	.....	.....	.....	.....	.....	.....	.....	.....	313	.....	.....
One Hundred and Tenth street, from First avenue to Riverside Drive.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	402	.....

Statement of the Amounts Expended chargeable to the various Accounts, from January 1, 1877, to December 31, 1877, inclusive.

First avenue, Eighty-sixth to One Hundred and Sixteenth street.....	\$14,084 96
Ninety-sixth street, First to Fifth avenue.....	1,877 20
One Hundred and Twenty-fourth street, Avenue A to Sixth avenue, superstructure.....	286 25
One Hundred and Twenty-fourth street, Avenue A to Sixth avenue, regulating and grading.....	176 62
One Hundred and Twenty-second street, Tenth avenue to Riverside Drive.....	131 41
One Hundred and Tenth street, First avenue to Riverside Drive, superstructure.....	280 88
One Hundred and Tenth street, First avenue to Riverside Drive, regulating and grading.....	13 62
One Hundred and Fifty-second street, Avenue St. Nicholas to Boulevard.....	3,263 22
One Hundred and Sixteenth street, pavement.....	9 00
One Hundred and Sixteenth street, Sixth to Seventh avenue, regulating and grading.....	70 00
Tenth avenue, One Hundred and Tenth street to Manhattan street.....	207 43
Avenue B, Seventy-ninth street to Eighty-sixth street.....	5,757 92
Avenue A, One Hundred and Sixteenth street to Harlem river, superstructure.....	181 14
Avenue A, One Hundred and Sixteenth street to Harlem river, regulating and grading.....	7 48
New Avenue, between Eighth and Ninth avenues, north line One Hundred and Fourteenth street to 110 feet south.....	18 26
New Avenue, between Eighth and Ninth avenues, One Hundredth street to One Hundred and Tenth street.....	1,785 81
New Avenue, between Eighth and Ninth avenues, One Hundred and Fourteenth street to St. Nicholas.....	668 81
Boulevard, tree planting.....	1,870 18
Avenue St. Nicholas, tree planting.....	1,220 22
Sixth avenue, tree planting.....	468 68
Seventh avenue, tree planting.....	1,103 64
One Hundred and Tenth street, tree planting.....	313 25

Grand Total..... \$33,796 08

Statement of the Amounts Expended chargeable to the various Accounts, during the Quarter ending December 31, 1877.

First avenue, Eighty-sixth to One Hundred and Sixteenth street.....	\$1,203 59
Ninety-sixth street, First to Fifth avenue.....	393 77
One Hundred and Twenty-fourth street, Avenue A to Sixth avenue, superstructure.....	59 73
One Hundred and Twenty-fourth street, Avenue A to Sixth avenue, regulating and grading.....	123 16
One Hundred and Twenty-second street, Tenth avenue to Riverside Drive.....	29 71
One Hundred and Tenth street, First avenue to Riverside Drive, superstructure.....	178 54
One Hundred and Fifty-second street, Avenue St. Nicholas to Boulevard.....	3,052 20
New Avenue, between Eighth and Ninth avenues, One Hundredth to One Hundred and Tenth street.....	3 53
New Avenue, between Eighth and Ninth avenues, One Hundred and Fourteenth street to St. Nicholas.....	2 04
Boulevard, tree planting.....	37 59
Avenue St. Nicholas, tree planting.....	15 10
One Hundred and Tenth street, tree planting.....	313 25
Sixth avenue, tree planting.....	404 19
Seventh avenue, tree planting.....	984 30

Grand Total..... \$6,800 70

All of which is respectfully submitted.

FRED. H. HAMLIN,
Engineer in charge Roads and Avenues.

DEPARTMENT OF PUBLIC WORKS—BUREAU OF SEWERS,
ROOM 21, CITY HALL,
NEW YORK, January 5, 1878.

Hon. ALLAN CAMPBELL, Commissioner of Public Works:

SIR—In compliance with your instructions, I beg leave to hand you herewith a report of the transactions of this bureau for the quarter ending December 31, 1877, with a statement of the work done by the employees of this bureau for the entire year of 1877; showing the present total length of the sewerage of this city to be 1,913,415 lineal feet, equal to 362 39-100 miles, with 4,397 receiving-basins.

During the past year several very important works were brought to a close and repairs made to a number of defective sewers, which had been the cause of frequent complaints. Of the former may be mentioned the outlet sewer in One Hundred and Forty-seventh street, at Harlem river, which affords the means of draining the large area bounded between about One Hundred and Thirty-third and One Hundred and Forty-eighth streets, Tenth avenue and Harlem river, including Avenue St. Nicholas, where sewers have been previously built, but remained unprovided with the means of discharge until this outlet sewer had sufficiently progressed. This main also drains much of the low ground in its vicinity, upon which surface water frequently remained until stagnant.

Another large and important contract, completed in the past year, comprised a continuation of the outlet sewer of District No. 14, from Ninety-sixth street at the Boulevard, to and through Ninety-eighth street, Ninth avenue and One Hundredth street to Eighth Avenue, giving a complete outlet to that district, in which improvements were in a fair state of advancement. This main also gives opportunity for draining considerable low-lying and wet land.

An important, though not large, piece of work completed, was the extension of the James slip sewer at South street, which formerly discharged into the ferry slip at that point, creating much discomfort and danger to health from foul odors and gases which arose directly under the ferry structures. This sewer was carried out to the end of the pier north of the ferry, and made to discharge into deep water. There are other cases not so markedly dangerous as was that above mentioned, which will be rectified by the construction of intercepting sewers along the river front. These intercepting sewers are intended to obviate the evils resulting from the discharge of sewers into the slips and beneath the piers at the foot of every street in the lower part of the city, where the sewers were built before the adoption of the present improved sewerage system, and their construction can be commenced when the operations of the Department of Docks are sufficiently advanced.

Surveys are in progress and plans in course of preparation for sewers in all parts of the city, which can be built as needed, or when applied for by the owners of property.

Of the most important contracts made in the last and previous years, which are still in progress or unsettled, I would mention the overflow sewers in Fortieth street, from Tenth avenue to the Hudson river, with alterations and improvements to existing sewers, and in Forty-second street, from Third avenue to East river, etc., the former intended to improve the sewerage of District No. 2 and the latter that of District No. 5, by relieving the main outlets, which have sometimes been surcharged during heavy and sudden showers of rain. The Forty-second street work required some 1,400 lineal feet of rock tunneling, which is almost completed, and will contain a six-foot circular brick sewer. There is also in progress a very extensive contract, covering most of the streets between Ninety-second and One Hundred and Tenth streets, Third avenue and Harlem river, which will complete the drainage of that flat and low-lying region, which has been most strenuously urged by the Health Department; also collective sewers in Eleventh avenue, between Sixtieth and Seventy-sixth streets, with branches in the connecting streets, and in Eighth avenue, between Ninety-second and One Hundred and Fifth streets, which last will complete the sewerage of Eighth avenue, with the exception of the sections between One Hundred and Fifth and One Hundred and Twenty-first streets, and north of One Hundred and Forty-seventh street.

There are also a number of contracts for local sewers, most of which will be completed in 1878. Several important repairs to defective sewers have been made during the past year by contract, but all ordinary repairs have been made by the employees of the bureau.

The new work contemplated will include some important outlet sewers, which have been delayed by legal obstacles, a portion of the intercepting sewer in West street, and such local sewers as may be considered necessary, or which shall be applied for by the owners of property.

The work of cleaning sewers, culverts, and receiving-basins has progressed very satisfactorily under the new arrangements made for the year 1877, and now continued; an equal degree of efficiency with the former method having been maintained, with a very great reduction of expense.

Respectfully,

STEVENSON TOWLE, Engineer in charge of Sewers.

REPORT OF THE TRANSACTIONS OF THE BUREAU OF SEWERS FOR THE QUARTER ENDING DECEMBER 31, 1877.

Credits to General Fund—	
Amounts received for 225 permits for sewer connections.....	\$5,109 30
Vitrified Stoneware Pipe—	
Amounts received for pipe sold to contractors and credited to Street Improvement Fund.....	\$335 68
Engineers' Fees—	
Amount of Engineers and Surveyors' fees assessed on property benefited and charged in assessment lists, and credited to Street Improvement Fund.....	\$282 00

Sewer Repair Stock—	
Unexpended balance, March 31, 1876.....	\$563 03
Sewers—Repairing and Cleaning—	
Unexpended balance, September 30, 1877.....	\$29,097 08
Vouchers transmitted to the Commissioner of Public Works:	
Pay-rolls of Mechanics and Laborers.....	\$10,699 40
On contracts for repairing and rebuilding sewers.....	1,965 00
Sundries.....	1,987 40
Transferred by Board of Estimate and Apportionment.....	7,200 00
Balance, December 31, 1877 (see note).....	7,245 28
	29,097 08

Street Improvement Fund—	
Vouchers transmitted to the Commissioner of Public Works.....	\$84,502 29
Pay-rolls of Engineers, etc.....	\$10,776 17
Inspectors on Sewers.....	3,848 00
On contracts for sewers.....	69,492 12
Sundries.....	386 00
	84,502 29

Work done by Mechanics and Laborers, William Webb, Foreman—

- 1,275 receiving-basins and culverts cleaned.
- 3,010 lineal feet of sewer cleaned.
- 149 lineal feet of sewer rebuilt.
- 41 lineal feet of culvert rebuilt.
- 84 lineal feet of spur-pipe laid.
- 8 receiving-basins rebuilt.
- 71 receiving-basins repaired.
- 11 new granite basin-heads and gutter-stones put on.
- 4 basin-heads and gutter-stones reset.
- 5 new basin-covers put on.
- 4 basin-covers replaced.
- 7 man-holes rebuilt.
- 53 man-holes repaired.
- 37 new man-hole frames and covers put on.
- 28 new man-hole covers put on.
- 27 man-hole frames and covers reset.
- 442 cubic yards of earth excavated.
- 11 cubic yards of earth filled in.
- 183 square yards of pavement relaid.
- 36 square yards of sidewalk relaid.
- 175 square feet of granite crosswalk relaid.
- 16 lineal feet of new curb-stone set.
- 3 new trap-stones put in.

Work done by Contract—

- 9,594 lineal feet of sewer built.
- 717 lineal feet of culvert built.
- 20 receiving-basins built.
- 1,217 lineal feet of sewer rebuilt.
- 30 lineal feet of culvert rebuilt.
- 568 piles driven.

Making the present total length of sewerage in the city 1,913,415 lineal feet (362 39-100 miles), with 4,397 receiving-basins.

NOTE.—Against the unexpended balance of \$7,245.28 to the credit of "Sewers—Repairing and Cleaning," there are outstanding contracts entered into in 1877, for rebuilding and repairing sewers, which it is estimated to amount to about \$7,000.

Statement of Out-door Work done by the Employees of the Bureau of Sewers during the Year 1877.

By Contract—

- 28,587 lineal feet of sewers built.
- 1,810 lineal feet of culvert built.
- 57 receiving-basins built.
- 1,217 lineal feet of sewer rebuilt.
- 30 lineal feet of culvert rebuilt.
- 1,435 lineal feet of house connections built.
- 7,086 piles driven.

By Mechanics and Laborers, William Webb, Foreman—

- 4,873 receiving-basins and culverts cleaned.
- 12,715 lineal feet of sewer cleaned.
- 605 lineal feet of sewer rebuilt.
- 324 lineal feet of culvert rebuilt.
- 255 lineal feet of spur-pipe laid.
- 10 receiving-basins rebuilt.
- 369 receiving-basins repaired.
- 28 new granite basin-heads and gutter-stones put on.
- 20 basin-heads and gutter-stones reset.
- 52 new basin-covers put on.
- 38 basin-covers replaced.
- 7 man-holes rebuilt.
- 232 man-holes repaired.
- 88 new man-hole frames and covers put on.
- 155 man-hole frames and covers reset.
- 92 new man-hole covers put on.
- 938 cubic yards of earth excavated.
- 11 cubic yards of earth filled in.
- 1,135 square yards of pavement relaid.
- 160 square yards of sidewalk relaid.
- 175 square feet of granite crosswalk relaid.
- 156 lineal feet of curb and gutter stones set.
- 3 new trap-stones put in.

DEPARTMENT OF PUBLIC WORKS—BUREAU OF STREETS,
January 5, 1878.

Hon. ALLAN CAMPBELL, Commissioner of Public Works:

SIR—In compliance with your instructions, I have the honor to submit herewith my report of the transactions of this bureau for the quarter ending December 31, 1877.

In the early part of this quarter the roads and unpaved streets were considerably damaged by heavy rains. The necessary repairs were promptly made, but in the latter part of November, when another freshet occurred, the appropriation was so nearly exhausted that it would not bear any further expense beyond the payment of ordinary maintenance force. At your request, however, the appropriation was supplemented by a transfer of \$1,500, and I was thus enabled to restore the roads to a fair condition. The heaviest damage had been done on the road leading to Farmer's Bridge, the roadway having been completely washed away for a distance of about 600 feet south of the bridge. It was rebuilt, the grades being raised about five feet, and the road secured by a dry retaining wall, and the roadway being filled in with dirt, broken stone, and surfaced with gravel and limestone chips. Fort Washington Depot road was resurfaced with limestone chips, and is now in good condition. Fifth avenue, from Ninetieth to One Hundred and Twentieth street, a fine and smooth roadway for pleasure driving, was constructed, and is now much frequented, as many people who drive from the city to the up-town boulevards prefer it to the Central Park drives. Also Kingsbridge road, from One Hundred and Fifty-fifth street to Spuyten Duyvil, the great west-side outlet into Westchester County, has been repaired and resurfaced with gravel and limestone chips in several places, and is now in good condition. Eighth avenue, from One Hundred and Twenty-fifth to One Hundred and Forty-fifth street, on the east side, has been repaired and resurfaced with gravel, but owing to the avenue being regraded on the west side, no repairs have been made; but Eighth avenue, or McComb's Dam road, from One Hundred and Forty-fifth street to McComb's Dam Bridge, has been resurfaced with gravel, and is now in good condition, this road being the only available road for light wagons to Westchester County for pleasure driving. Tenth avenue, from Sixty-second to One Hundred and Tenth, and between One Hundred and Twenty-fifth and One Hundred and Fifty-fifth streets, has been repaired, and is now in a fair condition. And also several side streets, leading from the principal avenues and roads, have been repaired, and, as far as I know, all streets and avenues are now in a fair condition for travel. To give a general idea of the amount of work done during the year 1877, I make the following statement of quantities of materials used in maintenance and repairs:

Purchased.....	2,400 cubic yards of gravel,
	1,850 " " " limestone chips,
	800 " " " broken stone,
	1,000 " " " earth,

—and 6,400 cubic yards of earth obtained free of cost, except for cartage by the carts of this bureau, and 2,500 cubic yards of broken stone, broken by the men employed in the bureau.

The materials were used on the following roads, avenues and streets:

Kingsbridge road, from One Hundred and Fifty-fifth street to Spuyten Duyvil.
Farmer's Bridge road, from Kingsbridge road to river.
Eighth avenue, from One Hundred and Twenty-fifth to One Hundred and Forty-fifth street.
McComb's Dam road, from One Hundred and Forty-fifth street to the bridge.
Fifth avenue, from Ninetieth to One Hundred and Twentieth street.
Tenth avenue, from Sixty-second to One Hundred and Tenth street, and between One Hundred and Twenty-fifth and One Hundred and Fifty-fifth streets.
Broadway, from One Hundred and Thirty-eighth to One Hundred and Forty-fourth street.
One Hundred and Twenty-fourth street, between Seventh and Avenue St. Nicholas.
One Hundred and Twenty-sixth street, between Eighth and Ninth avenues.
One Hundred and Twenty-eighth street, between Sixth and Eighth avenues.
One Hundred and Fifty-first street, between Boulevard and Hudson river.
One Hundred and Fifty-second street, between Boulevard and Hudson river.
A new wooden bridge was built on the Kingsbridge road, and the wooden approach to Farmer's Bridge repaired.
On Kingsbridge road five new stone culverts were built and four culverts repaired.
On Eighth avenue, north of One Hundred and Twenty-fifth street, three new stone culverts were built and four culverts repaired.

The following is a statement of the condition of the appropriation for roads, avenues, and sprinkling, and of the expenditures of the bureau for the quarter ending December 31, 1877.

The following is the amount:

Appropriation for roads, avenues, and sprinkling for the year 1877.....\$20,000 00
Amount expended for first quarter, 1877.....1,195 53

Balance, April 2, 1877.....\$18,804 47
Amount expended for second quarter, 1877.....10,308 01

Balance, July 2, 1877.....\$8,496 46
Amount expended for third quarter, 1877.....5,268 64

Balance, October 1, 1877.....\$3,227 82
Amount transferred by Board of Estimate and Apportionment.....1,500 00

Balance, December 8, 1877.....\$4,727 82

Amount expended for quarter ending December 31, 1877:

Pay-roll for laborers, etc., for two weeks ending	September 30.....	\$453 80
" " " " " "	October 15.....	429 00
" " " " " "	" 31.....	396 70
" " " " " "	November 15.....	336 07
" " " " " "	" 30.....	361 90
" " " " " "	December 15.....	570 45
" " " " " "	" 31.....	645 57
P. Daly, repairing tools.....		79 30
" " " " " "		56 30
" " " " " "		31 35
Wm. McDonald, gravel.....		840 00
J. McDonald, limestone chips.....		315 00
" " " " " "		210 00
		4,725 44

Balance, January 2, 1878.....\$2 38

Traveling expense of J. J. Mooney, Superintendent of Streets, paid from Contingencies—
Department of Public Works.....\$62 50

Respectfully,

JAMES J. MOONEY,
Superintendent of Streets.

CITY OF NEW YORK, DEPARTMENT OF PUBLIC WORKS—
BUREAU OF REPAIRS AND SUPPLIES,
SUPERINTENDENT'S OFFICE, CITY HALL, ROOM 18,
NEW YORK, January 2, 1878.

ALLAN CAMPBELL, Esq., Commissioner of Public Works:

SIR—In accordance with the requirements of chapter 335, Laws of 1873, section 110, and in compliance with your instructions, I herewith submit the following report of the business of this bureau for the three months ending December 31, 1877, and also a summary of the work done by the bureau during the year ending the same day.

The statements marked "A," "B," and "C," hereto annexed, show the number and amount of certified vouchers drawn during the three months, also where the same has been charged, and also the conditions of the appropriations of 1877, upon which vouchers have been drawn.

During the year the principal work of the bureau has been general repairs to the public buildings in City Hall Park, to the buildings and parts of buildings occupied by the district courts, and such other buildings owned or held in trust by the city as are not in the care of other Departments, to the markets, and some slight repairs to the armories.

The care of and cleaning the above except the markets and armories.

The completion of the Third District Court-house Bell-tower and Prison on the corner of Tenth street and Sixth avenue.

The purchase of fuel for the above buildings, and the necessary supplies for the janitors and cleaners of courts, offices, and buildings mentioned.

The purchase of such office supplies as were necessary, such as carpets, desks, chairs, water coolers, oil-cloth, law books, window shades, etc.

Repairing and putting up stoves and awnings, and supplying ice.

The maintenance of the six public baths during the summer months, and the storage of them during the winter.

Among the operations for the year have been the keeping in repair the plumbing work of the New County Court-house, City Hall, and the Brown Stone Building, No. 32 Chambers street.

The improvements to a part of the heating apparatus in the New County Court-house, which consist of changes in the outlets of the hot air flues in several of the court-rooms, and in inclosing a number of the steam coils in the basement with sheet iron, making them easier of access when repairs are necessary, and doing away with the old brickwork casing which, under the same circumstances, always entailed considerable expense and great inconvenience. As the coils now are, the removal of a few bolts will allow access to any part of them. A new system of ventilation, almost completely at variance with the ideas generally accepted on the subject, originated by Dr. Le Roy Satterlee, of Rochester, N. Y., has been applied to several of the court-rooms in this building.

The system was tried as an experiment in 1876, in the court-room of the Supreme Court Chambers, and worked so successfully that a number of the judges signed a petition for the ventilation of the other court-rooms in the building by it. It was accordingly applied to the court-rooms of the Special and General Terms of the Supreme Court, and the General Term of the Court of Common Pleas, and so far has proved perfectly satisfactory. It seems to be the true and only method of good ventilation.

Ventilating apparatus has also been introduced into the Brown Stone Building, No. 32 Chambers street, making great improvement in the hitherto foul atmosphere of several parts of the building.

The Dog Pound at the foot of East Sixteenth street was erected in the summer under the supervision of this bureau.

In the early part of the year, after taking formal possession of the new Third District Court-house, the two court-rooms and adjoining apartments therein were fitted up for the occupation of the Second District Police Court and the Third District Civil Court. By the judicious use of old gas fixtures, etc., the expense attending this did not exceed \$5,000.

It may perhaps be well to mention that to have fitted up these court-rooms in accordance with the plans of the former Commissioners and the architects would have cost \$24,000.

They are acknowledged to be the finest district court-rooms in the city.

Nearly all the contracts for work on this building have been paid.

During the year in the neighborhood of 1,600 gross tons of coal were purchased; one contract being 1,285 gross tons. About 1,100 loads of this coal were weighed in the City Hall Park by the attachés of the bureau. Almost the entire quantity of coal weighed here was put in the buildings in the park, the New County Court-house receiving about 700 gross tons, the Brown Stone Building about 150 gross tons, and the City Hall about the same.

A little money was spent on the corridors and interior of the dome of the City Hall, for painting and kalsomining the woodwork and ceilings, and scraping and cleaning the marble columns, piers, etc., which has vastly improved the appearance of the building, it having been very much in need of a thorough renovating for a long time.

DEPARTMENT OF PUBLIC WORKS—
BUREAU OF LAMPS AND GAS,
NEW YORK, January 5, 1878.

Hon. ALLAN CAMPBELL, Commissioner of Public Works:

SIR—In compliance with the directions contained in your circular letter of 21st ultimo, and with the provisions of section 27, chapter 335 of the Laws of 1873, I herein submit a report of the transactions of the Bureau of Lamps and Gas for the three months ending December 31, 1877, with a summary of the same for the whole year.

In Exhibit "A" will be found an abstract of all the vouchers certified by me during the quarter, showing a total of one hundred and eighty-nine thousand eight hundred and seventeen dollars and forty-seven cents (\$189,817.47) on account of the appropriation for "Lamps and Gas," and one hundred and twenty-five dollars (\$125) on account of "Contingencies—Department of Public Works." In Exhibit "B" will be found a statement showing the amounts expended for gas to the various public markets, offices, etc., and for fitting up, repairing, and lighting the public lamps, etc., for the first, second, third, and fourth quarters of the year, and the sums total for the full year. The column of fourth quarter includes the expense for fitting up, repairing, and lighting the public lamps for month of September. Exhibit "C" is a summary of the appropriation for "Lamps and Gas," giving the amount of vouchers drawn during each of the four quarters, and showing a total expenditure on account of lamps and gas for the year 1877 of six hundred and thirty-two thousand five hundred and seventy-six dollars and twenty-four cents (\$632,576.24), with no outstanding liabilities, leaving a surplus balance of ninety-two thousand four hundred and twenty-three dollars and seventy-six cents (\$92,423.76). Of this surplus the sum of ninety-one thousand nine hundred and four dollars and five cents (\$91,904.05) has been transferred by the Board of Estimate and Apportionment to various other accounts, as shown in this exhibit, still leaving a further surplus of five hundred and nineteen dollars and seventy-one cents (\$519.71). The above surplus was occasioned, first, by the reduction in the price for lighting the public lamps obtained by the Gas Commission in the new proposals received by this Board, and, second, by the strict economy exercised throughout the year in the conduct of the business of this bureau. This showing is, certainly, a very favorable one, more especially when we consider that the several proposals for lighting the public lamps for the year 1877, which were first received by the Gas Commission on December 11, 1876, exhibited a net increase over the year 1876 of one hundred and eleven thousand nine hundred and thirty dollars and seventy-five cents (\$111,930.75); while, under the reduced prices, the total expenditure by this bureau for the year 1877 was forty-six thousand seven hundred and seventy-two dollars and eighty-six cents (\$46,772.86) less than the expenditure for 1876, notwithstanding the natural increase of the public business throughout the year, occasioned by the lighting of Riverdale, the erection and lighting of lamps on the public piers, the lighting of portions of new streets in the upper sections of the city, and the purchase and fitting up of photometrical apparatus. To the decided action taken by the Gas Commission (the Mayor, Comptroller, and Commissioner of Public Works) in the unanimous rejection of the first proposals and the readjusting for new ones, the tax-payers of this city may attribute this gratifying result.

In Exhibit "D" will be found a summary of the "Lamp Account," giving the number of new lamps lighted, old lamps relighted, and lamps discontinued by each gas company during the quarter, with the total number lighted by each company on December 31, 1877; also recapitulations of this account for the quarter and the year, showing a total of five hundred and forty-five new lamps lighted, one hundred and fifty-nine old lamps relighted, and one hundred and eighty-six lamps discontinued during the year, and the total number of lamps burning under the supervision of this Department on December 31, 1877, to be twenty thousand nine hundred and seventeen (20,917), the increase over the corresponding date of 1876 being five hundred and eighteen. The Department of Public Parks had six hundred and nine lamps burning under its supervision on the same date, thereby making the total number of public lamps burning in this city on December 31 to be twenty-one thousand five hundred and twenty-six (21,526).

Exhibit "G" is a time-table for lighting and extinguishing the public lamps for the year 1878, with the instructions to lamp-lighters, the total time during which the lamps are to be kept burning during the year being thirty-eight hundred and thirty-three hours and twenty minutes.

The following statement will show the number of new lamps fitted up, lamp-posts removed, reset, straightened, etc., during the year:

BY WHAT GAS COMPANY.	New Lamps Fitted up.	Lamp-posts Removed.	Lamp-posts Reset.	Lamp-posts Straightened.	Columns Refitted.	Columns Relined.
New York Gas-light Co.	55	107	140	490	34	273
Manhattan Gas-light Co.	107	67	64	168	21	107
Metropolitan Gas-light Co.	100	26	39	188	12	68
N. Y. Mutual Gas-light Co.	1	3	12	12	2	28
Harlem Gas-light Co.	98	55	54	170	15	1
N. Y. & N. J. Globe Gas-light Co.	..	..	..	110	..	1
Central Gas-light Co.	55	48	41	3	..	1
Suburban Gas-light Co.	4	..	..	..	..	..
Yonkers Gas-light Co.	72	..	..	..	..	..
Total.....	492	306	350	1,141	84	478

The following shows the number of new lamps lighted by each gas company during each of the years from 1872 to 1877, both inclusive:

BY WHAT GAS COMPANY.	1872.	1873.	1874.	1875.	1876.	1877.
New York Gas-light Co.	14	5	28	27	11	59
Manhattan Gas-light Co.	17	11	33	23	4	112
Metropolitan Gas-light Co.	174	147	142	140	187	67
N. Y. Mutual Gas-light Co.	..	..	..	2	5	1
Harlem Gas-light Co.	300	364	102	312	235	130
N. Y. & N. J. Globe Gas-light Co.	..	..	..	..	..	8
Central Gas-light Co.	..	..	..	1	2	55
Suburban Gas-light Co.	..	..	..	..	15	41
Yonkers Gas-light Co.	..	..	..	..	..	72
Total.....	505	527	305	505	459	545

The following shows the average number of street-lamps burning in each of the years from 1871 to 1877, both inclusive:

BY WHAT GAS COMPANY.	1871.	1872.	1873.	1874.	1875.	1876.	1877.
New York Gas-light Co.	3,207	3,042	3,025	3,008	3,009	2,638	2,890
Manhattan Gas-light Co.	7,020	6,870	6,758	6,546	6,550	4,966	5,954
Metropolitan Gas-light Co.	3,828	3,936	4,002	3,582	3,514	3,033	3,797
N. Y. Mutual Gas-light Co.	..	..	..	440	584	2,516	1,323
Harlem Gas-light Co.	4,093	4,040	4,097	4,024	3,915	3,938	2,554
N. Y. & N. J. Globe Gas-light Co.	..	..	..	..	..	..	2,106
Central Gas-light Co.	..	..	..	1,523	1,524	1,536	1,569
Suburban Gas-light Co.	..	..	..	924	932	932	969
Yonkers Gas-light Co.	..	..	..	..	..	..	71
Total.....	18,148	17,888	17,882	20,047	20,028	20,159	21,203

* In 1874 these lamps were transferred from the account of the Metropolitan Gas Company; in 1876 five hundred and sixty were transferred from the New York Gas Company, and twenty-three hundred and ninety-two from the Manhattan Company, and in 1877 these two last accounts were transferred back to the two latter companies.

† These lamps were transferred from the account of the Harlem Gas Company.

‡ In Twenty-third Ward, transferred to this city by annexation.

§ In Twenty-fourth Ward, transferred to this city by annexation.

|| At Riverdale new lamps erected and lighted in July, 1877.

Gas-mains have been laid during the year, as follows:

				Miles.	Feet.
By New York Gas-light Co.,	3,369 feet.	Total miles laid	December 31, 1877....	110	569
By Manhattan Gas-light Co.,	1,209 "	"	"	173	681
By Metropolitan Gas-light Co.,	14,045 "	"	"	125	3,665
By N. Y. Mutual Gas-light Co.,	54,996 "	"	"	101	301
By Harlem Gas-light Co.,	23,744 "	"	"	108	2,900
By Central Gas-light Co.,	1,100 "	"	"	37	.....
By Suburban Gas-light Co.,	1,124 "	"	"	21	2,640
By Yonkers Gas-light Co.,	6,124 "	"	"	4	1,101
* By Municipal Gas-light Co.,	164,434 "	"	"	45	4,627

Total in 1877..... 50 5021-5280 miles.

Total miles of gas-mains in the city on December 31, 1877..... 727 911-5280

The Harlem Gas-light Company has taken up 9,392 feet during the year.

The following streets and places have been lighted during the year:

West street, from West Eleventh street to Little West Twelfth street.
Eleventh avenue, from Twenty-third street to Thirtieth street.
Minetta place.
Thirteenth avenue, from Eleventh street to Fourteenth street.
Twenty-second street, from Eleventh avenue to Thirteenth avenue.
Twenty-ninth street, from First avenue to the East river.
Thirty-seventh street, from First avenue to the East river.
Forty-fourth street, from First avenue to Second avenue.
Fifty-fourth street, from First avenue to Avenue A.
Fifty-fifth street, from First avenue to Avenue A.
Fifty-sixth street, from Second avenue to Third avenue.
Fifty-seventh street, from Broadway to Seventh avenue.
Fifty-seventh street, from Ninth avenue to Tenth avenue.
Fifty-ninth street, from Eleventh avenue to North river.
Sixty-sixth street, from Fourth avenue to Madison avenue.
Seventieth street, from Fourth avenue to Madison avenue.
Second avenue, between Sixty-sixth and Sixty-seventh streets.
Boulevard, west side, from Manhattan street to One Hundred and Fifty-second street.
Boulevard, west side, from One Hundred and Nineteenth to One Hundred and Twenty-sixth street.
Fourth avenue corners, east side, from One Hundred and Eleventh to One Hundred and Fiftieth street.
Eighty-third street, from Ninth avenue to Tenth avenue.
Ninety-ninth street, from Eighth avenue to Ninth avenue.
One Hundred and Third street, from Lexington avenue to Fourth avenue.
One Hundred and Eighth street, from Lexington avenue to Madison avenue.
One Hundred and Ninth street, from Third avenue to Fourth avenue.
One Hundred and Twenty-third street, from Seventh avenue to Eighth avenue.
One Hundred and Twenty-sixth street, from Seventh avenue to Eighth avenue.
One Hundred and Twenty-eighth street, from Sixth avenue to Seventh avenue.
One Hundred and Twenty-eighth street, between Ninth and Tenth avenues.
One Hundred and Thirtieth street, from Seventh avenue to Eighth avenue.
One Hundred and Thirty-fourth street, from Fifth avenue to Sixth avenue.
One Hundred and Fifty-first street, from the Boulevard to the North river.
Third avenue, from One Hundred and Fifty-fifth street to town line.
Mott avenue, from One Hundred and Forty-sixth to One Hundred and Fiftieth street.
Berrian avenue.
Hoffman street.
Pelham avenue.

At Riverdale:

Bettner's lane.
Palisade avenue.
Randolph's lane.
River avenue.
Riverdale avenue.
Riverdale lane.
Spaulding's lane.
South street.
West street.

Piers and Bulkheads:

Piers 34, 35, 47, Twenty-second street and Twenty-fourth street, North river.
Piers 24, 55, Twenty-third street and Thirty-third street, East river.
Bulkheads at Piers 3, 4, 6, 7, 8, 12, 13, 28, 29, 37, 38, 39, and 41½, North river, and between Piers 23 and 24, East river.

On December 7th last proposals were received by the Gas Commission for supplying the gas and lighting, etc., the public lamps for the four months ending April 30, 1878. As before stated, the prices named in these proposals were much more favorable than those received on December 11, 1876, for the first four months of 1877. The Harlem Gas Company having agreed to furnish the gas for each lamp and light, etc., at a rate ten cents below the bid of the Naphtha Company, the Harlem Company was awarded all the lamps situated between Seventy-ninth street on the south and Harlem river and Spuyten Duyvil Creek on the north. Of these lamps, all lying east of the westerly side of Fifth avenue (2,110 in number) had been lighted during the past nine months by the New York and New Jersey Globe Gas-light Company with naphtha, under the contract which expired on the night of December 31, the Harlem contract commencing on January 1. As I did not desire to have an account with the Naphtha Company for a small fraction of the month of January, I directed the Harlem Gas Company to make such arrangements as would insure an immediate transfer of all the lamps to their account, and the lighting of the same on the night of January 1; and the matter was so perfected that the entire twenty-one hundred and ten lamps which had been lighted by naphtha on the night of December 31 were lighted by gas on the following night of January 1.

The following statement is a summary of the awards of contracts made by the Gas Commission on December 14 and 15, for furnishing the gas, lighting, extinguishing, cleaning, and repairing the public lamps for the four months ending April 30, 1878:

TO WHOM AWARDED.	Price for Gas, Lighting, etc., each Lamp, 4 months.	Straightening each Lamp-post.	Relining each Column.	Refitting each Column.	Removing each Lamp-post.	Resetting each Lamp-post.	For each New Lamp-post Fitted up.
New York Gas-light Co.	\$6 00	\$1 50	\$1 50	\$3 50	\$3 50	\$10 00	\$10 00
Manhattan Gas-light Co.	6 00	1 50	1 50	3 50	3 50	10 00	10 00
Metropolitan Gas-light Co.	6 00	2 00	2 00	3 00	3 00	8 00	8 00
N. Y. Mutual Gas-light Co.	8 00	1 50	1 50	3 50	3 50	10 00	10 00
Harlem Gas-light Co.	7 00	3 00	3 00	4 00	4 00	10 00	10 00
Yonkers Gas-light Co.	12 00	1 50	1 50	3 00	3 00	8 00	8 00

By the above awards each gas company retains the lamps lighted by it during the past nine months. The Harlem Gas Company will have an increase by the transfer of the lamps east of Fifth avenue, before referred to. A copy of the contract made in accordance with the above awards is hereto annexed, for which see Exhibit "F," this contract answering for all except as to prices and districts.

The following statement is a comparison of the prices to be paid for lighting the public lamps, situated south of Harlem river, for the four months ending April 30, 1878, with the corresponding

* Nearly eleven miles of the mains owned by this company were laid under permits given to the Knickerbocker Gas-light Company prior to the action of the Gas Commission giving permission to the Municipal Gas-light Company to lay mains throughout the city. Of the mains owned by this company it has about twenty miles which have not been filled with gas in consequence of the delay in the completion of the new works, and hence the inability of the company to manufacture a sufficient supply of gas. In the conditions prescribed by the Gas Commission, under which the Municipal Gas Company has the right to lay mains in the streets, avenues, and places of the city, it is provided in article 6 that "from and after the first day of January, 1878, gas shall be supplied to all persons residing or doing business on the line or lines of the mains who may desire the same." In consequence, however, of the non-completion of the new works, before referred to, the company has been unable to comply with the provisions of this article, and hence it applied for an extension of the time fixed in the conditions. It having been ascertained that the delay was unavoidable and beyond the control of the company, the Gas Commission has extended the time until July 1, 1878.

period of 1877; showing the number of lamps to be lighted by each gas company on January 1, the saving per lamp, and the total saving for the four months of 1878:

GAS COMPANY.	Number of Lamps in District.	Price for 4 months of 1877.	Price for 4 months of 1878.	Saving per Lamp over 4 months of 1877.	Total Saving over 4 months of 1877.
New York Gas-light Co.....	3,085	\$8 87 7-9	\$6 00	\$2 87 7-9	\$8,877 94
Manhattan Gas-light Co.....	6,559	8 87 7-9	6 00	2 87 7-9	18,990 45
Metropolitan Gas-light Co.....	3,804	11 33 1-3	6 00	4 43 1-3	16,864 40
N. Y. Mutual Gas-light Co.....	586	9 97 2-9	8 00	1 97 2-9	1,155 72
Harlem Gas-light Co.....	4,208	13 32	7 90	5 42	22,807 30
Total saving.....					\$68,695 87

The above total is the saving on the actual number of lamps burning on January 1, and, of course, a proportionate saving will also be effected on all new lamps which may be lighted by any of these companies during the four months.

The following statement shows the prices named in the proposals for furnishing gas to the various public markets and offices under the care of this Department, for the year 1878, with a comparison of the year 1877, and the saving on the actual amount of gas consumed in 1877:

GAS COMPANY.	Consumption of Gas in 1877.	Price per 1,000 feet in 1877.	Price per 1,000 feet in 1878.	Saving per 1,000 feet for 1878.	Total Saving for 1878.
	Cubic feet.				
New York Gas-light Co.....	5,443,500	\$2 40	\$1 90	\$0 50	\$2,721 75
Manhattan Gas-light Co.....	3,183,166	2 40	1 90	50	1,591 58
Metropolitan Gas-light Co.....	149,464	2 50	2 25	25	37 66
N. Y. Mutual Gas-light Co.....	1,500	2 50	2 00	50	75
Harlem Gas-light Co.....	421,047	2 75	2 75	....	.....
Totals.....	9,198,677				\$4,351 74

The price per one thousand cubic feet charged to private consumers is as follows:

New York Gas-light Company.....	\$2 50
Manhattan Gas-light Company.....	2 50
Metropolitan Gas-light Company.....	2 25
N. Y. Mutual Gas-light Company.....	2 50
Harlem Gas-light Company.....	2 75
Municipal Gas-light Company.....	2 50
Central Gas-light Company.....	3 00
Suburban Gas-light Company.....	3 50

From and after July 1, 1878, the Municipal Gas Company will be required by the conditions prescribed by the Gas Commission to furnish gas to all persons on the line of its mains at a rate not to exceed two dollars and forty cents per thousand cubic feet.

The following statement is a comparison of the expenditure of this bureau for the year 1877 with the four preceding years:

NATURE OF EXPENDITURE.	1873.	1874.	1875.	1876.	1877.
<i>For Old Wards.</i>					
For gas to and lighting public lamps.....	\$698,577 21	\$582,401 64	\$570,840 23	\$506,317 96	\$458,217 52
Supplies and maintenance of public lamps.....	28,344 34	31,505 04	30,908 84	34,654 26	31,902 03
Supply of gas to public buildings.....	19,694 79	24,244 84	23,842 45	21,143 80	22,239 27
Total for Old Wards.....	\$746,616 34	\$638,151 52	\$625,591 52	\$562,116 02	\$512,358 82
<i>For Twenty-third and Twenty-fourth Wards.</i>					
For gas to and lighting public lamps.....	.....	\$118,216 08	\$115,418 50	\$114,616 68	\$118,245 32
Supplies and maintenance of public lamps.....	.....	642 00	80 50	2,616 40	1,972 10
Total for New Wards.....	.....	\$118,858 08	\$115,499 00	\$117,233 08	\$120,217 42
Grand Total.....	\$746,616 34	\$757,009 60	\$741,150 52	\$679,349 10	\$632,576 24

The total expenditures of the Bureau of Lamps and Gas for the year 1877 has been less than for any of the previous years since 1864, while the business of the bureau has very materially increased in consequence of the growth of the city, the annexation of the Twenty-third and Twenty-fourth Wards, and the consolidation of the city and county; the increase in the number of street-lamps since 1864 being five thousand. The reduction for 1877 over the six previous years is as follows:

Less than 1871.....	\$543,892 50
" 1872.....	199,470 83
" 1873.....	114,040 10
" 1874.....	124,433 36
" 1875.....	108,574 28
" 1876.....	46,772 86

This, I think, is a very favorable exhibit, and I confidently believe that the expenditure for the current year will show a still more gratifying result, and the proportionate rates for lighting such of the public lamps as are situated south of the Harlem river will be lower than ever before paid since the introduction of gas in this city. It should be remembered in this connection, that the contracts for lighting the public lamps in the Twenty-third and Twenty-fourth Wards were made by the respective town officers, prior to the annexation of these wards to this city, and that the same are for a term of ten years or until the year 1881. By these contracts the city is bound by the prices stipulated therein for all the lamps which existed at the time annexation went into effect, and, hence, no saving can be effected on these lamps. In regard to all new lamps, however, which have been or may hereafter be erected, a very favorable reduction from the contract prices has been obtained.

In my report of September 30 last, I stated that rooms had been procured in Seventy-ninth street, at which the gases of the Metropolitan and Harlem Companies could be tested, and that the necessary apparatus was then in course of manufacture. This work has been completed, so that the gases of all the companies doing business south of Harlem river can now be examined. In Exhibit "F" will be found a statement showing the illuminating power of the gas supplied by the several companies during the quarter.

The following table will show the amount of impurities found in the analysis of the gas of the several companies:

OF WHAT COMPANY.	Sulphureted Hydrogen.	Sulphur. (Grs. in 100 cu. ft.)	Ammonia. (Grs. in 100 cu. ft.)
New York Gas-light Co.....	None.	43.38	0.79
Manhattan Gas-light Co.....	"	24.67	7.40
New York Mutual Gas-light Co.....	"	8.14	0.87
Metropolitan Gas-light Co.....	"	19.22	5.11
Harlem Gas-light Co.....	"	58.57	0.97

The tests for the above were made with the referee's apparatus, the amount of gas burned for each test was ten cubic feet, the volume being corrected to the standard barometric pressure of 30 inches of mercury and the temperature of 60 degrees Fahr.

The following is the specific gravity of the gases:

New York Gas-light Co.....	Specific gravity, 471
Manhattan Gas-light Co.....	" 465
New York Mutual Gas-light Co.....	" 714
Metropolitan Gas-light Co.....	" 561
Harlem Gas-light Co.....	" 459

The following will show the average maximum and minimum pressure on the mains of the several gas companies during the quarter as recorded on the pressure registers in the photometrical rooms:

OF WHAT COMPANY.	Average Maximum Pressure.	Average Minimum Pressure.	WHERE TAKEN.	Distance from Gas Works.
	Inches.	Inches.		Miles.
New York Gas-light Co.....	2 1-10	1 5-10	Grand and Centre streets.....	2 4-100
Manhattan Gas-light Co.....	2 4-10	1 2-10	" " ".....	1 33-100
New York Mutual Gas-light Co.....	2 4-10	1 2-10	" " ".....	1 79-100
Metropolitan Gas-light Co.....	1 8-10	7-10	Seventy-ninth street, between Second and Third avenues.....	3 33-100
Harlem Gas-light Co.....	3 1-10	1 1-10	Seventy-ninth street, between Second and Third avenues.....	1 75-100

While engaged during the past summer and autumn in the locating and fitting up of the lamps on the public piers, I had occasion to make frequent visits to the water-fronts, and at these times I saw the importance of properly lighting the piers and bulkheads, particularly such of the piers as are used for passenger landings. I found, moreover, that these piers could be lighted in a more efficient and ornamental manner under circumstances other than those which now exist. I was also an observer of the dangers and annoyances to which our citizens were subjected in their endeavor to reach or leave the excursion steamers when desirous of enjoying a brief respite from the summer heats of this metropolis; and as an illustration of some of the inconveniences of reaching the boats I will refer to the pier at foot of Twenty-second street, North river, although most of the other piers may be placed in the same category. While erecting the lamps on this pier I found two of our largest excursion steamers moored thereto and awaiting the time for their departure, one for Coney Island and the other for Rockaway. The people, a large majority of whom were women and children, were thronging the pier in crowds, all anxiously endeavoring to find a way to the boats. In the slips adjoining the pier were two barges discharging lumber and one barge discharging coal. On each side of the pier was a pile of lumber with a passageway between of about twenty feet, and across this open and, at the time, only available space, a lumber wagon was placed for the purpose of taking on lumber, thereby completely blocking the passage until such time as the cartman had secured his load, and, hence, during the interval the people were prevented from reaching the boat except at the risk of life or limb. Again, at midday, at least five hundred people were on this pier awaiting the arrival of the boats and exposed to the rays of a hot summer sun, liable to have their health endangered to a greater extent than it could possibly be improved by the anticipated trip to the seaside. It seemed to me that such things should not be permitted to exist, especially when the remedy is so easy of solution. As a preventative of the difficulties above referred to, it appeared to me that certain piers should be selected on the North and East rivers, convenient to the cross-town lines of cars, and that they should be reserved exclusively for the use of passenger steamers, and the discharging thereon of such freights as lumber, coal, brick, and hay should be prohibited during the excursion season. These piers could then be lighted by a row of lamps placed five or six feet from the backing-log or string-piece, thereby forming a safe and convenient footpath for pedestrians free from the encroachment of vehicles, and the lamps would remain in good condition without the liability of being knocked over or broken by cars. A light shed or roof with open sides near the end of the pier would afford the necessary protection from the sun, or from the rain which is sometimes falling during the landing of the excursionists. Piers of this kind should be retained from year to year, and hence the public would become familiar with their location, whereas under the present arrangements probably a majority of the people are unacquainted with their localities and know not how to reach them, this lack of information being caused, in a measure, by the frequent changes of location, excursion steamboats using one pier for a season and being compelled to use another the next. The above suggestions, if carried into effect, would prove advantageous in several respects. It would redound to the credit of the city and be a pecuniary benefit to the owners of the boats using such piers, inasmuch as an increased amount of travel would be had if the people could be insured that they could reach and leave these landings with comfort, convenience, and safety.

The obstructions of the public lamps by the telegraph poles of the Fire Department and the Western Union and Atlantic & Pacific Telegraph Companies are becoming so numerous that I deem it proper to call attention to the matter. In many cases poles of the largest dimensions are erected in close proximity to the lamp, in some places but a few inches of space being left between the lamp and the pole, and, as a necessary consequence, the light from the lamp is entirely obstructed and useless on one side. I find, moreover, that these obstructions most generally occur on the street corners, where all the light that can possibly be obtained is required to light the public crossings. Surely our streets are none too well lighted that we can afford to have the public lamps so obstructed; on the contrary, it is essential that all the illuminating power of the lamps should be secured. It seems to me, therefore, that an ordinance should be adopted by the Common Council prohibiting, under a penalty, such obstructions and that the police should be required to enforce it.

The extraordinary height of many of the lamp-posts on several of the business streets is a matter to which I desire to call your attention, inasmuch as by their extreme length much of the light is wasted and the lamp-posts present an ill-proportioned and unsightly appearance. These lamps were among the first erected in this city, but after an experience of several years the discovery seems to have been made that they were not well adapted to the proper lighting of the streets, as a more suitable pattern was subsequently selected and put in use. From actual measurement of some of the posts I find that the flame is ten feet and ten inches from the ground, and as a consequence of this height it is evident that much of the light is lost in space, and hence a portion of the amount expended for the public lighting is wasted. The distance of the flame from the ground on our ordinary posts is nine feet, a difference of twenty-two inches. The length of the long posts is caused by the columns, the butts of both being about the same; the long column is six feet eleven inches in length, the ordinary column five feet two inches. As it is essential that all the light that can possibly be obtained should be made available, I think it would be advantageous if the use of these long columns could be gradually dispensed with by their removal and the substitution of the regular column. The cost of the change would be trifling in comparison with the improvement made in securing an increased amount of light from the lamps and a much more slightly appearance of the lamp-posts.

In my report for the quarter ending December 31, 1876, I called attention to the fact that under the existing provisions of the City Charter, contracts for lighting the public lamps can only be made for a term not longer than one year at any given time, and that such term must consist of the fiscal year or a portion thereof, the fiscal year being also the calendar year. In consequence of this law, all annual contracts which are required to be made must, necessarily, commence on the first day of January in each year. As a result it has been found that in the proposals received from the several gas companies, for contracts which are to commence on January 1, no competition is entered into, each company bidding only for such lamps as were then lighted by it. This non-competition arises from the fact that the gas companies hesitate to risk the change of lamp-services from one gas-main to another, because of the heavy expense involved in the opening of the streets during midwinter, when the earth is liable to be frozen to a depth of three or four feet, and when the pavement cannot be restored in a satisfactory condition. To meet the difficulty and insure competition for at least a portion of the year, two separate proposals have to be invited, the first advertisement generally appearing in December, calling for proposals for the first three months of the year, and the second appearing in March, for the succeeding nine months, and it is in these second proposals where the competition is found. To obviate the necessity of executing two contracts in each year, I suggested that the Charter ought to be amended whereby contracts for lighting the public lamps could be made for a term other than the fiscal year. At a meeting of the Gas Commission, held on December 14 last, the following resolution, meeting the suggestion above set forth, was adopted, viz.:

"Resolved, That application be made to the Legislature, at its ensuing session, for an amendment to the Charter, in order that contracts for lighting the public lamps can be made for a term other than the fiscal year, and that the Counsel to the Corporation be requested to prepare the necessary amendment for submission to the Legislature."

With the expectation that the necessary change of law might be effected within the next three or four months, the term of the contracts just executed was fixed for the four months ending April 30, 1878, with the intention of making the next contracts commence on May 1, 1878, and end on April 30, 1879, comprising eight months of the present year and four months of the next fiscal year. If this can be accomplished, then competition will be secured, and the risk of breaking up the public streets in midwinter will be avoided.

The construction of the Gilbert and New York Elevated Railways, now in rapid progress, has necessitated the displacement of many of the Corporation lamp-posts which were located on such streets as where the railway columns have been erected on the sidewalks, the removal and resetting of the lamp-posts having been done under the direction of this bureau, at the expense of the above-mentioned companies. This work has somewhat disarranged the location of the lamps, and in many cases a serious obstruction to the light will necessarily ensue, in consequence of the placing of the columns in close proximity to the lamp-posts, by which the diffusion of light from one side of the lamp will be prevented, as in the manner before referred to in regard to telegraph poles. By reason of the erection of these railways, I am of the opinion that an additional number of lamps will be required on the streets where the obstructions exist, as also on some of the columns which stand in the roadway at the intersection of the cross streets.

During the past year several owners of patents for "improved street-lamps" have called at this office with the view of having their lamps adopted by this city, each person, of course, naturally claiming that his own production was the very "acme of perfection," and just the thing needed for a public street-lamp. Being desirous of availing myself of any improvement that might be had in the lighting of the city, I have made it a practice to give all comers a careful hearing, but thus far I have not discovered any lantern better adapted to the purposes of a large city than the two styles in use here. I have long felt, however, that an improvement was needed in the lamps of this city, both

in their material and workmanship, and that a change might be made for the better in the arrangement of the door, whereby the appearance of the lantern could be much improved and the size of the door glass would be uniform with the sides, thus dispensing with some of the unnecessary margin which composes the present door and which tends so much to obstruct the light. In a large city like ours, with twenty-one thousand street-lamps, and the number continually increasing, but very few diverse patterns should be permitted to be used; this is necessary in order to prevent confusion. The style adopted should present a neat and well-proportioned appearance, and be so constructed as to diffuse all the light possible, the tin corners affording as little obstruction as is consistent with strength and durability. They should be economical in design, capable of being quickly and cheaply repaired, and readily cleaned. The material selected should be the best, and they should be made in the most durable manner, the dimensions of each lamp agreeing with such exact nicety, that a light of glass cut for one lamp should fit each and every lamp of the same pattern throughout the city. The style selected should be such as would admit of competition; with a patented article this cannot well be had. The exact uniformity of size is essential, in order that confusion and delay may be avoided in the reglazing of the lamps when the glass happens to be broken, which, in this city, is a constant occurrence. The importance of this point was learned some years since when a lot of lamps was received and distributed to the gas companies, and in the course of a short time, as the lamps required reglazing, it was discovered that a slight variation existed between the size of these lamps and the lamps generally in use throughout the city, and, as a consequence, the ordinary and regular light of glass would not fit the new lamps, and hence considerable trouble and delay ensued when reglazing was found necessary. The lamps in use in this city being made of tin, of course the natural wear and tear must be very great, because tin, under ordinary circumstances, is subject to gradual wear and decay, and street-lanterns the more so, exposed as they are to the atmosphere, the constant changes of temperature, and the destructive action of particles of unconsumed gases. There is, therefore, no true economy in procuring an inferior article, because of a low price, and then renewing the lamps in the course of a few years.

With the view of securing a lamp similar in style to those now in use, but which will present a neater and more graceful appearance, one in which the tin corners and lower edges shall obstruct the light in as small a degree as possible, while the lantern shall be stronger in every respect, and hence more durable, with the glass for the door uniform with the sides, I have caused to be made a lamp which answers the purpose, and which is now in this office, the same being made in accordance with the following

SPECIFICATIONS.

Material.—The pillars, water-table, square body-top, and bottom strips to be of the best three-cross tin. The rims under the water-table to be of 16-oz. braziers' copper. The other parts to be of the best two-cross charcoal tin.

Chimney.—The cap is 5½ inches diameter with a flange ¾ inch deep and ¼ inch diameter at narrow part, hemmed in. A top ring 3 inches diameter, with a bead on upper edge and a bead thrown out 5-16 inch from bottom edge; this enters the lower cover ½ inch. The lower cover is 6½ inches diameter, with a flange 1 inch deep and 5¼ inches diameter at narrow part; this flange is also hemmed in. Below this cover is a ring 4¼ inches diameter and 2¼ inches deep when finished; this ring has a bead thrown out at upper edge and another ¼ inch from lower edge, the lower edge to be notched and bent under the square body-top and soldered thereto. The chimney is held together by three straps, each hemmed ¼ inch on both edges, and when hemmed to be 5/8 inch in width; these straps are riveted with tinned iron rivets to the cap and lower ring and soldered on the inside to the cap and both rings. All the flanges and rings to be lapped ¼ inch.

Body-top.—The square body-top to be 5½ inches diameter when formed, to be turned down ½ inch, and hemmed inside on the four edges; this top is connected to the water-table by four top pillars.

Top-pillars.—The top-pillars are 10 inches long, cut ¾ inch wide, bent in the centre, so that when formed they measure 5/8 inch at each angle, and are soldered to the top and water-table.

Water-table.—The water-table is cut 15½ inches long and 2½ inches wide, and when formed measures 1½ inches in width; the outer edge is turned under over No. 6 Stubb's wire, and bent on inner edge 3/8 inch, on which the top glass rests. Four strips cut 13¼ inches long and ½ inch wide, and bent up 3-16 inch to give space to glass, leaving front face 5-16 inch wide, are soldered to water-table the full length. The corners of the water-table are lapped under ¼ inch at each end and firmly soldered on both sides.

Rims.—The rims are cut 14 inches long at upper edge, and 12-9-16 inches at lower edge, 2½ inches wide, bottom edge hemmed inside and top edge turned 1 inch outside, and firmly soldered to the water-table and pillars. Two small holes are punched in three of the rims, 2¼ inches from pillar, through which a tinned iron rivet is passed, and on these are placed a button cut 1½ inches long and 5/8 inch wide, having a suitable bend to firmly hold the glass; over these buttons is placed a washer riveted so that the button will turn easily.

Pillars.—The pillars are 14½ inches long and cut 1-16 inches wide, and are formed over a No. 5 Stubb's wire, so as to leave a 3-16-inch flange at each angle, against which the glass rests. These pillars are firmly soldered to the water-table and bottom.

Hinges.—On one of the pillars is placed two male hinge-pieces 1¼ inches long; the upper piece is 3/8 inches from upper end of pillar, and the lower piece is 2½ inches from bottom; these are wrapped around and firmly soldered to the pillar. These hinge-pieces enter into two female hinges 2½ inches long, which are firmly soldered on the door; one 2¼ inches from top and the other 1½ inches from bottom, and are connected by a No. 10 tinned wire; this wire is soldered on both ends.

Doors.—The door is made so as to take the same size of glass as the sides. The top, hinge side, and bottom are composed of a piece cut 1½ inches wide, hemmed on inside 3/8 inch, and wired on the outside with No. 10 wire; these pieces are bent in the centre, forming a groove in which the glass slides. The catch side is made of two strips cut 1 inch wide; the inner strip is hemmed inside on both edges so that both hems meet; the outer strip is also hemmed inside on both edges, the hems meeting, and is wired outside as above, both strips being the same width; these strips are soldered to the top and bottom of the door, leaving a space through which the glass slides. A copper tie 1 inch wide is soldered on outside of outer strip under the catch, to hold the glass in proper position. The bolt is made of No. 10 tinned wire, bent in the centre to form a ¾-inch loop; this bolt is to slide easily in a nose piece, which is soldered on the pillar upon which the door closes.

Bottom.—The bottom is made of four strips cut 8¼ inches long and 7/8 inch wide, hemmed 1/8 inch inside on upper edge and bent to a right angle, so that the ledge on which the bottom glass rests is ¼ inch wide; on the outside of these strips, except the door side, are soldered a strip 8½ inches long cut ½ inch wide, and bent under 3-16 inch to form a groove for the glass; these strips are also soldered to the pillars. Two strips are cut 4¼ inches long and 5/8 inch wide, hemmed at top edge 1/8 inch, then bent at right angles in the centre; these are soldered on inside of bottom 2½ inches from each corner facing the door; a strip 2½ inches long, made as above, is soldered across the other ends of the above two pieces, thereby forming an opening 2½x4½ inches, through which the torch is placed for lighting the lamp. From the two corners opposite the door and projecting to the 2½-inch piece, above referred to, are soldered two strips cut 7/8 inch wide and 4¾ inches long, from one end of which a piece is cut 3-16 inch deep so as to leave a 3-16-inch point at each edge, the space at base of points being ½ inch. These strips are then folded in the centre and each edge bent to a right angle so as to be ½ inch wide, leaving a 3-16-inch flange to act as a partition between the glass and a 3-16-inch ledge upon which the glass rests, of which glass there are three pieces held in place by six tin ties, one tie being soldered on the centre of three bottom strips and one each on the three inside strips.

Street Sign Rests.—Rests for street signs are soldered on the inner side of the four pillars in such manner that a double thick glass sign can be placed on each side of lamp. The tin is cut 2 inches long and 7-16 inch wide, and is bent at right angles in the centre; then a 3-16-inch bend is made 5/8 inch from end, bent to run parallel with the other part, which is 1¼ inches from bend to top; this piece is soldered on the pillar in such a manner that the top edge of street sign, which is 2¼ inches wide, will be even with the edge of rim.

Soldering.—All the joints and seams to be closely connected and firmly soldered.

Painting.—The lantern is to be thoroughly painted on the inside, in all its parts, with two coats of pure white lead in oil, and on the outside with two coats of pure green paint in oil, the painting to be done before the lamp is glazed.

Glass.—The glass to be equal to third quality American glass, and free from blemish; the top glass is cut 9 inches deep, 13 inches wide at bottom, and 5¾ inches wide at top; the side glass is cut 13½ inches long, 8½ inches wide at bottom, and 12½ inches wide at top. The side pieces of the bottom are 8 inches on outside, 4¾ inches on inside, 2¾ inches at door, and 4¼ inches at angles; the piece opposite the door is 7¾ inches on outer edge, 2½ inches on inner edge; and 4 3-16 inches at side angles.

Lanterns made strictly in accordance with the foregoing specifications, and properly painted once in each year, will last for a long series of years. It will be seen that each and every piece of the lamp is specified and the exact dimensions given; this I consider a very essential point. Heretofore no proper specifications have ever been prepared, the practice having been to give orders to different parties for a lot of lamps without specifications being furnished, and, as a consequence, the lamps of each make would sometimes vary in dimensions from an eighth to a quarter of an inch. Where a large number of lamps are in use, as in this city, the above variation causes constant delay and extra expense when the repairing of the lantern is required, because of the difference in the pieces of the several makers. If all the lamps were of the same size, and all their parts of the same dimensions and shape, then a supply of the several parts could be kept on hand, and when repairs were required the pieces would fit each and every lamp in the city.

In view, therefore, of the many advantages to be derived from the use of the lamp before referred to, I would recommend that the foregoing specification be approved and that all square lamps hereafter to be furnished be made in accordance therewith.

On the 8th of December last, permission was given Mr. Joseph W. Bartlett to connect a section of lamps on Fifth avenue, in the vicinity of Madison square, by telegraph wire, for the purpose of illustrating the practicability of lighting and extinguishing gas-lamps by the "Automatic-Electric System," all the work and experiments to be conducted without expense to the city. The wires have

now been laid under ground and several lamps connected, and an office has been opened on Broadway, between Twenty-second and Twenty-third streets, where an opportunity will soon be afforded of witnessing the operations.

My attention has several times been called to this question; first in 1859, when, as clerk in this bureau, I wrote a permit for the connecting of the lamp on the southeast corner of Broadway and Canal street, by means of a wire, to an office on Elm street, and from this place the lamp was successfully lighted, but in consequence of the great difficulty experienced in extinguishing the light the matter was finally dropped. Since that time, however, many and important discoveries have been made as to the uses to which electricity can be advantageously applied; the principal theatres of this city, the Cooper Institute, the Capitol at Washington, and many other large buildings have for some time been lighted by its aid, and in the city of Providence, R. I., a section of two hundred and twenty street-lamps are now lighted and extinguished by electricity—by what is called the "Pneumatic-Electric System." From a careful study, however, of the description and manner of working of this system, I am very decidedly of the opinion that the method is entirely too complicated and expensive to be applied to this city. The "Automatic-Electric System" of Mr. Bartlett, which will be on exhibition within a few days, is simpler, less complicated, and much cheaper, in its fittings and its working than the "Pneumatic System."

It would certainly be an interesting sight to see several thousand of our street-lamps lighted and extinguished instantaneously by means of a clock set to time-table time, and there is no doubt that in some cities this plan can be worked satisfactorily and to advantage, and especially in those places where the gas for the street-lamps is paid for by the thousand feet, and the lighting, extinguishing, etc., costs from five to seven dollars per annum for each lamp. In New York, however, the case is different. Here our lamps are paid for at a fixed price per annum, and the price covers not only the gas, lighting, and extinguishing, but other services hereinafter mentioned. Here our lamps are being continually disturbed by the varied improvements constantly in progress, and they are at all times more or less subject to displacement. In this city, during the year just passed, twenty-three hundred and fifty-nine street lamp-posts required attention in various ways at the expense of this Department; and yet these were only a portion of the lamps actually displaced, such as the bending or breaking of lamp irons, the breaking of lanterns, and the displacement of cocks, tubes, and burners, all of which would be liable to disturb or disarrange the electrical apparatus in the lantern, and hence prevent the ignition of the gas. These things are occurring daily, and it sometimes happens that a lamp-post is broken down on our business streets just before night-fall or lighting-time, and in such case, if the wire should be broken, a workman would have to be sent to the break to make the connection, or else all the lamps on that circuit would remain unlighted unless lighted by hand. The lamp-lighters of this city receive from \$3 to \$3.75 per annum for the care of each lamp. For this they light, extinguish, clean, and reglaze the lamps, see that the cocks, tubes, and burners are in proper order, and change them when necessary, and in the winter months they are required to keep the stand-pipes free from obstructions by hoar frost—the glass, putty, cocks, tubes, burners, alcohol, etc., being furnished them by the gas companies. They are also required to report all accidents, leaks, removal of lamp-posts, etc., as soon as discovered, and they are held to such a strict accountability as to the condition of their lamps that each lighter may be considered almost an inspector. Now, it is plain to be seen that the work which is required of the lighter in addition to the lighting and extinguishing cannot be done by the aid of electrical apparatus, but that men must be employed for the purpose, hence I have thus far been unable to discover any advantages to be obtained by this city using the system.

All of which is respectfully submitted,

S. McCORMICK, Supt. Lamps and Gas.

EXHIBIT "A."

Abstract of Vouchers certified by the Superintendent of Lamps and Gas on account of the Appropriation for Lamps and Gas, etc., for the Quarter ending December 31, 1877.

DATE OF VOUCHER.	NO. OF VOUCHER.	IN WHOSE FAVOR.	FOR WHAT PURPOSE.	AMOUNT.
1877.				
Sept. 29	460	New York Gas-light Co.	Lighting public lamps, month of September	\$4,468 56
" 29	461	Manhattan Gas-light Co.	Lighting public lamps, month of September	9,375 92
Oct. 1	462	Metropolitan Gas-light Co.	Lighting public lamps, month of September	8,844 70
" 1	463	New York Mutual Gas-light Co.	Lighting public lamps, month of September	1,446 25
Sept. 29	464	Harlem Gas-light Co.	Lighting public lamps, month of September	5,773 59
Oct. 1	465	N. Y. and N. J. Globe Gas-light Co.	Lighting public lamps, month of September	4,623 63
Sept. 29	466	Central Gas-light Co.	Lighting public lamps, month of September	5,625 00
" 29	467	Central Gas-light Co.	Lighting public lamps, month of September	182 11
Oct. 1	468	Suburban Gas-light Co.	Lighting public lamps, month of September	3,883 33
" 1	469	Suburban Gas-light Co.	Lighting public lamps, month of September	145 21
" 1	470	Yonkers Gas-light Co.	Lighting public lamps, month of September	199 44
Sept. 29	471	J. B. & J. M. Cornell	15 lamp-posts	131 25
Oct. 31	472	Pay-roll	Inspectors, month of October	508 00
" 31	473	Pay-roll	Lighters of Public Markets, month of October	95 00
" 31	474	James S. Barron & Co.	1 step ladder for Photometrical Rooms	3 00
" 12	475	U. S. Reflector Co.	12 glass half cylinders	15 00
" 13	476	E. F. Holbrook & Brothers	20 boxes glass for Twenty-third and Twenty-fourth Wards	71 20
" 16	477	J. W. Bartlett	Repairing Boulevard lamps	86 44
Nov. 5	478	Edgar Close	200 street lamps	580 00
Oct. 31	479	Manhattan Gas-light Co.	Lighting public lamps, month of October	9,187 75
" 31	480	Harlem Gas-light Co.	Lighting public lamps, month of October	6,077 33
" 31	481	New York Mutual Gas-light Co.	Lighting public lamps, month of October	1,457 21
Nov. 1	482	N. Y. and N. J. Globe Gas-light Co.	Lighting public lamps, month of October	4,438 90
Oct. 31	483	Central Gas-light Co.	Lighting public lamps, month of October	5,621 25
" 31	484	Central Gas-light Co.	Lighting public lamps, month of October	199 61
Nov. 1	485	Suburban Gas-light Co.	Lighting public lamps, month of October	3,883 33
" 1	486	Suburban Gas-light Co.	Lighting public lamps, month of October	145 21
" 1	487	Yonkers Gas-light Co.	Lighting public lamps, month of October	199 44
Oct. 31	488	New York Gas-light Co.	Gas to public markets, etc., month of October	1,297 82
" 31	489	Manhattan Gas-light Co.	Gas to public markets, etc., month of October	736 56
" 31	490	Harlem Gas-light Co.	Gas to public offices, etc., month of October	95 96
" 31	491	Metropolitan Gas-light Co.	Gas to public offices, etc., month of October	43 43
" 31	492	Metropolitan Gas-light Co.	Lighting public lamps, month of October	9,007 40
" 5	493	Alex. T. Stewart & Co.	Black muslin for Photometrical Rooms	8 61
Nov. 8	494	Henry Wallace	Carpenter work for Photometrical Rooms	44 05
" 9	495	Brauner & Foscott	1 granite base	40 00
" 30	496	Pay-roll	Inspectors, month of November	496 00
" 30	497	Pay-roll	Lighters of Public Markets, month of November	95 00
Oct. 31	498	New York Gas-light Co.	Lighting public lamps, month of October	4,661 37
Nov. 17	499	James Green	Barometer and thermometer	38 00
" 17	500	John J. Leddy	Painting lamp-posts, Twenty-third and Twenty-fourth Wards	35 70
" 19	501	J. L. Mott Iron Works	50 Crossheads	75 00
" 20	502	J. L. Mott Iron Works	Ornamental lamp	109 25
" 21	503	Eimer & Amend	Chloride of ammonia, etc.	2 13
" 20	504	W. W. Goodwin & Co.	Ammonia saturator, etc.	25 00
" 20	505	W. W. Goodwin & Co.	Gas governors	30 75
" 20	506	W. W. Goodwin & Co.	1 five-foot gas holder	120 00
" 30	507	W. W. Goodwin & Co.	Photometrical apparatus	758 00
Dec. 1	508	New York Mutual Gas-light Co.	Lighting public lamps, month of November	1,452 21
Nov. 30	509	N. Y. and N. J. Globe Gas-light Co.	Lighting public lamps, month of November	4,558 95
" 30	510	Central Gas-light Co.	Lighting public lamps, month of November	5,630 62
" 30	511	Central Gas-light Co.	Lighting public lamps, month of November	232 11
" 30	512	Suburban Gas-light Co.	Lighting public lamps, month of November	3,883 33
Dec. 1	513	Suburban Gas-light Co.	Lighting public lamps, month of November	145 21
" 1	514	Yonkers Gas-light Co.	Lighting public lamps, month of November	209 50
Nov. 30	515	New York Gas-light Co.	Gas to public markets, etc., month of November	1,307 76
" 30	516	Manhattan Gas-light Co.	Gas to public markets, etc., month of November	683 76
" 30	517	Metropolitan Gas-light Co.	Gas to Fourth District Police Court, month of November	37 35
" 30	518	Harlem Gas-light Co.	Gas to public offices, month of November	106 40
" 23	519	Michael Smith	Gas fitting, Photometrical Rooms, Seventy-ninth street	172 73
" 30	520	New York Gas-light Co.	Lighting public lamps, month of November	4,395 40
" 30	521	New York Gas-light Co.	Lighting 20 public lamps, January 1 to April 1	150 00
" 30	522	Manhattan Gas-light Co.	Lighting public lamps, month of November	9,145 07
" 30	523	Metropolitan Gas-light Co.	Lighting public lamps, month of November	8,968 09
" 30	524	Harlem Gas-light Co.	Lighting public lamps, month of November	5,841 92
Dec. 4	525	E. P. Gleason Manufacturing Co.	995 glass street signs	199 00
" 10	526	Endicott & Co.	Maps of Harlem Gas District	130 00
" 12	527	Benj. S. Tyndall	Lettering globe lamps	59 50
" 12	528	H. C. Bowen	Thermometer and barometer	50 00
Nov. 20	529	Francis McEntee	Setting granite base	25 00
Dec. 31	530	Pay-roll	Inspectors, month of December	500 00
" 31	531	Pay-roll	Lighters of Public Markets, month of December	95 00
" 31	532	New York Gas-light Co.	Lighting public lamps, month of December	4,290 60
" 31	533	Manhattan Gas-light Co.	Lighting public lamps, month of December	9,123 00
" 31	534	Metropolitan Gas-light Co.	Lighting public lamps, month of December	8,903 45
" 31	535	Harlem Gas-light Co.	Lighting public lamps, month of December	5,835 04
" 31	536	N. Y. Mutual Gas-light Co.	Lighting public lamps, month of December	1,448 72
" 31	537	N. Y. and N. J. Globe Gas-light Co.	Lighting public lamps, month of December	4,637 42
" 31	538	Central Gas-light Co.	Lighting public lamps, month of December	5,640 00
" 31	539	Central Gas-light Co.	Lighting public lamps, month of December	182 11
" 31	540	Suburban Gas-light Co.	Lighting public lamps, month of December	3,883 33
" 31	541	Suburban Gas-light Co.	Lighting public lamps, month of December	145 21
" 31	542	Yonkers Gas-light Co.	Lighting public lamps, month of December	202 25
" 31	543	New York Gas-light Co.	Gas to public markets, etc., month of December	1,325 06
" 27	544	Manhattan Gas-light Co.	Gas to public markets, etc., month of December	646 80
" 27	545	Metropolitan Gas-light Co.	Gas to public offices, etc., month of December	34 65

DATE OF VOUCHER.	NO. OF VOUCHER.	IN WHOSE FAVOR.	FOR WHAT PURPOSE.	AMOUNT.
1877. Dec. 27	546	Harlem Gas-light Co.....	Gas to public offices, etc., month of December.	\$119 89
" 31	547	N. Y. Mutual Gas-light Co.....	Gas to Photometrical Rooms, month of December.	3 75
" 31	548	Odd Fellows' Hall Association.....	Rent of offices for photometrical tests.	116 67
" 31	549	O. T. Marshall.....	Rent of offices for photometrical tests.	100 00
Total amount of vouchers drawn for Lamps and Gas.....				\$189,817 47
On Account of Contingencies—Department Public Works.				
Oct. 1	459	S. McCormick.....	Hire of horse and wagon and traveling expenses.	\$62 50
Dec. 31	550	S. McCormick.....	Hire of horse and wagon and traveling expenses.	62 50
Total amount of vouchers drawn for Contingencies—Department of Public Works..				\$125 00

EXHIBIT "B."

Statement showing the Amounts on Vouchers drawn for Gas to the various Public Markets, Offices, etc., and for Fitting-up, Repairing, and Lighting the Public Lamps, etc., for the First, Second, Third, and Fourth Quarters of the year 1877, with the Totals for the whole Year.

	First Quarter ending March 31.	Second Quarter ending June 30.	Third Quarter ending September 30.	Fourth Quarter ending December 31.	Total for Year 1877.
Washington Market.....	\$566 11	\$483 12	\$437 76	\$642 82	\$2,129 81
Catharine Country Market.....	47 28	29 76	22 80	66 24	166 08
Catharine Meat Market.....	42 00	21 12	21 84	37 68	122 64
Fulton Meat Market.....	205 68	136 08	141 84	226 08	709 68
Essex Market.....	427 44	318 24	272 64	432 32	1,454 64
Centre Market.....	234 90	180 72	158 16	143 28	717 12
Clinton Market.....	390 00	313 20	304 08	355 92	1,363 20
Union Market.....	364 32	247 20	240 48	330 72	1,182 72
Tompkins Market.....	58 80	33 12	35 52	62 64	190 08
Jefferson Market.....	311 04	166 08	134 16	254 16	865 44
First District Police Court.....	157 68	110 16	105 84	150 96	524 64
Second District Police Court.....	126 24	234 00	198 00	250 20	811 44
Third District Police Court.....	183 36	75 36	21 60	73 92	354 24
Fourth District Police Court.....	121 44	98 40	75 36	116 40	411 60
Fifth District Police Court.....	93 25	48 25	40 73	104 18	286 41
Court of Special Sessions.....	30 80	14 20	5 22	28 32	78 63
Second District Civil Court.....	3 36	2 64	.....	2 64	8 64
Third District Civil Court.....	26 16	15 60	12 48	22 56	76 80
Fourth District Civil Court.....	10 32	3 60	.....	.....	13 92
Fifth District Civil Court.....	3 84	3 12	1 92	5 28	14 16
Sixth District Civil Court.....	8 16	7 44	4 56	7 68	27 84
Eighth District Civil Court.....	6 72	1 44	1 20	6 96	16 32
Ninth District Civil Court.....	8 88	5 76	4 80	9 12	28 56
Marine Court.....	1 64	2 47	.....	3 02	7 13
Brown Stone (Court-room) Building.....	10 32	6 00	5 04	9 36	30 72
New Court-house.....	75 46	36 24	22 80	48 00	182 50
City Hall.....	1,128 24	839 04	577 44	950 00	3,497 52
Receiver of Taxes' Office.....	774 72	607 68	574 07	750 00	2,706 47
Corporation Attorney's Office.....	300 72	159 36	80 88	497 76	1,048 72
Rivington Street Pipe Yard.....	83 76	40 56	28 08	42 24	194 64
Department of Buildings' Office.....	7 44	4 08	3 36	6 72	21 60
County Jail.....	3 60	1 20	9 60	2 64	8 40
South Gate-house.....	506 16	338 88	300 48	516 96	1,662 48
Engineer of Boulevards' Office.....	25 84	14 02	9 07	17 86	66 79
Engine-house at High Bridge.....	2 19	55	1 37	55	4 66
Photometrical Rooms, Grand and Centre streets.....	261 79	204 87	189 19	257 11	912 96
Photometrical Rooms, 231 East Seventy-ninth street.....	.....	.....	4 56	14 79	19 35
Public Bath, Gouverneur slip.....	.....	.....	.....	2 14	2 14
Public Bath, Bethune street.....	.....	12 96	73 68	20 64	107 28
Public Bath, Fifth street, East river.....	.....	11 76	52 80	12 00	76 56
Public Bath, Thirty-seventh street, East river.....	.....	5 04	48 96	7 92	55 92
Public Bath, Fifty-first street, North river.....	.....	6 00	40 37	7 34	53 71
Public Bath, One Hundred and Fourteenth street, East river.....	.....	2 00	27 63	3 69	33 32
Lighting Public Markets (Pay-rolls).....	.....	5 22	67 10	13 47	85 79
Inspectors of Lamps (Pay-rolls).....	285 00	285 00	285 00	285 00	1,140 00
New Lamp-posts.....	1,200 00	1,244 00	1,504 00	1,504 00	4,848 00
New Street-lamps.....	225 00	540 00	906 25	131 25	1,802 50
New Boulevard-lamps.....	588 00	1,568 00	758 50	704 25	3,618 75
New Crossheads.....	342 50	803 50	562 90	.....	1,708 90
New Lamp-irons.....	.....	337 50	210 00	75 00	622 50
New Lamp-brackets.....	.....	200 00	200 00	.....	400 00
Glass Street-signs.....	.....	9 00	39 00	.....	48 00
Fitting-up New Lamp-posts.....	.....	573 20	968 21	258 50	1,799 91
Public Piers, Lamp-posts, Lamps, and Fittings.....	24 00	490 00	1,332 00	1,544 00	3,390 00
Photometrical Rooms, Grand and Centre streets—Fitting-up.....	.....	.....	713 04	.....	713 04
Photometrical Rooms, Grand and Centre streets—Rent.....	.....	.....	2,073 65	241 88	2,315 53
Photometrical Rooms, 231 East Seventy-ninth street—Fitting-up.....	.....	.....	116 67	116 67	233 34
Photometrical Rooms, 231 East Seventy-ninth street—Rent.....	.....	.....	.....	1,021 39	1,021 39
Resetting and Repairing Lamp-posts.....	.....	.....	.....	100 00	100 00
Repairing Public Lamps.....	474 50	1,768 00	2,328 00	940 00	5,510 50
Drawing Instruments.....	31 68	335 25	.....	86 44	421 60
Lamp Maps.....	.....	.....	12 80	.....	44 48
Granite Base.....	.....	.....	120 00	130 00	250 00
New Street-lamps, Twenty-third and Twenty-fourth Wards.....	.....	.....	65 00	65 00	130 00
New Lamp-posts, Twenty-third and Twenty-fourth Wards.....	.....	145 00	217 50	.....	362 50
New Lamp-irons, Twenty-third and Twenty-fourth Wards.....	.....	540 00	712 50	.....	1,252 50
New Boulevard-lamps, Twenty-third and Twenty-fourth Wards.....	.....	93 50	75 00	.....	168 50
Glass, Twenty-third and Twenty-fourth Wards.....	.....	.....	90 00	.....	90 00
Fitting-up New Lamp-posts, Twenty-third and Twenty-fourth Wards.....	.....	71 20	.....	71 20	142 40
Resetting and Repairing Lamp-posts, Twenty-third and Twenty-fourth Wards.....	.....	.....	1,118 00	8 00	1,126 00
Painting Lamp-posts, Twenty-third and Twenty-fourth Wards.....	.....	39 00	471 50	67 50	578 00
Lighting Public Lamps (Gas).....	.....	.....	.....	35 70	35 70
Lighting Public Lamps (Naphtha).....	101,669 54	112,625 00	87,007 23	117,870 59	418,872 36
Lighting Public Lamps, Twenty-third and Twenty-fourth Wards.....	.....	7,152 08	13,934 17	18,258 91	39,345 16
Totals.....	\$130,413 53	\$162,714 38	\$149,630 86	\$189,817 47	\$632,576 24
Contingencies.....	.....	\$72 50	\$62 50	\$125 00	\$260 00

EXHIBIT "C."

Summary of the Appropriation for "Lamps and Gas for 1877," showing the Amount of Expenditures during the year, with the Balance Standing to the Credit of the Appropriation.

Amount appropriated for Lamps and Gas, 1877.....	\$725,000 00
Amount of vouchers drawn in first quarter, ending March 31.....	\$130,413 53
Amount of vouchers drawn in second quarter, ending June 30.....	162,714 38
Amount of vouchers drawn in third quarter, ending September 30.....	149,630 86
Amount of vouchers drawn in fourth quarter, ending December 31.....	189,817 47
Balance.....	\$92,423 76

Le amount transferred by Board of Apportionment, as follows:

July 24 To Repairing and Renewal of Pipes and Stop-cocks.....	\$21,232 27
" 24 To Repairing under chapter 476, Laws of 1876.....	15,000 00
" 24 To Third District Court-house Fund.....	18,000 00
" 24 To Contingencies—Mayor's Office.....	3,000 00
" 23 To Roads and Avenues.....	1,671 78
Sept. 10 To Repairs and Renewal of Pavements.....	25,000 00
Oct. 23 To Boulevards, Roads, and Avenues, Maintenance of.....	5,000 00
" 23 To Aqueduct—Repairs and Maintenance.....	3,000 00

Total transfers.....	91,904 05
Surplus balance.....	\$519 71

EXHIBIT "D."

Summary of the "Lamp Account," showing the number of New Lamps Lighted, Old Lamps Relighted, and number Discontinued by each Gas Company, during the Quarter ending December 31, 1877, with a Recapitulation for the whole Year.

NEW YORK GAS-LIGHT COMPANY.

Number of lamps burning September 30, 1877.....	3,037
Number of new lamps lighted during the quarter ending December 31, 1877.....	30
Number of old lamps relighted during the quarter ending December 31, 1877.....	29
Less lamps discontinued during the quarter ending December 31, 1877.....	3,096
Total number of lamps burning December 31, 1877.....	3,085

MANHATTAN GAS-LIGHT COMPANY.

Number of lamps burning September 30, 1877.....	6,595
Number of new lamps lighted during the quarter ending December 31, 1877.....	8
Number of old lamps relighted during the quarter ending December 31, 1877.....	6,603
Less lamps discontinued during the quarter ending December 31, 1877.....	4
Total number of lamps burning December 31, 1877.....	6,599

METROPOLITAN GAS-LIGHT COMPANY.

Number of lamps burning September 30, 1877.....	3,771
Number of new lamps lighted during the quarter ending December 31, 1877.....	26
Number of old lamps relighted during the quarter ending December 31, 1877.....	15
Less lamps discontinued during the quarter ending December 31, 1877.....	3,812
Total number of lamps burning December 31, 1877.....	3,804

HARLEM GAS-LIGHT COMPANY.

Number of lamps burning September 30, 1877.....	2,060
Number of new lamps lighted during the quarter ending December 31, 1877.....	28
Number of old lamps relighted during the quarter ending December 31, 1877.....	19
Less lamps discontinued during the quarter ending December 31, 1877.....	2,107
Total number of lamps burning December 31, 1877.....	2,098

NEW YORK MUTUAL GAS-LIGHT COMPANY.

Number of lamps burning September 30, 1877.....	585
Number of new lamps lighted during the quarter ending December 31, 1877.....	1
Number of old lamps relighted during the quarter ending December 31, 1877.....	586
Less lamps discontinued during the quarter ending December 31, 1877.....	.....
Total number of lamps burning December 31, 1877.....	586

NEW YORK AND NEW JERSEY GLOBE GAS-LIGHT COMPANY.

Number of lamps burning September 30, 1877.....	2,110
Number of new lamps lighted during the quarter ending December 31, 1877.....	.....
Number of old lamps relighted during the quarter ending December 31, 1877.....	.....
Less lamps discontinued during the quarter ending December 31, 1877.....	2,110
Total number of lamps burning December 31, 1877.....	2,110

CENTRAL GAS-LIGHT COMPANY.

Number of lamps burning September 30, 1877.....	1,585
Number of new lamps lighted during the quarter ending December 31, 1877.....	.....
Number of old lamps relighted during the quarter ending December 31, 1877.....	5
Less lamps discontinued during the quarter ending December 31, 1877.....	1,590
Total number of lamps burning December 31, 1877.....	1,590

SUBURBAN GAS-LIGHT COMPANY.

Number of lamps burning September 30, 1877.....	973
Number of new lamps lighted during the quarter ending December 31, 1877.....	.....
Number of old lamps relighted during the quarter ending December 31, 1877.....	973
Less lamps discontinued during the quarter ending December 31, 1877.....	.....
Total number of lamps burning December 31, 1877.....	973

YONKERS GAS-LIGHT COMPANY.

Number of lamps burning September 30, 1877.....	71
Number of new lamps lighted during the quarter ending December 31, 1877.....	1
Number of old lamps relighted during the quarter ending December 31, 1877.....	72
Less lamps discontinued during the quarter ending December 31, 1877.....	.....
Total number of lamps burning December 31, 1877.....	72
Total number of lamps burning December 31, 1877.....	20,917

RECAPITULATION FOR QUARTER.

Number of lamps burning September 30, 1877.....	20,787
Number of new lamps lighted during the quarter ending December 31, 1877.....	94
Number of old lamps relighted during the quarter ending December 31, 1877.....	68
Less lamps discontinued during the quarter ending December 31, 1877.....	162
Total number of lamps burning December 31, 1877.....	20,949

RECAPITULATION FOR YEAR.

Number of lamps burning December 31, 1876.....	20,399
Number of new lamps lighted during the year ending December 31, 1877.....	545
Number of old lamps relighted during the year ending December 31, 1877.....	159
Less lamps discontinued during the year ending December 31, 1877.....	704
Total number of lamps burning December 31, 1877.....	21,103*
Less lamps discontinued during the year ending December 31, 1877.....	186
Total number of lamps burning December 31, 1877.....	20,917

EXHIBIT "E."

Statement giving the Illuminating Power of the Gas supplied by the several Gas-light Companies, during the Quarter ending December 31, 1877, as shown by the daily observations at the Photometrical Rooms of the Department of Public Works.

FOR WHAT TIME.	NEW YORK GAS CO., ILLUMINATING POWER IN CANDLES.			MANHATTAN GAS CO., ILLUMINATING POWER IN CANDLES.			NEW YORK MUTUAL GAS CO., ILLUMINATING POWER IN CANDLES.			METROPOLITAN GAS CO., ILLUMINATING POWER IN CANDLES.			HARLEM GAS CO., ILLUMINATING POWER IN CANDLES.		
	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.
During the week ending—															
Oct. 6....	16.28	17.33	16.86	17.22	18.36	17.87	17.36	20.60	19.20	.....	.....	.....	.....	.....	.....
" 13....	16.73	17.49	17.11	16.65	18.13	17.07	18.14	21.02	19.46	.....	.....	.....	.....	.....	.....
" 20....	16.46	17.57	17.06	17.07	18.24	17.55	18.85	20.15	19.47	.....	.....	.....	.....	.....	.....
" 27....	16.07	17.11	16.55	16.72	18.51	17.75	18.70	20.22	19.40	.....	.....	.....	.....	.....	.....
Nov. 3....	16.18	17.02	16.43	16.56	17.60	17.17	18.40	19.30	19.03	.....	.....	.....	.....	.....	.....
" 10....	15.77	16.94	16.48	16.19	17.35	16.88	17.63	19.16	18.49	.....	.....	.....	.....	.....	.....
" 17....	16.08	16.54	16.33	16.94	17.23	16.96	18.73	19.56	19.04	.....	.....	.....	.....	.....	.....
" 24....	16.05	16.57	16.34	16.82	18.12	17.55	18.80	20.51	19.32	15.79	16.40	16.22	15.36	16.45	15.96
Dec. 1....	14.68	16.31	15.55	15.06	17.63	16.76	17.58	19.75	18.68	16.15	16.94	16.53	15.92	16.43	16.21
" 8....	15.59	16.72	16.12	16.54	17.68	17.11	17.58	19.75	18.84	16.49	17.77	17.06	16.25	16.65	16.39
" 15....	15.93	16.71	16.27	16.50	17.30	16.89	17.43	20.17	18.56	17.28	17.88	17.45	16.08	16.31	16.17
" 22....	15.87	17.23	16.75	15.52	17.89	16.88	18.74	19.94	19.39	16.70	17.79	17.54	16.37	16.81	16.52
" 29....	16.23	17.20	16.66	16.27	17.42	16.79	17.83	18.98	18.55	17.01	18.49	17.39	16.27	16.89	16.55
Distance from Gas Works...	2 4-100 miles.			1 83-100 miles.			1 79-100 miles.			3 33-100 miles.			1 75-100 miles.		

EXHIBIT "F."

CONTRACT FOR FURNISHING THE GAS TO AND LIGHTING, ETC., THE PUBLIC LAMPS, FOR THE FOUR MONTHS ENDING APRIL 30, 1878.

This agreement, made, entered into and concluded, this twenty-fourth day of December, in the year one thousand eight hundred and seventy-seven, by and between the Mayor, Aldermen, and Commonalty of the City of New York, parties of the first part, by the Commissioner of Public Works, acting in conjunction with the Mayor and Comptroller and the New York Gas-light Company of said city, parties of the second part:

A. Witnesseth, That the said parties of the second part hereto have agreed and by these presents do agree with the said parties of the first part, for the consideration hereinafter mentioned, and under the penalty expressed in a bond, bearing even date with these presents and hereunto annexed, to furnish the illuminating gas for the lamps, and to light, extinguish, clean, repair and reglaze the lanterns, replace the cocks, tubes and burners, crossheads, lamp-irons, and lanterns, repair the lamp-posts, and to fit up and light such new lamps as may be required by the parties of the first part in the portions of the City of New York mentioned and described as follows, to wit:

In the district bounded on the north by the centre line of Grand street, from the East river to the centre line of Sullivan street, thence through the centre line of Sullivan street to the centre of Canal street, thence through the centre of Canal street to the Hudson river; on the west by the Hudson river, and on the south and east by the East river, for the term of four months, commencing January first, one thousand eight hundred and seventy-eight, and ending April thirtieth, in the same year (1878), both days inclusive.

B. And it is further agreed that the said parties of the first part shall have the right to order the pipes or gas-mains of the parties of the second part to be extended in and along all the streets, avenues, and public places within the limits aforesaid or adjacent thereto, providing the lamps lighted by the said parties of the second part shall be lighted by the material commonly called illuminating gas.

C. All the gas or materials furnished, and all the work and labor done by the parties of the second part hereto, shall be of the kinds and qualities, and furnished and done in all respects in strict conformity to the terms, conditions, and requirements of the hereinafter specifications.

D. Should any alteration or any attachment be required to any portion of the lamps to be lighted under this agreement, for the purpose of using any other material than illuminating gas, then such alteration shall be done and attachments placed on the lamps by the parties of the second part hereto at their own cost and expense.

E. If the proposal of the party hereto of the second part included any lamps with which the pipes or mains of said party of the second part were not connected at the time of the making of its proposal or bid, thirty days from the date of the execution of this agreement, and such further time, not exceeding thirty days, as may be deemed reasonable by the Commissioner of Public Works, will be allowed the party of the second part in which to connect such pipes or mains with such lamps; provided, the said party of the second part have or shall procure a grant or franchise from the Mayor, Aldermen, and Commonalty, authorizing the laying of gas-mains in the streets or parts of streets in which the said lamps are located.

F. But no payment on account of any such lamps will be made to the party of the second part for the time so allowed, nor until the same shall have been connected with the mains of the party of the second part, nor will payment be made on account of any lamp except for the time during which all the requirements herein mentioned shall have been fully performed in accordance with the following

Specifications.

1. Lighting.—The lamps shall be lighted during such times as the public lamps throughout the City of New York may be required to be lighted, by the regulations of the said parties of the first part, in accordance with a time-table to be furnished to the Commissioner of Public Works. Also, the Department of Public Works may direct and require, by notice to that effect, that all or any portion of said public lamps shall be lighted, and kept burning, at any other time or times during the continuance of this contract; and the said parties of the second part shall light the same, and continue them burning, in accordance with any and every direction of the Department of Public Works to that effect: Provided that, if in compliance with the direction of the Department of Public Works, the whole number of hours during which the said lamps, or a portion of them, are kept burning, shall exceed the average number of hours during which the public lamps throughout the city have been kept burning during the corresponding periods of the last five years, prior to the date of this contract (which the parties hereto estimate to be, and fix at, thirteen hundred and eighty-three hours and fifty-five minutes for the term), then, in that case, the said parties of the second part shall be entitled to claim and receive, for such additional number of hours, during which the public lamps, or such portion of them, in the district aforesaid, are kept burning in accordance with such direction of the said Department of Public Works, an additional compensation, equivalent to a pro rata increase of the compensation hereinafter allowed, proportioned to the increased number of hours beyond the said average number, and the number of lamps so kept burning. And also, provided, that if at any time, in compliance with the direction of the Department of Public Works, the number of hours during which the said lamps, or any portion of them, are kept burning, shall be less than the aforesaid number of thirteen hundred and eighty-three hours and fifty-five minutes per term, then, in that case, there shall be deducted an amount equivalent to a pro rata decrease below said average number of hours, and of the number of lamps so kept burning. And also, provided, that said Department of Public Works shall have the right at any time to increase or diminish the number of lamps awarded to be lighted by the parties of the second part under this contract. It is expressly agreed that the lamps shall be lighted either by means of a torch or the use of a ladder, and that the lamp-lighters will not be permitted to climb the lamp-post for such purpose. The parties of the second part to keep the service-pipes and stand-pipes (if any are used) of said lamps cleared of all obstructions and in good order, at their own cost and expense, except such service-pipes as shall have been broken or removed by the construction of sewers.

2. Illuminating Material, Quality of.—If the material to be used under this agreement shall be illuminating gas, then such gas shall be of such an illuminating power, by photometrical test made at a distance of not less than one mile from the place of manufacture, that an Argand burner having fifteen holes and a seven-inch chimney, and consuming at the rate of five cubic feet of gas per hour, shall give a light equal to the light of sixteen sperm candles, of six to the pound, and each burning at the rate of one hundred and twenty grains of spermaceti per hour, and, as regards purity, free, within limits not injurious to public health, from ammonia, sulphureted hydrogen, and other sulphur or noxious compounds. In case the illuminating material shall be other than what is commonly known as illuminating gas, then the quantity of light produced by such material shall be equal to the quantity (by photometrical test) produced by sixteen-candle coal-gas consumed by the gas-burners called for in this agreement.

3. Burners.—All the burners to be used for the illuminating material, commonly called illuminating gas, shall be of a capacity to burn, and shall burn three cubic feet of gas per hour during the time they are required to be lighted, under a pressure of one inch of water, and should the illuminating material be other than illuminating gas, then the burners to be used for such illuminating material

shall give a light (by photometrical tests) equal to the light given by the gas burners in use in the public lamps in the City of New York. The burners to be kept clear at all times so as to allow a free flow of the illuminating material.

4. Cleaning.—All the lamps to be kept in a cleanly condition, and they shall be thoroughly cleaned at least twice in each week, and oftener if the Department of Public Works shall direct or require the same.

5. Repairing and Reglazing.—The lamps to be reglazed within twenty-four hours after the same shall be broken, the glass and putty for that purpose to be furnished by the parties of the second part without cost to the city. The lanterns to be repaired and kept in repair by the parties of the second part, at their own cost and expense.

6. Repairing Lamp-posts.—Whenever the Department of Public Works shall require that any lamp-post or posts shall be straightened, or that any column or columns be releaded, or that any lamp-post or posts be repaired in any other manner in this contract specified, the same shall be done within twenty-four hours after said Department shall notify said parties of the second part of such requirement.

7. Removing Lamp-posts.—All lamp-posts to be taken down which the Department of Public Works may require to be removed for any purpose.

8. Cocks, Tubes, and Burners.—The cocks, tubes, and burners which may become worn out and useless, or which in the opinion of the Department of Public Works are worn out or useless, to be immediately replaced by the parties of the second part, at their own cost and expense.

9. Fitting up New Lamps.—New lamps for illuminating gas to be fitted up in any street, avenue, or public place wherever the same may be required, by the Department of Public Works. The parties of the second part to furnish the necessary conductors of metal to each public lamp that may be required. The service-pipe leading from the gas-main to the lamp-post, and the stand-pipe of the lamp-post to consist of three-quarter inch wrought-iron pipe. Bracket lamps to be fitted up in lieu of lamp-posts, when required, the stand-pipe of the lamp to be fastened to the wall in a firm and secure manner. The parties of the second part to make all the necessary connections from the gas-mains to the lamp, and to fit up and paint all new lamp-posts or brackets and supply with gas and light the lamps as aforesaid. It is agreed, however, that the lamp-posts, lanterns, lamp-irons, and brackets shall be furnished by the parties of the first part, through the Department of Public Works, to the said parties of the second part. New lamps which may be required to burn any other material than illuminating gas to be fitted up without service-pipes or stand-pipes.

10. Lanterns.—All lanterns which, in the opinion of the Superintendent of Lamps and Gas, may become so worn out, broken, or useless as to be unfit to be repaired, are to be removed from the posts and other lanterns substituted in lieu thereof by the parties of the second part without charge to the city. The lanterns for that purpose will be furnished by the parties of the first part, through the Department of Public Works, to the said parties of the second part.

11. Crossheads and Lamp-irons.—The crossheads and lamp-irons which, in the opinion of the Department of Public Works, may become broken or out of order, are to be replaced on the posts by the parties of the second part without charge to the city. The crossheads and lamp-irons for that purpose are to be furnished by the parties of the first part, through the Department of Public Works, to the said parties of the second part.

12. Street-signs.—The glass street-signs to be placed and retained in their proper places and positions in the lantern. The signs to be furnished by the Department of Public Works to the parties of the second part.

13. Cartages.—All supplies which, under this agreement, may be required to be furnished by the parties of the first part, will be so furnished, but the cartage thereof shall be done by the parties of the second part.

G. The prices fixed for the various services herein provided to be performed by the parties of the second part are as follows:

For furnishing the aforesaid illuminating material for each lamp, including the lighting, extinguishing, cleaning, repairing, reglazing, replacing cocks, tubes, burners, crossheads, lamp-irons, and lanterns thereto, for the aforesaid period of four months ending April 30, 1878, the sum of six dollars.

For each lamp-post straightened, the sum of one dollar and fifty cents.

For each column releaded, the sum of one dollar and fifty cents.

For each column refitted, the sum of three dollars and fifty cents.

For each lamp-post removed, the sum of three dollars and fifty cents.

For each lamp-post reset, the sum of ten dollars.

For each new lamp fitted up, the sum of ten dollars.

H. United States Revenue Tax.—And it is hereby agreed, by and between the parties to these presents, that the parties of the first part shall not be called upon to pay to the said parties of the second part, any amount for any tax which the Government of the United States may assess upon the illuminating material consumed by the public lamps within the district aforesaid.

I. And it is further agreed, that the said parties of the second part shall have the right to lay pipes at any time between January 1, 1878, and April 30, 1878, upon giving forty-eight hours' written notice to the Department of Public Works of their intention to break up or open any street, avenue, or public place, or part thereof, or to remove any part of the pavement thereof, for the purpose of laying or repairing the pipes to conduct the said gas. And the parties of the second part shall, whenever they shall break up or open any street, avenue, or public place, replace the earth which they may remove in so doing, before sunset of the day on which such opening shall be made (the earth to be thoroughly tamped as the same is thrown into the trench or excavation), and replace the pavement, and repave and repair the same, in such reasonable time and manner as the Department of Public Works may direct, and in as good and firm a manner as such street, avenue, or public place, or part thereof, was in before being broken up for the purpose aforesaid, and shall, from time to time, as required by the Department of Public Works, readjust and fill and finish the same as long as in the opinion of the Department of Public Works may be necessary on account of the settling of the earth or pavement caused by the opening. Also, that all such repairs as shall at any time become necessary to said pavement, by reason of laying the said pipe or conductors, shall be made and done by said parties of the second part, at their own cost and expense. Also, that no such street, avenue, or public place, or part thereof, shall be so broken up or opened, or the pavement thereof removed, or shall be again filled up or repaired, except under the direction and supervision of a competent person, to be appointed by the Department of Public Works; but the said parties of the second part shall not be called upon to pay any sum, to any party or parties, for the inspection of any pavement which they may have occasion to replace. And it is further agreed, that the said parties of the second part shall and will so conduct the manufacture and manufactories of gas, as not to create a nuisance, and that they will in all things be governed by such reasonable rules and regulations as the said Department of Public Works may from time to time establish or direct, relative to the opening of such streets, avenues, or public places, or parts thereof, and laying down the pipes and conductors, and for lighting, cleaning, and protecting the lamps and street signs aforesaid. And it is hereby expressly provided, that nothing herein contained shall be construed or deemed as granting to the said parties of the second part any sole or exclusive right or privilege, or as preventing the said parties of the first part from granting the like privileges as are hereby given to the said parties of the second part, to any other company, persons, or parties whatsoever, or as preventing any person or persons, residing in or adjacent, or near to any of the said streets, avenues, or public places, or parts thereof, from erecting, in or upon his or their own premises, any building or apparatus, to light with gas, his or their own house, store, or manufactory, or premises.

J. And it is hereby further agreed, that in case the said parties hereto of the second part shall fail or neglect to keep the covenants herein contained, or any of them, or neglect to light, repair, paint, clean or fit up the public lamps as before mentioned, or any of them, it shall be lawful for the Commissioner of Public Works to cause such work to be performed by other parties, and to deduct the expense thereof from any moneys which may be due or may become due to the parties of the second part, and to hold the parties of the second part and their sureties liable for the amount thereof which may be in excess of the prices stipulated in this agreement.

K. And it is further provided, and these presents are upon the express condition, that if the said parties of the second part, or their successors, shall not well and truly observe, perform, fulfill, and keep all and singular the covenants and conditions hereinbefore mentioned and contained, in their part and behalf to be observed, performed, fulfilled, and kept according to the true intent and meaning of these presents, then and in that case, it shall and may be lawful for the Commissioner of Public Works, on the part of the said parties of the first part, to annul and vacate this contract, and thereupon it shall become null and void.

L. And it is further agreed, that on or after the first day of each and every month from the month of February, 1878, to the month of May, 1878, both months inclusive, the parties of the second part shall furnish proof to the satisfaction of the Commissioner of Public Works that they have fully performed and fulfilled this contract in all the particulars and conditions aforesaid, during the preceding month, and particularly that they have furnished the illuminating material of the quality hereinbefore specified; upon so doing, the Commissioner shall certify the fact, and in his certificate state the amount to which the parties of the second part shall be entitled for all the duties performed by them during such preceding month, and annex thereto a requisition upon the Comptroller to pay the parties of the second part therefor the sum to which they shall be so entitled; and without such proof, to the satisfaction of the Commissioner of Public Works, he shall not make any certificate nor requisition on the Comptroller; and the parties of the second part shall also furnish proof to the satisfaction of the Comptroller that they have fully performed and fulfilled this contract in all the particulars and conditions aforesaid, and without such proof the said parties of the second part shall not be or become entitled to any payment in respect to services which were required to be done, or should have been done, in such preceding month. On the requisitions above provided being presented to the Comptroller of the City, he shall, within twenty days, pay to the parties of the second part the amount thereof in lawful money.

M. And it is hereby expressly agreed and understood by and between the parties hereto that the said parties of the first part, their successors and assigns, shall not, nor shall any Department or officer of the City of New York be precluded or estopped by any return or certificate made or given by any Engineer, Inspector or other officer, or agent, or appointee of said Department of Public Works, or

said parties of the first part, under or in pursuance of anything in this agreement contained, from at any time showing the true and correct amount and character of the work which shall have been done and materials which shall have been furnished by the said parties of the second part, or any other person or persons under this agreement.

N. And the parties hereto declare that this contract is made with reference to the proposals hereto annexed, which are to be taken as part and parcel of these presents.

In witness whereof, the said Commissioner of Public Works, in conjunction with the Mayor and Comptroller, hath hereunto set their hands and seals, on behalf of the said parties of the first part, and the said parties of the second part have also set their hands and seals, and said parties hereto have executed triplicate copies hereof, one of which is to remain with the Commissioner of Public Works, one other to be filed with the Comptroller of the City of New York, and the third to be delivered to the said parties hereto of the second part, the day and date herein first above written.

Witness:

AUGUSTUS T. DOCHARTY.

ALLAN CAMPBELL,

Commissioner of Public Works.

[SEAL.]

S. McCORMICK.

SMITH ELY, JR.,

Mayor of the City of New York.

[SEAL.]

JOHN KELLY,

Comptroller of the City of New York.

[SEAL.]

Attest:

GEORGE DOANE, Secretary.

THE NEW YORK GAS-LIGHT COMPANY,

THOMAS K. LEES, President.

[SEAL.]

EXHIBIT "G."

Time Table for Lighting and Extinguishing the Public Lamps for the Year 1878.

DATE.	BEGIN TO LIGHT.	BEGIN TO EXTINGUISH.	DATE.	BEGIN TO LIGHT.	BEGIN TO EXTINGUISH.
January 1.....	H.M. 4.45	H.M. 6.20	July 2.....	H.M. 7.45	H.M. 3.15
" 8.....	5.00	6.20	" 9.....	7.45	3.15
" 15.....	5.00	6.20	" 16.....	7.40	3.15
" 22.....	5.15	6.15	" 23.....	7.40	3.15
" 29.....	5.15	6.15	" 30.....	7.25	3.30
February 5.....	5.30	6.00	August 6.....	7.25	3.40
" 12.....	5.40	5.45	" 13.....	7.10	3.50
" 19.....	5.45	5.40	" 20.....	7.10	2.50
" 26.....	6.00	5.30	" 27.....	6.45	4.15
March 5.....	6.00	5.30	September 3.....	6.30	4.15
" 12.....	6.15	5.15	" 10.....	6.20	4.30
" 19.....	6.15	5.00	" 17.....	6.15	4.30
" 26.....	6.30	5.00	" 24.....	6.00	4.45
April 2.....	6.30	4.45	October 1.....	5.45	4.45
" 9.....	6.40	4.20	" 8.....	5.40	5.00
" 16.....	6.45	4.15	" 15.....	5.30	5.00
" 23.....	7.00	4.00	" 22.....	5.15	5.15
" 30.....	7.00	4.00	" 29.....	5.00	5.15
May 7.....	7.15	3.30	November 5.....	5.00	5.30
" 14.....	7.20	3.30	" 12.....	4.45	5.45
" 21.....	7.30	3.15	" 19.....	4.40	5.45
" 28.....	7.30	3.15	" 26.....	4.35	6.00
June 4.....	7.40	3.15	December 3.....	4.35	6.00
" 11.....	7.40	3.15	" 10.....	4.35	6.00
" 18.....	7.45	3.15	" 17.....	4.35	6.00
" 25.....	7.45	3.15	" 24.....	4.40	6.15
			" 31.....	4.40	6.20

Total hours, 3,833½.

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF LAMPS AND GAS,
NEW YORK, December 26, 1877.

The above table will show the time for lighting and extinguishing the public lamps during the year 1878, all the lamps to be lighted within one hour from the time of beginning.

ALLAN CAMPBELL,
Commissioner of Public Works.

S. McCORMICK,

Sup't of Lamps and Gas.

INSTRUCTIONS TO LAMP-LIGHTERS.

I. The lamps must be lighted and extinguished strictly in accordance with the time specified in this time-table, and all the lamps must be lighted within one hour from the time of beginning.

II. The lamps must be kept clean and in good condition; all the glass must be thoroughly cleaned at least twice in each week, and oftener if necessary. Lighters must bear in mind that with clean glass a greater brilliancy is obtained from the flame. In the winter season the snow must be brushed from the lanterns after each snowfall. Dirty and disordered lamps will be considered as evidence of a careless and incompetent lamp-lighter.

III. The glass street-signs must be kept in their proper positions. The sign bearing the name of any avenue or a main street must face the roadway of such avenue or street. One of the signs bearing the name of a cross-street must face the roadway of such street, and the other sign must be placed on the opposite side of the lantern. Be careful to observe that the name does not face the inside of the lantern.

IV. Advertising signs on the lamp-posts or lanterns, or colored or ground glass in the lantern, are a violation of a Corporation Ordinance, and must not be permitted.

V. If a lighter, on extinguishing the lamp, should find a glass broken, he must replace the same before lighting time of same day. If he should find a glass broken while lighting, he must replace the same before lighting time of the following day. If he should find the tin-work worn out or broken, he must take the lantern to his superintendent for repairs.

VI. The burners must be kept in condition to burn with a full, clear, steady flame, and not with a single or forked jet.

VII. If a lighter, when lighting, finds that a lamp will not burn, he will leave such lamp and finish his route. He must then return to the unlighted lamps and endeavor to get them in burning order. If he cannot make the lamp burn he must report the same on the following morning to the Superintendent of the Gas Company.

VIII. Lamp-lighters will not be permitted to climb the lamp-posts. The lamps must be lighted either by means of a torch or the use of a ladder.

IX. In case a lamp-post should be found broken or taken down, or requiring repairs, he must report the same at once to the Superintendent of the Gas Company, stating the correct location of the post and what repairs are required. If the post has been taken down he must report by whom and for what purpose, and date when done. No excuse will be accepted from any lamp-lighter who fails to report lamp-posts taken down or broken.

X. Lighters must not break the lamp bottoms, nor the sheet sign slots. Lamps furnished with these slots should be placed on corner lamp-posts.

XI. Ladders must not be left tied to the lamp-posts.

S. McCORMICK, Superintendent of Lamps and Gas.

Contracts entered into during the three months ending December 31, 1877.

DATE.	NATURE AND LOCATION OF WORK.	CONTRACTORS.	SURETIES.	ESTIMATED COST.
1877.	<i>Sewers.</i>			
Dec. 11	Sewer in Eleventh avenue, between Sixty-ninth and Sixty-fourth streets, and in Sixty-first street, between Tenth and Eleventh avenues.....	John H. McCabe, 89th st. & Lex'n ave.	Francis McCabe, 725 Lexington avenue W. H. McCarthy, 194 E. 82d street....	\$8,655 70
" 19	Sewer in Ninety-fourth street, between Third and Fourth avenues, and in Fourth avenue, between Ninety-third and Ninety-fourth streets....	E. Bradburn, 1241 Lexington ave.	John Ryan, 44 Prince street..... Bernard Maloney, 1376 Lexington ave..	5,053 10
				\$13,708 80

DATE.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.
1877.	<i>Regulating, Grading, etc.</i>			
Nov. 9	Regulating, grading, etc., Sixty-sixth street, from Eighth avenue to the Boulevard.....	John Mulholland, 2d avenue and 73d st.	O. T. Marshall, 145 E. 78th street ... P. Sheehy, 251 E. 83d street....	\$14,372 76
Oct. 1	Setting curb and gutter stones and flagging Seventy-sixth street, between Avenue A and East river, and between First and Second avenues.....	James Slattery, 788 Fourth avenue...	James Slattery, 207 W. 57th street... William Hullivan, 349 W. 32d street....	924 00
Dec. 15	Setting curb and gutter stones and flagging Sixty-third street, from First avenue to the East river.....	James Baird, 410 E. 58th street....	William Baird, 310 E. 57th street... Matthew Baird, 306 E. 57th street....	1,798 38
				\$17,095 14
	<i>Pavements.</i>			
Oct. 8	Paving Fourth street, from Lewis to Mangin street, with Belgian pavement.....	Charles P. Devlin, 207 E. 82d street....	Charles Jones, 203 E. 82d street.... E. C. Sheehy, 1453 Third avenue...	\$2,243 50
Nov. 7	Paving One Hundred and Twenty-first street, from First avenue to Avenue A.....	Denis McGrath, Weehawken, N. J....	Matthew Baird, 306 E. 57th street... M. B. Flynn, 527 Hudson street....	2,570 88
" 7	Paving One Hundred and Third street, from Lexington to Fourth avenue, and Lexington avenue, from One Hundred and Third to One Hundred and Fourth street....	Denis McGrath, Weehawken, N. J....	Matthew Baird, 306 E. 57th street... M. B. Flynn, 527 Hudson street....	3,228 87
" 26	Paving One Hundred and Twentieth street, from First avenue to Harlem river, with Belgian pavement.....	James Reilly, 127th st. & Broadway	William Cowen, Manhattan st. & 10th ave... Thomas H. Long, Manhattan st. & 10th ave.	5,124 00
" 31	Paving Seventy-sixth street, from Eighth avenue to Riverside Park, with granite pavement.....	Owen Gearty, 249 E. 31st street....	Philip Smith, 206 E. 51st street... S. H. McCulloch, 240 E. 32d street....	18,535 00
				\$31,702 25
	<i>Croton Water-pipe Contracts.</i>			
Oct. 29	Furnishing Department of Public Works 2,325 tons of straight cast-iron water-pipe and 175 tons of branches and special castings.....	B. G. Clarke, 52 Wall street.....	Moses Taylor, 122 Fifth avenue.... Samuel Sloan, 21 W. 17th street...	\$58,731 25
Nov. 19	Laying Croton water-mains in Seventh avenue, from Fifty-seventh street to Greenwich avenue.....	James Cunningham, 746 Lexington ave...	Robert Cunningham, 746 Lexington ave... Francis McCabe, 725 Lexington ave...	14,085 00
" 20	Laying Croton water-mains in One Hundred and Forty-third street, Boulevard, Seventy-fifth street, One Hundred and Thirty-first street, Forty-ninth street, One Hundred and Fifth street, Ninth avenue, Forty-fourth street, Eighty-eighth street, One Hundred and Forty-eighth street, and One Hundred and Fifty-eighth street.....	William Riley, 196 Elm street....	Chas. C. Dascher, 214 Elm street..... George Borstman, 309 E. 25th street....	4,859 85
				\$77,676 10
	<i>Miscellaneous Contracts.</i>			
Dec. 24	For furnishing and lighting with gas the district bounded on the north by the centre line of Grand, Sullivan, and Canal streets, from the East to the Hudson river, on the west by the Hudson river, and on the south and east by the East river, for the period of four months, commencing January 1, 1878.....	The New York Gas-light Co., by Thomas K. Lees, President, 157 Hester street....	Moses Taylor, 122 Fifth avenue.... F. W. Stevens, 2 W. 57th street....	\$19,000 00
" 24	For furnishing and lighting with gas the district bounded on the north by the centre line of Thirty-fourth street, on the east by the East river, and on the south by the centre line of Grand, Sullivan, and Canal streets, and on the west by the Hudson river, for the period of four months, commencing January 1, 1878.....	The Manhattan Gas-light Co., by Chas. Roome, President, 4 Irving place.....	Moses Taylor, 122 Fifth avenue.... Samuel Sloan, 21 W. 17th street....	40,000 00
" 22	For furnishing and lighting with gas that part of the district bounded on the north by the centre of Seventy-ninth street, on the east by the East river, on the south by the centre of Thirty-fourth street, on the west by the Hudson river, as more particularly set forth on a schedule annexed to contract, for the period of four months, commencing January 1, 1878.....	The New York Mutual Gas-light Co., by Chas. Place, 36 Union square....	John P. Kennedy, 10 E. 47th street.... Chas. Place, 136 W. 125th street..	5,300 00
" 27	For furnishing and lighting with gas that part of the district bounded on the north by the centre of Seventy-ninth street, on the east by the East river, on the south by the centre of Thirty-fourth street, on the west by the Hudson river, as shown by red lines on a map of district annexed to contract, for the period of four months, commencing January 1, 1878.....	The Metropolitan Gas-light Co., O. Zollkoffler, President, 1549 Broadway.....	D. H. McAlpin, 146 Avenue D..... O. Zollkoffler, 210 W. 46th street...	26,800 00
" 27	For furnishing and lighting with gas the district bounded on the north by Spuyten Duyvil Creek and Harlem river, on the east by Harlem river and East river, on the south by the centre of Seventy-ninth street, and on the west by Hudson river, for the period of four months, commencing January 1, 1878.....	The Harlem Gas-light Co., Burr Wakeman, President, 2084 Third avenue...	Burr Wakeman, 19 W. 36th street.... Thomas Rutter, 849 Fifth avenue....	36,000 00
" 26	For furnishing and lighting with gas such streets and places in Riverdale, Twenty-fourth Ward, as may be directed by the Commissioner of Public Works, for the period of four months, commencing January 1, 1878.....	The Yonkers Gas-light Co., of Yonkers, N. Y., by Thomas C. Cornell, President.....	Thomas C. Cornell, Yonkers, N. Y..... S. D. Babcock, 636 Fifth avenue....	900 00
" 24	For furnishing and lighting with gas the public buildings, markets, and offices in the district bounded by Grand, Sullivan, and Canal streets on the north, on the west by the Hudson river, and on the south and east by the East river, mentioned in contract, for the term of one year, commencing January 1, 1878.....	The New York Gas-light Co., by Thomas K. Lees, President, 157 Hester street....	Moses Taylor, 122 Fifth avenue.... F. W. Stevens, 2 W. 57th street....	10,750 00
" 24	For furnishing and lighting with gas the public buildings, markets, and offices in the district bounded by Thirty-fourth street on the north, on the east by the East river, on the south by Grand, Sullivan, and Canal streets, and on the west by the Hudson river, mentioned in contract, for the period of one year, commencing January 1, 1878.....	The Manhattan Gas-light Co., by Chas. Roome, President, 4 Irving place.....	Moses Taylor, 122 Fifth avenue.... Samuel Sloan, 21 W. 17th street....	7,000 00
" 22	For furnishing and lighting with gas the public buildings, markets, and offices in the district bounded by Spuyten Duyvil Creek and Harlem river on the north, on the east by Harlem and East rivers, on the south by centre of Seventy-ninth street, and on the west by the Hudson river, as mentioned in contract, for the period of one year, commencing January 1, 1878.....	The Harlem Gas-light Co., Burr Wakeman, President, 2084 Third avenue...	Burr Wakeman, 19 W. 36th street.... Robt. W. Rodman, 41 E. 19th street....	1,500 00
				\$147,250 00
Nov. 2	For furnishing red maple trees and planting of the same in One Hundred and Tenth street, from First avenue to Riverside Drive.....	Jesse Ryder, Sing Sing, N. Y.....		\$1,315 60

DATE.	NATURE AND LOCATION OF WORK.	CONTRACTORS.	SURETIES.	ESTIMATED COST.	DATE.	NATURE AND LOCATION OF WORK.	COST.	
1877.					1877.			
Nov. 22	Flagging sidewalks on the north side Fifty-sixth street, between Sixth and Seventh avenues.....	John B. Healy, 246 E. 10th street....		\$27 00	O.t. 1	Laying Croton Mains....	In Sixty-ninth street, Broadway, Boulevard, Eighty-first street, Tenth avenue and Fifty-seventh street.....	\$3,530 30
" 22	Fencing vacant lots in One Hundred and Eighteenth street, between First and Second avenues.....	John B. Healy, 246 E. 10th street....		55 50	" 4	" " " " " "	In One Hundred and Forty-fourth street, Mott and Courtland avenues.....	1,539 55
Dec. 1	Flagging eight feet wide south side Fifty-eighth street, from Broadway to Seventh avenue.....	Michael Mahony, 406 E. 52d street....		256 56	" 4	" " " " " "	In Vesey, Barclay, Park place, Murray, Warren, Reade, Duane, Thomas, Worth, Franklin, Lispenard, and White streets.....	4,011 05
" 4	Curb, gutter, and flagging west side Washington street, from Greenwich street to Little West Twelfth street, and north side of Gansevoort street, from Washington to West street....	Michael Mahony, 406 E. 52d street....		655 60	" 22	" " " " " "	In Mercer street, between Canal and Eighth streets, and in Crosby street, between Howard and Bleeker streets.....	5,334 44
" 4	Flagging full width north side of Forty-third street, between Ninth and Tenth avenues.....	Patrick Burns, 311 E. 56th street....		50 00	" 22	" " " " " "	In One Hundred and Thirty-fourth, Fifty-fourth, Ninetieth, One Hundred and Forty-fifth, and One Hundred and Forty-sixth streets, Eleventh avenue, Ninety-sixth, One Hundred and Eighth, Ninety-ninth, One Hundred and Sixth, and Seventy-fifth streets.....	3,063 07
" 10	Laying crosswalks at the northerly and southerly intersections of Lexington avenue and One Hundred and Seventeenth street.....	Thomas L. Butler, 291 Broadway.....		128 60	Dec. 1	" " " " " "	In Church street, between Fulton and Greenwich streets, and in Wooster street, between Canal and Houston streets.....	4,111 90
Oct. 24	Constructing sewer in Fifth avenue or New avenue, west of Mount Morris square, between One Hundred and Twenty-second and One Hundred and Twenty-third street.....	Lawrence Rock, 459 W. 40th street....		735 00	" 1	" " " " " "	In Fifth avenue, between Twenty-ninth street and Waverly place.....	4,634 98
" 24	Constructing sewer in One Hundred and Twenty-seventh street, between Sixth avenue and Summit, between Sixth and Seventh avenues.....	Gilbert Palmer, 49 E. 78th street....		528 25	" 1	" " " " " "	In Randall's Island, the Boulevard, Fifty-sixth, One Hundred and Third, One Hundred and Thirtieth, and One Hundred and First streets, etc.....	3,305 93
" 24	Constructing sewer in One Hundred and Twenty-seventh street, between Seventh avenue and Summit, between Sixth and Seventh avenues.....	Gilbert Palmer, 49 E. 78th street....		811 75	" 18	" " " " " "	In Washington square, Fourth street, Wooster street, and University place.....	3,118 42
" 24	Constructing sewer in Washington street, between Fulton and Vesey streets.....	Lawrence Rock, 459 W. 40th street....		390 00	Oct. 22	For furnishing and delivering to the Department of Public Works.....	2,220 tons straight cast-iron water pipes and 64 tons of branches and special castings.....	55,591 04
" 24	Constructing receiving-basin on north-west corner One Hundred and Seventy-fourth street and Avenue A.....	Lawrence Rock, 459 W. 40th street....		132 00	Nov. 7	For furnishing and delivering to Brewster's Station, Harlem R. R.....	Four 30-inch stop-cocks and gearing and four 20-inch stop-cocks and gearing.....	2,820 00
" 24	Constructing receiving-basins on west side Fifth avenue, opposite One Hundred and Eighth and One Hundred and Ninth streets.....	Lawrence Rock, 459 W. 40th street....		259 50	" 27	For furnishing and delivering to Brewster's Station, Harlem R. R.....	164 tons straight cast-iron water pipes and 25 tons of specials, and at Pipe Yard, 250 tons of straight cast-iron water pipes and 50 tons of specials.....	15,800 60
" 24	Constructing receiving-basin on southwest corner One Hundred and Twenty-seventh street and Lexington avenue.....	Lawrence Rock, 459 W. 40th street....		130 00	Dec. 19	For furnishing and delivering to the Department of Public Works.....	1,000 tons of 48-inch straight cast-iron water pipes, with the necessary branches and special castings.....	26,542 24
Nov. 17	Rebuilding sewer in Ninth avenue, between Ninety-fourth and Ninety-fifth streets, etc.....	G. Palmer, 49 E. 78th street....		770 25			Contracts awarded under Chapter 476, Laws of 1875.	
" 17	Rebuilding sewer in Ninth avenue, between Sixty-second and Sixty-third streets.....	Thomas L. Butler, 291 Broadway.....		917 50	Oct. 11	Paving.....	Franklin street, from West Broadway to Centre street, Wall street, from William to Hanover street, and Rector street, from Broadway to West street, with granite-block pavement.....	14,954 79
" 17	Constructing gully-trap in Third avenue, north of Fourteenth street, connecting with sewer.....	Gilbert Palmer, 49 E. 78th street....		120 50	" 11	" " " " " "	Ferry street, from Gold street to Peck slip, Spruce street, from Nassau to Gold street, and Nassau street, from Spruce to Wall street, with granite pavement.....	17,810 18
Dec. 10	Extension of sewer in Lexington avenue, between Sixty-second and Sixty-third streets.....	C. P. Devlin, 207 E. 82d street....		349 25	Nov. 3	" " " " " "	West Broadway, from Chambers to Canal street (including railroad tracks), and College place, from Chambers to Barclay street, with granite pavement.....	32,456 29
" 10	Repairs to sewer in Fifty-seventh street, between Fourth and Madison avenues.....	C. P. Devlin, 207 E. 82d street....		955 00	" 8	" " " " " "	Warren street, from Broadway to West street, and Murray street, from Broadway to West street, with granite pavement.....	27,175 96
" 10	Extension of sewer at the foot of East Eighty-ninth street.....	John B. Healy, 246 E. 10th street....		660 00	Dec. 1	" " " " " "	Washington street, from Liberty street to Battery place, and Pearl street, from Fulton street to Coenties slip, with Belgian pavement.....	16,692 83
" 17	Constructing open culvert between One Hundred and Fifty-third and One Hundred and Fifty-fifth street, west of Eighth avenue.....	John B. Healy, 246 E. 10th street....		997 00	" 2	" " " " " "	John street, from Broadway to Water street, and Dey street, from Broadway to West street, with granite pavement.....	19,695 59
				\$8,949 25		Total.....		\$711,034 58
RECAPITULATION.								
				4 Paving Contracts.....				\$26,589 71
				7 Sewer Contracts.....				270,948

RECAPITULATION.

2	Sewer Contracts.....	\$13,708	80
3	Regulating, Grading, etc., Contracts.....	17,095	14
5	Paving Contracts.....	31,702	23
1	Contract for Furnishing Croton Water-pipes, and a Contracts for Laying Croton Water-pipes.....	77,676	10
9	Illuminating Gas Contracts, for Streets and Public Buildings.....	147,250	00
1	Contract for Furnishing and Planting Trees.....	1,315	60
20	Contracts for Flagging, Fencing, Crosswalks, Sewers, and Receiving-basins.....	8,949	26
43	Contracts.....	\$297,697	15

Contracts Completed during the Three Months ending December 31, 1877.

DATE.	NATURE AND LOCATION OF WORK.	COST.
1877.		
Oct. 5	Paving..... Fifty-sixth street, from Madison to east side of Fourth avenue, with granite-block pavement.....	\$2,233 25
" 6	Sewer..... In Fifth avenue, west side, between Thirty-fifth and Thirty-sixth streets, from end of present sewer in Thirty-fifth street.	713
" 19	Regulating and paving.... One Hundred and Fifty-second street, between Avenue St. Nicholas and the Boulevard, with Macadam pavement.....	6,433 71
" 24	Flagging..... On the north side of Fifty-eighth street, between Eighth and Ninth avenues.....	284 53
" 27	"..... North side of One Hundred and Twentieth street, between Avenue A and First avenue.....	352 21
" 31	Fencing vacant lots..... On north side Fifth street, between Lexington and Fourth avenues.....	37 25
" 31	Sewers..... In Tenth avenue, between One Hundred and Sixteenth and Manhattan streets, Sewerage District No. 12 R.....	133,838 60
" 31	"..... In Tenth avenue, between One Hundred and Tenth and One Hundred and Fourteenth streets, Sewerage District No. 14 R.	35,214 25
Nov. 13	Outlet sewer..... In One Hundred and Forty-seventh street, Eighth avenue, and One Hundred and Forty-fifth street, from Avenue St. Nicholas to Harlem river, with branches, etc., etc.....	96,978 90
" 13	Regulating, grading, etc., and paving..... One Hundred and Seventh street, from Fifth avenue to Harlem river.....	50,317 00
" 17	Regulating, grading, etc., and paving..... Broadway, from Manhattan to One Hundred and Thirty-third street, with granite pavement.....	15,579 50
" 24	Sewer..... In Tenth avenue, between Fifty-seventh and Fifth-ninth streets.....	2,816 50
" 23	Regulating, grading, etc., Lexington avenue, from One Hundred and Second street to Harlem river.....	62,718 40
Dec. 1	Sewer..... In One Hundred and Twenty-seventh street, between Sixth avenue and Summit, west of Sixth avenue.....	507 70
" 8	Flagging..... North side Fifty-sixth street, between Sixth and Seventh avenues.....	27 90
" 8	Setting curb and gutter stones, etc..... Seventy-sixth street, between Avenue A and East river, and between First and Second avenues.....	2,129 10
" 8	Regulating, grading, etc., Ninety-third street, from the Boulevard to the Eighth avenue..	7,179 20
" 8	Paving..... Fourth street, from Lewis to Mangin street.....	2,343 10
" 11	Flagging..... South side of Seventy-ninth street, from Ninth to Tenth avenue..	700 90
" 11	Fencing vacant lots..... In One Hundred and Eighteenth street, between First and Second avenues.....	64 50
" 17	Sewer..... In One Hundred and Twenty-seventh street, between Seventh avenue and Summit, east of Seventh avenue.....	878 70
" 19	Flagging..... Eight feet wide, on south side Fifty-eighth street, from Broadway to Seventh avenue.....	192 90
" 22	Curb, gutter, and flagging Washington street, from Gansevoort to Little West Twelfth street, and north side of Gansevoort street, from Washington to West street.....	734 60
" 22	Regulating, grading, etc., Eighty-fifth street, from Avenue A to Avenue B.....	1,773 50
" 29	Flagging..... North side of Forty-third street, between Ninth and Tenth avenues.....	53 90
" 29	Receiving-basin..... On the southwest corner of One Hundred and Twenty-seventh street and Lexington avenue.....	124 10
Oct. 1	Laying Croton Mains.... In Fourth avenue, both sides, between Forty-ninth and One Hundred and Thirty-second streets.....	10,214 30
" 1	"..... In First avenue, between Sixty-ninth and Seventy-ninth streets.	4,508 80
" 1	Boxing and laying 6-inch wrought-iron pipe..... Across East river to Randall's Island.....	9,893 70

BOARD OF REVISION AND CORRECTION OF
ASSESSMENTS.

A meeting of the Board of Revision and Correction of Assessments was held at the Comptroller's office, in the New Court-house, on Thursday, February 14, 1878, at 4.05 o'clock P. M.

Present—John Kelly, Comptroller; Wm. C. Whitney, Counsel to the Corporation; John K. Hackett, Recorder.

The minutes of the meeting held February 11, 1878, were read and approved.

On motion, the taking of testimony in the matter of the assessment lists for regulating, grading, etc., and paving with Telford-macadam pavement, Avenue A, from Fifty-seventh to Eighty-sixth street : regulating, grading, etc., and superstructure of One Hundred and Sixteenth street, from Avenue A to Sixth avenue, and Seventy-second street, from Avenue A to Fifth avenue, was continued.

Mr. Stephen C. Walker, residing at Peekskill, a contractor, was examined by Messrs. Wakeman and Anderson, and also by the Board as to prices current for rock and earth excavation and filling in 1874, 1875, and 1876, and also as to comparative prices for excavating rock in sewers and in open cut.

Mr. Anderson offered in evidence from the abstract of proposals for pavements, in the Finance Department, the record of award to John A. Bouker, for paving with macadam pavement, One Hundred and Fifty-second street, between Avenue St. Nicholas and Boulevard, under proposals opened July 19, 1876.

Henry Stollmeyer, contractor, residing at 22 East Seventy-fifth street, being sworn, was examined by Mr. Wakeman, and also by the Board, as to prices for executing the work on One Hundred and Sixteenth street, during 1874 and 1875, under the various items of the same.

John D. Crimmins, contractor, residing at 823 Lexington avenue, was sworn and examined by Messrs. Anderson and Wakeman, and also by the Board, as to the character of the rock and earth-

work and to their condition, and of the prices of the various items of the improvements in Seventy-second street and Avenue A, during 1874 and 1875, and also as to the rock excavation and filling on One Hundred and Sixteenth street, and the manner of executing the works.

Mr. Crimmins was also further examined by Mr. Walter Edwards, Jr., attorney, relative to the work performed by him for Mr. James Lenox, on Seventy-second street.

Adam Neidlinger, maltster, residing at No. 406 East Forty-fifth street, was sworn and examined by Mr. Anderson, and by the Board, relative to the manner in which the laborers performed the work on Avenue A.

Robert B. Hull, lawyer, residing at No. 595 Lexington avenue, being sworn, was examined by Mr. Anderson, and by the Board, upon the same point with reference to the work on Avenue A, at Sixtieth and Sixty-first streets.

Matthew Baird, contractor, residing at No. 306 East Fifty-seventh street, who testified at the last meeting, was further examined by Mr. Wakeman as to the difference in the cost of performing the work by days' work and under contract.

John Wood, of No. 224 East One Hundred and Eighteenth street, was sworn and examined by Mr. Wakeman and by the Board as to the number of the laborers employed on the improvement of One Hundred and Sixteenth street, and the manner in which they performed their work between Avenue A and Third avenue.

James Wood, of No. 347 East One Hundred and Sixteenth street, was sworn and examined by Mr. Wakeman and by the Board, with reference to the facts in the same matter.

Henry Stollmeyer, contractor, was recalled and examined by the Board in relation to proposals for street improvements made by F. Stollmeyer, as shown in the record of abstract of proposals of the Finance Department.

Dennis Burke, residing at southwest corner of One Hundred and Sixteenth street and Third avenue, was sworn and examined by Mr. Wakeman as to the manner in which the work was performed on One Hundred and Sixteenth street, and as to curb and gutter finished by him in June, 1873. Also as to the elevation of grade at Fourth avenue.

On motion, the further hearing was postponed until Thursday, February 21, 1878, at 4 o'clock P. M.

At 5.40 o'clock p. m. the Board adjourned.

RICHARD A. STORRS,
Chief Clerk, Board of Revision and Correction of Assessments.

LAW DEPARTMENT.

The following Schedules form a report of the transactions of the office of the Counsel to the Corporation for the week ending February 23, 1878:

The Mayor, Aldermen, and Commonalty of the City of New York are defendants, unless otherwise mentioned.

SCHEDULE "A."

SUITS AND SPECIAL PROCEEDINGS INSTITUTED.

SUPREME COURT.

Thos. Norton et al., executors, etc., of Valentine Sillocks—To recover back amount of assessment for Macdougall street, paid May 9, 1873, \$120.40.
In re the petition of E. A. D. de Navarro—To vacate or reduce an assessment for Madison avenue.
In re the petition of the Consistory of the Dutch Reformed Church of Bloomingdale—To vacate or reduce various assessments.
In re the petition of Robert Grecian—To vacate an assessment for regulating, grading, etc., etc., One Hundred and Fifty-second street, from St. Nicholas avenue to Eleventh avenue.
In re petition of Isabella Garvey—To vacate same assessment.
In re petition of Belinda Gray—To vacate same assessment.
Wm. L. Cole, Jane M. Meehan, and Thos. F. Meehan—Summons served with notice, \$15,857.30.
In re the petition of James O. West—To vacate an assessment for regulating, grading, etc., etc., One Hundred and Fifty-second street, from St. Nicholas avenue to Eleventh avenue.
Charles A. Chesbrough—To recover an award on lands at One Hundred and Eighty-first street, Suspension bridge and approaches, \$16,800.
Thos. Norton et al., executors, etc., of Valentine Sillocks—To recover back amount of an assessment for paving Thirty-third street, \$126.60.
In re the petition of Elisha Ruckman—To vacate a sale made for non-payment of an assessment for Washington street trap-block pavement.
People, ex rel. Albert P. Fuller, agst. the Board of Fire Commissioners of the City of New York—Certiorari to review proceedings removing relator from his position as Supply Clerk in the Department.
People, ex rel. James Cummings, agst. the Board of Fire Commissioners of the City of New York—Certiorari to review proceedings removing relator from his position in the Department (regular clerk).
People, ex rel. Patrick H. Larkin, against the Board of Police Commissioners of the City of New York—Certiorari to review proceedings of Commissioners removing relator from his position as Sergeant in the Department.
People, ex rel. Mark Hagerty, against the Board of Police Commissioners of the City of New York—Certiorari to review proceedings of Commissioners removing relator from his position as Roundsman in the Department.
Wm. C. Palmer, Jr.—To recover back amount paid under mistake for assessment for Fifth avenue extension, \$63.33.
Trustees of Columbia College in the City of New York—To cancel taxes assessed for the year 1870, \$67.50; 1871, \$65.12; 1872, \$87.04; 1873, \$100; on the ground that the premises are used for educational purposes.
People, ex rel. Hanford Lockwood, against John Kelly, Comptroller, etc.—Application for a peremptory writ of mandamus to compel Comptroller to give relator a certificate as provided by section 16, chapter 579, Laws of 1853.

SUPERIOR COURT.

David Domroe—Damages at No. 24 Thompson street from overflow of sewer at Grand and Thompson streets, \$400.
Second District Court in the City of New York, The Mayor, etc., against Louis Namm, tenant, and Frederick Karcher and Mrs. Wagner, undertenants—Proceedings to dispossess for holding over after expiration of term.

SCHEDULE "B."

JUDGMENTS ENTERED AND ORDERS OF THE SPECIAL AND GENERAL TERMS.

Amos N. Cutting—Judgment entered in favor of plaintiff for \$145.16.
Daniel A. Matthews—Order entered denying plaintiff's motion for an injunction, with \$10 costs.
The Mayor, etc., against Joseph L. Cobb, et al.—Dispossess warrants issued; tenants removed.
do do Martin A. Cape, et al.—do do do
do do Elizabeth Schule—do do do
do do Ann McManus—do do do
do do Chas. Truman—do do do
People, ex rel. James McKone, agst. Comptroller—Judgment on remittitur entered in favor of the City for \$185.20.
People, ex rel. Isaac Lunney, agst. Allan Campbell, Commissioner, etc.—Judgment on remittitur entered in favor of the City for \$148.38.
Application of Jacob Zeiger—Order entered confirming Referee's report and that Comptroller pay \$277, the balance of the award, to petitioner after deducting assessments.
Henry Neidig—Judgment entered in favor of the City for \$119.04.
Herbert Lawrence et al.—Order entered discontinuing action, without costs.
James Murray—Order of reversal, with costs, and ordering a new trial, entered.
The Mayor, etc. (formerly the Board of Supervisors), agst. William M. Tweed—Judgment entered in favor of the City for \$1,000,027.19.
People, ex rel. Ira M. Clapp, vs. Board of Police—Order entered making judgment of the Court of Appeals the judgment of the Court below and reversing judgment and conviction and dismissal of Relator by Board of Police.
In re petition of August Belmont—Orders entered vacating General Term order of January 4 and judgment of January 26, 1878.
In re Wm. L. Skidmore et al.—Order entered vacating the assessment.
In re Chas. F. Southmayd et al.—Order entered vacating the assessment.
John B. Trainer—Order entered discontinuing action, without costs.
George Pesinger—do do do
Edwin Ma lan—do do do
Richard Castell—do do do
Louis C. Parker—do do do
People, ex rel. Catharine O'Brien—Order entered discontinuing proceedings, without costs.
People, ex rel. Wm. C. Miller—Order entered discontinuing proceedings, without costs.
Levi S. Stockwell—Judgment entered in favor of plaintiff for \$18,497.97.
Jacob F. Oakley—Order entered discontinuing action, without costs.

SCHEDULE "C."

SUITS AND SPECIAL PROCEEDINGS TRIED OR ARGUED.

People, ex rel. David V. Freeman et al.—Motion for writ of mandamus argued; decision reserved.
Levi S. Stockwell—Tried before Laremore, J., and jury. Verdict for plaintiff for \$18,376.56, by direction of the Court.
William C. Rogers—Motion for an order of reference argued; decision reserved.
New York Rendering Company—Trial begun before Van Brunt, J., and jury.
WILLIAM C. WHITNEY, Counsel to the Corporation.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION.

DAILY MEETINGS, FEBRUARY 11 TO 16, 1878.

Communications Received.

From Penitentiary—
List of prisoners received during week ending February 9, 1878. Males, 33; females, 1.
On file.
List of 58 prisoners to be discharged from February 17 to 23, 1878. Transmitted to Prison Association.
From Lunatic Asylum, Blackwell's Island—History of 6 patients received during week ending February 9, 1878. Referred to Examining Clerk.
From New York City Asylum for Insane, Ward's Island—History of 8 patients received during week ending February 9, 1878. Referred to Examining Clerk.

Resolutions.

Resolved, That the flags of this Department be placed at half mast on to-morrow, Tuesday, 12th instant, on the occasion of the funeral of the late Hon. Theodore Roosevelt. Adopted.

Appointments.

February 11. Jules Guissard, Orderly, Hart's Island Hospital
12. Patrick I. Kelly, Keeper, Penitentiary.
14. James McArdle, Orderly, Bellevue Hospital.
Robert Crowe, Orderly, Bellevue Hospital.
Mary Dolan, Nurse, Randall's Island Hospital.
15. Mary Hamilton, Nurse, Infants' Hospital.
16. Samuel A. Russell, Deputy Warden, Penitentiary.

Resignations.

13. Eveline Connors, Nurse, Randall's Island Hospital.
15. Margaret Taylor, Nurse, Infants' Hospital.
16. Martha Rodgers, Nurse, Randall's Island Hospital.

Dismissals.

11. Louis D'Aguiar, Orderly, Hart's Island Hospital.
14. D. B. Maguire, Orderly, Bellevue Hospital.
John Burns, Orderly, Bellevue Hospital.

JOSHUA PHILLIPS, Secretary.

POLICE DEPARTMENT.

The Board of Police met on the 23d day of February, 1878.
Present—Messrs. Smith, Erhardt, and Nichols, Commissioners.

Leaves of Absence Granted.

Captain Jeremiah Petty, Fourth Precinct, 1 day.
Patrolman Morris White, Eleventh Precinct, ½ day, without pay

Parades Approved.

Knights of Venceslaus, February 18. Church service.
Charter Oak Lodge, I. O. O. F., February 17. Funeral.
Lincoln Lodge, F. & A. M., February 21. Funeral.
German Oak Lodge, A. O. G. F., February 22. Funeral.
Hermanus Sons No. 2, February 22. Funeral.
Entrach Society, February 22. Funeral.
Rheinsch Sharpshooters, February 22. Funeral.
Anthony Harris Association, February 24. Funeral

Masked Balls Allowed.

Concordia Social, at Germania Assembly Rooms, February 23, 1878.
New York Bakers' Club, at Teutonia Assembly Rooms, February 23, 1878.
Humor Verein, at Grove Hill, February 25, 1878.
Arion Leidertafel, at Hohmann's Assembly Rooms, March 4, 1878.
Beethoven Society, at Beethoven Hall, March 7, 1878.
Hobel's Dancing Academy, at Beethoven Hall, February 28, 1878.
New York Moonschein Club, at Dramatic Hall, February 21, 1878.
Empress Augusta Ladies Bendoc, at Turn Hall, February 25, 1878.
Society of Science and Art, at Turn Hall, February 23, 1878.
Hungarian Liederkranz, at Walhalla Hall, February 25, 1878.
Richard Wagner Mannechor, at Walhalla Hall, March 11, 1878.
Schiller Lodge No. 4, S. of M., at Reform Hall, March 15, 1878.
Bloomingdale Friendship Bund, at Newman's Hall, March 4, 1878.
Turtle Bay Rebecka Association, at Turtle Bay Hall, March 1, 1878.
Kreutzer Quartette, at Harmony Rooms, March 4, 1878.
Germania Singing Society, at Harmony Rooms, March 5, 1878.
Bohemian Society, at Harmony Rooms, February 23, 1878.
Concordia Singing Society, at Harmony Rooms, February 25, 1878.
Progress Club, 52d street, between Broadway and Seventh avenue, February 21, 1878.
Saint Dancing Academy, 426 Eighth avenue, February 26, 1878.

Resignation Accepted.

Patrolman Daniel D. Kennedy, Eighth Precinct.
Resolved, That Charles A. Pukerson be and he is hereby appointed Patrolman (rule as to re-examination by the Surgeons waived), and assigned to the Twenty-ninth Precinct for duty.

Street Cleaning.

Resolved, That the delivery of street cleaning material to Francis Pidgeon, under resolution of January 18, last past, be discontinued from and after this date.
Resolved, That the delivery of street cleaning material to Francis McCabe, under resolution of 1st February, last past, be discontinued from and after this date.
Resolved, That the delivery of street cleaning material to W. H. Gautier & Co., under resolutions of December 5 and 18, 1877, be discontinued from and after this date.
Resolved, That the Inspector of Street Cleaning discontinue deliveries in pursuance of the above resolutions, and give notice thereof to the parties, respectively, immediately.
Adjourned.

S. C. HAWLEY, Chief Clerk.

DEPARTMENT OF DOCKS.

At a meeting of the Board of Docks, held 13th February, 1878.

Present—The full Board.

The reading of the minutes of previous meetings not approved was,

On motion, dispensed with.

A communication was received from the Health Department, requesting that the southerly side of pier at Twenty-eighth street, East river, be set aside for the uses and purposes of that Department in providing a Reception Hospital for contagious diseases; and, being read,

On motion, it was,

Resolved, That the Health Department be and is hereby respectfully informed, in reply to communication dated 8th inst., requesting to have the southerly side of pier at Twenty-eighth street, East river, set aside for the uses of that Department, that the said pier is subject to a lease until 1st May, 1878; and that this Board desires to be furnished with a diagram of the said premises exhibiting the location selected for the proposed Reception Hospital for Contagious Diseases.

A communication was received from F. W. J. Hurst, Manager of National Line of Steamships, in reference to sureties being required for the lease for Pier, new 39, North river; and, being read,

On motion, it was,

Resolved, That F. W. J. Hurst, Manager National Line of Steamships, and lessee of Pier, new 39, North river, be and he is hereby informed, in reply to his communication of 8th inst., that in view of the large outlay incurred by him in the erection of the shed covering said pier, this Department will not require him to furnish the customary sureties for the faithful performance, on his part, of the covenants and conditions of the lease for said pier.

A report was received from Superintendent Fitzpatrick, in relation to the water-front at foot of Eighty-fifth street, North river, not being available for commercial purposes at present; and, being read,

On motion, the application of the Waverley Rowing Club for permission to locate a boat-house on said premises was

Taken from the table and placed on file; and the following resolution adopted, to wit:

Resolved, That permission be and the same is hereby granted to the Waverley Rowing Club to drive piles and locate a boat-house at the foot of Eighty-fifth street, North river; said piles and boat-house to be removed when so ordered by this Board or its successor, free of expense to the city.

An application was received from John H. Starin, assignee of lease for Pier 1, East river, for permission to occupy said premises otherwise than for ferry purposes only; and, being read,

On motion, it was

Resolved, That John H. Starin, lessee, by assignment of the wharf property at the foot of Whitehall street, leased by this Department to the North Shore Staten Island Ferry Company, be and he is hereby informed that this Department has no objection to his use of said premise for transportation business other than that connected with the running of the ferry from that point provided the necessary facilities and accommodations for said ferry are not impaired or restricted.

The following communications were received, read, and,

On motion, laid on the table, to wit:

From Engineer-in-Chief—Report relative to erection of a bulkhead at southerly side of Seventy-fourth street, East river.

From New York, Alexandria, and Washington Steam Ship Co.—Relative to occupation of Pier 41, East river, for past fifteen years.

From Old Dominion Steam Ship Co.—Relative to renewal of lease of Pier, old 37, North river, and rebuilding the pier.

The following communications were received, read, and, on motion, placed on file, action being taken where necessary, as stated opposite to each, to wit:

From F. W. J. Hurst, Manager—Relative to surrender of Pier, new 43, North river, and requesting that a spring pile be driven at each side of Pier, new 39, North river. Engineer-in-Chief directed to drive two spring piles as requested.

From Morrisania Steamboat Company—Relative to spring piles being required at Pier 55, East river. Engineer-in-Chief directed to drive such spring piles as may be necessary to protect steamboat landing thereat.

From Engineer-in-Chief—

1. Report of work performed during the week ending 9th February, 1878.
2. Report on completion of bulkhead at northerly side of Seventy-fourth street, East river.
3. Reporting door of shed on Pier, new 43, North river, blown overboard on 10th instant. Engineer-in-Chief directed to make the necessary repairs to said shed.

From Treasurer—Report of receipts and disbursements for week ending 12th February, 1878. The auditing Committee presented an audit of ten bills or claims, amounting in the aggregate to the sum of \$2,067; and, being read, was,

On motion, accepted and adopted, and the Secretary directed to forward the said bills, together with proper requisitions for the amount, to the Finance Department, for payment.

Mr. William H. Christie and associates, engaged in the oyster business on the North river, appeared and were heard in relation to a renewal of the lease of the wharf property at foot of Perry street, otherwise than at auction; and,

On motion, they were informed that the subject would have consideration.

Messrs. James Wadsworth, Edward Hincken, Theodore T. Husted, Josiah M. Fiske, and David Failes, being present, protested orally against its granting of the application of the New York Central and Hudson River Railroad Company, for permission to widen the westerly side of Pier 6, East river; and,

On motion, they were informed that the views they had expressed in opposition to said improvement would be given due weight when the application therefor should be taken up for action.

On motion, it was

Resolved, That when the Board adjourns it shall adjourn to meet on the 14th instant, at 11 o'clock A. M.

On motion, the Board adjourned.

EUGENE T. LYNCH, Secretary.

HEALTH DEPARTMENT.

HEALTH DEPARTMENT OF THE CITY OF NEW YORK, }
NEW YORK, February 19, 1878. }

The Board of Health met this day.

Reports Received.

From the Sanitary Superintendent: On operations of the Sanitary Bureau; on contagious diseases; on work performed by Disinfecting Corps; on slaughter-houses; on application for permits; weekly report from Riverside Hospital; on dumping manure; on Lexington avenue, at its intersection with One Hundred and Twenty-fifth street; on condition of premises 725 Eighth avenue; on Exchange alley; on application for relief.

From the Attorney and Counsel: Weekly report.

From the Deputy Register of Records: Weekly mortality statement; weekly letter on mortality; weekly abstract of marriages, births, and still-births; weekly reports on deaths from diphtheria, scarlatina, membranous croup, and malarial and cerebro-spinal fevers, for week ending February 16, 1878; report on deaths by suicide and of persons 100 years old and over, for the year 1877; report on attendance of clerks during office hours for week ending February 16, 1878.

Communications Received.

From Board of Health of Boston, in respect to bad oysters.

From D. P. Fackler, in respect to new method of preventing accidents by street cars.

From Mrs. E. Cox, respecting order on premises at Kingsbridge.

From Jacob Lehman, for permit to keep poultry at 275 West Thirty-eighth street.

Applications for relief from orders on 10 Bond street, and 336, 338, and 340 East Twenty-ninth street.

Applications for renewal of licenses as scavengers were received from his Honor the Mayor, as follows:

Original Scavenger Company.
The New York Scavenger Company.
Charles Froman & Son.
John Schreiner.
Francis John Blass.

Communications Received from other Departments.

From the Police Department—On violations of Sanitary Code.

From the Department of Finance—Comptroller's weekly statement.

Permit Denied.

To keep fowls at 275 West Thirty-eighth street.

Seizures of Unwholesome Food.

The report upon seizures of unwholesome food at West Washington Market was received and ordered on file.

Reports referred to other Departments for the necessary action.

To the Department of Public Works—On condition of Lexington avenue, at its intersection with One Hundred and Twenty-fifth street; on condition of street sewer at 725 Eighth avenue.

Resolutions.

Resolved, That a copy of the report of Sanitary Inspector Hamilton, upon the manure dumps at the foot of East Forty-sixth street, be forwarded to the Police Department.

Resolved, That a copy of the complaint of Louis Babin against Exchange alley, be forwarded to the Police Department.

Resolved, That order on premises 138 East Fifty-ninth street be and is hereby extended until May 1.

Resolved, That leave of absence from February 12 to February 19 be and is hereby granted to Wm. W. Post.

Resolved, That the Register of Records be and is hereby authorized and directed to register the birth certificate of Nicholas Murphy, born August 14, 1877.

Resolved, That the Register of Records be and is hereby authorized and directed to make the following correction in the Birth Register: George Adolph Kiegel, born December 6, 1877, instead of Louis Reagle, the same being a clerical error.

Sanitary Bureau.

The following is a record of the work performed in the Sanitary Bureau for the week ending February 16, 1878. The total number of inspections made by the Sanitary and Assistant Sanitary Inspectors was 1,715, as follows, viz.:

3 public buildings, 825 tenement-houses, 130 private dwellings, 68 other dwellings, 9 manufactories and workshops, 14 stores and warehouses, 32 stables, 41 slaughter-houses, 1 lard-rendering establishment, 1 bone house, 1 dyeing establishment, 4 fat-rendering establishments, 4 manure dumps, 1 public sewer, 3 garbage dumps, 17 sunken and vacant lots, 40 yards, courts, and areas, 85 cellars and basements, 223 waste-pipes and drains, 124 privies and water-closets, 4 streets, gutters, and sidewalks, 2 dangerous stairways, 2 smoky chimneys, 5 cesspools, 1 piggery, 1 smoke-house, 11 other nuisances, together with 62 visits of the Sanitary Inspectors to cases of contagious diseases.

The number of reports thereon received from the Inspectors was 594.

During the past week 111 complaints were received from citizens and referred to the Sanitary Inspectors for investigation and report.

Permits were issued to the consignees of 42 vessels to discharge cargoes, on vouchers from the Health Officer of the Port.

38 permits were granted scavengers to empty, clean, and disinfect privy-sinks.

The Disinfecting Corps have visited 43 premises where contagious diseases were found, and have disinfected and fumigated 40 houses, 40 privy-sinks, together with clothing, bedding, etc.

The following is a comparative statement of cases of contagious diseases reported at this Bureau for the two weeks ending February 16, 1878.

Week Ending	Typhus Fever.	Typhoid Fever.	Scarlet Fever.	Cerebro-Spinal Meningitis.	Measles.	Diphtheria.	Small-pox.
February 9.....	0	11	80	6	9	73	0
February 16.....	0	4	86	4	171	84	0

During the week ending February 16, 1878, there were issued from this Bureau 533 burial permits for city deaths, 15 for bodies in transitu, and 54 for the interment of still-born infants.

There were recorded 533 deaths, 105 marriages, 467 births, 54 still-births, 15 applications for transit permits, and 57 returns from coroners. There were 30 searches of the registers of births, marriages, and deaths, and 6 transcripts of birth record, 4 of marriage, and 20 of death were issued from this Bureau.

By order of the Board.

EMMONS CLARK, Secretary.

HEALTH DEPARTMENT OF THE CITY OF NEW YORK, }
BUREAU OF VITAL STATISTICS, February 19, 1878. }

W. DE F. DAY, M. D., Sanitary Superintendent and Register:

SIR—During the week ending Saturday, February 16, 1878, 533 deaths were reported to have occurred in this city. This is an increase of 62 as compared with the preceding week, and 123 more than were reported during the corresponding week of 1877.

The actual number of deaths for the week ending February 9 was 517, which is 18 below the average mortality for the corresponding weeks of the past five years; and represents an annual death-rate of 24.76 per 1,000 of the population, which is estimated at 1,085,440.

The most prominent fatal diseases during the week were phthisis pulmonalis, 100; pneumonia, 64; diseases of the brain and nervous system, 40; diphtheria, 32; scarlatina, 27; bronchitis, 25; diseases of the heart, 22; hydrocephalus and tubercular meningitis, 20; showing a total of 330 deaths, or 61.01 per cent. of the total mortality for the week from these eight diseases.

The diseases which showed an increase during the past compared with the preceding week are as follows: scarlatina, 11; diphtheria, 12; malarial fevers, 3; diarrheal diseases, 6; inanition, 2; alcoholism, 4; cancer, 2; phthisis pulmonalis, 21; pneumonia, 3; diseases of the heart, 2; aneurism, 3; hydrocephalus and tubercular meningitis, 8; enteritis, gastritis, and peritonitis, 4; and premature and preterm births, 1; and the following diseases decreased: measles, 1; croup, 1; whooping cough, 5; erysipelas, 3; typhoid fever, 3; cerebro-spinal fever, 4; bronchitis, 2; marasmus and scrofula, 2; diseases of the brain and nervous system, 4; cirrhosis and hepatitis, 3; and Bright's disease and nephritis, 2.

Of the total number of deaths reported for the week, 81 were in institutions, 285 in tenement-houses, 152 in houses containing three families or less, 8 in hotels and boarding-houses, 2 in rivers, streets, boats, etc.; 8 were on the basement floor, 117 on the first, 144 on the second, 113 on the third, 49 on the fourth, 14 on the fifth, 2 on the top floor; 529 were stated to be residents of New York City and 4 non-residents, 70 were stated to be single, 133 married, 54 widowed, and the condition of 276 was not stated, these were children who had not attained a marriageable age.

The disposition of 526 deaths and still-births, or 89.60 per cent. of the total number reported, was in the following 14 cemeteries: Bayside (Jewish), 8; Calvary (Roman Catholic), 217; City pauper burial-ground (undenominational), 66; Greenwood (undenominational), 52; Lutheran (undenominational), 90; Cypress Hills (undenominational), 21; Evergreen (undenominational), 25; Woodlawn (undenominational), 13; St. Michael's (Protestant Episcopal), 8; Union (Methodist Protestant), 3; Holy Cross (Roman Catholic), 10; Machpelah, L. I. (Jewish), 5; St. Raymond's (Roman Catholic), 1; Washington (undenominational), 7.

The distribution of deaths for the week ending February 9, 1878, was in the following wards, viz.: First, 11; Second, 1; Third, 1; Fourth, 12; Fifth, 12; Sixth, 9; Seventh, 23; Eighth, 19; Ninth, 27; Tenth, 15; Eleventh, 45; Twelfth, 22; Thirteenth, 12; Fourteenth, 12; Fifteenth, 22; Sixteenth, 18; Seventeenth, 41; Eighteenth, 29; Nineteenth, 80; Twentieth, 37; Twenty-first, Twenty-second, 39; Twenty-third, 9; Twenty-fourth, 3.

The mean temperature for the week ending February 16, 1878, was 30.0 degrees Fahr., the mean reading of the barometer was 29.785, the mean humidity was 84, saturation being 100, the number of miles traveled by the wind was 1079, and the total amount of rain-fall was .44 inch depth of water, as reported by D. Draper, Director of the New York Meteorological Observatory, Central Park.

The annual death-rate per 1,000 persons living, of the estimated or enumerated population, according to the most recent weekly returns of Philadelphia, was 19.13; Brooklyn, 16.76; St. Louis, 8.42; Chicago, 15.24; Baltimore, 19.77; Boston, 16.97; New Orleans, 26; Charleston, 18.06; Dayton, 9.83; Erie, 18.06; Lowell, 18.70; Worcester, 15.05; Cambridge, 19.42; Fall River, 18.13; Lynn, 30.02; Springfield, 13.24. Monthly returns—San Francisco, 18.28; Rochester, 14.25; Lansing, 11.05; Wilmington, Del., 18.34. Foreign cities, weekly returns—London, 24.8; Liverpool, 28.3; Birmingham, 26; Manchester, 29.6; Glasgow, 24.6; Edinburgh, 27.4; Dundee, 25.7; Dublin, 32.6; Belfast, 33; Cork, 38; Buda-Pesth, 39.1; Paris, 27.5; Rome, 20.09; Turin, 28.6; Berlin, 24.3; Munich, 26; Breslau, 18.7; Vienna, 29.2; Trieste, 55.4; Copenhagen, 22.5; Stockholm, 26.2; Christiania, 16.8; Amsterdam, 27.6; Rotterdam, 32.5; The Hague, 26.5; Calcutta, 44.8; Madras, 83.3; Warsaw, 38.76; St. Petersburg, 52.95; monthly returns—Valparaiso, 47.0.

Respectfully submitted,

JOHN T. NAGLE, M. D.

Deputy Register of Records.

APPROVED PAPERS.

Resolved, That permission be and the same is hereby given to Cornelius Ford to erect an ornamental sign in front of No. 453 Seventh avenue, the work to be done at his own expense, under the direction of the Commissioner of Public Works; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, February 12, 1878.

Approved by the Mayor, February 19, 1878.

Resolved, That permission be and is hereby given to Louis Ahrens to retain the posts now in front of his place of business, No. 695 Third avenue, used by him for signs, until otherwise ordered by the Common Council.

Adopted by the Board of Aldermen, February 12, 1878.

Approved by the Mayor, February 19, 1878.

Resolved, That the following-named persons be and they are hereby appointed Commissioners of Deeds in and for the City and County of New York, in place, respectively, of the persons whose names appear opposite, whose terms of office have expired:

Carson G. Archibald, in place of.....	Carson G. Archibald.
Philip Benjamin, ".....	Philip Benjamin.
Wm. H. Salter, ".....	James M. Case.
Samuel Goldsticker, ".....	John Kerr.
John E. Hartley, ".....	Thomas McGrath.
Dewitt C. Judah, ".....	Thomas Reilly.
Robert C. Bolton, ".....	Boltis M. Segee.

Adopted by the Board of Aldermen, February 12, 1878.

Approved by the Mayor, February 19, 1878.

Resolved, That permission be and the same is hereby given to H. Freeman to place and keep a barber's pole in front of his place of business, No. 230 Seventh street, the work to be done at his own expense; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, February 12, 1878.

Approved by the Mayor, February 19, 1878.

Resolved, That permission be and the same is hereby given to George Buess to occupy the sidewalk in front of his place of business, No. 107 Rivington street, temporarily and without interference with the public travel; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, February 12, 1878.

Approved by the Mayor, January 19, 1878.

Resolved, That permission be and the same is hereby given to Ed. Freudenburg to retain the meat-rack now in front of his place of business, No. 183 Rivington street, provided the hooks be not less than seven feet above the sidewalk; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, February 12, 1878.

Approved by the Mayor, February 21, 1878.

Resolved, That permission be and the same is hereby given to Rohe Brothers to lay a four-inch cast-iron pipe from a point on the north side of Thirty-sixth street, distant 375 feet east of Eleventh avenue, in front of their packing establishment, through Thirty-sixth street to the Eleventh avenue, thence through the Eleventh avenue to Thirty-fifth street, and thence through Thirty-fifth street to the North river, for the purpose of obtaining a supply of water to be used for the extinguishment of fires, the supply of Croton water in the neighborhood being inadequate; the work to be done at their own expense and under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, February 19, 1878.

Approved by the Mayor, February 21, 1878.

COMMON COUNCIL.

Names, Residences, and Places of Business of the Members of the Board of Aldermen, 1878.

NAMES.	RESIDENCE.	PLACE OF BUSINESS.
William Bennett...	18 Clarkson st.	271 Bowery.
Bernard Biglin...	231 E. 30th st.	
Thomas Carroll...	156 E. 54th st.	156 E. 54th st.
Ferd. Ehrhart...	139 E. Houston st.	137 E. Houston st.
Robert C. Foster...	214 E. 19th st.	137 E. Houston st.
William H. Gedney...	67 Horatio st.	143 W. 40th st.
John W. Guntzer...	83 Second st.	83 Second st.
George Hall...	54 Eldridge st.	51 Bowery.
John W. Jacobus...	16 Morton st.	Cartman.
Patrick Keenan...	610 E. 12th st.	216 Avenue B.
Terence Kiernan...	317 E. 83d st.	305 Fifth st.
Samuel A. Lewis...	314 W. 14th st.	
John J. Morris...	117 W. 21st st.	50 University pl.
Henry C. Perley...	204 E. 62d st.	4 Murray st.
Lewis J. Phillips...	24 E. 74th st.	6 Pine st.
Joseph C. Pinckney...	27 Stuyvesant st.	27 Stuyvesant st.
Bryan Reilly...	73 Monroe st.	73 Monroe st.
William R. Roberts...	Metropolitan Hotel	
William Sauer...	55 E. 20th st.	55 E. 20th st.
Thomas Sheils...	55 Pike st.	71 E. Broadway.
James J. Slevin...	131 Mott st.	25 Spring st.
Louis C. Waehner...	534 Fifth st.	13 Chambers st.

WILLIAM R. ROBERTS, President.
FRANCIS J. TWOMEY, Clerk.

OFFICIAL DIRECTORY.

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

EXECUTIVE DEPARTMENT

Mayor's Office, No. 6, City Hall, 10 A. M. to 3 P. M.
Mayor's Marshal, No. 7, City Hall, 10 A. M. to 3 P. M.
Permit Bureau, No. 1, City Hall, 10 A. M. to 3 P. M.
License Bureau, No. 1, City Hall, 10 A. M. to 3 P. M.

LEGISLATIVE DEPARTMENT.

Board of Aldermen and Supervisors, No. 9, City Hall, office hours from 10 A. M. to 4 P. M.
Clerk of the Common Council and of Board of Supervisors, No. 8, City Hall, 10 A. M. to 4 P. M.

FINANCE DEPARTMENT.

NEW COUNTY COURT-HOUSE, OFFICE HOURS 9 A. M. to 4 P. M.
Comptroller's Office, second floor, rooms 19 and 20.
1. Bureau for the collection of the revenue accruing from rents and interest on bonds and mortgages, and revenue arising from the use or sale of property belonging to or managed by the City, first floor, room 6.
2. Bureau for the Collection of Taxes; Brown stone building, City Hall Park.
3. Bureau for the Collection of Arrears of Taxes and Assessments and Water Rents, first floor, room 5.
4. Auditing Bureau, second floor, west end, room 19.
5. Bureau of Licenses, first floor, room 6.
6. Bureau of Markets, first floor, room 6.
7. Bureau for the reception of all moneys paid into the Treasury in the City, and for the payment of money on warrants drawn by the Comptroller and countersigned by the Mayor, at the Office of Chamberlain and County Treasurer, second floor, room 18.
8. Bureau for the Collection of Assessments, second floor, room 16.

LAW DEPARTMENT.

Counsel to the Corporation, Staats Zeitung Building, third floor, 9 A. M. to 5 P. M.
Public Administrator, 115 and 117, Nassau street, 10 A. M. to 4 P. M.
Corporation Attorney, 49 Beekman street, 8½ A. M. to 4½ P. M.
Attorney for the Collection of Arrears of Personal Taxes, No. 51 Chambers street, second floor.
Attorney to the Department of Buildings, 2 Fourth avenue, 9 A. M. to 5 P. M.

POLICE DEPARTMENT.

NO. 300 MULBERRY STREET, ALWAYS OPEN.
Commissioners' Office, second floor
Superintendent's Office, first floor.
Inspectors' Office, first floor.
Chief Clerk's Office, second floor, 8 A. M. to 5 P. M.
Property Clerk, first floor (rear)
Bureau of Street Cleaning, Avenue C, from Sixteenth to Seventeenth street, 8 A. M. to 5 P. M.
Bureau of Elections, second floor (rear), 8 A. M. to 5 P. M.

DEPARTMENT OF PUBLIC WORKS.

CITY HALL, 9 A. M. to 4 P. M.
Commissioner's Office, No. 19.
Chief Clerk's Office, No. 20.
Contract Clerk's Office, No. 21.
Engineer in charge of Sewers, No. 21.
Boulevards and Avenues, No. 184.
Bureau of Repairs and Supplies, No. 18.
Lamps and Gas, No. 13.
Incumbrances, No. 13.
Street Improvements, No. 11.
Chief Engineer Croton Aqueduct, No. 11½.
Water Register, No. 10.
Water Purveyor, No. 4.
Streets and Roads, No. 13.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION.

Commissioners' Office, No. 66 Third avenue, 8 A. M. to 5 P. M.
Out Door Poor Department, No. 66 Third avenue, always open, entrance on Eleventh street.
Reception Hospital, Ninety-ninth street and Tenth avenue, always open.
Bellevue Hospital, foot of Twenty-sixth street, East river, always open.

FIRE DEPARTMENT.

NOS. 153, 155 AND 157 MERCER ST., 9 A. M. to 4 P. M.
Commissioners' Office.
Inspectors of Combustibles.
Fire Marshal.

HEALTH DEPARTMENT

NO. 301 MOTT STREET.
Commissioners' Office, second floor, 9 A. M. to 4 P. M.
Attorney's Office, third floor, 9 A. M. to 4 P. M.
Sanitary Superintendent, always open, third floor.
Register of Records, third floor, for granting burial permits, on all days of the week, except Sunday, from 7 A. M. to 6 P. M., and on Sundays, from 8 A. M. to 5 P. M.

DEPARTMENT OF PUBLIC PARKS.

Commissioners' Office, 36 Union Square, 9 A. M. to 5 P. M.
Surveyor's Bureau, 19 Chatham street, 9 A. M. to 4 P. M.
Board of Assessors.

DEPARTMENT OF DOCKS.

Commissioners' Office, 117 and 119 Duane street, A. M. to 4 P. M.

DEPARTMENT OF TAXES AND ASSESSMENTS

Commissioners' Office, Brown-stone building, City Hall Park, 9 A. M. to 4 P. M. On Saturday, 9 A. M. to 3 P. M.

DEPARTMENT OF BUILDINGS.

Superintendent's Office, 2 Fourth avenue, 9 A. M.

BOARD OF EXCISE.

Commissioners' Office, first floor, 299 Mulberry street, 6 A. M. to 4 P. M.

BOARD OF EDUCATION.

CORNER GRAND AND ELM STREETS
Office of the Board, 9 A. M. to 5 P. M.
Superintendent of Schools, 9 A. M. to 5 P. M.

COMMISSIONERS OF ACCOUNTS.

Commissioners' Office, 27 Chambers street, second floor, front office.

COMMISSIONERS OF THE COUNTY COURT-HOUSE.

Office, Room 28, third floor, northwest corner County Court-house.

THE CITY RECORD.

Office, No. 2 City Hall, northwest corner basement, 8 A. M. to 6 P. M.

MISCELLANEOUS OFFICES.

HOURS 9 A. M. to 4 P. M.
Coroners' Office, 40 East Houston street, second floor.
Sheriff's Office, first floor, southwest corner of New County Court-house, rooms 3 and 4.
County Clerk's Office, first floor, northeast corner of New County Court-house, rooms 7 and 8.
Surrogate's Office, first floor, southeast corner of New County Court-house, room 1.
Surrogate's Court, first floor, southeast corner of New County Court-house, room 2.
Register's Office, Hall of Records, City Hall Park.
District Attorney's Office, second floor, Brown-stone building, City Hall Park, 9 A. M. to 5 P. M.

COMMISSIONER OF JURORS.

Commissioner's Office, room 17, second floor, New County Court-house, 9 A. M. to 4 P. M.

JURORS.

NOTICE

IN RELATION TO JURORS FOR STATE COURTS

OFFICE OF THE COMMISSIONER OF JURORS,
NEW COUNTY COURT-HOUSE,
NEW YORK, June 1, 1877.

APPLICATIONS FOR EXEMPTIONS WILL BE heard here, from 9 to 4 daily, from all persons hitherto liable or recently serving who have become exempt, and all needed information will be given.

Those who have not answered as to their liability, or proved permanent exemption, will receive a "jury enrollment notice," requiring them to appear before me this year. Whether liable or not, such notices must be answered (in person, if possible, and at this office only) under severe penalties. If exempt, the party must bring proof of exemption; if liable, he must also answer in person, giving full and correct name, residence, etc., etc. No attention paid to letters.

Persons "enrolled" as liable must serve when called or pay their fines. No mere excuse will be allowed or interference permitted. The fines, received from those who, for business or other reasons, are unable to serve at the time selected, pay the expenses of this office, and if unpaid will be entered as judgments upon the property of the delinquents.

All good citizens will aid the course of justice, and secure reliable and respectable juries, and equalize their duty by serving promptly when summoned, allowing their clerks or subordinates to serve, reporting to me any attempt at bribery or evasion, and suggesting names for enrollment. Persons between sixty and seventy years of age, summer absentees, persons temporarily ill, and United States and District Court jurors are not exempt.

Every man must attend to his own notice. It is a misdemeanor to give any jury paper to another to answer. It is also punishable by fine or imprisonment to give or receive any present or bribe, directly or indirectly, in relation to a jury service, or to withhold any paper or make any false statement, and every case will be fully prosecuted.

THOMAS DUNLAP, Commissioner,
County Court-house (Chambers street entrance)

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION

DEPARTMENT OF
PUBLIC CHARITIES AND CORRECTION,
CORNER OF THIRD AVENUE AND ELEVENTH ST.,
NEW YORK, February 21, 1878.

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

At Charity Hospital, Blackwell's Island—James Welsh; aged 23 years; 5 feet 6 inches high; light hair; gray eyes. Had on when admitted, blue jacket and vest, gray pants, check jumper, cotton flannel shirt, cloth cap. Nothing known of his friends or relatives.

By Order,

JOSHUA PHILLIPS,
Secretary.

DEPARTMENT OF
PUBLIC CHARITIES AND CORRECTION,
CORNER OF THIRD AVENUE AND ELEVENTH ST.,
NEW YORK, February 21, 1878.

PROPOSALS FOR 2,000 TONS WHITE ASH STOVE COAL FOR THE OUT-DOOR POOR.

PROPOSALS, SEALED AND INDORSED AS above, will be received by the Commissioners of Public Charities and Correction, at their office, until 9 o'clock A. M., of Friday, March 8, 1878, at which time they will be publicly opened and read, by the head of said Department, for 2,000 tons White Ash Stove Coal, of the best quality; to be delivered in cargoes alongside such piers on the east and west side of the city, and at such times as the Commissioners may direct. Each ton to consist of 2,240 pounds.

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

No proposal will be considered unless accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded under that proposal, they will, on its being so awarded, become bound as sureties in the estimated amount of fifty per cent. for its faithful performance, which consent must be verified by the justification of each of the persons signing the same for double the amount of surety required. The sufficiency of such security to be approved by the Comptroller.

The Department of Public Charities and Correction reserve the right to decline any and all proposals if deemed to be for the public interest, and to accept an offer for the whole bid or for any single article included in the proposal, and no proposal will be accepted from, or a contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is defaulter, as security or otherwise, upon any obligation to the Corporation.

Blank forms of proposals and specifications, which are to be strictly complied with, can be obtained on application at the office of the Department, and all information furnished.

THOMAS S. BRENNAN,
ISAAC H. BAILEY,
TOWNSEND COX,
Commissioners.

DEPARTMENT OF
PUBLIC CHARITIES AND CORRECTION,
CORNER OF THIRD AVENUE AND ELEVENTH ST.,
NEW YORK, February 21, 1878.

PROPOSALS FOR 3,000 BARRELS OF FLOUR.

PROPOSALS, SEALED AND INDORSED AS above, will be received by the Commissioners of Public Charities and Correction, at their office, until 9 o'clock A. M., of Friday, March 8, 1878, at which time they will be publicly opened and read by the head of said Department, for furnishing and delivering at the Bakehouse, Blackwell's Island, free of all expense to the Department—

3,000 barrels of good extra Wheat Flour, to be equal in quality to samples to be seen at this office (empty barrels to be returned and deducted in proposals from the price of flour), to be delivered in quantities as required, free of all expense to the Department.

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

No proposal will be considered unless accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded under that proposal, they will, on its being so awarded, become bound as sureties in the estimated amount of fifty per cent. for its faithful performance, which consent must be verified by the justification of each of the persons signing the same for double the amount of surety required. The sufficiency of such security to be approved by the Comptroller.

The Department of Public Charities and Correction reserve the right to decline any and all proposals if deemed to be for the public interest, and to accept an offer for the whole bid or for any single article included in the proposal, and no proposal will be accepted from, or a contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is defaulter, as security or otherwise, upon any obligation to the Corporation.

Blank forms of proposals and specifications, which are to be strictly complied with, can be obtained on application at the office of the Department, and all information furnished.

THOMAS S. BRENNAN,
ISAAC H. BAILEY,
TOWNSEND COX,
Commissioners.

DEPARTMENT OF
PUBLIC CHARITIES AND CORRECTION,
CORNER OF THIRD AVENUE AND ELEVENTH ST.,
NEW YORK, February 21, 1878.

PROPOSALS FOR GROCERIES, HAY, ETC.

PROPOSALS, SEALED AND INDORSED AS above, will be received by the Commissioners of Public Charities and Correction, at their office, until 9 o'clock A. M., of Friday, March 8, 1878, at which time they will be publicly opened and read by the head of said Department, for furnishing and delivering at the foot of East Twenty-sixth street, free of all expense to the Department—

5,000 lbs. good sweet Dairy Table Butter; to be delivered in quantities as required.

1,000 bbls. good sound Irish Potatoes, to weigh 168 lbs. to the barrel, net; to be delivered at Store-house dock, Blackwell's Island.

100 bbls. Onions.

100 bales Best Timothy Hay; to be delivered in quantities as required.

250 doz. Men's Straw Hats.

200 boxes best quality I. C., 14 x 20 Charcoal Roofing Tin.

6 doz. Wash Boards.

100 Pick Handles.

100 Sledge Handles.

100 Striking Hammer Handles.

100 Hand Hammer Handles.

5 bbls. Raw Linseed Oil.

5 bbls. Boiled Linseed Oil.

3 bbls. Spirits Turpentine.

The quality of the goods furnished must conform in every respect to the samples of the above to be seen at this office.

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

No proposal will be considered unless accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded under that proposal, they will, on its being so awarded, become bound as sureties in the estimated amount of fifty per cent. for its faithful performance, which consent must be verified by the justification of each of the persons signing the same for double the amount of surety required. The sufficiency of such security to be approved by the Comptroller.

The Department of Public Charities and Correction reserve the right to decline any and all proposals if deemed to be for the public interest, and to accept an offer for the whole bid or for any single article included in the proposal, and no proposal will be accepted from, or a contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is defaulter, as security or otherwise, upon any obligation to the Corporation.

Blank forms of proposals and specifications, which are to be strictly complied with, can be obtained on application at the office of the Department, and all information furnished.

THOMAS S. BRENNAN,
ISAAC H. BAILEY,
TOWNSEND COX,
Commissioners.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION.

DEPARTMENT OF
PUBLIC CHARITIES AND CORRECTION,
CORNER OF THIRD AVENUE AND ELEVENTH ST.,
NEW YORK, February 21, 1878.

PROPOSALS FOR CARTING AND HOIST-2,000 TONS OF WHITE ASH STOVE COAL FOR THE OUT-DOOR POOR.

PROPOSALS, SEALED AND INDORSED AS above, will be received by the Commissioners of Public Charities and Correction, at their office, until 9 o'clock A. M., of Friday, March 8, 1878, at which time they will be publicly opened and read by the head of said Department, for carting and hoisting and delivering 2,000 tons White Ash Coal (each ton to consist of 2,240 pounds) in such quantities and in such parts of the city as the Commissioners may direct.

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

No proposal will be considered unless accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded under that proposal, they will, on its being so awarded, become bound as sureties in the estimated amount of fifty per cent. for its faithful performance, which consent must be verified by the justification of each of the persons signing the same for double the amount of surety required. The sufficiency of such security to be approved by the Comptroller.

The Department of Public Charities and Correction reserve the right to decline any and all proposals if deemed to be for the public interest, and to accept an offer for the whole bid or for any single article included in the proposal, and no proposal will be accepted from, or a contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is defaulter, as security or otherwise, upon any obligation to the Corporation.

Blank forms of proposals and specifications, which are to be strictly complied with, can be obtained on application at the office of the Department, and all information furnished.

THOMAS S. BRENNAN,
ISAAC H. BAILEY,
TOWNSEND COX,
Commissioners.

DEPARTMENT OF
PUBLIC CHARITIES AND CORRECTION,
CORNER OF THIRD AVENUE AND ELEVENTH ST.,
NEW YORK, February 19, 1878.

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

At Charity Hospital, Blackwell's Island—Louis Offroy; aged 35 years; 5 feet 10 inches high; dark hair; gray eyes. Had on when admitted, blue coat and vest, gray pants, white shirt, gaiters. Nothing known of his friends or relatives.

At Hart's Island Hospital—Elizabeth Schepp; aged 70 years; 5 feet 6 inches high; blue eyes; gray hair. Had on when admitted, gray shawl, lilac dress, white skirt. Nothing known of her friends or relatives.

By Order,

JOSHUA PHILLIPS,
Secretary.

SUPREME COURT.

In the matter of the application of the Department of Public Works for and in behalf of the Mayor, Aldermen, and Commonality of the City of New York, relative to the opening of One Hundred and Twenty-seventh street from the northeasterly line of Lawrence street, parallel with One Hundred and Twenty-sixth street, to the westerly side of a certain road or avenue in the City of New York, closed by act of the Legislature, chapter 290, section 10, passed April 5, 1871; as said One Hundred and Twenty-seventh street appears upon a map made by the Commissioners of the Central Park and filed in the office of the Register of the City and County of New York, on October 23, 1867.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to the owner or owners, occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to Elliot F. Shepard, Esq., our Chairman, at the office of the Commissioners, No. 154 Nassau street (Room No. 22), in the said city, on or before the thirtieth day of March, 1878, and that we, the said Commissioners, will hear parties so objecting within ten week-days next after the said thirtieth day of March, 1878, and for that purpose will be in attendance at our said office on each of said ten days, at 3 o'clock in the afternoon.

Second—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates, and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the fourth day of April, 1878.

Third—That the limits embraced by the assessment aforesaid are as follow, to wit: All those lots, pieces, or parcels of land situate, lying, and being in the City of New York, and bounded and described as follows: Beginning at a point formed by the intersection of the northerly line of One Hundred and Twenty-seventh street with the northeasterly line of Lawrence street, running thence northerly and at right angles to said One Hundred and Twenty-seventh street 100 feet; thence easterly and parallel with One Hundred and Twenty-seventh street 619 feet and 8½ inches to what was formerly the easterly line of a certain new avenue closed by an act of the Legislature, passed April 5th, 1871 (Laws of 1871, chapter 290); thence in a southerly direction 281 feet and 7 inches to a point; thence westerly and parallel to One Hundred and Twenty-seventh street 408 feet and 10 inches to the northeasterly line of Lawrence street; thence northerly westerly along the northeasterly line of Lawrence street 217 feet and 6 inches, be the same more or less, to the corner formed by the intersection of the northeasterly line of Lawrence street with the southerly line of One Hundred and Twenty-seventh street; thence easterly along the southerly line of One Hundred and Twenty-seventh street 493 feet and ¾ of an inch to the westerly line of said new avenue closed by an act of the Legislature passed April 5, 1871, as aforesaid; thence northerly along the westerly line of said new avenue, closed as aforesaid, 63 feet and 8½ inches to the northerly line of One Hundred and Twenty-seventh street; thence westerly along the northerly line of One Hundred and Twenty-seventh street 585 feet and 7¾ inches to the point or place of beginning.

Also all those other certain lots, pieces or parcels of land bounded and described as follows: Beginning at a point on the southwesterly side of Lawrence street, distant 206 feet and 3 inches from a point formed by the intersection of the northwesterly line of Lawrence street with the easterly side of the Tenth avenue; running thence northeasterly along the southwesterly line of Lawrence street, 185 feet 3 inches to a point; thence westerly and parallel to One Hundred and Twenty-seventh street, 164 feet and 4 inches to a point; thence northerly and at right angles to said One Hundred and Twenty-seventh street, 85 feet and 4 inches to the point or place of beginning.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held in the New Court-house, at the City Hall, in the City of New York, on the twelfth day of April, 1878, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, February 19, 1878.

ELLIOT F. SHEPARD,
NEVIN W. BUTLER,
LOUIS MESIER,
Commissioners.

THE CITY RECORD.

COPIES OF THE CITY RECORD CAN BE obtained at No. 2 City Hall (northwest corner basement). Price three cents each.

FINANCE DEPARTMENT.

DEPARTMENT OF FINANCE,
BUREAU FOR THE COLLECTION OF ASSESSMENTS,
NO. 16 NEW COURT-HOUSE, CITY HALL PARK,
NEW YORK, January 23, 1878.

NOTICE TO PROPERTY-HOLDERS.

PROPERTY-HOLDERS ARE HEREBY NOTIFIED that the following assessment lists were received this day, in this Bureau, for collection:

CONFIRMED AND ENTERED JANUARY 17, 1878.

131st street, regulating, grading, etc., from 6th to 8th avenue.

Boston avenue (23d Ward), grading, etc., from 3d avenue to 16th street.

121st street, paving, from 3d avenue to Harlem river.

118th street, paving, from 3d avenue to Harlem river.

110th street, paving, from Avenue A to Harlem river.

50th street, fencing north side, between Lexington and 4th avenues.

Eastern Boulevard (Avenue B), regulating, grading, etc., from 79th to 86th street.

All payments made on the above assessments on or before March 25, 1878, will be exempt (according to law), from interest. After that date interest will be charged at the rate of seven (7) per cent. from the date of confirmation.

The Collector's office is open daily from 9

DEPARTMENT OF FINANCE,
BUREAU FOR THE COLLECTION OF ASSESSMENTS,
No. 16 NEW COURT-HOUSE, CITY HALL PARK,
NEW YORK, February 14, 1878.

NOTICE TO PROPERTY-HOLDERS.

PROPERTY-HOLDERS ARE HEREBY NOTIFIED that the following assessment list was received this day in this Bureau for collection:

CONFIRMED FEBRUARY 7, 1878; ENTERED FEBRUARY 8, 1878.

Avenue A, paving from 86th to 93d street.
All payments made on the above assessment on or before April 15, 1878, will be exempt (according to law) from interest. After that date interest will be charged at the rate of seven (7) per cent. from the date of entry.
The Collector's office is open daily from 9 A. M. to 2 P. M. for the collection of money, and until 4 P. M., for general information.

EDWARD GILON,
Collector of Assessments

DEPARTMENT OF FINANCE,
BUREAU FOR THE COLLECTION OF ASSESSMENTS,
No. 16, NEW COURT-HOUSE, CITY HALL PARK,
NEW YORK, January 17, 1878.

NOTICE TO PROPERTY-HOLDERS.

PROPERTY-HOLDERS ARE HEREBY NOTIFIED that the following assessment lists were received this day in this Bureau for collection:

CONFIRMED AND ENTERED DECEMBER 15, 1877.

Fourth avenue crosswalks, south side of Seventy-fifth street.
Fourth avenue crosswalks, south side of Eighty-first street.

All payments made on the above assessments on or before March 18, 1878, will be exempt (according to law) from interest. After that date interest will be charged at the rate of seven (7) per cent. from the date of confirmation.
The Collector's office is open daily from 9 A. M. to 2 P. M., for the collection of money, and until 4 P. M., for general information.

EDWARD GILON,
Collector of Assessments.

DEPARTMENT OF FINANCE,
BUREAU FOR THE COLLECTION OF ASSESSMENTS,
No. 16 NEW COURT-HOUSE, CITY HALL PARK,
NEW YORK, January 7, 1878.

NOTICE TO PROPERTY-HOLDERS.

PROPERTY-HOLDERS ARE HEREBY NOTIFIED that the following assessment lists were received this day in this Bureau for collection:

CONFIRMED AND ENTERED DECEMBER 31, 1877.

96th street, sewer, between 8th and 10th avenues.
44th street, regulating, grading, etc., from 1st to 3d avenue.
3d avenue, regulating and paving, from Westchester avenue to 163d street.
3d avenue, regulating and paving, from 163d street to northern boundary 23d Ward.

All payments made on the above assessments on or before March 8, 1878, will be exempt (according to law) from interest. After that date interest will be charged at the rate of seven (7) per cent. from the date of confirmation.
The Collector's office is open daily from 9 A. M. to 2 P. M. for the collection of money, and until 4 P. M. for general information.

EDWARD GILON,
Collector of Assessments.

WILLIAM KENNELLY, AUCTIONEER.

SALE OF FERRY FRANCHISES.

THE FRANCHISES TO RUN THE FOLLOWING ferries and a lease of the wharf property belonging to the city, if any, set apart for ferry purposes at each of said ferries, will be sold at public auction to the highest bidder, at the office of the Comptroller of the City of New York, on Thursday, November 8, 1877, at 12 o'clock, noon, for the period of five years from November 1, 1877, except as otherwise stated:

Ferry from Peck Slip, New York City, to the foot of One Hundred and Thirtieth street at Third avenue, Harlem, with an intermediate landing at or near Eighty-fourth street, East river.

Ferry from Fulton Market slip, New York City, to Mott Haven, with an intermediate landing at or near Eighty-fourth street, East river, until May 1, 1879.

Ferry as now established from foot of Roosevelt street, in the City of New York, East river, to South Seventh street, Brooklyn, Eastern District, together with the bulkheads and slips adjacent to and east of the wharf property at foot of Roosevelt street, East river, owned by the Bridge Company, and now occupied for said ferry.

Bidders must bid for the franchise and lease of wharf property of each ferry separately, but no bid will be received unless it includes an offer for both the ferry franchise and wharf property.

The form of the lease required to be executed by the highest bidder can be seen at the office of the Comptroller.
All bids will be regarded as made with reference to said form of lease, and in case the highest bidder shall neglect to execute a lease according to said form, for ten days after said sale, his bid will, at the option of the Comptroller and the Board of the Department of Docks, be rejected.

The leases will contain a covenant requiring the lessees to pay rent quarterly-yearly to the Comptroller.

The minimum rate for which the ferry franchise or license to operate such ferries shall be used or enjoyed has been appraised and set by the Commissioners of the Sinking Fund at five per cent. per annum upon the gross receipts for ferriage collected at the New York landing-place for the ferry as now established from the foot of Roosevelt street, New York, to South Seventh street, Brooklyn, and at two and one-half per cent. per annum upon the gross receipts collected for ferriage for the ferries from Peck Slip, New York, to the foot of One Hundred and Thirtieth street, Third avenue, Harlem; and from Fulton Market slip, New York, to Mott Haven, such percentage to be paid quarterly-yearly to the Corporation, and a covenant will be contained in each lease requiring the lessees to make and deliver to the Comptroller of the City of New York, quarterly-yearly, a statement in writing, verified by oath or affirmation of the lessee, or of such proper officer of the lessee as may be designated by the Comptroller, of the actual total gross receipts for ferriage received by such lessee during the preceding three months, and also, that the lessee shall keep regular books of account, showing the daily gross receipts of the ferry lessee, and allow said Comptroller, or any person designated by him, to examine such books.

The franchise will be put up and knocked down to the person offering to pay the largest percentage.

All moneys received for the conveyance of passengers, animals, vehicles, or freight from New York to be collected at the landing place in New York, or, if collected elsewhere, to be included in the receipts upon which such percentage is to be calculated and paid.

No bid less than such percentage on such gross receipts will be entertained.

The successful bidder will be required to pay to the Collector of City Revenue the sum of fifteen hundred dollars immediately after the franchise shall have been struck down to him, as security for the execution and performance of the lease, such amount to be credited on the rent when the same becomes due.

Security, satisfactory to the Comptroller, will be required for the punctual performance by the lessees of the covenants of the lease of the franchise in their behalf.

Each purchaser of a lease will be required, at the time of the sale, and in addition to the auctioneer's fees, to pay to the Department of Docks twenty-five per cent. of the amount of the annual rent bid for the wharf property, as security for the execution of the lease, and which twenty-five per cent. will be applied to the payment of the rent for such property first accruing under the lease, when executed, or forfeited if the lessee neglects or refuses to execute the lease and bond after being duly notified that the lease is prepared and ready for signature, or, in case the bid be finally rejected, will be returned to the bidder.

Lessees will be required to pay their rent for the wharf property quarterly, in advance, in compliance with a stipulation therefor in the form of the lease adopted.

The franchise and the lease of the wharf property, if any, of each ferry will be put up and sold together to the highest bidder, subject to the condition hereinafter expressed, and subject also to the right of the Comptroller and the Board of the Department of Docks to reject any or all bids, if deemed to be for the interest of the city.

The right to reject any bid, if deemed to be to the interest of the City of New York, is reserved by the Commissioners of the Sinking Fund.

By order of the Commissioners of the Sinking Fund.

JOHN KELLY,
Comptroller.
JACOB A. WESTERVELT,
HENRY F. DIMOCK,
JACOB VANDERPOEL,
Board of Department of Docks.

COMPTROLLER'S OFFICE,
NEW YORK, November 1, 1877.

The above sale is adjourned to Thursday, November 15, 1877, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, November 8, 1877.

The above sale is adjourned to Thursday, November 22, 1877, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, November 15, 1877.

The above sale is adjourned to Thursday, December 13, 1877, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, November 22, 1877.

The above sale is adjourned to Thursday, December 27, 1877, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, December 13, 1877.

The above sale is adjourned to Thursday, January 10, 1878, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, December 27, 1877.

The above sale is adjourned to Thursday, January 17, 1878, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, January 10, 1878.

The above sale is adjourned to Thursday, January 31, 1878, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, January 17, 1878.

The above sale is adjourned to Thursday, February 14, 1878, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, January 31, 1878.

The above sale is adjourned to Thursday, February 28, 1878, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, February 14, 1878.

WILLIAM KENNELLY, AUCTIONEER.

SALE OF FERRY FRANCHISE.

PURSUANT TO ADJOURNMENT.

THE FRANCHISE TO RUN THE FOLLOWING ferry and a lease of the wharf property belonging to the city, set apart for ferry purposes at said ferry, will be sold at public auction to the highest bidder, at the office of the Comptroller of the City of New York, on Thursday, October 25, 1877, at 12 o'clock, noon, for the period of five years from November 1, 1877, namely:

Ferry from Ninety-second street, East river, to Astoria, Queens County, Long Island.

Bidders must bid for the franchise and lease wharf property of said ferry separately, but no bid will be received unless it includes an offer for both the ferry franchise and wharf property.

The form of the lease required to be executed by the highest bidder can be seen at the office of the Comptroller.

All bids will be regarded as made with reference to said form of lease, and in case the highest bidder shall neglect to execute a lease according to said form for ten days after said sale, his bid will, at the option of the Comptroller and the Board of the Department of Docks, be rejected.

The leases will contain a covenant requiring the lessees to pay rent quarterly-yearly to the Comptroller.
The minimum price for which the lease of said wharf property connected with the ferry from Ninety-second street, East river, to Astoria, Long Island, will be sold, has been fixed by the Board of the Department of Docks at the following sum, namely:

For bulkhead at foot of Ninety-second street, East river, and for premises at foot of Fulton street, Astoria, as now occupied for ferry purposes, at \$250 per annum.

The premises connected with the said ferry, to be taken in the condition in which they were in on the 1st day of August, 1877, and all repairs and rebuilding thereof, and dredging at said ferry during the term leased, to be done at the expense and cost of the lessees.

The purchaser of the lease will be required, at the time of the sale, and in addition to the auctioneer's fees, to pay to the Department of Docks twenty-five per cent. of the amount of the annual rent bid for the wharf property, as security for the execution of the lease, and which twenty-five per cent. will be applied to the payment of the rent for such property first accruing under the lease, when executed, or forfeited if the lessee neglects or refuses to execute the lease and bond after being duly notified that

the lease is prepared and ready for signature, or, in case the bid be finally rejected, will be returned to the bidder.
Lessees will be required to pay their rent for the wharf property quarterly, in advance, in compliance with a stipulation therefor in the form of the lease adopted.

The franchise and the lease of the wharf property, of said ferry will be put up and sold together to the highest bidder, subject to the condition hereinafter expressed, and subject also to the right of the Comptroller and the Board of the Department of Docks to reject any or all bids, if deemed to be for the interest of the city.

The right to reject any bid, if deemed to be to the interest of the City of New York, is reserved by the Commissioners of the Sinking Fund.

By order of the Commissioners of the Sinking Fund.

Dated New York, October 20, 1877.
JOHN KELLY,
Comptroller.
JACOB A. WESTERVELT,
HENRY F. DIMOCK,
JACOB VANDERPOEL,
Board of Department of Docks.

The above sale is adjourned to Thursday, November 8, 1877, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, October 25, 1877.

The above sale is adjourned to Thursday, November 15, 1877, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, November 8, 1877.

The above sale is adjourned to Thursday, November 22, 1877, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, November 15, 1877.

The above sale is adjourned to Thursday, December 13, 1877, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, November 22, 1877.

The above sale is adjourned to Thursday, December 27, 1877, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, December 13, 1877.

The above sale is adjourned to Thursday, January 10, 1878, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, December 27, 1877.

The above sale is adjourned to Thursday, January 17, 1878, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, January 10, 1878.

The above sale is adjourned to Thursday, January 31, 1878, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, January 17, 1878.

The above sale is adjourned to Thursday, February 14, 1878, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, January 31, 1878.

The above sale is adjourned to Thursday, February 28, 1878, at 12 o'clock, noon, at the same place.

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, February 14, 1878.

REAL ESTATE RECORDS

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

Grants, grantees, suits in equity, insolvents' and Sheriffs' sales, in 61 volumes, full bound, price... \$100 00
The same, in 25 volumes, half bound, price... 50 00
Complete sets, folded, ready for binding, price... 15 25
Records of Judgments, 25 volumes, bound, price... 10 00

Orders should be addressed to "Mr. Stephen Angell, Comptroller's Office, New County Court-house."

JOHN KELLY,
Comptroller.

COMPTROLLER'S OFFICE,
NEW YORK, February 6, 1877.

DEPARTMENT OF TAXES AND ASSESSMENTS.

DEPARTMENT OF TAXES AND ASSESSMENTS,
No. 32 CHAMBERS STREET,
NEW YORK, January 12, 1878.

NOTICE IS HEREBY GIVEN THAT THE BOOKS of Annual Record of the assessed valuation of Real and Personal Estate of the City and County of New York for the year 1878, will be open for inspection and revision on and after Monday, January 14, 1878, and will remain open until the 30th day of April, 1878, inclusive, for the correction of errors and the equalization of the assessments of the aforesaid real and personal estate.

All persons believing themselves aggrieved must make application to the Commissioners during the period above mentioned, in order to obtain the relief provided by law.

By order of the Board,

ALBERT STORER,
Secretary.

POLICE DEPARTMENT.

POLICE DEPARTMENT CITY OF NEW YORK,
PROPERTY CLERK'S OFFICE,
300 MULBERRY STREET,
NEW YORK, January 31, 1878.

OWNERS WANTED BY THE PROPERTY Clerk of the Police Department, City of New York, 300 Mulberry street, Room 39, for the following property now in his custody without claimants:

Black bags and contents, horse blankets, lace curtains, revolvers, gold glasses, tub butter, bag coffee, starch, twenty tubs putty, lot pig iron, and small amount of money taken from prisoners and found in street.

C. A. ST. JOHN,
Property Clerk.

LEGISLATIVE DEPARTMENT.

THE COMMITTEE ON LAW DEPARTMENT of the Board of Aldermen will meet in Room No. 9 City Hall, on Saturday, 1 o'clock P. M.

LOUIS C. WAHNER,
GEORGE HALL,
JOSEPH C. PINCKNEY,
Committee on Law Department.

DEPARTMENT OF DOCKS.

DEPARTMENT OF DOCKS,
117 AND 119 DUANE STREET,
NEW YORK, 14th February, 1878.

TO CONTRACTORS.

PROPOSALS FOR FURNISHING GRANITE STONES FOR BULKHEAD OR RIVER WALL.

SEALED PROPOSALS FOR FURNISHING THIS material, indorsed as above, and with the name or names of the person or persons presenting the same and the date of presentation, and addressed to "The President of the Department of Docks," will be received at this office until 12 o'clock M. of

TUESDAY, 26th FEBRUARY, 1878.

at which time and place the bids will be publicly opened by the head of said Department and read. The award of the contract will be made as soon as practicable after the opening of the bids.

Any bidder for this contract must be known to be engaged in, and well prepared for the business, and shall give security for the faithful performance of his contract, in the manner prescribed and required by ordinance, in the sum of four thousand dollars.

The Engineer's estimate of the work to be done is as follows:

To be furnished cut in accordance with specifications—580 pieces of granite, consisting of

"A." 255 Headers and containing about 11,200 cubic feet; and

"B." 264 Stretchers, 61 Coping Stones, containing about 5,033 cubic feet.

For further particulars, see drawings annexed to the specifications.

The time allowed for the completion of the contract is to the fifteenth day of August, 1878, and the damages to be paid by the contractor for each day that the contract may be unfulfilled, after the said time has expired, Sundays and holidays not to be excepted, are, by a clause in the contract, fixed and liquidated at fifty dollars per day.

Bidders will state in their proposals the price per cubic foot of the stone to be furnished in conformity with the annexed specifications, by which the bids will be tested. This price is to cover the expenses of freight, loading and unloading, and all other expenses necessary for the complete performance and fulfillment of the contract.

Bidders will write out the amount of their estimate for doing this work, in addition to inserting the same in figures.

Should the lowest bidder or bidders neglect or refuse to accept to contract within forty-eight (48) hours after written notice that the same has been made to his or their bid or proposal, or if, after acceptance, he or they should refuse or neglect to execute the contract for forty-eight hours after notice that the same is ready for execution, he or they shall be considered as having abandoned it, and as in default to the Corporation; and the contract will be re-advertised and re-let, and so on until it is accepted and executed.

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

Each proposal shall be accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the bid, they will, on its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation any difference between the sum to which said person or persons would be entitled on its completion and that which the Corporation may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety, and otherwise; and that he has offered himself as surety in good faith, and with the intention to execute the bond required by section 6 of chapter 574, Laws of 1871, and by section 27 of chapter VIII. of the Revised Ordinances of the City of New York, if the contract shall be awarded to the person or persons for whom he consents to become surety. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York, after the award is made, and prior to the signing of the contract.

Bidders are informed that no deviation from the specifications will be allowed, unless under the written instructions of the Engineer-in-Chief.

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

The right to decline all the proposals is reserved, if deemed for the interest of the Corporation.

Bidders are requested, in making their bids, to use the blank prepared for that purpose by the Department, a copy of which, together with the form of the agreement, including specifications, and showing the manner of payment for the material, can be obtained upon application at the office of the Department, Room No. 6.

JACOB A. WESTERVELT,
HENRY F. DIMOCK,
JACOB VANDERPOEL,
Commissioners of the Department of Docks.

HEALTH DEPARTMENT.

HEALTH DEPARTMENT, No. 301 MOTT STREET, NEW YORK, February 8, 1878.

AT A MEETING OF THE BOARD OF HEALTH of the Health Department of the City of New York, held at its office on the 8th day of February, 1878, the following resolution was adopted:

Resolved, That the following sections of the Sanitary Code be and are hereby annulled:

Section 33. That no person shall, in the built-up portion of the City of New York, or