

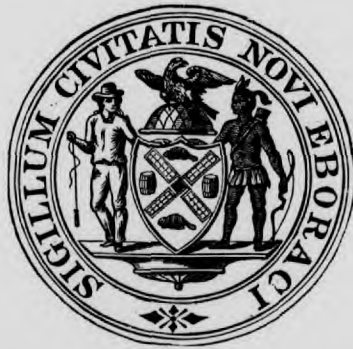
THE CITY RECORD.

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DEPARTMENT OF PUBLIC WORKS.

Report for the Quarter ending June 30, 1889.

DEPARTMENT OF PUBLIC WORKS—COMMISSIONER'S OFFICE,
NO. 31 CHAMBERS STREET,
NEW YORK, July 26, 1889.

Hon. HUGH J. GRANT, Mayor:

SIR—In accordance with section 49 of the New York City Consolidation Act of 1882, I have the honor to submit the following report of the transactions of the Department of Public Works for the quarter ending June 30, 1889:

SUMMARY OF EXPENDITURES.

(Being amount of requisitions drawn on the Comptroller.)

On account of appropriations raised by taxation (Consolidation Act of 1882, section 189)	\$746,360 62
On account of Local Improvement Fund, for Street Improvements (Consolidation Act, sections 144 and 150)	335,164 63
On account of Funded Debt, for improvement and extension of water supply (Consolidation Act, section 141, and Constitution of the State of New York, amended in 1884, sections 2 and 8)	90,659 28
On account of Special Fund, for restoring pavements over street openings (Revised Ordinances of 1880, section 354 to 357)	6,276 25
On account of Revenue Bonds for furnishing and setting water-meters (Consolidation Act, sections 161 and 352)	3,610 04
Total	\$1,182,070 82

EXPENDITURES FOR SIX MONTHS ENDING JUNE 30, 1889.

Appropriation Account	\$1,276,738 00
Local Improvement Fund	573,630 13
Funded Debt, water supply	120,333 03
Special Fund, restoring pavements	14,828 64
Revenue Bonds, water-meters	7,443 66
Total	\$1,992,973 46

SUMMARY STATEMENT OF CONTRACTS.

Contracts Entered Into during the Quarter.

11 sewer contracts, estimated cost	\$43,458 42
4 regulating and grading contracts, estimated cost	23,520 95
3 paving contracts, estimated cost	177,772 41
4 contracts for taking-up and relaying pavements, estimated cost	23,087 31
3 contracts for laying water-mains, estimated cost	80,541 90
7 gas contracts, estimated cost	468,150 00
14 miscellaneous contracts, estimated cost	132,522 00
14 contracts, under \$1,000 each, estimated cost	5,057 53
65 contracts, total estimated cost	\$954,110 52

Contracts Completed during the Quarter.

13 sewer contracts	\$55,750 37
7 regulating and grading contracts	22,169 93
16 paving contracts	119,719 25
1 contract for laying water-mains	15,298 95
4 miscellaneous contracts	34,361 24
18 contracts, under \$1,000 each	5,465 77
59 contracts, total cost	\$252,765 51

BUREAU OF CHIEF ENGINEER OF THE CROTON AQUEDUCT.

The natural flow of the Croton river has been sufficient during the quarter to supply the Aqueduct to its full capacity without drawing upon the storage reservoirs and natural lakes in the Croton basin.

The rainfall at the several stations where rain-gauges are kept by the Department was as follows:

Rain-fall—Inches.

LOCATIONS.	APRIL.	MAY.	JUNE.	TOTAL FOR QUARTER.
Boyd's Corners Reservoir.....	4.43	3.22	4.51	12.16
South East Reservoir.....	4.23	3.17	3.52	10.92
Kensico Reservoir.....	6.01	2.50	3.03	11.54
Central Park Reservoir.....	6.17	2.80	2.08	11.05
Croton Dam Reservoir.....	5.48	2.21	3.18	10.87

In August, 1888, the then Commissioner of Public Works directed the Chief Engineer of the Croton Aqueduct to make the necessary surveys and to prepare plans and specifications for the construction of a storage reservoir on the Muscoot branch of the Croton river. On an application of my predecessor, dated March 5, 1889, the Counsel to the Corporation instituted legal proceedings for the acquisition of the necessary lands for the reservoir, and the Supreme Court appointed Commissioners of Appraisal, who have since held several meetings. The surveys, plans and specifications for the work were completed when I entered upon the duties of this office and the work has since been advertised and awarded to the lowest bidder. 11 bids were received, ranging from the lowest, \$540,610, to the highest, \$1,062,360. The owners of the property on which the reservoir dam is to be built have given consent to enter upon the lands for the construction of the dam in advance of the report of the Commissioners of Appraisal and the confirmation of the same by the Supreme Court.

An average supply of 16,000,000 gallons of water per day has been received through the Bronx river conduit, for which 360,000,000 gallons of water were drawn from the Kensico Reservoir. The Rye Ponds Reservoir is full.

In addition to the ordinary work involved in the care and maintenance of the Croton Aqueduct, dam, storage reservoirs, lakes, streams, distributing reservoirs, operation of High Service Works, etc., the aqueduct structure has been strengthened by building additional retaining walls on the Third, Fifth and Sixth Divisions. The strain of carrying 96,000,000 gallons of water per day for the city's water supply through the Aqueduct, which was designed and constructed for a capacity of 75,000,000 gallons per day, requires extra care and attention to stop and prevent serious leaks and breaks.

The interior of the Aqueduct has not been thoroughly examined and repaired since 1884, because the needs of the City for its daily supply do not admit of shutting off the water for a sufficient length of time to make such examination and repairs. Consequently the leaks which occur have to be repaired from the exterior and this cannot always be done effectively.

Until the new aqueduct is completed and tested, the old aqueduct cannot be relieved of the extra strain to which it is now subjected, and the City must rely for its water supply on extra care and vigilance in protecting this structure.

The many complaints made to the Department of decreased and insufficient supply and pressure of water in the distributing mains call for a summary statement of the present condition of the City's water supply, and it is to be hoped that it will serve as an answer to the multitude of individual and local complaints and relieve the Department in some measure of the burden of making a separate answer to each complaint.

For upwards of fifteen years the Croton Aqueduct has been operated to its fullest capacity—from 25 to 30 per cent. above the capacity for which it was designed and constructed—for delivering water into the City reservoirs.

Since September, 1884, the City has received an additional supply of water from the Bronx river, originally calculated at an average of 10,000,000 gallons per day, but, by taking advantage of ample storage and conduit capacity, used for several years past to the extent of 16,000,000 gallons per day.

During the years that the water supply received in the city remained stationary, at the maximum capacity of the Aqueduct and the Bronx river system, the demand for water has been gradually increased by the growth of the city in population, buildings, commerce and manufactures. The extent of this growth in absence of census statistics since the census of 1880, may best be measured, so far as increase in demand for water supply is concerned, by the extension of the system of distributing mains.

On January 1, 1876, the distributing system comprised 425 $\frac{1}{3}$ miles of water-mains. By January 1, 1885, when the Bronx river supply had been brought into full use, it was extended to 563 miles of mains, and by January 1, 1889, to 638 $\frac{1}{4}$ miles of mains.

This extension of the water service, while the supply in the city remained stationary, has produced the natural result of greatly decreased pressures in the mains, so that where some years ago water was delivered to the uppermost stories of houses, there are now tens of thousands of buildings where it cannot be delivered above the first floor, and thousands where at certain hours of the day it does not rise to the first floor.

In nearly every case of complaint on account of such reduced pressure the parties consider themselves personally aggrieved and unfairly treated, without inquiring into or considering the circumstances which make it impossible to give them better supply and pressure of water until an additional supply is received through the new aqueduct.

This condition of affairs will necessarily continue and be aggravated until the new aqueduct is brought into operation. In the meantime the people should patiently acquiesce in the situation, and for the good of the community at large, practice reasonable care and economy in the use of water.

Since the advent of warm weather the consumption of water has been 155,000,000 gallons in excess of the supply received in the city, reducing the depth of water in the Central Park reservoirs by 63 inches, and causing a corresponding decrease of the pressures in the distributing mains.

Of the various measures devised and adopted to detect and prevent waste of water, the use of water-meters is the most effective, and the principal reliance for the preservation of a fair distribution of water throughout the city. During the quarter 475 additional water-meters have been placed, making a total of 19,086 meters now in use.

The distributing system has been extended by the laying of 23,869 lineal feet, or 4.51 miles of additional water-mains.

The work of replacing the water-mains and service-pipes along the water-front, which have become worn out and unsafe by corrosion from contact with salt water, has been continued with one gang of mechanics and laborers.

BUREAU OF WATER PURVEYOR.

Street Pavements.

Contracts for laying new pavements payable by assessment were completed on 17 uptown streets. The area of pavements laid on these streets is:

Granite blocks	42,926 square yards.
Trap-blocks	3,298 "
Asphalt	3,499 "
Total	49,723 square yards.

Only 2 contracts for repavements have been completed, viz.:

Twenty-eighth street, from Avenue A to East river.....	1,343 square yards.
Hudson street, from Chambers to Beach street.....	10,578 "
Total	11,921 square yards.

Work is in progress on 2 contracts for repaving Hudson street with granite-blocks on concrete foundation, from Beach to Spring street and from Spring to Fourteenth street, and these pavements will be completed in the course of two months.

On the repairs of pavements an average force of 179 pavers, 295 laborers, 95 carts and 4 teams has been employed and 130,167 square yards of pavements have been taken up and relaid by this force. In addition to this, work is now in progress on 3 contracts made during the quarter for taking up and relaying pavements from curb to curb in a number of streets.

The following summary shows the extent of the operations of private corporations and individuals in the public streets:

- 6,960 excavations made for laying and repairing gas-mains, steam-mains, electric subways, their house connections and other underground structures.
- 1,943 notices issued to repair pavements over excavations.
- 1,969 bad places in pavements repaired in compliance with notices.
- 10.21 miles of gas-mains laid.
- 2.28 miles of electric subways laid.
- 1,476 lineal feet of salt water-mains laid.
- 11,400 lineal feet of improved rails laid on street car tracks.

With the passage of the three acts passed by the last Legislature affecting street improvements in this city, the subject of repavements enters upon a new phase.

Chapter 348, Laws of 1889, appropriates \$3,000,000 for repavements, the expenditure not to exceed \$1,000,000 in any one year; the Board of Estimate and Apportionment to select and determine the streets to be repaved and the kind of pavement to be laid; the work to be done under the direction of this Department.

Chapter 449, Laws of 1889, authorizes the Common Council to direct by ordinance the paving, repaving or repairing of streets within the limits of grants of land under water, where the grantees and their successors are under obligation to build up, pave and maintain the streets, the cost to be assessed upon the lands within the grants, and the owners, by payment of such assessments, to be forever released from all obligations in respect to the street pavements. This may be considered a very proper solution of a state of affairs under which such important thoroughfares as West street, South street and abutting streets adjacent to the water-front have for years been without repairs or improvement of the pavements, which are all now in bad condition, the City having had no authority to expend any moneys on these streets, and the grantees or their successors failing to comply with their obligations.

Chapter 531, Laws of 1889, authorizes street railroad companies to change their present systems of motive power to cable, electricity or other agency, with the consent of the owners of a majority of the property along their lines, and with the approval of the State Railroad Commissioners. This affects the pavements to the extent to which the streets may be torn up in reconstructing rail-tracks for changes of motive power.

At the request of the Board of Estimate and Apportionment I have made two reports to that Board as to the streets which, in my opinion, should be first paved under the \$3,000,000 appropriation. In the first report, dated June 18, I expressed the view that the repavements should begin with the great avenues of trade and commerce and upon a plan which would open as speedily as possible easy and comfortable access to the piers, freight depots and ferries along the water-front, over good pavements, from the central and upper part of the city. In accordance with these plans I presented a list of seven streets for first repavement, at the same time mentioning the difficulties in the way of securing the best quality of pavements on account of the presence of railroad tracks, steam-mains, electric subways and other constructions which would in time necessitate the turning up of the pavements. On consideration of the subject the Board requested me to present another list of streets, where there would be no interference on account of railroad or other constructions, and such list I reported under date of 16th instant. It includes a number of residential streets in the central part of the city, between Fourth and Sixth avenues, for which I recommended asphalt pavement upon the ascertained merits of this pavement from its long and extensive use in the City of Washington.

In this report I also set forth the great objections to the prevailing style of centre-bearing rails on our surface roads, and the necessity of having them replaced by a rail presenting an even surface with the pavements, and without the projections and depressions which are obstructive and dangerous to wagon traffic and destructive to the pavements. It is to be hoped that the railroad corporations may soon be induced or compelled to substitute such approved rails for the objectionable centre-bearing rails.

Repairs and Renewals of Pipes, Stop-cocks, etc.

In this work, which is also under the direction of the Bureau of Water Purveyor, an average of 29 mechanics, 88 laborers, and 14 carts have been employed, and in connection with it 140 old fire-hydrants have been replaced by new ones and 2 additional hydrants placed.

OFFICE OF ENGINEER IN CHARGE OF SEWERS.

During the quarter 13 contracts for the construction of new sewers and receiving-basins were completed, and at the close of the quarter work was in progress on 26 contracts. Under the several contracts 5,168 lineal feet of sewers and 2 receiving-basins were built, increasing the extent of the sewerage system to 431 1/2 miles of sewers, with 5,179 receiving-basins.

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

- 146 lineal feet of sewers rebuilt.
- 176 lineal feet of sewers repaired.
- 175 lineal feet of new sewers built.
- 48 lineal feet of new culverts built.
- 140 lineal feet of spur-pipe laid.
- 252 lineal feet of tile-bottoms built.
- 7 receiving-basins repaired.
- 3 new manholes built.
- 37 new granite basin-heads furnished and set.
- 55 new basin-covers placed.
- 24 new manhole-heads and 50 new covers placed.
- 34,107 lineal feet of sewers cleaned.
- 875 receiving-basins cleaned.
- 2,121 cart-loads of sewer deposit removed.

The Department is making all practicable efforts to improve and extend the outlet sewers along the river front, but this work can only be proceeded with in accordance with the progress made with the improvements under the direction of the Department of Docks. Plans have been prepared and work will soon be commenced on two outlets which have recently been the subject of special complaint on the part of the Health Department, viz.: Fifty-sixth street and Hudson river, which now discharges through an open drain, will be extended to the new bulkhead; and Twenty-eighth street and East river, adjoining Bellevue Hospital, where the sewer outlet will be extended to the end of the pier.

The last two sections of the marginal or intercepting sewers along West street, from Eleventh street to the Battery, are now under contract. The section from Battery place to Rector street is approaching completion, and on the section between Harrison and Canal streets, work will soon be commenced.

BUREAU OF STREET IMPROVEMENTS.

At the beginning of the quarter work was in progress on 32 contracts for regulating, grading, curbing and flagging streets, and during the quarter 12 new contracts were made and 15 contracts completed, leaving 29 contracts now in progress.

The most important regulating and grading works now in progress are:

- Kingsbridge road, from One Hundred and Ninetieth street to Harlem river, which will take about one year to complete.
- Edgecombe avenue, from One Hundred and Forty-fifth street to St. Nicholas place, which will be completed in about six months.

First new avenue west of Eighth avenue, from One Hundred and Forty-fifth to One Hundred and Fifty-fifth street, to be completed in two months.

Fifth avenue, from One Hundred and Thirty-eighth street to Harlem river, begun January last and to be finished in about four months.

Ninety-second and One Hundred and Sixth streets, from the Boulevard to Riverside Drive, are works of heavy rock and earth excavation, and may be completed this year.

The following are the aggregate quantities of work done during the quarter on all the contracts:

- 6,660 cubic yards of earth excavated.
- 18,617 cubic yards of rock excavated.
- 76,800 cubic yards of filling placed in embankments.
- 5,812 lineal feet of curb-stones set.
- 2,326 lineal feet of curb-stones reset.
- 68,224 square feet of flagging laid.
- 6,729 square feet of flagging relaid.
- 3,200 cubic yards of retaining-wall built.
- 250 lineal feet of drain-pipe laid.

BUREAU OF STREETS AND ROADS.

This Bureau has charge of the macadam roadways, and the country roads and unpaved streets in the upper part of the city.

There are 23.78 miles of macadam roadways under the charge of the Bureau, covering an area of 867,762 square yards. Most of them were built about twenty years ago for suburban drives, but that section of the city is no longer suburban, and most of these roadways, which were intended only for light wagon traffic and pleasure driving, are now subjected to as heavy traffic and trucking as most of the stone-block pavements in the lower part of the city. Under such traffic macadam roadways cannot be kept in proper condition, even at heavy expense, and with the limited means now and heretofore appropriated for their maintenance it is impossible to prevent their deterioration. This is especially true of the Boulevard west of the Central Park, which is now principally a thoroughfare for the transportation of the immense quantities of building materials used on the extensive public and private improvements in that section of the city. Strong appeals are made by some of the property-owners to have the Boulevard, from Seventy-second to One Hundred and Tenth street paved with asphalt at once, but while such pavement will ultimately be the proper one, it should not be laid until the character of the traffic over the roadway is radically changed by the practical completion of the public and private improvements, and the opening of the other streets and avenues for heavy trucking, as such traffic would speedily destroy an asphalt pavement. Nearly the same condition of affairs applies to the roadways built in 1872 to 1875 under the Eastern Boulevard Act, and to other streets which were since macadamized under ordinances of the Common Council. In the present condition of the roads the public, and especially the residents along the roads, suffer alternately from excessive dust and from excessive mud. With the exception of a few drives connecting the Central Park roads with the Riverside Park and with the upper end of the island, all the macadam roads now on Manhattan Island should be gradually replaced with stone blocks or with asphalt, according to the character of the private improvements and buildings of the neighborhood. Additional macadam roadways should only be built in locations which, from their surroundings and the formation of the ground, will always retain a suburban character, such as the high ridge between the Hudson and Harlem rivers, north of One Hundred and Fifty-fifth street, and the declivities along the rivers.

During the quarter the more important drives have been resurfaced with gravel and put in good condition and the work will be continued and extended as far as the appropriation will permit.

Repairs of dangerous places have been made on 32 unpaved streets. There are now 41 miles of unpaved streets and 2 1/2 miles of country roadways under the charge of this Bureau.

BUREAU OF LAMPS AND GAS.

The following changes in the public lamps were made during the quarter:

- 135 additional gas-lamps placed and lighted.
- 368 old gas-lamps relighted.
- 16 electric-lamps relighted.
- 213 gas-lamps discontinued.
- 157 electric-lights discontinued on account of cutting the wires.

At the close of the quarter there were 23,521 gas-lamps, 1,189 electric-lights, and 120 naphtha-lamps in use on the streets, parks, docks and bridges of the city.

Contracts for lighting public lamps for the year beginning May 1, 1889, have been executed as follows:

Equitable Gas-light Co.	\$12 00	per annum for each lamp.
Consolidated Gas-light Co.	17 50	" " "
New York Mutual Gas-light Co.	17 50	" " "
Central Gas-light Co.	27 00	" " "
Northern Gas-light Co.	28 00	" " "
Yonkers Gas-light Co.	28 00	" " "
New York and New Jersey Globe Gas-light Co.	23 00	" " "

These prices are the same as last year, except the reduction of \$1 per lamp by the Central, Northern and Yonkers Gas-light Companies, and \$2 by the New York and New Jersey Globe Gas-light Company.

Bids for electric-lighting were received on March 27, rejected by the Gas Commission, and new bids asked for and received on the 2d inst.

BUREAU OF REPAIRS AND SUPPLIES.

In the report of the Superintendent of Repairs and Supplies, Document K, hereto annexed, will be found a detailed statement of ordinary repairs and alterations made in the various public buildings and offices under the charge of this Department, including the buildings in the City Hall Park, the offices in No. 31 Chambers street, Stewart building and Staats Zeitung building, the Civil and Police Courts, the Armories of the National Guard and the Public Markets.

Of the larger alterations and improvements made or now in progress, I mention the following: Contract and specifications have been made for two new passenger elevators in the New Court-house, which work will be completed at an early day.

Work is in progress under contracts for rebuilding the marble steps in front of the City Hall, retiling the portico and rebuilding the flank walls and steps of the plaza. A contract for repaving the plaza is about to be let.

The work of alterations and additions to the building occupied by the Fifth District Civil Court, in Clinton street, has been put under contract and will be begun as soon as temporary quarters are provided for the Court.

The buildings occupying the block bounded by Centre, Elm, Franklin and White streets, have been sold at public auction to make room for a new criminal court building, and the work of removing the buildings and clearing the grounds is nearly finished.

The plumbing, drainage and ventilation of the building, No. 49 Beekman street, have been nearly reconstructed according to plans and specifications approved by the Health Department.

Public Baths.

The thirteen baths which were in use last quarter have been thoroughly repaired, painted and refitted for the bathing season of 1889. The report of the Superintendent of Repairs and Supplies gives the locations of twelve of the baths for the season, the dates when they were put in position, and the attendance at each bath to the close of the quarter. The total attendance at the twelve baths was 185,400 males and 79,000 females. The thirteenth bath has been placed in position at the foot of East Seventy-eighth street, since the close of the quarter, the Department of Docks having been unable to furnish a suitable berth earlier in the season.

By Laws of 1888, authority was given for the construction of two additional baths. So much time was consumed in the preparation of plans, contract and specifications for these two baths, that they were not put under contract until April 1, 1889, to be completed in ninety days. The contractor has delayed the work so much that he has been notified that unless he makes more satisfactory progress the contract will be declared abandoned and forfeited and the work readvertised and relet.

BUREAU OF INCUMBRANCES.

The operations of this Bureau for the quarter are summarized as follows :

- 1,341 complaints of obstructions received and attended to.
1,783 seizures and removals of obstructions made.
3,415 permits issued to place building materials on streets.
3 permits issued to cut down shade-trees.
368 miscellaneous permits issued.
256 notices issued to repair defective sidewalks.
2 notices issued to repair defective vault covers.
79 cart-loads of stone and refuse material removed from the streets.
148 dead and dangerous shade-trees removed.
941 telegraph-poles and 4,241,861 lineal feet of electric wire removed.

The obstructions which cause the greatest number of complaints, and are the most difficult to be dealt with, are vehicles left standing in the streets, perambulating vendors' stands and carts, and building materials placed and littered on the streets in excess of the limits of permits. With its limited force of Inspectors this Department cannot effectively cope with this class of obstructions, which would require the constant patrolling of over 500 miles of streets. The only agency through which this duty can be performed with some degree of proficiency is the Police force.

BUREAU OF WATER REGISTER.

The following is the amount of revenue from the water-service collected and paid into the City Treasury during the quarter :

Table with 2 columns: Description and Amount. Rows include: For water rents \$684,989 41; For penalties on water rents 1,669 35; For permits to tap water-pipes 3,621 50; Total \$690,280 26.

MISCELLANEOUS REVENUE.

The Department has also collected from various sources and paid into the City Treasury the following amounts :

Table with 2 columns: Description and Amount. Rows include: For sewer permits \$8,368 92; For vault permits 39,054 10; For redemption of street obstructions 688 00; For use of sprinkler and road-roller 176 00; For property sold at auction 2,487 65; For work done and material furnished citizens 479 29; For rent of farm at Lake Gilead 60 00; For restoration of pavements over street openings 10,179 50; For furnishing and setting water-meters 2,651 19; Total \$64,144 65.

The following documents, hereto appended, contain further detailed information as to the operations of the Department :

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

Very respectfully,

THOS. F. GILROY, Commissioner of Public Works.

Document "A."

Showing Titles of Appropriations; Appropriations with Transfers, of 1888; Requisitions on 1888, to April 1, 1889; Requisitions on 1888 in Second Quarter of 1889; Balances of 1888 on July 1, 1889; Appropriations with Transfers of 1889; Requisitions First Quarter of 1889; Requisitions Second Quarter of 1889; Balances, July 1, 1889; the Titles and Expenditures on Trust and Special Accounts, and Receipts for the First Six Months of 1889.

Main table with 9 columns: TITLES OF APPROPRIATIONS, APPROPRIATIONS INCLUDING TRANSFERS OF 1888, REQUISITIONS FROM JANUARY 1, 1888, TO APRIL 1, 1889, REQUISITIONS ON LIABILITIES OF 1888, DURING SECOND QUARTER OF 1889, BALANCES OF 1888, ON JULY 1, 1889, APPROPRIATIONS WITH TRANSFERS FOR 1889, REQUISITIONS FIRST QUARTER OF 1889, REQUISITIONS SECOND QUARTER OF 1889, BALANCES JULY 1, 1889. Includes a Totals row at the bottom.

Table with 8 columns: TITLES OF TRUST ACCOUNTS, BALANCES FROM 1888, RECEIPTS FIRST QUARTER OF 1889, RECEIPTS SECOND QUARTER OF 1889, BALANCES OF 1888 AND RECEIPTS OF 1889, REQUISITIONS FIRST QUARTER OF 1889, REQUISITIONS SECOND QUARTER OF 1889, REQUISITIONS SIX MONTHS TO JULY 1, 1889, BALANCES JULY 1, 1889. Includes a Totals row at the bottom.

Statement of General Bookkeeper, Department of Public Works, Showing all Revenues of the City Received through the Department during the First and Second Quarters of 1889.

Table with 9 columns: SOURCE OF REVENUE, FIRST QUARTER, SECOND QUARTER, TOTAL, SOURCE OF REVENUE, FIRST QUARTER, SECOND QUARTER, TOTAL. Rows include: Water rents, Water penalties, Pipe tapping, Sewer permits, Vault permits, Redemption of street obstructions, Use of sprinkling wagons and road rollers, Sales at auction, Work done and material furnished citizens, Rent of farm at Lake Gilead, Totals.

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

Document "B."

A Detailed Statement of Expenditures for which Requisitions were drawn on the Comptroller by the Commissioner of Public Works during the Quarter ending June 30, 1889.

APPROPRIATIONS.

Table with 2 columns: Description and Amount. Includes Aqueduct—Repairs, Maintenance and Strengthening— with sub-items like Blacksmithing, Brick, cement, etc., Coal, etc.

Total \$42,304 41

Aqueduct—Repairs, Maintenance and Strengthening, 1888— Underground cable \$450 02

Boring Examinations for Grading and Sewer Contracts— Pay-rolls \$967 50

Boulevards, Roads and Avenues, Maintenance of— with sub-items like Elm trees, Gravel and screenings, Horse-hire, etc.

Total \$28,585 70

Boulevards, Roads and Avenues, Maintenance of, 1888— Gravel \$796 50

Bronx River Works—Maintenance and Repairs— with sub-items like Graphite grease, Pay-rolls, etc.

Total \$4,087 94

Contingencies—Department of Public Works— with sub-items like Incidental expenses, Horse-hire, Postage, etc.

Total \$850 11

Flagging Sidewalks and Fencing Vacant Lots, etc.— Pay-roll \$77 00

Free Floating Baths—Care and Maintenance— with sub-items like Pay-roll, Repairing pumps, etc.

Total \$2,313 84

Lamps and Gas and Electric Lighting— with sub-items like Gas examinations, Horse-hire, Lamp irons, etc.

Lamps and Gas and Electric Lighting— with sub-items like Lighting Market, Tompkins, Union, Washington, etc.

Total \$178,418 31

Lamps and Gas and Electric Lighting, 1888— with sub-items like Lighting Streets, Brush Electric Illuminating Co., etc.

Total \$78,562 84

Laying Croton Pipes— with sub-items like Cast-iron pipe, Horse-hire, Pay-rolls, etc.

Total \$11,218 10

Laying Croton Pipes, 1888— with sub-items like Boring, etc., Blackwell's Island, Cast-iron pipe, etc.

Total \$24,273 38

Public Buildings—Construction and Repairs— with sub-items like Armory, Second Battery, Seventh Regiment, etc.

Total \$17,597 30

Public Drinking-hydrants— Repairing hydrants \$524 50

Removing Obstructions in Streets and Avenues— with sub-items like Pay-rolls, Removing obstructions, etc.

Total \$12,359 56

Repairing and Renewal of Pipes, Stop-cocks, etc.— with sub-items like Changing taps, Coal and wood, Damages, etc.

Total \$48,944 85

Repairing and Renewal of Pipes, Stop-cocks, etc., 1888—
Cast-iron pipe..... \$4,068 78

Repairs and Renewal of Pavements and Regrading—
Cement..... \$102 30
Horse-hire..... 474 00
Pay-rolls..... 95,255 11
Redressing granite-blocks..... 800 00
Removing rock..... 96 50
Repairing pavement..... 165 00
" steam-roller..... 417 50
" tar-pots..... 210 00
" tool-carts..... 103 00
" tools..... 386 30
" wagon..... 20 00
Sand..... 1,996 77
Steel plates..... 18 90
Stone..... 3,831 38
Tools and supplies..... 548 05
Traveling expenses..... 83 00
Total..... \$104,507 81

Repairs and Renewal of Pavements and Regrading, etc., 1888—
Relaying pavement..... \$5,841 45

Repaving Streets and Avenues, 1888—
First street, between Bowery and Avenue A..... \$574 90
Third street, between Bowery and Avenue B..... 812 30
Thirteenth street, between Gansevoort street and Ninth avenue..... 363 80
Twenty-first street, between Eighth and Tenth avenues..... 544 90
Twenty-seventh street, between Ninth and Tenth avenues..... 545 10
Twenty-eighth street, between First avenue and East river..... 3,099 67
Twenty-ninth street, between Ninth and Tenth avenues, etc..... 540 30
Cherry street, between Jackson and Clinton streets..... 524 00
Dry Dock street, between Tenth and Eleventh streets, etc..... 484 30
Hudson street, between Chambers and Beach streets..... 10,486 00
Monroe street, between Gouverneur and Jackson streets..... 515 90
Orchard street, between Division and Houston streets..... 755 90
Ridge street, between Stanton and Houston streets, etc..... 434 40
Stanton street, between Bowery and Clinton street..... 592 20
Total..... \$20,273 67

Roads, Streets and Avenues Unpaved, Maintenance, etc.—
Pay-rolls..... \$5,495 15

Sewers—Repairing and Cleaning—
Basin-heads..... \$3,210 00
Brick, cement and sand..... 765 50
Building culvert..... 175 00
Cleaning sewers..... 8,849 18
Horse-hire..... 504 00
Lumber..... 211 00
Map..... 100 00
Pay-rolls..... 17,819 11
Removing basin-head..... 5 00
Repairing sewer..... 3,292 48
Tools..... 40 75
Repairing wagon..... 60 00
Setting basin-heads..... 948 54
Sewer-pipe and bottoms..... 1,038 67
Stone..... 184 80
Tools and supplies..... 382 69
Traveling expenses..... 368 30
Total..... \$37,955 02

Sewers—Repairing and Cleaning, 1888—
Repairing sewers..... \$8,805 83

Supplies for and Cleaning Public Offices—
Armory, Eighth Regiment..... \$100 00
" Eleventh..... 130 00
Board of Aldermen..... 226 41
Bureau of Repairs and Supplies..... 2,353 20
City Hall..... 750 97
Department of Public Works..... 82 85
Court, Civil, Fourth District..... 95 00
Governor's Room, City Hall..... 17 02
Office, Comptroller..... 68 30
" Corporation Attorney..... 12 00
" Recorder..... 67 75
Pay-rolls..... 18,318 53
Coal and wood..... 4,521 08
Total..... \$26,743 11

Supplies for and Cleaning Public Offices, 1888—
Pay-roll..... \$3 87

Street Improvements—For Surveying, Monumenting, etc.—
Pay-rolls..... \$353 50

Water Supply for the Twenty-fourth Ward—
Supply of water..... \$1,352 20

Wells and Pumps—Repairing and Cleaning—
Repairing pumps..... \$155 81

RECAPITULATION OF APPROPRIATIONS.

Aqueduct—Repairs, Maintenance and Strengthening..... \$42,304 41
Aqueduct—Repairs, Maintenance and Strengthening, 1888..... 450 02
Aqueduct—Repairs, Maintenance and Strengthening—Salaries..... 6,752 07
Boring Examinations for Grading and Sewer Contracts..... 907 50
Boulevards, Roads and Avenues, Maintenance of..... 28,585 70
Boulevards, Roads and Avenues, Maintenance of, 1888..... 790 50
Boulevards, Roads and Avenues, Maintenance of—Salaries..... 624 99
Bronx River Works—Maintenance and Repairs..... 4,087 94
Bronx River Works—Maintenance and Repairs—Salaries..... 941 67
Contingencies—Department of Public Works..... 850 11
Flagging Sidewalks and Fencing Vacant Lots..... 77 00
Free Floating Baths—Care and Maintenance..... 2,313 84
Free Floating Baths—Salaries..... 1,769 00
Lamps and Gas and Electric Lighting..... 178,418 31
Lamps and Gas and Electric Lighting, 1888..... 78,562 84
Lamps and Gas and Electric Lighting—Salaries..... 1,541 62
Laying Croton Pipes..... 11,218 10
Laying Croton Pipes, 1888..... 24,273 38
Laying Croton Pipes—Salaries..... 4,013 98
Public Buildings—Construction and Repairs..... 17,597 30
Public Drinking-hydrants..... 524 50
Public Drinking hydrants—Salaries..... 200 00
Removing Obstructions in Streets and Avenues..... 12,359 56
Removing Obstructions in Streets and Avenues—Salaries..... 1,657 78
Repairing and Renewal of Pipes, Stop-cocks, etc..... 48,944 85
Repairing and Renewal of Pipes, Stop-cocks, etc., 1888..... 4,068 78

Repairs and Renewal of Pavements and Regrading..... \$104,507 81
Repairs and Renewal of Pavements and Regrading, 1888..... 5,841 45
Repairs and Renewal of Pavements and Regrading—Salaries..... 2,022 98
Repaving Streets and Avenues, 1888..... 20,273 67
Repaving Streets and Avenues—Salaries..... 2,075 50
Roads, Streets and Avenues Unpaved—Maintenance, etc..... 5,495 15
Salaries—Department of Public Works..... 24,370 08
Salaries of Engineer, Clerks, Inspectors and Measurers, etc..... 12,433 92
Sewerage System—Salaries..... 4,943 18
Sewers—Repairing and Cleaning..... 37,955 02
Sewers—Repairing and Cleaning, 1888..... 8,805 83
Sewers—Repairing and Cleaning—Salaries..... 2,469 98
Street Improvements—For Surveying, etc..... 353 50
Supplies for and Cleaning Public Offices..... 20,743 11
Supplies for and Cleaning Public Offices, 1888..... 3 87
Supplies for and Cleaning Public Offices—Salaries..... 4,863 61
Supplying Water to Shipping, etc.—Salaries..... 2,570 99
Surveys, Maps, etc., for Street Openings, etc.—Salaries..... 4,021 21
Water Supply for the Twenty-fourth Ward..... 1,352 20
Water Supply for the Twenty-fourth Ward—Salaries..... 300 00
Wells and Pumps—Repairing and Cleaning..... 155 81
Total..... \$746,360 62

TRUST ACCOUNTS.

CROTON WATER FUND.

Drawing materials..... \$453 82
Horse-hire..... 312 00
Land..... 9,495 00
Pay-rolls..... 10,563 74
Printing..... 118 50
Rent of mill seat..... 300 00
Rent of offices..... 150 00
Repairing instruments..... 90 75
Reservoir at Williamsbridge..... 34,281 00
Services, clerical..... 1,353 56
Services, Commissioners..... 20,824 18
Services, Legal..... 11,000 75
Services, Stenographer's..... 978 25
Supplies..... 115 50
Traveling expenses..... 622 23
Total..... \$90,659 28

RESTORING AND REPAVING—SPECIAL FUND—DEPARTMENT PUBLIC WORKS.

Pay-rolls..... 1,704 25
Restoring pavements..... 4,572 00
Total..... \$6,276 25

STREET IMPROVEMENT FUND.

Curbing and flagging..... \$14,467 73
Fencing..... 36 50
Paving and crosswalks..... 161,728 32
Regulating, grading, etc..... 52,932 55
Sewers..... 78,441 87
Pay-rolls..... 23,394 98
Surveying..... 3,528 53
Protecting gas-mains..... 542 97
Total..... \$335,973 45

WATER-METER FUND, NO. 2.

Placing meters..... \$1,514 04
Water-meters..... 2,096 00
Total..... \$3,610 04

RECAPITULATION OF FUNDS.

Croton Water Fund..... \$90,659 28
Restoring and Repaving—Special Fund..... 6,276 25
Street Improvement Fund..... 335,973 45
Water-meter Fund, No. 2..... 3,610 04
Total..... \$435,619 02

GENERAL SUMMARY.

Appropriations..... \$746,360 62
Funds..... 435,619 02
Total..... \$1,181,979 64

Document "C."

STATEMENT OF CONTRACTS.

Contracts Entered into During the Three Months ending June 30, 1889.

Date of Contract.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.
	Sewer Contracts.			
May 21	Extension of sewer in front street, between Old Slip and Wall street.	Charles Montgomery, 722 East 143d street.	M. McGrath, 64 East 106th street.. R. McLaughlin, Brook ave. & 143d st.	\$1,873 50
" 21	Alterations and improvements to sewer in Eighty-third street, between Eighth and Ninth avenues.	Charles Montgomery, 722 East 143d street.	M. McGrath, 64 East 106th street.. R. McLaughlin, Brook ave. & 143d st.	4,092 00
" 21	Alterations and improvements to sewer in Ninth avenue, west side, between Eighty-third and Eighty-fourth streets.	Charles Montgomery, 722 East 143d street.	R. McLaughlin, Brook ave. & 143d st. M. McGrath, 64 East 106th street..	1,663 50
" 21	Receiving-basins on southeast corners of Ninety-fifth, Ninety-sixth and Ninety-seventh streets and Madison avenue, and on southwest corners of Ninety-eighth, Ninety-ninth, One Hundredth, One Hundred and First, One Hundred and Second and One Hundred and Third streets and Madison avenue.	Charles Montgomery, 722 East 143d street.	R. McLaughlin, Brook ave. & 143d st. M. McGrath, 64 East 106th street..	2,202 50
" 21	Repairs to sewer in Fourth street, between Avenues A and C.	George F. Doak, 10th ave. and 153d st.	Louis D. Beck, Astor House..... Ransom Parker, Jr., 224 West 11th street.	4,053 60
" 21	Repairs to sewer in Thirteenth street, between Avenues A and C.	George F. Doak, 10th ave. and 153d st.	Louis D. Beck, Astor House..... Ransom Parker, Jr., 224 West 11th street.	3,951 77
" 27	Repairs to sewer in Forty-eighth street, from first manhole east of First avenue to Second avenue.	Patrick Larney, 325 East 38th street.	Edward Mahon, 300 East 75th street.. Robert Gordon, 230 East 42d street..	2,975 75
" 31	Alterations and improvements to sewer in Fourth avenue, east side, between Seventy-second and Seventy-fourth streets; and in Seventy-second street, north and south sides, between Lexington and Fourth avenues.	Terence A. Smith, 162 East 36th street.	Jos. C. Biglin, 158 East 37th street.. B. Biglin, Gilsley House.....	17,796 50

RECAPITULATION.

Table with 2 columns: Item description and Amount. Includes Sewer Contracts, Regulating and Grading Contracts, Paving Contracts, etc.

Contracts Completed during the Three Months ending June 30, 1889.

Main table with 4 columns: DATE, NATURE, LOCATION OF WORK, TOTAL COST. Lists various construction projects from April to June 1889.

RECAPITULATION.

Summary table with 2 columns: Item description and Amount. Totals contracts for the quarter.

Document "D."

REPORT OF CHIEF ENGINEER OF THE CROTON AQUEDUCT.

DEPARTMENT OF PUBLIC WORKS, OFFICE OF CHIEF ENGINEER, No. 31 CHAMBERS STREET, ROOM 10, NEW YORK, July 2, 1889.

Hon. THOMAS F. GILROY, Commissioner of Public Works:

DEAR SIR—In compliance with your instructions, I herewith submit report for the quarter ending June 30, 1889:

EXPENDITURES.

Table with 2 columns: Item description and Amount. Lists expenditures for Aqueduct repairs, salaries, and water supply.

STORAGE RESERVOIRS.

The Croton river furnished a full supply of water to the Aqueduct during the quarter. All of the lakes and reservoirs in the Croton basin are full.

Rainfall—Inches.

Table with 5 columns: Reservoir Name, April, May, June, Total for Quarter. Shows rainfall data for various reservoirs.

Plans and maps and contracts and specifications for Reservoir "A" on the Muscote Branch of the Croton river have been prepared and the work advertised to be let.

The commission appointed to appraise lands for the Reservoir "A" on Muscote river, have held several meetings and consent has been given by the parties owning lands where the dam is to be built to the occupation of same.

The searches, surveys and maps of balance of the lands necessary for this reservoir not now before a commission are being made.

BRONX RIVER SUPPLY.

The commission appointed to appraise the damages on the Bronx river in Westchester County, between Woodlawn and Williamsbridge are taking testimony as to same.

The work on the Williamsbridge Reservoir is being carried on in a satisfactory manner and will be completed before winter.

An average of 16,000,000 gallons of water per day has been furnished through this conduit and reservoir without interruption during the quarter.

The change of drainage of the adjacent property caused by the building of the reservoir at Williamsbridge necessitates the building of a number of drains on said property to accommodate the drainage, which work is now being prosecuted by the regular force.

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

The work of connecting the Bryan river with the Bronx has been delayed on account of not having possession of the land necessary for same.

Surveys, maps and negotiations are now being made to obtain same, and also for the lands necessary for a reservoir at Byram Pond.

Surveys and plans are also being made to clear out, widen and straighten the Byram river and to reconstruct the old reservoir at Byram Pond.

Storage water drawn from the Kensico Reservoir during the quarter, 360,000,000 gallons. Rye Ponds Reservoir is full.

All of the works on this supply are in good order.

AQUEDUCT—REPAIRS, MAINTENANCE AND STRENGTHENING.

Work Done during the Quarter ending June 30, 1889.

Table with 8 columns: Divisions, Earth Excavation, Stone Quarried, Dry Masonry, Fence (Built/Repaired), Paving, Filling and Grading, Sodding. Details work done on the aqueduct.

The regular maintenance of the Aqueduct has been continued as usual during the past quarter, such as care of dam, lake, gate-house, machinery and grounds, attending leaks, patrolling Aqueduct property and building and repairing fences.

The particular work has been as follows:

First Division—Care of dam, lake, gate-houses and machinery; cutting bushes and weeds from shores of lake; attending leaks and policing vicinity of dam.

Second Division—Care and attention to leaks; clearing up line; cutting grass; building and repairing fences.

Third Division—Building wall in lot at barn-yard; excavating rock at same place; filling in and grading on High bank; building retaining-wall on Kingsland's bank; attending Aspinwall leak; building and repairing fences; cutting grass, etc.

Fourth Division—General work along line of Aqueduct; clearing up surface; cutting grass, etc.

Fifth Division—Building retaining-walls in Glen; excavating for same; paving bank in Glen; seeding banks at Warburton avenue and glue factory; painting house; building and repairing fences.

Sixth Division—Building wall on Nickerson's bank; building wall in Sanford's lot and at upper end of division; quarrying stone; filling and grading banks; attending leaks; building and repairing fences.

Seventh Division—Care of High Bridge, reservoir, gate-houses, engine-houses and grounds; patrolling neighborhood of same; grading south side of reservoir and spreading screenings around same; sodding banks of reservoir; grading, excavating and sodding at High Bridge steps; painting and repairing inside of tower; setting curb and flag on Tenth avenue front of High Bridge Reservoir; hoisting coal; cutting grass, etc.

Eighth Division—Cleaning and repairs of Central Park and Forty-second Street reservoirs, gate-houses, chambers and outside mains; cleaning, repairs and maintenances of High Service Works, Ninth and Tenth avenues gate-houses and grounds; cutting grass around reservoir in Cen-

The following table shows the total lengths and areas of pavements in this city at the close of the quarter, classified according to their different kinds :

KIND OF PAVEMENT.	SQUARE YARDS.	LINEAL FEET.	MILES.
Specification granite.....	1,980,564.01	471,971.05	89.39
Block granite.....	673,402.00	136,717.00	25.89
Specification trap.....	1,235,982.00	350,940.20	65.47
Belgian.....	3,166,949.00	723,511.05	137.02
Cobble.....	116,296.00	33,172.20	6.30
Asphalt.....	37,900.17	10,360.30	1.96
Wood.....	516.00	155.00	.03
Russ.....	2,964.00	621.00	.12
Macadam.....	846,265.00	124,894.00	23.65
Totals.....	8,060,838.18	1,852,344.80	350.83

The above includes only contracts completed prior to June 30, 1889.

STREET OPENINGS.

The following work was done during the quarter under the supervision of this Bureau : 6,960 openings were made to repair all mains other than Croton water-mains, and to make repairs of and connections for gas, steam, water, sewers and electric-lights and subways.

- 1,943 notices were sent to corporations and others to repair bad pavement over their openings.
- 1,969 bad places in the pavement were repaired in compliance with the above notices.
- 1,021 miles of gas-mains were laid.
- 228 miles of subways were laid.
- 1,476 linear feet of salt water-mains were laid.
- 11,400 linear feet of approved new style of rails for surface railroad tracks were laid.

Yours respectfully,
WM. H. BURKE, Water Purveyor.

Document "F."

REPORT OF ENGINEER IN CHARGE OF SEWERS.

DEPARTMENT OF PUBLIC WORKS,
OFFICE OF ENGINEER IN CHARGE OF SEWERS,
NO. 31 CHAMBERS STREET, ROOM 9,
NEW YORK, July 2, 1889.

Hon. THOMAS F. GILROY, Commissioner of Public Works :

DEAR SIR—In compliance with your instructions, I hand you herewith my report of the transactions of this office for the quarter ending June 30, 1889 :

5,168 linear feet of new sewers and 2 receiving-basins have been built, making the present total length of the sewerage of the city 2,275,821 linear feet (431 ¹/₁₀ miles), with 5,179 receiving-basins.

- Eleven sewer and 2 basin contracts have been completed, viz. :
Sewer in Lexington avenue, between Seventy-fourth and Seventy-fifth streets.
 - Sewer in Eighty-eighth street, between West End avenue and Boulevard.
 - Sewer in Ninetieth street, between Ninth and Tenth avenues (extension).
 - Sewer in Manhattan avenue, between One Hundred and Sixth and One Hundred and Tenth streets (repairs).
 - Sewer in Fifty-third street, at Tenth avenue (alterations and improvements).
 - Sewer in Twenty-second street, between First and Third avenues (alterations and improvements).
 - Sewer in Eldridge street, between Grand and Broome streets.
 - Sewer in Tenth avenue, between Seventy-seventh and Eighty-first streets (alterations and improvements).
 - Sewer in Fourth avenue, west side, between Ninety-ninth and One Hundred and Third streets.
 - Sewer in One Hundred and Sixty-fifth street, between Tenth avenue and Edgecombe road.
 - Sewer in Tenth avenue, east side, between One Hundred and Forty-seventh and One Hundred and Forty-ninth streets, etc.
 - Receiving-basin, northwest corner One Hundred and Forty-third street and Eighth avenue.
 - Receiving-basin northeast corner One Hundred and Thirty-third street and Seventh avenue.
- There are now in progress contracts for 26 sewers.
764 basins and 32,932 linear feet of sewer have been cleaned.

Yours, respectfully,
HORACE LOOMIS, Engineer in Charge of Sewers.

REPORT OF THE TRANSACTIONS OF THE OFFICE OF THE ENGINEER IN CHARGE OF SEWERS FOR THE QUARTER ENDING JUNE 30, 1889.

Credit to General Fund—	
Amount received for 354 permits for sewer connections.....	\$8,368 92
Engineers' Fees—	
Amount of Engineers' fees assessed on property benefited, and charged to Street Improvement Fund.....	\$2,942 27
Sewers—Repairing and Cleaning—	
Balance on hand March 31, 1889.....	\$143,498 12
Vouchers transmitted to the Commissioner of Public Works—	
Pay-roll of Laborers, etc.....	\$17,523 61
Repairs and Cleaning (under \$1,000).....	13,799 01
Materials and sundries.....	5,809 71
Balance on hand, June 30, 1889.....	106,365 79
	143,498 12
Sewers—Repairing and Cleaning for 1888—	
Balance on hand, March 31, 1889.....	\$10,334 63
Vouchers transmitted to the Commissioner of Public Works—	
Contracts.....	\$8,203 33
Balance on hand, June 30, 1889.....	2,131 30
	10,334 63
Salaries—Sewers—Repairing and Cleaning—	
Balance on hand March 31, 1889.....	\$7,530 02
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Inspectors, etc.....	\$2,469 98
Balance on hand, June 30, 1889.....	5,060 04
	7,530 02
Salaries—Sewerage System—	
Balance on hand March 31, 1889.....	\$12,641 29
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Engineers, etc.....	\$3,584 17
Balance on hand, June 30, 1889.....	9,057 12
	12,641 29
Salaries—Surveys, Maps, etc., for Street Openings and New Streets—	
Balance on hand March 31, 1889.....	\$8,322 11
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Draughtsmen, etc.....	\$2,743 64
Balance on hand, June 30, 1889.....	5,578 47
	8,322 11

Boring Examinations for Grading and Sewer Contracts—	
Balance on hand March 31, 1889.....	\$2,686 00
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Axemen, etc.....	\$1,004 00
Balance on hand, June 30, 1889.....	1,682 00
	2,686 00
Restoring and Repaving—Special Fund—	
Amount received for permits for street openings.....	\$7,018 50
Street Improvement Fund—	
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Engineers, etc.....	\$13,498 81
On contracts for sewers, etc.....	77,066 54
	\$90,565 35

- Work done by Mechanics and Laborers, etc.—
- 111 receiving-basins and culverts relieved.
 - 764 receiving-basins and culverts cleaned.
 - 32,932 lineal feet of sewer cleaned.
 - 1,175 lineal feet of sewer relieved.
 - 146 lineal feet of sewer rebuilt.
 - 176 lineal feet of sewer repaired.
 - 175 lineal feet of new sewer built.
 - 48 lineal feet of new culvert built.
 - 140 lineal feet of spur-pipe laid.
 - 131 lineal feet of new curb set.
 - 252 lineal feet of tile bottom built.
 - 7 receiving-basins repaired.
 - 10 receiving-basin heads reset.
 - 37 new basin-heads and covers put on.
 - 18 new basin covers put on.
 - 3 new manholes built.
 - 24 new manhole heads and covers put on.
 - 26 new manhole covers put on.
 - 149 manhole heads reset.
 - 125 square feet of rip-rap wall built.
 - 299 square feet brickwork built.
 - 745 square feet of flagging relaid.
 - 369 square yards of pavement relaid.
 - 342 cubic yards of earth excavated and refilled.
 - 2,121 cart-loads of dirt removed.

Document "G."

REPORT OF THE SUPERINTENDENT OF STREET IMPROVEMENTS.

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF STREET IMPROVEMENTS, ROOM 5, NO. 31 CHAMBERS STREET,
NEW YORK, July 1, 1889.

Hon. THOMAS F. GILROY, Commissioner of Public Works :

SIR—In compliance with your instructions, I have the honor to submit herewith my report of the transactions of the Bureau of Street Improvements for the quarter ending June 30, 1889.

On the commencement of the quarter 32 contracts were in existence, 12 new contracts were entered during the quarter and 15 contracts have been finished, leaving 29 contracts on July 1 unfinished. 5 contracts have been completed, but the final examinations have not yet been completed, viz. :

- Regulating, grading, etc., Twelfth avenue, from One Hundred and Thirty-third to One Hundred and Thirty-fifth street.
- Regulating, grading, etc., Eighty-seventh street, from West End avenue to Riverside Drive.
- Regulating, grading, etc., One Hundred and Fortieth street, from Tenth avenue to Boulevard.
- Flagging, etc., One Hundred and Eighteenth street, from Fifth to Lenox avenue.
- Flagging, etc., west side of Eighth avenue, from One Hundred and Twelfth to One Hundred and Thirteenth street.

The following are the most important unfinished contracts :

- Kingsbridge road, from One Hundred and Ninetieth street to Harlem river—
Since the commencement of the work (July, 1887), 11,000 yards of earth excavation, 26,000 yards of rock excavation, 55,000 yards of filling and 1,350 feet of culvert have been done. It will take yet one year to complete this contract.
 - Edgecombe avenue, from One Hundred and Forty-fifth street to St. Nicholas place—
This work was commenced in November, 1886, and the following amount of work has been done to date : 8,500 yards of earth excavation, 36,950 yards of rock excavation, 31,000 yards of filling finished, 22,675 yards of retaining wall, 2,185 feet of drain-pipe laid. This avenue will take about six months to complete.
 - First new avenue west of Eighth avenue, from One Hundred and Forty-fifth to One Hundred and Fifty-fifth street—
Work was commenced on this contract November, 1886, and 96,400 yards of filling have been placed on the avenue ; it requires yet about 5,000 yards of filling to finish the same. The contractor has commenced the setting of curb-stones. The work should be finished in about two months.
 - Fifth avenue, from One Hundred and Thirty-eighth street to Harlem river—
Work on this avenue was commenced in January of this year, and the contractor has placed so far 37,000 yards in the embankment. I expect the work to be finished in about three to four months.
 - Forty-ninth street retaining-wall, from First avenue to Beekman place—
This work I expect to be completed in about three to four weeks.
 - Ninety-second street, from Boulevard to Riverside Drive—
This contract was commenced in June, 1888, and 7,300 yards of earth and 14,800 yards of rock have been removed. It will take about three months to complete the work.
 - One Hundred and Sixth street, from Boulevard to Riverside Drive—
4,000 yards of earth and 3,600 yards of rock have been taken out of this street. The contract is a heavy rock cut, and it will take six to eight months to complete the same.
 - One Hundred and Seventh street, from West End avenue to Riverside Drive, One Hundred and Twenty-fourth street, from Ninth to Tenth avenue, One Hundred and Forty-eighth street, from Eighth to New avenue, One Hundred and Seventieth street, from Tenth to Eleventh avenue—
These four contracts are very near completion.
 - One Hundred and Ninth street, from Eighth to Manhattan avenue—
This is a heavy fill contract and will be completed in about four months.
- Work on the following contracts is being prosecuted with great vigor, viz. :
Ninety-first street, from Tenth to Ninth avenue.
One Hundred and Forty-seventh street, from Tenth avenue to Boulevard.
One Hundred and Forty-seventh street, from Eighth avenue to Harlem river.
One Hundred and Sixty-sixth street, from Tenth to Eleventh avenue.
One Hundred and Eighty-first street, from Tenth to Eleventh avenue.

Respectfully submitted,
W. M. DEAN, Superintendent of Street Improvements.

STATEMENT OF THE AMOUNT OF WORK DONE DURING THE QUARTER ENDING JUNE 30, 1889.

Earth excavation.....	cubic yards.	6,660
Rock excavation.....	"	18,617
Filling furnished.....	"	76,800
Curb-stones set.....	linear feet.	5,812 ⁵⁴ / ₁₀₀
" reset.....	"	2,326 ²³ / ₁₀₀
Flagging laid.....	square feet.	68,224 ⁸ / ₁₀₀
" relaid.....	"	6,720 ⁶⁰ / ₁₀₀
6-inch drain-pipe laid.....	linear feet.	250
Picket fence.....	"	73
Retaining-wall.....	cubic yards.	3,300

AMOUNT OF VOUCHERS DRAWN.	
On account of—	
Street Improvement Fund.....	\$77,913 41
Street Improvements—For Surveying, Monumenting and Numbering Streets....	262 50
Flagging Sidewalks and Fencing Vacant Lots in front of City Property.....	77 00
Contingencies of Department of Public Works.....	286 50
Repairs and Renewal of Pavements and Regrading.....	96 50
Total.....	\$78,635 91
APPROPRIATIONS.	
Street Improvements—For Surveying, Monumenting and Numbering of Streets.....	\$2,000 00
Amount of vouchers drawn during first quarter.....	\$262 50
Amount of vouchers drawn during second quarter.....	262 50
Outstanding liabilities.....	615 50
Balance (estimated).....	859 50
	2,000 00
Contingencies of Department of Public Works—	
Amount of vouchers drawn.....	\$286 50
Flagging Sidewalks and Fencing Vacant Lots in front of City Property.....	\$6,000 00
Amount of vouchers drawn.....	\$77 00
Balance.....	5,923 00
	6,000 00
Repairs and Renewal of Pavements and Regrading—	
Amount of voucher drawn.....	\$96 50

WORKS COMPLETED.	
Regulating, grading, etc.—	
Ninetieth street, Tenth avenue to Riverside Drive.....	\$3,222 48
One Hundred and Seventeenth street, Eighth to Ninth avenue.....	4,307 11
One Hundred and Forty-third street, Tenth avenue to Boulevard....	3,423 91
	\$10,953 50
Flagging—	
West side Park avenue, One Hundred and Thirteenth to One Hundred and Fourteenth street.....	\$270 96
East side Madison avenue, Eighty-eighth to Eighty-ninth street (estimated).....	796 61
West side Second avenue, One Hundred and Twenty-fifth to One Hundred and Twenty-eighth street.....	309 56
West side Third avenue, Eighty-seventh to Eighty-eighth street.....	525 71
East side Fifth avenue, Fifty-sixth to Fifty-seventh street (estimated).....	1,052 74
East side Fifth avenue, Eightieth to Eighty-first street.....	516 96
South side Fifty-fourth street, Eighth to Ninth avenue.....	1,664 66
South side Seventy-seventh street, Park to Madison avenue.....	319 62
Seventy-ninth street, Boulevard to Hudson river.....	7,103 50
One Hundred and Sixteenth street, Pleasant avenue to Harlem river.....	1,395 53
North side One Hundred and Twenty-first street, Lenox to Seventh avenue.....	187 49
	14,143 34
Fencing vacant lots—	
South side Seventy-seventh street, Madison to Park avenue.....	40 94
Total.....	\$25,137 78

Statement showing Works under Contract in Bureau of Street Improvements on the 30th day of June, 1889.

LOCATION OF WORK.	CONTRACTOR.	SURVEYOR.	INSPECTOR.	CONTRACT TIME.	ESTIMATED COST.	AMOUNT EARNED.	AMOUNT RETAINED.	AMOUNT PAID.	REMARKS.
<i>Regulating, Grading, Curbing, Flagging and Retaining Walls.</i>									
Street Improvement Fund—									
Kingsbridge road, One Hundred and Ninetieth street to Harlem river.....	B. F. Coleman.....	J. McI. Smith.....	William J. Girvan..	300 days.	\$204,990 00	\$76,950 00	\$23,085 00	\$53,865 00	
Edgecombe avenue, One Hundred and Forty-fifth street to St. Nicholas place.....	John F. Dawson.....	J. McI. Smith.....	Leander Buck.....	300 "	86,826 06	146,757 75	44,027 32	146,757 75	
Lenox avenue, One Hundred and Eleventh to One Hundred and Forty-third street.....	Thomas J. Dunn.....	M. A. Lacy.....	F. G. Fay.....	26 "	5,094 74				
First new avenue, One Hundred and Forty-fifth to One Hundred and Fifty-fifth street.....	William J. Kelly.....	J. McI. Smith.....	J. R. Mount.....	500 "	55,120 00	45,308 00	13,592 40	31,715 60	
Fifth avenue, One Hundred and Thirty-eighth street to Harlem river.....	Jerome Finn.....	J. R. Wardlaw.....	B. V. Fraser.....	500 "	18,817 24				
Twelfth avenue, One Hundred and Thirty-third to One Hundred and Thirty-fifth street.....	M. Fortunato.....	Frank E. Towle.....		250 "	7,587 20				{ Work completed but not yet accepted.
Forty-ninth street, First avenue to Beekman place.....	John J. Rogers.....	J. R. Wardlaw.....	P. Kelly.....	90 "	13,774 10	13,040 60	3,912 18	9,128 42	
Eighty-seventh street, West End avenue to Riverside Drive.....	John B. Devlin.....	W. H. McDonough.....		60 "	6,249 10	4,611 00	1,383 30	3,227 70	Work completed but not yet accepted.
Eighty-ninth and Ninetieth streets, Second to Third avenue.....	J. T. McDonald.....	F. E. Towle.....	J. Lawrence.....	9 "	1,368 50				
Ninety-first street, Ninth to Tenth avenue.....	M. Fortunato.....	Richard Amerman.....	P. C. McGuire.....	100 "	13,222 10	3,311 36	993 40	2,317 96	
Ninety-second street, Boulevard to Riverside Drive.....	J. J. Farley.....	W. H. McDonough.....	R. V. Davis.....	300 "	40,018 36	22,150 00	6,645 00	15,505 00	
Ninety-fourth street, First to Second avenue.....	J. T. McDonald.....	Frank E. Towle.....	G. Stebbins.....	17 "	2,910 46				
One Hundred and Sixth street, Boulevard to Riverside Drive.....	J. Canill.....	Robert L. Waters.....	William F. Gannon..	150 "	22,360 35	5,128 00	1,538 40	3,589 60	
One Hundred and Seventh street, West End avenue to Riverside Drive.....	P. McInerney.....	Frank E. Towle.....	Thomas P. Moore..	100 "	5,692 40	3,100 00	930 00	2,170 00	
One Hundred and Ninth street, Eighth to Manhattan avenue.....	J. J. Farley.....	Thomas J. Slator.....	J. McShane.....	40 "	4,084 08				
One Hundred and Twenty-fourth street, Ninth to Tenth avenue.....	J. Phelan.....	M. A. Lacy.....	M. Neary.....	150 "	3,850 28				
One Hundred and Fortieth street, Tenth avenue to Boulevard.....	M. Fortunato.....	W. H. McDonough.....		100 "	8,723 95	6,932 55	2,079 77	4,852 78	Work completed but not yet accepted.
One Hundred and Forty-seventh street, Tenth avenue to Boulevard.....	M. Fortunato.....	M. A. Lacy.....	J. McCue.....	150 "	15,576 52	5,522 50	1,656 75	3,865 75	
One Hundred and Forty-seventh street, Eighth avenue to Harlem river.....	Charles V. Hough.....	Richard Amerman.....	J. Smith.....	150 "	14,228 13	4,502 00	1,350 60	3,151 40	
One Hundred and Forty-eighth street, Eighth to New avenue.....	J. J. Hopper.....	Robert L. Waters.....	D. Simmons.....	120 "	3,154 24				
One Hundred and Sixty-sixth street, Tenth to Eleventh avenue.....	F. Thieleman, Jr.....	Frank E. Towle.....	Thomas W. Gibbons	250 "	8,633 75				
One Hundred and Seventieth street, Tenth to Eleventh avenue.....	Newell & Freligh.....	M. A. Lacy.....	E. C. Brady.....	130 "	9,278 28	7,169 50	2,150 85	5,018 65	
One Hundred and Eighty-first street, Tenth to Eleventh avenue.....	W. G. Leeson.....	Robert L. Waters.....	S. Bennett.....	150 "	14,147 25				
<i>Special Contracts.</i>									
Flagging, etc.—									
East side Lenox avenue, One Hundred and Forty-third to One Hundred and Forty-sixth street.....	P. H. Kerwin.....	F. E. Towle.....	D. O'Connor.....	10 "	50 08				{ Work completed but not yet accepted.
West side Eighth avenue, One Hundred and Twelfth to One Hundred and Thirtieth street.....	P. H. Kerwin.....	G. M. Root.....		10 "	131 29				Work suspended.
South side Eighty-third street, Ninth to Tenth avenue.....	P. H. Kerwin.....	W. H. Bostwick.....		10 "	635 76				Work completed but not yet accepted.
One Hundred and Eighteenth street, Fifth to Lenox avenue.....	P. H. Kerwin.....	M. A. Lacy.....		7 "	375 49				
Fencing Vacant Lots—									
One Hundred and Seventh and One Hundred and Eighth streets, Eighth to Manhattan avenue.....	Bernard A. Roth.....	Robert L. Waters.....		10 "	592 00				Work not yet commenced.
<i>Flagging Sidewalks and Fencing Vacant Lots in front of City Property.</i>									
Centre, Broome, Centre Market place and Grand streets.....	W. H. Hornidge.....	Charles H. Bull.....	B. Martin.....	8 "	1,114 25				
Totals..					\$568,930 87	\$344,483 26	\$103,344 97	\$241,138 29	

Document "H."

REPORT OF THE SUPERINTENDENT OF STREETS.

DEPARTMENT OF PUBLIC WORKS, BUREAU OF STREETS AND ROADS, ROOM 12, NO. 31 CHAMBERS STREET, NEW YORK, June 29, 1889.

THOMAS F. GILROY, Esq., Commissioner of Public Works:

SIR—In compliance with your instructions, I herewith submit the following report of work done and material used; also, the amount expended from the various appropriations under the charge of this Bureau, viz.: For "Boulevards, Roads and Avenues, Maintenance of," "Roads, Streets and Avenues Unpaved, Maintenance of and Sprinkling," and "Boulevards, Roads and Avenues, Maintenance of—Salaries"; also, the amount drawn against the Street Improvement Fund for the quarter ending June 30, 1889.

There are now in charge of the Bureau 23.78 miles equal to 867,762 square yards of macadam pavement. Many of the roadways were constructed over twenty years ago, and were never calculated to bear the continuous and heavy traffic to which at the present day they are subjected. At the time of their construction, there were very few buildings erected on the line or in the immediate vicinity of avenues that have of recent years become the main line of traffic. The extensive building operations during the past few years have to a great extent been the cause of the increased heavy trucking, the drivers of such vehicles preferring this class of road to the stone pavement, which causes rapid and serious wear to the wheelways. As an instance, upward of 12,000 vehicles pass over Seventh avenue alone on a pleasant day either in the spring or fall. The actual account taken in November, 1886 for 70 hours showed that about 69,000 vehicles passed over Seventh avenue at One Hundred and Twenty-fifth street. Macadam roadways are not calculated to stand this strain and, as the result proves, Sixth and Seventh avenues begin to show serious breaks in the pavements. I have given directions to the Foreman in charge to make the necessary repairs as soon as the material which has been ordered is received. But a short time must elapse when these avenues will require entire resurfacing. Most of the important driveways have been covered during the quarter with new gravel and are now in excellent condition. The Boulevard requires considerable repairs, and it is my judgment that this thoroughfare, between Fifty-ninth and One Hundred and Tenth streets, should be paved with block pavement. First avenue, between Fifty-seventh and Eighty-sixth streets, should also be paved with block pavement, this avenue being almost exclusively used for heavy trucking. One Hundred and Twenty-fourth street, between Pleasant and Fifth avenues, would also be improved by block pavement as the travel in the street does not warrant the continuance of macadam pavement. St. Nicholas avenue is in very fine condition, new gravel having been spread over the surface on the crown, between One Hundred and Twenty-fifth and One Hundred and Forty-fifth streets, and on the west side between One Hundred and Tenth and One Hundred and Thirteenth streets, the roadway has been entirely resurfaced. Especial care and attention has been paid to the sprinkling of these thoroughfares; the vast quantity of water used will give a partial idea of the amount of work done. I would also recommend that wherever the trees are dead or unhealthy on the line of the macadam pavement, new ones

be planted. The longer this work is delayed the greater will be the difference in size, thus destroying uniformity and to a great extent the beauty of the avenues. Additional receiving-basins should be constructed in nearly all the flat roadways, as the means are not at present sufficient to adequately drain the same.

Respectfully, GEO. E. BABCOCK, Superintendent of Streets.

The following statement shows the amount and class of work done on "Boulevards, Roads and Avenues—Maintenance" during the quarter ending June 30, 1889:

Roadway and gutters cleaned.....	1,187,446 square yards.
Gutters cleaned.....	90,195 "
Roadway repaired with gravel.....	23,602 "
Gravel bank screenings spread.....	346,912 "
Macadam pavement repaired.....	6,133 "
Lime-stone screenings spread.....	5,243 "
Sidewalks cleaned.....	12,100 "
Block pavement relaid.....	2 "
Bridge-stone relaid.....	32 square feet.
Flagging relaid.....	29,517 "
Curb reset.....	50 lineal feet.
Gutter-stone relaid.....	41 "
Trees cultivated.....	327 "
Trees trimmed.....	364 "
Basins cleaned.....	26 "
Places repaired on sidewalks.....	25 "
In making the above repairs the following material was used:	
Broken stone.....	583 truck-loads.
Trap-rock screenings.....	216 "
Gravel bank screenings.....	2,398 "
Gravel.....	1,135 "
Telford.....	30 "
Sweepings.....	11 "
Lime-stone screenings.....	74 "
Dirt.....	445 "
Stone.....	6 "

There were also 998 loads of gravel bank screenings hauled and rehandled by employees of the Bureau.

The following material was removed from the macadamized roadways: Dirt..... 4,120 truck-loads. Stone..... 6 " Basin dirt..... 33 " —861 truck-loads of dirt were deposited on the Street Cleaning Department scows.

Document "I."

REPORT OF THE SUPERINTENDENT OF LAMPS AND GAS.

DEPARTMENT OF PUBLIC WORKS—BUREAU OF LAMPS AND GAS, }
ROOM 11, No. 31 CHAMBERS STREET, }
NEW YORK, July 5, 1889.

Hon. THOMAS F. GILROY, Commissioner of Public Works:

SIR—Herein I submit a report of the transactions of the Bureau of Lamps and Gas for the quarter ending June 30, 1889:

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

Exhibit "B" is a summary of the appropriation for "Lamps and Gas and Electric Lighting," showing an expenditure during the quarter of one hundred and seventy-six thousand three hundred and thirty-eight dollars and fifty-six cents (\$176,338.56), with liabilities amounting to sixty-nine thousand four hundred and ninety-one dollars and twelve cents (\$69,491.12), leaving an available balance of three hundred and fifty-five thousand and sixty-two dollars and sixty-four cents (\$355,062.64).

Exhibit "C" is a summary of the appropriation for "Lamps and Gas and Electric Lighting—Salaries," showing an expenditure during the quarter of fifteen hundred and forty-one dollars and sixty-two cents (\$1,541.62), leaving an available balance of thirty-three hundred and thirty-three dollars and forty-three cents (\$3,333.43).

Exhibit "D" is a summary of the "Lamp Account," showing the number of new lamps lighted, old lamps relighted and lamps discontinued by each gas and electric-light company during the quarter; a total of one hundred and thirty-five new gas-lamps having been fitted-up and lighted, eight hundred and sixty-eight gas-lamps relighted, sixteen electric-lamps relighted, two hundred and thirteen gas-lamps discontinued, and one hundred and fifty-seven electric-lamps discontinued on account of cutting the wires. The net increase of the public lamps during the quarter was six hundred and forty-nine.

Exhibit "E" is a statement showing the lowest, highest and average illuminating power of the gases supplied to the city by the several gas companies within reach of our photometrical stations.

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

Table with 4 columns: OF WHAT COMPANY, SULPHUR (Grs. in 100 cu. ft.), AMMONIA (Grs. in 100 cu. ft.), SULPHURETED HYDROGEN. Rows include Consolidated Gas Co. branches 1-6, New York Mutual Gas-light Co., and Equitable Gas-light Co.

The following is the specific gravity of the gases:

Table with 2 columns: OF WHAT COMPANY, specific gravity. Rows include Consolidated Gas Co. branches 1-6, New York Mutual Gas-light Co., and Equitable Gas-light Co.

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

Table with 5 columns: OF WHAT COMPANY, AVERAGE MAXIMUM PRESSURE, AVERAGE MINIMUM PRESSURE, WHERE TAKEN, DISTANCE FROM GAS-WORKS. Rows include Consolidated Gas Co. branches 1-6, New York Mutual Gas-light Co., and Equitable Gas-light Co.

Contracts for lighting the public gas-lamps, from May 1, 1889, to April 30, 1890, have been executed, as follows:

Table with 2 columns: Company Name, Amount. Rows include Equitable Gas-light Co., Consolidated Gas Co., N. Y. Mutual Gas-light Co., Central Gas-light Co., Northern Gas-light Co., Yonkers Gas-light Co., and N. Y. and N. J. Globe Gas-light Co.

The prices paid during the preceding year were as follows:

Table with 2 columns: Company Name, Price per year for each lamp. Rows include Equitable Gas-light Co., Consolidated Gas Co., N. Y. Mutual Gas-light Co., Central Gas-light Co., Northern Gas-light Co., Yonkers Gas-light Co., and N. Y. and N. J. Globe Gas-light Co.

Proposals for electric-lighting were received on March 27, rejected by the Gas Commission on June 17, and new bids asked for to be received on July 2.

Yours, respectfully,

S. McCORMICK, Superintendent of Lamps and Gas.

EXHIBIT "A."

Statement showing the Amounts on Vouchers drawn for Gas to the various Public Markets, Armories, etc., and for Fitting-up, Maintaining and Lighting the Public Lamps, etc., for the Quarter ending June 30, 1889:

Table with 2 columns: Market Name, Amount. Rows include Washington Market, Catharine Country Market, Catharine Meat Market, Fulton Meat Market, Fulton Country Market, Essex Market, Centre Market, Clinton Market, Union Market, and Tompkins Market.

Table with 2 columns: Location/Department, Amount. Rows include Jefferson Market, Police Courts, Civil Courts, Court of Special Sessions, various buildings, City Hall, Corporation Counsel's Office, Board of Assessors, Department of Public Works, Department of Taxes, City Record Bookbindery, Register's Office, County Jail, various yards and shops, Engine-house, Clock-tower, New York City Civil Service Board, Dog Pound, Bureau of Streets and Roads, Photometrical Rooms, Seventh Regiment Armory, etc.

\$9,250 99

Table with 2 columns: Description, Amount. Rows include Gas examinations, Lighting public markets, Cleaning Photometrical Rooms, New lamp-posts, New lamp-posts, Twenty-third and Twenty-fourth Wards, New street-lamps, New street-lamps, Twenty-third and Twenty-fourth Wards, New Boulevard lamps, New crossheads, New street signs, Supplies for Photometrical Rooms, Cartages, Rent of Photometrical Rooms, etc.

167,087 57

Table with 2 columns: Description, Amount. Rows include Inspectors of Lamps, etc. (Pay-rolls), Total.

\$176,338 56

1,541 62

\$177,880 18

RECAPITULATION.

Table with 2 columns: Description, Amount. Rows include Gas to Public Offices, Supplies to public lamps, Fitting-up new lamps, Resetting and repairing lamp-posts, Lighting public lamps, etc.

Total \$177,880 18

EXHIBIT "B."

Summary of the Appropriation for "Lamps and Gas and Electric Lighting," showing the Amount Expended during the Quarter ending June 30, 1889, with the Balance standing to the Credit of the Appropriation.

Table with 2 columns: Description, Amount. Rows include Amount appropriated for "Lamps and Gas and Electric Lighting," 1889, Amount expended during the quarter ending March 31, Amount expended during the quarter ending June 30.

275,446 24

Balance against which no vouchers have been drawn \$424,553 76

LIABILITIES.

Table with 2 columns: Description, Amount. Rows include Consolidated Gas Co., lighting public lamps, month of June, Equitable Gas-light Co., New York Mutual Gas-light Co., Central Gas-light Co., Northern Gas-light Co., Yonkers Gas-light Co., New York and New Jersey Globe Gas-light Co., lighting public lamps, month of June, Brush Electric Illuminating Co., lighting electric-lamps, United States Illuminating Co., East River Electric-light Co., Harlem Lighting Co.

Mount Morris Electric-light Co., lighting electric-lamps.....	\$351 36
North New York Lighting Co.,	555 10
Matthews Decorative Glass Co., 1,000 glass street signs.....	187 50
C. Birdsall, cartages	100 00
E. P. Gleason Mfg. Co., 200 street lamps	488 00
John Fox, 75 lamp-posts.....	590 00
J. B. & J. M. Cornell, 500 lamp irons	245 00
Bartlett Lamp Mfg. Co., 300 Boulevard globes.....	600 00
John Millis, electric-light examinations	500 00
	<u>\$69,491 12</u>
Balance available June 30, 1889	\$355,062 64

EXHIBIT "C."

Summary of the Appropriation for "Lamps and Gas and Electric Lighting—Salaries," showing the Amount Expended during the Quarter ending June 30, 1889, with the Balance standing to the Credit of the Appropriation.

Amount appropriated for "Lamps and Gas and Electric Lighting—Salaries, 1889" ..	\$6,500 00
Amount expended during the quarter ending March 31.....	1,624 95
Amount expended during the quarter ending June 30.....	1,541 62
	<u>3,166 57</u>
Balance available June 30, 1889	\$3,333 43

EXHIBIT "D."

Summary of the "Lamp Account," showing the Number of New Lamps Lighted, Old Lamps Relighted and Lamps Discontinued by each Gas and Electric-light Company during the Quarter ending June 30, 1889.

CONSOLIDATED GAS COMPANY, BRANCH 1.		
Number of lamps lighted March 31, 1889.....	2,928	
Number of new lamps lighted during the quarter.....	0	
Number of old lamps relighted during the quarter.....	1	2,929
Less lamps discontinued during the quarter.....	7	
Less lamps discontinued on account of electric-lights.....	0	
Less lamps transferred to Equitable Gas-light Company.....	223	230
Number of lamps lighted June 30, 1889		2,699
CONSOLIDATED GAS COMPANY, BRANCH 2.		
Number of lamps lighted March 31, 1889.....	1,629	
Number of new lamps lighted during the quarter.....	1	
Number of old lamps relighted during the quarter.....	139	1,769
Less lamps discontinued during the quarter.....	48	
Less lamps discontinued on account of electric-lights.....	0	
Less lamps transferred to Equitable Gas-light Co.....	171	219
Number of lamps lighted June 30, 1889.....		1,550
CONSOLIDATED GAS COMPANY, BRANCH 3.		
Number of lamps lighted March 31, 1889.....	2,457	
Number of new lamps lighted during the quarter.....	0	
Number of old lamps relighted during the quarter.....	81	2,538
Less lamps discontinued during the quarter.....	5	
Less lamps discontinued on account of electric-lights.....	0	
Less lamps transferred to Equitable Gas-light Co.....	299	304
Number of lamps lighted June 30, 1889		2,234
CONSOLIDATED GAS COMPANY, BRANCH 4.		
Number of lamps lighted March 31, 1889	2,997	
Number of new lamps lighted during the quarter.....	41	
Number of old lamps relighted during the quarter.....	320	3,358
Less lamps discontinued during the quarter.....	93	
Less lamps discontinued on account of electric-lights.....	0	
Less lamps transferred to Equitable Gas-light Co.....	281	374
Number of lamps lighted June 30, 1889.....		2,984
CONSOLIDATED GAS COMPANY, BRANCH 6.		
Number of lamps lighted March 31, 1889.....	5,683	
Number of new lamps lighted during the quarter.....	16	
Number of old lamps relighted during the quarter.....	75	5,774
Less lamps discontinued during the quarter.....	20	
Number of lamps lighted June 30, 1889		5,754
Total number of lamps lighted by Consolidated Gas Company, June 30, 1889		15,221
NEW YORK MUTUAL GAS-LIGHT COMPANY.		
Number of lamps lighted March 31, 1889	146	
Number of new lamps lighted during the quarter.....	0	
Number of old lamps relighted during the quarter.....	135	281
Less lamps discontinued during the quarter.....	1	
Less lamps discontinued on account of electric-lights.....	0	
Less lamps transferred to Equitable Gas-light Co.....	4	5
Number of lamps lighted June 30, 1889.....		276
EQUITABLE GAS-LIGHT COMPANY.		
Number of lamps lighted March 31, 1889	1,930	
Number of new lamps lighted during the quarter.....	5	
Number of old lamps relighted during the quarter.....	99	
Number of lamps transferred from Consolidated Gas Co.....	974	
Number of lamps transferred from New York Mutual Gas-light Co.....	4	
Less lamps discontinued during the quarter.....	32	3,012
Less lamps discontinued on account of electric-lights.....	0	
Number of lamps lighted June 30, 1889		2,980

CENTRAL GAS-LIGHT COMPANY.		
Number of lamps lighted March 31, 1889.....	2,400	
Number of new lamps lighted during the quarter.....	66	
Number of old lamps relighted during the quarter.....	18	2,484
Less lamps discontinued during the quarter.....	7	
Number of lamps lighted June 30, 1889		2,477
NORTHERN GAS-LIGHT COMPANY.		
Number of lamps lighted March 31, 1889.....	2,112	
Number of new lamps lighted during the quarter.....	4	
Number of old lamps relighted during the quarter.....	0	2,116
Less lamps discontinued during the quarter.....	0	
Number of lamps lighted June 30, 1889		2,116
YONKERS GAS-LIGHT COMPANY.		
Number of lamps lighted March 31, 1889	449	
Number of new lamps lighted during the quarter.....	2	
Number of old lamps relighted during the quarter.....	0	451
Less lamps discontinued during the quarter.....	0	
Number of lamps lighted June 30, 1889		451
Total number of gas-lamps lighted June 30, 1889.....		23,521
NAPHTHA-LAMPS.		
NEW YORK AND NEW JERSEY GLOBE GAS-LIGHT COMPANY.		
Number of lamps lighted March 31, 1889	120	
Number of new lamps lighted during the quarter.....	0	
Number of old lamps relighted during the quarter.....	0	120
Less lamps discontinued during the quarter.....	0	
Number of lamps lighted June 30, 1889		120
Total number of naphtha lamps lighted June 30, 1889		120
ELECTRIC-LAMPS.		
BRUSH ELECTRIC ILLUMINATING COMPANY.		
Number of lamps lighted March 31, 1889	367	
Number of new lamps lighted during the quarter.....	0	
Number of old lamps relighted during the quarter.....	0	367
Less lamps discontinued during the quarter on account of cutting the wires.....	124	
Number of lamps lighted June 30, 1889		243
UNITED STATES ILLUMINATING COMPANY.		
Number of lamps lighted March 31, 1889	417	
Number of new lamps lighted during the quarter.....	0	
Number of old lamps relighted during the quarter.....	8	425
Less lamps discontinued during the quarter.....	0	
Number of lamps lighted June 30, 1889		425
HARLEM LIGHTING COMPANY.		
Number of lamps lighted March 31, 1889	101	
Number of new lamps lighted during the quarter.....	0	
Number of old lamps relighted during the quarter.....	0	101
Less lamps discontinued during the quarter on account of cutting the wires.....	15	
Number of lamps lighted June 30, 1889		86
MOUNT MORRIS ELECTRIC-LIGHT COMPANY.		
Number of lamps lighted March 31, 1889.....	18	
Number of new lamps lighted during the quarter.....	0	
Number of old lamps relighted during the quarter.....	0	18
Less lamps discontinued during the quarter.....	0	
Number of lamps lighted June 30, 1889.....		18
NORTH NEW YORK LIGHTING COMPANY.		
Number of lamps lighted March 31, 1889	26	
Number of new lamps lighted during the quarter.....	0	
Number of old lamps relighted during the quarter.....	0	26
Less lamps discontinued during the quarter.....	0	
Number of lamps lighted June 30, 1889.....		26
EAST RIVER ELECTRIC-LIGHT COMPANY.		
Number of lamps lighted March 31, 1889.....	401	
Number of new lamps lighted during the quarter.....	8	
Number of old lamps relighted during the quarter.....	0	409
Less lamps discontinued during the quarter on account of cutting the wires.....	18	
Number of lamps lighted June 30, 1889.....		391
Total number of electric-lamps lighted June 30, 1889.....		1,189
RECAPITULATION FOR QUARTER.		
Number of gas-lamps lighted March 31, 1889	22,731	
Number of naphtha-lamps lighted March 31, 1889.....	120	
Number of electric-lamps lighted March 31, 1889.....	1,330	24,181
Number of new gas-lamps lighted during the quarter.....	135	
Number of new naphtha-lamps lighted during the quarter.....	0	
Number of new electric-lamps lighted during the quarter.....	0	135
Number of gas-lamps relighted during the quarter.....	868	
Number of naphtha-lamps relighted during the quarter.....	0	
Number of electric-lamps relighted during the quarter.....	16	884
Less gas-lamps discontinued during the quarter.....	213	
Less gas-lamps discontinued on account of electric-lights.....	0	
Less naphtha-lamps discontinued during the quarter.....	0	
Less electric-lamps discontinued during the quarter on account of cutting the wires.....	157	370
Total number of lamps lighted June 30, 1889.....		24,830

Plans and specifications have been made for paving the plaza in front of the City Hall with concrete blocks. These have been approved and are in the hands of the printer; the work will be advertised in a few days. This work will complete the improvements in front of the City Hall, and will add much to the appearance of the building.

FREE FLOATING BATHS.

The 13 free baths in charge of this Bureau have been thoroughly cleaned, repaired, painted and equipped for the season of 1889. 8 new pontoons have been built to replace old ones unfit for further service, and 84 pontoons have been overhauled, repaired and calked.

The approaches to the baths have been carefully reconstructed and new rails have been placed along the string-pieces of the docks as safeguards against accident which might be caused by the passing to and fro of the large number of bathers who patronize these baths.

Twelve of the new baths are now open for the public use, and one is ready for service and will be moored as soon as the Department of Docks assign it the position provided by law.

The requirement that men and boys over fifteen years of age are obliged to provide themselves with bathing dresses and wear them while in the water, is being enforced.

The following statement will show the location of, and date on which each bath was opened:

Battery bath	June 12, 1889.
East river—	
Stanton street	“ 13, “
Corlears street	“ 15, “
Thirty-seventh street	“ 17, “
Nineteenth street	“ 18, “
Fifty-first street	“ 20, “
One Hundred and Thirty-eighth street	“ 23, “
One Hundred and Twelfth street	“ 30, “
North river—	
Horatio street	“ 14, “
Duane street	“ 16, “
Fifty-first street	“ 24, “
Twenty-seventh street	“ 26, “

The number of bathers in the free baths from the commencement of the season to date, is estimated as follows:

LOCATION OF BATHS.	MALES.	FEMALES.	TOTAL.
Battery bath, East river	38,500	16,000	54,500
Stanton street, East river	30,000	14,000	44,000
Corlears street, East river	27,000	12,000	39,000
Nineteenth street, East river	12,000	5,000	17,000
Thirty-seventh street, East river	15,400	7,000	22,400
Fifty-first street, East river	9,000	4,000	13,000
One Hundred and Twelfth street, East river	2,000	1,000	3,000
One Hundred and Thirty-eighth street, East river	4,500	2,000	6,500
Duane street, North river	16,000	6,000	22,000
Horatio street, North river	18,000	7,000	25,000
Twenty-seventh street, North river	2,000	1,000	3,000
Fifty-first street, North river	10,000	4,000	14,000
Total	184,400	79,000	263,400

In compliance with chapters 402 and 411, Laws of 1888, providing for the construction of two free baths, an Architect was appointed September 26, 1888, to prepare working drawings and specifications from sketches furnished him by this Bureau. March 12, 1889, the work was advertised; on March 25, 1889, the contract was let and awarded to Thomas J. Sheridan and signed by him on April 1, 1889. The terms of the contract provides that the work of construction shall be fully completed in 90 days from the date notice shall have been given to the contractor to begin work.

Very respectfully,
W. G. BERGEN, Superintendent of Bureau of Repairs and Supplies.

Document "L."

REPORT OF THE SUPERINTENDENT OF INCUMBRANCES.

DEPARTMENT OF PUBLIC WORKS—BUREAU OF INCUMBRANCES,
NO. 31 CHAMBERS STREET,
NEW YORK, July 3, 1889.

Hon. THOMAS F. GILROY, Commissioner of Public Works:

DEAR SIR—I have the honor to make the following report of the business of this Bureau for the quarter ending June 30, 1889 (months of April, May and June, 1889):

1,341 complaints of obstructions received and attended to.	
1,753 seizures and removals of obstructions made.	
2,415 building permits issued.	
368 miscellaneous permits issued.	
3 permits issued to cut down shade trees.	
256 notices issued to repair defective sidewalks.	
2 notices issued to repair defective vault covers.	
Expense of seizing and removing 1,753 articles, including 79 loads of dirt, stone, refuse, etc., and 148 dead and dangerous trees, stumps, etc., also 941 telegraph poles and 4,214,861 lineal feet of telegraph and electric-light wire	\$13,407 81
Total expenses for the quarter	\$15,065 59
Received from owners for the redemption of seized articles	\$688 00
Received from public sale of unredeemed goods, etc., May 9, 1889	739 85
Total	\$1,427 85
All of which was duly paid over to the City Chamberlain.	
Salary account—Appropriation	\$8,400 00
Expended up to June 30, 1889	3,582 76
Balance	\$4,817 24
Appropriation for the removal of obstructions in streets and avenues, including rents for corporation yards	\$22,000 00
By transfer from several appropriations of 1888	21,771 04
Amount expended up to June 30, 1889	\$43,771 04
Balance	20,318 27
Total	\$23,452 77

Respectfully,
MICHAEL F. CUMMINGS, Superintendent of Incumbrances.

Document "M."

REPORT OF THE WATER REGISTER.

BUREAU OF WATER REGISTER, NO. 31 CHAMBERS STREET,
NEW YORK, June 30, 1889.

Hon. THOMAS F. GILROY, Commissioner of Public Works:

SIR—I herewith transmit statement of moneys received for water rents, penalties and taps, for the quarter ending June 30, 1889:

	Principal.	Penalties.	Taps.
April	\$153,858 41	\$1,006 35	\$1,259 00
May	266,371 36	392 25	1,252 50
June	264,759 64	270 75	1,110 00
Total	\$684,989 41	\$1,669 35	\$3,621 50

Deposit to the credit of "Water-meter Fund, No. 2"—			
April			\$1,784 52
May			505 86
June			300 81
Total			\$2,651 19

"Special Fund—Repairing Streets"—			
April			\$1,057 00
May			1,182 00
June			922 00
Total			\$3,161 00

Respectfully submitted,
JOSEPH RILEY, Water Register.

DEPARTMENT OF DOCKS.

At a special meeting of the Board of Docks, held August 6, 1889.
Present—Commissioners Post and Cram; absent, Commissioner Matthews.
The communication from Richard A. Storrs, Deputy Comptroller, in reference to the substitution of Victor Vierow in place of John F. Baxter, as surety to the estimate of the Union Dredging Company for dredging the slip at Piers, new 44, 45 and 46, North river, under Contract No. 307, was, on motion, ordered to be placed on file, and the following resolution adopted:
Resolved, That permission be and hereby is granted to the substitution of Victor Vierow as surety, in place of John F. Baxter, on the estimate of the Union Dredging Company for dredging at Piers, new 44, 45 and 46, North river, under Contract No. 307.
On motion, the Board adjourned.

G. KEMBLE, Secretary.

At a meeting of the Board of Docks, held August 8, 1889.
Present—Commissioners Post, Matthews and Cram.
The minutes of the meetings held August 1 and 2, 1889, were read and approved.
The following communications were received, read, and, on motion, ordered to be placed on file, action being taken where necessary, as stated, to wit:
From Engineer-in-Chief:
1st. Reporting non-commencement of dredging in the half slip adjoining the north side of Pier, new 39, and the south side of Pier, new 40, North river, and the non-removal of the sand dumped from scow "Leford" at the foot of Thirtieth street, East river.
2d. Reporting non-removal of cement dumped from lighter "Suffolk" near the foot of One Hundred and Twenty-third street, Harlem river. Referred to the Counsel to the Corporation with a statement of the facts in connection therewith, and request his opinion as to the ownership of the cement in question.
3d. Partial report on Secretary's Order No. 9247, in relation to the condition of and the dredging required at Piers, old 33 and 34, East river.
The following communications were received, read, and, on motion, ordered to be placed on file, action being taken where necessary, as stated, to wit:
From Counsel to the Corporation—Approving form of Contract No. 308 for repairing the crib-bulkhead between Piers, old 57 and 58, North river.
From Richard A. Storrs, Deputy Comptroller—Approving sureties of the Union Dredging Company for dredging at Piers, new 44, 45 and 46, North river, under Contract No. 307.
From Department of Street Cleaning—Reporting dangerous hole in the bulkhead foot of Forty-third street, East river. Referred to Engineer-in-Chief to examine and report.
From Morris & Cuming Dredging Company—Requesting permission to dredge the slips between Piers, new 32 and old 43, East river, to obtain additional depth of water over the site of the Sectional docks. The action of the President in issuing a permit, the work to be done under the direction and supervision of the Engineer-in-Chief, was approved.
From New England Terminal Company—Accepting the terms and conditions of the resolutions adopted August 1, 1889, for the erection of a shed on Piers, new 36 and old 45, East river, and stating that the detailed drawings called for are now being prepared and will shortly be submitted.
From Stephen H. Mills—Requesting permission to drive one oak fender-pile in place of one broken on Pier 23, East river. The action of the President in issuing a permit, the work to be done under the direction and supervision of the Engineer-in-Chief, was approved.
From William P. Clyde and Company—Requesting permission to replace three oak fender-piles on Pier 28, East river. The action of the President in issuing a permit, the work to be done under the direction and supervision of the Engineer-in-Chief, was approved.
From David Whipple, agent—Requesting permission to drive a new spring oak pile in place of one broken on Pier 13, East river. The action of the President in issuing a permit, the work to be done under the direction and supervision of the Engineer-in-Chief, was approved.
From New York Floating Dry Dock Company—Requesting permission to put in six mooring-posts and drive about twelve fender-piles on Pier 42, East river, inside of existing lines. The action of the President in issuing a permit, the work to be done under the direction and supervision of the Engineer-in-Chief, was approved.
From Austin, Baldwin & Co., Agents of the State Steamship Company—Respecting obstructions on the north side of Pier, new 34, North river. The action of the President in replying thereto was approved.
From A. Van Santvoord and H. P. Farrington—Agreeing to the terms and conditions of the resolution adopted August 1, 1889, giving them license and consent to sublet the one-half of Pier to be constructed at or near the foot of Vestry street, North river.
From Brooklyn and New York Ferry Company—Requesting permission to dredge out at foot of East Twenty-third street, as shown on diagram, and repair racks and docks foot of Roosevelt street, Grand street and East Twenty-third street, for a period of three months. The action of Commissioner Cram in issuing permits, the work to be done under the direction and supervision of the Engineer-in-Chief, the repairing to be done on same conditions as previously granted, was approved.
From Henry B. Turner—Requesting permission to dredge in front of the bulkhead at Twenty-second street, East river. Permit granted, the work to be done under the direction and supervision of the Engineer-in-Chief.
From E. Abeel, Dock Master—Reporting that the hole in the bulkhead, between Piers 43 and 44, East river, has not been repaired and is getting larger. The action of the President in directing the Engineer-in-Chief to examine and report was approved.
From Charles H. Thompson, Dock Master:
1st. Reporting that the backing-log at outer end of Pier 13, East river, needs repairing.
2d. Reporting that repairs are required to the sheathing on the easterly side of Pier 12, East river.
3d. Reporting that there is a hole in the paving of the approach to Pier, old 6, East river.
The action of the President in notifying the alleged owners to repair Piers 12 and 13, East river, and the lessees to repair paving on approach to Pier, old 6, East river, under the direction and supervision of the Engineer-in-Chief of this Department, was approved.
From James D. Leary—Requesting permission to put on about seven long fenders, butted on the structure owned by John H. Cheever, foot of Railroad avenue, Harlem river. Permission granted; the work to be done under the direction and supervision of the Engineer-in-Chief of this Department.

From Engineer-in-Chief:
1st. Reporting assignment of employes to special duty.
2d. Reporting the amount of work done during the week ending August 3, 1889.

3d. Reporting the falling down of rip-rap at approach to Pier at Fifty-first street, East river. The action of the President in directing the Engineer-in-Chief to repair, as recommended in his report, was approved.

4th. Reporting repairs required to Pier at West Seventeenth street, North river. The lessee, Robert S. Briggs, directed to repair, as recommended by the Engineer-in-Chief, and under his direction and supervision.

5th. Reporting repairs required to Pier 27, East river, and crib of Pier foot of Third street, East river. The action of the President in directing the Baltimore and Ohio Railroad Company and the Ridgewood Ice Company lessees, respectively, to repair as recommended by the Engineer-in-Chief, and under his direction and supervision, was approved.

6th. Reporting repairs required to lower Pier at east side of Ward's Island, East river. The action of the President in directing the Engineer-in-Chief to repair, as recommended in his report, at a cost of about \$225, was approved.

7th. Reporting that the New York Floating Dry Dock Company are dredging without a permit between Piers, new 32, and old 43, East river.

8th. Reporting repairs required to Piers, 53 and 55, East river. The action of the President in directing the Engineer-in-Chief to repair, as recommended in his report, was approved.

9th. Reporting that on the 6th instant he had directed that Laborer and Acting Watchman Joseph Trainor be not again assigned to duty as Acting Watchman, and recommending that his action be approved.

On motion, his action was approved.

10th. Report on Secretary's Order No. 9282, in relation to the communication received from the White Star Line, requesting repaving in front of Piers, new 44 and 45, North river, and bulkhead between. The Secretary directed to send them a copy of the Engineer-in-Chief's report, and advise that the Department will waive thereat at their expense if desired.

11th. Report on Secretary's Order No. 9259, as to the condition of and repairs required to the upper Pier at east side of Ward's Island, East river. The action of the President in directing the Engineer-in-Chief to repair, as recommended in his report, at a cost of about \$350, was approved.

12th. Report on Secretary's Order No. 9292, repairs required to the bulkhead foot of One Hundred and Seventh street, Harlem river. The action of the President in directing the Engineer-in-Chief to repair, as recommended in his report, was approved.

13th. Report on Secretary's Order No. 9299, as to the condition of and repairs required to Pier foot Thirty-seventh street, East river. The action of the President in notifying the Baltimore and Ohio Railroad Company, lessees, to repair, under the direction and supervision of the Engineer-in-Chief, was approved.

14th. Report on Secretary's Order No. 9300, repairs required to pavement at bulkhead-platform foot of Forty-third street, East river. The action of the President in directing the Engineer-in-Chief to repair, as recommended in his report, was approved.

15th. Report on Secretary's Order No. 9285, as to the condition of and repairs required to the bulkhead foot of Fifty-second street, East river. The Engineer-in-Chief directed to repair, as recommended in his report, at a cost of about \$340.

16th. Report on Secretary's Order No. 9312, in reference to the application of T. C. Lyman & Co., for permission to repair small Pier, between Forty-ninth and Fiftieth streets, North river. Permission granted; the work to be done under the direction and supervision of the Engineer-in-Chief of this Department.

17th. Report on Secretary's Order No. 8428, that the order to superintend repairing bulkhead between Eighteenth and Nineteenth and Nineteenth and Twentieth streets, North river, by D. C. Newell, has been revoked by resolution of the Board, July 25, 1889.

18th. Report on Secretary's Order No. 8646, in reference to the erection of a shed on Pier 36, East river.

19th. Report on Secretary's Order No. 9055, that he had superintended the excavating of two hundred and ninety-four cubic yards of material dumped in the slip between Piers, old 41 and 42, North river, from the scow "Laura Tracy" owned by Brown & Fleming.

20th. Report on Secretary's Order No. 9322, that he had superintended replacing three white oak fender-piles at Pier 28, East river.

21st. Report on Secretary's Order No. 9321, that he had superintended driving pile at Pier 23, East river.

22d. Report on Secretary's Order No. 9320, that he had superintended driving one pile at Pier 13, East river.

23d. Report on Secretary's Order No. 9225, that he had superintended replacing piles on Pier at Thirty-first street, East river.

24th. Special report on Secretary's Orders Nos. 9032 and 9033, respecting the dredging under platforms between Piers 8 and 9, and 12 and 14, North river.

The communication from the Engineer-in-Chief, submitting a plan for the new street wharf or place required to be made by chapter 286 of the Laws of 1889, from the northerly line of East Forty-ninth street along the East river to a point south of the southerly line of East Fifty-third street, was, on motion, ordered to be placed on file, and the following resolution adopted:

Resolved, That the said plan be and hereby is approved by this Board and that it be and hereby is determined upon as the plan for an exterior street, wharf or place from Forty-ninth to Fifty-third street, East river, as required by chapter 286 of the Laws of 1889, and that it be transmitted to the Commissioners of the Sinking Fund for their approval.

The communications from the Engineer-in-Chief reporting non-commencement of dredging in the half slips on each side of Pier foot of Thirty-ninth street, North river, and in front of the bulkhead one hundred feet south of said Pier were,

On motion, ordered to be placed on file and the Engineer-in-Chief directed to prepare specifications and form of contract for dredging in the half slips on each side of the Pier foot of West Thirty-ninth street, North river, and in front of the bulkhead one hundred feet north and south of said Pier.

The communication from the Engineer-in-Chief submitting plans for change of lines for Pier, new 29, North river was,

On motion, ordered to be placed on file and the following resolutions were adopted: Resolved, That this Board deems it advisable to change the location of the new Pier at the foot of Vestry street, North river, from the location therefor as laid down on the plans determined by this Board April 13, 1871; and adopted and certified to by the Commissioners of the Sinking Fund, April 27, 1871, as follows:

The southerly line of Pier, new 29, to be one hundred and forty-two feet distant from the northerly side-line of Pier, new 28, as now built, instead of about one hundred feet distant therefrom as shown on the plans aforesaid, and the side-lines of Pier, new 29, to be parallel to the side-lines of Pier, new 28, as now built; all as shown on plan submitted in duplicate by the Engineer-in-Chief and hereby approved by this Board.

Resolved, That the Commissioners of the Sinking Fund be and they hereby are requested to consent to and approve the change in the location of the new Pier at the foot of Vestry street.

The application of the Western Transit Company, requesting a permit to erect on the upper side of Pier, new 6, East river, next to the bulkhead, two derricks and the privilege of using on said pier a tally-house and two dock-boxes, was,

On motion, taken from the table, ordered to be placed on file and the following resolution adopted:

Resolved, That permission be and hereby is granted to the Western Transit Company, to erect and construct at their own expense, under the direction and supervision of the Engineer-in-Chief of this Department, two derricks on the upper side of Pier, new 6, East river, together with the privilege of using on said pier a tally-house and two dock-boxes, which are to be and remain thereat during the will of the Board. The said derricks to be maintained for the use of the public.

The special report of the Engineer-in-Chief on Secretary's Order No. 9226, in relation to the dredging ordered under the platform between Piers, old 1 and 2, North river, was ordered to be placed on file and,

On motion, it was ordered that in cases where this Department has ordered dredging under the direction and supervision of its Engineer-in-Chief, at the request of the Board of Health, on account of sanitary reasons, the Engineer-in-Chief be and hereby is directed to request the Health Department to send a sanitary inspector to examine such locations and report whether sufficient dredging is done for sanitary requirements.

On motion, the Engineer-in-Chief was directed to prepare plans, specifications and form of contract for building a new wooden pier at or near the foot of West Twenty-eighth street, to be known as Pier, new 58, North river.

The communication from John M. Bowers, attorney for Bradish Johnson, relating to the proposed purchase of wharf property between Forty-seventh and Forty-ninth streets, North river, was referred to Commissioners Matthews and Cram to agree upon a price, if possible, and report to the Board.

On motion, the subject-matter respecting the changing of the railroad tracks used by the Chambers Street and Grand Street Ferry Railroad Company and the Houston, West Street and Pavonia Ferry Railroad Company on the newly-made land in front of the Pavonia ferry, foot of Chambers street, North river, was referred to the President, with power to arrange as to the kind of rails to be used and where located.

The Secretary reported that the pay-rolls for the General Repairs and Construction Force for the half month ending July 31, 1889, amounting to \$14,480.35, had been approved and audited, and he had forwarded the same, with requisitions for the amounts, to the Finance Department for payment.

On motion, his action was approved.

The communication from the Engineer-in-Chief, in reference to and submitting certain reports and maps in reference to Piers, old 23 and 24, North river, and the bulkhead between them, was, on motion, ordered to be placed on file and the following preambles and resolution adopted:

Whereas, By section 715 of chapter 410 of the New York City Consolidation Act of 1882, the Board of the Department of Docks of the City of New York is authorized to acquire by purchase in the name and for the benefit of the Corporation of the City of New York, any and all wharf

property in said city, and all rights, terms, easements and privileges pertaining thereto, subject to the approval of the Commissioners of the Sinking Fund, and in case of failure to agree upon a price for the same, to direct the Counsel to the Corporation of said city to take legal proceedings to acquire the same for the said Corporation,

And Whereas, This Department is desirous of acquiring, in the name and for the benefit of the Corporation of the City of New York, all that "wharf property" (as defined in section 724 of chapter 410 of the New York Consolidated Act of 1882), or so much thereof as is not now owned by the City—situated and being on the westerly side of West street, North river, between the centre line of Pier, old number 23, at the foot of Vesey street, and the centre line of Pier, old number 24—between Vesey and Barclay streets—claimed to be owned by James Cruikshank as trustee of Catharine Louise O'Connor Jones, and Nathaniel P. Rogers and S. V. R. Cruger, trustees under the will of James M. Pendleton, deceased; be it

Resolved, That this Board hereby offers to purchase said property and pay for a good and sufficient title therefor, free from all encumbrances whatsoever, the sum of \$50,000, subject to the approval of the Commissioners of the Sinking Fund as provided for by law; and be it further

Resolved, That copies of this resolution be served upon James Cruikshank as Trustee of Catharine Louise O'Connor Jones and Nathaniel P. Rogers and S. V. R. Cruger, Trustees under the will of James M. Pendleton, deceased, and they be and hereby are requested within ten days from receipt thereof to notify this Board in writing whether the said owners will sell their respective rights and interests as aforesaid in the said premises to the Mayor, Aldermen and Commonalty of the City of New York for the price above mentioned, and in the event that they or either of them shall fail to notify this Board of their willingness to so convey their respective rights and interests as aforesaid, it shall be deemed that no price can be agreed upon for the said premises between the owners thereof and this Department.

The Engineer-in-Chief having reported that dredging is required in the slip between Piers, old 23 and 24, North river, the following preamble and resolution were,

On motion, adopted: Whereas, the Engineer-in-Chief of this Department has reported that dredging is required in the slip between Piers, old 23 and 24, North river.

Resolved, That James Cruikshank, Trustee of Catharine Louise O'Connor Jones and Nathaniel P. Rogers and S. V. R. Cruger, Trustees under the will of James M. Pendleton, deceased, be and they hereby are notified and directed to dredge the slip between Piers, old 23 and 24, North river, for its inner three hundred feet to a depth of at least twenty feet at mean low water in order to remove the deposit of filth that has accumulated there, and to dredge deeper than twenty feet if the dredging to the depth of twenty feet does not remove all the filth.

The said dredging to be done under the direction and supervision of the Engineer-in-Chief of this Department.

The Treasurer, Commissioner Matthews, submitted his report of receipts for the week ending August 7, 1889, amounting to \$177,769.92, which was received and ordered to be spread in full on the minutes, as follows:

Table with columns: DATE, FROM WHOM, FOR WHAT, AMOUNT, TOTAL, DATE DEPOSITED. It contains a list of financial transactions from August 1, 1889, including entries for rent, payments to various companies like the Manhattan Railway Co, and other dock-related expenses.

Thermometers.

Table with columns for DATE, 7 A.M., 2 P.M., 9 P.M., MEAN, MAXIMUM, MINIMUM, and MAXIMUM. Rows for August 18-24.

Summary table for thermometers: Mean for the week, Maximum for the week, Minimum, Range.

Wind.

Table with columns for DATE, DIRECTION, VELOCITY IN MILES, FORCE IN POUNDS PER SQUARE FOOT.

Distance traveled during the week 734 miles. Maximum force 2 pounds.

Hygrometer. Clouds. Rain and Snow. Ozone.

Table with columns for DATE, FORCE OF VAPOUR, RELATIVE HUMIDITY, CLEAR, OVERCAST, DEPTH OF RAIN AND SNOW IN INCHES.

Total amount of water for the week .22 inches. Duration for the week 11 hours, 00 minutes.

Table with columns for DATE, 7 A.M., 2 P.M. Rows for August 18-24.

DANIEL DRAPER, PH. D., Director.

CIVIL SERVICE SUPERVISORY AND EXAMINING BOARDS.

NEW YORK CITY CIVIL SERVICE BOARDS, COOPER UNION, NEW YORK, August 26, 1889.

WILLIAM G. McLAUGHLIN, Esq., Supervisor of the City Record:

DEAR SIR—In accordance with Civil Service Regulations, I hereby report the following appointments:

- By the Department of Charities and Correction—As Attendants on the Insane, on probation: August 9. Isaac Findlay, Nora Murphy. August 11. Agnes Kearns. August 13. James J. Friel. August 14. Lydia F. Hanan. August 15. Kate Timmons, Frederick W. Penn, George W. Whitman. August 16. Emil Hofman, James McDowell. August 13. Kate Stewart, as Nurse. August 14. Charles T. Mitchell, as Nurse. August 15. Marion Nolan, as Nurse. By the Department of Street Cleaning—August 14. Miss Margaret D. O'Toole, as temporary Stenographer and Type-writer. By the Department of Public Works—August 14. Patrick Fox, as Inspector of Regulating and Grading; character certified to by W. H. Hume, No. 2 West Fourteenth street; P. J. Moran, No. 200 West One Hundred and Twenty-fifth street; P. C. Donnelly, Grand Boulevard and One Hundred and Thirty-sixth street; W. S. Larkin, M. S., No. 328 St. Nicholas avenue.

August 19. Fred. W. Brown, as Inspector of Water to Shipping; character certified to by Arthur Phillips, No. 66 Third avenue; A. E. Goetz, No. 127 Fourth avenue; J. J. Fleming, No. 123 Fourth avenue; R. Marriman, No. 130 Third avenue.

August 20. John J. Kelly, as Inspector of Paving; character certified to by A. L. Putney, No. 206 West Thirty-ninth street; R. J. Sullivan, No. 222 West Thirty-first street; John Morgan, No. 343 West Thirty-ninth street; J. L. Thornton, No. 520 Eighth avenue.

Very respectfully, yours, GUNTHER K. ACKERMAN, Secretary and Executive Officer.

DEPARTMENT OF STREET CLEANING.

DEPARTMENT OF STREET CLEANING—CITY OF NEW YORK, NOS. 49 AND 51 CHAMBERS STREET, NEW YORK, August 20, 1889.

In accordance with the provisions of section 51, chapter 410 of the Laws of 1882, the Commissioner of Street Cleaning makes the following abstract of the transactions of this Department for the week ending July 28, 1889:

Streets Swept.

Table with columns for Streets Swept, Miles. Rows for Department forces, By contract, lower Broadway, Total.

Material Collected.

Table with columns for Material Collected, Ashes and Garbage, Street Sweepings, Total Loads. Rows for Department forces, By contract, Lower Broadway, On permit, Bureau of Markets, Departments of Public Works and Public Parks, Manufacturers (boiler ashes, etc.), Totals.

Final Disposition of Material.

Table with columns for Final Disposition of Material, Loads. Rows for At sea and behind bulkheads, 33 dumpers at sea, 9 deck scows at sea, 13 deck scows at Dutch Kills Creek, In lots for filling-in, fertilizing, etc., At One Hundred and Fortieth street and Fifth avenue, At One Hundred and Thirty-seventh street and Madison avenue, At various places, For fertilizing, Total disposition.

Appointments.

- Denis Fitzgerald, Hired Cart, First Precinct. Henry Weider, Hired Cart Eleventh Precinct. Peter McGowan, Laborer, Twenty-second Precinct. Hugh McCarran, Laborer, Twelfth Precinct. Thomas Drisland, Laborer, Thirtieth Precinct. T. Sullivan, Laborer, Fourth Precinct. James Flynn, Laborer, Thirteenth Precinct. Edward Murray, Hired Cart, Eleventh Precinct. William B. Calvert, Hired Cart, Eleventh Precinct. Emil D. Otto, Hired Cart, Tenth Precinct. Ellis Altman, Hired Cart, Tenth Precinct. Jacob Keetner, Department Cart Driver. John O'Brien, Laborer, Twelfth Precinct. Samuel R. Haysman, Laborer, Seventh Precinct. James Quirk, Laborer, Seventh Precinct. Nicholas Vallondiore, Laborer, Thirteenth Precinct. Benjamin Clark, Laborer, Thirteenth Precinct. James Sullivan, Department Cart Driver. P. Cantwell, Department Cart Driver. Antonio Passolano, Laborer, Seventh Precinct. Michael Demauch, Laborer, Seventh Precinct. Bernard Frice, Hired Cart, Eleventh Precinct. John Pickett, Hired Cart, Fourteenth Precinct. Patrick Cavanagh, Laborer, Twenty-ninth Precinct. John Sheehan, Hired Cart, Twenty-third Precinct. Mrs. Kate Neader, Hired Cart, Twelfth Precinct. John Lennon, Hired Cart, Twenty-fifth Precinct. Thomas Rose, Laborer, Extra Cleaning Squad. Ant. Cassel, Laborer, Extra Cleaning Squad. V. Vorogo, Laborer, Extra Cleaning Squad. Thomas Murphy, Hired Cart, Twelfth Precinct. Michael Murphy, Hired Cart, Twelfth Precinct. Michael Rooney, Hired Cart, Fifth Precinct. Anthony, Corbano, Laborer, Extra Cleaning Squad. Vincent Gargam, Laborer, Extra Cleaning Squad. Daniel Harrington, Laborer, Extra Cleaning Squad. Peter Lennon, Laborer, Twenty-first Precinct. William Diefenback, Department Cart Driver. Tony Meyer, Department Cart Driver. Michael Lynch, Department Cart Driver. Thomas Lynagh, Laborer, Eleventh Precinct. August Vitting, Department Cart Driver. Nobito Vilagliano, Laborer, Seventh Precinct. John Smith, Assistant Dump Inspector. Henry W. Wolf, Assistant Dump Inspector. Farrell O'Garragh, Department Cart Driver. T. Clune, Department Cart Driver. George Doran, Department Cart Driver. John McGibney, Department Cart Driver. Edward Byrne, Department Cart Driver. James Flanagan, Department Cart Driver. John Cadimatre, Laborer, Sixth Precinct.

Removals.

- M. O'Brien, Laborer, Twelfth Precinct. W. Nolan, Laborer, Fourth Precinct. M. Beatty, Laborer, Thirteenth Precinct. M. Cumiskey, Laborer, Twelfth Precinct. T. Bohan, Hired Cart, Twenty-fifth Precinct. John Flynn, Laborer, Twelfth Precinct. Con. Ragoni, Laborer, Fourth Precinct. H. Luby, Laborer, Fourth Precinct. Dom. Ventry, Laborer, Fourth Precinct. W. Anderson, Laborer, Fourth Precinct. John Harkins, Laborer, Fifth Precinct. James Jones, Laborer, Fifth Precinct. William Mooney, Laborer, Fifth Precinct. W. J. Phelan, Laborer, Fifth Precinct. Frank Rocks, Laborer, Sixth Precinct. A. Falitte, Laborer, Sixth Precinct. A. Lutz, Laborer, Sixth Precinct. Francis Jim, Laborer, Seventh Precinct. Con. Sullivan, Laborer, Eighth Precinct.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York...

PURSUANT TO CHAPTER 423 OF THE LAWS 1888, and other statutes in such cases made and provided...

Beginning at a point, the intersection of the centre line of One Hundred and Sixty-seventh street with the westerly line of the Edgecombe road...

Thence easterly in a line radial to the curve of said road, and deflecting to the left from the centre line of One Hundred and Sixty-seventh street produced...

Beginning at a point on the easterly line of Edgecombe road, 177 99-100 feet northerly from the initial point of the first curve northerly from One Hundred and Sixty-fifth street...

Beginning at a point in the easterly line of Edgecombe road 177 99-100 feet northerly from the initial point of the first curve northerly from One Hundred and Sixty-fifth street...

WILLIAM H. CLARK, Counsel to the Corporation, No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York...

WE, THE UNDERSIGNED, COMMISSIONERS of Estimate and Assessment in the above-entitled matter...

First.—That we have completed our estimate and assessment, and that all persons interested in this proceeding...

Second.—That the abstract of our said estimate and assessment, together with our maps and also all the affidavits, estimates and other documents...

Third.—That the limits of our assessment for benefit include all those lots, pieces or parcels of land, situate, lying and being in the City of New York...

Fourth.—That our report herein will be presented to the Supreme Court of the State of New York...

Dated NEW YORK, July 17, 1889. EDWARD McCUE, Chairman, GILBERT M. SPEIR, JR., JOHN H. KITCHEN, Commissioners.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York...

WE, THE UNDERSIGNED, COMMISSIONERS of Estimate and Assessment in the above-entitled matter...

First.—That we have completed our estimate and assessment, and that all persons interested in these proceedings...

Second.—That the abstract of the said estimate and assessment, together with our maps and also all the affidavits, estimates and other documents...

CHARLES REILLY, Commissioner of Jurors.

WE, THE UNDERSIGNED, COMMISSIONERS of Estimate and Assessment in the above-entitled matter...

First.—That we have completed our estimate and assessment, and that all persons interested in these proceedings...

Second.—That the abstract of the said estimate and assessment, together with our maps and also all the affidavits...

Third.—That the limits embraced by the assessment aforesaid are as follows, to wit: All those lots, pieces or parcels of land, situate, lying and being in the City of New York...

Fourth.—That our report herein will be presented to the Supreme Court of the State of New York...

Dated NEW YORK, July 3, 1889. EDWARD L. PARRIS, THOMAS DUNLAP, HIRAM D. INGERSOLL, Commissioners.

CARROLL BERRY, Clerk.

JURORS. NOTICE IN RELATION TO JURORS FOR STATE COURTS.

OFFICE OF THE COMMISSIONER OF JURORS, ROOM 127, STEWART BUILDING, CHAMBERS STREET AND BROADWAY, NEW YORK, June 1, 1888.

APPLICATIONS FOR EXEMPTIONS WILL BE heard here, from 9 to 4 daily, from all persons hitherto liable or recently serving...

Persons "enrolled" as liable must serve when called or pay their fines. No mere excuse will be allowed or interference permitted.

NOTICE OF COMMISSIONER OF JURORS IN REGARD TO CLAIMS FOR EXEMPTION FROM JURY DUTY.

ROOM 127, STEWART BUILDING, No. 280 BROADWAY, THIRD FLOOR, NEW YORK, June 1, 1889.

CLAIMS FOR EXEMPTION FROM JURY duty will be heard by me daily at my office, from 9 A.M. until 4 P.M.

Those entitled to exemption are: Clergymen, lawyers, physicians, surgeons, surgeon-dentists, professors or teachers in a college, academy or public school...

CORPORATION NOTICE.

PUBLIC NOTICE IS HEREBY GIVEN TO THE owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby...

List No. 3024, No. 1. Regulating, grading, setting curb and gutter-stones and flagging in East One Hundred and Forty-ninth street...

List No. 3044, No. 4. Sewer in One Hundred and First street, between Boulevard and West End avenues.

List No. 3054, No. 14. Paving One Hundred and Thirteenth street, from Fourth to Madison avenue.

List No. 3064, No. 18. Laying and relaying flagging and curb on the west side of Third avenue, between Eighty-seventh and Eighty-eighth streets.

List No. 3074, No. 22. Sewer in Eldridge street, between Grand and Broome streets.

List No. 3084, No. 22. Sewer in Eldridge street, between Grand and Broome streets.

List No. 3094, No. 26. Sewer alterations and improvements in Fifty-third street, at Tenth avenue.

List No. 3104, No. 26. Sewer alterations and improvements in Fifty-third street, at Tenth avenue.

EDWARD GILON, Chairman, PATRICK M. HAVERTY, CHAS. E. WENDT, EDWARD CAHILL, Board of Assessors.

