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DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

Report for the Quarter ending March 31, 1902.

Commissioner's Office, New York, June 23, 1902.

Hon. SETH LOW, Mayor, City of New York:

Dear Sir—In compliance with section 1544 of the revised Greater New York Charter, chapter 466 of the Laws of 1901, I have the honor to present my report of the operations of the Department of Water Supply, Gas and Electricity for the three months which terminated March 31, 1902.

This Department, as created by the revised Charter, is a consolidation of the former Department of Water Supply with a portion of the former Department of Public Buildings, Lighting and Supplies. Apart from the difficulties of organization arising from the merging of the former Department of Water Supply with a portion of the other Department, a state of disorganization, if not chaos, prevailed when I assumed the duties of head of the department on January 1 of this year, because of the fact that the various deputy commissioners created by the former Charter were by the language of the revised Charter legislated out of office on January 1. The Deputy Commissioner located at the main office, in Manhattan, appointed by me on January 1, was sworn into office by Your Honor on January 2, and immediately undertook the discharge of his duties, but in no other borough was there any deputy commissioner, and the revised Charter left me without power to appoint deputies in their stead, without the consent first obtained of the Board of Estimate and Apportionment and of the Board of Aldermen. (Section 432.) The revised Charter, as it then stood, prescribed that there might be a deputy commissioner in each borough in which was located a branch office of the Department, if provision were made therefor by the Board of Estimate and Apportionment and the Board of Aldermen, and provided further that a branch office should be located in the Borough of Brooklyn and might be located in the Borough of The Bronx.

Shortly after my accession to office I made application to the Board of Estimate and Apportionment for the appointment of a deputy commissioner, to have jurisdiction over the Boroughs of Brooklyn and Queens, and for the appointment of a deputy commissioner in the Borough of The Bronx. The Board of Estimate and Apportionment authorized such appointments, but, opposition coming from the Board of Aldermen to a union of the Boroughs of Brooklyn and Queens, and there being no separate power conferred by the Charter for the appointment of a deputy in Queens or in Richmond, I drafted an amendment to section 428 of the Charter, permitting me to appoint a deputy in the Borough of Queens and a deputy in the Borough of Richmond. This became law on April 14, 1902. The necessity of obtaining this amendment delayed the organization of the various boroughs under deputy commissionerships until about May 1. Public business in the interval in the various boroughs could not, however, be brought to a standstill; hence I delegated some of the functions of a deputy commissioner in the Borough of Brooklyn to the Chief Engineer for the boroughs of Brooklyn and Queens (whose office was created by permission of the Board of Estimate and Apportionment and the Board of Aldermen, in conformity with section 453 of the Charter), and was constrained to continue certain prior deputy commissioners as de facto deputies in their boroughs, in order to prevent an absolute cessation of departmental work in their respective jurisdictions.

It has required patient and laborious study to evolve a proper system, but I believe that at the present time the various boroughs are satisfactorily organized and are in excellent working condition.

By a curious anomaly of legislation there were added to the concrete and specific functions and responsibilities of the former Department of Water Supply, but for no apparent logical reason, the duties of the former Department of Public Buildings, Lighting and Supplies, relative to the lighting of public highways, bridges, parks, docks and buildings; inspection of the quality of gas and electric service, both public and private; supervision and inspection of electric wiring in all streets and buildings; inspection and certification of electric meters and removal of aerial wires to subways, when declared practicable by the Board of Estimate and Apportionment. Numerous complicated and important legal questions as to the jurisdiction of the newly constituted department in relation to gas and electricity at once arose for solution, and by degrees, with the cordial co-operation and advice of the Corporation Counsel, many of these troublesome questions have been settled.

Generally speaking, the duty of this Department, in its supervision and inspection of electric wiring, is that of determining whether the electric service installed under the jurisdiction of other departments or of the Presidents of the respective boroughs is in accordance with the charter and provisions of law, the department itself being under no obligation to furnish the plant or the wires, but acting purely as a regulative and supervisory authority.

Immediately upon my accession to office, I was confronted with the duty of signing, on behalf of the City, contracts for electric and gas lighting service, aggregating in amount almost three million dollars. Appropriations had been sought by the former Department of Public Buildings, Lighting and Supplies for this year for lighting the streets, avenues, parks and public buildings of the city, but it has since developed that several of the city departments have heretofore contracted independently of the late Department of Public Buildings, Lighting and Supplies for gas or electric lighting service, and consequently the appropriations allotted to this department are insufficient to cover its entire duty, without transfer of appropriations from other departments, which have heretofore performed this work on their own account, to the appropriations already allowed to this Department, under estimates of the late Department of Public Buildings, Lighting and Supplies. Great confusion has ensued and it has not yet been feasible to obtain from various other departments all the requisite data to enable this Department to ascertain the exact extent of its responsibilities in this respect or to call upon the Board of Estimate and Apportionment for appropriate transfers, but I am sanguine that at an early date all these difficulties will have vanished.

I have adverted to the anomalous character of this Department, and desire again, at the risk of repetition, to assert my opinion that it is ill-constituted and illogical, that there is no apparent relation between the water system and the gas and electric jurisdiction of the Department, save that water and gas are conveyed through underground mains and that it is the policy of the law that all electric service shall ultimately be furnished through subways. Sound and cogent reasons would have dictated that if the Department were to be reconstituted, its work should have been limited to that of water supply and distribution, and its jurisdiction extended over the entire water system, even had this involved the abrogation of the Croton Aqueduct Commission. The Department, in my judgment, will never be properly constituted until gas and electricity shall be eliminated from its control and its powers extend to all subjects relative to the City's water supply. So great has been found to be the work added to the Department by the annexation of gas and electricity, and so important are these bureaus, that I am constrained to advocate the creation by the next Legislature of a separate Department of Gas and Electricity, under a separate Commissioner.

Early in the year the head of the Department was called upon to make a revised estimate of all appropriations appearing in the tax levy of 1902, required for the proper conduct of the public business under his charge, with all possible reductions from the departmental estimates presented by his predecessors and from the final estimate adopted by the former Board of Estimate and Apportionment in December last. The difficulty, importance and extent of this work sufficiently appear in the estimate which I pre-

sented to the Board of Estimate early in March last. Hardly had this work been completed before I was requested by said board to prepare and present to it a revised salary list, suggesting a reduction of 10 per cent. in salaries. The lack of a unique and comprehensive system with respect to departmental appropriations became apparent to me early in the year, for before the preparation and submission of my revised estimate I had prepared and submitted to the Board of Estimate and Apportionment, pursuant to section 242 of the Revised Greater New York Charter, an estimate of the appropriations needed from the Brooklyn Water Revenue Fund. There is an obvious inconsistency in the provisions of the law, which, on the one hand, require that all the expenses for the operation and maintenance of the Croton water system, and of the water systems in the outlying boroughs, excepting Brooklyn, should be defrayed out of the annual tax levy, while appropriations for the Brooklyn water system are mainly provided for out of the Brooklyn Water Revenue Fund. The inconsistency is rendered more striking since some portions of the Brooklyn water expenses appear in the annual budget and are not payable out of the Brooklyn Water Revenue Fund.

I can see no valid reason why any part of the expenses of the Croton water system or of the water systems in other boroughs should appear in the tax levy at all. The new Charter wisely requires appropriations for the maintenance and operation of the Brooklyn water system to be made by the Board of Estimate and Apportionment, although out of the Brooklyn Water Revenue Fund, and it might properly have provided that the annual expense of maintaining the Croton water system be paid out of the Croton Water Fund, upon appropriations made by the Board of Estimate and Apportionment. As it is now, the estimate of this department possesses a dual character, and its total annual expenditures do not appear in the annual budget.

If, as it is to be hoped, the City's water debt is, by constitutional amendment, so to be separated from other municipal indebtedness as not to be counted in the 10 per cent. debt limit, the time is ripe for the establishment in this Department of a system of bookkeeping which shall keep all water revenues, and all disbursements for maintenance, operation and improvements, separate and distinct from other city accounts. Account should be kept of every expense payable out of appropriations from the tax levy, and out of appropriations from Brooklyn water revenues. These accounts might well show all the expenses of the Croton Aqueduct Commission. No books are kept which show the city's investment in the Croton water system, either for plant or lands, or in the Brooklyn water system. If such a system were inaugurated, it would be practicable so to keep accounts of the entire water system that a trial balance, or a balance sheet might be obtained at periodic intervals, and this balance sheet should exhibit in intelligible form everything necessary to enable either an accountant or an experienced business man to understand how the city stood in capital and investment account, in surplus, in income, or in expenditure either for maintenance and operation or for new plant or water sheds.

The revised departmental estimate showing appropriations required in the tax levy of 1902 may be contrasted with the final estimates of December last, as follows:

	Final Estimate of December, 1901, for 1902.	Revised Depart- mental Estimate for 1902.
Boroughs of Manhattan and Bronx.....	\$2,333,262.50	\$2,448,496.50
Borough of Brooklyn	1,162,188.60	1,185,977.85
Borough of Queens.....	647,951.63	663,200.72
Borough of Richmond	198,339.17	209,022.50
	<u>\$4,341,741.90</u>	<u>\$4,506,697.57</u>

The estimates of the Department were, however, reduced by the Board of Estimate and Apportionment, in appropriations actually granted, by the sum of \$173,495.34.

In communications of January 13 and 25, to the Board of Estimate and Apportionment, I also presented my estimate of the amounts required for 1902 for the maintenance and operation of the Brooklyn water system, which are payable from the Brooklyn Water Revenue Fund, as set apart by that Board in pursuance of paragraph 1, section 242, of the amended City Charter, and do not figure in the appropriations from the annual tax levy. The estimate is:

For salaries and wages.....	\$653,295.25
For fuel, general supplies and repairs.....	628,610.00
	<u>\$1,281,905.25</u>
Reductions from expenditures for 1901 on salaries and wages.....	\$112,523.80
Reductions from expenditures for 1901 on supplies and repairs.....	41,865.20
	<u>\$154,389.00</u>

Before reporting in detail upon the work in the several boroughs, a few words may be devoted to the general results of the work during the first three months of the year, which may thus be summarized:

1. The passage of an amendment to the Penal Code (section 651A), making it a penal offense to tamper with water meters, and of
2. An amendment to section 473 of the revised Greater New York Charter, enabling the Commissioner to raise the rates of a consumer of metered water to such a point that they at least equal what would have been his frontage charges had the property been subject to frontage rates.
3. Opening a new Water Registrar's office in the borough of The Bronx.
4. Large additions to the water revenues in the Boroughs of Manhattan and The Bronx.
5. The gains achieved in the Water Registrar's office in the Borough of Manhattan during the first quarter of the year convince me that a great augmentation of the revenues for the year might have been confidently expected, had my requests for additional water meter inspectors been granted.
6. The passage of a bill putting it in the power of the Board of Estimate and Apportionment to condemn the franchises, plant and other property of the New York and Westchester Water Company, whose insufficient water service in the upper part of the Borough of The Bronx has been for years a cause of complaint. (Chapter 617, Laws of 1902.)
7. Abolition of unnecessary surveys in the Catskill regions.
8. Large reductions in the Brooklyn payrolls, effecting a saving of \$112,523.82.
9. Institution of measures for relief of the more populous parts of Brooklyn from existing overhead wire conditions.

I have endeavored to obtain the passage by the Board of Aldermen, under section 475 of the Charter as amended, of a resolution enabling me to place water meters in apartment houses, etc. Without the authority of that Board this cannot be done, except voluntarily by the owners. Public hearings on the subject have been held by the Committee of the Board having charge of the subject, at which I advocated the resolution, but the Committee has not yet reported. The community will in time learn that universal metering is the solution of the waste problem.

Besides this work, many minor improvements and economies have been inaugurated, some of which will be specially commented upon later in this report.

BOROUGH OF MANHATTAN AND THE BRONX.

Croton Water Supply.

The rainfall recorded by the rain gauges kept by the Department at three stations in the Croton Watershed was as follows:

	January. Inches.	February. Inches.	March. Inches.	Total Inches.
Boyd's Corner Reservoir.....	2.80	3.96	7.49	14.25
Middle Branch Reservoir.....	3.12	3.60	7.01	13.73
Croton Dam Reservoir.....	3.06	4.28	5.96	13.30

The natural flow of the Croton River at the Croton Dam furnished sufficient daily supply through the new and the old aqueduct, without need of draft on the reserve in the storage reservoirs. At the close of the quarter these reservoirs were filled and contained 42,000,000 gallons of water, or about 150 days' supply. A surplus of over 81,000,000 gallons of water, which could not be impounded in the reservoir, flowed over the Croton Dam into the Hudson River.

The heaviest freshet known in the Croton Valley in twenty-nine years occurred on February 28 and March 1 of this year. It had been preceded by a heavy freshet on December 29, 1901, which carried away the coping stone on the spillway of the East Branch Reservoir and damaged the side retaining walls, as well as the coping stone on the dam of the West Bronx Reservoir and the dam of the Titicus Reservoir. These freshets occasioned considerable damage also to roadways in the vicinity of the reservoirs. Some of the roadways were built and are required to be maintained by the City, in pursuance of the terms of settlement of damages in legal proceedings for the acquisition of lands and water rights. Steps have been taken to repair the dams and roads and the expense thus occasioned will enhance the cost of maintenance of the Croton water system.

Mount Kisco.

Various measures for the sanitary protection of the Croton water supply, including a system of patrol along the shores of streams, reservoirs, lakes and ponds in order to detect and to remove contaminating nuisances; the operation of an electro-zoom plant for the disinfection of sewage from the Village of Brewster; and the dry pan process at the Village of Mount Kisco, for the removal of excrement and house drainage, have been carried on uninterruptedly. It is obvious that no system of patrol, however vigilant, will become scientifically efficient, and a wise sanitary system would dispense, as far as possible, with reliance upon mere human vigilance. Thorough sanitary protection requires that a great city's supply, from its source to the point of distribution, should, if possible, be conveyed in properly constructed conduits and aqueducts.

Toward the close of last year the authorities of the Village of Mount Kisco appealed to the Commissioner of Water Supply for his agreement to a cession to the village, for the establishment of a new railroad station, a small park and a driveway to the station, of a portion of the land theretofore acquired by the city for the sanitary protection of the Croton tributaries at that place. The matter was still undecided when I acceded to the duties of my office. Although the village authorities had obtained a quasi indorsement of their plan from the State Board of Health, I felt it incumbent upon me to make a thorough investigation and to proceed with great caution before acquiescing in the cession, because of the importance of protecting the City's rights and interests, and was amply sustained in my efforts by the City's Health Department. I caused personal inspection of Mt. Kisco, its sanitary conditions and the proposed site of the new depot to be made by the General Secretary of this Department, who, after conference with various individuals, including the late President of the village, reported adversely to the proposed change. I also caused a chemical, microscopical and bacteriological analysis of the water flowing through Branch brook to be made by Mr. Whipple, biologist and chemist in charge of the Mt. Prospect Laboratory, who also reported unfavorably to the wishes of the village authorities, and, after submission of Mr. Whipple's report to Dr. Lederle, Commissioner of Health, have been advised by him that the City's interests would be detrimentally affected if the land were to be ceded. In view of the fact that this land has only recently been acquired by the City, under the act for the sanitary protection of the Croton water system, it would seem to me that a conclusive case, establishing that the transfer would not be attended by any injurious effects, is required to be made out, and I am unable to see how any such case can be established, in view of the reports which I have heretofore obtained. I therefore decided to deny the request for the cession, and, while I have been requested to visit the places in person and physically inspect the conditions existing there, I am constrained to say that nothing short of a positive demonstration that the City's interests would not be prejudicially affected, will induce me to reach a different decision.

The two Croton aqueducts and their appurtenances have been maintained in good condition. The old aqueduct, below the site of the Jerome Park Reservoir, is still closed, and is used only for an auxiliary supply of about 10,000,000 gallons per day to the Borough of The Bronx and for a supply at Sing Sing Prison.

The average daily supply received from the Croton River in January last was 265,000,000 gallons; in February, 268,000,000 gallons; in March, 263,000,000 gallons; average daily supply for the quarter, 265,333,333 1/3 gallons. The excess of draft and consumption in January and February shows the reprehensible and constantly recurring waste in very cold weather, to which house owners and occupants resort, by keeping faucets open and running day and night, in order to protect their water pipes from freezing. Contrasting the first quarter of 1902 with the first quarter of 1901, there will be found an average daily increase in supply and consumption during the first quarter of this year of 12,000,000 gallons, but in considering these figures the fact that in the first quarter of 1901 there was no supply from the Croton aqueduct for the Borough of The Bronx, must be taken into account.

Engineers of high reputation who have made a careful study of the subject estimate the ultimate yield, after completion of the Cornell Dam and the Jerome Park Reservoir, for which the Croton watershed can be safely relied upon, at 275,000,000 to 290,000,000 gallons per day. It is apparent that, at the present and past rate of increase in the consumption of water, the capacity of that watershed will be exhausted in a comparatively short time, and that no time is to be lost in providing funds and devising measures for additional supply from new sources.

Bronx and Byram River Supply.

The rainfall recorded by the rain gauge at Kensico reservoir was 3.10 inches in January, 4.61 inches in February, 6.14 inches in March; total for the quarter, 13.85 inches. No drafts were required upon stored water, and at the close of the quarter the reservoirs on the Bronx River at Rye Ponds, on the Byram River and at Kensico, contained in all 3,800,000,000 gallons of water and were full.

The average daily supply from The Bronx conduit was 18,000,000 gallons in January and 20,000,000 each in February and March. With an auxiliary supply of 10,000,000 gallons per day from the Croton aqueduct, the daily supply and consumption in the Borough of The Bronx during the quarter was 29,333,333 gallons; while, during the first quarter of 1901, it was only 12,660,000 gallons, due to exhaustion of the reservoir and reduced flow in the Bronx river.

The problem of furnishing adequate public water service to all parts of the Borough of The Bronx is very serious and has engaged my earnest attention. The present situation may briefly be said to be as follows:

The maximum safe capacity of the Bronx river conduit is 20,000,000 gallons per day. Under the favorable conditions of rainfall existing in February and March, this supply was kept replenished by the natural flow of the Bronx river, the use of the water from the Byram river having previously been forbidden by the United States Circuit Court. An auxiliary supply, amounting to 10,000,000 gallons per day, obtained from the Croton aqueduct by the operation of a temporary pumping plant at Gun Hill road, has enabled the Department to furnish fire service to certain parts of the borough west of the Bronx river, in which at present the City has no mains. Communications come from this territory, expressing fear of a probable shortage during the summer, the danger of which might be averted if the city should make private contracts to supplement the public supply, but there appears to be difficulty in making such contracts, because of the absence of proper conduit facilities for receiving additional water supply. Further ex-

tensions of the City's public service in any direction are thus prohibited, and the furnishing of additional supply is necessarily deferred until the completion of connections with the Croton aqueduct by new mains, now in course of construction, and particularly until the completion of the high service pumping station at Jerome avenue (under the direction of this Department), and of the Jerome Park Reservoir (under the direction of the Aqueduct Commissioners).

It may be proper at this point to refer to the work now in progress by the Aqueduct Commissioners, and to say that I have been several times during the last three months informed by hydraulic engineers of high reputation that a season of abnormally low rainfall would probably result in draining the present storage reservoirs of the Croton watershed to an alarmingly low point; that such a dangerous state of affairs arose several years ago, but that the peril was relieved by an unexpected heavy storm. These possibilities, which, if nature's recurring cycles of low rainfall are reliable, may become certainties in the near future, emphasize the great importance of speedy completion of the Jerome Park Reservoir and the new Croton Dam.

The commencement of work under the contract for the foundation of the high-service pumping station at Jerome avenue was deferred until March 10, because of severe and inclement winter weather. The construction of the pumping engines and boilers is in progress in the contractor's shops. The contractor for the engine house, boiler house and coal house was some weeks ago ordered to commence work on June 1. A contract has been entered into for water mains to connect the high service station with the distributing system of the borough. The present prospect is that all these works, which will be of incalculable benefit to the people of The Bronx when completed, will be consummated before the close of the ensuing year.

In the territory east of the Bronx river the City has at present no distributing mains, and, in consequence, the people of that community are and have for a long time been dependent for water supply upon the service of the New York and Westchester Water Company. This company, while owning ponds, reservoirs and a pumping station, has been unable to obtain sufficient water without assistance from the City's own supply. I have several times elsewhere referred to its contract with the City, under which it was entitled to 500,000 gallons per day, and to the fact that the supply which it received was unmetered during the entire period of the contract prior to January of this year, with the exception of a few days in May, 1901, when the meter set at the connection of the company's mains with the Bronx aqueduct showed that it was drawing from the City about 1,000,000 gallons daily. The meter which I caused to be set at this connection early in January last has steadily been registering the consumption of water by the company and shows an average daily use of about one million gallons. The act of the Legislature (chapter 617, Laws of 1902), to which I have elsewhere referred, authorizes the Board of Estimate and Apportionment to direct the Commissioner of Water Supply, Gas and Electricity to initiate proceedings for the condemnation of the company's property, or such parts thereof as may be required for public use within the city. I have received from the company certain maps, plans and information regarding this property, and shall hope at an early date to make application to the Board of Estimate and Apportionment for authorization to initiate condemnation proceedings. The alternative to such proceedings would seem to be the laying of mains by the City within the area supplied by the company. It is unnecessary at this time to argue which would be the better plan for the City to adopt.

Distributing System.

Under the revised City Charter the expense of laying water mains to improve the water service and extend it into new streets and territory, is required to be provided by bond issues instead of annual appropriations in the tax levy, the theory being that such new mains consist of plant or investment, and that the expense of their construction should be treated as capital outlays and not annual expenses. Inasmuch as no bond issues were authorized during the first quarter of 1902, the work of the Department has been confined to the prosecution of unfinished contracts made under the last administration. Contracts for water main extensions in 32 streets, nearly all laid in the Borough of The Bronx, have been actually completed. Under these contracts 6,634 linear feet or 1.29 miles of mains were laid, and in connection therewith 17 stopcocks and 11 fire hydrants were set. The necessity of appropriations for additional water mains has been emphatically dwelt upon by me in my communication of April 2 to the Board of Estimate and Apportionment upon the subject of bond issues for water supply purposes, and I cannot but deplore the refusal of that body to grant to this Department sufficient appropriations for such necessary work. The advantages to the people and to the City resulting from a proper distribution system and the supply of sufficient water mains are so obvious, and the demands for adequate appropriations so just, that I am surprised that there should be any hesitation in the allowance of sufficient money for such urgent improvements.

Two special repair companies have been employed in making repairs to large water mains, replacing and repairing defective stopcocks and hydrants and setting additional hydrants. This work is summarized as follows:

- 7 additional hydrants placed.
- 37 defective hydrants replaced by new ones.
- 39 hydrants repaired.
- 6 additional stopcocks placed.
- 5 new stopcocks set in place of defective ones.
- 13 stopcocks repaired.

The following is a summary of the work done by the six regular repair companies in the maintenance of the distributing system in their respective districts, and by the men employed in placing taps in mains for new house connections:

- 230 leaks or defects in water mains repaired.
- 2,862 fire hydrants repaired.
- 160 defective hydrants replaced by new ones.
- 15 defective stopcocks replaced by new ones.
- 460 stopcocks repaired.
- 14 drinking hydrants repaired.
- 303 taps in mains shut off on account of leaks.
- 17 taps in mains shut off for non-payment of water charges and tampering with water meters.
- 383 new taps for house connections placed.

In his quarterly report the Chief Engineer (Mr. Birdsell) calls attention to the great expense incurred by the Department in repairs occasioned by the use of hydrants by contractors on the rapid transit construction and other public works, by builders and contractors for private work, by other city departments and for street sprinkling. The city hydrants are, as he asserts, designed for fire service only. They were not constructed for, nor will they stand, every day promiscuous use and unfortunately, those persons to whom permission to use them has been accorded by this Department, take little or no care to see that the hydrants are shut off after use. Repeated complaints of waste of water occasioned by abuse of hydrant privileges have been received at this Department. This subject has occupied my attention, and has led to a new form of permit, the purpose of which is to place the user under stringent obligations to indemnify the City against waste and injury. It is manifestly unjust that this Department should, unless reimbursed, be charged in its appropriations with the expense of repairs necessitated by use by others persons, including public and private contractors. I have done what I could to put a stop to pernicious waste, by exacting cash deposits upon permits, but desire to add that, in my opinion, not only should contractors and other private recipients of permits be charged for hydrant service, but that each co-ordinate department of the City government which uses fire hydrants (with the exception of the Fire Department) should pay for the privilege, and that corresponding transfers should be obtained by this Department from the appropriations of other departments.

Measures have been taken to repair the water main under the East river from the foot of East 111th street to Ward's Island, which was broken by a dragging anchor or a deep draft vessel. These repairs had to be deferred until spring, because of the floating ice of the winter.

The three high service pumping plants at Washington Bridge, High Bridge and West Ninety-eighth street have for more than two years past been and are now operated at their full capacity of 55,000,000 gallons per day, but so great is the increase of population and of high buildings within the territory supplied by this service, that enlarged pumping facilities are urgently necessary. Progress in the construction of two 15,000,000-gallon engines for the Washington Bridge Station, under contract of February 7, 1901, has been retarded by strikes in the machine shops. It is hoped that one of the two engines will be in place and in operation by October next, and the other early in the coming year. This additional pumping capacity is

absolutely necessary for adequate water service in the territory now supplied by high service and adjacent territory at high levels, to which population is rapidly moving, and before long the maximum facilities of the new service will be drawn upon to their fullest extent. These considerations, with numerous others which will be elsewhere referred to, emphasize the importance of early consideration of the problem of additional water supply, to be furnished at such a head above tide-water that all pumping plants may be dispensed with. Extension of pumping stations and pumping engines is the costliest method of supplying water. The engines require enormous quantities of coal, and the use of coal increases in geometrical ratio, as the engines are taxed to greater capacity, while the possibilities of breakdowns threaten serious water shortage at almost any time.

Water Register's Bureau.

During the first quarter of the year, great progress was made in organizing the Water Register's Bureau, and improvements, which have been put in operation, have resulted in an increase in the water revenues in that bureau of \$125,458.88, or more than 17 per cent. over the corresponding quarter for the year 1901. In the existing system for the receipt of water revenues and their prompt transmission to the City Chamberlain, there is little to improve. The installation of meters in buildings in which they are not at present set should progress as rapidly as practicable, but the Charter provisions are unfortunate in making the cost of the meter and the expense of its installation a lien upon the consumer's property. The general use of meters should meet with popular approval, and I think that no small measure of the popular odium which attaches to metering is due to the fact that the consumer is charged with the cost of installation. If meters were owned by the City and set at its expense a large part of the objection to their use would disappear. Certainly, their wide employment would tend to deter waste. The Department is seriously handicapped because of lack of appropriations to employ a sufficient number of meter inspectors. Since the first of January a large number of meters have been found to be out of order. Many have been tampered with and have failed to register the water actually consumed. So numerous were these cases that I considered it desirable to present to the Legislature a bill for an amendment to the Penal Code, already referred to, as enacted, making it a misdemeanor for any one wilfully to tamper with a water meter, to obstruct the reading of the meter, or render the meter inaccessible to department inspectors. Numerous meters have been found to register inaccurately, almost universally against the City, and numerous corrections have been insisted upon by the Department, with the result that considerable additions have been obtained to the water revenues by means of these corrections. The course usually pursued has been, after setting a new meter, to take its readings for a given period, and from these, with fair allowances, to deduce the probable consumption during the period while the meter was registering inaccurately, and to charge the consumer for arrears upon the basis of the corrected registry. There are, doubtless, thousands of meters in use in the boroughs of Manhattan and The Bronx, registering far less water than is actually consumed, but it is impossible, with the present force of inspectors, for the Department to read these meters at frequent intervals. Unfortunately, too, there is no system in use in the Water Register's office by which it can be readily ascertained whether meter charges are in arrears, and the same difficulty exists as to ordinary frontage rates. It is desirable for ready reference and easy ascertainment whether or not there is a suspicious decrease in water consumption in any metered building, and whether or not meter charges are promptly paid, that there be kept a meter ledger, or that some card or other satisfactory system be installed which would readily disclose whether arrears existed and whether there was a suspicious falling off in registered consumption. Meter readings are supposed to be taken twice a year, and bills should be issued semi-annually. These readings should be taken, depending upon the character of the business supplied with water, from once a month, as a minimum, to once in three months, as a maximum interval, but these improvements would necessitate an increase in the departmental force, and for such increase I have heretofore asked in vain.

Some weeks ago, when a resolution of the Board of Aldermen, authorizing a private corporation to lay a main under West street, was before you for your approval, and you requested my opinion upon the point whether the granting of the desired concession would interfere with the City's water mains, I examined the books of the Water Register's office to find whether the applicant for the permit was in arrears for water charges, and then discovered that it owed the City somewhat over eight thousand dollars. Upon my advice to you concerning the fact and my suggestion that the permit be withheld unless these bills were at once paid, with your co-operation, I was enabled to obtain an immediate check for the amount. Similar instances might be cited, but all show the importance of the installation of a wise system of bookkeeping in this office, but no such system can be installed without expenditure of money and some increment to the existing force of the Bureau.

The laxity of consumers' consciences in respect to water unlawfully obtained from the City is so serious as to require the inauguration of some plan of a general nature to insure payment to the City for all water consumed. Water is held by the courts to be a commodity, which the City sells to private consumers, and its taking by unlawful means should be punished as a conversion of City property. I emphasize this matter because the institution of an adequate bookkeeping system would, I firmly believe, result in an astonishing addition to the City's water revenues. This subject has received much attention in the limited time that I have been able to give it. A new and improved system is now under consideration and may soon be in operation.

Contracts.

The Charter requires all contracts for work and supplies amounting to \$1,000 to be awarded after public advertisement. "Emergency contracts," i. e., contracts for work or supplies urgently needed, the necessity of which could not well have been foreseen, may be awarded without public bidding, even if they exceed \$1,000. The interpretation which the Corporation Counsel and the Comptroller put upon the law, and with which I fully agree, is that where the aggregate of the supplies or services for a year would equal \$1,000, the contract should be publicly advertised. Many opportunities for favoritism, injustice and even frauds upon the City arise in connection with small contracts. These are usually awarded to personal or political associates, and no small portion of the patronage which political leaders enjoy is derived from their ability, through bureau employees, to place these orders with their own friends. The practice prevails of having a requisition presented to the Commissioner, stating the nature of the order and its probable amount. It is astonishing how accurately the expense can be predicted. My aim has been to offer the furnishing of these small supplies to a larger circle of bidders, by asking many dealers, by correspondence, to present bids, but great difficulty has been found in extending the circle of bidders beyond mere local or provincial ones. I have received requisitions for small supplies, aggregating, say, for illustration, \$150, whereas the exact bill has been \$149.90, when it has come in. The almost natural inference is collusion. I believe that the establishment of such a bureau of supplies as I advocated in my estimate to the Board of Estimate and Apportionment, in March last, would have tended to break up these practices. As it is, a saving in these small supplies effected during the quarter justifies the belief that the improved system of letting these contracts will reduce their expense for the year by 25 per cent., or, in round numbers, about \$30,000.

Another advantage of such a bureau would have been to enable the department head to determine whether the City actually receives goods of the quality and quantity ordered. I am unaware of any satisfactory method in existence in any of the departments, of insuring the positive delivery of the stipulated material and in the amounts called for. I have established a number of rules, the aim of which is to widen the circle of competition for small supplies, to insure the delivery of a higher class of goods or more nearly conforming with the terms of the contract. I emphasize this matter because I look upon the patronage system as essentially vicious and detrimental to the City's interests, and believe that local politicians have established a firm grip upon city departments through just such channels.

Gas and Electricity.

The City of New York pays to the gas and electric light companies, for lighting its streets, highways, parks, other public places and public buildings, more than three million dollars per annum. My estimate of March last made the figures \$2,914,041.48, but this estimate, as was afterwards ascertained, did not include numerous contracts which it has heretofore been the custom of the various city departments to make independently of the department of Public Buildings, Lighting and Supplies. The amount of these contracts has not been as yet fully determined, but it probably aggregates \$225,000.

Unfortunately, under existing business conditions, the City is subject to monopoly rates in awarding these contracts, for there is no genuine competition for bids. The New York Edison Company, the Consolidated Gas Company, the Brooklyn Edison Electric Illuminating Company, not to speak of other combinations, are without rivals in their particular field, and the City is forced to pay whatever price these corporations decide to charge it. Whether, under such circumstances, municipalization of gas and electric light would not be an advantage, is an inquiry worth profound consideration. If the City's gas and electric light business were conducted with due regard to the City's interests, there would, I think, be but one answer to the question.

The form of contracts used for gas and electric lighting merits criticism, and I should advocate the introduction of a number of changes when the contracts and specifications shall be prepared this coming fall. The contracts used for gas lighting have been employed for many years. The successful bidder stipulates to furnish lamps, posts, stand pipes, other fixtures and lights, and to keep the lamps, posts, fixtures, etc., in repair for one aggregate sum, and separately fixes figures at which he will repair various parts and install new fixtures.

When gas bills are presented for audit they are usually found to contain charges for resetting lamp-posts, repairing lamps, resetting service pipes or stand-pipes, notwithstanding that an aggregate figure is fixed in the contract for which everything is to be furnished by the company. Nevertheless, inasmuch as the gas companies never charge for these special items, unless an order is received from the Department to furnish the repairs, they contend that they are entitled to the amounts charged. The form of the contract should be such as to require the companies not only to furnish the various fixtures, but to repair them and replace them when they become imperfect through mere wear and tear or use; whereas, if a lamp-post should be upset because of the collision of a vehicle with it, the charge of resetting might properly be cast upon the City. Many posts are removed by contractors upon the Rapid Transit subway of the Metropolitan Street Railway Company, or by other contractors, but the City, in each case, is compelled to pay the charge of repair, or reset, whereas all charges for repairs, etc., occasioned by independent contractors should be made good by them. A great many lamp-posts belonging to the City have from time to time been removed, to be replaced by different styles, or for other reasons, and a large quantity of property of the City has been collected in the gas companies' yards. Of this I have been obtaining an accurate inventory.

Criticisms might be made of the contracts under which the electric illuminating companies furnish light to the City. Unfortunately my requests for appropriations to enable me to test the quality of the gas and the candle power of the electric illuminant furnished were denied, so that it is not possible for the head of this Department to know whether these corporations comply with their contracts or not. I have instituted the practice of requiring the various corporations when they present their monthly bills to submit a stringent form of affidavit showing compliance upon their part, and this affidavit has already been attended with certain salutary effects. Heretofore the Department has been obliged to rely upon its gas and electric light inspectors and the police for information as to the number of lamps lighted for only a portion of a night or unlighted during an entire night.

The small corps of gas and electric light inspectors which the Department has at present cannot patrol this great metropolis to ascertain whether the companies furnish the lights required by their contracts, and the police reports are unsatisfactory, but the stringent affidavit has quickened the consciences of the officers of the corporations, so that they now make returns, deducting for lamps unlighted. The City is entitled to a rebate, when a light is unlighted for an entire night or even for a portion of the night. It seems to me of the utmost importance that contracts in all the departments should be uniform, as far as possible. I have found great diversity in the forms of contracts even in this Department in the various boroughs, and have aimed to reduce them to similarity, as far as practicable.

If the various civic organizations of the city would give attention to the matter of lighting, and citizens would report failures to light, and furnish satisfactory proof of the same, this Department would be better enabled to hold the corporations to performance of their obligations.

Repeated applications are received at the Department from gas and electric light companies for permits to open the streets to lay gas mains, to erect poles, and string aerial wires or construct subways. Considerable time has been given to the preparation of permits so worded as to protect the City, and these permits have been made uniform, as far as possible, in all the boroughs. The Department has insisted, in each of these permits, that the applicant, in accepting it, shall agree to indemnify the City against all liability whatsoever arising from his acts in opening the street, or in failing to repair or repave. The stringency of the clauses in some of these permits has been made the subject of complaint by several corporations, but the department has been firm in its resolution, and has found that the corporations have finally accepted the permits upon the terms upon which they have been issued.

Public Lamp Service.

LAMPS LIGHTED ON JANUARY 1, 1902.

Gas lamps	23,586
Electric lamps	4,890
Naphtha lamps	1,623
Welsbach naphtha lamps	760

Total..... 30,859

New gas lamps lighted..... 80

New electric lamps lighted..... 2

Old gas lamps relighted..... 81

..... 192

..... 31,133

Gas lamps temporarily discontinued..... 185

Naphtha lamps discontinued..... 3

..... 188

Total number of lamps lighted March 31, 1902..... 30,945

WORK OF THE ELECTRICAL BUREAU.

Applications for inspection of interior electric wiring, pending January 1, 1902..... 1,816

Received during quarter..... 3,696

Disposal of..... 3,807

Pending on March 31..... 1,705

Certificates issued for interior wiring..... 3,554

Number of lamps covered by certificates..... 105,201

Number of motors covered by certificates..... 1,119

Number of generators covered by certificates..... 45

Permits issued: For signal wiring..... 480

For electric lighting..... 198

For pole lines..... 38

For pneumatic tubes..... 1

For resetting poles..... 1

For underground conductors..... 440

For subsidiary connections..... 405

For subways..... 43

Total permits..... 1,615

COMPLAINT NOTICES ISSUED TO COMPANIES.

Pending January 1..... 664

Issued during the quarter..... 866

Attended to during the quarter..... 552

Unattended to at close of quarter..... 978

Inspections made by sixteen department inspectors..... 16,660

Overhead wires removed by inspectors, miles..... 9,981

The rules and regulations which had been established by the Department of Public Buildings, Lighting and Supplies for the construction, care and operation of poles, wires, conduits, subways and all other electrical appliances on, over and under the streets and in houses, have been carefully studied and revised for the purpose of in-

surging better and safer service, and will at an early day be submitted to the Board of Aldermen, to be embodied in an ordinance.

BOROUGH OF BROOKLYN.

Water Supply.

The rainfall recorded at the Hempstead reservoir, which is about the centre of the present Long Island watershed, was 2.17 inches in January; 4.99 inches in February, and 5.01 inches in March; total 12.17 inches, being an increase of 2.22 inches over the rainfall for the first quarter of 1901. This abundant rain filled all the ponds and raised the spring level above the normal, affording ample supply, without the need of drawing on driven wells in the easterly watershed, thus saving part of the expenses of their operation.

At the close of the quarter, the Hempstead, Ridgewood, Mt. Prospect and New Lots Reservoirs contained 1,081,995,800 gallons of water, or about eleven days supply, a gain of 450,501,600 gallons since January 1st, 1902. The contrast between Manhattan and Brooklyn conditions is startling, for while Manhattan has 150 days' supply ahead, Brooklyn has but eleven. This condition of water supply, unfavorable as it would be deemed in Manhattan, but compared with her general average, favorable as it is for Brooklyn, gives no assurance of continuance for the remainder of the year and several succeeding years, for the reason that during five years past the annual rainfall, except in 1900, has been above the average since 1826, from which date the records of rainfall are available, and these records show alternating cycles of five years of high and low rainfall. Should this experience be now repeated, we are at or near the beginning of a cycle of low rainfall, during which the supply from the present Long Island watershed will become utterly inadequate.

The daily consumption of water from the Ridgewood system (Long Island watershed) was as follows: In January, 94,406,078 gallons; in February, 95,333,109 gallons; in March, 91,802,147 gallons; average for the quarter, 93,707,578 gallons.

From the three local pumping stations at New Lots, Gravesend and New Utrecht: In January, 7,385,106 gallons; in February, 8,546,436 gallons; in March, 8,004,290 gallons; average for the quarter, 7,994,127 gallons. The total average daily supply and consumption in the Borough of Brooklyn for the quarter was 101,791,705 gallons, an increase of 7,408,455 gallons over the average supply and consumption for the first quarter of 1901.

The construction and installation of the mechanical filter plant at Baiseley's and Springfield Ponds, under the contract made last year, has not progressed beyond experimental operation of the plant at Baiseley's and the near completion of the plant at Springfield. Extensive changes have been and are yet to be made by the contractor to meet the contract requirements.

The expectation of the Chief Engineer for Brooklyn and Queens is that 5,000,000 gallons per day will be derived from Baiseley's and about 3,000,000 from Springfield if the plants be successful. The subject needs most careful investigation, and the plants should not be accepted, if their method is experimental or it should appear that they cannot adequately filter these waters.

In the prosecution of measures for the sanitary protection of the water supply, closets and cess-pools have been inspected near Foster's Meadow stream, Springfield stream, Valley stream, Schodack brook, Pine's brook, Millburn stream, East Meadow stream, Wataugh stream, at Hempstead and along the conduit line, the total number being 4,108.

Progress under the contract for the 48-inch pipe conduit from Millburn to Spring Creek has been slow, because of severity of weather, but in greater part because of the tardiness of the contractor. In January about 7,300 feet of pipe were laid, but had to be left in open trench until tested, with consequent extensive damage by floods in the latter part of February. On March 31st the line had been completed a little more than half the distance between the Millburn engine house and the Spring creek gate chamber. Every effort is being made to compel the contractor to complete the work by December next, to which time the completion of the contract was extended by my predecessor.

The report of the Chief Engineer for the Boroughs of Brooklyn and Queens, which is one of the documents hereto appended, gives numerous details concerning the condition of the plants at the several pumping stations on the conduit line, which need not be repeated here, except as to some of the more important features.

The pumping plant at Millburn has continuously furnished about forty-eight million gallons per day, with much less jar to the machinery since the additional 48-inch main from that station to the Millburn efflux chamber, laid under the Masterson contract, was put in service.

Complete reconstruction of the pumping plant at Spring Creek is necessary and was included in my estimate of April 2d for bond issues, for which partial provision has since been made.

The laying of water mains to extend and improve the distribution of water has been confined to the prosecution of work under an unfinished contract made by the last administration and includes the laying of 6,647 linear feet of mains, in connection with which twenty-six water gates or stopcocks and twenty-two fire hydrants were placed. A new contract was made April 7th for 8,750 linear feet of 12-inch mains, 19,400 linear feet of 8-inch mains and 38,200 linear feet of 6-inch mains, in fifty-six different streets, principally in the southerly and southwesterly sections of the borough. These water mains were authorized by ordinances of the Municipal Assembly toward the close of last year, and the contract is charged to the unexpended balance of last year's appropriation.

The problem of extending and improving the distributing system includes not only the laying of two or more lines of large mains from the Ridgewood reservoir and the extension of service mains into new streets, but also a better and more definite delineation of the boundaries between the high service from the Mount Prospect tower, the intermediate service from the Mount Prospect reservoir, and the ordinary or low service from the Ridgewood reservoir. Sufficient progress has been made in a careful and thorough examination of the water gates along the present boundary lines and of the pressures at the various points to indicate that by rearrangement of the gates and connections, the supply necessary to be pumped into the Mt. Prospect Reservoir might be reduced about 1,500,000 gallons per day, and that pumped into the tower 500,000,000 gallons per day, and the pressure and service improved at locations where high and intermediate high service are needed. The examinations herein referred to have been continued to enable the engineers to locate the additional large distributing mains.

In table No. 3 of the Chief Engineer's report will be found a list of sixty-eight streets for which water main extensions have been petitioned and which have been favorably reported upon, involving an estimated cost of \$90,277.

A contract has been made with the Flatbush Water Works Company by which it is to supply hydrant and street sprinkling service in the Thirtieth Ward of the Borough of Brooklyn at the sum of \$25,000, for the next two years, being a reduction from the amount previously paid the company of \$5,000 per year.

Contracts have also been made for 52,800 tons of anthracite coal, at \$4.72 per ton, and 3,500 tons of semi-bituminous coal, at \$3.35 per ton, for the Brooklyn pumping stations.

A contract for 17,000 tons of semi-bituminous coal for these stations, at \$4.07½ per ton, was signed by the Commissioner of Water Supply, December 27th, 1901.

The new or easterly section of the Brooklyn watershed, which extends from Rockville Centre to Massapequa, runs through a much more sparsely populated country than the westerly watershed occupies, and its ponds and streams appear to be in most excellent condition.

The westerly or old watershed, containing such ponds as Springfield and Baiseley's, and such streams as Horse brook, which flows into Hempstead Reservoir, can be rendered safe for use only by careful patrol and filtration.

The easterly watershed consists of a number of ponds and of driven well stations in the vicinity of the ponds, all of which deliver their supplies into a brick conduit running from Massapequa to the Millburn pumping station, the water being conveyed by gravity to the pumping station. At this point pumping commences, because of the necessity of elevating these easterly supplies to the level of the pipes and conduits which convey the water westward to Ridgewood and the borough's distributing system. The plant at the Millburn pumping station consists of two batteries of five boilers each and of five pumping engines, each with an average capacity of about ten million gallons per day. There has recently been prepared and approved, and there is shortly to be let, a new contract for the construction of two additional pumps at this station, each with an average capacity of fifteen million gallons per day, and the Board of Estimate and Apportionment has recently appropriated moneys for the construction of two additional boilers. When the new pumping engines and boilers shall have been installed, which will not be for about a year, the Millburn pumping station will have

an average pumping capacity of about eighty million gallons per day. This will enable it to take care of all present easterly sources of supply and of such additional sources as may be obtained from Suffolk county or the easterly watershed during the next few years. The water which Brooklyn derives from her easterly watershed is, as analysis shows, pure and wholesome. The water from the ponds, which are mainly spring fed, as well as the ground water, procured from the driven well stations, has undergone natural filtration through sand and gravel of the sub-soil. With the development of population in the zone between Rockville Centre and Amityville such dangerous conditions might arise as have to be guarded against in the westerly watershed, but these are not to be expected for some time to come. The natural extension of the system into Suffolk county, where the same gravel formation, the same kind of ponds and streams and the same ground water are to be found. Unless it be more expensive to construct and maintain well stations, it would seem safer and better that further easterly supplies be obtained from driven well stations, because of the elimination of ground water from danger of contamination. The employment of driven well stations reduces the necessity for the construction of storage reservoirs. Mr. John R. Freeman, in his report to Comptroller Coler in the spring of 1900, speaking of the Long Island watershed, says, page 537:

"I am inclined to regard the underground water stored in the interstices of the saturated yellow gravel above the blue clay as affording the very best of storage, ample in volume, removed from pollution and in many ways cheaper and better than the storage to be obtained from surface ponds or reservoirs."

At page 538, he says:

"The ground water from the shallow wells 30 to 70 feet deep, but not penetrating the blue clay, may be found preferable to a development of the surface water."

Inasmuch as the Corporation Counsel has determined that the City is not barred by the act, chapter 942, Laws of 1896, from seeking surface water in Suffolk county, and as it is the common opinion that the act does not interfere with the use of underground supplies, this question should be thoroughly studied by competent engineers, so that the wisest and most economical extension of the Brooklyn water system may be determined upon.

The Millburn Reservoir, which lies almost en route from Millburn pumping station to Ridgewood, is now being repaired so that it will retain water. The grouting of the slopes is in progress, and a contract for concreting the slopes and the bottom will shortly be advertised. This reservoir, when completed, will add 350,000,000 gallons to the Brooklyn storage system. The water which comes through the pipes and mains from the Millburn pumping station, with accessions received from the various ponds and streams west of that station, has to be pumped at Ridgewood into the Ridgewood Reservoir, from which it flows into the distributing system of the borough, but, for the service of the district in the neighborhood of Prospect Park, the water has to be pumped again at the Mount Prospect pumping station. The Brooklyn water system is a natural evolution, manifestly ephemeral in character.

The south shore of Long Island in the future will become thickly settled, and even worse conditions than exist in the westerly or old watershed may arise in that day. No great community should derive its water supply from surface ponds and streams in the vicinity of villages or towns, where purer water is available, and as it seems doubtful whether the driven well supply could be increased to such an extent as to meet future requirements, the problem for Brooklyn, as for Manhattan, is to seek future sources elsewhere. The borough problem is thus merged in the problem of the Greater City. Wise and sagacious consideration of this problem should not be delayed.

Gas and Electricity.

Owing to the partial disorganization already referred to in this report, which applied more particularly to this branch of the business of the department, the reports which I have received are merely statistical. These appear on tables 3 and 4, attached to the Chief Engineer's report, which I summarize as follows:

	Lighted January 1, 1902.	Added During the Quarter.	Discontinued During the Quarter.	Lighted March 31, 1902.
Gas Lamps	10,613	105	43	10,675
Electric lamps	4,863	10	11	4,862
Welsbach lamps	3,663	76	—	3,739
Naphtha	359	—	—	359
Totals	19,498	191	54	19,635

Permits Granted.

For overhead wires	991
For subway construction	98
For underground conduits	44
For erection of poles	192

During the quarter 44 1-3 miles of overhead wires were removed; 149 poles removed, 0.704 miles of subways and ducts constructed, and 2,951 1-3 miles of electrical conductors placed in subways.

Certificates were issued for the installation of 19,885 incandescent lights, 152 arc lights, electric motors of 755 H. P., electric generators of 55,585 K. W., and miscellaneous appliances of 23,675 K. W.

The Bureau of Gas and Electricity made 4,491 inspections and 11 photometric tests of illuminating gas.

There were received 5,580 reports from the Police Department of public lamps temporarily extinguished, from which were tabulated 16,391 cases of electric lamps and 1,049 gas lamps not burning as per contract, and corresponding reductions were made in the bills of the several gas and electric companies.

During the month of March I held conferences with the Brooklyn Rapid Transit Company, the Coney Island and Brooklyn Railway Company, the N. Y. and N. J. Telephone Company, the Postal Telegraph Cable Company, the Western Union Telegraph Company and the Brooklyn Edison Electric Illuminating Company with regard to their co-operation with the city authorities in bringing about speedy relief in the more populous parts of the borough from the dangerous conditions due to the presence of a great variety of overhead wires in the streets, and have obtained information upon the subject, which will be embraced in the report of the proceedings of this department for the second quarter of the year.

BOROUGH OF QUEENS.

Water Supply.

Abundant rainfall has enabled the department adequately to supply all demands on the water service in the First and Third Wards from the city's pumping stations in Long Island City, Flushing, College Point and Whitestone, and from the supply furnished in the First Ward under a contract with the Citizens' Water Supply Company.

The following statement shows the average daily quantity of water pumped and distributed for the first quarters of 1901 and 1902:

Pumping Stations	First Quarter, 1901. Gallons.	First Quarter, 1902. Gallons.	Increase. Gallons.
First Ward	2,472,000	2,832,827	360,827
Third Ward	2,067,500	2,448,792	381,292
Citizens' Company, First Ward	3,146,500	3,471,111	324,611
	7,686,000	8,752,730	1,066,730

On the consolidation of Greater New York, the three pumping plants and well stations in the First Ward, former Long Island City, were turned over to the Department of Water Supply in such a poor condition that they were practically useless. To a less degree this was the condition of the pumping stations in the Third Ward—Flushing, College Point and Whitestone—(See first annual report, Department of Water Supply.) Only partial repairs, because of inadequate appropriations, could be made in the past four years, and much remains to be done to develop and utilize the natural capacities of the available sources of supply.

No other section of the City is more susceptible of rapid development by liberal public improvements, of which the water service is of first importance. Private enterprise and investment in building are far ahead of advancement in public improvements, and should be fostered, instead of retarded or discouraged.

The contract of June 27, 1901, for laying 2,200 feet of 12-inch water mains and 18,000 feet of 6-inch mains, is practically completed. During the past quarter 160 feet of 12-inch and 6,608 feet of 6-inch mains were laid.

My estimate of April 2 of bond issues required for 1902 included \$115,000 for mains in the First and Third Wards, and \$30,000 for new pumping engines at the College Point and Flushing Stations. I have since been allowed \$57,500 for water main extensions.

More than two-thirds of the territory of the borough has to rely on private water companies for water supply. The Second Ward, former Town of Newtown, is supplied by the Citizens' Water Supply Company, which also has the contract for the auxiliary supply in Long Island City. The Fourth Ward, Jamaica, Richmond Hill and Woodhaven, is supplied by the Jamaica, the Woodhaven and the Wyckoff Heights Water Companies; the Fifth Ward, Far Rockaway, Arverne and Rockaway Beach, is supplied by the Queens County Water Company.

Any plan for future water supply for the Greater City should be of sufficient scope ultimately to displace all private water supply, by the City's own service.

Negotiations, involving much time and correspondence, are still under way with the Citizens' Water Supply Company for renewal of the contract for water supply in Long Island City, and with the Jamaica Water Supply Company and the Queens County Water Company for renewal of contracts for fire hydrant service, from which I confidently expect a saving to the City of many thousand dollars.

I am also preparing a new form of contract upon which I intend to advertise for bids from private water companies for water to be delivered into city mains in the Borough of Queens and the Borough of Brooklyn, where additional supply is much needed. The conditions of the contract will admit of the widest practicable competition in bidding.

Gas and Electricity.

As the subject of public lighting and supervision of gas and electric service was under the Department of Public Buildings, Lighting and Supplies prior to January 1, 1902, comparisons of the service with preceding periods cannot be made in this report.

At the close of last quarter there were in service in the Borough of Queens:

- 2,111 electric arc lamps.
- 160 electric incandescent lamps.
- 3,801 open-flame gas lamps.
- 257 Welsbach gas lamps.
- 612 Welsbach naphtha lamps.
- 17 Open flame naphtha lamps.
- Total, 6,958 public street lamps.

BOROUGH OF RICHMOND.

The water supply furnished by the small pumping plant at Tottenville, owned and operated by the City, is obtained from two 10-inch wells, an 8-inch well and a 6-inch well. The water is pumped from the wells into a small reservoir and thence into a standpipe, from which it is distributed through 6.10 miles of water mains. The average daily supply pumped and distributed during the quarter was 123,750 gallons, an increase of 20,400 gallons over the supply for the first quarter of 1901.

On September 17, 1901, the Commissioner of Water Supply entered into a contract for the construction of four additional 10-inch wells, with pumps and connections to deliver the water into the reservoir. Two of the wells were completed near the close of the last quarter and the other two will be completed by the close of the present quarter. It is estimated that a daily supply of 300,000 gallons will be obtained from these wells.

On January 17 of this year a contract was executed for laying 8,000 linear feet of additional 6-inch water mains. Inclement weather prevented prosecution of this work during the last quarter, but it is now very nearly completed.

These two works will more than treble the present public supply and enable the Department to meet urgent demands for City water service in that section of the borough.

Other parts of the borough are supplied by two private water companies, the Staten Island Water Supply Company and the Crystal Water Company. Repeated complaints of unsatisfactory service on high grounds, particularly of that of the Staten Island Water Supply Company in the villages of New Brighton and Port Richmond, have been received from residents and from the Fire Department, the pressures being at times not sufficient to deliver water in houses and through hydrants. All of the several contracts of the two companies with former town and village authorities for fire hydrant service expire this year, and I confidently expect that in negotiations for new contracts I shall not only be able to secure reductions in the charges, but more efficient service throughout.

In a communication, which I addressed to the Board of Estimate and Apportionment on the 2d of April, relative to bond issues for water supply purposes, I urged appropriations for certain urgently needed works, and, in a separate tabulation, presented those for which appropriations should undoubtedly be made during the present year. That Board, I regret to say, has not found it expedient to allot the bond issues desired, and in consequence nearly all the work of improving the existing water system in Brooklyn is likely to be delayed for another year at least. Work upon the Millburn Reservoir, the construction of the new pumping engines and boilers at the Millburn pumping station will proceed; a filter plant at the Hempstead Reservoir will be constructed and some additional driven well stations established, but beyond this none of the urgently required work can be started. The distributing reservoir at Forest Park, for the construction of which an act of the Legislature was obtained more than a year ago, cannot be begun, nor can the remodeling of the various plants and pumping stations, which is so necessary to be commenced, nor can half the necessary new water mains be laid. The head of this Department must be excused from all responsibility, if disastrous results should ensue from the refusal of the Board to grant these most necessary appropriations. There is nothing to add to the arguments presented by me to the Board in my report aforesaid. In view of the Corporation Counsel's opinion regarding the so-called "Burr" law, surveys are now in progress and other work will be instituted, looking to an initial extension of the Brooklyn water system into Suffolk County; but these matters more properly form subjects of the next quarterly report.

It is to be regretted that the opinion of the Supreme Court of the United States, in the Byram River case, has not been so far reaching as to enable the City to avail itself of the Ten-mile River and Housatonic River, as sources of future supply. The promptness with which great additional supplies could be drawn from these sources, and the cheapness at which they could be obtained, are well known to the public, through numerous reports from distinguished engineers. Regarding the subject of additional supply, of metering and of suppression of undue waste, there is nothing to add at this time, but I should hope that when the next quarterly report comes to be presented, substantial progress will be made in these directions.

The most difficult and, in a sense, the most important task, is to arouse the intelligent public and press, to some appreciation of the perils of water shortage which beset all parts of the city, and to the necessity of the earliest possible adoption of broad-minded measures, upon an appropriate scale, for an increase of water supply sufficient to serve the City's needs for a generation to come.

While the preparation of this report has been deferred by pressure of departmental business, it is to be remembered that it covers a period which was largely spent in the work of organization, the beneficial results of which, if not strikingly impressive, should nevertheless be of a permanent nature.

Many matters of interest have been reserved for consideration in the report for the quarter ending July 1, as they more particularly belong to the record of that quarter.

REVENUE FROM THE WATER SERVICE.

(Being amounts collected by the Department and paid into the City Treasury.)

BOROUGH OF MANHATTAN AND THE BRONX.

Annual frontage and extra rates.....	\$67,202 10
Penalties on deferred payments of annual rates.....	2,904 85
Meter rates for water supplied in buildings.....	731,935 28
Meter rates for water supplied to shipping.....	41,043 93
Charges for water supplied to shipping, not metered.....	4,588 75
Charges for water supplied for building purposes.....	9,963 50
Charges for water supplied for miscellaneous purposes, and for pairs.....	2,572 94
Charges for permits to tap water mains.....	1,342 50
	<hr/>
	\$861,553 85

Receipts for the first quarter of 1901..... 736,084 87

Increase..... \$125,468 98

BOROUGH OF BROOKLYN.

Annual frontage and extra rates.....	\$42,528 24
Penalties on deferred payments of annual rates.....	5,821 90
Meter rates.....	90,866 16
Charges for water supplied for building purposes.....	3,394 73
Arrears of water rents.....	28,426 60
Charges for permits to tap water mains.....	1,770 50
Miscellaneous receipts.....	304 77
	<hr/>
	\$173,112 99

Receipts for the first quarter of 1901..... 286,803 59

Decrease..... \$113,690 60

The Water Registrar explains the decrease by stating that, by order of the then Deputy Commissioner of Water Supply for the Borough of Brooklyn, the meter bills accruing in 1900 were not mailed to consumers until January, 1901, which accounts for large receipts on meter bills in the first quarter of that year, \$206,222.75, as against \$90,866.16 for the last quarter. The reasons for such order are not given and are not apparent on any conceivable ground.

BOROUGH OF QUEENS.

Annual rates and meter rates.....	\$33,768 07
Penalties on deferred payments on annual rates.....	41 52
Charges for permits to tap water mains.....	133 00
	<hr/>
	\$33,942 59

Receipts for the first quarter of 1901..... 27,571 24

Increase..... \$6,371 35

The Deputy Commissioner for the Borough of Queens reports that water rates accruing after May 1, 1900, practically remained uncollected, until some of the bills for 1900 were sent out in October, 1901. This was probably due to lack of clerical force to enter up the charges under the uniform scale of water rents, which took effect May 1, 1900, in place of the varying rates of former Long Island City and the villages of Flushing, College Point and Whitestone, which remained in force up to May 1, 1900. The effect has been to throw upon the present clerical force a large amount of extra work, and to retard collections of water rates this year.

BOROUGH OF RICHMOND.

Annual rates.....	\$14 18
	<hr/>
	\$14 18

SUMMARY OF EXPENDITURES.

(Being amount of vouchers certified to the Comptroller.)

On account of appropriations in the tax levy of 1902—	
Boroughs of Manhattan and The Bronx.....	\$166,404 85
Borough of Brooklyn.....	33,028 78
Borough of Queens.....	26,147 51
Borough of Richmond.....	3,527 51
	<hr/>
	\$229,108 65
On account of liabilities on appropriations of preceding years—	
Boroughs of Manhattan and The Bronx.....	\$133,011 06
Borough of Brooklyn.....	7,537 51
Borough of Queens.....	32,077 20
Borough of Richmond.....	16,498 40
	<hr/>
	189,124 17
On account of Brooklyn Water Revenue Fund—	
For maintenance of the water system.....	270,416 06
On account of funds from bond issues—	
Boroughs of Manhattan and The Bronx.....	\$652,254 76
Borough of Brooklyn.....	128,068 39
Borough of Queens.....	1,403 20
	<hr/>
	782,326 35
Total.....	<hr/>
	\$1,471,065 23

The following documents, appended to this report, give further details of the transactions of the Department:

- "A"—Summary statement of expenditures.
- "B"—Report of the Chief Engineer.
- "C"—Report of Chief Engineer for Brooklyn and Queens.
- "D"—Report of Water Register, Manhattan and The Bronx.
- "E"—Statement of receipts in Bureau of Water Register, Brooklyn.

Very respectfully,

J. HAMPDEN DOUGHERTY,
Commissioner of Water Supply, Gas and Electricity.

DOCUMENT "A."

Statement Showing Titles of Appropriations, Expenditures during Quarter Charged to Appropriations of 1901, Appropriations, 1902, Expenditures during Quarter Charged to Appropriations of 1902, Balances of Appropriations of 1902, March 31, 1902, also Titles of Special and Bond Accounts, Balances January 1, 1902, Credits during the Quarter, Expenditures during Quarter and Balances March 31, 1902.

Titles of Appropriations.	Expenditures During Quarter Charged to Appropriations of 1901.	Appropriations, 1902.	Expenditures During Quarter Charged to Appropriations of 1902.	Balance of Appropriations of 1902, March 31, 1902.
Boroughs of Manhattan and The Bronx.				
Salaries—General Administration.....	\$17,000 00	\$4,274 47	\$12,725 53
Salaries—Central Office.....	\$17 14	24,500 00	5,245 07
Salaries—Bureau of Chief Engineer.....	15,000 00	4,954 95	10,045 05
Salaries—Bureau of Water Register.....	30 00	119,425 00	23,389 67
Salaries—Croton Water System.....	34,930 00	8,598 56	26,331 44

Titles of Appropriations.	Expenditures During Quarter Charged to Appropriations of 1901.	Appropriations, 1902.	Expenditures During Quarter Charged to Appropriations of 1902.	Balance of Appropriations of 1902, March 31, 1902.
Salaries—Bronx River Works.....	.....	3,900 00	975 00	2,925 00
Salaries—Laying Croton Pipes.....	122 50	14,483 75	3,758 37	10,725 38
Salaries—Lighting and Electricity.....	.....	56,736 09	13,245 43	43,490 57
Salaries—Office of Deputy Commissioner and Water Register, Borough of The Bronx.....	.....	12,000 00	.....	12,000 00
Maintenance—Croton Water System... ..	14,838 69	310,274 50	47,812 15	262,462 35
Bronx River Works—Maintenance and Repairs	399 24	32,000 00	4,497 13	27,502 87
Supplies and Contingencies.....	437 66	9,087 00	980 74	8,106 26
For Additional Fire Hydrants.....	2,505 47	40,000 00	3,748 95	36,251 05
Public Drinking Hydrants.....	111 13	5,000 00	.....	5,000 00
Repairing and Renewal of Pipes, Stop-cocks, etc.....	20,652 09	260,000 00	44,562 86	215,437 14
Rentals of Fire Hydrants.....	.....	19,600 00	.....	19,600 00
Water Supply for the Twenty-fourth Ward	943 80	15,600 00	.....	15,600 00
Lamps and Lighting.....	69,363 98	1,361,512 50	851 50	1,360,662 00
Maintenance of Rivington Street Bath..	218 89	.....	.....	.....
Laying Croton Pipes.....	22,133 17	.....	.....	.....
Borough of Brooklyn.				
Salaries—Office of Deputy Commissioner .....	.....	11,100 00	1,979 24	9,120 76
Salaries—Office of Chief Engineer.....	.....	5,600 00	1,824 09	4,775 91
Salaries—Office of Water Register.....	.....	63,250 00	17,473 00	45,776 99
Salaries—Laboratory .....	.....	5,300 00	1,299 96	4,000 04
Salaries—Lighting and Electricity.....	.....	17,133 25	6,685 06	10,448 19
Supplies and Contingencies.....	37 51	5,000 00	691 69	5,308 31
Rentals of Fire Hydrants.....	7,200 00	25,000 00	.....	25,000 00
Lamps and Lighting.....	.....	900,848 60	124 80	900,723 80
Borough of Queens.				
Salaries—Office of Deputy Commissioner .....	.....	21,050 00	4,807 16	16,242 84
Salaries—Pumping Stations.....	.....	30,887 50	7,741 55	23,145 95
Salaries—Lighting and Electricity.....	.....	12,012 00	3,330 00	8,682 00
Pumping Stations—Fuel and Supplies..	8,653 97	28,500 00	742 88	27,757 12
Maintenance and Repairs of Water Pipes, etc.....	1,711 82	25,000 00	5,954 43	21,045 57
Supplying Water to Long Island City..	5,623 78	100,000 00	5,091 60	94,908 31
Rentals of Fire Hydrants	15,551 00	40,000 00	.....	40,000 00
Lamps and Lighting.....	.....	370,089 13	.....	370,089 13
Supplies and Contingencies.....	.....	2,500 00	.....	2,500 00
Laying Water Mains.....	816 63	.....	.....	.....
Borough of Richmond.				
Salaries—Office of Deputy Commissioner .....	.....	6,900 00	1,174 98	5,725 02
Salaries—Lighting and Electricity.....	.....	4,640 53	1,434 00	3,206 53
Pumping Stations—Fuel and Supplies..	326 00	7,100 00	606 64	6,493 36
Lamps and Lighting.....	.....	150,000 00	.....	150,000 00
Rentals of Fire Hydrants.....	15,875 00	30,050 50	.....	30,050 50
Supplies and Contingencies.....	87 40	500 00	10 00	489 10
Totals.....	\$187,886 87	\$4,133,202 43	\$120,198 65	\$4,013,003 78

Titles of Special and Bond Accounts.	Balances January 1, 1902.	Credits during Quarter ending March 31, 1902.	Expenditures during Quarter.	Balances March 31, 1902.
Boroughs of Manhattan and The Bronx, Additional Water Fund of The City of New York .....	.....	\$500,000 00	\$361,089 30	\$138,910 70
Water Fund—Manhattan and The Bronx	\$653,245 72	230,000 00	262,268 50	620,977 22
Water Main Fund, No. 3.....	439,670 06	.....	2,817 93	436,852 13
Revenue Bond Fund for Temporary Pumping Plant—Borough of The Bronx	48,739 40	.....	26,078 81	22,660 59
Borough of Brooklyn.				
Water Construction—Borough of Brooklyn	110,767 22	.....	10,277 98	100,489 24
Water Main Fund—Borough of Brooklyn	1,226,310 42	.....	98,687 07	1,127,623 35
Maintenance and Distribution of Water Supply in the Borough of Brooklyn	291,356 34	.....	19,702 44	271,653 90
Water Fund—Borough of Queens.....	99,108 75	.....	193 24	98,915 51
Revenue Bond Fund for Laying Water Mains in the Borough of Queens...	52,228 74	.....	1,299 98	50,928 76

Note.—For payment of liabilities of 1891 there was expended during the quarter \$584.09 on Laying Croton Pipes, 1891; liabilities of 1898, \$21.98 on Repairing and Renewal of Pipes, Stop Cocks, etc., 1898; liabilities of 1900, \$600 on Aqueduct Repairs and Maintenance, 1900; and \$31.23 on Repairing and Renewal of Pipes, Stop Cocks, etc., 1900.

DOCUMENT "B."

Department of Water Supply, Gas and Electricity,
Office of Chief Engineer, 13-21 Park Row,
New York, April 12, 1902.

J. HAMPDEN DOUGHERTY, Esq., Commissioner of Water Supply, Gas and Electricity:

Dear Sir—With this please find quarterly report of the operations of the Bureau of Chief Engineer ending March 31, 1902.

BOROUGH OF MANHATTAN AND THE BRONX.

Summary of Expenditures for the Quarter Ending March 31, 1902.

Additional fire hydrants.....	\$6,254 42
Additional water fund.....	413,154 18

Aqueduct repairs and maintenance.....	600 00
Bronx River Works, maintenance and repairs.....	4,896 37
Bureau of Chief Engineer, salaries.....	975 00
Contingencies	4,054 95
Croton Water System, maintenance.....	430 33
Croton Water System, salaries.....	62,846 00
Laying Croton pipes.....	8,598 56
Laying Croton pipes, salaries.....	25,034 96
Public drinking hydrants.....	3,880 87
Repairing and renewal of pipes, stop cocks, etc.....	111 13
Revenue Bond Fund (for temporary pumping plant, Borough of The Bronx).....	65,824 47
Water Fund, Boroughs of Manhattan and The Bronx.....	10,679 58
Water Main Fund No. 3.....	270,977 50
Water supply for the Twenty-fourth Ward.....	2,817 93
Rental of fire hydrants, Queens.....	943 80
Rental of fire hydrants, Richmond.....	20,651 00
	15,875 00
	\$918,632 05

Storage Reservoirs.

The Croton river has furnished a full supply to the aqueducts except for four days during the quarter. No storage water has been drawn. Eighty-one thousand four hundred and sixteen million gallons run over Croton dam. Forty-two thousand million gallons stored on March 31, 1902.

On February 28 and March 1 the heaviest freshet occurred in the Croton river since January 8, 1874. More or less damage has been done to the roads, which will largely increase the cost of maintenance of same by the County authorities and by this Department. The freshet of December 29, 1901, carried away the coping stone on the East Branch dam spillway, undermined the side retaining walls and filled up the channelway. Surveys are being made so as to let a contract for making the necessary repairs and improvements to spillway and channelways.

At West Branch dam the coping stone was also started, and an order will be made for resetting the same.

At Titicus dam more or less repairs will have to be made to the Spillway. The Electrozone plant at Brewsters and 167 dry pans at Mount Kisco have been operated during the quarter, taking care of the sewerage of these villages.

The temporary plant at Jerome Park reservoir has been operated continuously during the quarter, pumping an average of ten million gallons of water per day from the old Croton aqueduct into the Williamsbridge reservoir.

RAINFALL.

	January.	February.	March.	Total.
Boyd's Corners Reservoir.....	2.80	3.96	7.63	14.39
Middle Branch Reservoir.....	3.12	3.60	7.01	13.73
Kensico Reservoir	3.10	4.61	6.14	13.85
Croton Dam	3.06	4.28	5.96	13.30
Central Park Reservoir.....	1.81	3.38	4.37	9.56

Bronx and Byram River Supply.

The regular force has been employed taking care of ditches, culverts, roads, etc. The freshets have done but little damage to roads, etc., but will require additional rip-rap on banks, etc.

All of the storage reservoirs are full. No stored water drawn during the quarter. Storage on hand, 3,800 million gallons.

The United States Supreme Court has taken up the appeal from the Appellate Circuit Court and the same has been argued before the Court. The present suit can be argued upon as to damages, but the question of interstate water privileges should be determined, as the future supply of this city depends as to expenditures and adjacent watersheds on an early decision on this subject.

The supply from the Byram river is still shut off.

The contractor for the 48-inch main from old reservoir at Gun Hill road has only done a small amount of work during the winter; the extreme bad weather has almost stopped work. The consent of the New York Central Railroad for passage under their tracks north of Bedford Station of this road has not yet been signed. The necessary connections with the old aqueduct will have to be deferred until this main under railroad can be made.

The contract for a 48-inch main west of the aqueduct to supply the Harlem river valley and that portion of the Borough of Manhattan north of One Hundred and Ninetieth street has been entered into and the contractor is now delivering the pipe.

The contractor for foundations of pumping plant at Jerome Park Reservoir has not commenced work, having been stopped by the winter weather; was given notice to commence work March 10, 1902. The contractor for building engine, boiler and coal houses has been ordered to commence June 1, 1902. The contractor for tank and stand pipes has been ordered to commence work on May 1, 1902. The contractor for pumping plant has commenced work at shop, and the contract for laying mains to connect this pumping plant with the present mains in The Bronx has been entered into.

SUMMARY OF WORK DONE ALONG AQUEDUCTS DURING THE QUARTER.

Character of Work.	Div. No. 1.	Div. No. 2.	Div. No. 3.	Div. No. 4.	Div. No. 5.	Div. No. 6.	Div. No. 7.	Div. No. 8.	Total.
Earth excavation, cubic yards.....	.....	.....	40	.....	18	30	.....	.....	88
Rock quarried, cubic yards.....	.....	.....	90	.....	.....	.....	.....	.....	90
Dry stone masonry, cubic yards.....	1,268	157	57	.....	62	.....	.....	.....	1,544
Cement masonry, cubic yards.....	6	.....	.....	.....	33	.....	.....	.....	39
Brick masonry, cubic yards.....	.....	.....	3	.....	37	.....	.....	.....	40
Filling and Grading, cubic yards	30	.....	.....	.....	150	30	.....	.....	210
Tile drain, linear feet.....	.....	240	.....	.....	.....	.....	.....	.....	240
Fence built, linear feet.....	.....	.....	104	295	1,976	1,500	.....	.....	3,875
Fence repaired, linear feet.....	400	.....	.....	240	500	1,000	.....	.....	2,140
Fence painted, linear feet.....	.....	.....	.....	5,750	547	1,200	.....	.....	7,497
Fence posts set.....	.....	.....	.....	.....	64	.....	.....	.....	64
Coal house, platforms laid.....	.....	.....	.....	.....	.....	.....	.....	1,050	1,050
Manure spread, cubic yards.....	.....	.....	.....	.....	.....	250	109	.....	359

Croton Water System, Maintenance.

The water furnished the boroughs of Manhattan and Bronx from the Croton river has passed through the new aqueduct except that furnished through the old aqueduct for use of contractors at Cornell Reservoir and Jerome Park Reservoir; that furnished to Sing Sing Prison and that pumped from the old aqueduct north of Jerome Park Reservoir into the Williamsbridge Reservoir to supplement the supply from the Bronx river; total amount supplied through old aqueduct, twelve million gallons per day.

The three pumping stations have been operated to their full capacity. The several

gangs of men at reservoirs and along the old and new aqueducts have been employed taking care of reservoirs, roads, gate houses, conduits, culverts and ditches. The heavy freshets in the latter part of December, 1901, and in March, 1902, have caused more or less damage and will make necessary a large amount of work early in the spring.

The contractor for additional pumping machinery at One Hundred and Seventy-ninth Street Station is progressing slowly with the work in shop.

There is necessary a large amount of work on the boilers and pumping machinery at Ninety-eighth Street Pumping Station. Contracts and specifications for this work are now being printed.

The contractor on repairs of arch at Sing Sing and to gate house at High Bridge has completed the work at Sing Sing arch, and has most of the materials on hand for that at High Bridge.

A contract for coal for the several stations has been made.

Additional Water Fund, Etc.

Moneys having been appropriated under chapter 189, Laws of 1893, and under section 178 of the new Charter to pay for lands taken, damages and expenses, vouchers are being made for same, as per orders of the courts and advices from the Counsel to the Corporation. There having been no appropriations for nearly two years, there was a large accumulation, and have made out 363 vouchers in payment during the quarter. Several commissions are still taking testimony, and commissioners are still to be appointed in a number of cases where maps were filed in 1896 and 1897.

Laying Croton Pipes.

Contracts for laying and relaying water mains in the following streets and avenues have been completed during the quarter:

One Hundred and Forty-first street, between Southern Boulevard and Robbins avenue. (R.)*

Aqueduct avenue, between Kingsbridge road and High Bridge.

Anthony avenue, between One Hundred and Seventy-third and One Hundred and Seventy-fifth streets.

Belmont avenue, between One Hundred and Eighty-third street and Pelham avenue.

Brook avenue, between One Hundred and Sixty-fifth street and Wendover avenue.

Clinton avenue, between Oakland avenue and One Hundred and Eighty-second street.

Gerard avenue, between One Hundred and Fifty-first and One Hundred and Fifty-third streets.

Kingsbridge avenue, between Terrace View avenue and Van Corlear place.

Marcher avenue, between Boscebel avenue and Featherbed lane.

Mott avenue, between One Hundred and Thirty-eighth street and Railroad avenue.

Prospect avenue, between One Hundred and Sixty-ninth street and Boston road.

Railroad avenue, between One Hundred and Seventy-seventh and One Hundred and Seventy-ninth streets.

Terrace View avenue, between Kingsbridge avenue and Jansen street.

Terrace View avenue, between Broadway and Temmisen place.

Eighth avenue, between One Hundred and Fifty-eighth and One Hundred and Fifty-ninth streets.

Thirteenth avenue, between Twenty-third and Twenty-eighth streets.

One Hundred and Twenty-first street, between Broadway and Amsterdam avenue.

One Hundred and Fortieth street, between Seventh and Eighth avenues.

One Hundred and Fifty-fifth street, between Eighth avenue and Viaduct abutment.

One Hundred and Fifty-eighth street, between Sheridan and Mott avenues.

One Hundred and Seventy-second street, between Southern Boulevard and West Farms road.

One Hundred and Seventy-sixth street, between Jerome and Tremont avenues.

One Hundred and Eighty-second street, between Jerome and Aqueduct avenues.

Two Hundred and Thirty-fifth street, between Keppler and Mount Vernon avenues.

Two Hundred and Thirty-ninth street, between Keppler and Katonah avenues.

Two Hundred and Fortieth street, between Katonah and Mount Vernon avenues.

Jansen street, between Terrace View avenue and Wicker place.

Broadway, between One Hundred and Twentieth and One Hundred and Twenty-first streets.

West Farms road, between One Hundred and Seventy-second street and Boston road.

Crotona Park, South, between Crotona and Franklin avenues.

Loring place, between One Hundred and Eighty-third street and Fordham road.

Spring place, between Boston and Franklin avenues.

Featherbed lane, between Jerome and Aqueduct avenues.

Riverdale lane, between Riverdale avenue and Old Albany Post road.

Contracts for furnishing and laying mains in Jerome avenue, etc., etc.; for furnishing and laying mains in Amsterdam avenue, etc., and for laying mains in Van Cortlandt Park, etc., have been made.

Linear feet of pipe laid—

	Linear Feet.
48-inch.....	700
20-inch.....	378
16-inch.....	252
12-inch.....	3,709
6-inch.....	1,395

Total..... 6,634

Stopcocks set—

48-inch.....	2
12-inch.....	6
6-inch.....	9

Total..... 17

Hydrants placed—

"New York"..... 11

Placing New Hydrants and Repairs to Large Mains.

Two gangs of men have been employed during the quarter placing new hydrants, relaying and repairing mains, stopcocks and hydrants, shutting off taps, etc. The amount of work done is as follows:

Linear feet of new 6-inch pipe laid.....	25
Linear feet of new 4-inch pipe laid.....	43
Additional "New York" hydrants placed.....	7
"New York" hydrants replaced.....	10
"No. 1" hydrants replaced.....	5
"New York" hydrants set in place of defective hydrants.....	18
"No. 1" hydrant set in place of defective hydrant.....	1
"A" hydrants set in place of defective hydrants.....	2
"Double Nozzle A" hydrant set in place of defective hydrant.....	1
Hydrants repaired.....	35
Hydrants greased.....	4
New 12-inch stopcocks and boxes set.....	3
New 6-inch stopcocks and boxes set.....	3
6-inch stopcocks replaced.....	2
12-inch stopcocks repaired.....	5
6-inch stopcocks repaired.....	8
48-inch main repaired.....	1
6-inch mains repaired.....	2

*(R.)—Mains reset and replacing others.

4-inch stopcock cleaned and oiled.....	1
6-inch stopcocks cleaned and oiled.....	23
12-inch stopcocks cleaned and oiled.....	23
20-inch stopcocks cleaned and oiled.....	35
24-inch stopcock cleaned and oiled.....	1
30-inch stopcocks cleaned and oiled.....	3
36-inch stopcocks cleaned and oiled.....	20
48-inch stopcocks cleaned and oiled.....	9
Taps shut off.....	4

A contract has been made for furnishing double nozzle case hydrants and lead-lined iron pipe.

Repairing and Renewal of Pipes, Etc.

Six repair gangs are employed in replacing hydrants, stopcocks, etc., and repairing pipes, hydrants, stopcocks, etc., and also act as shut-off gangs where leakage occurs in service pipes, etc. Also a gang is employed tapping mains where necessary for new houses. A large number of connections for new buildings where they are of large size are from 2-inch to 4-inch, and are made by the Smith or Ely patent connections, which can be done without shutting off the water. Smith or Ely patent connections, which can be done without shutting off the water, and consist of a sleeve around the main and a stopcock on same with a hole bored in the main. All are classed as taps, which usually are from ½ inch to 1 inch opening.

Repairs to drinking hydrants for man and beast are repaired by orders to plumbers.

Work Done During Quarter.

New hydrants set.....	160
Old hydrants repaired.....	2,862
New stopcocks set.....	15
Stopcocks repaired.....	460
Repairs to mains.....	239
Taps shut off, service pipes leaking.....	303
Hydrants found improperly closed.....	699
Drinking hydrants repaired.....	14
Taps shut off for non-payment of building rates and tampering with meters.....	17
Permits issued to tap mains.....	388

The use of hydrants by contractors for city work, by contractors Rapid Transit Tunnel, by parties excavating rock on private property, by the several city departments and for sprinkling involves this Department in a large amount of work keeping same in order. This is not allowed by any other city in this country, but has grown up by custom.

All parties using hydrants should have separate connections with mains or special valve connections with certain hydrants used, which should be taken care of and repaired by the parties using same.

The hydrants are placed for fire purposes and are not so constructed that they will stand every day use like smaller valves or cocks, and as the repairs involve the labor of digging up and restoring pavements, flagging, etc., at a large expense, some means should be taken to restrict the use of same by other parties in order to protect this Department and the Fire Department.

The six-inch wrought iron water main under the Harlem river from One Hundred and Eleventh street to Ward's Island was broken on January 17, 1902, by either a heavy draft vessel or by an anchor. Owing to ice in river nothing could be economically done in repairing same at that time; have made a requisition for diver to make examinations of the pipe so as to know what is necessary to repair same.

Contracts have been entered into for furnishing stopcocks, hydrants, etc.; for furnishing tapping cocks, etc., and for furnishing white wood plugs, lead, etc.

Waste and Use of Water.

	Gallons.
January—	
Average daily use from Croton river.....	205,000,000
Average daily use from Bronx river.....	18,000,000
Total average, January.....	283,000,000
February—	
Average daily use from Croton river.....	268,000,000
Average daily use from Bronx river.....	20,000,000
Total average, February.....	288,000,000
March—	
Average daily use from Croton river.....	263,000,000
Average daily use from Bronx river.....	20,000,000
Total average, March.....	283,000,000

The increase in use has been in the supply from the Croton river in the Borough of The Bronx of 10 millions per day, and from the increased waste on account of the steady cold weather during the winter.

The continued disturbance and changes of mains caused by the Rapid Transit tunnel excavations continue, and from present progress of the work will continue for at least two years.

As soon as the necessary increase of pumping facilities and the Rapid Transit work are completed, and a full supply from Croton river to the Borough of The Bronx, supplementing that from the Bronx river, is assured, the increase will be about 30 millions per day from the Croton river, showing the immediate necessity of the completion of the Cornell Reservoir and the Jerome Park Reservoir by the Aqueduct Commission.

In order to operate the Jerome Park Pumping Station it will be necessary for the Aqueduct Commission to make the connections at the gate house of Jerome Park Reservoir opposite Two Hundred and Fourth street, between the 48-inch mains on Two Hundred and Fourth street and the 48-inch main on Jerome avenue, leading to Pumping Station.

BOROUGH OF RICHMOND.

Summary of Expenditures for the Quarter Ending March 31, 1902.

Contingencies.....	\$98 30
Pumping stations, salaries and supplies.....	1,934 64
Salaries, Office of Deputy Commissioner.....	1,174 98
Total.....	\$3,207 92

The contract for placing four 10-inch wells and pumping machinery has been carried on slowly on account of the cold and stormy weather during the winter. During the month of April the necessary tests will be made.

The contractor for furnishing and laying water mains has most of the pipes, etc., made, and they will be delivered in a few days and the laying of same commenced.

It is necessary that a 100 horse-power boiler be installed with the necessary appurtenances and connections, and extensions of the buildings to accommodate same. The old boilers require more or less repairs to connections and to brick setting. Before this can be done the new boiler should be placed, as it would not be safe to leave all of houses without water for two days.

There has been furnished during the quarter an average of 123,750 gallons per day.

Three taps placed during the quarter.

There is required another engineman and one fireman. The laborers should also be paid by month, so as to do away with the small weekly payroll.

Respectfully yours,

GEO. W. BIRDSALL, Chief Engineer.

DOCUMENT "C."

OFFICE OF CHIEF ENGINEER, DEPARTMENT WATER SUPPLY, GAS AND ELECTRICITY, BOROUGHS OF BROOKLYN AND QUEENS.

Report for Quarter Ending March 31, 1902.

City of New York, Boroughs of Brooklyn and Queens,
Department of Water Supply, Gas and Electricity
Chief Engineer's Office, Room 41, Municipal Building,
Brooklyn, N. Y., April 19, 1902.

Hon. J. HAMPDEN DOUGHERTY, Commissioner:

Dear Sir—I submit herewith report showing condition of water supply in the boroughs of Brooklyn and Queens, and the work done in connection with the same, and also the work done by the Bureaus of Lighting and Gas and Electricity during the quarter ending March 31, 1902, as well as a statement of receipts and expenditures during these three months, in the Borough of Brooklyn:

STATEMENT OF RECEIPTS AND EXPENDITURES.

Receipts.	
Regular water rates.....	\$42,528 24
Tax Collector.....	24,471 42
Metered water rates.....	90,866 16
Default water rates.....	5,821 90
Building purposes.....	3,394 73
Water permits.....	1,770 50
Arrears.....	28,426 69
Miscellaneous.....	304 77
Total receipts.....	\$197,584 41
Expenditures.	
Water revenue—	
Maintenance and repairs—	
Salaries and wages.....	\$118,350 90
Materials and supplies.....	108,022 76
Distribution and repairs—	
Salaries and wages.....	47,561 89
Materials and supplies.....	3,950 63
Revenue refund.....	486 72
	\$277,886 18
	486 72
	\$278,372 90
Tax levy—	
Salaries—	
Office Deputy Commissioner.....	\$1,979 22
Office Chief Engineer.....	1,824 99
Office Water Registrar.....	17,423 06
Laboratory.....	1,299 96
Lighting and electricity.....	9,685 06
	\$32,212 29
Supplies—	
Contingencies.....	\$1,935 65
Fire hydrants.....	7,500 00
	9,435 65
	41,647 94
Bond accounts—	
Salaries—	
Water Main Fund, Brooklyn.....	\$1,698 98
Water Construction, Brooklyn.....	3,931 50
Brooklyn Water Construction.....	3,581 98
	\$9,182 46
Supplies—	
Water Main Fund, Brooklyn.....	\$18,033 46
Water Construction, Brooklyn.....	97,058 62
Brooklyn Water Construction.....	6,666 00
	121,758 08
	130,970 54
Total expenditures.....	\$450,991 38

WATER SUPPLY, BOROUGH OF BROOKLYN.

CONSUMPTION.

Average Daily Consumption, United States Gallons.

System.	January.	February.	March.	Three Months.
Ridgewood Supply.....	84,172,984	84,871,238	82,428,140	83,797,573
Ridgewood, Low Service.....	6,996,268	7,204,907	6,147,039	6,768,872
Mount Prospect, Low Service.....	3,236,216	3,256,064	3,226,068	3,239,489
Total, Ridgewood.....	94,405,468	95,332,209	91,801,247	93,797,578
Gravesend.....	1,857,290	2,059,759	2,876,187	2,894,742
New Utrecht.....	1,547,161	1,544,000	1,515,497	1,535,771
New Lots.....	3,080,953	4,045,686	1,612,606	3,564,114
Total.....	101,891,184	103,879,343	99,806,437	101,797,798

Storage and Reservoirs, United States Gallons.

Reservoir.	Jan. 1, 1902.	April 1, 1902.	Gain.	Loss.
Ridgewood, Basin No. 1.....	45,951,509	50,284,300	330,800	.....
Ridgewood, Basin No. 2.....	58,299,700	58,598,400	299,300	.....
Ridgewood, Basin No. 3.....	100,959,400	101,879,000	919,600	.....
Mount Prospect.....	19,698,400	20,327,800	629,400	.....
Hempstead.....	298,919,000	247,428,000	448,509,000	.....
New Lots.....	5,664,800	3,478,300	.....	186,500
Total.....	631,494,200	1,081,995,800	450,501,600	.....

Rainfall—Inches.

Location.	January. 1901	January. 1902	February. 1901	February. 1902	March. 1901	March. 1902	Total. 1901	Total. 1902
Municipal Building.....	2.16	2.50	0.35	6.02	4.22	4.37	6.91	12.83
Hempstead Reservoir.....	2.21	2.27	0.77	4.99	6.97	5.01	9.95	12.17

The rainfall for this quarter has been in excess of the average rainfall, the amount for the quarter being at the rate of 48.68 inches per annum, which is about 5.5 inches greater than the average annual rainfall. This rain, following the excessive rain of December of last year, has filled all the ponds on the water shed and has raised the spring level above the normal, giving us an ample supply without drawing from the driven well stations on the new water shed. The total amount in storage on March 31 was 1,083,523,800 United States gallons, this being the maximum of storage since June 9, 1899, the gain being 452,029,600 United States gallons during the last quarter, or nearly one-half the amount at present in storage. While this shows a very satisfactory condition of the supply, it must nevertheless be remembered that the rainfall since 1896 has been above the average, except during the year 1900, when it was about 2 inches below the average. The rainfall records since 1826 show five years to be the maximum period during which the rainfall will be above the average. It would therefore be reasonable to expect a cycle of low rainfall, possibly beginning this year, during which our water shed, as at present developed, would not supply the requisite demand.

A heavy rainfall on February 25 and 26, when the ground was frozen and covered with snow, caused an unusually rapid run-off into the streams feeding the various ponds, and the flood waters washed across roadways, etc., but no serious damage resulted at any point. The water also rose at the conduit at different points, the culverts being of insufficient size to carry the flood water, and at Culvert O, near the Forest Stream Pumping Station, it was found necessary to put in a temporary wooden flume to allow the water to flow over the conduit. To obviate any future trouble at this point a paved channelway will be laid over the conduit, which will provide for the safe discharge of flood waters.

At the Valley Stream Branch conduit the water followed the line of the trench which has been opened by contractor William H. Masterson for laying the additional pipe conduit, and flowed across the embankment covering the branch conduit, eating away the earth for a distance of about 12 feet. The 48-inch pipe which had been laid by the contractor and which was not covered previous to being tested, was floated, causing a distortion of the line and grade at several points. Alterations in the latter have thereby been rendered necessary, and the consequent changes shall be made by the contractor and the line recalled before it is finally tested.

The quarter's analysis of the supply was as follows:

Average turbidity of tap water on silica scale.....	7.9
Average color of tap water on platinum scale.....	13.
Albuminoid ammonia in parts per million.....	0.052
Chlorine in parts per million.....	23.5
Bacteria per cc.....	381.

During January and the greater part of February the water was of normal quality, but the flood already referred to made it very turbid throughout the supply during the latter part of February and the first of March. No troublesome growths of organisms have been developed in the reservoirs, but cyclostella are beginning to appear in Mt. Prospect Reservoir.

Distribution.

The following work has been done in laying additional distribution pipes:

Water Mains Laid.	Twelve Inch.	Eight Inch.	Six Inch.	Total.
Lineal feet.....	3,084	1,542	2,021	6,647
Water Gates set.....	5	4	17	26
Fire Hydrants set.....	.....	.....	.....	22
Lineal feet of hydrant branches.....	.....	.....	.....	151

Favorable reports were made on petitions for twelve different streets and avenues, covering a total distance of 8,354 feet, and petitions for five streets were reported on favorably.

Pumping Stations.

MT. PROSPECT.

The pumping at Mount Prospect Station for the quarter has averaged about 150,000 gallons daily more for the reservoir and 340,000 gallons daily more for the tower than during the corresponding period of last year. With a view of reducing as much as possible the pumping at our Mount Prospect Station without impairing the efficiency of the service, I have had a careful examination made of the gates along the boundary between the Mount Prospect Reservoir and the Ridgewood Systems, and between the Mount Prospect Tower and the Mount Prospect Reservoir Systems, and this examination is now being carefully gone over and pressures are being taken covering the entire high service. As a result of this examination the pumping from the reservoir will be considerably reduced, since at several points gates were found open between the Ridgewood and Mount Prospect Systems, which allowed the supply from the Mount Prospect Reservoir to flow back into the Ridgewood System. The boundaries of the systems will be accurately determined and all gates between the systems will be tested and carefully closed. As far as the results already obtained indicate, there may be a reduction of about 1,500,000 gallons daily in the consumption from the Mount Prospect Reservoir, and of 500,000 gallons daily in the consumption from the Mount Prospect Tower. The determination of actual pressures, supplementing those obtained several years ago, will be continued, as far as our force may allow, over a large portion of the City, not only with a view to remedy the deficient supply as far as possible, but also to enable us to properly locate the additional distributing main, for which an appropriation has been asked, and which is required in order to give adequate pressure in many houses which suffer from lack of it.

With the exception of a few minor details, the contractors for the two new boilers at the Mount Prospect Station, Messrs. Williams & Gerstle, have practically completed their contract. It was necessary to shut down this entire plant in order to make the connection of the new breeching with the chimney. This work was done on the night of February 20, the actual shutdown lasting for two hours, during which time the tower district was supplied from the reservoir.

GRAVESEND AND NEW UTRECHT.

At Gravesend and New Utrecht there have been minor repairs made when necessary. The boilers in both of these stations will need to be renewed, the shells of boilers Nos. 1 and 3 at New Utrecht being badly pitted.

RIDGEWOOD OLD STATION.

Minor repairs have been made on the triple engines in the old Ridgewood Station, and general repairs are in progress on the No. 3 beam engine. The concrete flooring for the engine room on the north side has been nearly completed by our men. This flooring consists of four inches of concrete, finished with 1 inch of granolithic compound, sheets of expanded metal being embedded in the concrete.

The Morris boilers, Nos. 5, 7 and 9, in the old Ridgewood Station, have had St. John shaking grate bars installed; and boilers No. 1 and No. 3 will be similarly equipped. The brass feed pipes in these boilers have been removed and iron ones substituted. The west side boilers have not been in service during the quarter and have been cleaned and washed. It has been necessary to utilize semi-bituminous coal for the Davidson boilers, but practically no trouble has been experienced with smoke from the chimneys.

RIDGEWOOD NEW STATION.

Worthington engines, Nos. 1, 2, 3 and 4, have had minor repairs made during the quarter, and the steam pistons of engine No. 5 have been thoroughly overhauled and put in first-class condition, and the engine is now running well.

The Bigelow boilers, Nos. 21 and 22, in the New Ridgewood Station, have given out and contracts have been made for thoroughly repairing the same. Minor repairs have

been made on the Strong battery of boilers in this station. The electric light plant has been running well, but is too small for the station. A contract has been advertised in which is provided a new engine and generator of 50 kilowatts capacity, together with the necessary re-wiring for the old and new stations.

NEW LOTS.

The territory supplied by the New Lots station was increased on February 9, 1902, but it was found that the station would not be able to safely supply such a large area. The boundaries of the system were therefore changed on March 3, 1902, and the consumption is now about 3,500,000 gallons daily, which is about the maximum safe capacity of this station under present conditions. A fourth boiler has been ordered for the station from A. D. Granger Company, at a cost of \$769. With this in service the station will be capable of providing for an increased consumption.

LINE STATIONS.

Two of the engines in the Spring Creek old plant have been in active service during the quarter, and considerable repair work has been done on the boilers and engines. The engines of the temporary plant have been given a general overhauling, and boiler No. 3 was repaired, a new piece being placed inside the firebox. There have been no special repairs made at the Shetucket, Oconee, Baiseley's and Jameco plants. The top of the smokestack at Shetucket was blown off, and will be replaced when this station is shut down for inspection by the Police Department. Five of the west wells and three of the east wells at Baiseley's have been pulled up, cleaned and redriven, with a 5-foot double gauze strainer and points.

Minor repairs have been made at the Forest Stream and Clear Stream stations, and the Clear Stream wells are now being pulled up, cleaned and redriven with new 5-foot double gauze strainers and points. Twenty-four of these wells were cleaned during the quarter. It has only been necessary to make minor repairs at Watts Pond and Smith's Pond stations. At the Millburn Station, No. 2 engine has been thoroughly overhauled, and a new piston rod is being made at Ridgewood. This station has pumped continuously about 48,000,000 gallons daily. Much less jar is experienced since the additional 48-inch main from the station to the Millburn efflux chamber was put in service. It has not been necessary to operate any of the driven well stations east of Millburn, and they have been overhauled and put in good order, so that they can be started whenever required. New smokestacks have been ordered for the Agawam station, and boilers Nos. 6 and 8 need repairs, for which specifications have been drawn. Thirteen of the 6-inch wells on the west line and seventeen of the 6-inch wells on the east line have been washed and cleaned, thus completing the work of overhauling the wells.

At the Merrick Station ten 4 1/2-inch wells on the west line have been cleaned and resunk, the strainers having been recovered. The east test well has been cleaned and resunk with a new double gauze strainer. The work on the wells at this station will be continued, as practically all the wells need pulling up, cleaning and the strainers recovering. The wells at the Wantagh Pumping Station were found to have the strainers in very bad condition and these will be recovered and the wells redriven. Five of the 4-inch deep wells were cleaned with the steam pump and found to be in good condition. These wells are about 90 feet deep. The wire box at the Wantagh station has been completed but has not been connected to the delivery pipe line.

BAISELEY'S AND SPRINGFIELD FILTER PLANTS.

The Boisley's filter plant has been operated by the Contractor for experimental purposes. The Contractor has found it necessary to make some changes increasing the volume of sedimentation tanks. This plant will probably be ready for testing in May. The 20-inch pipe leading from the new intake in Baiseley's Pond to the filter pump at the Jameco Pumping Station has been laid by our men and is now ready for use. At the Springfield Station, minor repairs have been made to the present plant, and the Contractor has been making extensive changes in the filter plant to enable it to meet contract requirements. This plant will probably be ready for testing in the early part of May.

PONDS, CONDUITS AND RESERVOIRS.

The air valve purchased from the Eddy Valve Company has been placed in the inlet gate chamber at Millburn Reservoir on the central 48-inch pipe leading from the Millburn engine house. This air valve works continuously, but will apparently need frequent repair, due to the constant motion.

The 48-inch connections between the southerly 48-inch additional pipe line and the inlet chamber of the Millburn Reservoir are being made by the City's employees. Sufficient pipe and curves are on hand to complete this work, and also to make the connections with the northerly additional 48-inch pipe.

The following number of closets and cesspools were inspected and cleaned during the quarter:

Near Foster's Meadow Stream.....	340
Near Springfield Stream.....	400
Near Valley Stream.....	140
Near Schodack Brook.....	80
Near Pine's Brook.....	97
Near Hempstead.....	2,327
Near Millburn Stream.....	36
Near East Meadow Stream.....	81
Near Wantagh Stream.....	150
Along Conduit Line.....	547

The total cost of this work during the quarter was \$905.52.

Water Analyses.

During the quarter the usual routine work of the laboratory has been continued, the work done being as follows:

Water Analyses—		
Number of samples collected.....	1,338	
Physical examinations.....	668	
Chemical analyses, complete.....	152	
Chemical analyses, partial.....	325	
Microscopical examinations.....	251	
Bacteriological examinations.....	1,098	
Bacteriological examinations, coli tests.....	636	
Miscellaneous—		
Sand samples examined.....	15	
Coal samples.....	2	
Asphalt sample.....	1	
Boiler scale.....	1	
Soda ash.....	2	
Magnesium coating.....	3	

The average condition of the water during the quarter is shown by the following figures:

Locality.	Turbidity.	Color.	Albu- minoid Ammonia.	Free Ammonia.	Chlorine.	Micro- Organism.	Bacteria.
Ridgewood Avenue, Influx.....	6.0	13	.051	.031	22.2	24	427
Basin No. 1, Efflux.....	5.6	11	.049	.023	26.5	14	408
Basin No. 2, Efflux.....	6.0	12	.048	.023	25.3	244	419
Basin No. 3, Efflux.....	5.6	13	.048	.021	21.1	68	434
Mount Prospect Reservoir.....	5.0	11	.090	.010	24.0	958	283
Tap, average.....	7.9	13	.052	.010	23.5	165	381

Mount Prospect Laboratory.

The consolidation of the Bureau of Lighting and Gas and Electricity with the Department of Water Supply has increased the work of the Laboratory. The work

has further been increased by having analyses of the water furnished Long Island City and other points in the Borough of Queens, made in the Brooklyn Laboratory. To meet the necessity of increased room, extensive changes have been made on the ground and first floors of the Mount Prospect gatehouse, and the Laboratory now includes the entire main floor, with the exception of a small office for the Keeper. A large part of the work of making these changes has been done by our men, the only work done on requisition being plumbing work and the furnishing of special tables, closets, etc.

Additional 48-Inch Pipe Conduit.

During the month of January, the Contractor for this work, Mr. William H. Masterson, laid about 7,300 feet. None of this pipe was tested, the trench being left open until the tests were made. As has already been stated, the floods in the latter part of February distorted portions of this line, thus further delaying the work. The Contractor has been repeatedly told to prosecute the work with greater rapidity, and especially to make the tests of the pipe immediately after the pipe has been laid, thus preventing the exposing of a long line of pipe to the action of the elements. The Contractor, nevertheless, has not previously heeded these directions, and damage to the pipe line from the floods resulted. Every effort will be made to compel the Contractor to test and back-fill the pipe as soon as calked, and also to complete the line within the contract time as extended by your predecessor. The pipe line has now been laid to Station 413, or a little more than half way between the Millburn Engine house and the Spring Creek gate chamber.

Works for the Ultimate Development of the Watershed.

I have so often before reported on this matter and have so repeated past recommendations, and the matter is so thoroughly covered in your communication to the Board of Estimate requesting the necessary issue of bonds to carry out the works contemplated for the development of our watershed, improvement of the supply and increased efficiency of the service, that it would seem superfluous to again insert here the schedule of these works and to once more discuss their importance and the necessity of prompt action to carry them out. It is to be hoped that the appropriations requested by you may be speedily granted.

Extension of Distribution.

The cumbersome method specified under the old Charter to secure authorization to lay water mains, and the practice prescribed by the Manhattan office for the disposal of petitions presented in this borough, under which these petitions were forwarded to New York and sometimes mislaid, led to such confusion in the records that it was very difficult to determine what had become of the petitions, and which of these had been recommended and rejected. Therefore early in the year I ordered a careful investigation of the whole subject and the preparation of a tabulated statement showing what petitions had been reported favorably, and their estimated cost, and also which of these petitions had been rejected, and on what grounds. Table No. 5, herewith attached, gives the complete statement of all the petitions for water mains which have been reported favorably from November 27, 1899, to date. In many cases partial action was taken by the various Boards previous to January 1 of this year, but no final action was taken. Provision should be made for the issue of bonds to cover the cost of this work, as the mains should be laid in each street reported on.

Records and Accounts.

The provisions of the old Charter relating to employees who were in the service January 1, 1898, rendered difficult an economic organization of the various Departments and Bureaus, particularly in that of Water Supply, and during the four years subsequent to consolidation there was not much progress made in improving the conditions, so that there has been sometimes a duplication of work in connection with the accounts of the Department in this borough, which, I think, may be remedied by a redistribution of the clerical force, already planned. Thus, with no greater, and probably less, expense, the efficiency of the service can be increased.

Too much attention cannot be given to a proper and detailed record of the work done, and of the cost of the same, the various items of expense being duly classified so as to facilitate comparison and thus secure the only safe basis for progressive improvement and efficient management. An intelligent and complete system of records and accounts, readily understood and accessible at all times, is the most effectual bar to extravagance or abuse. Our Annual Reports in past years have been framed on that theory, the operations of the Department being minutely detailed, so that our citizens could readily find therein how the money was expended in every case and what return the City received therefrom. It is to be regretted that these reports are no longer published as prepared by us. The last one printed was that for the year 1896. Since then, although for our own guidance and to facilitate reference or investigation when desired, we have continued our records, the data published by no means represent the latter, since they have been abridged and merged and made to correspond to the usual form of the Manhattan quarterly reports. A change in this practice would seem to be desirable in the interest of the service and to furnish that public and detailed information to which our citizens are entitled.

Action in Regard to Bureaus.

In this borough we have, in addition to the Bureau of the Chief Engineer, a Bureau of Repairs to Distribution and Complaints, and a Bureau of Conduits and Reservoirs. While, according to the provisions of the old Charter, under which the two latter bureaus were created, they were nominally independent of the Engineer's Bureau, and their heads should have reported directly to the Commissioner, as a matter of fact their work was directed, as it should be, by the Engineer in Charge, and they reported to and received directions from the latter. It is evident that both these Bureaus should be abolished and that the work done by them should be placed under the Chief Engineer, who, though not nominally, has virtually had and should have charge of the same, thus simplifying and increasing the efficiency of the service. I would suggest that the installation of meters be entirely taken from the Bureau of Repairs to Distribution and placed under the Water Registrar, although meters could be still repaired at our yards on requisition from the Water Registrar's Office. The advantage of concentrating the management of the meters in one office seems to me obvious.

Under the late Department of Public Buildings, Lighting and Supply there was a separate Bureau of Gas and Electricity, but it has not yet been settled whether a separate Bureau of Gas and Electricity will be created, or whether this work shall be placed under the Chief Engineer. Under your directions, and until the matter is decided, I have given some attention to the work of gas and electricity, and even began a preliminary study, with a view of effecting some important improvements, but have not continued these investigations and forbear to report now on them until it is definitely ascertained whether or not the work of these offices is to be placed under the Chief Engineer. I will, therefore, simply submit tabular statements of the work done in these offices during the quarter (Table No. 3). In connection with the creation or abolition of bureaus, I have already verbally called your attention to the omission in the new Charter of section 458, which in the old one prescribes the mode of creating or abolishing bureaus, so that you may determine what legal steps, if any, are required to create new bureaus or abolish existing ones.

Telephone Exchange.

After due consideration of the matter and several conferences with the representatives of the New York and New Jersey Telephone Company, the plan for a private branch exchange for the boroughs of Brooklyn and Queens was completed early in March, the telephone company having accepted, after some negotiations, our proposition to pay \$2,580 yearly for this private exchange. In their original proposition to the City they had quoted a price of \$2,892.50, which was an increase of \$61 over what the City was then paying for the direct connections to the main central. The contract with the telephone company has been signed and the work of installation will probably be completed some time during the present month. By this arrangement we have not only effected a yearly saving in cost of \$251.51, but we have greatly improved the service, and also have made it much easier to prevent the unauthorized use of the telephone for private purposes.

Contracts.

We have prepared and forwarded to you complete forms of contracts, specifications and bids for the following work and supplies, i. e.:

January 13. Semi-bituminous coal for Ridgewood.
 February 14. Cast-iron pipe specials.
 February 14. Straw, oats, hay and other supplies.
 February 14. American Portland cement for grouting the slopes of Millburn Reservoir, etc.
 February 20. Engines and electric generators for Ridgewood and Millburn.
 February 27. Cylinder and illuminating oils, grease, etc., for our pumping stations.

March 24. New boilers for the Mt. Prospect pumping station.
 It is gratifying to add that in every instance the contracts forwarded from this office were approved as to form by the Corporation Counsel. We have also virtually completed the form of contract and specifications for pumping engines at Millburn, and will forward the same to you within a few days. Specifications for the two additional boilers at Millburn are also nearly ready, but cannot be completed and forwarded to you until the appropriation for these boilers is authorized, since it is required by the Corporation Counsel's office that the resolution authorizing the work be inserted in the contract.

Requisitions for Work and Supplies.

Considerable time has been given in past years, and under various administrations, to the study of the best method to make purchases of minor supplies and have work done where the amount involved is small and it is not practicable to advertise for bids and execute a regular contract. As the result of these investigations, a Bureau of Supplies was created under the Department of City Works, which had exclusive charge of the purchase of all supplies for the various Departments. It was the duty of the employees of this Bureau to become familiar with market prices, to deal, as far as possible, directly with the manufacturers or wholesale houses, to combine as many orders of the same goods as practicable in one, etc., thus securing for the City the lowest prices obtainable and the requisite quality of goods. Undoubtedly this plan is the most satisfactory and I would respectfully recommend its adoption.

After consolidation, the Bureau of Supplies above referred to was abolished and we were directed to resort once more to the old method of purchase by requisition. We accordingly prepared, after carefully considering the matter, the blank forms at present in use to solicit bids on our requisitions, which give the necessary directions to enable bidders to compete intelligently and also simplify the canvassing of bids, while at the same time securing absolute fairness and impartiality. These requests for bids are sent generally to no less than three and often to as many as six or eight prospective bidders. The bids are opened and canvassed by the Deputy Commissioner, the results entered into the Minutes of the day as prescribed for all current matters in the Department in this borough, and the order hitherto has been given invariably to the lowest bidder on the total amount of his bid. We have recently been directed by the Deputy Commissioner in the Manhattan office to canvass these bids not on the total, but under each separate item, or, in other words, to "split the order" among the various bidders, giving each the item on which he is lowest, and the change has accordingly been made. While at first sight this method would seem to be preferable to the one previously adopted of canvassing on the total, past experience leads me to doubt whether the change will prove beneficial, the objections being, as already stated in a previous communication to the Deputy Commissioner.

First—A large increase in clerical work. We have often requisitions with twenty or more items, and, in fact, in exceptional cases, we have had them with one hundred and twenty items, and the canvassing of the items in these long requisitions among a large number of bidders is more or less laborious.

Second—Some of the items are very small. We have them often ranging downward from say \$1.25 to 40 cents, and bidders on these requisitions are not eager to accept an order for an item of \$1 or \$2, or for still smaller items, especially when generally they have to be expressed or otherwise delivered at our stations, and the contractors, furthermore, are subjected to considerable trouble and delay in getting their money. I suggested, when the change was ordered, that this might happen, and it has already occurred.

Third—It might also happen that the different items in one requisition, intended for one piece of work, might be given to two different bidders and the component parts would not fit when put together. When commenting on the change I also suggested that this might occur, and it has already taken place.

While frankly stating the drawbacks to the change, I am not, however, disposed to criticize it, and still less to recommend that it be abandoned, since a longer trial would, in fairness, be required to pass upon and determine its merits.

The present method of filling our requisitions is extremely cumbersome and unsatisfactory. After our bids are received, as above stated, we here make a requisition on the New York office for the supplies, leaving a copy in our books, and the order for the goods is made in the New York office and forwarded either to this office for transmission to the successful bidder, or is sent directly to the latter. Under this mode of procedure our requisitions have been extraordinarily and unnecessarily delayed in New York, to the detriment of work, and, in fact, have sometimes been lost there, and this fact has not been ascertained until after repeated inquiries by letter, telephone and messenger from this office, our work in the meantime being delayed and more or less crippled. Again, we have no means of knowing, except by constant inquiry, when these orders are issued and when we can proceed with the work or order the supplies; and, lastly, the orders themselves sometimes have not been made exactly in accordance with our requisitions.

All these evils, which are constant and detrimental to the City's interests, can be readily obviated by a simple change in method, which I respectfully submit to your consideration, i. e.:

After the bids for these small supplies and work are received here by the Deputy Commissioner and entered into the minutes, and the award is made to the lowest bidder, the Deputy Commissioner here can make and issue the order to the bidder to deliver the goods or do the work required, and can forward to the New York office for record there a copy of the order. In this manner the work can go on expeditiously and the New York office can have all the records it needs there for ready reference, while the clerical labor will be diminished.

Financial.

On the basis of the payroll for December, 1901, there were in the Bureaus paid from the Water Revenue 800 men, the salaries amounting to \$765,819.05. In the preliminary Water Revenue Budget which was prepared during the last administration provision was made for 848 men, the salaries amounting to \$807,684.25. As requested by you, I prepared a Budget during January of this year, in which provision was made for 679 men, total salaries amounting to \$653,295.25. This Budget was prepared on the basis of making allowance only for those men absolutely necessary for the carrying on of the work of maintaining the water supply in this borough, and showed a decrease, as compared with the payroll of December, 1901, of 130 men and \$112,523.80 in salaries, while, as compared with the Budget prepared by the last administration, there was a reduction of 169 men and \$154,389 in salaries. The men for whom no provision had been made in the Budget prepared by me were discharged in the end of January, and the amount required from Water Revenue for salaries, based on the months of February and March, would be \$624,102.36. This shows a reduction of \$29,192.89 from the Budget figures, which is due to our not requiring the full complement of men at the present time, as a number of our driven well stations are shut down, and the filter plants at Baisley's and Springfield have not yet been turned over to the City by the contractor.

Salaries of Engineering Force.

I have before called your attention to the inadequate compensation received by the members of our engineering staff, which is inadequate in view of the services they perform, less than is paid in other Departments of the City for similar services, and much below what is given to employees in the Manhattan Department who have much less important duties. With the exception of Mr. Tuttle, who has been on leave of absence since last July, and who is not expected before July of this year, if at all, and whose salary is \$2,700, we have only one Assistant Engineer at \$2,400, and none of the others receive more than \$2,200, while by referring to the roll of the Manhattan and The Bronx, you will see that there is one Assistant Engineer at \$5,000, one at \$4,800, two at \$3,000, and three at \$2,400, and, as you are aware, the construction work in Manhattan is in the hands of the Aqueduct Commission, so that the Assistant Engineers above referred to have much less important duties and less work than the Assistant Engineers in our Department above mentioned. The same is true in the case of the Transmitters, Levelers, etc., to whom, for the sake of brevity, I shall make no more detailed reference here. A comparison—which would be a fairer one—with the payroll of the Croton Aqueduct engineering staff, would

show still more striking differences. Knowing your desire to do equal and impartial justice to your employees, and that you realize that it is as important to pay adequate compensation for services faithfully rendered, as it is to abolish unnecessary positions and check extravagance, I respectfully again bring this matter to your attention, hoping that the slight increases recommended by me for these employees, which in the aggregate amount only to some \$2,160, may soon be approved and granted by you.

Payment of Tax Bills.

The verification of the tax bills rendered, and examination of the books at the proper time, would not seem to be properly a part of the duties of this Bureau. We duly prepared and have all the necessary maps of our lands and other property on the Island, so that the same can be readily located, and, in fact, have even furnished copy of our maps to the Town Assessors for their guidance. It is my opinion that this is all the work that this Bureau should be called upon to do in this matter. Recommendations have been made in the past to have it placed under the Comptroller, or the Corporation Counsel, or the Deputy Commissioner, but no action having been taken on these recommendations, Deputy Commissioner Moffett, as a temporary measure, directed that Mr. Frederick E. Haskins, who is carried on the Water Registrar's roll as a "Clerk," at a salary of \$1,250 per annum, should attend to these bills, and he has been doing so for the past two or three years, I believe, satisfactorily, and has reported to this Bureau. It is evident, however, on the face of it, that this is an unsatisfactory arrangement, since the work is being done by an employee appointed for another purpose and in the Water Registrar's Bureau, which should have no cognizance of such matters. Furthermore, it certainly is not economical to have a man especially deputed simply to do this work, which could very properly form only part of that of a clerk. I call your attention to the matter for such action as you may deem advisable.

Office Room.

In the report for the quarter ending December 31, 1901, Mr. Van Buren, the Engineer in Charge, once more called attention to the utterly inadequate provision made for the offices of this Bureau, both as regards space, location and adaptability. I could hardly add anything to the statements he then made on this subject, the accuracy of which you have had occasion to verify. Since then we have obtained one large and two adjoining small rooms on the third floor, which will be occupied by Clerks, Stenographers, and the main office of the Chief Engineer. Present conditions will then be much improved and we shall be able to dispense with the extremely objectionable use of the tower for some of our employees. Our office space, however, will still be inadequate and particularly ill adapted to the needs of an efficient service, since our force is fractioned and scattered. We will have the Chief Engineer's office and the office of Lighting and Electricity and Gas on the third floor, adjoining the offices of the Deputy Commissioner, while the Engineer's Bureau and Bureaus of Distribution and Extension will be on the fourth floor, as well as the Clerks of the Deputy Commissioner, an arrangement which occasions much inconvenience and loss of time in going from one floor to the other. It is to be hoped that we may soon obtain the additional space on the third floor adjoining the Deputy Commissioner's office, as suggested by the Department of Public Buildings.

Bureau of Gas and Electricity.

The work done in this Bureau during the last quarter is shown in the tables attached hereto. (Nos. 3 and 4.)

BOROUGH OF QUEENS.

The buildings in the First Ward were turned over to the City in a dilapidated condition, and while repairs have been made to the full extent allowed by the appropriations, there is still a great deal of work to be done to put them in proper condition. Other needed improvements will have to be made to the various pumping stations in order to meet the consumption during the dry periods, on which I shall report at further length after I have obtained the necessary data for a thorough study of actual conditions and present and prospective requirements. The extraordinary amount of work which has devolved upon me during the present quarter has made it impossible to devote any time to this question.

The contract for laying mains, made with James P. Graham during 1901 is almost completed, and their use will considerably increase the consumption.

The abundant rains during the quarter have enabled the municipal plant to meet the demand, together with the amount supplied by the Citizens' Water Company.

The average amounts pumped daily at each station and the amount supplied from the Citizens' Water Company are as follows:

	Gallons Pumped (Average per Day)
First Ward, Station No. 1.....	960,319
First Ward, Station No. 2.....	1,158,482
First Ward, Station No. 3.....	714,026
Third Ward, Flushing Station.....	902,317
Third Ward, College Point Station.....	1,124,873
Third Ward, Whitestone Station No. 1.....	172,852
Third Ward, Whitestone Station No. 2.....	248,759
Citizens' Water Supply Company, Flushing Avenue Meter.....	939,688
Citizens' Water Supply Company, Laurel Hill Meter.....	237,319
Citizens' Water Supply Company, Thompson Avenue Meter N.....	1,071,676
Citizens' Water Supply Company, Thompson Avenue Meter M.....	1,122,428

Bureau of Gas and Electricity.

I append Tables Nos. 6 and 7, showing the work done by the Bureau of Gas and Electricity in Queens.

Damage Suits.

Two lawsuits for the diversion of underground water were brought to trial during the quarter; one of these was settled for \$150, and the other was dismissed without trial. Under the present rule of damages limiting the amount to be recovered to the reduction in rental value and in fee value of the land from which the driven well stations have diverted the water, it is not probable that large awards will be made to claimants, and probably some of the cases now pending will be discontinued.

Office in General.

We have been during the last quarter without a Deputy Commissioner for this borough, and thus, for the lack of an executive head or delegated authority, have been compelled to refer all matters, even when of slight importance, to the Manhattan office for decision. This course has occasioned much delay and considerable confusion, and has extraordinarily increased the amount of work thrown upon the Engineering Bureau, making it, therefore, practically impossible to give the requisite attention and time to the engineering problems connected with the water supply of Brooklyn, to which reference has so frequently been made by this Bureau in the past, and which should receive our preferential attention. It is to be hoped that this condition of affairs may soon be remedied, so that we may be relieved of all the work which should come under the jurisdiction of the Deputy Commissioner, and which has been and is so largely encroaching upon our time and attention, and that the organization of the Bureaus may be completed, so that there may be a proper and efficient management of the business of this Bureau, free from uncertainty, confusion, interference or delay.

Engineering Force Inadequate.

Our engineering force is at present inadequate for the work to be done, and will have to be increased as soon as any of the new construction work contemplated is started.

I owe and render cheerful testimony to the efficiency and zeal in the discharge of their duties of the members of our force, one and all, who, attentive only to secure the best results and finish the work in hand, irrespective of the length of time required, even when it largely exceeded official hours, have been unsparing in their efforts on behalf of the City's interests.

Respectfully submitted,

J. M. De VERONA, Chief Engineer.

TABLE No. 1.
Table Showing Number of Permits, Repairs, etc., from January 1, to March 31, 1902.

1902.	Leaks in Distribution.							Drinking Hydrants Repaired.	Fire Hydrants Repaired.	Leaks Reported by Inspectors.	Premises Cut Off.	Taps Inspected and Driven.	Complaints of Violations.	Permits for Extension.	Permits for Old Buildings.	Permits to Cement Sidewalks.	Stop-cocks paired.	Street Opening Permits.	Special and Temporary Taps.	Draw Tap and Plug Permits.	Special Water Permits.
	4-inch.	6-inch.	8-inch.	10-inch.	12-inch.	16-inch.	Total.														
January	2	9	2	1	1	1	15	9	476	92	22	78	32	80	82	1	30	286	1	2	1
February	2	6	1	1	1	1	8	7	457	79	16	16	42	48	43	1	32	253	1	1	1
March	1	18	1	1	3	1	24	4	313	55	13	221	33	76	309	41	111	426	1	8	2
Total	4	33	4	1	4	1	47	20	1,246	226	51	125	113	204	434	43	173	965	2	11	4

TABLE No. 2.
New Meters Set from January 1 to March 31, 1902.

	3/4 inch.	1 inch.	1 1/2 inch.	2 inch.	3 inch.	4 inch.	Total.
Worthington	2	2	1	2	1	1	6
Crown	1	2	1	1	1	1	6
Thompson	11	4	9	1	2	2	30
Trident	5	3	4	1	1	1	15
Nash	1	1	1	1	1	1	6
Total	16	11	17	3	4	2	53

Total number of meters in use. 3,771
 New meters set. 53
 Meter accounts closed. 7
 Readings of meters by inspectors. 9,617
 Steamboat permits issued. 46
 Defective meters reported. 276
 Permits issued to plumbers to repair meters. 225
 Inspections made to verify the conditions of meters. 216
 Meters in use December 31, 1901. 3,725
 New meters set from January 1 to March 31, 1902. 53

Total 3,778
 Less accounts closed since December 31. 7

Meters in use March 31, 1902. 3,771

TABLE No. 3.
BUREAU OF GAS AND ELECTRICITY, BROOKLYN.
January 1 to March 2, inclusive.

	Overhead Wires.	Subway Construction.	Underground Conductors.	Interior Wiring.	Total.
Number of applications received.	1,002	100	44	763	1,909
Number of applications canceled and pending	11	2	1	128	141
Number of permits and certificates granted.	991	98	44	635	1,768

Permits Granted.

Companies.	Overhead Wires.	Subway Construction.	Underground Conductors.	Poles Erected.	Poles Removed.	Miles of Overhead Wire Removed.	Miles of Subway Way Constructed.	Miles of Duct Constructed.	Miles of Conductors Placed in Subways.
American District Telegraph									
Brooklyn District Telegraph									
Brooklyn Heights Railroad.	13	1	2	14	30	7.411			3.082
Coney Island and Brooklyn Railroad					1				
Eastern District Messenger.									
Edison Electric Illuminating	134	78	3	50	14	0.360	0.288		2.092
Fire Department	3			1	2				
Flatbush Gas	17	1	1	37	8	0.492			0.849
New York and New Jersey Telephone	816	18	38	64	80	29.070	0.163	0.253	2,947.347
Police Department									
Postal Telegraph, Cable.									
Stock Quotation Telegraph.	5					2.500			
Union District Messenger.									
Western Union Telegraph.	3				14	4.500			
Total	991	98	44	192	149	44.333	0.451	0.253	2,953.370

Certificates were issued for the installation of 19,885 incandescent lights, 152 arc lights, 755 7-80 horse-power of motors, 55,585 k. w. of generators, 23,675 k. w. of miscellaneous appliances.

No. of inspections made. 4,491
 No. of complaints sent out. 530
 No. of photometric tests made of illuminating gas. 11

TABLE No. 4.
BUREAU OF LIGHTING, BROOKLYN.
January 1—March 31, 1902.

COST OF GAS, ELECTRIC AND WELSBACH LIGHTING AND REPAIRS FOR QUARTER.

Company.	Lamps.	Public Buildings.	Repairs.
Brooklyn Union Gas Company.	\$61,746 26	\$7,055 46	\$955 00
Kings County Gas and Illuminating Company.	20,239 55	107 10	114 00
Flatbush Gas Company.	13,977 38	27 90	
Welsbach Street Lighting Company of Am.	2,692 50		
Edison Electric Illuminating Company.	123,035 78	8,181 48	
Total	\$230,691 47	\$15,371 94	\$1,069 00

No. of Lamps Lighted January 1, 1902.

Gas	10,613
Electric	4,863
Welsbach	3,663
Naphtha	359
Total	19,498

New Lamps Added During Quarter.

New gas lamps lighted.	99
Gas lamp-posts uncapped and relighted.	6
Welsbach lamps installed and lighted.	76
New electric lights lighted.	10
Total	191

Lamps Discontinued During Quarter.

Gas lamps capped and discontinued.	43
Electric lights extinguished and discontinued.	11
Total	54

Total number of lamps burning March 31, 1902. 19,635

There was received 3,580 reports from the Police Department, from which were tabulated 17,440 cases of lamps not burning as per contract requirement. Of the above number 1,049 were gas lamps and 16,391 were electric lights.

CITY OF NEW YORK, BOROUGH OF BROOKLYN,
DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY,
BUREAU OF CHIEF ENGINEER.

Petitions for Water Mains Reported Favorably and Estimated Cost.

Location.	Limits.	Date of Report.	Estimated Cost.
Ninety-fourth street.	Second avenue to Fifth avenue.	Nov. 27, 1899	\$2,190 00
Twenty-fifth avenue.	Harway avenue to Warehouse avenue.	Feb. 19, 1900	1,100 00
Dean street.	Rockaway avenue to Old City line.	" 23, "	430 00
Huntington street.	Heary street to Hicks street.	Nov. 15, "	810 00
Hinsdale avenue.	Sutter avenue to Livonia avenue.	" 10, "	1,626 00
Williams avenue.	Sutter avenue to Riverdale avenue.	" 10, "	1,965 00
Schenck avenue.	Dumont avenue to New Lots road.	" 19, "	664 00
Vesta avenue.	Liberty avenue to New Lots road.	" 19, "	4,916 00
Christopher street.	Dumont avenue to Lott avenue.	" 19, "	1,955 00
Belmont avenue.	Vesta avenue to Sackman street.	" 19, "	1,412 00
Sutter avenue.	Vesta avenue to Sackman street.	" 19, "	1,736 00
Dumont avenue.	Vesta avenue to Sackman street.	" 19, "	1,082 00
Riverdale avenue.	Powell street to Stonn avenue.	" 19, "	999 00
Railroad avenue.	Liberty avenue to Glenmore avenue.	" 19, "	414 00
Avenue P.	East Twenty-second street to East Twenty-fourth street.	Dec. 7, "	7,750 00
Avenue Q.	Ocean avenue to East Twenty-fifth street.	" 7, "	
East Twenty-first street.	Avenue P to past Avenue Q.	" 7, "	
East Twenty-second street.	Avenue P to past Avenue Q.	" 7, "	
East Twenty-third street.	Avenue P to past Avenue Q.	" 7, "	
East Twenty-fourth street.	Avenue P to past Avenue Q.	" 7, "	1,183 00
Fourth street.	Eight avenue to Ninth avenue.	Jan. 15, 1901	
Blake avenue.	Elton street to Warwick street.	" 7, "	
Dumont street.	Linwood street to Ashford street.	" 7, "	
Ocean avenue.	Avenue N to Avenue O.	" 7, "	
Ocean avenue.	Avenue J to Avenue I.	April 23, "	1,904 00

Avenue I.....	Ocean avenue to East Twenty-second street.....	" 23, "	746 00
Cleveland street.....	Glenmore avenue to Pitkin avenue.....	Mar. 21, "	496 00
Pitkin avenue.....	Schenck avenue to Linwood street.....	" 21, "	2,560 00
Sutter avenue.....	Schenck avenue to Warwick street.....	" 21, "	999 00
Weirfield street.....	Hamburg avenue to Knickerbocker avenue.....	" 21, "	920 00
Norwood avenue.....	Fulton street to Jamaica avenue.....	July 8, "	1,935 00
West Seventeenth street.....	Neptune avenue to Mermaid avenue.....	" 18, "	950 00
Bushwick avenue.....	Jamaica avenue to Conway street.....	June 24, "	3,805 00
Gillen place.....	Jamaica avenue to Bushwick avenue.....	" 24, "	1,226 00
Taatford avenue.....	Livonia avenue to Riverdale avenue.....	July 19, "	621 00
Linden street.....	Hamburg avenue to Knickerbocker avenue.....	" 19, "	1,069 00
McKibbin street.....	Bushwick avenue to Bogart street.....	" 19, "	2,512 00
Kings Highway.....	Van Sicklen street to East Second street.....	" 29, "	1,411 00
Eighty-second street.....	Twelfth avenue to Thirteenth avenue.....	" 29, "	1,347 00
Twelfth avenue.....	Eighty-second street to Eighty-third street.....	" 29, "	
Gravesend avenue.....	Kings Highway to Avenue O.....	" 20, "	1,275 00
Twenty-third avenue.....	Bath avenue to Cropsy avenue.....	" 20, "	1,182 00
Hancock street.....	Hamburg avenue to Knickerbocker avenue.....	Oct. 15, "	1,594 00
Fiftieth street.....	Seventh avenue to Eighth avenue.....	Nov. 13, "	1,208 00
Fifty-sixth street.....	Sixth avenue to Seventh avenue.....	" 13, "	1,025 00
East New York avenue.....	Saratoga avenue to Bristol street.....	" 13, "	
Pitkin avenue.....	Saratoga avenue to Bristol street.....	" 13, "	
Saratoga avenue.....	Pitkin avenue to East New York avenue.....	" 13, "	
Douglas street.....	Pitkin avenue to East New York avenue.....	" 13, "	10,608 00
Ames street.....	Pitkin avenue to East New York avenue.....	" 13, "	
Amboy street.....	Pitkin avenue to East New York avenue.....	" 13, "	
Hopkinson avenue.....	Sutter avenue to East New York avenue.....	" 13, "	
Hopkinson avenue.....	Newport avenue to Lotz avenue.....	" 23, "	3,013 00
Newport avenue.....	Rockaway avenue to Ames street.....	" 23, "	
Bay Thirty-seventh street.....	Benson avenue to Eighty-sixth street.....	Feb. 1, 1902	701 00
Jardine place.....	Herkimer street to Atlantic avenue.....	" 4, "	425 00
Fountain avenue.....	Gilmore avenue to Atlantic avenue.....	" 8, "	2,083 00
Sackett street.....	Third avenue to Fourth avenue.....	" 13, "	1,094 00
Osborn street.....	Riverdale avenue to Livonia avenue.....	" 19, "	343 00
New Utrecht avenue.....	Sixty-seventh street to Seventy-fifth street.....	" 19, "	
Sixty-eighth street.....	Sixteenth avenue to 100 feet east of Sixteenth avenue.....	" 19, "	
Sixty-ninth street.....	New Utrecht avenue to 100 feet east of Sixteenth avenue.....	" 19, "	
Seventieth street.....	New Utrecht avenue to 100 feet east of Sixteenth avenue.....	" 19, "	
Seventy-first street.....	New Utrecht avenue to 100 feet east of Sixteenth avenue.....	" 19, "	5,714 00
Seventy-second street.....	New Utrecht avenue to 100 feet east of Sixteenth avenue.....	" 19, "	
Seventy-third street.....	New Utrecht avenue to 100 feet east of Sixteenth avenue.....	" 19, "	
Union street.....	Brooklyn avenue to Kingston avenue.....	April 8, "	1,018 00
Forty-eighth street.....	Second avenue to Third avenue.....	" 8, "	1,208 00
			<u>\$90,777 00</u>
Estimated cost of laying water mains in all streets petitioned for and reported on favorably previous to April 8, 1902.....			\$90,227 00

TABLE No. 6.

BUREAU OF GAS AND ELECTRICITY, BOROUGH OF QUEENS

January 1 to April 1, 1902.

Permits granted to—

New York and New Jersey Telephone Company.....	134
New York and Queens Electric Light and Power Company.....	58
New York and Queens County Railway Company.....	2
Fire Department.....	3
Queens Borough Electric Light and Power Company.....	6
Brooklyn Heights Railroad Company.....	8
Western Union Telegraph Company.....	5
Ocean Electric Railway Company.....	1
Bowery Bay Electric Light and Power Company.....	11
C. Enrich.....	1
Total.....	<u>229</u>

Permits granted for—

Erecting poles.....	7
Erecting poles and wires.....	17
Erecting poles, wires and city lamps.....	2
Replacing poles and wires.....	21
Replacing poles, wires and city lamps.....	1
Resetting poles.....	2
Transfers of poles and wires.....	6
Transfers of poles, wires and city lamps.....	3
Stringing wires.....	162
Removing poles and wires.....	2
Subway.....	6
Telegraph and telephone.....	142
Electric light and power.....	<u>87</u>

TABLE No. 7.

Interior Wiring.

Applications received.....	186
Certificates granted.....	126
Incandescent lights.....	3,484
Arc lights.....	11
Outlets.....	127
Motors (horse power).....	11.147
Total number of applications left over.....	320
Total number of inspections.....	<u>4,273</u>

Complaints.

Total number of complaints attended to.....	118
Total number of complaints received.....	156
Total number of complaints left over which are being attended to.....	<u>418</u>

Poles and Wires Removed.

	Poles.	Miles of Wires.
By New York and New Jersey Telephone Company.....	14	0.9
By New York and Queens County Electric Light and Power Company.....	6	1.3

DOCUMENT "D."

Department of Water Supply, Gas and Electricity,
Boroughs of Manhattan and The Bronx,
Bureau of Water Register,
New York, March 31, 1902.

Hon. J. HAMPDEN DOUGHERTY, Commissioner, Department of Water Supply, Gas and Electricity:

Dear Sir—I herewith transmit statement of moneys received for water rents, penalties, taps, etc., for the quarter ending March 31, 1902.

REGULAR RATES.

	Principal.	Penalties.	Total.
January.....	\$25,051 90	\$1,164 25	\$26,216 15
February.....	20,440 00	856 50	21,296 50
March.....	21,704 20	884 10	22,588 30
	<u>\$67,202 10</u>	<u>\$2,904 85</u>	<u>\$70,106 95</u>

METER MEASUREMENT.

Meters Outside of Riverdale and Exclusive of Steamboat Meters.

	Principal.
January.....	\$243,905 08
February.....	225,944 20
March.....	261,780 20
	<u>\$731,680 48</u>

Riverdale Meters.

	Principal.
January.....	\$60 40
February.....	65 40
March.....	120 00
	<u>245 80</u>

Steamboat Meters.

	Principal.
January.....	\$9,983 23
February.....	15,943 10
March.....	15,117 60
	<u>41,043 93</u>

Building Purposes.

	Principal.
January.....	\$4,239 60
February.....	1,882 20
March.....	3,841 70
	<u>9,963 50</u>

Permits issued, 276.

Extras, Boilers, etc.

	Principal.
January.....	\$622 32
February.....	350 08
March.....	551 63
	<u>1,530 93</u>

Permits issued, 20.

Tugs.

	Principal.
January.....	\$2,233 75
February.....	1,287 50
March.....	1,067 50
	<u>4,588 75</u>

Permits issued, 170.

Taps.

	Principal.
January.....	\$368 00
February.....	275 50
March.....	609 00
	<u>1,252 50</u>

Permits issued, 388.

Meter Setting Fund, No. 2.

	Principal.
January.....	
February.....	
March.....	

Repairs, etc. (Bureau of Chief Engineer).

From January 10:	Principal.
January.....	\$182 96
February.....	93 37
March.....	766 58
	<u>1,042 91</u>

Amount collected for the corresponding quarter of 1901..... \$736,084 97

All of which is respectfully submitted.

Very respectfully,

WM. G. BYRNE, Water Registrar.

DOCUMENT "E."

STATEMENT OF RECEIPTS, BUREAU OF WATER REGISTRAR.
BOROUGH OF BROOKLYN.

For the Quarter Ending March 31, 1902.

Date.	Regular Water Rates.	Metered Water Rates.	Default Water Rates.	Building Purposes.	Water Permits.	Miscellaneous Receipts.	Arrears For Water.	Total.
January 2 to January 4, 1902.....	\$1,693 50	\$2,226 25	\$228 08	\$32 40	\$32 25	.....	\$522 99	\$4,735 47
January 6 to January 11, 1902.....	4,742 72	3,528 26	621 73	201 80	142 75	\$21 25	3,375 40	12,633 91
January 13 to January 18, 1902.....	3,997 47	1,183 85	547 18	194 80	119 25	151 54	4,038 04	8,042 13
January 20 to January 25, 1902.....	2,776 56	10,150 15	272 87	57 30	114 00	2 63	2,725 16	16,102 67
January 27 to January 31, 1902.....	2,505 28	3,014 18	362 76	80 85	83 00	58 90	2,441 30	10,546 36
February 1, 1902.....	402 17	177 24	51 70	15 00	.....	.....	129 78	776 79
February 3 to February 8, 1902.....	4,306 23	2,104 78	551 65	91 14	60 25	.....	2,257 01	9,271 02
February 10 to February 15, 1902.....	2,026 25	1,927 22	411 21	86 26	74 25	32 50	2,110 11	7,567 74
February 17 to February 22, 1902.....	1,883 56	10,918 38	256 47	48 50	48 00	.....	1,216 34	14,391 55
February 24 to February 28, 1902.....	3,816 57	779 34	520 00	40 30	50 00	27 95	1,802 35	7,053 45
March 1, 1902.....	514 49	.....	70 35	22 80	11 00	.....	323 70	942 34
March 3 to March 8, 1902.....	3,104 95	1,805 73	421 25	293 30	150 75	.....	4,471 57	8,159 64
March 10 to March 15, 1902.....	2,933 92	13,066 32	419 08	435 38	230 00	.....	3,360 25	19,444 05
March 17 to March 22, 1902.....	3,812 50	18,424 17	415 40	1,015 00	271 50	.....	1,731 38	24,870 05
March 24 to March 29, 1902.....	3,084 78	16,255 40	434 52	770 50	245 25	.....	3,245 46	23,136 12
March 31, 1902.....	1,021 25	3,794 84	155 50	98 40	132 25	.....	755 56	5,340 80
Total.....	\$42,528 24	\$90,866 16	\$5,821 90	\$3,394 73	\$1,770 50	\$304 77	\$28,426 50	\$173,112 99

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, Held at their Office, No. 207 Stewart Building, on Tuesday, July 15, 1902, at 2 o'clock p. m.

Present—The Mayor, the Comptroller, Commissioners Ten Eyck (President), Ryan, Power and Windolph.
Also, Chief Engineer Hill, of the Aqueduct Commission, and Chief Engineer McLean, of the Department of Finance.
Also, John B. McDonald, of the firm of McDonald & Onderdonk, contractors for the Jerome Park Reservoir.

The minutes of stated meeting of July 8, 1902, were read and approved.

The Committee of Finance and Audit reported the examination and audit of estimate contained in Voucher No. 14626, amounting to \$5,003.41, and of bills contained in Vouchers Nos. 14627 to 14635, inclusive, amounting to \$2,120.93.

Which were approved and ordered certified to the Comptroller for payment by the following vote:

Affirmative—Commissioners Ten Eyck, Ryan, Power and Windolph—4.

The Construction or Executive Committee referred to the Commissioners the following communication of the Chief Engineer, with the recommendation that the authority therein asked for be granted:

REPORT No. 386.
New York, July 10, 1902.

To the Committee on Construction:

GENTLEMEN—I wish to have some test pits sunk in the basin of Jerome Park Reservoir to ascertain the character of the soil. Will you please grant authority to have the work done?

Yours very respectfully,
W. R. HILL, Chief Engineer.

Which recommendation was approved and adopted by the following vote:

Affirmative—Commissioners Ten Eyck, Ryan, Power and Windolph—4.

The Committee also referred to the Commissioners the following communication of the Chief Engineer, with the recommendation that the authority therein asked for be granted:

REPORT No. 387.
New York, July 15, 1902.

To the Committee on Construction:

GENTLEMEN—In order to keep cattle off the city's land in the vicinity of Muscott Dam it will be necessary to build 42 rods of new fence and to repair 32 rods of old stone wall by stringing two wires over it. The work will cost about \$60.

I respectfully ask authority to have the work done.
Very respectfully,
W. R. HILL, Chief Engineer.

Which recommendation was approved and adopted by the following vote:

Affirmative—Commissioners Ten Eyck, Ryan, Power and Windolph—4.

The following communication was received from the Chief Engineer:

REPORT No. 388.
New York, July 15, 1902.

To the Aqueduct Commissioners:

GENTLEMEN—Relating to the communication received from Mr. S. William Briscoe, Secretary, Municipal Civil Service Commission, dated June 26, 1902, submitting the names of John Gallery and William A. Towner as being on the preferred list for reinstatement to the position of Axeman, I would respectfully report that John Gallery will accept an appointment and that William A. Towner has not informed me as to whether he will accept an appointment or not.

Very respectfully,
W. R. HILL, Chief Engineer.

In connection therewith Commissioner Power offered the following:

Resolved, That John Gallery be and hereby is appointed to the position of Axeman in the Engineer Corps of the Aqueduct Commissioners, at a salary of \$50 per month, his compensation to begin when he is assigned to duty by the Chief Engineer; and that the Secretary be and hereby is directed to communicate with the Municipal Civil Service Commission and obtain an eligible list from which one Axeman may be appointed.

Which was adopted by the following vote:

Affirmative—Commissioners Ten Eyck, Ryan, Power and Windolph—4.

The following communication was received:

DEPARTMENT OF FINANCE—CITY OF NEW YORK,
July 12, 1902.

Aqueduct Commission, 280 Broadway, New York City:

GENTLEMEN—At a meeting of the Board of Estimate and Apportionment, held July 8, 1902, a joint hearing was had by your Commission and said Board of Estimate and Apportionment in the matter of a change of hours of labor on the contract for the construction of the Jerome Park Reservoir, and on motion the subject was referred to your Commission for consideration and report.

I inclose herewith copies in triplicate of papers submitted at said hearing as follows:

Brief of John J. Pallas, Corresponding Secretary of the New York Central Federated Union.

Report of Engineer of Department of Finance.

Report of Chief Engineer of Board of Estimate and Apportionment.

Very respectfully,

J. W. STEVENSON, Deputy Comptroller.

In the Matter
of
The Contract for the Construction of the Jerome Park Reservoir.

To the Honorable the Aqueduct Commissioners and the Board of Estimate and Apportionment.

We appear before your Honorable Boards to request that you exercise the power conferred upon you by the Act of 1902, and enter into an agreement with the contractor for the construction of the Jerome Park Reservoir, to the effect that the laborers employed by him on that work shall only be required to work eight hours a day.

The contract for the Jerome Park Reservoir was made in 1895, before the amendments to the Labor Law requiring that all its provisions with respect to hours of labor and rate of wages, etc., etc., should be inserted in all contracts for public work. It is believed that the contract for the construction of the Jerome Park Reservoir is the only existing contract for public work of any magnitude within the City of New York which does not contain the provisions of the Labor Law with respect to the eight-hour clause. Other contracts relating to the Jerome Park Reservoir provide that eight hours shall constitute a day's work. There is thus presented the anomalous condition that laborers upon the same public work and rendering the same class of services are required to work more hours for the same compensation than are other laborers, because of the fact that at the date of the award of the contract for the construction of the Jerome Park Reservoir, the amendments requiring the insertion of the provisions of the Labor Law in contracts had not been enacted. No reason exists for the continuance of this injustice.

The Aqueduct Commissioners and your Honorable Board are fully empowered by the Act of 1902 to remedy it.

It was to meet this condition of affairs and to put an end to the injustice done to certain of the laborers upon the work of constructing the Jerome Park Reservoir that the Act of 1902 was passed. The Act clothes the Aqueduct Commissioners with power, with the approval of your Honorable Board, to enter into an agreement with the contractor, providing that eight hours shall constitute a day's work for persons employed by him in the performance of his contract.

The Act is free from mandatory provisions, since it submits the question as to whether an amendment of the contract shall be made, with respect to the eight-hour clause, to the judgment and discretion of the Aqueduct Commissioners, subject to the approval of the Board of Estimate and Apportionment. It leaves, too, to the contractor, entire freedom to accept or reject such an amendment of his contract.

We have pointed out to you the unequal and unjust condition to which certain of the laborers on the Jerome Park Reservoir are subjected. These laborers have been very patient and indulgent, submitting reluctantly to the injustice from which they were suffering, in the hope and expectation that relief would come to them through the passage of the Act of 1902. The Act was promptly passed by the Legislature, and approved by the Mayor of The City of New York, in recognition of the declared policy of the State that eight hours shall constitute a day's work for all laborers on public works.

We trust that your Honorable Boards will recognize the manifest equity of our request and use your power and influence to secure such amendment and modification of the contract for the construction of the Jerome Park Reservoir as shall enable all laborers on that important work to have the benefit of the Eight-hour Law as respects the hours of labor.

Respectfully submitted,
NEW YORK CENTRAL FEDERATED UNION.

JOHN J. PALLAS, Corresponding Secretary,
No. 184 Eldredge street.

CITY OF NEW YORK—DEPARTMENT OF FINANCE,
COMPTROLLER'S OFFICE,
July 7, 1902.

Hon. EDWARD M. GROUT, Comptroller:

SIB—Chapter 588, Laws of 1902, entitled "An Act relative to the powers of the

Aqueduct Commissioners, provided for and holding office under and pursuant to chapter 490 of the Laws of 1883, and its amendments.

"Became a law April 14, 1902, with the approval of the Governor.

"Passed, three-fifths being present. Accepted by the City.

"The People of the State of New York, represented in Senate and Assembly, do enact as follows:

"Section 1. The Aqueduct Commissioners, provided for and holding office under and pursuant to the provisions of an act of the Legislature of the State of New York entitled, 'An act to provide new reservoirs, dams and a new aqueduct with the appurtenances thereto, for the purpose of supplying The City of New York with an increased supply of pure and wholesome water,' said act being chapter four hundred and ninety of the Laws of Eighteen Hundred and Eighty-three and its amendments, are hereby authorized and empowered to agree with any person, firm or corporation with whom they have contracted or may hereafter contract, upon such terms and conditions as shall, in their judgment and discretion, be for the best interests of The City of New York, that eight hours shall constitute a day's work for all laborers employed by said person, firm or corporation in the performance of his or its contract, and that no laborer employed in the performance of any such contract shall be required, permitted or allowed to work more than eight hours. No agreement made under the provisions of this act shall be valid or binding until the same has been approved by the Board of Estimate and Apportionment of The City of New York.

"Sec. 2. This act shall take effect immediately."

This law is entirely permissive, authorizing and empowering the Aqueduct Commissioners to agree with any person, firm or corporation with whom they have contracted upon such terms and conditions as shall, in their judgment and discretion, be for the best interest of The City of New York, that eight hours shall constitute a day's work. The only restraint placed upon this agreement is that it shall not be valid or binding until the same has been approved by the Board of Estimate and Apportionment. No directions are contained in this law as to the manner in which the terms of this agreement shall be made up, or what factors shall be taken into consideration.

In my opinion, inasmuch as the law confines itself to the change to the eight hours for the limit of the time for a day's work, any calculation for fixing "terms and conditions" must be based on the present time of a day's work, which is generally ten hours, and its reduction to eight hours under the agreement permitted under the law.

Mr. F. S. Cook, Acting Chief Engineer, in his report to the Aqueduct Commissioners, June 3, 1902, says that the "Contractors propose an additional increase on labor, as applied to each item in said schedule, equal to 27 1/2 per cent. of the contract price for said item. I have gone into the details, and find that they arrive at the percentage by taking their yearly payroll as shown on their books, which amounts to \$340,809.98, and adding to it the total fixed charges for one year, made up of interest on cost of plant, \$20,430; rentals for right of way over which to operate the plant, etc., \$22,400; total, \$42,830, or a grand total of \$383,639.98. This will show, if worked out, 27.79 per cent. that should be charged for increase on labor and plant, or 25 per cent. on labor plus 2.79 per cent. on plant, which they call 27 1/2 per cent. on labor applied to each item.

He finds this brings an additional cost "by reason of this change of hours" of \$512,278.37, equal to 19.65 per cent. of the cost at former prices.

Under the law, I think in any agreement the Aqueduct Commissioners may make, they can only take into consideration the change from ten hours to eight hours for a day's work. If we assume that the work that men do is in proportion to the number of hours they are engaged, and that the price for an eight-hour day is the same as for a ten-hour day, the contractor, by the contemplated change, would lose one-fifth in working time; that is, he would pay one-fourth or 25 per cent. more for the labor for which he would receive no return.

I see nothing in the law authorizing any allowance for plant or rentals, and I do not, therefore, consider that these items should enter into any agreement, as covered by the law.

The total amount of the contract yet to be done is.... \$2,605,968 66

Of this the material amounts to..... 744,002 15

Leaving for the labor..... \$1,861,966 51

One-quarter or 25 per cent. of this amount is..... 465,491 63

—which, in my view, represents the sum which might be considered in any agreement, made under the law.

The bids for the present contract on which the work has been prosecuted up to this time were opened July 10, 1895.

There were eighteen bids, ranging from the lowest, that of John B. McDonald, at \$5,473,060, to \$13,368,200. The contract is made on each item as therein stated.

Whether the fact of the contract so made in pursuance of law will have any legal bearing on any change proposed under chapter 588, Laws of 1902, I do not discuss, considering it a question which should receive the consideration of the Corporation Counsel.

Respectfully,

EUG. E. McLEAN, Engineer.

BOARD OF ESTIMATE AND APPORTIONMENT,
CHIEF ENGINEER'S OFFICE, CITY HALL,
NEW YORK, July 7, 1902.

Hon. SETH LOW, Mayor of The City of New York:

SIR—Having been advised by Mr. F. S. Cook, Assistant Chief Engineer of the Croton Aqueduct Commission, that the Chief Engineer of the Commission had been requested to consult with the Engineers of the Department of Finance and of the Board of Estimate and Apportionment concerning the proposed modification of the contract of Mr. John B. McDonald for building the Jerome Park Reservoir, Engineer McLean and myself have had several conferences with the Chief Engineer and Assistant Chief Engineer of the Aqueduct Commission upon the subject. At two of these conferences there were present a representative of the contractor.

Changes in this contract are presumed to have been authorized by chapter 588 of the Laws of 1902, which provides that the Aqueduct Commissioners may "agree with any person, firm or corporation with whom they have contracted or may hereafter contract upon such terms and conditions as shall, in their judgment and discretion, be for the best interests of The City of New York, that eight hours shall constitute a day's work for all laborers performed by said person, firm or corporation in the performance of his or its contract." The approval of the Board of Estimate and Apportionment is required before any such agreement shall be valid.

The intent of the law doubtless is that the working time of the men now employed upon any of these contracts may be reduced from ten to eight hours a day, and that the Contractor shall be reimbursed for the additional cost of doing the work on an eight-hour basis. It is claimed that only three kinds of laborers are employed for eight hours a day, viz.: Brick Layers, Granite Cutters and Calkers, all others working ten hours. The Contractor has submitted a statement showing the increased cost of each kind of work covered by his contract if this change in working hours should be made. His figures have been tabulated quite elaborately by the Engineers of the Aqueduct Commission, each price under the present contract being divided into two parts, one of which represents the cost of material and labor now on an eight-hour basis, while the other shows the part chargeable to ten-hour labor. I understand the Contractor to also claim that the former includes his profit upon each class of work. The additional cost is estimated upon the basis of an increase of 25 per cent. in the time to be consumed, and consequently in the amount to be paid for what is now ten-hour labor, with an added percentage to cover his increased fixed charges, consisting of use of plant, rentals, etc.

It is admitted that these so-called fixed charges include an annual salary of \$10,000 to Mr. McDonald. The increased prices applied to the amount of work still remaining to be done shows that the cost of the work to the City would be increased \$512,278.37. This increase would be paid in order that the working time of all the men employed for ten hours might be reduced to eight hours a day, the City receiving no direct benefit. The tabulated statement is ingenious but quite complicated, and it is almost impossible to test the accuracy of the Contractor's figures. It is based throughout upon the assumption that the cost of eight-hour labor is 25 per cent. greater than ten-hour labor, or that there is no increase whatever in efficiency. It is also assumed that the proportion of what is now eight-hour labor to the total payroll will remain the same as for the past year during the remainder of the work. It is usually claimed that a man will do better work if his hours of labor are decreased, or he will do more than four-fifths as much in eight hours as he will in ten hours. This seems

reasonable, and is one of the strongest arguments in favor of an eight-hour day. If it be true, the cost of this labor to the Contractor will not be increased at 25 per cent.

In order to test in a general way the fairness of the Contractor's figures, I have attempted to estimate the increased cost of the remaining work to be done on the Jerome Park Reservoir on an eight-hour basis by a comparison of the amount paid to him during the twelve months from May, 1901, to April, 1902, inclusive, which are those upon the payrolls for which he bases his estimates. I have assumed that the Contractor is making a profit of 15 per cent. upon the amount earned, or the cost of the work to the City. Finding then the ratio of the cost of ten-hour labor to the assumed cost of the work to the Contractor, and applying this ratio to 85 per cent. of the cost to the City of the work remaining to be done, we find the probable amount yet to be paid for ten-hour labor. If there is to be no increase in efficiency, this would be 25 per cent. more if charged to eight hours, or the cost of the Contractor would be \$443,014.67 greater, while if the time required to complete the work be increased one-fourth, his fixed charges will be increased by the further sum of \$53,537.50. The computation is given in detail, as follows:

Cost to City of work still to be done at contract prices.... \$2,605,968 66

Less assumed profit of 15 per cent..... 390,895 29

Assumed cost to Contractor to complete work..... \$2,215,073 37

Amount paid to Contractor for twelve months from May,

1901, to April, 1902, inclusive (Comptroller's books)..... \$411,332 78

Representing 90 per cent. payments on amount earned..... 457,036 33

Less assumed profit of 15 per cent..... 68,555 44

Assumed cost to Contractor to complete work..... \$388,480 80

Amount of ten-hour labor shown by Contractor's payrolls for these twelve

months..... \$311,368 24

Ten-hour labor being 80 per cent. of total cost, 80 per cent. of total cost to

complete (\$2,215,073.37)..... \$1,772,058 70

If time of this labor in days is increased 25 per cent., cost will be also

increased 25 per cent. if there be no increase in efficiency, or..... \$443,014 67

Time to complete estimated at five years would be increased 25 per cent.,

or 1 1/4 years.

Fixed charges stated by Contractor to be \$42,830 a year, or increase for

1 1/4 years additional time..... 53,537 50

No deduction being made for overtime, increased cost would be..... \$496,552 17

It will be seen that the result obtained in this way is surprisingly near that deduced by the contractor by his elaborate figures.

Mention has not been made of the fact that the contractor will greatly exceed his contract time, which will expire on November 1 of the present year, and the contract provides that there shall be charged against him any loss or additional expense which the City may incur by his delay to complete the work on or before that date.

It is stated that as all other public work, of which much is under way in the vicinity of the reservoir, is now on an eight-hour basis, the contractor can only secure the most inferior class of labor, the better men being attracted and engaged on work where the hours are shorter. It is fair to assume therefore that the change will certainly result in somewhat greater efficiency and that the allowance for increased fixed charges is unnecessary.

I have assumed that the contractor's statements as to the amount of his payroll, the proportion of eight-hour labor to the total, and his fixed charges due to interest on plant, rentals, etc., are accurate. While I have no means of verifying them, the Aqueduct Commission doubtless has.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The Secretary thereupon verbally stated that, by direction of the President, he had on July 14, 1902, transmitted copies of the documents above referred to, together with copy of Report No. 385, of Chief Engineer Hill, to Messrs. McDonald & Onderdonk, Contractors for the Jerome Park Reservoir.

On motion of Commissioner Windolph, the action of the President was approved.

Mr. John B. McDonald, of the firm of McDonald & Onderdonk, then addressed the Commissioners relative to the subject matter of the above communications.

Whereupon, on motion of Commissioner Power, the above communication of the Deputy Comptroller, together with all the documents relative to the subject matter thereof, were referred to the Construction or Executive Committee.

A printed circular letter was received from the Corporation Counsel, dated June 30, 1902, being in relation to a time clause, etc., to be inserted in contracts.

On motion of Commissioner Ryan, the Secretary was directed to furnish the Chief Engineer with a copy of such circular letter, and the letter was ordered filed.

The Secretary presented a communication received from the Merchants' Association of New York, dated July 11, 1902, acknowledging receipt of data furnished to said Association.

Which was ordered filed.

A communication was received from the Auditor of Accounts, Department of Finance, dated July 12, 1902, giving notice that the claim of John Early's Sons for \$39.73 had been audited at \$38.23, being a deduction of \$1.50 therefrom.

On motion of Commissioner Windolph, the Secretary was directed to cause the proper entry thereof to be made in the books of account.

A communication was received from the Superintendent of School Supplies, Board of Education, dated July 11, 1902, stating that said Board was about to dispose of two horses, buggy and school books, and asking if the same could be utilized by this Commission.

Which was ordered filed.

The Secretary presented abstract of trial balance of the Aqueduct Commissioners to June 30, 1902, as follows:

Abstract of Trial Balance, June 30, 1902.

Advertising	\$18,975 49
Aqueduct Commissioners' Report, 1883-1887.....	\$8,901 51
Aqueduct Commissioners' Report, 1887-1892.....	5,011 13
.....	
13,912 64	
Reports of Engineers and Aqueduct Commissioners on Quaker Bridge	
Dam	\$1,473 16
Reports of Engineers on High Masonry Dam.....	490 73
.....	
1,963 91	
Auxiliary Offices, Division Engineers.....	4,187 13

Books, Maps and Drawings—

Chief Engineer's office.....	\$30,007 22
Tarrytown office.....	92 81
Division Engineers.....	914 88
Surveying dam sites.....	8 00
Commissioners' office.....	1,573 27
	<hr/> 34,596 18

Consulting Engineers' fees

Claims for damages.....	\$2,438 50
Construction damages.....	699 50
	<hr/> 3,138 00

Diamond Rock Boring Drills.....

Diamond Rock Borings.....	\$158,669 75
	7,096 17
	<hr/> 165,765 92

Drawing Instruments, Tables and Materials—

New York office.....	\$5,974 22
Tarrytown office.....	1,127 78
Division Engineers.....	4,716 13
New Reservoir survey.....	25 68
Croton Lake survey.....	1 00
Surveying dam sites.....	7 80
	<hr/> 11,852 61

Drivers and Laborers at Tarrytown.....

Engraving and printing.....	14,089 93
	<hr/> 32,892 36

Field Instruments and Implements—

Tarrytown, etc.....	\$8,791 99
Division Engineers.....	29,598 50
Croton Lake survey.....	581 76
New Reservoir survey.....	414 31
Sodom Dam survey.....	86 49
Surveying dam sites.....	114 42
	<hr/> 39,608 96

Furniture and Fixtures—

Commissioners' office.....	\$4,904 65
Chief Engineer's office.....	5,471 79
Tarrytown office.....	750 75
Division Engineer's office.....	7,185 37
New Reservoir survey.....	6 38
Principal Assistant Engineer.....	36 24
Surveying dam sites.....	37 50
	<hr/> 18,392 18

Hire of Horses and Wagons—

Croton Lake survey.....	\$130 25
Division Engineer.....	1,388 45
Tarrytown, etc.....	7,047 75
Sodom Dam survey.....	59 75
Surveying dam sites.....	192 00
	<hr/> 6,618 70

Horses—

Tarrytown, etc.....	\$3,573 00
Division Engineers.....	4,355 00
	<hr/> 7,928 00

Wagons—

Tarrytown, etc.....	\$1,518 00
Division Engineers.....	3,627 40
	<hr/> 5,145 40

Harness and Stable Fittings—

Croton Lake survey.....	\$0 45
Tarrytown, etc.....	2,051 20
Division Engineers.....	3,126 57
	<hr/> 5,178 22

Heating Headquarters—

Division Engineers.....	\$17,225 28
Principal Assistant Engineer, New York office.....	9 25
Surveying dam sites.....	6 93
	<hr/> 17,241 46

Incidental Expenses—

Commissioners' office.....	\$15,377 03
Chief Engineer's office.....	11,385 31
Tarrytown office.....	4,227 91
Croton Lake survey.....	17 34
Surveying.....	57 53
New Reservoir survey.....	52 06
Division Engineers.....	31,207 34
Sodom Dam survey.....	44 98
Principal Assistant Engineer, New York office.....	53 36
Surveying dam sites.....	896 18
East Branch Reservoir Dam.....	165 00
	<hr/> 63,484 06

Laborers on the line.....

Laborers on the line, Division Engineers.....	\$2,703 17
	15 75
	<hr/> 2,718 92

Land Agents.....

Monumenting the line.....	\$5,712 98
Monumenting Aqueduct Tunnel, Division Engineer.....	145 72
Monumenting Sodom Dam survey.....	1,546 72
	<hr/> 5,405 42

Models.....

	1,866 43
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Maintenance of Horses, Wagons and Harness—

Tarrytown, etc.....	\$11,122 82
Division Engineers.....	29,901 75
Croton lake survey.....	51 60
Sodom dam survey.....	2 00
Surveying dam sites.....	703 05
	<hr/> 41,872 12

Maintenance of Shafts, Gate-houses, etc.....

Observatory Towers.....	10 50
	<hr/> 1,805 95

Rent—

Commissioners' office.....	\$75,462 80
Chief Engineer's office.....	91,590 95
Tarrytown office.....	6,600 00
Division Engineers.....	27,340 61
Croton lake survey.....	24 00
Surveying dam sites.....	815 70
	<hr/> 198,814 06

Stationery—

Commissioners' office.....	\$7,067 15
Chief Engineer's office.....	9,035 56
Tarrytown office.....	1,180 41
Division Engineers.....	9,550 08
New reservoir survey.....	3 91
Sodom dam survey.....	1 50
Principal Assistant Engineer, New York office.....	39 96
Surveying dam sites.....	33 39
	<hr/> 26,931 87

Salaries—

Commissioners.....	\$413,320 00
Secretary and employees.....	240,181 52
Chief Engineer's office.....	733,650 00
Division Engineers and Laborers, old account.....	153,854 84
Division Engineers and Laborers, new account.....	2,574,355 11
Tarrytown office.....	57,602 24
Croton Lake survey.....	19,620 04
New Reservoir survey.....	9,588 00
Sodom Dam survey.....	7,072 68
Surveying dam sites.....	20,402 76
	<hr/> 4,075,932 85

Stenographic reports.....

	4,404 39
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Testing Machines and Tests—

Chief Engineer's office.....	\$8,215 31
Division Engineers.....	5,361 07
	<hr/> 13,576 38

Taxes on lands.....

	72,167 63
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Traveling Expenses—

Commissioners and employees.....	\$4,474 75
Engineers, Tarrytown, etc.....	4,094 53
Division Engineers.....	13,275 61
New Reservoir survey.....	8 84
Croton Lake survey.....	349 92
Sodom Dam survey.....	47 10
Surveying dam sites.....	930 16
	<hr/> 23,171 13

Judgments.....

Land and land damages.....	\$73,878 07
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Examination of ventilation and lighting.....	1,306 36
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Examining Engineers.....	11,041 82
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Board of Experts, etc., Quaker Bridge Dam.....	14,550 00
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Experts examining construction work.....	26,926 16
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Experts on water gates and other machinery.....	210 00
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Inspection of cast-iron pipes, etc.....	8,414 20
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Abating nuisances in the Croton watershed.....	14,460 17
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Monumenting Brewster's Reservoir.....	385 00
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Bronze memorial tablets.....	1,350 00
	<hr/> 150,329 88

Contracts.

	Esti- mate.	Contractor.	
Section 1.....	Final	Smith & Brown.....	\$649,964 62
" 2.....	"	Brown, Howard & Co.....	2,493,664 38
" 3.....	"	".....	1,838,242 04
" 4.....	"	".....	1,807,819 50
" 5.....	"	".....	812,370 01
" 6.....	"	O'Brien & Clark.....	748,852 97
" 7.....	"	".....	1,783,419 68
" 8.....	"	".....	1,457,678 22
" 9.....	"	".....	1,034,161 97

Estimate.	Contractor.	
" B.....	Heman Clark.....	1,516,572 46
" A.....	".....	1,105,840 58
" 12.....	O'Brien & Clark.....	401,740 13
" 12.....	Final Chas. Peterson, assignee of O'Brien & Clark.....	140,182 91
" 13.....	John Brunton & Co.....	427,641 42
" 14.....	".....	647,869 75
" 15.....	Richard A. Malone.....	156,358 20
" 15 1/2.....	Robert Hanna & Co.....	27,416 82
" 16.....	O'Brien & Clark.....	1,073,220 34
" 17.....	Richard J. Malone.....	37,621 69
East Branch Reservoir Dam,	Sullivan, Rider & Dougherty.....	436,499 05
Dams 1 and 2, and adjacent tunnel.....	David R. Paige & Co.....	129,798 04
Deepening and finishing Shaft No. 24.....	Final O'Brien & Clark.....	91,994 59
Iron-lined masonry Aqueduct, near Shaft 30.....	Breuchaud, Pennell & Co.....	69,369 20
Stop-cock valves, etc., in Section 15.....	Coldwell, Wilcox & Co.....	19,649 53
Gate-house superstructure, etc., at Pocantico.....	John Peirce.....	21,717 92
Shaft 13A, Section 7.....	O'Brien & Clark.....	29,963 40
Shaft 13 1/2, Section 7.....	".....	18,093 69
Shaft 15 1/2, Section 7.....	John A. Lee.....	15,412 90
One Hundred and Thirty-fifth Street Gate-house doors, windows, etc., Section 19.....	Charles W. Palmer.....	6,935 00
Cast-iron work, wrought-iron work, etc., New Croton Gate-house, Section 1.....	Coldwell, Wilcox & Co.....	16,057 02
Highways or roads, etc., at East Branch and Big Brook Reservoir.....	Clinton Stephens.....	90,851 69
Gate-house superstructure walls for Blow-off Chamber at Ardsley, Section 7.....	O'Brien & Clark.....	4,900 00
Cutting timber and clearing grounds, East Branch and Big Brook Reservoirs.....	Pennell & O'Hern.....	8,973 00
22 1/2 feet by 5 feet sluice gates, etc., Sections 15 and 17.....	John Fox.....	14,190 00
3 feet by 4 feet sluice gates, etc., Pocantico, Ardsley and South Yonkers, Gate-houses, Sections 4, 7 and 9.....	".....	6,750 00
3 feet by 6 feet sluice gates, etc., New Croton Gate-house, Section 1.....	".....	21,900 00
Earth and masonry dam, "Reservoir M," on Titticus River, near Purdy's station.....	Washburn, Shaler & Washburn.....	926,329 11
Gate-house superstructure at South Yonkers, Section 9.....	Final O'Brien & Clark.....	20,342 79
Gate-house superstructure, etc., for new gate chambers, at Croton Dam, Section 1.....	Smith, Brown & Coleman.....	51,783 01
Combined stationary hoisting engines, etc., for Shaft 25, Section 12.....	Final Charles Peterson.....	11,250 00
Two pairs horizontal tubular boilers, etc., Shaft 25, Section 12.....	West Point Manufacturing Co. (Limited).....	11,900 00
Earth and masonry dam, "Reservoir D".....	Michael S. Coleman.....	127,039 74
Earth and masonry dam, "Reservoir D".....	Final Coleman, Washburn & Coleman, assignees.....	276,201 90
Auxiliary earth and masonry dam, near Crait's Station, "Reservoir D".....	Michael S. Coleman.....	57,480 99
Auxiliary earth and masonry dam, near Crait's Station, "Reservoir D".....	Final Coleman, Washburn & Coleman, assignees.....	98,614 59
Eleven head-house superstructures, etc., for the shafts.....	Breuchaud, Pennell & Co.....	40,251 28
Blow-off Shaft 24, Section A.....	John M. Waddle.....	1,644 91
Blow-off Shaft 24, Section A.....	Final John F. Gaynor, assignee of John M. Waddle.....	19,557 43
".....	New York Central & Hudson River Railroad Company.....	491 84
Two complete portable hoisting plants.....	West Point Manufacturing Co. (Limited).....	7,800 00
Highway, retaining walls, appurtenances, etc., Croton Dam.....	Augustine M. Newton.....	16,717 09
Grading, improving and fencing grounds, One Hundred and Thirty-fifth Street Gate-house.....	Peter J. Moran.....	9,564 77
Grading, improving and fencing grounds at several of the shafts.....	Hyman Levy and Thomas Quinn.....	22,374 14
Head-house and engine-room superstructure, etc., Shaft 25, Section 12.....	John Peirce, assignee of W. H. Baker.....	43,605 80
Two brick engine-houses for the portable hoisting plants.....	John Twinnam.....	9,246 00
Fencing, etc., East Branch Reservoir.....	Final J. E. Brooks.....	10,647 73
Highway, Roads, etc., "Reservoir D".....	P. J. Moran.....	3,683 52
Highway roads, etc., "Reservoir D".....	Final J. Flanagan, assignee.....	96,481 11
Highway roads, etc., "Reservoir M".....	J. Twinnam.....	66,866 83
6 sluice gates, etc., Titticus River.....	Coldwell, Wilcox & Co.....	4,479 00
Highways, etc., "Reservoir D".....	J. Flanagan.....	128,643 92

Estimate.	Contractor.	
Highways, etc., "Reservoir D," East Branch.....	W. E. Nolan.....	2,051 17
New highways, etc., Cortlandt, N. Y.....	J. Twinnam.....	20,248 01
Highways, etc., East Branch, "Reservoir D".....	P. F. Curran.....	12,648 26
Fences, etc., "Reservoir M".....	W. Gilmore.....	3,079 17
Fences, etc., "Reservoir D".....	P. F. Curran.....	4,025 08
Tunnel, etc., Jerome Park Reservoir.....	Clark & Co.....	3,441 33
Tunnel, etc., Jerome Park Reservoir.....	J. B. McDonald, assignee.....	9,964 60
New Croton Dam.....	J. S. Coleman.....	660,104 90
".....	Coleman, Ryan & Brown, assignees.....	1,526,847 93
Jerome Park Reservoir.....	J. B. McDonald.....	468,873 24
Retaining masonry, etc., Shaft 25.....	Final J. Twinnam.....	96,014 05
Keeper's House, etc., Jerome Park Reservoir.....	Mahony Bros.....	20,118 46
Retaining, etc., Shaft 25.....	J. J. Hart & Co.....	21,095 28
Grading, etc., roads about Keeper's House, Jerome Park Reservoir.....	J. Twinnam.....	4,020 26
Jerome Park Reservoir.....	McDonald & Onderdonk, assignees.....	1,540,226 18
New Croton Dam.....	Coleman, Breuchaud & Lefeman, assignees.....	2,250,010 14
Blow-off Sewers, Jerome Park Reservoir.....	Kelly & Kelley.....	101,060 22
Muscoot Dam.....	Williams & Gersile.....	28,817 13
		\$30,116,815 86

Agreements.

Estimate.	Contractor.	
Shaft 11C, Section 9.....	Final Brown, Howard & Co.....	\$5,000 00
Shaft 12C, Section 6.....	O'Brien & Clark.....	5,000 00
Shaft 16 1/2, Section 8.....	".....	5,000 00
Shaft 18 1/2, Section 9.....	".....	5,000 00
Shaft 19 1/2, Section 11.....	Heman Clark.....	5,000 00
Shaft 17 1/2, Section 8.....	Thomas O'Hern.....	2,762 12
Culvert at Shaft 19, Section 9.....	O'Brien & Clark.....	4,893 74
Culvert at Shaft 20, Section 11.....	Heman Clark.....	2,012 05
Culvert at Shaft 23, Section A.....	O'Brien & Clark.....	3,208 86
Crib Dock, near Shaft 25, Section 12.....	Charles Peterson.....	1,604 60
Ironwork—		
For Saw Mill River Blow-off, etc., Section 7.....	Final Coldwell, Wilcox & Co.....	1,962 57
For Pocantico Blow-off, etc., Section 4.....	".....	144 11
For Tibbitt's Brook Blow-off, etc., Section 9.....	".....	144 11
For lining Shafts 22 and 23, Section A.....	".....	3,463 43
For lining Shaft 20, Section B.....	".....	2,663 28
For lining Shaft 28, Section 13.....	".....	2,315 03
For lining Shaft 29, Section 14.....	".....	2,358 37
For lining Shaft 24, Section A.....	The McNeal Pipe and Foundry Co.....	987 34
Cast and wrought-iron ladders for Shafts, Sections 1 to 9 and 11 and A.....	Coldwell, Wilcox & Co.....	2,824 25
Roof, iron floor plates, etc., at Ardsley Gate-house, Section 7.....	".....	3,126 70
Cast-iron special pipe lining and manhole covers, etc., Shaft 24, Section A.....	".....	4,931 19
Filling low ground, Shaft Site No. 12, Section 5.....	O'Brien & Clark.....	4,010 00
Cave-in Shaft 13, Section 7.....	".....	5,000 00
Laying 20-inch pipe along the incline adjacent to Shaft 24, Section A.....	".....	2,895 83
Grouting near Shaft 17 1/2, on Section 8.....	".....	4,427 50
Grouting, Stations 778+00 and 779+30, Section 7.....	".....	1,075 00
Grouting on Section 13.....	Rodgers, Shanly & Co.....	5,000 00
Grouting near Shaft 30.....	Breuchaud, Pennell & Co.....	9,900 93
Highway, trestle-work and bridges at Croton Dam, Section 1.....	Smith & Brown.....	4,500 00
Sodding the South Yonkers embankment on Section 9.....	Rider & Dougherty.....	1,575 57
Taking down and enlarging top of Shaft 11C, Section 5.....	C. L. Kalmbach.....	2,917 32
Walls, foundations, etc., near Blow-off Chamber, Shaft 25, Section 12.....	Charles Peterson.....	2,711 12
Frame head-house and engine-room at Shaft 25, Section 12.....	".....	1,490 00
Frame boiler-house and coal bin at Shaft 25, Section 12.....	Final Charles Peterson.....	1,635 00

Estimate.	Contractor.	
9-inch anti-friction pump and improved turbine wheel, etc., Croton Dam Gate-house, Section 1	Joseph Edwards & Co.	2,735 00
6 2-inch by 3-inch sluice-gates at Bog Brook and Sodom Dams	John Fox	4,200 00
Pivot Gate, Bog Brook Dams 1 and 2	Coldwell, Wilcox & Co.	2,445 00
Finishing Shaft 21	William H. Baker	1,660 81
Fence at Shaft 24	E. V. Smith	865 24
Sodding, etc., at Shaft 24	J. Twinnam	900 90
2 Gates Bog Brook Tunnel	J. Fox	2,750 00
2-story building	J. Schlachter	4,650 00
Bridge at Shaft 12	D. Carpenter	816 50
Cutting timber, Reservoir "M"	J. L. Merritt	3,448 00
Bridge at Reservoir "M"	Berlin Iron Bridge Co.	673 00
Bridge at Carmel, N. Y.	"	1,122 00
Clearing, etc., Reservoir "M"	W. Gilmore	1,150 00
Iron pipe, special castings	Coldwell, Wilcox & Co.	1,224 67
Cutting timber, etc., at Reservoir voir "D"	J. Managan	3,800 00
Hoisting apparatus, N. C. D.	Coldwell, Wilcox & Co.	3,559 00
Bridge at Coles Mill, N. Y.	Berlin Iron Bridge Co.	1,390 00
3 gates, etc., Reservoir "D"	J. Fox	2,680 00
2 sluice gates, main dam sites, Reservoir "D"	Coldwell, Wilcox & Co.	1,499 00
3 sets beams, etc., Gate-house	W. H. Brodie & Co.	1,485 00
Hauling, pumping and taking care of water on Section A		\$1,699 73
Pumping Water in Iron Pipes—		
Section 12		6,063 65
Section 13		5,405 00
Section 14		7,933 00
Iron Pipe Laid in Tunnel—		
Section A		4,615 77
Section B		980 30
48-inch pipes at Shaft 111		327 50
48-inch stop-cock valves		4,500 00
Iron Work, etc.—		
At shafts		\$30,087 86
For gate-houses and blow-offs		28,220 37
For dams		16,548 35
Timber work, etc., at shafts and gate-houses		20,614 74
Explorations under the Harlem river		\$4,384 26
Experimental section in concrete, at Shaft 18		185 25
Extra Work, Etc.—		
On Section 1		4,616 03
On Section 6		42 70
On Section 13		171 35
On Section 14		696 21
On Section 15		89 32
On Section 16		668 98
Enlarging Shaft 111		147 81
On the Pocantico Gate-house		287 44
On the eleven head-houses		323 64
Grading, etc., at One Hundred and Thirty-fifth Street Gate-house		256 73
Dams 1 and 2		444 31
Blow-offs, etc., Shaft 25		615 24
Gate-house, etc., Croton Dam		288 20
Repairing, etc., new Croton Gate-house		111 32
Head-house, Shaft 25		328 13
Grading, etc., at shafts		749 01
Two-story building, New Croton Dam		545 45
Additional Work—		
On Section 9		\$40 37
On Section 12		65 73
On Section A		1,609 56
On East Branch Reservoir Dam		2,250 08
On Dams Nos. 1 and 2		480 06
On earth and masonry dam, "Reservoir M"		1,339 53
On highways or roads, etc., at East Branch and Bog Brook Reservoirs		5,095 00
On Shaft 21		95 85
On two brick engine-houses		911 75
On iron, etc., Aqueduct Shaft 30		2,000 00
On grubbing, etc., Shaft 24		40 70
On Shafts 15½-16		43 50
On gate-house, N. C. D.		2,384 41
On "Reservoir D"		3,120 50
On new highways, etc., N. C. Reservoir		1,641 19
Removing solid rock in Harlem river, near Shaft 25		\$701 03
Grading, etc., trenches, Quaker Bridge Dam site		150 00
Grading and finishing the grounds adjacent Shaft 19½		125 00
Surveys and topographical map, Croton watershed		7,000 00
Sounding south of One Hundred and Thirty-fifth street		931 18

\$154,286 31

31,497 14

95,471 54

14,953 88

10,127 23

Sinking Test Pits—

Settling basins	560 21
Titus River and "Reservoir D" dam sites	540 35
Cornell dam sites	63 56
Hoisting engines for shafts	1,700 00
Coating interior of Aqueduct with cement	8,184 37
Telephone line	4,995 62
Preparing, pumping, etc., inverted siphon sections	2,643 91
Preparing the Aqueduct for permanent use	211 66
Iron bridge on the East Branch of the Croton River	2,745 00
Fencing around reservoir, shaft sites, etc.	5,420 22
Drain, One Hundred and Sixty-seventh street and Amsterdam avenue, etc.	906 00
Repair Janitor's house, new Croton Dam	388 47
Iron pipe special castings, etc.	7,735 74
Twelve-inch water pipe for Sing Sing Prison	1,419 93
Filling, etc., about "Reservoir M"	831 68
46,853 93	
Resurfacing, etc., roads at "Reservoir M"	\$695 40
Iron pipe placed, etc., at Shaft 25	896 24
Transfer of highways, etc.	621 50
Culvert at Katonah, N. Y.	1,750 00
Extra work at Jerome Park Reservoir	6,888 11
Extra work at New Croton Dam	11,661 94
Extra work at New Croton Reservoir	2,022 27
Extra work at Purdy's Dam	1,051 32
Extra work at Cornell Dam	1,104 75
Extra work at Shaft 25	2,804 74
Extra work at retaining, etc., Shaft 25	1,399 64
Extra work at Keeper's house, etc., Jerome Park Reservoir	508 55
Iron bridges for new Croton Reservoir	4,138 10
Extra work at Shaft 24	631 40
Sinking test pits at Golden's and Pines Bridges	453 19
Engineer's office, etc., at old Croton Dam	1,400 00
Conduit at Dunwoodie, etc.	5,299 10
Repairs to Janitor's house, Croton River Division	36 81
43,363 55	

Commissioners of Appraisal—Awards.

Twenty-fourth Ward	\$3,159,926 32
Manhattan Island Section	784,012 08
Westchester County	3,984,547 65
Putnam County Section	1,053,505 37
8,011,991 62	

Commissioners of Appraisal.

City and County of New York	\$265,314 92
Westchester County	1,275,986 99
Manhattan Island Section	97,850 24
Putnam County Section	405,576 05
2,047,228 20	

Total Expenditures \$45,726,765 25

Cr.

Additional water stock	\$45,085,000 00
Premium account	1,307,918 45
Additional Water Fund—"Miscellaneous" receipts	19,618 55
Additional Water Fund—rent account	69,226 18
Additional Water Fund—sale of buildings account	50,146 19

Total Receipts 46,531,909 37

Balance—Comptroller's account \$805,144 12

Statement of Receipts and Expenditures of the Aqueduct Commissioners June 30, 1902.

RECEIPTS.

From Bonds Issued—	
Amount of bonds	\$45,085,000 00
Premium on same	1,307,918 45
From proceeds of sales of buildings, etc.	50,146 19
Rent	69,226 18
Miscellaneous receipts	19,618 55
Total Receipts 46,531,909 37	

EXPENDITURES.

Vouchers, pay-rolls, etc.	\$5,322,365 19
Contracts, agreements, etc.	20,271,102 12
Land and land damages	73,878 07
Commissioners of Appraisal—	
Awards	8,011,991 62
Fees of counsels, Commissioners, etc.	2,047,228 20
Total expenditures 45,726,765 25	

Balance—Comptroller's account 805,144 12

\$46,531,909 37

Which was ordered spread on the minutes and filed.

The Commissioners then adjourned.

HARRY W. WALKER, Secretary.

1902.	1901.
June 14. To	Department of Street Cleaning, Brooklyn.....
	Department of Water Supply, Manhattan and The Bronx.....
	Department of Water Supply, Brooklyn.....
	Department of Water Supply, Queens.....
	Fire Department, Manhattan and The Bronx.....
	Law Department.....
	Normal College.....
	Police Department.....
	Rents.....

NEW YORK COUNTY.

Board of City Record.....	49 42
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KINGS COUNTY.

Board of City Record.....	90 00
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1902.	1901.
Advertising.....	1,130 30
Armory Board, Manhattan.....	1,230 41
Armory Board, Brooklyn and Queens.....	1,256 19
Asylum of St. Vincent de Paul.....	716 00
Bellevue and Allied Hospitals.....	6,168 51
Beth Israel Hospital.....	554 76
Board of Building Examiners.....	1 20
Board of City Record.....	28,268 80
Board of Elections.....	255 00
Brooklyn Disciplinary Training School.....	195 60
Brooklyn Eye and Ear Hospital.....	89 14
City Magistrates' Courts, Second Division.....	833 28
Civil Service Commission.....	155 50
Children's Aid Society.....	7,405 97
College of the City of New York.....	53,716 38
Commissioners of Accounts.....	164 40
Convent of Sisters of Mercy, Brooklyn.....	4,580 23
Costs of Commitment of Insane Persons.....	20 00
Court of Special Sessions, First Division.....	250 00
Decoration Day Observances.....	2,500 00
Department of Bridges, Manhattan.....	611 10
Department of Bridges, The Bronx.....	149 45
Department of Bridges, Brooklyn.....	167 80
Department of Bridges, Queens.....	21 15
Department of Correction, Manhattan.....	4,095 90
Department of Correction, Brooklyn.....	933 17
Department of Education—General School Fund.....	19,744 80
Department of Education—Special School Fund.....	104,230 38
Department of Finance.....	869 81
Department of Health, Manhattan.....	5,406 66
Department of Health, The Bronx.....	5,844 18
Department of Health, Brooklyn.....	6,378 30
Department of Health, Queens.....	1,288 59
Department of Health, Richmond.....	12 50
Department of Parks, Manhattan and Richmond.....	18,475 24
Department of Parks, The Bronx.....	19,450 48
Department of Parks, Brooklyn and Queens.....	16,703 34
Department of Public Charities.....	48,935 55
Department of Street Cleaning, Manhattan and The Bronx.....	77,415 19
Department of Street Cleaning, Brooklyn.....	30,031 41
Department of Taxes and Assessments.....	141 30
Department of Water Supply, Gas and Electricity, Man- hattan.....	37,994 14
Department of Water Supply, Gas and Electricity, Brooklyn.....	31,331 06
Department of Water Supply, Gas and Electricity, Queens.....	411 89
Department of Water Supply, Gas and Electricity, Richmond.....	176 00
Fire Department, Manhattan and The Bronx.....	14,049 84
Fire Department, Brooklyn and Queens.....	3,013 06
Fire Department, Richmond.....	1,900 00
German Hospital, Brooklyn.....	333 80
German Hospital and Dispensary.....	279 80
Interest on the City Debt.....	6,394 38
Judgments.....	11,355 53
Law Department.....	1,715 38
Lebanon Hospital Association.....	600 34
Lutheran Hospital Association (City of New York and Vicinity).....	207 00
Mayoralty—Salaries and Contingencies.....	42 34
Mayoralty—Bureau of Licenses.....	200 00
Missionary Sisters, Third Order of St. Francis.....	6,670 01
New York Catholic Protectorate.....	130 78
New York Infant Asylum.....	5,261 20
New York Ophthalmic Hospital.....	277 48
Normal College.....	811 80
Police Department.....	6,101 18

PRESIDENT OF THE BOROUGH OF MANHATTAN.

Bureau of Buildings.....	39 13
Bureau of Engineers and Street Openings.....	126 00
Bureau of Highways.....	10,274 71
Bureau of Incumbrances.....	213 50
Bureau of Public Baths and Public Comfort Stations.....	1,256 75
Bureau of Public Buildings and Offices.....	9,438 13
Bureau of Sewers.....	5,701 77
General Administration.....	347 97

PRESIDENT OF THE BOROUGH OF THE BRONX.

Bureau of Buildings.....	30 00
Bureau of Highways.....	20,953 42
Bureau of Public Buildings and Offices.....	1,021 23
Bureau of Sewers.....	4,400 84
General Administration.....	127 83
Topographical Bureau.....	349 84

PRESIDENT OF THE BOROUGH OF BROOKLYN.

Bureau of Buildings.....	33 55
Bureau of Highways.....	9,420 88
Bureau of Public Buildings and Offices.....	1,153 63
Bureau of Sewers.....	2,421 59
Topographical Bureau.....	24 32

PRESIDENT OF THE BOROUGH OF QUEENS.

Bureau of Highways.....	12,556 40
Bureau of Public Buildings and Offices.....	486 86
Bureau of Sewers.....	1,060 50
Bureau of Street Cleaning.....	2,120 53
General Administration.....	148 92
Topographical Bureau.....	165 00

PRESIDENT OF THE BOROUGH OF RICHMOND.

Bureau of Highways.....	3,737 63
Bureau of Public Buildings and Offices.....	865 49
Bureau of Sewers.....	531 09
Bureau of Street Cleaning.....	1,067 01
General Administration.....	1,471 98
Public Library, Brooklyn.....	2,572 38
Queens Borough Library.....	32 91
Real Estate, Expenses of.....	40 00
Rents.....	874 00
Roman Catholic Orphan Asylum Society.....	6,371 77
Sheltering Arms Nursery, Brooklyn.....	204 89
Sloane Maternity Hospital.....	588 94
S. R. Smith Infirmary.....	1,120 65
St. Agatha's Home for Children.....	2,664 14
St. Catharine's Hospital.....	953 26
St. Christopher's Hospital for Babies.....	36 62
St. Elizabeth's Industrial School.....	213 75
St. Francis' Hospital.....	1,375 80
St. James' Home.....	860 20
St. Joseph's Hospital, New York City.....	5,234 08
St. Mary's Maternity and Infants' Home.....	78 40
St. Mark's Hospital, New York City.....	109 00
St. Michael's Home.....	1,440 71
St. Peter's Hospital.....	915 36
Tenement-house Department.....	877 31
Washington Square Home for Friendless Women.....	258 90

NEW YORK COUNTY.

Board of City Record.....	5,206 92
Commissioner of Jurors.....	745 30
District Attorney.....	1,840 25
Establishing and Maintenance of Library, Court of General Sessions and Supreme Court.....	1 00
Fees of Stenographers.....	536 13
Fees of Witnesses.....	5,000 00
Sheriff.....	390 40

1902.

June 14. Boroughs of Manhattan and The Bronx—

By Tapping, Manhattan.....	Kelly.....	\$74 89
Restoring and Repaving, Man- hattan.....	Livingston.....	2,633 75
Tapping, The Bronx.....	Gear.....	90 00
Restoring and Repaving, The Bronx.....	Haffen.....	31 90
Sundry Licenses.....	Brown.....	1,875 35
Arrears of Taxes, 1898, etc.....	McFadden.....	12,391 26
Interest on Taxes, 1898, etc.....	".....	4,904 34
Street Improvement Fund, June 15, 1896.....	".....	15,612 91
Interest on Assessments—Street Improvement Fund.....	".....	2,040 45
Fund for Street and Park Openings	".....	987 31
Interest on Assessments—Street and Park Openings.....	".....	405 07
Charges on Arrears of Assessments One Hundred and Fifty-fifth Street Viaduct.....	".....	21 00
	".....	478 79

Borough of Brooklyn—

New York and Brooklyn Bridge.....	Liudenthal.....	11,260 22
Water Rents.....	Tate.....	81,179 74
Water Revenue.....	".....	228 15
Sundry Licenses.....	McGuinness.....	519 50
Interest on Surplus Fund.....	Comptroller.....	57 22
Restoring and Repaving.....	Redfield.....	854 60
Arrears of Taxes, 1897, etc.....	McFadden.....	2,668 76
Interest on Taxes, 1897, etc.....	".....	1,160 29
Interest on Twenty-sixth Ward Bonds.....	".....	12 40
Interest on Interest on Twenty- sixth Ward Bonds.....	".....	5 77
Eighteenth Ward Improvement Fund —Installments and Assessments	".....	746 78
Twenty-sixth Ward Main Sewer— Installments.....	".....	846 01
Twenty-sixth Ward Main Sewer— Full Payment.....	".....	269 61
Sewer Assessments, Twenty-ninth Ward.....	".....	37 01
Twenty-sixth Ward Street Im- provement Fund—Installments.....	".....	51 36
Sewerage Fund, Laws of 1892 and 1894.....	".....	218 18
Assessment Fund.....	".....	385 14
Opening and Grading Assessments.	".....	266 85
Thirty-first Ward.....	".....	22 48
Assessments for Local Improve- ments—New Lots, Installments.	".....	515 46
Interest on Assessments.....	".....	2 34
Opening and Widening Streets.....	".....	31
Interest on Assessments—Opening and Widening Streets.....	".....	1,120 25
Arrears of Water Rents, 1897, etc.....	".....	662 77
Interest on Water Rents, 1897, etc.....	".....	

Borough of Queens—

Sundry Licenses.....	Smith.....	155 00
Water Rents.....	Roulier.....	4,270 10
Restoring and Repaving.....	Bernal.....	124 90

Long Island City:

Arrears of Taxes.....	McFadden.....	2,631 84
Interest on Taxes.....	".....	210 22
Arrears of Water Rents.....	".....	89 25
Interest on Arrears of Water Rents.....	".....	8 03
Sales for Arrears of Taxes.....	".....	25 58
Interest on Sales for Arrears of Taxes.....	".....	15 64

Town of Newtown:

Arrears of Taxes.....	".....	70 80
Interest on Arrears of Taxes.....	".....	8 68

Town of Flushing:

Sales—Arrears of Taxes.....	".....	39 48
Interest on Sales—Arrears of Taxes.....	".....	10 77

Village of Flushing:

Arrears of Taxes.....	".....	34 40
Interest on Arrears of Taxes.....	".....	2 27
Arrears of Water Rents.....	".....	7 14
Interest on Water Rents.....	".....	69
Sales—Arrears of Taxes.....	".....	40 73
Interest on Sales—Arrears of Taxes.....	".....	6 82

Town of Jamaica:

Arrears of Taxes.....	".....	4 02
Interest on Arrears of Taxes.....	".....	48
Arrears of School Taxes.....	".....	1 68
Interest on Arrears of School Taxes.....	".....	15
Arrears of Water Rents.....	".....	80
Interest on Arrears of Water Rents.....	".....	93
Arrears of Light Taxes.....	".....	4 74
Interest on Arrears of Light Taxes.....	".....	25

Village of Jamaica:

Arrears of Taxes.....	".....	5 63
Interest on Arrears of Taxes.....	".....	1 63

Borough of Richmond—

Water Rents.....	Dougherty.....	50 97
Sundry Licenses.....	Woolfe.....	80 00

State, Town and County Taxes:

Northfield.....	McFadden.....	77
Southfield.....	".....	32 47
Castleton.....	".....	313 97

Village Taxes:

Edgewater.....	".....	3 48
New Brighton.....	".....	38 00

Lamp Taxes:

Edgewater.....	".....	1 62
New Brighton.....	".....	12 00

Water Taxes—Edgewater.....

School Taxes, 29 Districts.....	".....	1 23
Interest on Taxes.....	".....	56 67
	".....	114 48

Assessment for Local Improve-
ments:

Edgewater.....	".....	84 00
New Brighton.....	".....	13 06
Interest on Assessments.....	".....	28 06

\$1,517,934 12

1902.	1902.	1902.	1902.
June 14, To Supreme Court, First Department.....	\$2,580 03		
KINGS COUNTY.			
Board of City Record.....	2,643 96		
County Court.....	10 94		
Disbursements and Fees, 658, Criminal Court Procedure.....	92 00		
Register.....	67 15		
Sheriff.....	296 47		
Supreme Court, Second Department, 1901.....	148 75		
QUEENS COUNTY.			
Commissioner of Jurors.....	143 10		
County Clerk.....	766 60		
District Attorney.....	249 97		
Public Administrator.....	100 00		
Sheriff.....	783 31		
Syracuse State Institution for Feeble-minded Children.....	80 00		
RICHMOND COUNTY.			
District Attorney.....	150 00		
Fees and Expenses of Jurors.....	1,500 00		
		\$791,798 84	
		\$1,428,057 20	
Balance.....		4,544,593 98	
		\$5,972,651 18	
			\$5,972,651 18
June 14, 1902. By Balance.....			\$4,544,593 98

E. & O. E. F. W. SMITH, Bookkeeper.

E. R. L. GOULD, City Chamberlain.

The Commissioners of the Sinking Funds of The City of New York, in account with ELCIN R. L. GOULD, Chamberlain, for and during the week ending June 14, 1902.

			Sinking Fund for the Redemption of the City Debt.		Sinking Fund for the Payment of Interest on the City Debt.		Sinking Fund, Redemption No. 2.		Sinking Fund, Brooklyn.		Sinking Fund, City of New York.	
			Dr.	Cr.	Dr.	Cr.	Dr.	Cr.	Dr.	Cr.	Dr.	Cr.
June 7. By Balance, as per last account current.....												
" 14. Street Improvement Fund.....	McFadden.....	\$18 35		\$1,611,141 37		\$1,107,004 02		\$204,850 97		\$20,397 60		
Sundry Licenses, Manhattan and The Bronx.....	Brown.....	\$7,874 25										
Sundry Licenses, Brooklyn.....	McGuinness.....	1,661 50										
Sundry Licenses, Queens.....	Smith.....	71 75										
Sundry Licenses, Richmond.....	Woelfe.....	9 50										
		9,617 00										
Market Rents and Fees, Manhattan and The Bronx.....	Gouldie.....	\$2,327 87										
Market Rents and Fees, Brooklyn.....	".....	2,018 25										
		4,346 12										
Market Cellar Rents.....	Gouldie.....	35 49										
Railroad Franchise.....	".....	531 92										
Dock and Slip Rents, Manhattan and The Bronx.....	Hawkes.....	\$17,689 41										
Dock and Slip Rents, Brooklyn.....	".....	254 25										
Dock and Slip Rents, Queens.....	".....	1 00										
Dock and Slip Rents, Richmond.....	".....	8 33										
		18,191 97										
Street Vaults, Manhattan and The Bronx.....	Livingston.....	15,266 86										
Street Vaults, Brooklyn.....	Redfield.....	60 00										
Interest on Deposits.....		256 80										
				\$8,307 61								
Arrears of Croton Water Rents, City of New York.....	McFadden.....	\$1,917 60										
Interest on Croton Water Rents, City of New York.....	".....	390 72										
Arrears of Croton Water Rents, 1897, etc.....	".....	1,159 35										
Interest on Croton Water Rents, 1897, etc.....	".....	447 00										
Croton Rents and Penalties, Manhattan.....	Kelly.....	127,521 25										
Croton Rents and Penalties, The Bronx.....	Gear.....	12,697 60										
House Rents, Manhattan and The Bronx.....	Gouldie.....	\$1,353 60										
House Rents, Brooklyn.....	".....	356 70										
		1,710 30										
Ground Rents, Manhattan and The Bronx.....	Gouldie.....	62 00										
Water Lot Rents.....	".....	1 16										
Court Fees and Fines, Brooklyn.....	Hartshorn.....	91 65										
						147,908 68						
Prospect Park Improvement—Installments.....	McFadden.....	\$298 98										
Interest on Prospect Park Improvement—Installments.....	".....	30 55										
										329 53		
To Sinking Fund, Redemption.....			\$7,291 30									
Sinking Fund, Interest.....				1,675 00								
Sinking Fund, Redemption No. 2.....								131,536 16				
Balances.....			1,652,157 08		1,253,237 70			73,314 81		\$20,397 13		
			\$1,659,448 28	\$1,659,448 28	\$1,254,912 70	\$1,254,912 70	\$204,850 97	\$204,850 97	\$20,397 13	\$20,397 13		
June 14, 1902. By Balances.....				\$1,652,157 08		\$1,253,237 70		\$73,314 81		\$20,397 13		

F. & O. E., F. W. SMITH, Bookkeeper.

E. R. L. GOULD, City Chamberlain.

Dr.	THE CITY OF NEW YORK, in account with ELGIN R. L. GOULD, Chamberlain, during the week ending June 14, 1902.		Cr.
1902. June 14. To Interest Registered.....	\$0.274 03	1902. June 7. By Balance.....	\$51,982 81
Balance	46,873 16	Interest Registered.....	4,184 38
	\$46,147 19		\$56,147 19
		June 14, 1902. By Balance	\$46,873 16

E. & O. E. F. W. SMITH, Bookkeeper.

E. R. L. GOULD, City Chamberlain.

Dr.		THE CITY OF NEW YORK, in account with ELGIN R. L. GOULD, Chamberlain, during the week ending June 14, 1902.		Cr.
1902.		1902.		
JUNE 14.	To Witness Fees	\$740 70	JUNE 7. By Balance	\$465 00
	Balance	4,734 39	Witness Fees	5,000 00
		\$5,405 09		\$5,465 00
			JUNE 14, 1902. By Balance	\$1,724 39

E. & O. E. F. W. SMITH, Bookkeeper.

E. R. L. GOULD, City Chamberlain.

Dr.		THE CITY OF NEW YORK, in account with ELGIN R. L. GOULD, Chamberlain, during the week ending June 14, 1902.		Cr.	
1902.	June 14. To Jury Fees	\$1,096 00	1902.	June 7. By Balance	\$13,607 00
	Balance	12,511 00			
		\$13,607 00			\$13,607 00
				June 14, 1902. By Balance	\$12,511 00

E. & O. E., F. W. SMITH, Bookkeeper.

E. R. L. GOULD, City Chamberlain.

POLICE DEPARTMENT.

New York, July 21, 1902.

The following proceedings were this day directed by the Police Commissioners:

Leave of Absence.

Patrolman William J. Farrell, Forty-fourth Precinct, thirty days' sick leave.

Death Reported.

John F. Kneagh, Patrolman, Sixteenth Precinct, July 20, 4.50 a. m.

Resignation of William Coogan as Special Patrolman accepted.

Runner License Granted.

Owen Cannon, No. 49 Carmine street, fee \$20, bond \$300.

Referred to Senior Inspector.

Application of A. S. Haight, Citizens' Union, for the appointment of William H. Lippert as Special Patrolman.

Notice from the Comptroller that the Board of Education has turned over to the Commissioners of the Sinking Fund two plots of land in the Borough of Richmond, viz.: (1) Easterly side of New York avenue (formerly Rossville avenue), formerly used for schoolhouse purposes in Rossville. (2) Northeast corner of Sloason avenue and Richmond Turnpike, in former Town of Castleton. For report if either or both can be utilized for immediate or future use of Police Department.

Referred to Civil Service Commission.

Application of Patrolman Edwin F. Wardel, Twenty-eighth Precinct, for examination for Roundsman.

Chief Clerk to Answer.

Edwin H. Johnson, asking permit to carry a revolver.

On File.

Acknowledgment from Mrs. Mary A. Thuman of receipt of notice of award of pension.

Report of Captain Moyulhan, Twenty-ninth Precinct, of arrest and discharge of Patrolman Anthony J. Miller.

On File, Send Copy.

Reports on communications forwarded by the Mayor from: Edward H. Wheland, South Africa, asking information concerning his mother; A. J. Drummond, No. 50 Fulton street, relative to a young girl found drunk in East River Park; L. Benham, Cincinnati, Ohio, relative to A. B. Field & Co.; Rudolph Koch, Fort Wayne, Ind., relative to Premium Soap Company; James Morton, New Liberia, Ga., relative to locating one W. M. Kent; J. P. Hurley, Limerick, Ireland, relative to whereabouts of Michael Hurley; Fred O. Whitman, Harrisburg, Pa., relative to Morgenthau, Brown & Co.; Mrs. Roberta Stevens Wilson, Camden, N. J., relative to whereabouts of her brother, James S. Stevens; Howard B. Perry, Wakefield, R. I., asking if 1188 Park avenue has been changed since 1897; V. Emanuel, Genova, Italy, asking if W. M. Ernest and several others are still in business in New York City.

On reading and filing report of the Chief Clerk.

Ordered, That all bids or estimates for Line Nos. 1, 3, 7, 13, 14, 21, 33 and 34 (Doorman's and Stable Supplies) be rejected, the Commissioner deeming it to be for the interest of the City so to do.

Ordered, That the bid or estimate of the Harral Soap Company to furnish the Police Department with Doorman's and Stable Supplies be and is hereby rejected, the said bid being informal, in that the bidder did not sign the bid and make affidavit thereto, as required by law.

Ordered, That the contracts for furnishing the Police Department with Doorman's and Stable Supplies be and are hereby awarded to the following named persons respectively for the sums and prices given, as follows:

Joseph Heineman, Line No. 9, \$352.50.
 Samuel Lewis, Line No. 25, \$37.
 M. Feigel & Bro., Lines Nos. 22, \$40.50; 23, \$30; total, \$70.50.
 Joseph N. Early, Lines Nos. 4, \$20; 11, \$220; 38, \$3; 46, \$36; total, \$279.
 Manhattan Supply Company, Lines Nos. 2, \$508.50; 12, \$15; 17, \$8.50; 18, \$15; 19, \$18.70; 36, \$22.20; 40, \$1.60; total, \$649.50.
 United States Trading Company, Lines Nos. 6, \$50; 8, \$50; 20, \$12.50; 24, \$33.50; 28, \$85; 30, \$20; 35, \$24; 37, \$12; 44, \$96; 45, \$22.50; total, \$405.50.
 D. J. Barry & Co., Lines Nos. 5, \$588; 10, \$314.70; 15, \$2.36; 16, \$2.76; 29, \$50; 39, \$6.30; 41, \$13.50; total, \$977.62.
 Jenkins Brothers, Line No. 42, \$83.33.
 T. C. Dunham, Inc., Line No. 43, \$112.40.
 George Worthington, Lines Nos. 26, \$23; 27, \$390; 31, \$65; 32, \$26.50; total, \$504.50. Grand total, \$3,471.85, and that such contracts be executed by the Commissioner for and on behalf of the Police Department for the sums herein named on the approval of sureties by the Comptroller.

Transfers, etc., Ordered by the Commissioner.

July 18, p. m.

The following Detective Sergeants, remanded to rank of Patrolman, transferred to precincts set opposite their names:

Michael J. Dempsey, Thirty-third Precinct.
 James J. Kiernan, Twenty-fifth Precinct.
 Henry Hahn, Fourteenth Precinct.
 Charles J. McCarthy, Sixth Precinct.
 Patrolman Francis P. Reynolds, from Health Squad to Twenty-fifth Precinct.
 Patrolman Dominick G. Riley, from Seventh Precinct to Thirty-second Precinct, detailed to bicycle duty.
 Patrolman James Devaney, from Twentieth Precinct to Tenth Precinct.
 Patrolman Martin J. F. Scurry, from Twentieth Precinct to Thirty-ninth Precinct.
 Patrolman Thomas Dolan, from Thirty-ninth Precinct to Twentieth Precinct, detailed in citizen's clothes.
 Patrolman James P. Kelly, from Tenth Precinct to Twentieth Precinct, detailed in citizen's clothes.
 Patrolman Henry H. Shill, from Thirty-seventh Precinct to Twelfth Precinct, detailed in citizen's clothes.
 Patrolman Edmund Kahler, from Thirty-seventh Precinct to Twelfth Precinct, detailed in citizen's clothes.
 Patrolman Chas. Baxter, from Twelfth Precinct to Seventeenth Precinct, detailed in citizen's clothes.
 Patrolman Thomas O'Neill, from Twelfth Precinct to Seventeenth Precinct, detailed in citizen's clothes.
 Patrolman Patrick Curran, from Twelfth Precinct to Seventeenth Precinct, detailed in citizen's clothes.
 Precinct Detective John Henderson, from Thirty-seventh Precinct to Twelfth Precinct.
 Precinct Detective Patrick Curry, from Thirty-seventh Precinct to Twelfth Precinct.
 Precinct Detective Thos. F. Walsh, from Twelfth Precinct to Seventeenth Precinct.
 Precinct Detective Geo. E. Craig, from Twelfth Precinct to Seventeenth Precinct.
 July 19, a. m.
 Roundsman Michael Madden, from Third Precinct to Eleventh Precinct.

Ordered, That the applications of the following-named Roundsmen, for promotion to the grade of Sergeant, be forwarded to the Municipal Civil Service Commission:

Apple, John, Thirty-seventh Precinct.
 Aiken, Samuel, Twenty-third Precinct.
 Agne, George, Fifty-fifth Precinct.
 Atwater, Alex. T., Sixty-ninth Precinct.
 Anthony, Charles, Sixty-fourth Precinct.
 Alcorn, Edward P., Fifteenth Precinct.
 Bourke, Edward J., Eighth Precinct.
 Benner, John M., Sixth Precinct.
 Boettler, William F., Thirty-sixth Precinct.
 Bailey, Wm. A., Eleventh Inspection District.
 Butler, William, Fifth Precinct.
 Bowe, John J., Thirty-sixth Precinct.
 Bolan, James S., Twentieth Precinct.
 Brown, Wm. L., Twenty-sixth Precinct.
 Brennan, Wm. F., Sixty-fifth Precinct.
 Burns, Wm. J., Sixth Precinct.
 Breen, John, Thirty-sixth Precinct.
 Breen, Michael, First Precinct.
 Brown, Edmund, Jr., Seventieth Precinct.
 Boyle, Philip F., Forty-eighth Precinct.
 Baker, Joseph, Forty-ninth Precinct.
 Bavendam, Henry, Fifty-third Precinct.
 Brady, James P., Eighty-second Precinct.
 Boyle, John H. Jr., Twenty-eighth Precinct.
 Burns, John H., Forty-sixth Precinct.
 Bedell, Robert J., Seventy-third Precinct.
 Bauer, William, Nineteenth Precinct.
 Bonner, George P., Detective Bureau, Brooklyn.
 Craig, Robert R., Tenth Precinct.
 Coen, Peter F., Forty-first Precinct.
 Cullen, Jas. J., House of Detention.
 Carey, John, Twentieth Precinct.
 Carey, John C., Seventy-second Precinct.
 Clark, Bernard T., Sixty-ninth Precinct.
 Curley, John J., Sixty-seventh Precinct.
 Conboy, Frank J., Tenth Inspection District.
 Charlton, George, Fifty-fifth Precinct.
 Casey, Eugene C., Thirtieth Precinct.
 Casey, Cornelius F., Twenty-ninth Precinct.
 Connors, Jas. F., Thirtieth Precinct.
 Cahill, John, Ninth Precinct.
 Cagney, David E., Seventy-sixth Precinct.
 Czerend, Thos. C., Sixty-fifth Precinct.
 Conlin, Martin F., Third Precinct.
 Donnelly, William, Thirtieth Precinct.
 Daly, Daniel, Nineteenth Precinct.
 Donegan, Michael T., Fifteenth Precinct.
 Devlin, James, Eightieth Precinct.
 Duffy, Richard G., Headquarters' Squad, Brooklyn.
 Dinan, Patrick J. J., Court Officer.
 Dwyer, Thos. F., Forty-ninth Precinct.
 Dennehy, Hugh, Seventy-first Precinct.
 Daly, Thomas J., Second Precinct.
 Dailey, Edward P., Fifty-ninth Precinct.
 Donohue, Thos. J., Second District Court.
 Dugan, William J., Seventy-second Precinct.
 Daly, William H., Fiftieth Precinct.
 David, Robert H., Seventy-eighth Precinct.
 Daniels, John C., Fifty-ninth Precinct.
 Donohue, George H., Twenty-seventh Precinct.
 Doran, William F., Sixty-fifth Precinct.
 Dooley, William J., Forty-fourth Precinct.
 Dugan, John, Eighty-first Precinct.
 Early, John, Forty-second Precinct.
 Ennis, William J., Sixteenth Precinct.
 Flushing, George J., Forty-third Precinct.
 Finley, John, Twenty-fifth Precinct.
 Ferdon, William M., Thirty-eighth Precinct.
 Fitzgerald, John J., Forty-sixth Precinct.
 Farrell, John J., Fourth Precinct.
 Fleming, James E., Central Office.
 Gilloon, Daniel M., Forty-second Precinct.
 Gillespie, David A., Twelfth Precinct.
 Gaughran, William F., Eighty-second Precinct.
 Gilmartin, Patrick E., Fortieth Precinct.
 Goodwin, John A., Fifty-fifth Precinct.
 Graham, Harry W., Nineteenth Precinct.
 Gorman, William J., Fifty-sixth Precinct.
 Garner, William, Thirty-eighth Precinct.
 Hertz, Nathan, Nineteenth Precinct.
 Hayes, Edward J., Forty-fifth Precinct.
 Hughes, John, Seventy-sixth Precinct.
 Haussler, Charles, Third District Court.
 Hauptman, Solomon C., Sixth Precinct.
 Hearn, James, Head of Department.
 Hackett, Patrick, Forty-eighth Precinct.
 Hatten, Henry V., Seventy-second Precinct.
 Halloran, John J., Fifty-fourth Precinct.
 Hunt, Patrick F., Ninth Precinct.
 Hefferon, John M., Twenty-seventh Precinct.
 Holahan, John C., Thirty-third Precinct.
 Hosey, Cornelius, Twenty-second Precinct.
 Hawkins, Henry L., Twenty-fourth Precinct.
 Halloran, Patrick, Sixtieth Precinct.
 Hawkins, David, Twenty-eighth Precinct.
 Hansbery, Richard J., Forty-fourth Precinct.
 Harris, Edward F., Seventy-fifth Precinct.
 Hoffman, Edward D., Twenty-ninth Precinct.
 Jedlicka, Frank, Fourteenth Precinct.
 Jackson, James M., Thirtieth Precinct.
 Jones, William A., Central Office.
 Klute, Nicholas, Forty-second Precinct.
 Kessler, John, Sixty-third Precinct.
 Kane, James H., Twenty-fourth Precinct.
 Kelly, Edward, Sixteenth Precinct.
 Kelly, Thomas, Seventh Precinct.
 Kessel, John, Sixty-second Precinct.
 Knox, George H., Sixty-seventh Precinct.
 Kiernan, John J., Fiftieth Precinct.

Kelyer, Henry C., Fifty-sixth Precinct.
 Kavanagh, Frederick M., Eleventh Precinct.
 Kelly, Michael R., Eighty-first Precinct.
 Keenan, Edward J., Forty-sixth Precinct.
 King, James H., Fifty-second Precinct.
 Kerr, Alexander, Seventy-ninth Precinct.
 Kenmore, John, Forty-second Precinct.
 Lussier, John J., Sanitary Company.
 Lehr, Herman, Thirty-first Precinct.
 Lynch, Patrick J., Eightieth Precinct.
 Londrigan, William, Eighth Precinct.
 Lynam, Michael J., Seventy-first Precinct.
 Lankford, Orville D., Fifty-second Precinct.
 Lane, Patrick B., Criminal Court Squad.
 Lasky, Max, Twenty-seventh Precinct.
 Leonard, William H., Twenty-eighth Precinct.
 Leary, John P., Seventy-ninth Precinct.
 Leary, Cornelius, Thirty-fifth Precinct.
 Masterson, William H., Forty-second Precinct.
 Meehan, Patrick A., Forty-second Precinct.
 Maglin, Jeremiah J., Thirty-sixth Precinct.
 Murphy, Jeremiah, Eighty-first Precinct.
 Masterson, James J., Fifty-fourth Precinct.
 Mulcahy, James P., Twenty-fourth Precinct.
 Mundy, Daniel S., Headquarters Squad.
 Murray, James A., Eighty-first Precinct.
 Martin, Charles, Sixty-ninth Precinct.
 Martin, William P., Forty-seventh Precinct.
 Mahoney, Denis J., Fifty-sixth Precinct.
 Madigan, Charles, Seventy-eighth Precinct.
 Myers, Thomas, Seventy-third Precinct.
 Monahan, James, Sixty-first Precinct.
 Mathews, William H., Sixty-first Precinct.
 Maas, Charles, Thirty-eighth Precinct.
 Maher, John L., Thirty-eighth Precinct.
 Madden, Michael, Third Precinct.
 Murphy, John, Forty-first Precinct.
 Mason, Edward G., Fifty-third Precinct.
 Moglan, Joseph, Fifty-eighth Precinct.
 Mason, Albert F., Thirtieth Precinct.
 Maley, Charles W., Fifty-third Precinct.
 Moehan, James P., Fifty-seventh Precinct.
 Mills, Robert E., Thirty-second Precinct.
 Murray, Henry T., Forty-second Precinct.
 McDonald, James, Central Office.
 McKeown, John J., Thirty-seventh Precinct.
 McCoy, Joseph P., Second Precinct.
 McLaughlin, John, Thirty-ninth Precinct.
 McGuire, Edward J., Twenty-first Precinct.
 McCann, James J., Thirty-first Precinct.
 McGinley, Patrick, Seventy-eighth Precinct.
 McGloin, William J., Thirty-first Precinct.
 McKern, Matthew, Thirty-second Precinct.
 McGonigal, John, Twenty-seventh Precinct.
 McNeeley, Peter F., Fifty-first Precinct.
 McFarland, Jonathan, Forty-third Precinct.
 McNamara, Joseph F., Forty-fifth Precinct.
 McMahon, William, Sixty-seventh Precinct.
 McGuire, Patrick, Seventeenth Precinct.
 McDonald, Edward, Forty-eighth Precinct.
 McCullagh, John, Twenty-sixth Precinct.
 McDevitt, William David, Sixty-third Precinct.
 McGarry, James, Sixtieth Precinct.
 McGrath, John A., Seventh Precinct.
 McNulty, John, Forty-fourth Precinct.
 McGowan, John J., Sixty-eighth Precinct.
 McGlynn, Edward J., Fifty-ninth Precinct.
 McCabe, Thomas, Twenty-second Precinct.
 McGuire, Thomas, Fourth Precinct.
 Nesbitt, William, Thirty-eighth Precinct.
 Northup, Charles E., Sixty-first Precinct.
 Nolan, Michael, Thirty-third Precinct.
 Nichols, Charles N., Sixty-second Precinct.
 O'Brien, Lawrence, Eighty-first Precinct.
 O'Connor, Thomas J., Seventy-ninth Precinct.
 O'Connell, Martin, Twenty-fifth Precinct.
 O'Neill, Patrick F., Fourteenth Precinct.
 O'Brien, John, Seventh District Court.
 O'Connell, Daniel, Fifty-eighth Precinct.
 O'Loughlin, Michael J., Fiftieth Precinct.
 O'Connor, Michael F., Sixty-fourth Precinct.
 O'Brien, John D., Forty-first Precinct.
 O'Brien, Thomas, Headquarters Squad B.
 Pearce, John L., Fortieth Precinct.
 Post, James H., Seventh Precinct.
 Priol, Peter A., Tenth Precinct.
 Paulding, Chas. G., Headquarters Squad.
 Panet, Anthony J., Seventy-sixth Precinct.
 Powers, Robert F., Sixth Precinct.
 Polley, John M., Twenty-ninth Precinct.
 Patterson, Lawrence E., Forty-fifth Precinct.
 Pugh, Charles J., Sixty-sixth Precinct.
 Peper, John, Thirty-eighth Precinct.
 Pyle, Robert J., Seventeenth Precinct.
 Quinn, Hugh J., Twenty-first Precinct.
 Quinn, Robert, Ninth Precinct.
 Robinson, George, Thirteenth Precinct.
 Rogers, Hugh, Forty-third Precinct.
 Rehahn, Gustave, Court Officer.
 Rohrig, Frank J., Twenty-fifth Precinct.
 Ryan, James L., Court Officer.
 Ryan, Patrick H., Twenty-third Precinct.
 Regan, Martin J., Seventeenth Precinct.
 Schmid, John C., Fifty-first Precinct.
 Smith, John P., Eightieth Precinct.
 Stephenson, Thomas, Tirty-ninth Precinct.
 Sullivan, William H., Court Officer.
 Sweeney, Michael P., Thirty-seventh Precinct.
 Shay, John, Eightieth Precinct.
 Shea, John E., Seventy-ninth Precinct.
 Schress, Charles J., Sixty-sixth Precinct.
 Sandlands, Richard Jas., Seventy-seventh Precinct.
 Shanahan, William, Eighth Precinct.
 Stevenson, John T., Thirty-second Precinct.
 Smullen, William F., Seventy-seventh Precinct.
 Shes, Michael J., Ninth Precinct.
 Snyder, Michael B., Seventy-sixth Precinct.
 Slott, Cornelius J., Twenty-sixth Precinct.
 Smith, John T., Sixty-second Precinct.
 Schryver, Henry B., Fifteenth Precinct.
 Schuessler, John, Forty-first Precinct.
 Smith, John T., Thirty-eighth Precinct.
 Smith, Martin A., Twenty-first Precinct.
 Sullivan, Michael J., Sixtieth Precinct.
 Sennett, James B., Nineteenth Precinct.
 Sherwood, Charles E., Second Precinct.

Smith, Frank A., Thirty-eighth Precinct.
 Tallman, John M., Sixty-third Precinct.
 Taggart, Archibald, First District Court.
 Tyler, John B., Seventh Precinct.
 Tabor, Harry J., Eightieth Precinct.
 Tubbs, Cornelius P., Ninth Precinct.
 Tomany, John, Forty-ninth Precinct.
 Vachris, Antonio F., Detective Bureau, Brooklyn.
 Walsh, Patrick J., Eighteenth Precinct.
 Weise, Herman, Thirty-fourth Precinct.
 Wilson, George H., Eightieth Precinct.
 Wuerz, Herman, Seventy-sixth Precinct.
 Wood, John J., Eighty-second Precinct.
 Wood, George S., Twenty-seventh Precinct.
 Webster, Frank A., Seventy-fourth Precinct.
 Wilbur, William H., First Precinct.
 Wall, James J., Thirty-third Precinct.
 Wagner, Louis C., Twenty-eighth Precinct.
 White, Henry P., Thirty-second Precinct.
 Wilson, John A., Forty-seventh Precinct.
 Ward, John J., Eighteenth Precinct.
 Yost, John, Forty-ninth Precinct.
 Young, Horatio, Eightieth Precinct.

Referred to Comptroller.

Payroll account of advancement to grade, Frederick Degenhardt, \$48.04.

Payrolls account of advancement to grade, Glenn C. Armin and thirty-eight others, \$146.51.

Referred to Bookkeeper.

Payroll, Charles A. Elsborg and Frank R. Oaster, Police Surgeons, reimbursement for money paid to Pension Fund while on probation, \$7.74.

Retired on Surgeons' Certificates.

Patrolman Theodore Beesley, Thirty-second Precinct, \$700 co. Patrolman Joseph Cumiskey, Fourth District Court, \$700 co. Patrolman Joseph Winsler, Seventh Precinct, \$500 co.

Ordered, That the following named officers heretofore selected and appointed to perform duty as Detective Sergeants be and are hereby reduced to the grade of Patrolmen, and assigned to perform duty as such: John J. Burke, Charles R. Aikman, W. P. Judge, Thomas F. Kane and Jacob H. Van Wagner.

By order of the Commissioner.

WM. H. KIPP, Chief Clerk.

DEPARTMENT OF FINANCE.

DEPARTMENT OF FINANCE—CITY CHAMBERLAIN'S OFFICE, August 2, 1902.

The regular quarterly meeting of officers to designate City Depositories, in accordance with section 196, Chapter 466, of the Laws of 1901, was held in the Mayor's Office on Friday, August 1, at 12 noon.

Present—Mayor Seth Low, Deputy and Acting Comptroller J. W. Stevenson, Chamberlain Elgin R. L. Gould.

The minutes of previous meeting were approved as read.

On motion of the Mayor, the following banks and trust companies were redesignated as City Depositories:

BANKS—BOROUGH OF MANHATTAN.

Astor Place Bank.	Marker and Fulton National Bank.
Bank of America.	Mechanics' National Bank.
Bank of the Manhattan Co.	Mechanics and Traders' Bank.
Bank of New York.	Mercantile National Bank.
Bank of Washington Heights.	Merchants' National Bank.
Bowery Bank.	Merchants' Exchange National Bank.
Central National Bank.	Mount Morris Bank.
Century Bank.	National Bank of Commerce.
Chase National Bank.	National Bank of North America.
Chatham National Bank.	National Bank of the United States.
Colonial Bank.	National Broadway Bank.
Columbia Bank.	National Citizens' Bank.
Corn Exchange Bank.	National City Bank.
Corn Exchange Bank (Forty-second Street Branch).	National Park Bank.
East River National Bank.	National Shoe and Leather Bank.
Eleventh Ward Bank.	New Amsterdam National Bank.
Equitable National Bank.	New York County National Bank.
Fidelity Bank.	New York National Exchange Bank.
Fifth National Bank.	New York Produce Exchange Bank.
First National Bank.	New York Produce Exchange Bank (Ninety-third Street Branch).
Fourth National Bank.	Nineteenth Ward Bank.
Fourteenth Street Bank.	Oriental Bank.
Gallatin National Bank.	Phoenix National Bank.
Gansevoort Bank.	Plaza Bank.
Garfield National Bank.	Seaboard National Bank.
German-American Bank.	Second National Bank.
Germania Bank.	Seventh National Bank.
Greenwich Bank.	Twelfth Ward Bank.
Hanover National Bank.	Union National Bank.
Importers and Traders' National Bank.	Washington Bank.
Irving National Bank.	Western National Bank.
Liberty National Bank.	West Side Bank.
Lincoln National Bank.	Yorkville Bank.

TRUST COMPANIES.

Atlantic Trust Company.	Manhattan Trust Company.
Bowling Green Trust Company.	Mercantile Trust Company.
Broadway Trust Company.	Merchants' Trust Company.
Central Trust Company.	Metropolitan Trust Company.
Central Realty, Bond and Trust Company.	Morton Trust Company.
City Trust Company.	New York Security and Trust Company.
Colonial Trust Company.	North American Trust Company.
Continental Trust Company.	Real Estate Trust Company.
Eastern Trust Company.	Standard Trust Company.
Empire State Trust Company.	Trust Company of America.
Farmers' Loan and Trust Company.	Trust Company of the Republic.
Fifth Avenue Trust Company.	U. S. Mortgage and Trust Company.
Guaranty Trust Company of New York.	Van Norden Trust Company.
Guardian Trust Company.	Washington Trust Company.
Knickbocker Trust Company.	

BANKS—BOROUGH OF BROOKLYN.

Bedford Bank.	Merchants' Bank.
Broadway Bank.	Nassau National Bank.
Brooklyn Bank.	National City Bank.
Coney Island and Bath Beach Bank.	North Side Bank.
Eighth Ward Bank.	People's Bank.
First National Bank.	Seventeenth Ward Bank.
Fifth Avenue Bank.	Sprague National Bank.
Manufacturers' National Bank.	Twenty-sixth Ward Bank.
Mechanics' Bank.	Union Bank.
Mechanics and Traders' Bank.	Wallabout Bank.

TRUST COMPANIES.

Brooklyn Trust Company.	Long Island Loan and Trust Company.
Flatbush Trust Company.	Manufacturers' Trust Company.
Franklin Trust Company.	Nassau Trust Company.
Hamilton Trust Company.	The People's Trust Company.
Kings County Trust Company.	Williamsburgh Trust Company.

BANKS—BOROUGH OF QUEENS.

Bank of Jamaica.
Corn Exchange Bank (Astoria Branch).
Far Rockaway Bank.

Flushing Bank.
Queens County Bank.
Woodhaven Bank.

BANKS—BOROUGH OF RICHMOND.

Bank of Staten Island.

First National Bank, Staten Island.

BANKS—BOROUGH OF BRONX.

Twenty-third Ward Bank.

Bronx Borough Bank.

The Chamberlain informed the Commission he had been notified that the Empire State Trust Company had succeeded to the business of the Empire State Bank.

On motion of the Chamberlain, the following banks and trust companies were added to the list:

National Bank of the United States.
The Merchants' National Bank.
The Equitable National Bank.
The Colonial Bank.
Astor Place Bank.
Corn Exchange Bank (Astoria Branch).
Corn Exchange Bank (Forty-second Street Branch).

New York Produce Exchange Bank (Ninety-third Street Branch).
The Woodhaven Bank.
Coney Island and Bath Beach Bank.
Broadway Trust Company.
Eastern Trust Company.
Guardian Trust Company.

On motion of the Chamberlain, the rate of interest on daily balances of City deposits was fixed at 2 per cent. per annum.

On motion, the meeting adjourned.

PETER W. MAGUIRE, Secretary pro tem.

EXECUTIVE DEPARTMENT.

CITY OF NEW YORK, OFFICE OF THE MAYOR.

Pursuant to the authority vested in me by law, I, Seth Low, Mayor of The City of New York, do hereby call a special meeting of the Board of Aldermen of The City of New York, to be held in the Chamber of the Board of Aldermen in the City Hall, in the Borough of Manhattan, in The City of New York, on Tuesday, August 12, 1902, at noon, for the purpose of receiving and acting upon a report of the Finance Committee of the Board of Aldermen in relation to the tax and assessment rolls of real and personal estate in The City of New York for the year 1902, delivered to the Board of Aldermen by the Commissioners of Taxes and Assessments, and for the further purpose of preparing and adopting an ordinance regulating the levying and collection of taxes on real and personal estate in The City of New York for the year 1902, and for the performance of all other duties prescribed by law in relation to the City tax and assessment rolls, including the levying and collection of taxes and assessments therefrom.

In witness whereof I have hereunto set my hand and affixed my seal of office this 4th day of August, A. D. 1902.

[Seal.]

SETH LOW, Mayor.

305-12

CHANGES IN DEPARTMENTS.

DEPARTMENT OF BRIDGES.

August 1.
William Repper, of Maspeth, L. I., who was certified by the Municipal Civil Service Commission on the 20th inst. for appointment as Bridge Tender, has been appointed Bridge Tender in the Borough of Queens, at a salary of \$766.50 a year, to date from Monday, August 4, 1902, in place of George Mager, resigned, and has been assigned to duty on the Flushing bridge.

August 4.
James Rice, City Island, Bronx, a laborer in this Department, Borough of The Bronx, has been promoted to the position of Bridge Tender on bridge over the Mott Haven canal, at One Hundred and Thirty-fifth street, at \$730 per annum, to date from August 4, 1902.

DEPARTMENT OF TAXES AND ASSESSMENTS.

August 1.
Appointed—Michael F. Dugan, No. 42 North Washington place, Long Island City, Deputy Tax Commissioner, salary \$1,800, to take effect August 1, 1902.
Resigned—William Selmer, Draughtsman, salary \$1,350; resigned July 21, 1902.

TENEMENT HOUSE DEPARTMENT.

August 1.
Eugene J. Murphy, No. 201 Forty-seventh street, Brooklyn, N. Y., Inspector of Tenements, salary \$1,200 per annum, removed July 31, 1902.

Appointments to the service of the Tenement House Department:

Inspectors of Tenements; salary \$1,200 per annum—Eugene H. Howard, No. 31 Bowery; John Downey, No. 555 Third avenue; Henry A. Tierney, No. 407 West Fifty-first street; Joseph H. O'Connor, No. 152 East Twenty-seventh street. The above appointments to take effect August 1, 1902.

Gerald McMurray, Villa avenue, Bedford Park. This appointment to take effect August 2, 1902.

CITY CHAMBERLAIN.

The City Chamberlain has turned into the City Treasury, under provisions of chapter 466, Laws of 1901, and Chapter 6 thereof, title 4, sections 196 and 198, the sum of seventeen hundred and seventy-three and 6/100 dollars (\$1,773.60), being amount of commissions on court and trust funds due from his office for the month of July, 1902.



OFFICIAL DIRECTORY.

CITY OFFICERS.

STATEMENT OF THE HOURS DURING which the Public Offices in the City are open for business, and at which the Courts regularly open and adjourn, as well as of the places where such offices are kept and such Courts are held, together with the heads of Departments and Courts:

EXECUTIVE DEPARTMENT.

Mayor's Office.

No. 5 City Hall, 9 A. M. to 4 P. M.; Saturdays 9 A. M. to 12 M.
Telephone 1929 Cortlandt.
SETH LOW, Mayor.
JAMES B. REYNOLDS, Secretary.
WILLIAM J. MORAN, Assistant Secretary.
JOHN GREENBERG, Chief Clerk.

Bureau of Licenses.

9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.
Telephone, 706 Cortlandt.

GEORGE WHITEFIELD BROWN, Jr., Chief of Bureau.
Principal Office, Room 1, City Hall.

OSWALD CAREY, Deputy Chief, Boroughs of Manhattan and The Bronx.
Branch Office, Room 12, Borough Hall, Brooklyn; JOSEPH MCGUINNNESS, Deputy Chief, Borough of Brooklyn.
Branch Office, "Richmond Building," New Brighton; S. I.; WILLIAM R. WOELFER, Financial Clerk, Borough of Richmond.
Branch Office, "Hackett Building," Long Island City; CHARLES H. SMITH, Financial Clerk, Borough of Queens.

THE CITY RECORD OFFICE, and Bureau of Printing, Stationery and Blank Books.

No. 2 City Hall, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.

Telephone 467 Cortlandt.
PHILIP COWEN, Supervisor; HENRY McMIN, Deputy Supervisor; THOMAS C. COWELL, Deputy and Accountant.

CITY CLERK AND CLERK OF THE BOARD OF ALDERMEN.

City Hall, Rooms 11-12, 10 A. M. to 4 P. M.; Saturdays, 10 A. M. to 12 M.
Telephone 3365 Cortlandt.
P. J. SCULLY, City Clerk and Clerk of the Board of Aldermen.
NICHOLAS J. HAYES, First Deputy City Clerk.
MICHAEL F. BLAKE, Chief Clerk of the Board of Aldermen.

JOSEPH V. SCULLY, Deputy City Clerk, Borough of Brooklyn.
THOMAS J. MCCABE, Deputy City Clerk, Borough of The Bronx.
WILLIAM R. ZIMMERMAN, Deputy City Clerk, Borough of Queens.
MICHAEL J. COLLINS, Deputy City Clerk, Borough of Richmond.

BOARD OF ALDERMEN.

No. 11 City Hall, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.
Telephone 40 Cortlandt.
CHARLES V. FORNES, President.
P. J. SCULLY, City Clerk.

DEPARTMENT OF FINANCE.

Stewart Building, Chambers street and Broadway, 9 A. M. to 5 P. M.; Saturdays, 9 A. M. to 12 noon.

EDWARD M. GROUT, Comptroller.
N. TAYLOR PHILLIPS and JAMES W. STEVENSON, Deputy Comptrollers.
HUBERT L. SMITH, Assistant Deputy Comptroller.
OLIVER E. STANTON, Secretary to Comptroller.

Main Division.

H. J. STORRE, Chief Clerk, Room 11.

Bookkeeping and Awards Division.

JOSEPH HAAG, Chief Bookkeeper, Room 2.

Stock and Bond Division.

JAMES J. SULLIVAN, Chief Stock and Bond Clerk, Room 39.

Bureau of Audit—Main Division.

WILLIAM MCKINNEY, Chief Auditor of Accounts, Room 27.

Adjustment Division.

WILLIAM J. LYON, Auditor of Accounts, Room 183.

Investigating Division.

CHARLES S. HERVEY, Expert Accountant, Room 173.

Charitable Institutions Division.

DANIEL C. POTTER, Chief Examiner of Accounts of Institutions, Room 40.

Bureau of the City Paymaster.

No. 83 Chambers street and No. 65 Reade street.
JOHN H. TIMMERMAN, City Paymaster.

Bureau of Engineering.

Stewart Building, Chambers street and Broadway.

EDGEMORE E. McLEAH, Chief Engineer, Room 55.

Bureau for the Collection of Taxes.

Borough of Manhattan—Stewart Building, Room 9.

DAVID E. AUSTEN, Receiver of Taxes.
JOHN J. McDONOUGH, Deputy Receiver of Taxes.

Borough of The Bronx—Municipal Building, Third and Tremont avenues.
JOHN B. UNDERHILL, Deputy Receiver of Taxes.

Borough of Brooklyn—Municipal Building, Rooms 2-8.
JACOB S. VAN WYCK, Deputy Receiver of Taxes.

Borough of Queens—Hackett Building, Jackson avenue and Fifth street, Long Island City.
FREDERICK W. BLACKWELL, Deputy Receiver of Taxes.

Borough of Richmond—Richmond Building, New Brighton.
JOHN DEMORGAN, Deputy Receiver of Taxes.

Bureau for the Collection of Assessments and Arrears.

Borough of Manhattan—Stewart Building, Room 81.

WILLIAM E. McFADDEN, Collector of Assessments and Arrears.
EDWARD A. SLATTERY, Deputy Collector of Assessments and Arrears.

Borough of The Bronx—Municipal Building, Rooms 1-3.
JAMES J. DONOVAN, Jr., Deputy Collector of Assessments and Arrears.

Borough of Brooklyn—Municipal Building, Henry Newman, Deputy Collector of Assessments and Arrears.

Borough of Queens—Hackett Building, Jackson avenue and Fifth street, Long Island City.
PATRICK E. LEAHY, Deputy Collector of Assessments and Arrears.

Borough of Richmond—No. 373 Richmond terrace, New Brighton.
GEORGE BRAND, Deputy Collector of Assessments and Arrears.

Bureau for the Collection of City Revenue and of Markets.

Stewart Building, Chambers street and Broadway, Room 139.

WILLIAM T. GOUNDER, Collector of City Revenue and Superintendent of Markets.
JAMES H. BALDWIN, Deputy Collector of City Revenue.

DAVID O'BRIEN, Deputy Superintendent of Markets.

Bureau of Municipal Accounts and Statistics.

Stewart Building, Chambers street and Broadway.

JOHN R. SPARKOW, Supervising Accountant and Statistician, Room 173.

Bureau of the City Chamberlain.

Stewart Building, Chambers street and Broadway, Rooms 53 to 67; and Kings County Court house, Room 14, Borough of Brooklyn.

ELGIN R. L. GOULD, City Chamberlain.

JOHN H. CAMPBELL, Deputy Chamberlain.

LAW DEPARTMENT.

Office of Corporation Counsel.

Strass-Zeitung Building, 2d, 3d and 4th floors, 9 A. M. to 5 P. M.; Saturdays, 9 A. M. to 12 M.
Telephone 5366 Cortlandt.

GEORGE L. RIVES, Corporation Counsel.
FRANK N. APPELGATE, Secretary.

THORODOR CONWOLLY, CHARLES D. OLENDORF, GEORGE L. STEELING, EDWARD J. MCGUIRE, JAMES M. WARD, GEORGE S. COLEMAN, CHARLES N. HARRIS, JOHN C. CLARK, CHARLES S. WHITMAN, CHASE MELLER, JOHN CASSAN WAIT, EDWIN J. FREEDMAN, JOHN W. HUTCHINSON, JR., OLIVER C. SEMPLE, TERENCE FARLEY, JAMES T. MALONE, CHARLES A. O'NEIL, GEORGE LONDON, ARTHUR SWERNY, HAROLD S. KANINE, DAVID RUMSEY, WILLIAM REES CROWLEY, JOHN L. O'BRIEN, ANDREW T. CAMPBELL, JR., Assistants.

JAMES MCKEN, Assistant, in charge of Brooklyn branch office.

GEORGE E. BLACKWELL, Assistant, in charge of Queens branch office.

DOUGLAS MATTHEWSON, Assistant, in charge of Bronx branch office.

ALBERT E. HADLOCK, Assistant, in charge of Richmond branch office.

ANDREW T. CAMPBELL, Chief Clerk.

Tenement House Bureau and Building Bureau.
No. 320 Fourth avenue. Office hours, 9 A. M. to 5 P. M.; Saturdays, 9 A. M. to noon.

MATTHEW C. FLEMING, Assistant, in charge.

Bureau for Collection Arrears of Personal Taxes.

No. 280 Broadway (Stewart Building). Office hours for the public, 10 A. M. to 3 P. M.; Saturdays, 10 A. M. to 12 M.

MARTIN SAGE, Assistant, in charge.

Bureau for the Recovery of Penalties.
Nos. 310 and 121 Nassau street, 9 A. M. to 5 P. M.; Saturdays, 9 A. M. to 12 M.
ARTHUR F. COSEY, Assistant, in charge.

Bureau of Street Openings.
Nos. 90 and 92 West Broadway, 9 A. M. to 5 P. M.; Saturdays, 9 A. M. to 12 M.
JOHN P. DURN, Assistant, in charge.

COMMISSIONERS OF ACCOUNTS.
Rooms 114 and 115, Stewart Building, 9 A. M. to 4 P. M. Telephone 4315 Franklin.
WILLIAM HEPBURN RUSSELL and EDWARD OWEN, Commissioners.

COMMISSIONERS OF SINKING FUND.
SETH LOW, Mayor, Chairman; EDWARD M. GROUT, Comptroller; ELGIN R. L. GOULD, Chamberlain; CHARLES V. FORNES, President of the Board of Aldermen, and HENRIETTA PARSONS, Chairman Finance Committee, Board of Aldermen. Members: N. TAYLOR PHILLIPS, Deputy Comptroller, Secretary.
Office of Secretary, Room No. 12, Stewart Building.

BOARD OF ESTIMATE AND APPORTIONMENT.

Telephone, Finance Department, 2115.
Telephone, Public Improvements, 4594 Cortlandt.

The Mayor, Chairman; The Comptroller, President of the Board of Aldermen, President of the Borough of Manhattan, President of the Borough of Brooklyn, President of the Borough of Queens, President of the Borough of Richmond.

JAMES W. STEVENSON, Deputy Comptroller, Secretary, Finance Department, No. 280 Broadway.

JOHN H. MOONEY, Assistant Secretary, Public Improvements, City Hall.

CHARLES V. ADEE, Clerk to the Board, Finance Department, No. 280 Broadway.

AQUEDUCT COMMISSIONERS.

Room 207, Stewart Building, 5th floor, 9 A. M. to 4 P. M. Telephone 1042 Franklin.

The Mayor, the Comptroller, ex officio; Commissioners, WILLIAM H. TEN EYCK (President), JOHN J. RYAN, MAURICE J. POWERS and JOHN F. WINDOLPH, HARVEY W. WALKER, Secretary; WILLIAM R. HILL, Chief Engineer.

BOARD OF ARMY COMMISSIONERS.

The Mayor, SETH LOW, Chairman; The President of the Department of Taxes and Assessments, JAMES L. WELLS, Vice-Chairman; The President of the Board of Aldermen, CHARLES V. FORNES; Brigadier-General JAMES McLEAH and Brigadier-General GEORGE MOORE SMITH, Commissioners.

JOHN P. GUSTAVSON, Secretary, Stewart Building, No. 280 Broadway.

Office hours, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.

POLICE DEPARTMENT.

Central Office.

No. 300 Mulberry street, 9 A. M. to 4 P. M. Telephone 3100 Spring.

JOHN N. CARTRIDGE, Commissioner.

NATHANIEL B. THURSTON, First Deputy Commissioner.

FREDERICK H. E. EBSTEIN, Second Deputy Commissioner.

J. J. CORNHILL, Secretary to the Police Commissioner.

BOARD OF ELECTIONS.

Commissioners—JOHN R. VOORHIS (President), CHARLES B. PAUL (Secretary), JOHN MAGUIRE, MICHAEL J. BABY.

Headquarters, General Office, No. 301 Mott street.

A. C. ALLEN, Chief Clerk of the Board.

Office, Borough of Manhattan, No. 301 Mott street.

WILLIAM C. BAXTER, Chief Clerk.

Office, Borough of The Bronx, One Hundred and Thirty-eighth street and Mott avenue (Solingen Building).

CORNELIUS A. BUNNIE, Chief Clerk.

Office, Borough of Brooklyn, No. 42 Court street.

GEORGE RUSSELL, Chief Clerk.

Office, Borough of Queens, No. 51 Jackson avenue, Long Island City.

CARL VOGEL, Chief Clerk.

Office, Borough of Richmond, Staten Island Savings Building, Stapleton, S. I.

ALEXANDER M. ROSS, Chief Clerk.

All offices open from 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.

DEPARTMENT OF BRIDGES.

Nos. 13 to 21 Park Row, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 1 P. M. Telephone 6080 Cortlandt, Manhattan; 2205 Main, Brooklyn; 79 Tremont, The Bronx; 413 Greenpoint, Queens.

GUSTAV LINDENSTRAHL, Commissioner.

NELSON L. ROBINSON, Deputy.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

Telephones: Manhattan, 256 Cortlandt; Brooklyn, 3084 Main; Queens, 430 Greenpoint; Richmond, 39 Tompkinsville; Bronx, 62 Tremont.

ROBERT GRIS MONROE, Commissioner.

WILLIAM A. DE LONG, Deputy Commissioner.

GEORGE W. BROSALL, Chief Engineer.

ROBERT A. KELLY, Water Registrar.

EDWARD S. BROWNSON, Jr., Secretary to the Department.

ROBERT VAN DERSTINE, Deputy Commissioner, Borough of Brooklyn, Municipal Building, Brooklyn.

JOHN QUINN, Deputy Commissioner, Borough of The Bronx, Crotona Park Building, One Hundred and Seventy-seventh street and Third avenue.

GUSTAVE A. ROULLIER, Deputy Commissioner, Borough of Queens, Long Island City.

GEORGE S. SCOFIELD, Deputy Commissioner, Borough of Richmond, New Brighton, S. I.

FIRE DEPARTMENT.

Office hours for all, except where otherwise noted, from 9 A. M. to 5 P. M.; Saturdays, 12 M.

Headquarters.

Nos. 157 and 159 East Sixty-seventh street. Telephone 868. Seventy-ninth street, Manhattan; 636 Main, Brooklyn.

THOMAS STURGIS, Fire Commissioner.

RICHARD H. LAIBERER, Jr., Deputy Commissioner, Boroughs of Brooklyn and Queens.

WILLIAM LEAHY, Secretary.

EDWARD F. CROKER, Chief of Department and in charge of Fire-alarm Telegraph.

JAMES DALE, Deputy Chief, in charge of Boroughs of Brooklyn and Queens.

GEORGE E. MURRAY, Inspector of Combustibles.

THOMAS F. FREER, Fire Marshal, Boroughs of Manhattan, The Bronx and Richmond.

ALONZO BAYNES, Fire Marshal, Boroughs of Brooklyn and Queens.

Central Office open at all hours.

Committee to examine persons who handle explosives meets Thursday of each week, at 2 o'clock P. M.

MUNICIPAL EXPLOSIVES COMMISSION.
Nos. 127 and 129 East Fifty-seventh street, Headquarters Fire Department.
Fire Commissioner THOMAS STURGIS, Chairman; WILLIAM J. CHASE, Esq.; Gen. GEORGE O. EATON, J. AMORY HASKELL, Esq.; Dr. CHARLES F. MCKENNA, JOHN F. CUNNINGHAM, Secretary.
Office hours, 9 A. M. to 5 P. M.; Saturdays, 9 A. M. to 12 M.

DEPARTMENT OF STREET CLEANING.
Nos. 13 to 21 Park Row, 9 A. M. to 4 P. M. Telephone 3863 Cortlandt.
JOHN MCGAW WOODBURY, Commissioner.
F. M. GIBSON, Deputy Commissioner.
JOHN J. O'BRIEN, Chief Clerk.

DEPARTMENT OF CORRECTION.
Central Office.
No. 148 East Twentieth street. Office hours from 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.
Telephone 1247 Eighteenth.
THOMAS W. HYMES, Commissioner.
A. C. MACNULTY, Deputy Commissioner.

DEPARTMENT OF PUBLIC CHARITIES.
Central Office.
Foot of East Twenty-sixth street, 9 A. M. to 4 P. M.
Telephone 603 Madison Square.
HOMER FOLKS, Commissioner for Manhattan and Bronx.
JAMES F. DOUGHERTY, First Deputy Commissioner.
CHARLES E. TRALE, Second Deputy Commissioner, for Brooklyn and Queens, Nos. 126 and 128 Livingston street, Brooklyn.

Plans and Specifications, Contracts, Proposals and Estimates for Work and Materials for Building, Repairs and Supplies, Bills and Accounts, 9 A. M. to 4 P. M.; Saturdays, 12 M. to 3 P. M.
Outdoor Poor Department. Office hours, 8.30 A. M. to 4.30 P. M.
Department for Care of Destitute Children. No. 66 Third avenue, 8.30 A. M. to 4.30 P. M.

BELLEVUE AND ALLIED HOSPITALS.
Telephone 2730 Madison Square.
Board of Trustees—Dr. JOHN W. BRANNAN, THOROUGH E. TACE, MARGUET STINE, JAMES K. PAULING, SAMUEL SACHS, MILLER TIERNEY, HOWARD TOWNSEND.

TENEMENT-HOUSE DEPARTMENT.
Manhattan Office, No. 51 Irving place, south west corner Eighteenth street.
Telephone 5331 Eighteenth.
Brooklyn Office, Temple Bar Building, No. 44 Court street.
Bronx Office, to be established.
ROBERT W. DE FOREST, Commissioner.
LAWRENCE VILLER, First Deputy Tenement House Commissioner.
WESLEY C. BURN, Second Deputy Tenement House Commissioner.

DEPARTMENT OF DOCKS AND FERRIES.
Pier "A," N. R., Battery place.
Telephone 1683 Broad.
McDONOUGH HAWKES, Commissioner.
JACKSON WALLACE, Deputy Commissioner.
RUBEN BLUCKER, Secretary.
Office hours, 9 A. M. to 4 P. M.; Saturdays, 12 M.

DEPARTMENT OF HEALTH.
Southwest corner of Fifty-fifth street and Sixth avenue, Borough of Manhattan, 9 A. M. to 4 P. M. Burial Permit and Contagious Disease Offices always open.
FRANK J. LEBERLE, Commissioner of Health and President.
Telephone 1204 Columbus.
CASPAR GOLDENBERG, Secretary.
CHARLES F. ROBERTS, M. D., Sanitary Superintendent.

WILLIAM H. GUILFOY, M. D., Registrar of Records.
FREDERICK H. DILLINGHAM, M. D., Assistant Sanitary Superintendent, Borough of Manhattan.
EDWARD F. HORD, M. D., Assistant Sanitary Superintendent, Borough of the Bronx, No. 1237 Franklin avenue.
JOSEPH H. RAYMOND, M. D., Assistant Sanitary Superintendent, Borough of Brooklyn, Nos. 38 and 40 Clinton street.
SAMUEL HENDRICKSON, M. D., Assistant Sanitary Superintendent, Borough of Queens, Nos. 372 and 374 Fulton street, Jamaica.

JOHN T. SPRAGUE, M. D., Assistant Sanitary Superintendent, Borough of Richmond, York avenue and Richmond Terrace, New Brighton, Staten Island.
DEPARTMENT OF PARKS.
WILLIAM R. WILLCOX, Commissioner of Parks for the Boroughs of Manhattan and Richmond and President of the Park board.
GEORGE S. TERRY, Secretary, Park Board.
Offices, Arsenal, Central Park.
RICHARD YOUNG, Commissioner of Parks for the Boroughs of Brooklyn and Queens.
Offices, Litchfield Mansion, Prospect Park, Brooklyn.
JOHN E. EASTON, Commissioner of Parks for the Borough of the Bronx.
Offices, Zbrowski Mansion, Claremont Park.
Office hours, 9 A. M. to 4 P. M.; Saturdays, 12 M.

DEPARTMENT OF TAXES AND ASSESSMENTS.
Stewart Building, No. 280 Broadway. Office hours, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.
JAMES L. WELLS, President; WILLIAM S. COGSWELL, GEORGE J. GILLESPIE, SAMUEL STRAUSS, RUFUS L. SCOTT, Commissioners.
MUNICIPAL CIVIL SERVICE COMMISSION.
No. 346 Broadway, 9 A. M. to 4 P. M.
WILLIS L. OGDEN, ALEXANDER T. MASON, CORNELIUS VAN DERBILT, WILLIAM A. PERKINS, WILLIAM N. DYKMAN, THOROUGH E. TACE and NELSON S. SPENCER, Commissioners.
S. WILLIAM BAIRD, Secretary.

BOARD OF ASSESSORS.
Office, No. 320 Broadway, 9 A. M. to 4 P. M.; Saturdays, 12 M.
BENJAMIN E. HALL, President; HENRY B. KETCHAM and ENOCH VERELAND, Board of Assessors. WILLIAM H. JAMES, Secretary.

DEPARTMENT OF EDUCATION.
Board of Education.
Park avenue and Fifty-ninth street, Borough of Manhattan, 9 A. M. to 5 P. M.; Saturdays, 9 A. M. to 12 M.
CHARLES C. BURLINGHAM, President; FRANK L. BARRETT, Vice-President; A. EMERSON PALMER, Secretary.

WILLIAM H. MAXWELL, City Superintendent of Schools.
C. B. J. SMYTH, Superintendent of School Buildings.
PARKER P. SIMMONS, Superintendent of School Supplies.
HENRY R. M. COOK, Auditor.
HENRY M. LEINIGER, Supervisor of Lectures.

ART COMMISSION.
City Hall, Room 31.
Telephone Call, 1797 Cortlandt.
JOHN DEWITT WARRER, President; FREDERICK

DICKMAN, Painter, Vice-President; A. AUGUSTUS HEALY, President of Brooklyn Institute of Arts and Sciences, Secretary; SEYMOUR LOW, Mayor of the City of New York; FREDERICK W. RHINELANDER, President of Metropolitan Museum of Art; JOHN BIGELOW, President of New York Public Library; DANIEL C. FRECHER, Sculptor; HENRY RUTGERS MARSHALL, Architect; SAMUEL P. AVERY; WILLIAM J. COOPER.
MILF R. MALLORY, Assistant Secretary.
PHYLLIS L. MCCORMACK, Clerk.

CHANGE OF GRADE DAMAGE COMMISSION.
Room 3, Stewart Building, No. 280 Broadway. Meetings, Tuesdays and Thursdays at 2 P. M.
WILLIAM D. LEONARD, JAMES K. BURNETT, JOHN S. WISE, Jr., Commissioners.
LAMONT MCGOUGHIN, Clerk.

THE BOARD OF EXAMINERS OF THE CITY OF NEW YORK.
Rooms Nos. 316 and 317, No. 1 Madison avenue.
9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.
A. F. D'ONCH, Chairman; FRANCIS C. MOORE, CORNELIUS O'REILLY, WILLIAM C. SMITH, WARREN A. CONOVER, WILLIAM J. FEYER, EDWARD P. COOPER.
JAMES GATNEY, Clerk.

EXAMINING BOARD OF PLUMBERS.
President, WILLIAM MONTGOMERY; Secretary, DAVID JONES; Treasurer, EDWARD MACDONALD; ex officio, HORACE LOOMIS and P. J. ANDREWS.
Rooms 14, 15 and 16 Aldrich Building, Nos. 149 and 151 Church street.
Office open during business hours every day in the year, except legal holidays. Examinations are held on Monday, Wednesday and Friday after 1 P. M.

BOROUGH OFFICES.
Borough of Manhattan.
Office of the President, Nos. 10, 11 and 12, City Hall, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.
JACOB A. CANTON, President.
GEORGE W. BLAKE, Secretary.
PEREZ M. STEWART, Superintendent of Buildings.
GEORGE LIVINGSTON, Commissioner of Public Works.
FRITZ GUENTHER, Assistant Commissioner of Public Works.
WILLIAM H. WALKER, Superintendent of Public Buildings and Offices.
WILLIAM H. MICHAELS, Superintendent of Sewers.
JOHN L. JORDAN, Assistant Superintendent of Buildings.
JAMES G. COLLINS, Superintendent of Highways.
WILLIAM MARTIN ATKEN, Consulting Architect for the Borough of Manhattan.

Borough of The Bronx.
Office of the President, corner Third avenue and One Hundred and Seventy-seventh street, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.
LOUIS P. HAYEN, President.
HENRY A. GUMBLETON, Secretary.
MICHAEL J. GARTIN, Superintendent of Buildings.
HENRY BEUCKER, Commissioner of Public Works.

Borough of Brooklyn.
President's Office, No. 11, Borough Hall, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.
J. EDWARD SWANSTROM, President.
JURIN MCCARTHY, Jr., Secretary.
WILLIAM C. REDFIELD, Commissioner of Public Works.
WILLIAM M. CALDER, Superintendent of Buildings.
GEORGE W. TILSON, Engineer in Charge, Bureau of Highways.
JOHN TRATCHER, Superintendent of the Bureau of Sewers.
FRANK J. HELMLE, Superintendent of the Bureau of Public Buildings and Offices.
PETER ATKEN, Supervisor of Complaints.
HENRY A. GOULDEN, Superintendent of Incumbents.

Borough of Queens.
President's Office, Borough Hall, Jackson avenue and Fifth street, Long Island City.
JOSEPH CASINOV, President.
GEORGE S. JEVVIS, Secretary to the President.
JOSEPH BERKEL, Commissioner of Public Works.
SAMUEL GREENSON, Superintendent of Highways.
Office, Hackett Building, Long Island City.
JOSEPH P. POWERS, Superintendent of Buildings.
PHILIP T. CROHN, Superintendent of Public Buildings and Offices.
MATTHEW J. GOLDBER, Superintendent of Sewers.
Office, Long Island City, 9 A. M. to 4 P. M.; Saturdays, from 9 A. M. to 12 M.

Borough of Richmond.
President's Office, New Brighton, Staten Island.
GEORGE CROWELL, President.
MAYBURY FLEMING, Secretary to the President.
LOUIS LINCOLN TRAVIS, Commissioner of Public Works.
JOHN SEATON, Superintendent of Buildings.
JOHN TIMLIN, Jr., Superintendent of Public Buildings and Offices.
H. E. BUEL, Superintendent of Highways.
RICHARD T. FOX, Superintendent of Street Cleaning.
Office of the President, First National Bank Building, New Brighton, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.

CORONERS.
Borough of Manhattan—Office, New Criminal Court Building. Open at all times of day and night.
SOLOMON GOLDENBERG, NICHOLAS T. BROWN, GUSTAV SCHOLER, MORRIS J. JACKSON.
Borough of the Bronx—Corner of Third avenue and One Hundred and Seventy-seventh street. Telephone 333, Tremont.
WALTER H. HENNING, Chief Clerk.
WILLIAM O'GORMAN, Jr., JOSEPH L. BERRY, Borough of Brooklyn—Office, Room 17, Borough Hall. Open at all times of day and night except between the hours of 12 M. and 3 P. M. on Sundays and holidays.
PHILIP T. WILLIAMS, MICHAEL J. FLAHERTY, Borough of Queens—Office, Borough Hall, Fulton street, Jamaica, L. I.
SAMUEL D. NUTT, LEONARD RUOFF, Jr., MARTIN MAGER, Jr., Chief Clerk.
Office hours from 9 A. M. to 4 P. M.
Borough of Richmond—No. 174 Bay street, Stapleton. Open for the transaction of business all hours of the day and night.
GEORGE F. SCHAEFER.

NEW YORK COUNTY OFFICES.
SURROGATES.
New County Courthouse. Court open from 10 A. M. to 4 P. M., except Saturdays, when it closes at 12 M.
FRANK T. FITZGERALD, ASHER C. THOMAS, Surrogates; WILLIAM V. LEAST, Chief Clerk.

SHERIFF.
Stewart Building, 9 A. M. to 4 P. M.
WILLIAM J. O'BRIEN, Sheriff; EDWARD C. MOORE, Under Sheriff.

COUNTY JAIL.
No. 70 Ludlow street, 6 A. M. to 10 P. M. daily.
WILLIAM J. O'BRIEN, Sheriff.
THOMAS H. SULLIVAN, Warden.

DISTRICT ATTORNEY.
Building for Criminal Courts, Franklin and Centre streets.
Office hours, from 9 A. M. to 5 P. M. Saturdays, 9 A. M. to 12 M.
WILLIAM TRAVERS JEROME, District Attorney.
JOHN A. HENNEBERY, Chief Clerk.

REGISTER.
East side City Hall Park. Office hours from 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M. During the months of July and August the hours are from 9 A. M. to 3 P. M.
JOHN H. J. ROBERT, Register; MATTHEW P. BAREN, Deputy Register.

COUNTY CLERK.
Nos. 8, 9, 10 and 11 New County Courthouse. Office hours from 9 A. M. to 4 P. M.
THOMAS L. HAMILTON, County Clerk.
HENRY BIRDELL, Deputy.
PATRICK H. DUNN, Secretary.

COMMISSIONER OF JURORS.
Room 127 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
CHARLES WELLS, Commissioner.

PUBLIC ADMINISTRATOR.
No. 110 Nassau street, 9 A. M. to 4 P. M.
WILLIAM M. HORN, Public Administrator.

KINGS COUNTY OFFICES.
COUNTY COURT, KINGS COUNTY.
County Courthouse, Brooklyn, Rooms 10, 19, 22 and 23. Court opens at 10 A. M. daily, and sits until business is completed. Part I, Room No. 23; Part II, Room No. 10, Courtroom. Clerk's Office, Rooms 10 and 22, open daily from 9 A. M. to 4 P. M.; Saturdays, 12 M.

JOSEPH ASPINALL and FREDERICK E. CRANE, County Judges.
JULIUS L. WIEMAN, Chief Clerk.
SURROGATE.
Hall of Records, Brooklyn, N. Y.
JAMES C. CHURCH, Surrogate.
WILLIAM P. PICKETT, Clerk of the Surrogate's Court.
Court opens at 10 A. M. Office hours, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.

SHERIFF.
County Courthouse, Brooklyn.
9 A. M. to 4 P. M.; Saturdays, 12 M.
NORMAN S. DIKE, Sheriff; WILLIAM W. WINGATE, Under Sheriff.

COUNTY JAIL.
Raymond street, between Willoughby street and DeKalb avenue, Brooklyn, New York.
NORMAN S. DIKE, Sheriff; JAMES F. ROACH, Warden.

DISTRICT ATTORNEY.
Office, County Courthouse, Borough of Brooklyn. Hours 9 A. M. to 5 P. M.
JOHN F. CLARKE, District Attorney.

REGISTER.
Hall of Records. Office hours, 9 A. M. to 4 P. M., excepting months of July and August, then from 9 A. M. to 2 P. M., provided for by statute.
JOHN K. NEAL, Register.
WARREN C. TREWELL, Deputy Register.
D. H. RALSTON, Assistant Deputy Register.

COUNTY CLERK.
Hall of Records, Brooklyn, 9 A. M. to 4 P. M.
CHARLES T. HARTENBERG, County Clerk.

COMMISSIONER OF JURORS.
JACOB HENNER, Commissioner.
FRANK J. GARDNER, Deputy Commissioner.
ALBERT B. WALDON, Secretary.
Office hours from 9 A. M. to 4 P. M.; Saturdays, from 9 A. M. to 12 M.

COMMISSIONER OF RECORDS.
Rooms 7, 9, 10 and 11, Hall of Records.
Office hours, 9 A. M. to 4 P. M., excepting months of July and August, then 9 A. M. to 2 P. M. Saturdays, 9 A. M. to 12 M.
GEORGE E. WALDO, Commissioner.
JOSEPH H. GREENLE, Deputy Commissioner.
THOMAS D. MOSCROFT, Superintendent.
RICHARD S. STEVER, Chief Clerk.

PUBLIC ADMINISTRATOR.
No. 189 Montague street, Brooklyn, 9 A. M. to 4 P. M., except Saturdays in June, July and August, 9 A. M. to 1 P. M.
WM. B. DAVENPORT, Public Administrator.

QUEENS COUNTY OFFICES.
SURROGATE.
DANIEL NORRIS, Surrogate.
Office at Jamaica.
Except on Sundays, holidays and half-holidays, the office is open, between March 31 and October 1, from 8 A. M. to 5 P. M.; on Saturdays, from 8 A. M. to 12 M.; between September 30 and April 1, from 9 A. M. to 5 P. M.; on Saturdays, from 9 A. M. to 12 M.
Surrogate's Court sits on Thursday and Friday of each week, except during the month of August, when no court is held. Calendar called at 10 A. M.

COUNTY COURT.
County Courthouse, Long Island City.
County Court opens at 9.30 A. M.; adjourns at 1 P. M.
County Judge's office always open at Flushing, N. Y.
HARRISON S. MOORE, County Judge.

SHERIFF.
County Courthouse, Long Island City, 9 A. M. to 4 P. M.; Saturdays, from 9 A. M. to 12 M.
JOSEPH H. DE BRASCA, Sheriff; JOSEPH C. HENNETT, Under Sheriff.

DISTRICT ATTORNEY.
Office, Queens County Courthouse, Long Island City, 9 A. M. to 5 P. M.
JOHN B. MERRILL, District Attorney.
DANIEL O'LEARY, Chief Clerk.

COUNTY CLERK.
Jamaica, N. Y., Fourth Ward, Borough of Queens.
Office hours, April 1 to October 1, 8 A. M. to 5 P. M.; October 1 to April 1, 9 A. M. to 3 P. M.; Saturdays, 12 M.

County and Supreme Court held at the Queens County Courthouse, Long Island City. Court opens 9.30 A. M., to adjourn 2 P. M.
JAMES INGRAM, County Clerk.
CHARLES DOWNING, Deputy County Clerk.

COMMISSIONER OF JURORS.
Office hours, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.
EDWARD J. KRAUER, Commissioner.
H. HOMER MOORE, Assistant Commissioner.

PUBLIC ADMINISTRATOR.
No. 103 Third street, Long Island City, 9 A. M. to 5 P. M.
CHARLES A. WADLEY, Public Administrator.

RICHMOND COUNTY OFFICES.

COUNTY JUDGE AND SURROGATE.
Terms of Court, Richmond County, 1902.
County Courts—STEPHEN D. STEPHENS, County Judge.
From Monday of June, Grand and Trial Jury; First Monday of December, Grand and Trial Jury.

Fourth Wednesday of January, without a Jury; Fourth Wednesday of February, without a Jury; Fourth Wednesday of March, without a Jury; Fourth Wednesday of April, without a Jury; Fourth Wednesday of July, without a Jury; Fourth Wednesday of September, without a Jury; Fourth Wednesday of October, without a Jury;—All at the Courthouse at Richmond.

Surrogate's Court—STEPHEN D. STEPHENS, Surrogate.
Mondays, at the First National Bank Building, St. George, at 10.30 o'clock A. M.; Tuesdays, at the First National Bank Building, St. George, at 10.30 o'clock A. M.; Wednesdays, at the Surrogate's Office, Richmond, at 10.30 o'clock A. M.

DISTRICT ATTORNEY.
Port Richmond, S. I.
Office hours, from 9 A. M. to 12 M., and from 1 P. M. to 5 P. M.
EDWARD S. RAWSON, District Attorney.

COUNTY CLERK.
County Office Building, Richmond, S. I., 9 A. M. to 4 P. M.
EDWARD M. MULLER, County Clerk.
GEORGE M. CONNER, Deputy County Clerk.

SHERIFF.
County Courthouse, Richmond, S. I., 9 A. M. to 4 P. M.
FRANKLIN C. VIRT, Sheriff.
THOMAS H. BARKING, Under Sheriff.

COMMISSIONER OF JURORS.
Village Hall, Stapleton.
CHARLES J. KULLMAN, Commissioner.
J. LOUIS GARRETTSON, Commissioner.
Office open from 9 A. M. until 4 P. M.; Saturdays, from 9 A. M. to 12 M.

THE COURTS.
APPELLATE DIVISION SUPREME COURT.
FIRST JUDICIAL DEPARTMENT.
Courthouse, Madison avenue, corner Twenty-fifth street. Court opens at 1 P. M.

CHARLES H. VAN RENT, Presiding Justice; EDWARD PATTERSON, MORRIS J. O'BRIEN, GEORGE L. INGRAM, CHESTER B. McLAUGHLIN, EDWARD W. HATCH, FRANK C. LAUGHLIN, JUSTICES. ALFRED WADSWORTH, Clerk. WILLIAM LAMB, Jr., Deputy Clerk.
Clerk's Office opens at 9 A. M.

SUPREME COURT—FIRST DEPARTMENT.
County Courthouse, Chambers street. Courts open from 10.15 A. M. to 4 P. M.

Special Term, Part I. (motions), Room No. 12. Special Term, Part II. (ex-parte business), Room No. 15. Special Term, Part III., Room No. 19. Special Term, Part IV., Room No. 11. Special Term, Part V., Room No. 30. Special Term, Part VI. (Elevated Railroad Cases), Room No. 16.

Trial Term, Part I., Room No. 25. Trial Term, Part II., Room No. 17. Trial Term, Part III., Room No. 18. Trial Term, Part IV., Room No. 16. Trial Term, Part V., Room No. 24. Trial Term, Part VI., Room No. 23. Trial Term, Part VII., Room No. 33. Trial Term, Part VIII., Room No. 31. Trial Term, Part IX., Room No. 32. Trial Term, Part X., Room No. 22. Trial Term, Part XI., Room No. 14. Trial Term, Part XII., and Special Term, Part VII., Room No. 26.

Appellate Term, Room No. 31. Naturalization Bureau, Room No. 33, third floor. Assignment Bureau, room on third floor. Clerks in attendance from 10 A. M. to 4 P. M. Clerk's Office, Special Term, Part I. (motions), Room No. 12. Clerk's Office, Special Term, Part II. (ex-parte business), room southwest corner Mezzanine Floor.

Clerk's Office, Special Term Calendar, room southeast corner second floor. Clerk's Office, Trial Term Calendar, room northeast corner, second floor. Clerk's Office, Appellate Term, room southwest corner, third floor.

Trial Term, Part I. (Criminal business). Criminal Courthouse, Centre street. Justices—GEORGE C. BARRETT, CHARLES H. TYLER, CHARLES F. MACLEAN, JAMES FITZGERALD, MILLS BRACE, DAVID LEVINTHAL, LEONARD A. GEDREICH, HENRY BRUCHOW, JR., JOHN J. FREEMAN, GEORGE P. ANDREWS, P. HENRY L'ETMO, JOHN PROCTOR CLARKE, HENRY A. GILLESPIE, FRANCIS M. SCOTT, JAMES A. O'GORMAN, JAMES A. BLANCHARD, SAMUEL GREENBAUM, ALFRED STECKLER, THOMAS L. HAMILTON, Clerk.

SUPREME COURT—SECOND DEPARTMENT.
Kings County Courthouse, Borough of Brooklyn, N. Y.
Courts open daily from 10 o'clock A. M. to 5 o'clock P. M. Five jury trial parts. Special Term for Trials. Special Term for Motions. GEORGE M. STEVENS, General Clerk.

CRIMINAL DIVISION—SUPREME COURT.
Building for Criminal Courts, Centre, Elm, White and Franklin streets.
Court opens at 10.30 A. M.
THOMAS L. HAMILTON, Clerk; EDWARD R. CARROLL, Special Deputy to the Clerk.
Clerk's Office open from 9 A. M. to 4 P. M.

COURT OF GENERAL SESSIONS.
Held in the building for Criminal Courts, Centre, Elm, White and Franklin streets.
Court opens at 10.30 o'clock A. M.
RUFUS B. COWING, City Judge; JOHN W. GARY, Recorder; JOSEPH E. NEWBURGH, MARTIN T. MCMANON and WARREN W. FOSTER, Judges of the Court of General Sessions. EDWARD R. CARROLL, Clerk.
Clerk's office open from 9 A. M. to 4 P. M.

CITY COURT OF THE CITY OF NEW YORK.
No. 33 Chambers street, Brown-stone Building, City Hall Park, from 10 A. M. to 4 P. M.
General Term.
Part I.
Part II.
Part III.
Part IV.
Part V.

Special Term Chambers will be held from 10 A. M. to 4 P. M.
Clerk's office, from 9 A. M. to 4 P. M.
JAMES M. FITZGERALD, Chief Justice; JOHN H. McCARTHY, LEWIS J. CONLAN, EDWARD F. O'DWYER, THOMAS F. HANCOCK, FRANCIS D. DELEHANTY, SAMUEL SEABURY, JUSTICE. THOMAS F. SMITH, Clerk.

COURT OF SPECIAL SESSIONS.

Building for Criminal Courts, Centre street, between Franklin and White streets, Borough of Manhattan.

Court opens at 10 A. M.
Justices—First Division—ELIUS B. HINDELL, WILLIAM E. WYATT, JOHN B. MCKEAN, WILLIAM C. HOLMES, JULIUS M. MAYNE, WILLIAM H. O'BRYEN, WILLIAM M. FULLEN, Clerk; JOSEPH H. JONES, Deputy Clerk.

Clerk's office open from 9 A. M. to 4 P. M.
Second Division—Trial Days—Borough Hall, Brooklyn, Mondays, Wednesdays and Fridays, at 10 o'clock; Town Hall, Jamaica, Borough of Queens, Tuesdays, at 10 o'clock; Town Hall, New Brighton, Borough of Richmond, Thursdays, at 10 o'clock.

Justices—JOHN COURTNEY, HOWARD J. FORSTER, PATRICK KEADY, JOHN FLEMING, THOMAS W. FITZGERALD, JOSEPH L. KERRIGAN, Clerk; JOHN J. DORMAN, Deputy Clerk.

Clerk's office, Borough Hall, Borough of Brooklyn; open from 9 A. M. to 4 P. M.

CITY MAGISTRATES' COURTS.

Courts open from 9 A. M. until 4 P. M.
City Magistrates—HENRY A. BEAN, ROBERT C. CORNELL, LEON T. CHASE, JOSEPH M. DEWICK, CHARLES A. FLANNERY, LORENZ ZELLEN, CLARENCE W. MEADE, JOHN Q. MORT, JOSEPH POOL, JOHN B. MAYO, EDWARD HOGAN.

First District—Criminal Court Building.

Second District—Jefferson Market.

Third District—No. 69 Essex street.

Fourth District—Fifty-seventh street, near Lexington avenue.

Fifth District—One Hundred and Twenty-first street, southeastern corner of Sylvan place.

Sixth District—One Hundred and Fifty-eighth street and Third avenue.

Seventh District—Fifty-fourth street, west of Eighth avenue.

SECOND DIVISION.

Borough of Brooklyn.

City Magistrates—ALFRED E. STEERS, A. V. B. VOORHIES, JR., JAMES G. TIGHER, EDWARD J. DOOLY, JOHN NAUMER, E. G. HIGGINTHAM, FRANK E. O'RIELLY, HENRY J. FURLONG.

First District—No. 318 Adams street.

Second District—Court and Butler streets.

Third District—Myrtle and Vanderbilt avenues.

Fourth District—Lee avenue and Clymer street.

Fifth District—Manhattan avenue and Powers street.

Sixth District—Gates and Reid avenues.

Seventh District—Grant street (Flatbush).

Eighth District—West Eighth street (Coney Island).

Borough of Queens.

City Magistrates—MATTHEW J. SMITH, LUCAS J. CONNOR, EDWARD J. HEALY.

First District—Long Island City.

Second District—Flushing.

Third District—Far Rockaway.

Borough of Richmond.

City Magistrates—JOHN CHASE, NATHANIEL MAKER.

First District—New Brighton, Staten Island.

Second District—Stapleton, Staten Island.

President of Board, ALFRED E. STEERS, No. 76 Clarkson street.

Secretary to Board, THOMAS D. OSBORN, West Eighth street, Coney Island.

MUNICIPAL COURTS.

Borough of Manhattan.

First District—Third, Fifth and Eighth Wards, and all that part of the First Ward lying west of Broadway and Whitehall street, including Governor's Island, Bedloe's Island, Ellis Island, and the Oyster Islands. New Courthouse, No. 128 Prince street, corner of Wooster street.

DANIEL E. FINN, Justice. FRANK L. BACON, Clerk.

Clerk's office open from 9 A. M. to 4 P. M.

Second District—Second, Fourth, Sixth and Fourteenth Wards, and all that portion of the First Ward lying south and east of Broadway and Whitehall street. Courtroom, corner of Grand and Centre streets.

HERMAN BOLTA, Justice. FRANCIS MANGIN, Clerk.

Clerk's office open from 9 A. M. to 4 P. M.

Court opens daily at 10 A. M., and remains open until daily calendar is disposed of and close of the daily business, except on Sundays and legal holidays.

Third District—Ninth and Fifteenth Wards. Courtroom, southwest corner Sixth avenue and West Tenth street. Court open daily (Sundays and legal holidays excepted), from 9 A. M. to 4 P. M.

WM. F. MOORE, Justice. DANIEL WILLIAMS, Clerk.

Fourth District—Tenth and Seventeenth Wards. Courtroom, No. 30 First street, corner Second avenue. Clerk's office open daily from 9 A. M. to 4 P. M. Court opens at 10 A. M. daily, and remains open to close of business.

GEORGE F. ROSEN, Justice. JULIUS HANSEN, Clerk.

Fifth District—Seventh, Eleventh and Thirteenth Wards. Courtroom, No. 154 Clinton street.

BENJAMIN HOFFMAN, Justice. THOMAS FLYPATRICK, Clerk.

Sixth District—Eighteenth and Twenty-first Wards. Courtroom, northwest corner Twenty-third street and Second avenue. Court opens at 9 A. M. daily, and continues open to close of business.

DANIEL F. MARTIN, Justice. ABRAHAM BERMAN, Clerk.

Seventh District—Nineteenth Ward. Courtroom, No. 121 East Fifty-seventh street. Court opens every morning at 9 o'clock (except Sundays and legal holidays), and continues open to close of business.

HERMAN JOSEPH, Justice. PATRICK McDAVITT, Clerk.

Eighth District—Sixteenth and Twentieth Wards. Courtroom, northwest corner Twenty-third street and Eighth avenue. Court opens at 9 A. M. daily, and continues open to close of business.

Clerk's office open from 9 A. M. to 4 P. M., and on Saturdays until 12 M.

Trial days and return days, each Court day. JOSEPH H. STRICK, Justice. HENRY MESSACK, Clerk.

Ninth District—Twelfth Ward, except that portion thereof which lies west of the centre line of Lenox or Sixth avenue, and of the Harlem river north of the terminus of Lenox avenue. Courtroom, No. 175 East One Hundred and Twenty-first street, southeast corner of Sylvan place. Court opens every morning at 9 o'clock (except Sundays and legal holidays), and continues open to close of business.

JOSEPH F. PALSON, Justice. WILLIAM J. KERR, Clerk.

Clerk's office open daily from 9 A. M. to 4 P. M.

Tenth District—Twenty-second Ward and all that portion of the Twelfth Ward which is bounded on the north by the centre line of One

Hundred and Tenth street, on the south by the centre line of Eighty-sixth street, on the east by the centre line of Sixth avenue, and on the west by the North river. Courtroom, No. 314 West Fifty-fourth street. Court opens daily (Sundays and legal holidays excepted) from 9 A. M. to 4 P. M.

THOMAS E. MURRAY, Justice. HUGH GRANT, Clerk.

Eleventh District—That portion of the Twelfth Ward which lies north of the centre line of West One Hundred and Tenth street and west of the centre line of Lenox or Sixth avenue, and of the Harlem river north of the terminus of Lenox or Sixth avenue. Courtroom, corner of One Hundred and Twenty-sixth street and Columbus avenue. Clerk's office open daily (Sundays and legal holidays excepted), from 9 A. M. to 4 P. M. Court convenes daily at 9.45 A. M.

FRANCIS J. WORCESTER, Justice. HERMAN B. WILSON, Clerk.

BOROUGH OF THE BRONX.

First District—All that part of the Twenty-fourth Ward which was lately annexed to the City and County of New York by chapter 1024 of the Laws of 1895, comprising all of the late Town of Westchester and part of the Towns of Eastchester and Pelham, including the Villages of Wakefield and Williamsbridge. Courtroom, Town Hall, Main street, Westchester Village. Court open daily (Sundays and legal holidays excepted) from 9 A. M. to 4 P. M. Trial of causes are Tuesday and Friday of each week.

WILLIAM W. PENFIELD, Justice. JOHN N. STEWART, Clerk.

Office hours, from 9 A. M. to 5 P. M.; Saturdays closing at 12 M.

Second District—Twenty-third and Twenty-fourth Wards, except the territory described in chapter 934 of the Laws of 1895. Courtroom, corner of Third avenue and One Hundred and Fifty-eighth street. Office hours from 9 A. M. to 4 P. M. Court opens at 10 A. M.

JOHN M. TIERNEY, Justice. THOMAS A. MAKER, Clerk.

BOROUGH OF BROOKLYN.

First District—Comprising First, Second, Third, Fourth, Fifth, Sixth, Tenth and Twelfth Wards of the Borough of Brooklyn. Court-house, northwest corner State and Court streets.

JOHN J. WALSH, Justice. EDWARD MORAN, Clerk.

Clerk's office open from 9 A. M. to 4 P. M. Calendar called at 10 A. M.

Second Division—Seventh, Eighth, Ninth, Eleventh, Twentieth, Twenty-first, Twenty-second and Twenty-third Wards. Courtroom, located at No. 794 Broadway, Brooklyn.

GEORGE B. VAN WART, Justice. WILLIAM H. ALLEN, Clerk.

Clerk's office open from 9 A. M. to 4 P. M.

Third District—Includes the Thirteenth, Fourteenth, Fifteenth, Sixteenth, Seventeenth, Eighteenth and Nineteenth Wards. Court-house, Nos. 6 and 8 Lee avenue, Brooklyn.

WILLIAM J. LYNCH, Justice. JOHN W. CAMPBELL, Clerk.

Clerk's office open from 9 A. M. to 4 P. M. Court opens at 10 o'clock.

Fourth District—Twenty-fourth, Twenty-fifth, Twenty-sixth, Twenty-seventh and Twenty-eighth Wards. Courtroom, No. 14 Howard avenue.

THOMAS H. WILLIAMS, Justice. HERMAN GOHLINGHOUT, Clerk; JAMES P. SINNOTT, Assistant Clerk.

Clerk's office open from 9 A. M. to 4 P. M.

Fifth District—Eight, Twenty-second, Twenty-ninth, Thirtieth, Thirty-first, and Thirty-second Wards. Court-house, Bay Twenty-second street and Bath avenue, Bath Beach. Telephone 83. Bath.

CORNELIUS FERGUSON, Justice. JEREMIAH J. O'LEARY, Clerk.

Clerk's office open from 9 A. M. to 4 P. M.

BOROUGH OF QUEENS.

First District—First Ward (all of Long Island City, formerly composing five wards). Courtroom, No. 46 Jackson avenue, Long Island City.

Clerk's office open from 9 A. M. to 4 P. M. each day, excepting Saturdays, closing at 12 M. Trial days, Mondays, Wednesdays and Fridays. All other business transacted on Tuesdays and Thursdays.

THOMAS C. KADEN, Justice. THOMAS F. KENNEY, Clerk.

Second District—Second and Third Wards, which include the territory of the late Towns of Newtown and Flushing. Courtroom, in Court house of late Town of Newtown, corner of Broadway and Court street, Elmhurst, New York P. O. address, Elmhurst, New York.

WILLIAM RASQUIN JR., Justice. HENRY WALTER, Jr., Clerk.

Clerk's office open from 9 A. M. to 4 P. M.

Third District—JAMES P. McLAUGHLIN, Justice. GEORGE W. DAMON, Clerk.

Court-house, Town Hall, Jamaica.

Clerk's office open from 9 A. M. to 4 P. M.

Court held on Mondays, Wednesdays and Fridays at 10 A. M.

BOROUGH OF RICHMOND.

First District—First and Third Wards (Town of Castleton and Northfield). Courtroom, former Village Hall, Lafayette avenue and Second street, New Brighton.

JOHN J. KENNEY, Justice. FRANCIS F. LEMAS, Clerk.

Clerk's office open from 9 A. M. to 4 P. M.

Court held each day, except Saturdays, from 10 A. M.

Second District—Second, Fourth and Fifth Wards (Towns of Middletown, Southfield and Westfield). Courtroom, former Edgewater Village Hall, Stapleton.

GEORGE W. STARR, Justice. PETER TRENNAR, Clerk.

Clerk's office open from 9 A. M. to 4 P. M.

Court held each day from 10 A. M., and continues until close of business.

BOROUGH OF RICHMOND.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF RICHMOND, FIRST NATIONAL BANK BUILDING, ST. GEORGE, NEW BRIGHTON, NEW YORK CITY.

3,600 linear feet new bluestone curbstone furnished and set.
30 linear feet of 20-inch culvert pipe relaid.
10 linear feet of 20-inch culvert pipe furnished and laid.
140 linear feet of 24-inch culvert pipe relaid.
10 linear feet of 24-inch culvert pipe furnished and laid.
1 new standard dripstone furnished and laid.
1 new standard receiving basin with connections complete.
2 cubic yards of brickwork.
1 iron roadbox with connections.
The time for the completion of the work and the full performance of the contract is 75 consecutive working days.
The amount of security required is ten thousand dollars (\$10,000).

No. 2. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING, GRADING AND PAVING OR REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF RICHMOND TERRACE, FROM S. I. R. T. R. R. CO.'S CROSSING TO WEST SIDE OF FERRY STREET, AND RICHMOND AVENUE, FROM SOUTH SIDE OF RICHMOND TERRACE TO FERRY LANDING, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

5,400 square yards of asphalt pavement, including binder course.
1,150 cubic yards of concrete.
2,450 linear feet of new bluestone curbstone furnished and set.
60 linear feet of new 3-inch flagstone furnished and set.
3 new standard dripstones furnished and set.
3 new standard receiving basins with connections complete.
4 cubic yards of brickwork.

The time for the completion of the work and the full performance of the contract is 30 consecutive working days.

The amount of security required is seven thousand dollars (\$7,000).

No. 3. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING, GRADING AND PAVING OR REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF WATER STREET, FROM BAY STREET TO WRIGHT STREET, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

2,200 square yards of asphalt block pavement.
300 cubic yards of concrete, including mortar bed.
350 linear feet of new curbstone furnished and set on concrete foundation.
50 square feet of new 3-inch flagstone furnished and set.
1 basin head reset.
1 hole cut in flag and iron cover.
2 new standard dripstones furnished and set.
1,000 feet B. M. yellow pine timber cut and fastened in place.
1 cubic yard of brickwork.

The time for the completion of the work and the full performance of the contract is 25 consecutive working days.

The amount of security required is twenty-five hundred dollars (\$2,500).

No. 4. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING AND PAVING OR REPAVING WITH GRANITE BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF RICHMOND TERRACE, FROM WEST SIDE OF YORK AVENUE TO EAST SIDE OF WESTERVELT AVENUE, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

2,650 square yards of new granite block pavement, including sandbed laid with paving cement joints.
500 cubic yards of concrete.
1,150 square feet of new bridge stones furnished and laid.
1,450 linear feet of new curbstone furnished and set.
50 linear feet of new 3-inch flagging furnished and set.
30 linear feet of new 12-inch coping furnished and set.

2 new standard dripstones furnished and set.
1 new standard receiving basin with connections.
2 cubic yards of brickwork.

The time for the completion of the work and the full performance of the contract is 40 consecutive working days.

The amount of security required is five thousand dollars (\$5,000).

No. 5. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING AND PAVING OR REPAVING WITH GRANITE BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF JERSEY STREET, FROM SOUTH SIDE OF RICHMOND TERRACE TO SOUTH SIDE OF FIFTH STREET, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

4,600 square yards of new granite block pavement, including sandbed laid with paving cement joints.
850 cubic yards of concrete.
600 square feet of new bridge stones furnished and laid.
2,750 linear feet of new curbstone furnished and set.
20 linear feet of new 12-inch coping furnished and set.
1 cubic yard of brickwork.

The time for the completion of the work and the full performance of the contract is 50 consecutive working days.

The amount of security required is eight thousand dollars (\$8,000).

No. 6. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING, GRADING AND PAVING WITH MACADAM PAVEMENT THE ROADWAY OF BEACH AVENUE, FROM NEWDORP LANE TO BURBANK'S, TOGETHER WITH ALL THE WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

500 cubic yards of excavation.

2,050 square yards of macadam pavement.
40 square yards of new granite block pavement.
The time for the completion of the work and the full performance of the contract is 30 working days.
The amount of security required is one thousand dollars (\$1,000).
The contracts must be bid for separately, and the bids will be compared and the contract awarded at a lump or aggregate sum for each contract.
The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per foot, yard or other unit of measure or article by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total.

Blank forms, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, can be obtained upon application therefor at the office of the President. The plans and drawings may be seen and other information obtained at the office of the Commissioner of Public Works of the Borough of Richmond, Richmond Building, New Brighton, Borough of Richmond.

GEORGE CROMWELL, President.

THE CITY OF NEW YORK, July 23, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

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BOROUGH OF MANHATTAN.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF MANHATTAN, CITY HALL, THE CITY OF NEW YORK, August 1, 1902.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Manhattan at the City Hall, Room No. 16, until 11 o'clock A. M. on

TUESDAY, AUGUST 12, 1902.

No. 1. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION, THE ROADWAY OF NINETY-THIRD STREET, FROM MADISON TO FIFTH AVENUE.

The Engineer's estimate of the quantities is as follows:

1,340 square yards of asphalt pavement, including binder course.
1,550 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.
246 linear feet new curbstone, furnished and set.
100 linear feet old curbstone redressed, re-jointed and reset.
5 noiseless covers complete for sewer man-holes, furnished and set.
1 noiseless cover complete for water manholes, furnished and set.

The time for the completion of the work and the full performance of the contract is 20 days.

The amount of security required is \$1,000.

No. 2. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION, THE ROADWAY OF EIGHTIETH STREET, FROM BROADWAY TO WEST END AVENUE.

The Engineer's estimate of the quantities is as follows:

910 square yards of asphalt pavement, including binder course.
920 square yards of old stone pavement, to be relaid as foundation or in approaches, etc.
480 linear feet of new curbstone, furnished and set.
60 linear feet of old curbstone redressed, re-jointed and reset.
3 noiseless covers complete for sewer manholes, furnished and set.
1 noiseless cover complete for water manholes, furnished and set.

The time for the completion of the work and the full performance of the contract is 10 days.

The amount of security required is \$800.

No. 3. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION, THE ROADWAY OF NINETY-FIFTH STREET, FROM COLUMBUS TO AMSTERDAM AVENUE.

The Engineer's estimate of the quantities is as follows:

2,780 square yards of asphalt pavement, including binder course.
2,790 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.
1,561 linear feet new curbstone, furnished and set.
101 linear feet old curbstone, redressed, re-jointed and reset.
7 noiseless covers complete for sewer man-holes, furnished and set.
2 noiseless covers complete for water man-holes, furnished and set.

The time for the completion of the work and the full performance of the contract is 30 days.

The amount of security required is \$2,500.

No. 4. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION, THE ROADWAY OF ONE HUNDRED AND SEVENTH STREET, FROM CENTRAL PARK WEST TO MANHATTAN AVENUE.

The Engineer's estimate of the quantities is as follows:

1,290 square yards of asphalt pavement, including binder course.
1,300 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.
410 linear feet of new curbstone, furnished and set.
360 linear feet of old curbstone, redressed, re-jointed and reset.
3 noiseless covers complete for sewer man-holes, furnished and set.
1 noiseless cover complete for water manhole, furnished and set.

The time for the completion of the work and the full performance of the contract is 15 days.

The amount of security required is \$1,000.

No. 5. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION, THE ROADWAY OF ONE HUNDRED AND THIRTY-SIXTH STREET, FROM LENOX TO SEVENTH AVENUE.

The Engineer's estimate of the quantities is as follows:

2,730 square yards of asphalt pavement, including binder course.
2,740 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.
1,190 linear feet of new curbstone, furnished and set.
440 linear feet of old curbstone, redressed, re-jointed and reset.
8 noiseless covers complete for sewer man-holes, furnished and set.
2 noiseless covers complete for water man-holes, furnished and set.

Time for the completion of the work and the full performance of the contract is 30 days. The amount of security required is \$5,500.

No. 6. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAND AS FOUNDATION THE ROADWAY OF ONE HUNDRED AND THIRTY-SECOND STREET, FROM SEVENTH TO EIGHTH AVENUE.

The Engineer's estimate of the quantities is as follows:

2,700 square yards of asphalt pavement, including binder course,
2,716 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.,
1,300 linear feet of new curbstone, furnished and set.

30 linear feet of old curbstone, redressed, re-joined and reset.
5 noiseless covers, complete, for sewer man-holes, furnished and set.

2 noiseless covers, complete, for water man-holes, furnished and set.

Time for the completion of the work and the full performance of the contract is 30 days. The amount of security required is \$5,500.

No. 7. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAND AS FOUNDATION THE ROADWAY OF ONE HUNDRED AND NINETEENTH STREET, FROM FIFTH TO SEVENTH AVENUE.

The Engineer's estimate of the quantities is as follows:

5,500 square yards of asphalt pavement, including binder course,
5,500 square yards of old stone pavement, to be relaid as foundation or in approaches, etc.,
3,160 linear feet of new curbstone furnished and set.

400 linear feet of old curbstone redressed, re-joined and reset.
17 noiseless covers, complete for sewer man-holes, furnished and set.

5 noiseless covers, complete for water man-holes, furnished and set.

Time for the completion of the work and the full performance of the contract is 30 days. The amount of security required is \$5,000.

No. 8. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAND AS FOUNDATION THE ROADWAY OF FIFTY-FIFTH STREET, FROM SEVENTH AVENUE TO BROADWAY.

The Engineer's estimate of the quantities is as follows:

980 square yards of asphalt pavement, including binder course,
980 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.,
185 linear feet of new curbstone, furnished and set.

3 noiseless covers, complete for sewer man-holes, furnished and set.

Time for the completion of the work and the full performance of the contract is 30 days. The amount of security required is \$800.

No. 9. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAND AS FOUNDATION THE ROADWAY OF FIFTY-SIXTH STREET, FROM SEVENTH AVENUE TO BROADWAY.

The Engineer's estimate of the quantities is as follows:

1,200 square yards of asphalt pavement, including binder course,
1,200 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.,
300 linear feet of new curbstone, furnished and set.

160 linear feet of old curbstone, redressed, re-joined and reset.
4 noiseless covers, complete for sewer man-holes, furnished and set.

Time for the completion of the work and the full performance of the contract is 15 days. The amount of security required is \$1,000.

No. 10. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAND AS FOUNDATION THE ROADWAY OF SIXTY-FOURTH STREET, FROM SECOND TO THIRD AVENUE.

The Engineer's estimate of the quantities is as follows:

2,100 square yards of asphalt pavement, including binder course,
2,170 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.,
1,130 linear feet of new curbstone, furnished and set.

25 linear feet of old curbstone, redressed, re-joined and reset.
25 linear feet of old curbstone, redressed, re-joined and reset.

6 noiseless covers, complete for sewer man-holes, furnished and set.
2 noiseless covers, complete for water man-holes, furnished and set.

Time for the completion of the work and the full performance of the contract is 25 days. The amount of security required is \$2,000.

No. 11. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAND AS FOUNDATION THE ROADWAY OF FORTY-SEVENTH STREET, FROM FIRST TO THIRD AVENUE.

The Engineer's estimate of the quantities is as follows:

4,400 square yards of asphalt pavement, including binder course,
4,430 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.,
2,630 linear feet of new curbstone, furnished and set.

10 linear feet of old curbstone to redress, re-join and reset.
12 noiseless covers, complete for sewer man-holes, furnished and set.

4 noiseless covers, complete for water man-holes, furnished and set.

Time for the completion of the work and the full performance of the contract is 30 days. The amount of security required is \$4,000.

No. 12. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAND AS FOUNDATION THE ROADWAY OF LEXINGTON AVENUE, FROM ONE HUNDRED AND FIFTH TO ONE HUNDRED AND SIXTH STREET.

The Engineer's estimate of the quantities is as follows:

1,200 square yards of asphalt pavement, including binder course,
1,200 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.,
400 linear feet of new curbstone, furnished and set.

180 linear feet of old curbstone to redress, re-join and reset.
2 noiseless covers, complete for sewer man-holes, furnished and set.

2 noiseless covers, complete for water man-holes, furnished and set.

Time for the completion of the work and the full performance of the contract is 15 days. The amount of security required is \$1,000.

The amount of security required is \$1,000.

No. 13. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAND AS FOUNDATION THE ROADWAY OF MADISON AVENUE, FROM NINETY-FIRST TO NINE-TY-FOURTH STREET.

The Engineer's estimate of the quantities is as follows:

2,075 square yards of asphalt pavement, including binder course,
3,090 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.,
655 linear feet of new curbstone, furnished and set.

210 linear feet of old curbstone, redressed, re-joined and reset.
4 noiseless covers, complete for sewer man-holes, furnished and set.

5 noiseless covers, complete for water man-holes, furnished and set.

Time for the completion of the work and the full performance of the contract is 30 days. The amount of security required is \$2,500.

No. 14. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAND AS FOUNDATION THE ROADWAY OF ONE HUNDRED AND SECOND STREET, FROM FIRST TO SECOND AVENUE.

The Engineer's estimate of the quantities is as follows:

2,250 square yards of asphalt pavement, including binder course,
2,260 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.,
1,330 linear feet of new curbstone, furnished and set.

20 linear feet of old curbstone, redressed, re-joined and reset.
5 noiseless covers, complete for sewer man-holes, furnished and set.

2 noiseless covers, complete for water man-holes, furnished and set.

Time for the completion of the whole work and the full performance of the contract is 25 days. The amount of security required is \$2,000.

No. 15. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAND AS FOUNDATION THE ROADWAY OF NINETY-FOURTH STREET, FROM MADISON TO FIFTH AVENUE.

The Engineer's estimate of the quantities is as follows:

5,470 square yards of asphalt pavement, including binder course,
5,470 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.,
351 linear feet of new curbstone, furnished and set.

212 linear feet of old curbstone, redressed, re-joined and reset.
5 noiseless covers, complete for sewer man-holes, furnished and set.

7 noiseless covers, complete for water man-holes, furnished and set.

Time for the completion of the work and the full performance of the contract is 15 days. The amount of security required is \$1,000.

No. 16. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAND AS FOUNDATION THE ROADWAY OF ONE HUNDRED AND TWENTY-NINTH STREET, FROM MADISON TO PARK AVENUE.

The Engineer's estimate of the quantities is as follows:

5,400 square yards of asphalt pavement, including binder course,
5,400 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.,
600 linear feet of new curbstone, furnished and set.

260 linear feet of old curbstone, redressed, re-joined and reset.
4 noiseless covers, complete for sewer man-holes, furnished and set.

1 noiseless cover, complete for water man-holes, furnished and set.

Time for the completion of the work and the full performance of the contract is 15 days. The amount of security required is \$1,000.

No. 17. REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAND AS FOUNDATION THE ROADWAY OF HUBERT STREET, FROM COLLISTER TO HUDSON; BEACH STREET, FROM COLLISTER TO HUDSON, AND COLLISTER STREET, FROM HUBERT TO BEACH STREET.

The Engineer's estimate of the quantities is as follows:

1,020 square yards of asphalt, including binder course,
1,020 square yards of old stone pavement, to be relaid as foundation, or in approaches, etc.,
166 linear feet of new curbstone, furnished and set.

390 linear feet of old curbstone, redressed, re-joined and reset.
5 noiseless covers complete for sewer man-holes, furnished and set.

2 noiseless covers for water man-holes, furnished and set.

Time for the completion of the work and the full performance of the contract is twenty (20) days.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per linear foot, square foot, square yard, cubic yard, or other unit of measure. The extensions must be made and footed up, as the bids will be read from the total, and awards made to the lowest bidder.

The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Blank forms, specifications and any further information can be obtained at the office of the Commissioner of Public Works, Bureau of Highways, No. 21 Park row, Borough of Manhattan.

JACOB A. CANTOR,
Borough President.

THE CITY OF NEW YORK, August 1, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

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OFFICE OF THE PRESIDENT OF THE BOROUGH OF MANHATTAN, CITY HALL, THE CITY OF NEW YORK, August 1, 1902.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Manhattan at the City Hall, Room No. 16, until 12 o'clock a. m. on

TUESDAY, AUGUST 12, 1902.

No. 1. REGULATING GRADING, SETTING CURBSTONES AND FLAGGING SIDEWALKS ON TENTH AVENUE, FROM ACADEMY STREET TO BROADWAY.

The Engineer's estimate of the quantities is as follows:

30,447 cubic yards of earth excavation.
4,365 cubic yards of rock excavation.
10,020 cubic yards of filling, to be furnished (exclusive of that secured from excavation).

120 linear feet of stone culvert, furnished and laid.
8,800 linear feet of paved gutter 4 feet wide.
7,900 linear feet of new curbstone, furnished and set.

28,300 square feet new flagging, furnished and laid. Time for the completion of the work and the full performance of the contract is 300 days. The amount of security required is \$12,000.

No. 2. REGULATING, GRADING, SETTING CURBSTONES AND FLAGGING SIDEWALKS ON ONE HUNDRED AND TWENTY-SECOND STREET, FROM MORNINGSIDE PARK WEST TO AMSTERDAM AVENUE.

The Engineer's estimate of the quantities is as follows:

5,300 cubic yards earth excavation.
8,000 cubic yards rock excavation.
350 linear feet new curbstone, furnished and set.
600 linear feet old curbstone, to be redressed and reset.

1,600 square feet new flagging, furnished and laid.
2,000 square feet old flagging, to be relaid.
250 cubic yards stone wall to be removed. (The cost thereof to be included in the price bid for earth excavation.)

Time for the completion of the work and the full performance of the contract is 100 days. The amount of security required is \$3,000.

The bidder will state the price of each item or article contained in the specifications or schedules article contained or hereto annexed, per linear foot, square foot, square yard, cubic yard, or other unit of measure. The extensions must be made and footed up, as the bids will be read from the total, and awards made to the lowest bidder.

The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Blank forms, specifications and any further information can be obtained at the office of the Commissioner of Public Works, Bureau of Highways, No. 21 Park row, Borough of Manhattan.

JACOB A. CANTOR,
Borough President.

THE CITY OF NEW YORK, August 1, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

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OFFICE OF THE PRESIDENT OF THE BOROUGH OF MANHATTAN, CITY HALL, THE CITY OF NEW YORK, August 1, 1902.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Manhattan at the City Hall, Room No. 16, until 12 o'clock a. m. on

TUESDAY, AUGUST 12, 1902.

No. 1. REGULATING AND REPAVING WITH ASPHALT BLOCK PAVEMENT ON CONCRETE FOUNDATION THE ROADWAY OF NINETY-SECOND STREET, FROM BROADWAY TO WEST END AVENUE.

The Engineer's estimate of the quantities is as follows:

1,180 square yards of asphalt block pavement.
150 cubic yards of concrete, including mortar bed.
200 linear feet of new curbstone, furnished and set on concrete foundation.

500 linear feet of old curbstone, redressed, re-joined and reset on concrete foundation.
2 noiseless covers, complete, for water man-holes, to be furnished and set.

3 noiseless covers, complete, for sewer man-holes, to be furnished and set.

Time for the completion of the work and the full performance of the contract is 15 days. The amount of security required is \$1,000.

No. 2. REGULATING AND REPAVING WITH ASPHALT BLOCK PAVEMENT ON CONCRETE FOUNDATION THE ROADWAY OF NINETY-FOURTH STREET, FROM COLUMBUS AVENUE TO AMSTERDAM AVENUE.

The Engineer's estimate of the quantities is as follows:

2,800 square yards of asphalt block pavement.
20 square yards of old stone block pavement, to be relaid in approaches, etc.
440 cubic yards of concrete, including mortar bed.

1,340 linear feet of new curbstone furnished and set on concrete foundation.
100 linear feet of old curbstone, redressed, re-joined and reset on concrete foundation.

1 noiseless cover complete for water man-holes, to be furnished and set.
7 noiseless covers, complete, for sewer man-holes, to be furnished and set.

Time for the completion of the work and the full performance of the contract is 30 days. The amount of security required is \$2,500.

No. 3. REGULATING AND REPAVING WITH ASPHALT BLOCK PAVEMENT ON CONCRETE FOUNDATION THE ROADWAY OF ONE HUNDRED AND FIFTH STREET, FROM CENTRAL PARK WEST TO BROADWAY.

The Engineer's estimate of the quantities is as follows:

6,875 square yards of asphalt block pavement.
869 cubic yards of concrete, including mortar bed.
3,550 linear feet of new curbstone, furnished and set on concrete foundation.

375 linear feet of old curbstone redressed, re-joined and reset on concrete foundation.
3 noiseless covers, complete, for water man-holes, to be furnished and set.

17 noiseless covers, complete for sewer man-holes, to be furnished and set.

Time for the completion of the work and the full performance of the contract is 70 days. The amount of security required is \$5,000.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per linear foot, square foot, square yard, cubic yard, or other unit of measure. The extensions must be made and footed up, as the bids will be read from the total, and awards made to the lowest bidder.

The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Blank forms, specifications and any further information can be obtained at the office of the Commissioner of Public Works, Bureau of Highways, No. 21 Park row, Borough of Manhattan.

JACOB A. CANTOR,
Borough President.

THE CITY OF NEW YORK, July 31, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

87,19

OFFICE OF THE PRESIDENT OF THE BOROUGH OF MANHATTAN, CITY HALL, THE CITY OF NEW YORK, July 26, 1902.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Manhattan at the City Hall, Room No. 16, until 12 o'clock a. m. on

WEDNESDAY, AUGUST 6, 1902.

No. 1. FOR FURNISHING AND ERECTING AND MAINTAINING FOR A PERIOD OF THREE (3) YEARS SIX THOUSAND (6,000), MORE OR LESS, OF DARK BLUE ENAMELED METAL STREET SIGNS, WITH CLEAR CUT, CONSPICUOUS WHITE LETTERS IN TWO SIZES, AS PER SPECIFICATIONS AND THE REQUIREMENTS OF THE BOROUGH PRESIDENT.

No. 2. FOR FURNISHING, ERECTING AND MAINTAINING (WITHOUT LIGHTING) FOR A PERIOD OF THREE (3) YEARS, ON EXISTING LAMP-POSTS, FIRE-ALARM POSTS, ELECTRIC-LIGHT POLES AND ON OTHER POSTS AND POLES, THAT MAY BE ERECTED, TWELVE HUNDRED (1,200), MORE OR LESS, STREET SIGN BOXES OF TWO DIFFERENT PATTERNS, ONE FOR ELECTRIC-LIGHT AND THE OTHER FOR GAS-LIGHT, AS PER SPECIFICATIONS AND REQUIREMENTS OF THE BOROUGH PRESIDENT.

No. 3. FOR FURNISHING, ERECTING AND MAINTAINING (WITHOUT LIGHTING) FOR A PERIOD OF THREE (3) YEARS, ON EXISTING LAMP-POSTS, FIRE-ALARM POSTS AND ELECTRIC-LIGHT POLES OR ON ANY OTHER POSTS OR POLES THAT MAY BE ERECTED, TWO THOUSAND (2,000), MORE OR LESS, STREET SIGN BOXES WITH A REFLECTOR ATTACHMENT, AS PER SPECIFICATIONS AND THE REQUIREMENTS OF THE BOROUGH PRESIDENT. SAID SIGN BOXES TO HAVE A REFLECTOR, DEFLECTOR AND RADIATOR ATTACHMENT, SIMILAR TO THE SIGN MANUFACTURED BY THE ELECTRICAL REFLECTOR COMPANY, "OR EQUAL THERETO."

The said signs or sign boxes in each and every case to be and become the property of The City of New York, and the said price to include the maintenance of said signs for a period of three (3) years.

The time allowed for furnishing and erecting the said street signs and sign boxes will be ninety days. The sureties required will be:

Contract No. 1..... \$2,000 00
Contract No. 2..... 5,000 00
Contract No. 3..... 10,000 00

—including in each case the bond for maintenance.

The bidders will state the price of each article, sign or sign box named and described in the specifications herein contained or hereto annexed, per sign, sign box or other unit by which the bids will be tested.

Blank forms, specifications and any further information can be obtained at the office of the President of the Borough, Room No. 16, City Hall, Borough of Manhattan.

JACOB A. CANTOR,
Borough President.

THE CITY OF NEW YORK, July 26, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

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DEPARTMENT OF EDUCATION.

DEPARTMENT OF EDUCATION, CORNER PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education, until 12 o'clock noon, on

FRIDAY, AUGUST 15, 1902.

Borough of Brooklyn.

CONTRACT NO. 1. FOR THE ERECTION OF A NEW BUILDING, THE CHANGING OF POSITION OF THE PRESENT BUILDING, ALTERATIONS, ETC., OF PUBLIC SCHOOL NO. 31, CORNER OF ALBANY AVENUE, ON THE SOUTHERLY SIDE OF EAST NEW YORK AVENUE, BOROUGH OF BROOKLYN.

The time of completion is 175 working days. The amount of security required is \$25,000.

CONTRACT NO. 2. FOR THE GENERAL CONSTRUCTION OF NEW PUBLIC SCHOOL NO. 139, ON THE SOUTHERLY SIDE OF FORT HAMILTON AVENUE, BETWEEN OCEAN PARKWAY AND EAST FIFTH STREET, BOROUGH OF BROOKLYN.

The time of completion is 300 working days. The amount of security required is \$50,000.

CONTRACT NO. 3. FOR ALTERATIONS AND REPAIRS TO PUBLIC SCHOOLS 1, 8, 11, COMMERCIAL HIGH SCHOOL, BOYS' HIGH SCHOOL, ANNEX TO ERASMUS HALL HIGH SCHOOL AND ANNEX TO MANUAL TRAINING HIGH SCHOOL, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work on each school will be 35 working days. The amount of security required is as follows:

Public School 1..... \$1,200 00
Public School 8..... 1,600 00
Public School 11..... 700 00
Commercial High School..... 1,100 00
Boys' High School..... 1,300 00
Erasmus Hall High School Annex..... 900 00
Manual Training High School Annex..... 4,000 00

CONTRACT NO. 4. FOR INSTALLING ELECTRIC BELL AND SPEAKING TUBE SYSTEMS IN PUBLIC SCHOOLS 16, 44, 48, 60, 71, 73, 75, 76, 96, 112, 119, 120, AND THE TRUANT SCHOOL, BOROUGH OF BROOKLYN.

The time of completion on each school is 50 working days. The amount of security required is as follows:

Public School 16..... \$300 00
Public School 44..... 400 00
Public School 48..... 100 00
Public School 60..... 200 00
Public School 71..... 200 00
Public School 73..... 300 00
Public School 75..... 300 00
Public School 76..... 300 00
Public School 96..... 100 00
Public School 112..... 100 00
Public School 119..... 100 00
Public School 120..... 100 00
Truant School..... 300 00

CONTRACT NO. 5. FOR FURNISHING SLATE BLACKBOARDS, ETC., TO THE VARIOUS SCHOOLS IN THE BOROUGH OF BROOKLYN.

The time of completion is 60 working days. The amount of security required is \$2,400.

The bidder will state the price of each item or any

article contained in the specifications or schedules herein contained or hereto annexed, by which the bids will be tested. On Contracts Nos. 3 and 4 the extensions must be made and footed up, as the bids will be read from the total for each school and awards made to the lowest bidder on each school. On Contracts Nos. 1, 2 and 5, the bids will be compared and the contract awarded at a lump or aggregate sum for each.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Superintendent at Estimating Room, Hall of the Board of Education, Park Avenue and Fifty-ninth street, Borough of Manhattan. Also at branch office No. 131 Livingston street, Borough of Brooklyn.

C. B. J. SNYDER,

Superintendent of School Buildings.

Dated August 5, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record." aug-15

DEPARTMENT OF EDUCATION, CORNER PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education until 12 o'clock noon on

FRIDAY, AUGUST 15, 1902.

Borough of The Bronx.

CONTRACT NO. 1. FOR SANITARY WORK AT MORRIS HIGH SCHOOL, ONE HUNDRED AND SIXTY-SIXTH STREET, BOSTON ROAD AND JACKSON AVENUE, BOROUGH OF THE BRONX.

The time of completion is 90 working days.

The amount of security required is \$13,000.

CONTRACT NO. 2. FOR INSTALLING ELECTRIC LIGHT WIRING, FIXTURES, ELECTRIC BELL SYSTEM, ETC., MORRIS HIGH SCHOOL, BOROUGH OF THE BRONX.

The time of completion is 90 working days.

The amount of security required is \$13,000.

Borough of Manhattan.

CONTRACT NO. 3. FOR THE GENERAL CONSTRUCTION OF NEW PUBLIC SCHOOL NO. 119, ON THE NORTH EASTERLY CORNER OF BROOMFIELD AND CANNON STREETS, BOROUGH OF MANHATTAN.

The time of completion is 120 working days.

The amount of security required is \$50,000.

CONTRACT NO. 4. FOR SANITARY WORK (CONTRACT NO. 3) AT NEW HIGH SCHOOL OF COMMERCE, SIXTY-FIFTH AND SIXTY-SIXTH STREETS, BETWEEN AMSTERDAM AVENUE AND BROADWAY, BOROUGH OF MANHATTAN.

The time of completion is 90 working days.

The amount of security required is \$9,000.

CONTRACT NO. 5. FOR ALTERATIONS, REPAIRS, ETC., IN PUBLIC SCHOOL 2, HENRY AND MADISON, NEAR PIKE STREET, AND PUBLIC SCHOOL 20, LIVINGSTON, FORTY-SETH AND ELDRIDGE STREETS, BOROUGH OF MANHATTAN.

The time of completion on each school is 55 working days.

The amount of security required is: Public School 2, \$500 on Public School 20, \$500 on

Borough of Queens.

CONTRACT NO. 6. FOR NEW FURNITURE, ETC., FOR PUBLIC SCHOOLS 1, 2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

The amount of security required is 30 per cent. of the amount of the bid.

The time of completion will be 60 working days on each school.

The bidder will state the price of each item or any article contained in the specifications or schedules herein contained or hereto annexed, by which the bids will be tested. On Contracts Nos. 5 and 6 the extensions must be made and footed up, as the bids will be read from the total for each school and awards made to the lowest bidder on each school. On Contracts Nos. 1, 2, 3 and 4 the bids will be compared and the contract awarded at a lump or aggregate sum for each.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Superintendent at Estimating Room, Hall of the Board of Education, Park Avenue and Fifty-ninth street, Borough of Manhattan. Also at branch office No. 69 Broadway, Flushing, Borough of Queens.

C. B. J. SNYDER,

Superintendent of School Buildings.

Dated August 5, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record." aug-15

DEPARTMENT OF EDUCATION, CORNER PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education, until 12 o'clock noon, on

THURSDAY, AUGUST 7, 1902.

Borough of Brooklyn.

CONTRACT NO. 1. FOR ALTERATIONS, REPAIRS, ETC., IN PUBLIC SCHOOLS 2, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972,

SIXTY-FOURTH, ONE HUNDRED AND SIXTY-SEVENTH, ONE HUNDRED AND SEVENTY-FIRST, ONE HUNDRED AND EIGHTY-SECOND, ONE HUNDRED AND EIGHTY-THIRD, ONE HUNDRED AND EIGHTY-SEVENTH AND TWO HUNDRED AND SIXTIETH STREETS; IN CLINTON, LORILLARD, MOUNT HOPE AND WILKES PLACES, AND IN KINGS BRIDGE ROAD AND BRONX AND PELHAM PARKWAY.

The time for the completion of the work and the full performance of the contract is 100 days.

The amount of security required is fifty thousand dollars.

The bidder will state the price of each item or article contained in the specifications or schedules, per pound, ton, dozen, gallon, foot, yard or other unit of measure, by which the bids will be tested.

The extensions must be made and footed up, as the bids will be read from the total.

The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms may be obtained and the plans and drawings may be seen at the office of the Department, Room 121.

ROBERT GRIER MONROE,
Commissioner.

Dated July 18, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

ju24,27

KINGS COUNTY SHERIFF.

SHERIFF'S OFFICE, KING'S COUNTY, COUNTY COURTHOUSE, JORALEMON STREET, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Sheriff of Kings County at the above office until 12 o'clock noon, on

THURSDAY, AUGUST 7, 1902.

Borough of Brooklyn.

No. 1. FOR FURNISHING AND DELIVERING GROCERIES, PROVISIONS, FORAGE, MILK, MEATS, FISH, POULTRY, VEGETABLES, PAINTS, OILS AND MISCELLANEOUS SUPPLIES.

The time for the delivery of the articles, materials and supplies and the performance of the contract is five months.

The amount of security required is fifty per cent. (50 per cent.) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total for each class and awards made to the lowest bidder on each class as indicated in the specifications.

The Sheriff reserves the right to reject all bids or estimates if he deems it to be for the interest of the City so to do.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed by the Sheriff.

Blank forms may be obtained at the office of the Sheriff, where any further information can be obtained.

NORMAN S. DIKE,
Sheriff of Kings County.

Dated July 23, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

ju25,27

BOROUGH OF QUEENS.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF QUEENS, THIRD FLOOR OF THE BOROUGH HALL, FIFTH STREET AND JACKSON AVENUE, LONG ISLAND CITY, BOROUGH OF QUEENS, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Queens, at the above office, until 12 o'clock a. m., on

THURSDAY, AUGUST 14, 1902.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING, GRADING AND REPAVING WITH ASPHALT PAVEMENT ON A RELAID BLOCK FOUNDATION THE ROADWAY OF VERNON AVENUE, FROM NORTH LINE OF FOURTH STREET TO NORTH LINE OF FIFTH AVENUE, FIRST WARD.

The time for the completion of the work and the full performance of the contract is sixty (60) days.

The amount of security required is eleven thousand dollars (\$11,000).

The Engineer's estimate of the quantities is as follows:

11,200 square yards of asphalt pavement, including binder course.

11,200 square yards of old stone pavement, to be relaid as a foundation.

5,500 linear feet of new bluestone curbstone, furnished and set.

500 linear feet of old bluestone curbstone, redressed, rejointed and reset.

No. 2. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING, GRADING AND REPAVING WITH ASPHALT PAVEMENT ON A RELAID BLOCK FOUNDATION THE ROADWAY OF STEINWAY AVENUE, FROM FLUSHING AVENUE TO NORTH LINE OF WINTHROP AVENUE, FIRST WARD.

The time for the completion of the work and the full performance of the contract is sixty (60) days.

The amount of security required is twelve thousand dollars (\$12,000).

The Engineer's estimate of the quantities is as follows:

11,300 square yards of asphalt pavement, including binder course.

11,300 square yards of old stone pavement, to be relaid as a foundation.

7,000 linear feet of new bluestone curbstone, furnished and set.

500 linear feet of old bluestone curbstone, redressed, rejointed and reset.

No. 3. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING, GRADING AND REPAVING WITH ASPHALT PAVEMENT ON A RELAID BLOCK FOUNDATION THE ROADWAY OF BORDEN AVENUE, FROM EAST LINE OF VERNON AVENUE TO EAST LINE OF EAST AVENUE, FIRST WARD.

The time for the completion of the work and

the full performance of the contract is forty (40) days.

The amount of security required is one thousand five hundred dollars (\$1,500).

The Engineer's estimate of the quantities is as follows:

1,750 square yards of asphalt pavement, including binder course.

1,750 square yards of old stone pavement, to be relaid as a foundation.

1,200 linear feet of new bluestone curbstone, furnished and set.

100 linear feet of old bluestone curbstone, redressed, rejointed and reset.

No. 4. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING, GRADING AND REPAVING WITH ASPHALT PAVEMENT ON A RELAID BLOCK FOUNDATION THE ROADWAY OF EAST AVENUE FROM JACKSON AVENUE TO BORDEN AVENUE, FIRST WARD.

The time for the completion of the work and the full performance of the contract is forty-five (45) days.

The amount of security required is three thousand (\$3,000) dollars.

The Engineer's estimate of the quantities is as follows:

3,000 square yards of asphalt pavement, including binder course.

3,000 square yards of old stone pavement to be relaid as a foundation.

1,500 linear feet of new bluestone curbstone, furnished and set.

100 linear feet of old bluestone curbstone, redressed, rejointed and reset.

No. 5. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING, GRADING AND REPAVING WITH ASPHALT PAVEMENT ON A RELAID BLOCK FOUNDATION THE ROADWAY OF THIRD STREET, FROM JACKSON AVENUE TO EAST AVENUE, FIRST WARD.

The time for the completion of the work and the full performance of the contract is thirty (30) days.

The amount of security required is one thousand five hundred (\$1,500) dollars.

The Engineer's estimate of the quantities is as follows:

1,700 square yards of asphalt pavement, including binder course.

1,700 square yards of old stone pavement to be relaid as a foundation.

800 linear feet of new bluestone curbstone, furnished and set.

200 linear feet of old bluestone curbstone, redressed, rejointed and reset.

No. 6. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING, GRADING AND REPAVING WITH ASPHALT PAVEMENT ON A RELAID BLOCK FOUNDATION THE ROADWAY OF FOURTH STREET, FROM JACKSON AVENUE TO EAST AVENUE, FIRST WARD.

The time for the completion of the work and the full performance of the contract is thirty (30) days.

The amount of security required is nine hundred (\$900) dollars.

The Engineer's estimate of the quantities is as follows:

850 square yards of asphalt pavement, including binder course.

850 square yards of old stone pavement, to be relaid as a foundation.

400 linear feet of new bluestone curbstone, furnished and set.

100 linear feet of old bluestone curbstone, redressed, rejointed and reset.

No. 7. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING, GRADING AND REPAVING WITH ASPHALT PAVEMENT ON A RELAID BLOCK FOUNDATION THE ROADWAY OF THE BOULEVARD FROM FULTON AVENUE TO NORTH CURB LINE OF ORCHARD STREET, FIRST WARD.

The time for the completion of the work and the full performance of the contract is sixty (60) days.

The amount of security required is seven thousand (\$7,000) dollars.

The Engineer's estimate of the quantities is as follows:

6,100 square yards of asphalt pavement, including binder course.

1,000 cubic yards of concrete.

2,500 linear feet of new bluestone curbstone, furnished and set.

No. 8. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING, GRADING AND REPAVING WITH ASPHALT PAVEMENT ON A RELAID BLOCK FOUNDATION THE ROADWAY OF THIRTEENTH STREET FROM SECOND AVENUE TO EIGHTH AVENUE AND ON A PREPARED MACADAM FOUNDATION BETWEEN SECOND AVENUE AND NORTH LINE OF FIRST AVENUE AND BETWEEN EIGHTH AVENUE AND SOUTH LINE OF NINTH AVENUE, COLLEGE POINT, FIRST WARD.

The time for the completion of the work and the full performance of the contract is sixty-five (65) days.

The amount of security required is ten thousand (\$10,000) dollars.

The Engineer's estimate of the quantities is as follows:

5,800 square yards of asphalt pavement, including binder course.

7,100 square yards of old stone pavement, to be relaid as a foundation.

1,700 square yards of prepared macadam foundation.

7,300 linear feet of new bluestone curbstone, furnished and set.

300 linear feet of old bluestone curbstone, redressed, rejointed and reset.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per yard or other unit of measure, by which the bids will be tested.

The extensions must be made and footed up, as the bids will be read from the total. The bids will be compared and the contract awarded at a lump or aggregate sum. The contracts must be bid for separately.

Blank forms may be obtained and plans and drawings may be seen at the office of the President.

JOSEPH CASSIDY,

President of the Borough of Queens.

Dated July 31, 1902.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF QUEENS, THIRD FLOOR OF THE BOROUGH HALL, FIFTH STREET AND JACKSON AVENUE, LONG ISLAND CITY, BOROUGH OF QUEENS, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Queens at the above office until 11 o'clock a. m., on

THURSDAY, AUGUST 14, 1902.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING, GRADING AND REPAVING WITH ASPHALT PAVEMENT ON A RELAID BLOCK FOUNDATION THE ROADWAY OF FIFTH STREET, FROM JACKSON AVENUE TO EAST AVENUE, FIRST WARD.

The time for the completion of the work and the full performance of the contract is thirty (30) days.

The amount of security required is one thousand five hundred (\$1,500) dollars.

The Engineer's estimate of the quantities is as follows:

1,750 square yards of asphalt pavement, including binder course.

1,750 square yards of old stone pavement, to be relaid as a foundation.

1,200 linear feet of new bluestone curbstone, furnished and set.

100 linear feet of old bluestone curbstone, redressed, rejointed and reset.

THURSDAY, AUGUST 7, 1902.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING, GRADING AND REPAVING WITH ASPHALT PAVEMENT ON A RELAID BLOCK FOUNDATION THE ROADWAY OF NINTH AVENUE, FROM BROADWAY TO GRAHAM AVENUE, FIRST WARD.

The time for the completion of the work and the full performance of the contract is forty (40) days.

The amount of security required is three thousand five hundred dollars (\$3,500).

The Engineer's estimate of the quantities is as follows:

3,350 square yards of new granite block pavement, including sand bed, laid with sand joints.

120 square feet of new bridge stone, furnished and laid.

1,900 linear feet of new curbstone, furnished and laid.

9,600 square feet of flagging (new).

3,600 cubic yards of grading (excavation).

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per yard or other unit of measure, by which the bids will be tested.

The extensions must be made and footed up, as the bids will be read from the total.

The bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms may be obtained and the plans and drawings may be seen at the office of the President.

JOSEPH CASSIDY,

President of the Borough of Queens.

Dated July 25, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

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BOROUGH OF BROOKLYN.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 15, MUNICIPAL DEPARTMENT BUILDING, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at the above office until 11 o'clock a. m., on

WEDNESDAY, AUGUST 13, 1902.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON BUFFALO AVENUE FROM ST. MARK'S AVENUE TO EASTERN PARKWAY.

The time for the completion of the work and the full performance of the contract is forty-five (45) working days.

The amount of security required is \$2,000.

The Engineer's estimate of the quantities is as follows:

4,231 cubic yards of excavation.

504 cubic yards of filling (not to be bid for).

3,351 linear feet of concrete curb.

15,955 square feet of cement sidewalk.

No. 2. FOR REGULATING, GRADING AND PAVING WITH GRANITE PAVEMENT ON A SAND FOUNDATION THE ROADWAY OF FIFTY-THIRD STREET FROM FIRST AVENUE TO SECOND AVENUE.

The time for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is \$3,000.

The Engineer's estimate of the quantities is as follows:

2,610 square yards of granite pavement with sand joints.

20 square yards of old stone pavement to be relaid.

1,440 linear feet of new bluestone curb.

1,690 cubic yards of excavation.

100 square feet of old flagstone relaid.

6,000 square feet of cement sidewalks.

No. 3. FOR REGULATING, GRADING, CURBING, GUTTERING AND LAYING SIDEWALKS ON KINGSTON AVENUE FROM DOUGLASS STREET TO EASTERN PARKWAY.

The time for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is \$3,000.

The Engineer's estimate of the quantities is as follows:

350 square yards of brick gutters.

1,030 linear feet of new bluestone curb.

1,220 cubic yards of excavation.

60 cubic yards of filling (not to be bid for).

5,160 square feet of cement sidewalks.

No. 4. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF ALBANY AVENUE FROM EASTERN PARKWAY TO LINCOLN ROAD.

The time for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is \$1,000.

The Engineer's estimate of the quantities is as follows:

10,530 square yards of asphalt pavement.

10 square yards of adjacent pavement.

1,730 cubic yards of concrete.

1,730 linear feet of new bluestone curb.

440 linear feet of old bluestone curb, to be reset.

3 noiseless manhole covers.

The time for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is \$4,000.

No. 5. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF COVERT STREET FROM BROADWAY TO EVERGREEN AVENUE.

The time for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is \$4,000.

The Engineer's estimate of the quantities is as follows:

4,110 square yards of asphalt pavement.

20 square yards of adjacent pavement.

710 cubic yards of concrete.

2,030 linear feet of new bluestone curb.

440 linear feet of old bluestone curb, to be reset.

3 noiseless manhole covers.

The time for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is \$4,000.

No. 6. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF ELLERY STREET FROM NOSTRAND AVENUE TO MARCY AVENUE.

The time for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is \$4,000.

The Engineer's estimate of the quantities is as follows:

3,370 square yards of asphalt pavement.

10 square yards of adjacent pavement.

570 cubic yards of concrete.

1,550 linear feet of new bluestone curb.

200 linear feet of old bluestone curb, to be reset.

7 noiseless manhole covers.

The time for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is \$4,000.

No. 7. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF PUTNAM AVENUE FROM NOSTRAND AVENUE 653 FEET EAST.

The time for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is \$4,000.

The Engineer's estimate of the quantities is as follows:

2,500 square yards of asphalt pavement.

10 square yards of adjacent pavement.

430 cubic yards of concrete.

1,140 linear feet of new bluestone curb.

7 noiseless manhole covers.

The time for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is \$4,000.

No. 8. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF HALSEY STREET FROM A POINT THREE HUNDRED FEET EAST OF NOSTRAND AVENUE TO SUMNER AVENUE.

The time for the completion of the work and the full performance of the contract is thirty (30) working days.

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200 linear feet of old bluestone curb, to be re-set.
6 noiseless manhole covers.
Time for the completion of the work and the full performance of the contract is thirty (30) working days.
The amount of security required is \$2,000.

No. 16. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF PATCHEN AVENUE FROM HANCOCK STREET TO MACON STREET AND FROM DECATOR STREET TO FULTON STREET.

The Engineer's estimate of the quantities is as follows:

6,430 square yards of asphalt pavement.
100 square yards of adjacent pavement.
1,070 cubic yards of concrete.
2,700 linear feet of new bluestone curb.
330 linear feet of old bluestone curb, to be re-set.

19 noiseless manhole covers.
Time for the completion of the work and the full performance of the contract is thirty-five (35) working days.
The amount of security required is \$3,000.

No. 17. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF THAMES STREET FROM MORGAN AVENUE TO KNICKERBOCKER AVENUE AND VANDERVOORT PLACE FROM THAMES STREET TO FLUSHING AVENUE.

The Engineer's estimate of the quantities is as follows:

2,300 square yards of asphalt pavement.
30 square yards of adjacent pavement.
410 cubic yards of concrete.
960 linear feet of new bluestone curb.
400 linear feet of old bluestone curb, to be re-set.

4 noiseless manhole covers.
Time for the completion of the work and the full performance of the contract is twenty-five (25) working days.
The amount of security required is \$2,000.

No. 18. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT AS A FOUNDATION, THE ROADWAY OF SECOND AVENUE FROM FIFTY-EIGHTH STREET TO FIFTY-NINTH STREET.

The Engineer's estimate of the quantities is as follows:

620 square yards of asphalt pavement.
300 square yards of old stone pavement, to be re-laid.
400 linear feet of new bluestone curb.
30 linear feet of old bluestone curb, to be re-set.

Time for the completion of the work and the full performance of the contract is ten (10) working days.
The amount of security required is \$300.

No. 19. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF SUTTON STREET FROM NASSAU AVENUE TO DRIGGS AVENUE.

The Engineer's estimate of the quantities is as follows:

2,130 square yards of asphalt pavement.
20 square yards of adjacent pavement.
370 cubic yards of concrete.
900 linear feet of new bluestone curb.
380 linear feet of old bluestone curb, to be re-set.

8 noiseless manhole covers.
Time for the completion of the work and the full performance of the contract is twenty (20) working days.
The amount of security required is \$2,000.

No. 20. FOR REGULATING, GRADING, CURBING AND LAYING SIDE WALKS ON FIFTY-SEVENTH STREET FROM SEVENTH AVENUE TO EIGHTH AVENUE.

The Engineer's estimate of the quantities is as follows:

334 square yards of brick gutters.
1,494 linear feet of new bluestone curb.
8,150 cubic yards of excavation.
220 cubic yards of filling, not to be bid for.
7,360 square feet of new flagging.
234 square feet of new bluestone bridging.

Time for the completion of the work and the full performance of the contract is forty-five (45) working days.
The amount of security required is \$2,000.

No. 21. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF EIGHTH AVENUE FROM FOURTH STREET TO EIGHTH STREET.

The Engineer's estimate of the quantities is as follows:

4,860 square yards of asphalt pavement.
90 square yards of adjacent pavement.
790 cubic yards of concrete.
1,530 linear feet of new bluestone curb.
470 linear feet of old bluestone curb, to be re-set.

11 noiseless manhole covers.
Time for the completion of the work and the full performance of the contract is thirty (30) working days.
The amount of security required is \$4,000.

No. 22. FOR REGULATING, GRADING AND PAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF EAST NINETEENTH STREET FROM TENNIS COURT TO BEVERLY ROAD.

The Engineer's estimate of the quantities is as follows:

5,100 square yards of asphalt pavement.
20 square yards of adjacent pavement.
850 cubic yards of concrete.
1,650 linear feet of new bluestone curb.
850 linear feet of old bluestone curb, to be re-set.

11 noiseless manhole covers.
Time for the completion of the work and the full performance of the contract is thirty (30) working days.
The amount of security required is \$4,000.

No. 23. FOR REGULATING AND REPAVING WITH GRANITE PAVEMENT ON A SAND FOUNDATION THE ROADWAY OF AVENUE U FROM EAST SEVENTEENTH STREET TO EAST NINETEENTH STREET.

The Engineer's estimate of the quantities is as follows:

1,138 square yards of granite pavement with sand joints.
120 linear feet of heading stones, furnished and set.

Time for the completion of the work and the full performance of the contract is ten (10) working days.
The amount of security required is \$1,000.

No. 24. FOR REGULATING AND REPAVING WITH GRANITE PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF VAN DYKE STREET FROM VAN BRUNT STREET TO RICHARDS STREET.

The Engineer's estimate of the quantities is as follows:

1,138 square yards of granite pavement with sand joints.
120 linear feet of heading stones, furnished and set.

The Engineer's estimate of the quantities is as follows:

1,690 square yards of granite pavement with tar and gravel joints.
20 square yards of old stone pavement, to be re-laid.

330 cubic yards of concrete.
870 linear feet of new bluestone curb.
150 linear feet of old bluestone curb, to be re-set.

90 square feet of new granite bridge stone.
120 square feet of old bridge stone, to be re-laid.
Time for the completion of the work and the full performance of the contract is twenty (20) working days.

The amount of security required is \$4,000.

No. 25. FOR REGULATING AND REPAVING WITH GRANITE PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF FLUSHING AVENUE FROM NAVY STREET TO WASHINGTON AVENUE.

The Engineer's estimate of the quantities is as follows:

4,460 square yards of granite pavement with tar and gravel joints.
4,460 square yards of old stone pavement to be re-laid.
1,790 cubic yards of concrete.

6,300 linear feet of new bluestone curb.
400 linear feet of old bluestone curb.
120 square feet of new granite bridge stone.
400 square feet of old bridge stone, to be re-laid.
Time for the completion of the work and the full performance of the contract is forty-five (45) working days.

The amount of security required is \$6,000.

No. 26. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF SKILLMAN STREET FROM LAFAYETTE AVENUE TO DE KALB AVENUE.

The Engineer's estimate of the quantities is as follows:

1,320 square yards of asphalt pavement.
15 square yards of adjacent pavement.
240 cubic yards of concrete.
890 linear feet of new bluestone curb.
100 linear feet of old bluestone curb, to be re-set.

5 noiseless manhole covers.
Time for the completion of the work and the full performance of the contract is twenty (20) working days.
The amount of security required is \$1,000.

The bidder will state the price of each item or class of work contained in the specifications or schedules per linear foot or square foot or cubic yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total.

The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Blank forms may be obtained and the plans and drawings may be seen at the office of the President of the Borough of Brooklyn, Room 15, Municipal Department Building.

J. EDW. SWANSTROM, President.

Dated July 29, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

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OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 15, MUNICIPAL DEPARTMENT BUILDING, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at the above office until 11 o'clock a. m., on

WEDNESDAY, AUGUST 13, 1902.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR THE CONSTRUCTION OF A BRIDGE ACROSS GERRETSON'S CREEK AT AVENUE U, BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:

7,000 cubic yards of earth filling.
71,136 feet B. M. yellow pine creosoted flooring.
5,280 feet B. M. yellow pine creosoted sheet piling.
18,388 feet B. M. spruce flooring in footwalks.
8,316 feet B. M. yellow pine timber in railings and posts.

101,333 feet B. M. long leaf yellow pine timber in caps and stringers.
309 yellow pine piles creosoted.
1,512 linear feet angle iron in wheel guards.

Time for the completion of the work and the full performance of the contract is ninety (90) working days.
The amount of security required is \$5,000.

The bidder will state the price of each item or class of work contained in the specifications or schedules per foot or linear foot or cubic yard or other unit of measure. The extensions must be made and footed up, as the bids will be read from the total.

Blank forms may be obtained and the plans and drawings may be seen at the office of the President of the Borough of Brooklyn, Room 15, Municipal Department Building.

J. EDW. SWANSTROM, President.

Dated July 29, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

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OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 15, MUNICIPAL DEPARTMENT BUILDING, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at the above office until 11 o'clock a. m., on

WEDNESDAY, AUGUST 13, 1902.

No. 1. FOR FURNISHING AND DELIVERING IN PLACE OF FOUR THOUSAND (4,000) ENAMELED STREET SIGNS IN THE BOROUGH OF BROOKLYN.

Time for the completion of the work and the full performance of the contract is by or before December 1, 1902.

The amount of security required is \$1,000.

No. 2. FOR FURNISHING AND ERECTING ONE THOUSAND (1,000) ILLUMINATED STREET SIGN BOXES IN THE BOROUGH OF BROOKLYN.

Time for the completion of the work and the full performance of the contract is by or before December 1, 1902.

The amount of security required is \$3,000.

No. 3. FOR FURNISHING AND DELIVERING 1,200 CUBIC YARDS OF BROKEN LIMESTONE, 500 CUBIC YARDS OF LIMESTONE SCREENINGS AND 100 CUBIC YARDS OF TRAP ROCK SCREENINGS.

Time for the delivery of the articles, materials and supplies and the performance of the contract is thirty (30) days.

The amount of security required is \$4,000.

The bidder will state the price of each item or class of work contained in the specifications or schedules per cubic yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total.

The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms may be obtained and the plans and drawings may be seen at the office of the President of the Borough of Brooklyn, Room 15, Municipal Department Building.

J. EDW. SWANSTROM, President.

Dated July 29, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

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OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 15, MUNICIPAL DEPARTMENT BUILDING, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn, at the above office until 11 o'clock a. m., on

WEDNESDAY, AUGUST 13, 1902.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING A SEWER IN SIXTH AVENUE, BETWEEN FORTY-NINTH STREET AND FIFTIETH STREET, BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantity and quality and the nature and extent, as near as possible, of the work required is as follows:

225 linear feet 12-inch vitrified stoneware pipe sewer, laid in concrete.
3 manholes.
1,600 feet B. M. foundation planking.

The time for the delivery of the articles, materials and supplies and the performance of the contract is fifteen working days.
The amount of security required is \$760.

No. 2. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING A SEWER IN FOURTH AVENUE, BETWEEN NINTH STREET AND ONE HUNDRED AND FIRST STREET, WITH TEMPORARY CONNECTION CROSSING ONE HUNDRETH STREET, BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantity and quality, and the nature and extent, as near as possible, of the work required is as follows:

1,150 linear feet 12-inch vitrified stoneware pipe sewer, laid in concrete.
14 manholes.
7,000 feet B. M. foundation and side planking.
52,000 feet B. M. sheeting and bracing.

The time for the delivery of the articles, materials and supplies and the performance of the contract is forty working days.
The amount of security required is \$1,300.

No. 3. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING A SEWER IN EIGHTIETH STREET, BETWEEN FOURTH AVENUE AND FIFTH AVENUE, BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantity and quality, and the nature and extent, as near as possible, of the work required is as follows:

45 linear feet 15 inch vitrified stoneware pipe sewer, laid in concrete.
750 linear feet 12 inch vitrified stoneware pipe sewer, laid in concrete.
8 manholes.

4,700 feet B. M. foundation and side planking.
The time for the delivery of the articles, materials and supplies and the performance of the contract is 30 working days.

The amount of security required is \$300.
The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total for each item (class) and awards made to the lowest bidder on each item (class); or the bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Blank forms may be obtained and the plans and drawings may be seen at the office of the President of the Borough of Brooklyn, Room 15, Municipal Building, Borough of Brooklyn.

J. EDWARD SWANSTROM, President.

Dated July 24, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

July30a13

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 15, MUNICIPAL DEPARTMENT BUILDING, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at the above office until 11 o'clock a. m., on

WEDNESDAY, AUGUST 6, 1902.

Borough of Brooklyn.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR FLAGGING SIDEWALKS IN VARIOUS PLACES AND ON VARIOUS STREETS IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:

24,808 square feet of bluestone flagging, furnished and laid.
Time for the completion of the work and the full performance of the contract is sixty (60) days.

The amount of security required is \$3,000.

No. 2. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR FLAGGING SIDEWALK IN VARIOUS PLACES AND ON VARIOUS STREETS IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:

23,964 square feet of bluestone flagging, furnished and laid.
Time for the completion of the work and the full performance of the contract is sixty (60) days.

The amount of security required is \$2,000.

No. 3. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR FLAGGING SIDEWALKS IN VARIOUS PLACES AND ON VARIOUS STREETS IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:

14,088 square feet of bluestone flagging, furnished and laid.
Time for the completion of the work and the full performance of the contract is forty-five (45) days.

The amount of security required is \$3,000.

14,088 square feet of bluestone flagging, furnished and laid.

Time for the completion of the work and the full performance of the contract is forty-five (45) days.

The amount of security required is \$3,000.

The bidder will state the price of each item or class of work contained in the specifications or schedules per square foot or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the President of the Borough of Brooklyn, Room 15, Municipal Department Building.

J. EDW. SWANSTROM, Commissioner.

Dated July 28, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

ju25a6

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 15, MUNICIPAL DEPARTMENT BUILDING, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn, at the above office until 11 o'clock a. m., on

WEDNESDAY, AUGUST 6, 1902.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REPAIRING AND MAINTAINING ASPHALT PAVEMENTS ON VARIOUS STREETS IN THE BOROUGH OF BROOKLYN, WHERE THE ORIGINAL GUARANTEES OF MAINTENANCE HAVE EXPIRED.

The Engineer's estimate of the quantities is as follows:

7,000 cubic feet of asphalt wearing surface, delivered and laid, in place of old wearing surface, destroyed or removed.
3,500 cubic feet of binder, delivered and laid.
500 square yards of standard asphalt pavement, consisting of 1 inch of binder and 2 inches of wearing surface.

50 cubic yards of Portland cement concrete.
Time for the completion of the work and the full performance of the contract is by or before January 1, 1903.

The amount of security required is \$3,000.

The bidder will state the price of each item or class of work contained in the specifications or schedules per cubic foot, square yard or cubic yard or other unit of measure.

The extensions must be made and footed up, as the bids will be read from the total.

The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms may be obtained and the plans and drawings may be seen at the office of the President of the Borough of Brooklyn, Room 15, Municipal Department Building.

J. EDWARD SWANSTROM, President.

Dated July 22, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

ju24a6

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 15, MUNICIPAL DEPARTMENT BUILDING, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at the above office until 11 o'clock a. m., on

WEDNESDAY, AUGUST 6, 1902.

1. For grading lots on the south side of Thirty-seventh street, between Fourth avenue and Fifth avenue, known as Lot No. 32, Block 701, Eighth Ward Map.

The Engineer's estimate of the quantities is as follows:

1,102 cubic yards of excavation.
Time for the completion of the work and the full performance of the contract is ten (10) working days.

The amount of security required is \$300.

2. For grading lots on the south side of Greene avenue, between Marcy avenue and Tompkins avenue, known as Lots Nos. 37 to 43, inclusive, Block 38, Twenty-third Ward Map.

The Engineer's estimate of the quantities is as follows:

7 cubic yards of excavation.
3,403 cubic yards of filling to be furnished.

Time for the completion of the work and the full performance of the contract is thirty-five (35) working days.

The amount of security required is \$300.

3. For grading lots on the south side of Sixtieth street, between Third avenue and Fourth avenue, and on the west side of Fourth avenue, between Sixtieth street and Sixty-first street, known as Lots Nos. 10 and 11, Block 951, Thirtieth Ward Map.

The Engineer's estimate of the quantities is as follows:

317 cubic yards of excavation.
5 cubic yards of filling, not to be bid for.

Time for the completion of the work and the full performance of the contract is ten (10) working days.

The amount of security required is \$50.

4. For grading lots on the south side of Eleventh street, between Eighth avenue and Prospect Park, West, and on the north side of Twelfth street, between Eighth avenue and Prospect Park, West, known as Lots Nos. 31, 32, 33 and 34, Block 1027, Twenty-second Ward Map.

The Engineer's estimate of the quantities is as follows:

659 cubic yards of excavation.
80 cubic yards of filling, not to be bid for.

Time for the completion of the work and the full performance of the contract is ten (10) working days.

The amount of security required is \$300.

5. For grading lots on the north side of Seventh street, between Eighth avenue and Prospect Park, West, known as Lots Nos. 40 and 41, Block 820, Twenty-second Ward Map.

The Engineer's estimate of the quantities is as follows:

2,332 cubic yards of excavation.
Time for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is \$600.

7. For grading lots on the north side of Chauncy street, between Rockaway avenue and Broadway, known as Lot No. 4, Block 113, Twenty-fifth Ward.

The Engineer's estimate of the quantities is as follows:

50 cubic yards of excavation.
2,131 cubic yards of filling, to be furnished.
Time for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is \$400.

8. For grading lots on the east side of Fifth avenue, between Forty-eighth street and Forty-ninth street, known as Lot No. 1, Block 775, Eighth Ward Map.

The Engineer's estimate of the quantities is as follows:

5,345 cubic yards of excavation.
Time for the completion of the work and the full performance of the contract is thirty-five (35) working days.

The amount of security required is \$1,000.

The bidder will state the price of each item or class of work contained in the specifications or schedules, per cubic yard, or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total.

The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Blank forms may be obtained and the plans and drawings may be seen at the office of the President of the Borough of Brooklyn, Room 15, Municipal Department Building.

J. EDW. SWANSTROM,
President.

Dated July 10, 1902.

ju1530.

See General Instructions to Bidders on the last page, last column of the "City Record."

THE CITY RECORD.

THE CITY RECORD IS PUBLISHED DAILY, Sundays and legal holidays excepted, at No. 2 City Hall, New York City. Annual subscription, \$9.30, postage prepaid.

PHILIP COWEN, Supervisor.

FIRE DEPARTMENT.

HEADQUARTERS FIRE DEPARTMENT, August 1, 1902.

CHARLES BUERMANN & COMPANY, Auctioneers, on behalf of the Fire Department of the City of New York, Boroughs of Manhattan and The Bronx, will offer for sale at public auction to the highest bidder for cash, at the hospital and training stables, Nos. 173-175 West Ninety-ninth street, Borough of Manhattan, on Saturday, August 9, 1902, at 11:45 a. m., eight (8) horses, no longer fit for service in this Department, and known as Nos. 428, 571, 595, 608, 772, 868, 1068 and 1202.

THOMAS STURGIS,
Fire Commissioner.

HEADQUARTERS FIRE DEPARTMENT OF THE CITY OF NEW YORK, Nos. 157 and 159 East Sixty-seventh street, Borough of Manhattan, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at the above office until 10 o'clock a. m. on

THURSDAY, AUGUST 7, 1902.

Borough of The Bronx.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED IN ERECTING AND COMPLETING A BUILDING ON THE WESTERLY SIDE OF WHITE PLAINS ROAD 300 FEET NORTHERLY FROM JULIANA STREET.

The time for the completion of the work and the full performance of the contract is one hundred and fifty (150) days.

The amount of security required is \$15,000.

Bids will be compared and the contract awarded at a lump or aggregate sum.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the Fire Department, Nos. 157 and 159 East sixty-seventh street, Manhattan.

THOMAS STURGIS,
President.

See General Instructions to Bidders on the last page, last column of the "City Record."

ju2637.

HEADQUARTERS FIRE DEPARTMENT OF THE CITY OF NEW YORK, Nos. 157 and 159 East Sixty-seventh street, Borough of Manhattan, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at the above office until 10 o'clock a. m. on

TUESDAY, AUGUST 5, 1902.

Boroughs of Manhattan and The Bronx. FOR FURNISHING AND DELIVERING FIVE HUNDRED (500) TONS OF ANTHRACITE COAL.

The time for the delivery of the articles, materials and supplies and the performance of the contract is ninety (90) days.

The amount of security required is eighteen hundred dollars (\$1,800).

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per ton, or other unit of measure, by which the bids will be tested. The bids will be read from the total for each item and awards made to the lowest bidder at a lump or aggregate sum.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the Department, Nos. 157 and 159 East Sixty-seventh street, Manhattan.

THOMAS STURGIS,
Commissioner.

Dated July 24, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

ju2425.

DEPARTMENT OF PARKS.

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, FIFTH AVENUE AND SIXTY-FOURTH STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above

office of the Department of Parks until 3 o'clock p. m. on

THURSDAY, AUGUST 14, 1902.

FOR IMPROVING EXISTING ROAD AND CONSTRUCTING A WALK IN THE SOUTHEASTERLY PORTION OF THE ZOOLOGICAL GARDENS, IN BRONX PARK, IN THE CITY OF NEW YORK.

The time for the completion of the work and the full performance of the contract is sixty consecutive working days.

The amount of security required is two thousand dollars.

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms and further information may be obtained at the office of the Department of Parks, the Borough of The Bronx, Zbrowski Mansion, Claremont Park.

WILLIAM R. WILLCOX,
JOHN E. EUSTIS,
RICHARD YOUNG,
Commissioners of Parks.

Dated August 1, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

ju214.

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, FIFTH AVENUE AND SIXTY-FOURTH STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above office of the Department of Parks until 3 o'clock p. m. on

THURSDAY, AUGUST 7, 1902.

FOR IMPROVING THE NORTHERN PORTION OF THE BOTANICAL GARDEN, IN BRONX PARK, IN THE CITY OF NEW YORK.

The time for the completion of the work and the full performance of the contract is two hundred consecutive working days.

The amount of security required is thirty thousand dollars.

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms and further information may be obtained at the office of the Department of Parks, the Borough of The Bronx, Zbrowski Mansion, Claremont Park.

WILLIAM R. WILLCOX,
JOHN E. EUSTIS,
RICHARD YOUNG,
Commissioners of Parks.

Dated July 25, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

ju2637.

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, FIFTH AVENUE AND SIXTY-FOURTH STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above office of the Department of Parks until 3 o'clock p. m. on

THURSDAY, AUGUST 7, 1902.

Borough of Brooklyn.

No. 1. FOR BUILDING GRANITE BOUNDARY WALL ON SOUTHERLY SIDE OF CONEY ISLAND CONCOURSE.

The time for the completion of the work and the full performance of the contract is sixty consecutive working days.

The amount of security required is five thousand dollars.

No. 2. FOR REPAVING WITH ASPHALT PAVEMENT ON OLD ASPHALT FOUNDATION THE NORTHERLY PORTION OF THE ROADWAY OF THE CONEY ISLAND CONCOURSE, FROM WEST FIFTH STREET TO OCEAN PARKWAY.

The time for the completion of the work and the full performance of the contract is twenty consecutive working days.

The amount of security required is five thousand dollars.

No. 3. FOR FURNISHING AND LAYING HEXAGONAL ASPHALT TILES ON CONEY ISLAND CONCOURSE.

The time for the completion of the work and the full performance of the contract is thirty consecutive working days.

The amount of security required is three thousand dollars.

The contracts must be bid for separately, and the bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Blank forms and further information may be obtained at the office of the Department of Parks, the Boroughs of Brooklyn and Queens, Litchfield Mansion, Prospect Park.

WILLIAM R. WILLCOX,
JOHN E. EUSTIS,
RICHARD YOUNG,
Commissioners of Parks.

Dated July 22, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

ju2637.

BOARD OF ELECTIONS.

BOARD OF ELECTIONS OF THE CITY OF NEW YORK, No. 301 Mott Street, Borough of Manhattan.

PUBLIC NOTICE IS HEREBY GIVEN THAT lists of persons recommended for appointment as election officers to serve in the respective boroughs for 1902, as submitted by the Democratic and Republican parties, are now open for inspection by the public in the branch office of each borough.

JOHN R. VOORHIS,
CHARLES B. PAGE,
JOHN MAGUIRE,
MICHAEL J. DADY,
Commissioners of Elections.

ju28, 27

MUNICIPAL CIVIL SERVICE COMMISSION.

PUBLIC NOTICE WILL BE GIVEN OF all competitive examinations at least two weeks in advance of the date upon which the receipt of applications for any scheduled examination will close.

Persons desiring application blanks may obtain the same by applying to the office of the Commission, either in person or in writing, stating in each case the position or positions for which they wish to apply.

When application is made for a position for which no examination is scheduled, the name of the applicant will be recorded and an application

blank sent, when a date for such examination is fixed.

All notices of examination will be posted and advertised. Such notices will state the scope of the examination, but for more general information application should be made at the office of the Commission.

S. WILLIAM BRISCOE,
Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 346 Broadway, City of New York, Monday, August 4, 1902.

PUBLIC NOTICE IS HEREBY GIVEN that open competitive examinations will be held for the following positions:

Inspector of Meters and Water Consumption—Monday, August 25, 1902, at 10 o'clock a. m.

The receipt of applications for this examination will close on Friday, August 22, at 4 o'clock p. m.

The scope of the examination will be as follows:

Subjects.	Weights.
Technical knowledge	6
Experience	2
Handwriting	1
Arithmetic	1

Candidates should be familiar with the laws and ordinances governing the use of water in the City of New York.

The salary attached to this position is \$1,000 per annum.

Electrical Engineer—Friday, August 29, 1902, at 10 o'clock a. m.

The receipt of applications for this examination will close on Monday, August 25, at 4 o'clock p. m.

The scope of the examination will be as follows:

Subjects.	Weights.
Technical knowledge	6
Experience	2
Handwriting	1
Arithmetic	1

Candidates who obtain a place upon the eligible list as a result of this examination will be certified to any department of the City employing persons requiring the experience and knowledge of an Electrical Engineer, at a salary of \$3,000, or more, per annum (16th grade).

There is at present a vacancy existing in the Fire Department under the title of "Superintendent of Telegraphs." The compensation attached to this position is \$3,000 per annum.

Applicants should possess the education of an Electrical Engineer, and should have had practical experience in the construction and management of fire alarm telegraph or telephone circuits, including the construction of subways, character of cables and telegraphic lines, planning and making of circuits, and of the extension of lines and electrical connections incident thereto; making estimates, specifications and calculations of the cost of construction of subways, dials, cables, etc., and should have had experience in handling men.

S. WILLIAM BRISCOE,
Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 346 Broadway, New York, July 31, 1902.

PUBLIC NOTICE IS HEREBY GIVEN that open competitive examinations will be held for the following positions:

INSPECTOR OF PIPE LAYING, PIPES AND HYDRANTS—Monday, August 18, at 10 o'clock a. m.

The receipt of applications for this position will close on Friday, August 15, at 4 o'clock p. m.

The scope of the examination will be as follows:

Subjects.	Weights.
Technical knowledge	6
Experience	2
Handwriting	1
Arithmetic	1

Candidates will be required to obtain 75 per cent. for the technical paper, otherwise their rating on the other papers will not be considered.

CLERK (temporary)—Wednesday, August 20, at 10 o'clock a. m.

The receipt of applications for this examination will close on Friday, August 15, at 4 o'clock p. m.

The scope of the examination will be as follows:

Subjects.	Weights.
Handwriting	30
Writing from dictation	45
English spelling	15
Arithmetic	20
Making a summary, or Letter-writing	20

Total of weights.....100
Candidates will be required to obtain an average of 80 per cent. in the examination, otherwise their names will not be placed upon the eligible list.

This examination is being held in order to supply Clerks to the Department of Finance, and Bureau of Elections; for the collection of taxes, and for the preparation of election rolls. The compensation is at the rate of about \$500 per annum, and the service from two weeks to thirty days.

INSPECTOR OF IRON AND STEEL—Friday, August 22, at 10 o'clock a. m.

The receipt of applications for this position will close on Monday, August 18, at 4 o'clock p. m.

The scope of the examination will be as follows:

Subjects.	Weights.
Technical knowledge	6
Experience	2
Handwriting	1
Arithmetic	1

Persons obtaining a place upon the eligible list will be certified to the Board of Rapid Transit Railroad Commission.

Persons who are willing to accept employment outside of the City of New York are particularly desired.

The compensation attached to this position is from \$1,200 to \$1,500 per annum.

S. WILLIAM BRISCOE,
Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 346 Broadway, New York, Friday, July 11, 1902.

PUBLIC NOTICE IS HEREBY GIVEN THAT open competitive examination will be held for the following position:

ARCHITECT—Friday, August 8, 1902, at 10 o'clock a. m.

The receipt of applications for this examination will close on Monday, August 4, at 4 o'clock p. m.

The scope of the examination will be as follows:

Subjects.	Weights.
Technical knowledge	8
Experience	2
Handwriting	1
Arithmetic	1

The salary attached to the position is \$3,500 per annum. A vacancy or present exists as an Assistant to the Superintendent of Buildings in the Fire Department.

S. WILLIAM BRISCOE,
Secretary.

POLICE DEPARTMENT.

POLICE DEPARTMENT—CITY OF NEW YORK, 1899.

OWNERS WANTED BY THE PROPERTY Clerk of the Police Department of The

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

CHAS. D. BLATCHFORD,
Property Clerk.

POLICE DEPARTMENT—CITY OF NEW YORK, BOROUGH OF BROOKLYN.

OWNERS WANTED BY THE DEPUTY Property Clerk of the Police Department of The City of New York—Office, Municipal Building, Borough of Brooklyn—for the following property, now in his custody, without claimants: Boots, rope, iron, lead, male and female clothing, boots, shoes, wine, blankets, diamonds, canned goods, liquors, etc.; also small amount of money taken from prisoners and found by Patrolmen of this Department.

CHARLES D. BLATCHFORD,
Deputy Property Clerk.

DEPARTMENT OF CORRECTION.

DEPARTMENT OF CORRECTION, 148 EAST TWENTY-THIRD STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m. on

TUESDAY, AUGUST 5, 1902.

No. 1. FOR FURNISHING AND DELIVERING DRUGS, MEDICINES, ETC.

The time for the delivery of the articles, materials and supplies and the performance of the contract is on or before December 31, 1902.

The amount of security required is fifty (50) per cent. of the amount of the bid or estimate.

Borough of Manhattan.

No. 2. FOR FURNISHING AND DELIVERING OILS, IRON, STEAM FITTINGS AND MISCELLANEOUS ARTICLES.

The time for the delivery of the articles, materials and supplies and the performance of the contract is ten (10) days.

The amount of security required is fifty (50) per cent. of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total for each item and awards made to the lowest bidder on each item.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the Department of Correction, the Borough of Manhattan, No. 148 East Twenty-third street.

THOMAS M. HYNES,
Commissioner President.

Dated July 16, 1902.

See General Instructions to Bidders on the last page, last column of the "City Record."

ju2,202

DEPARTMENT OF FINANCE.

NOTICE OF ASSESSMENTS FOR OPENING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1905 OF THE "Greater New York Charter," the Comptroller of The City of New York hereby gives public notice of the confirmation by the Supreme Court, and the entering in the Bureau for the Collection of Assessments and Arrears, of the assessments for OPENING AND ACQUIRING TITLE to the following-named streets and avenue in the BOROUGH OF THE BRONX.

TWENTY-THIRD AND TWENTY-FOURTH WARDS, SECTION 9.

EAST ONE HUNDRED AND SEVENTY-FIRST STREET—OPENING, from Sedgwick avenue to the United States bulkhead line of the Harlem River. Confirmed July 7, 1902; entered July 30, 1902. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of The Bronx, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at the point of intersection of the northerly line of Depot place with the United States pierhead and bulkhead line of the Harlem River; running thence, northerly, along said pierhead and bulkhead line to the northerly line of Washington Bridge; thence easterly along the northerly line of Undercliff avenue; thence southerly along the northerly line of Undercliff avenue and its southerly prolongation to the westerly line of Sedgwick avenue; thence southerly and southerly along the westerly and northerly line of Sedgwick avenue to the northerly line of Depot place; thence westerly along the northerly line of Depot place to the point, or place of beginning.

TWENTY-THIRD AND TWENTY-FOURTH WARDS, SECTIONS 9 AND 11.

CROWELL AVENUE—OPENING, from Inwood avenue to Macomb's Dam Road or Highwood avenue. Confirmed July 10, 1902; entered July 30, 1902. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of The Bronx, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point formed by the intersection of a line drawn parallel to the easterly side of Jerome avenue, and distant 10

Section 159 of this act provides " * * * "A
assessment shall become a lien upon the real

estate affected thereby ten days after its entry in the said record."

The above assessment is payable to the Collector of Assessments and Arrears, at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, corner of One Hundred and Seventy-seventh street and Third Avenue, Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before September 22, 1902, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when above assessment became a lien to the date of payment.

EDWARD M. GROUT,
Comptroller.

CITY OF NEW YORK, DEPARTMENT OF FINANCE,
COMPTROLLER'S OFFICE, July 24, 1902.

J225.47

NOTICE OF ASSESSMENTS FOR OPENING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1005 OF THE "Greater New York Charter," the Comptroller of The City of New York hereby gives public notice of the confirmation by the Supreme Court, and the entering in the Bureau for the Collection of Assessments and Arrears, of the assessment for OPENING AND ACQUIRING TITLE to the following named street in the BOROUGH OF MANHATTAN:

TWELFTH WARD, SECTION 8.

WEST ONE HUNDRED AND NINETIETH STREET—OPENING, between Eleventh Avenue and Wadsworth Avenue. Confirmed April 15, 1901; entered July 23, 1902. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of Manhattan, in The City of New York, which, taken together, are bounded and described as follows, viz.: Beginning at a point formed by the intersection of the westerly prolongation of the middle line of the block between West One Hundred and Eighty-eighth street and West One Hundred and Eighty-ninth street, with a line drawn parallel to and distant 100 feet westerly therefrom, running thence northerly along said parallel line and easterly along a line drawn parallel to and distant 100 feet northerly from the northerly side of Wadsworth Avenue and said parallel line prolonged easterly to the westerly side of Eleventh Avenue; thence easterly along a line drawn at a right angle to that part of Eleventh Avenue lying southwardly from Wadsworth Avenue to its intersection with a line drawn parallel to the easterly side of Eleventh Avenue and distant 100 feet easterly therefrom; thence southerly along said parallel line to its intersection with a line drawn parallel to the northerly side of West One Hundred and Ninety-ninth street, and distant 100 feet northerly therefrom; thence easterly along said parallel line and its prolongation easterly to its intersection with a line drawn parallel to the easterly side of Amsterdam Avenue, and distant 100 feet easterly therefrom; thence southerly along said parallel line to its intersection with the easterly prolongation of the middle line of the block between West One Hundred and Eighty-eighth street and West One Hundred and Eighty-ninth street; thence westerly along said easterly prolongation and middle line of the block and its prolongation westerly to the point of place of beginning.

The above-entitled assessment was entered on the date hereinafore given in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents. Unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessment, interest will be collected thereon, as provided in section 1006 of the Greater New York Charter.

Said section provides that "if any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides: "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record."

The above assessment is payable to the Collector of Assessments and Arrears, at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, Room No. 85, No. 280 Broadway, Borough of Manhattan, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before September 22, 1902, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when above assessment became a lien to the date of payment.

EDWARD M. GROUT,
Comptroller.

CITY OF NEW YORK, DEPARTMENT OF FINANCE,
COMPTROLLER'S OFFICE, July 24, 1902.

J225.47

CHANGE OF GRADE DAMAGE COMMISSION.

PURSUANT TO THE PROVISIONS OF chapter 537 of the Laws of 1893, entitled "An act providing for ascertaining and paying the amount of damages to lands and buildings 'suffered by reason of change of grade of streets or avenues, made pursuant to chapter 721 of the Laws of 1887, providing for the dedication of railroad tracks in the Twenty-third and Twenty-fourth Wards, in The City of New York or otherwise,' and the acts amendatory thereof and supplemental thereto, notice is hereby given that public meetings of the Commissioners appointed pursuant to said acts will be held at Room 8, Stewart Building, No. 280 Broadway, Borough of Manhattan, in The City of New York, on Tuesdays and Thursdays of each week, at 2 o'clock p. m., until further notice.

WILLIAM D. LEONARD,
JAMES R. BURNET,
JOHN S. WISE, JR.,
Commissioners.

LANE McLOUGHLIN,
Clerk.

OFFICIAL PAPERS.

"New York Times," "New York Sun," "New York Daily News," "Commercial Advertiser," "New Yorker Zeitung," "Ladies Weekly,"
PHILIP COWEN, Supervisor.

July 1, 1902.

COMMISSIONERS OF THE SINKING FUND.

PUBLIC NOTICE.

To all whom it may concern: Notice is hereby given that pursuant to and in accordance with the provisions of section 205 of the Greater New York Charter, the Commissioners of the Sinking Fund have, by resolution, adopted June 23, 1902, assigned and designated the second floor of the building known as "Avon Hall," Nos. 1277, 1279 and 1281 Bedford Avenue, Borough of Brooklyn, as the place where the Second District Municipal Court of the Borough of Brooklyn, shall be held on and after the 1st day of November, 1902, in place of the present location at Nos. 794 and 796 Broadway.

By order of the Commissioners of the Sinking Fund,
DEPARTMENT OF FINANCE, CITY OF NEW YORK,
COMPTROLLER'S OFFICE, 280 Broadway, July 28, 1902.

EDWARD M. GROUT,
Comptroller,
131.418

PUBLIC NOTICE.

To all persons who may be interested as owners, lessees or otherwise in the water front property lying between Eighteenth street and Twenty-third street which is to be acquired by the City for the improvement of the water front thereat, in accordance with the plans of the Department of Docks.

Whereas, The Board of Estimate and Apportionment has, under date of June 20, 1902, authorized the Corporation Counsel to initiate proceedings for the acquisition of certain property for the improvement of the water front on the North river, between the northerly side of Eighteenth street and the southerly side of Twenty-third street; and Whereas, Pursuant to the provisions of chapter 511 of the Laws of 1902, this Board is given power to direct by resolution that the title to the said lands, etc., shall vest in The City of New York at such time after the filing of oaths of Commissioners of Estimate and Apportionment, to be appointed by the Supreme Court, as may be deemed expedient; and

Whereas, It is the sense of the Commissioners of the Sinking Fund that the title to the said lands, etc., should vest as soon as practicable after the appointment of said Commissioners, in order that the improvement of the water front may proceed at the earliest possible time; therefore be it

Resolved, That the property owners are hereby given notice that it is the intention of the Commissioners of the Sinking Fund to vest title in the City of New York for the said property thirty days after the filing of oaths of the Commissioners of Estimate and Apportionment, to be appointed by the Supreme Court; and be it further

Resolved, That this resolution be published in the "City Record" for thirty days.

By order of the Commissioners of the Sinking Fund, pursuant to resolution adopted July 1, 1902.

EDWARD M. GROUT,
Comptroller.

DEPARTMENT OF FINANCE—COMPTROLLER'S OFFICE, July 21, 1902.

J227.225

SUPREME COURT.

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title to the lands, tenements and hereditaments required for the purpose of opening LINCOLN AVENUE from Atlantic Avenue to Conduit Avenue, in the Twenty-sixth Ward, in the Borough of Brooklyn, in The City of New York.

NOTICE IS HEREBY GIVEN THAT AN application will be made to the Supreme Court of the State of New York, at a Special Term of said Court for the hearing of motions, to be held in and for the County of Kings, in the County Courthouse, in the Borough of Brooklyn, in The City of New York, on the 15th day of August, 1902, at the opening of court on that day, or as soon thereafter as counsel can be heard, for the appointment of Commissioners of Estimate and Apportionment in the above-entitled proceeding.

The nature and the extent of the improvement hereby intended is the acquisition of title by The City of New York for the use of the public to all the lands and premises, with the buildings thereon and appurtenances thereto belonging, required for the opening of a street known as Lincoln Avenue, from Atlantic Avenue to Conduit Avenue, in the Twenty-sixth Ward, in the Borough of Brooklyn, in The City of New York.

The lands required for the purpose of opening Lincoln Avenue as aforesaid are shown on a map known as the General Map or Plan of the Towns of New Utrecht, Flatbush, Gravesend, Flatlands and New Lots, in the County of Kings, prepared by the Town Survey Commissioners pursuant to an act of the Legislature passed May 1, 1869, and the several acts amendatory thereof, and filed in the office of the Register of the County of Kings, in the year 1874, now incorporated with and forming part of the map of The City of New York, and also shown on a map of that portion of said street affected by these proceedings made by the Topographical Division of the Bureau of Highways of the Borough of Brooklyn and signed by George W. Tillson, Chief Engineer, and dated July 26, 1902, which map was filed in the office of the Corporation Counsel of The City of New York, in the Borough of Brooklyn, on the 31st day of July, 1902.

Dated Borough of Brooklyn, City of New York, the 1st day of August, 1902.

GEORGE L. RIVES,
Corporation Counsel.

25-15 Borough Hall, Brooklyn, N. Y.

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title to the lands, tenements and hereditaments required for the purpose of opening HEMLOCK STREET from Jamaica Avenue to Atlantic Avenue, in the Twenty-sixth Ward, in the Borough of Brooklyn, in The City of New York.

NOTICE IS HEREBY GIVEN THAT AN application will be made to the Supreme Court of the State of New York, at a Special Term of said Court for the hearing of motions, to be held in and for the County of Kings, in the County Courthouse, in the Borough of Brooklyn, in The City of New York, on the 15th day of August, 1902, at the opening of court on that day, or as soon thereafter as counsel can be heard, for the appointment of Commissioners of Estimate and Apportionment in the above-entitled proceeding.

The nature and the extent of the improvement hereby intended is the acquisition of title by The City of New York for the use of the public to all the lands and premises, with the buildings thereon and appurtenances thereto belonging, required for the opening of a street known as Hemlock Street, from Jamaica Avenue to Atlantic Avenue, in the

Twenty-sixth Ward, in the Borough of Brooklyn, in The City of New York.

The lands required for the purpose of opening Hemlock Street as aforesaid are shown on a map known as the General Map or Plan of the Towns of New Utrecht, Flatbush, Gravesend, Flatlands and New Lots, in the County of Kings, prepared by the Town Survey Commissioners pursuant to an act of the Legislature passed May 1, 1869, and the several acts amendatory thereof, and filed in the office of the Register of the County of Kings, in the year 1874, now incorporated with and forming part of the map of The City of New York, and also shown on a map of that portion of said street affected by these proceedings made by the Topographical Division of the Bureau of Highways of the Borough of Brooklyn and signed by George W. Tillson, Chief Engineer, and dated July 26, 1902, which map was filed in the office of the Corporation Counsel of The City of New York, in the Borough of Brooklyn, on the 31st day of July, 1902.

Dated Borough of Brooklyn, City of New York, the 1st day of August, 1902.

GEORGE L. RIVES,
Corporation Counsel.

25-15 Borough Hall, Brooklyn, N. Y.

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title to the lands, tenements and hereditaments required for the purpose of opening GATLING PLACE from Eighty-sixth street to Ninety-second street, in the Thirtieth Ward, in the Borough of Brooklyn, in The City of New York.

NOTICE IS HEREBY GIVEN THAT AN application will be made to the Supreme Court of the State of New York, at a Special Term of said Court for the hearing of motions, to be held in and for the County of Kings, in the County Courthouse, in the Borough of Brooklyn, in The City of New York, on the 15th day of August, 1902, at the opening of court on that day, or as soon thereafter as counsel can be heard, for the appointment of Commissioners of Estimate and Apportionment in the above-entitled proceeding.

The nature and the extent of the improvement hereby intended is the acquisition of title by The City of New York for the use of the public to all the lands and premises, with the buildings thereon and appurtenances thereto belonging, required for the opening of a street known as Gatling Place, from Eighty-sixth street to Ninety-second street, in the Thirtieth Ward, in the Borough of Brooklyn, in The City of New York.

The lands required for the purpose of opening Gatling Place as aforesaid are shown on a map known as the General Map or Plan of the Towns of New Utrecht, Flatbush, Gravesend, Flatlands and New Lots, in the County of Kings, prepared by the Town Survey Commissioners pursuant to an act of the Legislature passed May 1, 1869, and the several acts amendatory thereof, and filed in the office of the Register of the County of Kings, in the year 1874, now incorporated with and forming part of the map of The City of New York, and also shown on a map of that portion of said street affected by these proceedings made by the Topographical Division of the Bureau of Highways of the Borough of Brooklyn and signed by George W. Tillson, Chief Engineer, and dated July 26, 1902, which map was filed in the office of the Corporation Counsel of The City of New York, in the Borough of Brooklyn, on the 31st day of July, 1902.

Dated Borough of Brooklyn, City of New York, the 1st day of August, 1902.

GEORGE L. RIVES,
Corporation Counsel.

25-15 Borough Hall, Brooklyn, N. Y.

FIRST JUDICIAL DEPARTMENT.

In the Matter of the Application of The Mayor, Aldermen and Commonalty of The City of New York, by and through the Counsel to the Corporation, to acquire title to certain lands in the Twelfth Ward of The City of New York, as and for a public park, to be designated and known as St. Nicholas Park, under and pursuant to the provisions of Chapter 366 of the Laws of 1894.

NOTICE IS HEREBY GIVEN THAT THE Fourth Separate Report of the Commissioners of Appraisal, duly appointed in the above-entitled proceeding, which said report is signed by John H. Judge and Thomas C. T. Crain, two of said Commissioners of Appraisal, and is dated the 20th day of May, 1902, was filed in the office of the Clerk of the County of New York on the 21st of May, 1902.

Notice is further given that the said report includes and affects the parcels therein designated and shown upon the map of damage of said Commissioners of Appraisal by the parcel Nos. 24, 6, 7, 7 1/2, 7 1/2, 10, 10 1/2, 10, 17, 24, 35, 40, 40 1/2, 43, 40, 48, 49, 50 and 51 1/2.

Notice is further given that said report will be presented for confirmation to the Supreme Court at a Special Term thereof, Part I., to be held in the First Judicial Department, at the County Court House, in The City of New York, Borough of Manhattan, on the 4th day of September, 1902, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, August 9, 1902.
GEORGE L. RIVES,
Corporation Counsel.

No. 2 TRYON ROW, BOROUGH OF MANHATTAN,
NEW YORK CITY.

6284

In the matter of the application of The City of New York, acting by and through the Board of Docks, relative to acquiring right and title to and possession of the uplands, lands, wharf property, wharfage rights, terms, easements, emoluments and privileges of and to the uplands and lands necessary to be taken for the improvement of the water front of The City of New York on the North river, between Little West Twelfth street and Thirteenth street, and the easterly side of the marginal street, wharf or place adopted by the Board of Docks and approved by the Commissioners of the Sinking Fund, and the Hudson river, pursuant to the plan heretofore adopted by the Board of Docks and approved by the Commissioners of the Sinking Fund.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding, and to the owner or owners, occupant or occupants, of all houses and lots and improved and unimproved lands or wharf property, and all persons interested therein, or in any rights, privileges or interests pertaining thereto, affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment and that all persons interested in this proceeding or in any of the uplands, lands, lands under water, premises, buildings, tenements, hereditaments and wharf property affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us, at our office, Room No. 401, No. 258

Broadway, in the Borough of Manhattan, in The City of New York, on or before the 19th day of August, 1902, and that we, the said Commissioners, will hear parties so objecting, and for that purpose will be in attendance at our said office on the 4th day of September, 1902, at 2 o'clock in the afternoon of that day.

Second—That the abstract of our said estimate and assessment, together with our Damage Maps, and also all the affidavits, estimates, proofs and other documents used by us in making our report, have been deposited in the Bureau of Street Openings, in the Law Department of The City of New York, at the office of said Bureau, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in said City, there to remain until the 30th day of August, 1902.

Third—That our report herein will be presented to the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part I., to be held in the County Courthouse, in the Borough of Manhattan, in The City of New York, on the 25th day of September, 1902, at the opening of the court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated Borough of Manhattan, New York City, July 29, 1902.

HENRY THOMPSON, Chairman;
EMANUEL BLUMENSTIEL,
WILLIAM J. CARROLL,
Commissioners.

JOSEPH M. SCHESCK, Clerk.

j30.215

In the matter of the application of The City of New York, acting by and through the Board of Docks, relative to acquiring right and title to and possession of the wharfage, rights, terms, easements, emoluments and privileges appurtenant to Pier No. 12, East river, not now owned by The City of New York, and all right, title and interest in and to said pier, or any portion thereof not now owned by The City of New York, necessary to be taken for the improvement of the water front of The City of New York, on the East river, at or near Old Slip, pursuant to the plan heretofore adopted by the said Department of Docks and approved by the Commissioners of the Sinking Fund.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses, together with a statement of the amounts previously taxed, to whom the same were payable and the date of such taxation, incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at a Special Term thereof, Part I., to be held in and for the City and County of New York, at the County Courthouse, in The City of New York, on the 11th day of August, 1902, at 10.30 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon, and that said bill of costs, charges and expenses, together with said statement, has been deposited in the office of the Clerk of the County of New York, there to remain for and during the space of ten days, as required by the provisions of section 909 of the Greater New York Charter, as amended by chapter 466 of the Laws of 1901.

Dated New York, July 29, 1902.
P. F. TRAINOR,
Chairman;
HENRY THOMPSON,
JOHN McGRATH,
Commissioners.

JOSEPH M. SCHESCK, Clerk.

j30.29

PROPOSALS FOR BIDS AND ESTIMATES FOR THE CITY OF NEW YORK.

NOTICES TO CONTRACTORS.

GENERAL INSTRUCTIONS TO BIDDERS.

The person or persons making a bid or estimate for any services, work, materials or supplies for The City of New York, or for any of its departments, bureaus or offices, shall furnish the same in a sealed envelope indorsed with the title of the supplies, materials, work or services for which the bid or estimate is made, with his or their name or names and the date of presentation to the President or Board or to the head of the department at his or its office, on or before the date and hour named in the advertisement for the same, at which time and place the estimates received will be publicly opened by the President or Board or head of said department, and read, and the award of the contract made according to law as soon thereafter as practicable.

Each bid or estimate shall contain the name and place of residence of the person making the same, the names of all persons interested with him therein, and, if no other person be so interested, it shall distinctly state that fact; also, that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud, and that no member of the board of aldermen, head of a department, chief of a bureau, deputy thereof, or clerk thereof, or other officer of The City of New York is, shall be or become interested, directly or indirectly, as contracting party, partner, stockholder, surety or otherwise, in or in the performance of the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate that the several matters stated herein are in all respects true.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in The City of New York, or of a guaranty or surety company duly authorized by law to act as surety, and shall contain the matters set forth in the blank forms mentioned below. No bid or estimate will be considered unless accompanied by a certified check upon one of the State or National banks of The City of New York, drawn to the order of the Comptroller, or money to the amount of five per centum of the amount of the bond required, as provided in section 428 of the Greater New York Charter.

For particulars as to the quantity and quality of the work, materials, or the nature and extent of the work, contracts, plans, etc., on file in the said office of the President, Board or Department.

No bid shall be accepted from or contract awarded to any person who is in arrears to The City of New York upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to The City.

The contracts must be bid for separately. The right is reserved in each case to reject all bids or estimates if it is deemed to be for the interest of The City so to do.

Bidders will write out the amount of their bids or estimates in addition to inserting the same in figures.

Bidders are requested to make their bids or estimates upon the blank forms prepared and furnished by The City, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application thereto at the office of the department for which the work is to be done. Plans and drawings of construction work may also be seen there.