

THE CITY RECORD.

VOL. XXXI.

NEW YORK, TUESDAY, SEPTEMBER 22, 1903.

NUMBER 9,237.

THE CITY RECORD,

OFFICIAL JOURNAL OF THE CITY OF NEW YORK.

Published Under Authority of Section 1526, Greater New York Charter, by the

BOARD OF CITY RECORD.

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Published daily, except legal holidays.

Subscription, \$9.30 per year, exclusive of supplements. Three cents per copy.

SUPPLEMENTS: Civil List (containing names, salaries, etc., of the city employees), 25 cents; Canvass, 10 cents; Registry Lists, 5 cents each Assembly District; Law Department and Finance Department supplements, 10 cents each.

Published at Room 2, City Hall (north side), New York City.

Entered as Second-class Matter, Postoffice at New York City.

TABLE OF CONTENTS.

Assessors, Board of—		Municipal Civil Service Commission—	
Public Notices.....	7948	Notices of competitive examinations.....	7954
Bellevue and Allied Hospitals Board of—		Notice to Contractors.....	7956
Proposals.....	7951	Official Borough Papers.....	7953
Board Meetings.....	7953	Official Directory.....	7945
Bridges, Department of—		Official Papers.....	7947
Proposals.....	7947	Parks, Department of—	
Brooklyn, Borough of—		Proposals.....	7947
Minutes of Local Boards.....	7944	Police Department—	
Proposals.....	7953	Auction Sale.....	7947
Changes in Departments.....	7944	Minutes of Meeting of September 14,	
City Clerk's Notice.....	7945	1903.....	7943
Correction, Department of—		Owners Wanted for Lost Property.....	7947
Proposals.....	7951	Public Notice.....	7947
Docks and Ferries, Department of—		Public Charities, Department of—	
Auction Sale.....	7952	Proposals.....	7951
Proposals.....	7953	Street Cleaning, Department of—	
Education, Department of—		Ashes, etc., for filling in lands.....	7947
Proposals.....	7951	Auction Sale.....	7947
Estimate and Apportionment, Board of—		Proposals.....	7947
Public Notices.....	7948	Transactions for week ending August	
Finance, Department of—		9, 1903.....	7937
Interest on City Bonds and Stock.....	7948	Supreme Court—	
Notices to Property Owners.....	7948	Acquiring title to lands, etc.....	7954
Transactions for week ending July 18, 1903	7938	The Bronx, Borough of—	
Manhattan, Borough of—		Proposals.....	7951
Proposals.....	7951	Water Supply, Gas and Electricity—	
		Proposals.....	7948
		Report for Year 1902.....	7925

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY,
COMMISSIONER'S OFFICE, NOS. 13-21 PARK ROW,
NEW YORK, August 1, 1903.

Hon. SETH LOW, Mayor:

SIR—In compliance with section 457 of the City Charter I submit report of the transactions of the Department of Water Supply, Gas and Electricity for the year 1902.

The Charter of 1897 provided for a Department of Water Supply, with uniform jurisdiction over the five boroughs of the Greater City, but limited to the control of a single utility. The revised Charter, which went into effect January 1, 1902, gave to one department control of the water supply, the lighting of the City and general supervision and cognizance of the use and transmission of gas, electricity, pneumatic power and steam, through, over and under the streets, as well as of the construction of the mains, conduits, conductors and subways. (Laws of 1901, chapter 466, sections 469 and 528.)

Consequently when my predecessor, the Hon. J. Hampden Dougherty, assumed office on January 1, 1902, as Commissioner of Water Supply, Gas and Electricity, he found himself at the head of a new department, formed by adding to a separate department bureaus of other departments. The diversity of the interests and magnitude of the responsibilities thus thrown together had not been fully appreciated by the revisers of the Charter. Additional positions and branch offices in all the boroughs had to be created by legislation before efficient organization could be effected.

Mr. Dougherty resigned on July 15, 1902, and I succeeded him on that date. During the six months of his incumbency he organized the Department, putting each borough and bureau upon an intelligent working basis, and also planned and inaugurated much new work, and planned constructions and extensions which are now in process of development.

I divide this report according to boroughs. In making the division, however, I consider together the present boroughs of Manhattan and The Bronx, which since 1873, when the towns of Morrisania, West Farms and Kingsbridge were annexed to the then City of New York, have been and still are treated as a unit in regard to the administration of and appropriations for water supply and public lighting. With this exception the water system in each borough is at present independent of the water supply of every other borough, and separate appropriations for public lighting are also made for each borough. The electrical installation differs in different boroughs, and subsurface structures, including mains, conduits and subways, can best be considered from a local standpoint.

PUBLIC WATER SUPPLY.

BOROUGH OF MANHATTAN AND THE BRONX.

Source of Supply.

The building of the Cornell Dam, the great constructive work now in progress in the Croton Watershed, and of the bridges and highways incident to the enlargement of the present Croton Lake by this dam, is in charge of the Aqueduct Commission. The Department of Water Supply, Gas and Electricity, however, is responsible for the maintenance and repairs of the reservoirs, dams and gatehouses already completed, for the care of the lands owned by the City surrounding the reservoirs and extending along the branches of the Croton river, as well as for the conservation of the water supply and its protection from pollution. The storage capacity of all the reservoirs now upon the Croton Watershed amounts to forty-one billion gallons, which is supplemented by storage reservoirs of three and one-half billions capacity for the Bronx and Byram watersheds. The average rainfall upon the three hundred and thirty-eight square miles of the Croton Watershed was fifty-three and one-half inches for the year 1902, which is five inches higher than the average yearly rainfall for the thirty-five years preceding. Owing to the fact that the rainfall was above the normal and distributed throughout the year, at no time was the draft upon the storage reservoirs sufficient to threaten a curtailment of the full supply. The gauges at the gatehouse at Croton Lake indicated that there was withdrawn for consumption during the past year an average of 262,000,000 gallons a day. From the two small contiguous watersheds of the Byram (eight square miles) and the Bronx (fourteen square miles) an average of eighteen millions a day was taken, making the total average daily supply for Manhattan and The Bronx 280,000,000 gallons, an increased consumption of 8,000,000 gallons a day over the year 1901. The surplus flow over the Croton Dam during and immediately following heavy rains

amounted to over one hundred billion gallons, or about as much as was actually drawn for consumption.

In March heavy floods carried away the dashboards upon the dam at the East Branch Reservoir, doing damage to the coping. The floods also seriously damaged the spillway at the same point. The dam has been repaired and the reconstruction of the spillway will shortly be under way; the ordinary repairs to gatehouses, etc., have been kept up, and the City property generally has been maintained in good condition.

Sanitary Protection.

As the population increases in the territory drained by the Croton river, protection of the water from pollution requires each year greater watchfulness and care. The scope of the work undertaken at Mount Prospect Laboratory, Brooklyn, which was heretofore limited to the analysis of Long Island waters, has been extended to cover the public supply for all boroughs, and samples of water are now regularly sent from all the Croton reservoirs and lakes and from the distributing mains in Manhattan and The Bronx to that laboratory for examination and report. In addition a branch laboratory is being equipped at Katonah, Westchester County, where samples of Croton water may be handled more rapidly and more frequent analyses made.

In October and November the Chief Engineer made a careful sanitary inspection of the entire watershed, and during much of the time was accompanied by Dr. Lederle, Commissioner of Health. Their inspection did not reveal to them conditions which could be considered alarming, but a systematic and methodical patrol of the watershed was arranged for. This patrol force has been organized under the charge of an Assistant Engineer, and sanitary maps are being prepared of all the principal settlements and towns from the drainage of which the City water can in any way be contaminated. Upon these maps are also plotted all nuisances, and accompanying records are kept of the dates when notices to abate are forwarded and when the nuisances are abated and other data.

In carrying out the policy previously adopted for acquiring lands necessary for the protection of the supply two proceedings were inaugurated during the year—one for the condemnation of lands on the Muscote Branch and part of the West Branch of the Croton river, and a second proceeding for the condemnation of land on the upper waters of the Bronx and Byram rivers. Additional lands are needed for proper protection, and maps will be duly submitted, and an application made for the necessary funds for the purchase.

As soon as the necessary data can be collected I shall make a special report to you of the sanitary condition of the watershed, with recommendations as to the proper disposal of the sewage and drainage of the various towns and villages, as to the lands which are necessary to be condemned or purchased, and I may also suggest, in some instances, the installation of filter beds as more economical than the purchase of expensive properties.

Much extra work has also been undertaken in trimming the brush around the reservoirs, clearing the banks of streams and cleaning out swampy lands where water becomes stagnant. This is done with a view to minimizing the deposit of vegetable matter which renders the water unpleasant to the taste, if not actually harmful to health. It should be remembered in this connection that the territory to be covered is very extensive; that the land belonging to the City, exclusive of reservoir sites, is nearly twenty thousand acres, and that the appropriation for maintenance permits a force of only from thirty to sixty men, according to the time of year, about half of which force is employed steadily.

The Aqueducts.

On account of changes incidental to the construction of the Jerome Park Reservoir, the old aqueduct has been practically out of use for some years. In October of last year a temporary connection was made for the supply of the lower portions of The Bronx, north of the Jerome Park Reservoir. There was also a temporary connection made between the old and new aqueducts at South Yonkers, but all the water supply brought to the Borough of Manhattan during the past year was delivered through the new aqueduct. The two structures, their appurtenances and grounds have been maintained in good condition. Certain special repairs have also been made to retaining walls of the houses over the shafts of the new aqueduct. It may be noted that the new aqueduct, with its daily capacity of three hundred million gallons, was running almost full at the end of the year.

Distribution System.

Fourteen and one-half miles of new mains were laid during the past year, and in connection therewith 162 new stop-cocks and 301 new fire hydrants were placed. On December 31, 1902, there were in the two boroughs 886.98 miles of water mains, with 9,637 stop-cocks and 12,348 fire hydrants.

In Manhattan new mains were laid on the upper East Side and during the coming season contracts will be let for larger mains to replace the four and six inch mains in the side streets between Twenty-third and Fifty-ninth streets. In these streets the smaller mains have become entirely inadequate and the change is greatly needed.

The greater part of the new work, however, completed during the year 1902 in the way of main extensions was in The Bronx, and most of the contracts now made and about to be let are to extend the water service in that borough.

Up to March, 1901, the City's water service in The Bronx was solely dependent on the supply through the 48-inch pipe line leading from Lake Kensico to the Williamsbridge Reservoir, the maximum capacity of which is 20,000,000 gallons per day. On repeated occasions of dry seasons, notably in the fall of 1900 and the winter of 1900-1901, the supply fell as low as 10,000,000 per day. Temporary pumping plants were then installed and operated by contract to pump an auxiliary supply from the Croton Aqueduct into The Bronx distributing mains, beginning at the rate of 1,800,000 gallons per day, and increasing by July, 1902, to the maximum of 10,000,000 gallons per day. The pumping at this rate had to be continued until October 15, 1902, when a new 48-inch main, leading from the aqueduct east and south as far as the Southern Boulevard and One Hundred and Seventy-third street, was connected with the aqueduct, since which time the same average daily capacity has been carried to the central and southerly sections of the borough without pumping. Another 48-inch main was connected with the aqueduct at the same point leading westerly through Van Cortlandt Park, Bailey avenue and Harlem River terrace to Fordham road, and a daily supply has been furnished through it since December 2, 1902.

In December negotiations were completed for the purchase (though the actual transfer was not made before the close of the year) of all the property, mains and distributing pipes of the New York and Westchester Water Company lying within the City limits. This company has heretofore supplied the territory lying east of the Bronx river and a small section west of that river formerly in the Village of South Mount Vernon. Preparations are under way for connecting the distribution system thus acquired with the public supply. A 20-inch main which has been contracted for in Two Hundred and Thirty-third street and which has been completed as far east as the Harlem Railroad will provide for a portion of the territory, while a 20-inch main, also contracted for, to be laid in the Bronx and Pelham parkway and connecting with the 48-inch main previously referred to in the Southern Boulevard, will supply the low service area east of the Bronx river. During the coming year it is proposed to extend the 48-inch main on the Southern Boulevard to Jerome avenue, which will give a much-needed supply to the territory between One Hundred and Thirty-fifth and One Hundred and Eightieth streets. Work is also in progress on the Jerome Park pumping station, which will provide a high service for the territory in The Bronx above an elevation of 150 feet, and in connection with the construction of this station contracts have been let for a 36-inch main in Jerome avenue to connect with the 20-inch main in Gun Hill road, to serve the Spuyten Duyvil and Riverdale Districts. Spuyten Duyvil and Riverdale are at present supplied by the City of Yonkers, but with the completion of the main just referred to and after the acquisition of the New York and Westchester Water Company's property and the completion of the mains connecting therewith the public water service will extend into every section of the boroughs of Manhattan and The Bronx.

Certain general improvements have been planned and projected in connection with the distribution system. The Department has in the past been deficient in the matter of records. Even the data at hand have never been so assorted and indexed as to be fully available. Complete sectional maps are now being prepared on a large scale for the purpose of preserving proper records of the location of mains, valves and hydrants. General maps on a smaller scale, giving the general plan of the distribution system, are also nearing completion, and all drawings of every kind, which heretofore have been kept rather loosely, have been card indexed. The exact location of every main, valve and service pipe will be made as soon as possible a matter of available record.

Corporation or Curb Cocks.

At present service pipes are connected without providing the means of shutting water off between the corporation cock at the main and the premises, except by digging up the street. This results in about two thousand unnecessary street openings each year. It is proposed hereafter to place on each service pipe a curb-cock, located on the sidewalk with a stop-cock cover, so that the water may be shut off from the street without excavation. This will also give the City more complete control of the service. Designs for curb-cocks and connections have been made and this change is being carried into effect.

Hydrants and Valves.

Work is also under way for installing hydrants and valves of more modern design. The hydrants now in use are expensive, not the most efficient, and constantly in need of repairs. There is opportunity here for radical improvement. The installation of apparatus is under way for closing quickly the larger valves or gates when a shut-off has to be made. Shut-offs are now made by hand, and much delay ensues before the flow of water from a broken main can be stopped.

High Service.

The Department has much regretted the great inconvenience to which residents in the high service district of Manhattan have been subjected during the past year on account of the lack of pressure. The high service district includes the west side north of Fifty-ninth street, together with an area east of Central Park, and also the Murray Hill District. This water is supplied from the West Ninety-eighth Street, High Bridge and One Hundred and Seventy-ninth Street Pumping Stations, but the consumption, due to the great increase of population, has far outgrown the capacity of the pumps in operation. A contract was entered into in February, 1901, for the installation of two additional fifteen million-gallon pumping engines at the One Hundred and Seventy-ninth Street Station. Owing to strikes and unavoidable delays the delivery of these engines has been deferred long beyond the expiration of the contract time. The consumption has been so great and so constant that the old engines had to be kept in continual service and even worked beyond their normal capacity. As no time could be allowed for shut-downs and repairs the result was a constantly deteriorating service. Every effort was made by the Department to hasten the work of the contractors as the only practical method by which relief could be secured. The installation of the new pumps will afford full opportunity for the necessary repairs to the old engines, thereby securing a higher duty, a material saving in coal consumption, and in the future an efficient and adequate service.

Water Waste.

The question of water waste has been taken up and given careful consideration. The problem was one of immediate public interest. Expert opinions were to be found as to the amount of waste as well as its possible location, but few local facts had been collated and little accurate data were available. The methods of investigation pursued in other cities were considered, particularly the work in Liverpool and Boston, where what is called the "Deacon method" had been adopted. The Deacon method involves the purchase of a very large number of meters, as well as the making of expensive connections. To have applied this method of waste detection to the distribution system of Manhattan and The Bronx would have involved an expenditure of several hundred thousand dollars. A careful inspection for waste had to be made, but no extra funds had been appropriated for the purpose. After deliberation it was decided that satisfactory results could be obtained by means of pitometer measurements, and the services of Mr. Edward S. Cole, inventor and proprietor of the Cole-Flad pitometer and registering device, were secured, and work was commenced in districting the city. The results of this investigation, when further advanced, will be laid before you in detail. As far as the conservation of the supply is concerned, the only step that the Department can take for the present is to push forward the use of meters. The introduction of meters and their extension among private consumers will be continued as far as the provisions of the Charter allow. Steps have also been taken for the metering of all the public buildings (an important item), and, as far as possible, of the entire consumption of water for public purposes. In addition, an appropriation will be asked for the installation of meters or measuring instruments upon the large distributing mains. At present the nominal consumption is based upon the measurements made at the gate house at Croton Dam—figures that are hardly approximate. By pursuing the investigations already commenced, keeping a careful account of meter readings, extending the meters for public supply and measuring the flow in the mains, it may be hoped that the proportion of water used, the proportion wasted, how much waste is due to leaks in mains, how much to leaks in service pipes, how much to faulty plumbing and leaky fixtures, and how much to needless extravagance may be determined. When these facts are determined proper remedies can be intelligently applied.

Bureau of the Chief Engineer.

The Bureau of the Chief Engineer has been to a large extent reorganized, with a view to subdividing work and fixing responsibility. This reorganization is fully set forth in Bulletin No. 1 of the Chief Engineer, which is hereto annexed and marked "Document C."

Water Revenue.

Careful and thorough work has been done in the collection of the water revenue. Overdue accounts have been taken up and payments secured. Meter readings have been taken more frequently and at shorter intervals, and inspections have been more systematic. Frauds have been detected through which the City was being deprived of substantial revenue. Good service has also been rendered to the many owners of small properties by establishing and maintaining the custom of sending bills promptly, thus giving full notice and opportunity to avoid the addition of penalties. The metering of large consumers has also been extended. There is, of course, much additional work to do, but the actual results so far are extremely satisfactory. In the two boroughs of Manhattan and The Bronx the cash receipts show an increase of \$882,240.63 over the year 1901. Owing to the thoroughness with which the collections were made the amount returned to the Bureau of Arrears was considerably less, but the total revenue for the boroughs of Manhattan and The Bronx for the year 1902 was \$6,041,277.16, which, when compared with the total revenue for 1901 of \$5,304,984.19, shows an actual increase of \$736,292.97. The tables annexed to this report which cover the water revenue for the other boroughs show that the total water revenue for the whole City in the year 1902 reached the amount of \$8,888,931.20, an increase over the total revenue of 1901 of \$803,739.47, or nearly 10 per cent.

BOROUGH OF BROOKLYN.

Development of the Watershed and Increase of Supply.

The average daily supply and consumption of water from the Brooklyn system for 1901 and 1902 was:

	Gallons, 1901.	Gallons, 1902.	Gallons.
Ridgewood System	88,020,881	92,255,026	*4,234,145
Gravesend, New Utrecht and New Lots Systems	8,699,722	8,050,459	†649,263
Totals	96,720,603	100,305,485	‡3,584,882

*Increase. †Decrease. ‡Net increase.

The increase of supply over 1901, 36-10 per cent., was about proportionate to the estimated annual increase in population. It was made possible by favorable conditions of rainfall and the introduction of water through the new pipe conduit since last September.

Preparations for increasing the water supply for Brooklyn have been directed toward the further development of the Long Island Watershed in the way of securing a greater quantity of underground water, and also toward making safe and available certain surface waters by the installation of filter beds or plants.

After investigation it was decided that the greatest quantity of underground water could be secured by the establishment of infiltration galleries throughout both the new and old watersheds. The infiltration gallery consists of a system of pipes laid with open joints beneath the water-bearing stratum and draining into a receiving well from which the water is forced or pumped into the conduit. By this method a large proportion of the underground water which would otherwise reach the sea is intercepted. Surveys have been prepared preparatory to securing the land necessary for two of these galleries, and a third gallery, with the necessary pumping station, is in contemplation. In the meantime the driven wells in use have been examined, tested and cleaned, and some of the deep wells remodeled. This latter work has resulted in a daily addition to the supply of about one million and a quarter gallons.

Plans have been prepared for filtering the water of Horse Brook, as well as the water from Simonson's stream. Completion of these filtering beds should make available daily from two to three million gallons of surface water, which for the past year could not be used.

The mechanical filter plants at Springfield and Baisley's, which had been previously contracted for and were completed during the spring of 1902, failed under test to reach the standard specified in the contract. These plants, moreover, appeared so faulty in construction that I retained Mr. George Warren Fuller, consulting engineer, to make a special report thereon, requesting him to recommend whatever changes were, in his opinion, necessary to bring the plants up to the standards required by the specifications, and also to suggest any changes or additions to the original specifications which would make the filters permanently efficient.

Mr. Fuller recommended certain radical changes. His report was submitted to the contractors, who agreed to alter the plants accordingly and without cost to the City, although it devolved upon them considerable additional expense. As a result the City will have at Springfield and Baisley's modern filter plants of substantial and proper construction.

In conjunction with the preparations above noted for increase of supply, contracts were let during the year for two additional engines at the Millburn Pumping Station, increasing the capacity of that station from sixty to ninety million gallons per day.

Increase in Conduit Capacity.

The new pipe conduit from Millburn Pumping Station to Spring creek, near Ridgewood, was practically completed early in September, and water has been conveyed through it since September 11, making it possible to utilize more fully the supply from the eastern watershed and to increase the daily supply, as above stated, by 4,234,000 gallons. The few small leaks which developed after the introduction of water have been promptly repaired, and the remaining work on embankments and culverts finished. The new conduit affords the long needed opportunity for the examination and repair of the old brick conduit.

Sanitary Protection.

The increase in population in the watershed has correspondingly increased the sources of pollution and has rendered necessary the construction, as above noted, of two additional filter plants. The filtering of other portions of the supply of surface water will be necessary in the near future, as well as the purchase of additional lands for the protection of that supply.

The map of nuisances has been brought up to date, and the sanitary patrol has carefully attended to the inspection of streams. The work of the laboratory has been enlarged and extended, and analyses of samples of the water from every portion of the watershed have been made at frequent intervals.

Distribution System.

The water mains in the Borough of Brooklyn are not only incapable of distributing an additional supply, but are inadequate to deliver the water now available. The borough has entirely outgrown the system at present installed. A contract was let during the past year for laying additional mains, covering extensions in ninety-one streets. These extensions were to meet the needs of districts where there was no public supply; but preparations are under way for much more extended work during the year 1903, namely, for laying of a large distributing main, for a force main between the Ridgewood Pumping Station and Mount Prospect reservoir, and for the general substitution of new pipes for the old tuberculated water pipes which have been in the streets of this borough for many years.

Consolidation of Stations.

Plans are also under way for the development of the Gravesend station and the suppression of the station at New Utrecht, as well as for the enlargement of Ridgewood and the eventual suppression of the Mount Prospect station upon the completion of the force main above noted.

Revenue and Expenses.

The Brooklyn revenue for 1902 shows a comparatively small increase over that for 1901. As stated by the Deputy Commissioner in Brooklyn in his report—

"The reason for this is that meter bills for the last half of the year 1900 were for some reason withheld and not mailed until January 1, 1901. The result was that there was collected in the early part of 1901 an excess of \$200,000, which in the ordinary course, had the bills been sent out promptly, would have been collected in 1900."

I have previously called attention in this report to the fact that the increase of revenue for the City as a whole has far exceeded any increase shown in any previous year, and I think I can safely say that under the management of the present Water Registrar the increase in revenue for the Borough of Brooklyn for the year 1903 will exceed any previous increase in that borough. In that borough there has been a decrease in salaries and wages of one hundred thousand dollars, and an even greater decrease would appear in the accounts for supplies had it not been for the coal strike and the incidental rise in the prices of that commodity, which is much the largest item of the expense account.

BOROUGH OF QUEENS.

On January 1, 1902, the First Ward (Long Island City) was supplied with water from three pumping stations to an aggregate amount of somewhat less than three million gallons a day, which supply was supplemented with a daily supply of somewhat less than three and a half million gallons, which was obtained under contract with the Citizens' Water Supply Company. On November 8, 1902, a boiler exploded at the City Pumping Station No. 2, which completely demolished the station, and as the water obtained from the wells at that station was of poor quality, the station has not been rebuilt. All three stations were in a deplorable state, needing many repairs, and though much work has been done on them, they are not yet in a complete state of efficiency.

In the Third Ward, the pumping stations at Flushing, College Point and White-stone, with an aggregate daily capacity of four hundred thousand gallons, while not in as bad condition, have required many repairs. The Flushing station is well located and will repay extended development. With the changes under way it will be possible to secure an adequate supply therefrom for the Third Ward for the immediate future.

The distributing system throughout Long Island City was as inadequate as the pumping equipment. At the close of the year bids were received and contracts awarded for eleven and one-quarter miles of new distributing mains, and for a large circular main which will traverse the First Ward from the east to the west and give special relief to the easterly section, now supplied through long lines of small mains. During the coming year much larger expenditures must be made in order to afford the relief that is absolutely necessary. No one realizes more keenly than those connected with this Department the absolute inefficiency and inadequacy of the water supply for Long Island City and the necessity of providing some means for supplying the citizens of that part of the borough with a proper supply of water and reasonable protection against fire.

BOROUGH OF RICHMOND.

The main portion of the water supply in this borough is from private companies, and is deficient in quantity and not of the best quality. The only public supply is from a small pumping plant at Tottenville, which was enlarged and improved by the construction of four additional ten-inch wells. The service was also extended by laying eight thousand feet of six-inch mains in Central and Amboy avenues, Church street and Broadway. A comprehensive plan will be laid before the Board of Estimate and Apportionment during the year 1903 for an adequate public supply for the borough.

Additional Public Water Supply for Greater New York.

As stated by you in your message to the Board of Aldermen in January, 1903, the most important step taken in connection with this Department during the year was the naming by you of William H. Burr, Rudolph Hering and John R. Freeman as a special commission, to report on an additional water supply for The City of New York. On December 16, 1902, this Commission entered into an agreement with the City, represented by me as Commissioner of Water Supply, Gas and Electricity, which agreement was approved by the Board of Estimate and Apportionment, to make a thorough, complete and exhaustive examination and investigation of the following subjects and a report thereon:

"A." The quickest and best method of reducing the waste of water in the City to the lowest practicable amount, the quality of water derived from the various present sources of water supply, with recommendations as to the most practicable means of improving such quality, the pressures in the distribution of the present supplies of water, and of any future supplies, and the methods generally for such distribution for the purpose of attaining the highest practicable degree of fire protection.

"B." The probable future consumption of water in each of the boroughs of the Greater New York up to such time as shall seem best to the Commission, giving due consideration to the probable increase of population and its consumption per capita, and of the reduction of waste by the efficient execution of the methods therefor proposed by the Commission.

"C." The future sources of supply for the City which shall be most available from the point of view of cost, and quality of water, to meet the probable future conditions of the City, with the estimated cost of each, the probable yield of water from each and the length of time required to complete each, with general plans and specifications.

"D." The feasibility of developing a temporary and supplementary supply of water of comparatively moderate cost, pending the completion of the permanent future supply.

Consulting Hydraulic Engineer.

I desire also to call attention to the fact that on September 27, 1902, Mr. George W. Birdsall resigned from the position of Chief Engineer for the Boroughs of Manhattan and The Bronx, to act as Consulting Hydraulic Engineer to the Department. Mr. Birdsall was succeeded as Chief Engineer by Mr. Nicholas S. Hill, Jr. Mr. Birdsall had been Chief Engineer of the Croton water system for upwards of twenty years. The development of that system represents his work more than that of any one man, and the Department still receives the full benefit of his special knowledge and long experience.

At the beginning of this report I referred to section 469 of the Charter. The first four subdivisions of that section confer upon this department jurisdiction over the public water supply. By subdivision 5 of section 469 other duties equally responsible are imposed, including the lighting of the city, inspection of all electrical installation, cognizance and control of all subsurface structures in the streets, with the exception of the sewers, and power is conferred to grant permits to open streets when approved by the Borough President. In fact, this department has cognizance and control of the principal public utilities whether the same be under private or municipal ownership.

The granting of permits involves the consideration of many questions relating to public franchises and the policy has been adopted of requiring all corporations applying for leave to open streets to file with this department copies of their charters and all papers upon which their rights are based. Where the franchises claimed appeared to be at all doubtful the questions have been referred to the Corporation Counsel, and in several instances it has been found that companies have been operating for many years in certain territory without any legal right. The full report on the history, nature, terms and extent of the franchises claimed or owned by all corporations exercising rights in the public streets of this City would in my opinion be of great public value and well worth the labor and expense involved.

Public Lighting.

Prior to 1902 the lighting of buildings which were under the immediate and sole charge of the respective administrative departments was attended to by them and not by the former Department of Public Works or the Department of Public Buildings, Lighting and Supplies. This latter Department furnished light only to court-houses and armories, public markets and unattached buildings. In an opinion dated April 29, 1902, the Corporation Counsel held that under the revised City Charter the duty devolved on the Department of Water Supply, Gas and Electricity to furnish illuminant to all public buildings owned and used by the City, except the buildings of the Department of Docks, and to obtain by transfers from the appropriations of other departments the necessary funds. This threw upon this Department the lighting of nearly a thousand buildings belonging to the City, in addition to the making of contracts for lighting the streets and parks. The incidental complications have been very great. The difficulty of supervising the use of illuminants in buildings controlled by other departments is obvious, and the proper administration of this branch of our work can only be worked out by experience. The contracts for street lighting for the year 1902 had been advertised for and the bids accepted prior to January 1 of that year. Mr. Dougherty, my predecessor, while seriously questioning the prices charged, had no alternative but to sign the contracts. Before making contracts for the year 1903 I asked representatives of the lighting companies throughout the city to meet in my office for a conference, with a view to going over the specifications and to secure, if possible, a reduction in prices and improved service. No suggestions were made for any changes in contracts for gas lamps. Certain changes were suggested and made in the specifications for electric lighting. The terms of the proposals, however, were not substantially altered from those of previous years, except that a clause was inserted permitting any or all bids to be rejected with the approval of the Board of Estimate and Apportionment. Bids were advertised to be opened on the 12th and 19th days of January, 1903.

The details of the work of the Bureaus of Lamps and Lighting appear in the quarterly reports of this Department for 1902.

Electrical Bureaus.

The increase in work of these bureaus in Manhattan, The Bronx and Brooklyn has been very great. All new electrical installations are subject to rigid inspection and approval by this Department before they can be put in operation. This duty includes supervision of the electrical equipment of the elevated and surface railroads and all matters relating to overhead electric wires and subway construction for underground conductors.

I was authorized by the Board of Estimate and Apportionment and the Board of Aldermen to appoint a Consulting Electrical Engineer, and since August 12, 1902, Professor George F. Sever has acted in that capacity. Immediately after his appointment the subject of placing the electric wires in Brooklyn underground was taken up. After careful study and long conferences with the officers and engineers connected with the various corporations affected, a start was made in the clearing up of fourteen miles of Brooklyn streets. By intelligent and conservative treatment the Department has secured the full co-operation of the corporations, and the work has been so planned that it can be carried forward with increased rapidity from year to year.

Before the close of the year 1903 steps will be taken for the removal of the one important pole line remaining in the Borough of Manhattan.

The following documents, appended to this report, will furnish further detailed information of transactions of the Department:

"A."—Statement of appropriations, funds and expenditures.

"B."—Statement of revenue from water service.

"C."—Bulletin of the Chief Engineer.

"D."—Report of Chief Engineer for Brooklyn.

Respectfully,

R. G. MONROE,
Commissioner of Water Supply, Gas and Electricity.

DOCUMENT "A."

Statement Showing Titles of Appropriations, Appropriations with Transfers 1902, Expenditures During First Nine Months, Expenditures Fourth Quarter, Balances December 31, 1902; also Titles of Special and Bond Accounts, Balances October 1, 1902, Credits During the Quarter, Expenditures During the Quarter and Balances on December 31, 1902.

Titles of Appropriations.	Appropriations, With Transfers, 1902.	Expenditures First Nine Months.	Expenditures Fourth Quarter.	Balances December 31, 1902.
Salaries—General Administration	\$24,466 37	\$15,564 76	\$8,438 86	\$462 75
Manhattan and The Bronx.				
Salaries—Central Office	26,935 67	19,072 06	7,777 98	85 63
Salaries—Bureau of Chief Engineer	14,200 00	10,839 90	3,264 76	95 34
Salaries—Bureau of Water Register	99,915 00	72,088 57	26,912 38	914 05
Salaries—Croton Water System	34,830 00	26,198 00	8,387 73	243 67
Salaries—Bronx River Works	3,900 00	2,925 00	975 00	.....
Salaries—Laying Croton Pipes	6,747 70	6,747 70	.....	.....
Salaries—Lighting and Electricity	48,736 00	37,490 61	10,975 00	270 39
Salaries—Office of Deputy Commissioner, etc., Bronx	22,950 50	14,315 40	8,559 86	75 24
Maintenance—Croton Water System	369,649 50	187,836 01	95,694 84	86,118 65
Bronx River Works—Maintenance and Repairs	27,000 00	15,133 62	8,292 05	3,574 33
Supplies and Contingencies	16,202 51	9,790 65	4,186 32	2,225 54
For Additional Fire Hydrants	40,000 00	27,907 46	7,713 93	4,378 61
Public Drinking Hydrants	2,000 00	543 30	191 24	1,265 46
Repairing and Renewal of Pipes, Stop Cocks, etc.	265,825 00	172,575 57	64,100 54	29,148 89
Rentals of Fire Hydrants . . . . .	.....	.....	.....	.....
Water Supply for the Twenty-fourth Ward	12,100 00	4,575 69	5,820 55	1,703 76
Lamps and Lighting	1,417,530 73	822,978 80	436,867 52	157,684 41
Borough of Brooklyn.				
Salaries—Office of Deputy Commissioner	10,761 36	7,285 48	3,250 25	225 63
Salaries—Office of Chief Engineer	6,133 32	4,745 82	1,387 50	.....
Salaries—Office of Water Registrar	68,750 00	51,345 50	17,149 62	254 88
Salaries—Laboratory	5,595 32	4,040 76	1,464 56	.....
Salaries—Lighting and Electricity	34,733 25	26,403 09	7,935 88	.....
Supplies and Contingencies	8,000 00	4,785 13	2,343 28	871 59
Rentals of Fire Hydrants	25,000 00	12,500 00	6,250 00	6,250 00
Lamps and Lighting	1,012,016 34	598,450 03	297,898 20	115,668 11
Borough of Queens.				
Salaries—Office of Deputy Commissioner	20,358 75	14,919 25	5,125 40	314 10
Salaries—Pumping Stations	33,038 75	23,978 89	9,171 58	488 28
Salaries—Lighting and Electricity	13,052 00	9,787 04	3,227 94	36 12
Pumping Stations, Fuel and Supplies	45,800 00	7,168 76	11,471 51	27,159 73
Maintenance and Repairs of Water Pipes, etc.	24,000 00	14,297 43	7,236 33	2,466 24
Supplying Water to Long Island City	81,000 00	37,088 53	30,381 56	13,529 91
Rentals of Fire Hydrants	30,000 00	5,380 00	7,450 00	26,170 00
Lamps and Lighting	380,233 23	192,801 04	79,936 46	107,495 73
Supplies and Contingencies	4,000 00	1,148 33	865 17	1,986 50
Borough of Richmond.				
Salaries—Office of Deputy Commissioner	6,900 00	4,990 39	1,724 97	184 64
Salaries—Lighting and Electricity	5,059 50	3,868 62	1,162 29	28 59
Pumping Stations—Salaries and Supplies	7,575 00	3,356 68	1,862 84	2,355 48
Lamps and Lighting	149,795 56	94,866 61	27,407 58	27,431 37
Rentals of Fire Hydrants	28,027 50	5,334 40	13 15	23,679 95
Supplies and Contingencies	2,600 00	563 54	461 10	1,575 36
Totals	\$4,444,838 86	\$2,575,779 92	\$1,223,335 73	\$645,723 21

Note—Expenditures were also made during the quarter in payment of liabilities incurred prior to 1902 and chargeable to sundry appropriations of 1901 amounting to \$4,936.03; of 1900 amounting to \$17,220.46, and of 1899 amounting to \$12,964.75.

Titles of Special and Bond Accounts.	Expenditures First Nine Months.	Balances October 1, 1902.	Credits During Last Quarter, 1902.	Expenditures During Last Quarter, 1902.	Balances on December 31, 1902.
Manhattan and The Bronx.					
Additional Water Fund of The City of New York	\$467,568 78	\$32,431 22	.....	\$3,610 40	\$28,820 82
Revenue Bond Fund for Temporary Pumping Plant	47,574 04	1,165 36	.....	1,165 36	.....
Water Fund—Boroughs of Manhattan and The Bronx	473,012 66	880,233 06	400,000 00	156,508 84	1,123,724 22
Water Main Fund, No. 3	23,060 41	416,609 65	.....	3,381 37	413,228 28
Water Meter Fund, No. 2	984 00	40,182 48	.....	3,046 21	37,136 27
Commission of Engineers—Expenses of . . . . .	.....	.....	100,000 00	.....	100,000 00
Borough of Brooklyn.					
Borough of Brooklyn—Water Construction	15,392 19	95,375 03	.....	2,318 48	93,056 55
Water Construction—Borough of Brooklyn	355,779 73	870,539 69	.....	51,904 56	818,635 13
Water Fund—Borough of Brooklyn . . . . .	.....	581,000 00	100,000 00	.....	681,000 00
Water Main Fund—Borough of Brooklyn	51,661 63	239,694 71	.....	24,974 01	214,720 70
Maintenance and Distribution of Water Supply in the Borough of Brooklyn	625,349 16	494,650 84	.....	281,560 80	213,090 04
Borough of Queens.					
Revenue Bond Fund for Laying Water Mains	12,338 40	39,890 32	.....	2,747 33	37,142 99
Water Fund—Borough of Queens	103 22	196,503 53	13,500 00	.....	210,003 53
Borough of Richmond.					
Water Fund—Borough of Richmond	7,071 41	2,823 11	8,000 00	1,701 00	9,122 11
Revenue Bond Fund for Laying Water Mains	7,971 19	2,028 81	.....	204 18	1,824 63
Totals	\$2,087,866 82	\$3,893,127 81	\$621,500 00	\$533,122 54	\$3,981,505 27

Note—There was also expended during the quarter the sum of \$2,435.32, chargeable to the Brooklyn Water Revenue Accounts of preceding years.

DOCUMENT "B."**REVENUE FROM THE WATER SERVICE.****BOROUGH OF MANHATTAN AND THE BRONX.**

January 1 to April 30, 1902—

Annual frontage and extra rates	\$88,905 73
Penalties on deferred payments	3,900 10
Meter rates, water supplied in houses	947,960 62
Meter rates, water supplied to shipping	59,169 53
Charges for unmetered water supplied to shipping, builders, contractors and for miscellaneous purposes	25,840 84
Charges for permits to tap water mains	2,028 00
Totals	\$1,127,805 42

BOROUGH OF MANHATTAN—SEPARATE.

May 1 to December 31, 1902—

Annual frontage and extra rates	\$1,939,440 02
Penalties on deferred payments	28,389 91
Meter rates, water supplied in houses	1,894,703 65
Meter rates, water supplied to shipping	92,494 02
Charges for unmetered water supplied to shipping, builders, contractors, etc.	85,293 25
Charges for permits to tap water mains	6,322 50
Totals	4,046,643 35

BOROUGH OF THE BRONX—SEPARATE.

May 1 to December 31, 1902—

Annual frontage and extra rates	\$265,789 75
Meter rates, water supplied in houses	138,267 13
Penalties on deferred payments	4,499 59
Charges for unmetered water supplied to shipping, builders, contractors, etc.	7,541 72
Taps	2,348 00
Totals	418,446 19

Total cash receipts	\$5,592,894 96
Total cash receipts, 1901	4,710,654 33

Increase, 1902 over 1901 \$882,240 63

Amounts returned in arrears, 1902	\$448,382 20
Amounts returned in arrears, 1901	594,329 86

Total revenue, 1902.....	6,041,277 16
Total revenue, 1901.....	5,304,984 19
Increase, 1902 over 1901.....	\$736,292 97
BOROUGH OF BROOKLYN.	
Annual frontage and extra rates.....	\$1,656,652 28
Water rates.....	703,211 27
Penalties on deferred payments.....	30,208 81
Miscellaneous.....	18,008 77
Charges for permits to tap water mains.....	10,271 75
Total Bureau receipts.....	\$2,418,352 88
Arrears collected by Bureau of Arrears.....	139,360 66
Arrears collected by Department Taxes and Assessments.....	95,142 57
Total receipts for 1902.....	\$2,652,856 11
BOROUGH OF QUEENS.	
Annual frontage and extra rates.....	\$75,812 00
Penalties on deferred payments.....	72 39
Meter rates, water supplied in buildings.....	97,430 40
Meter rates, water supplied to shipping.....	999 33
Unmetered water supplied to buildings, contractors, etc.	1,448 05
Charges for permits to tap water mains.....	1,853 00
Total cash receipts, 1902.....	\$177,615 17
Arrears returned to Bureau of Arrears.....	14,994 24
Total revenue for 1902.....	192,609 41
Total cash receipts for 1902.....	177,615 17
Total cash receipts for 1901.....	131,246 28
Increase 1902 over 1901.....	46,368 89
BOROUGH OF RICHMOND.	
Annual frontage and extra rates.....	\$499 25
Penalties on deferred payments.....	10 59
Meter rates, water supplied in houses.....	3,320 81
Total revenue for 1902.....	\$3,830 65

DOCUMENT "C."

BULLETIN No. 1.

Bureau of Chief Engineer, Department of Water Supply, Gas and Electricity.
Commencing January 1, 1903, the organization of the Bureau of the Chief Engineer of Water Supply of the Department of Water Supply, Gas and Electricity will be as follows, and all employees are hereby directed to be governed accordingly.

The Bureau will be divided into divisions as follows:

- (1) Engineering.
- (2) County.
- (3) Pipes and Distribution.
- (4) Mechanical.
- (5) Queens.
- (6) General Inspection.
- (7) Complaints and Services.
- (8) Accounting.

(1) Engineering Division.

The Engineering Division will be in charge of the Chief Engineer. This division will include the drafting room and such Assistants to the Chief Engineer as may be appointed from time to time. These Assistants will have special duties assigned to them and will report directly to the Chief Engineer. Included under this classification at present are Col. John Meacham, Mr. M. Lorini and Mr. Steers.

The Assistants to the Chief Engineer, when directed by the Chief Engineer, will have special powers delegated to them, and all employees are directed to assist them in every way possible.

The drafting room will be in charge of a Chief Draughtsman, who will report directly to the Chief Engineer. To him will report all draughtsmen and others employed in the drawing room. He will have charge of the preparation of all plans for new work of every kind, except where otherwise specified herein. He shall see that all drawings and records are properly filed and indexed. He shall have charge of the preparation of all contracts and specifications. He shall see that the records of mains laid are properly kept on maps provided for the purpose, and that all hydrants and valves are properly located thereon, and perform such other duties as may from time to time be designated by the Chief Engineer.

(2) County Division.

The County Division will be in charge of Mr. John E. McKay, Principal Assistant Engineer. This Division will be divided as follows:

(a) Putnam County District, in charge of Mr. Thomas Manning (Leveller), Superintendent, with headquarters at Carmel, N. Y. This district will include all the property owned by New York City and under control of this Bureau and situated in Putnam County.

(b) Westchester County Division, in charge of Mr. Thurston C. Culyer (Assistant Engineer), Superintendent, with headquarters at Purdy's, N. Y. This district will include all the property owned by New York City and under control of this Bureau and situated in Westchester County, except the lands on the Kisco river and tributaries from the Croton river to the headwaters of the said river, and the property along the aqueducts from Croton Lake south.

(c) Bronx River District, in charge of Mr. Matthew Betts (Assistant Engineer), Superintendent, with headquarters at Valhalla, N. Y. This district will include all property owned by New York City and under control of this Bureau included in the watershed of the Byram and Bronx rivers, together with the lands on the Kisco river as above described, and all land or other property belonging to the City along the line of the 48-inch main from Kensico to Williamsbridge reservoir and including this reservoir.

In addition to his other duties, the Superintendent of The Bronx River District shall be responsible for the regulation of the flow of water in the 48-inch pipe line to Williamsbridge and the maintenance of a proper water level in the reservoir in his district.

The keepers at the several reservoirs shall report to the Superintendent in charge of the district in which the reservoir under their care is located. They shall be responsible for the handling of the gates and their proper maintenance, as well as all property placed under their supervision. They all shall be responsible for the sanitary condition of the property under their charge. They shall keep the time of all employees reporting to them, and shall suspend any workmen under their charge for unnecessary absence, inefficiency, carelessness, insubordination, intoxication or other sufficient cause, promptly preferring charges, in a written report, to their Superintendent, who shall at once forward the same direct to the Chief Engineer.

The several Superintendents, who shall report directly to the Principal Assistant Engineer, will be held responsible for the use of all materials furnished to them on requisition. All requisitions and correspondence from them should be addressed to the Principal Assistant Engineer. They shall be responsible for the sanitary condition of the streams and reservoirs under their care, and shall report all nuisances promptly. They shall see that all the masonry, embankments, gate houses, gates, fences and other property and buildings under their supervision are maintained in proper condition. They shall keep time books, showing the number of employees under them, and keep accurate account of the time made, rendering weekly certified statements of the same. In general, the Superintendents shall from time to time perform such duties as may be assigned to them or which may become necessary. They shall further see that neat and accurate measurements of rainfall, height of water in reservoirs and other meteorological data are kept by the person at each reservoir, in properly designed books, which it shall be the duty of the Principal Assistant Engineer to furnish, and shall render daily to the Principal

Assistant Engineer copy of the data collected the preceding day, or as it is practicable to collect the same.

The following will also report to the Principal Assistant Engineer:

(d) Assistant Engineer in charge sanitary patrol.

(e) Draughtsmen in charge of property maps and condemnation proceedings.

The Assistant Engineer, Mr. Fred K. Betts, shall make periodical inspections of the entire watershed for the purpose of locating nuisances of every kind, and he shall promptly report the same for correction. He shall have prepared sanitary maps of the entire watershed, on which shall be accurately located all nuisances, including maps of the several villages located therein. These maps shall be filed with the Chief Draughtsman, and corrected from time to time as changed conditions may require. He shall also prepare plans for the proper disposal of the sewage of the villages above mentioned. He shall also from time to time make inspection of the properties of the private water companies supplying water in the boroughs under the jurisdiction of this Bureau, and report definitely all unsanitary conditions encountered and see that proper records are kept of the same.

The Draughtsman, Mr. Edmund J. Maurer, in charge of the property maps and condemnation proceedings, shall prepare and file all maps of property owned by the City and included in the County Division. Such maps shall be card indexed. He shall also prepare maps of all lands proposed to be taken under condemnation for the sanitary protection of the watershed. His headquarters shall be at High Bridge.

The aqueduct, gate houses and reservoirs, from Croton Lake to Central Park, shall be under the charge of the several Keepers of the seven divisions as now maintained. The Keepers, along the aqueduct and at Central Park, shall be responsible for the maintenance of the property under their care and for all materials delivered to them. These Keepers shall report directly to the Principal Assistant Engineer.

The clause preceding, relating to responsibility of the Keepers at the several reservoirs for their employees, shall apply to the Keepers along the aqueduct, except that they will report all delinquencies at once to the Chief Engineer.

It shall be the duty of the Principal Assistant Engineer to see that each of the officers of his division reporting to him, execute their duties promptly and efficiently as directed. It shall further be his duty to have samples taken at least once per month from the various reservoirs, in bottles properly prepared, and in accordance with instructions subsequently to be issued, to be transmitted to the laboratory of the Department of Water Supply, Gas and Electricity for the purposes of analysis and test, and to keep in a book accurate record of the results of these analyses. He shall see that proper printed forms for the reports necessary to keep an accurate record of the operations of his division are prepared. He shall be responsible for the maintenance of the proper water levels in the various reservoirs, and shall report daily to the Chief Engineer the same, and he shall further keep fully informed of the conditions of the waste gates and stop planks along the two aqueducts, and have daily reports made of the quantity of water going to waste at such openings and shall see that the same are properly closed during all seasons wherein water in the Croton is not going to waste. He shall keep the Chief Engineer fully informed of the operations of his division. He shall be responsible for the accurate measurement of water delivered to the City at Croton Dam and shall see that gauges are properly placed and maintained, and that accurate records are kept at the dam. He shall further see that new and modern rain gauges are placed at all reservoirs and that they are kept in good repair. It will also be his duty to see that modern devices are installed at the several dams and reservoirs for the purpose of obtaining the exact depth of water therein. He shall further see that accurate account is kept of the materials furnished or work done by contractors engaged on work in his division, as well as a record of the number of working days consumed in such work. This information shall be transmitted on monthly reports to the Chief Clerk of the Bureau.

(3) Division of Pipes and Distribution (Manhattan and The Bronx).

The Division of "Pipes and Distribution" will be in charge of Mr. Charles H. Bull (Assistant Engineer), Engineer in Charge Pipes and Distribution. To him shall report: Mr. Lintz, Transitman, Second Assistant Engineer in charge Pipes and Distribution, Transitmen, Levelers and Rodmen, Inspectors in charge of Pipe Laying and Repairs, Inspectors of Street Paving, Inspectors of Pipe, Hydrants, Valves and Materials at the various foundries and shops.

Inspectors of Masonry.

Foremen of the Pipe Yards.

Foremen of the Repair Gangs.

Foreman O'Connell, Floating Gang No. 1.

It shall be the duty of the Second Assistant Engineer to make daily rounds of all the work under construction, to visit the repair gangs and to see personally that all work is properly taken care of, in accordance with these instructions, and that all Transitmen, Levelers, Inspectors and other employees are performing their duties. To promptly report all delinquencies, inattention, want of skill or breach of discipline on the part of employees. He shall at once report the failure of any Transitman, Leveler or Inspector who fails to keep proper notes.

It shall be the duty of all Transitmen, Levelers, Rodmen and Inspectors, when designated to take charge of work, to see that all contracts are carried out in accordance with the specifications of this Bureau; to make daily reports, on proper forms, of the progress of the work under their charge, giving in detail the number, size and weight of pipes laid, the size and weight of specials used, the number and size of valves, the cubic yards of excavation of different kinds and such other quantities of materials and fittings used as may be named in the specifications or required on the work.

They shall carry field books and locate therein accurately the location and depth of the mains laid, and such other subsurface structures, such as gas mains, electric railway tracks, electric conduits, sewers, etc., as may be encountered in the execution of the work, together with an accurate location of valves, manholes, etc. Such notebooks are to be turned in weekly to the drawing room so that notes may be transcribed to the permanent records of this Bureau.

Where Inspectors are working under Transitmen or Levelers in charge of new construction, they shall report to such Transitman or Leveler and receive their instructions from him and perform such duties as he may require.

Transitmen, Levelers, Rodmen and Inspectors, when so instructed, shall see that all changes in mains made by contractors, corporations or others licensed to make such changes by this Department are properly cared for and protected, and that all work is first class and strictly in accordance with the standards of this Bureau and as specified or shown on plans approved by the Chief Engineer.

The Inspector of Street Paving shall be responsible for the condition of all streets torn up by workmen of this Bureau or employed by contractors engaged by this Department, as well as all openings made on permits issued by the Department. He shall see that repairs are promptly and properly made and prepare the necessary requisitions to this end, and where sidewalks are repaired, under contract with this Bureau, he shall see that the materials used and work done are strictly in accordance with the specifications of this Bureau. He shall prepare proper forms for necessary reports and keep proper records of all street openings for whatever purpose made and transmit the cost of repairs made for parties outside this Bureau to the Chief Clerk for entry in the bill book.

The Inspectors of Pipe, Specials, Hydrants, Valves, etc., shall report to the Assistant Engineer in charge of Pipes and Distribution, and shall visit and inspect the product of such foundries and manufactories as he may designate. They shall render daily reports on proper forms prepared by the Assistant Engineer in charge of Pipes and Distribution, giving the size, weight and number of pipes and specials inspected by them, as well as the size, style, number and weight of the valves and hydrants inspected and accepted, together with similar necessary information as required in regard to manhole castings and covers, special castings, etc., which they may be designated to inspect. They shall see that all specifications are rigidly followed and shall promptly report unnecessary delays on the part of the contractors, as well as defective workmanship and inadequate equipment. They shall perform such special duties as may from time to time be designated and at all times be ready to promptly carry out instructions.

The Inspectors of Masonry, Thomas W. King, Peter Kiernan and William D. Phelan, shall inspect all concrete and masonry work, such as gate vaults, etc., required in the laying of mains, and will, while on such work, report to the Transitman or Leveler in charge. They may also from time to time be sent to other divisions to inspect masonry construction, when they will report to the head of the division under whose jurisdiction the work may come.

The Foreman of the Pipe Yards, at Twenty-fourth street and One Hundred and Seventh street, shall be held responsible for the proper protection of the materials under their care, and will be required to keep the proper stock accounts, showing materials received and distributed, and they shall render monthly statements showing the exact amount of each kind of material on hand on forms properly prepared. It shall be their duty to see that their stock is maintained and to report in advance when the supply of repair parts or other materials is low, and in ample time to allow the replenishment of their stock so that at all times departmental requisitions may be promptly filled.

They shall see that no materials are delivered outside the Department, except on the requisition of the Chief Engineer, Water Register or Assistant Engineer in charge of Pipes and Distribution.

Materials shall be delivered to employees only on the properly prepared requisition of heads of other divisions or the Foremen of the several repair and floating gangs, when the use to which such materials are to be put is definitely stated on the requisition and the requisition is properly signed by the Foreman.

Stock will be taken each six months by an expert accountant and receipts and deliveries checked with requisitions filed, and the foreman of the pipe yards will be required to account for all materials.

They should promptly report all defective materials received, as well as shortages in deliveries.

The Foremen of the repair gangs Nos. 1 to 7 inclusive shall be responsible for the condition of the mains, valves, hydrants, covers, etc., in the district under their charge. They shall promptly attend to all complaints of leakage or shortage of water and shall maintain at their headquarters a log book in which is to be entered the nature of all complaints received, the time of the receipt of the complaint, by whom the complaint was made, the name of the man delegated to attend to same, time when repairs were completed, the nature of the trouble, etc. They shall also keep a record of the general work of maintenance done by the gang. They shall make daily reports of the work done on properly prepared forms. They shall keep accurate records of the time of the men reporting to them in time books and shall report the same weekly to the Assistant Engineer in charge of Pipes and Distribution. They shall also report any unusual leaks and the cause of the same, and shall see that all ordinances relating to the protection of hydrants, valves, etc., are observed, and swear out the necessary warrants for the punishment of offenders. They shall also promptly suspend any workman under their charge for unnecessary absence, inefficiency, carelessness, insubordination, intoxication, or other sufficient cause, promptly preferring charges in a written report to the Chief Engineer. They shall also see that proper guards and lights are kept about all openings made by them, to prevent accidents, and they shall further promptly report abuse of hydrants used under permits issued by the Chief Engineer.

All instructions to the Foremen of repair gangs relating to maintenance of proper records of work, time books, reports, the suspension of delinquent employees, guards and lights about openings, etc., shall apply to Foreman O'Connell of floating gang No. 1. He shall receive his instructions from the Assistant Engineer in charge of Pipes and Distribution or such person as he may designate, and promptly perform such duties as may be assigned to him.

The Assistant Engineer in charge of Pipes and Distribution shall see that all instructions relating to his division and contained herein are faithfully executed. He shall sign all requisitions for new materials for his division and shall certify in writing on the face of all bills or estimates, as to the proper receipt of goods or work done. He shall have proper forms prepared for all records and reports. He shall see that all records of location of mains, valves, hydrants, etc., are properly turned in and accurately plotted, and that a card index system, showing the location and kind of hydrants, valves, etc., are accurately kept, as well as a history of the valves showing the last inspection, the amount of opening, etc. Duplicate copies of the reports or valves shall be forwarded to the General Inspector, John E. Deignan.

He shall maintain a pressure map of the boroughs under his charge, showing the pressure at hydrants at all street corners, and shall keep fully informed of the condition and requirements of the various sections of the boroughs under his jurisdiction for the purpose of providing for an intelligent extension of mains where required. He shall frequently consult with the general inspection division for the purpose of ascertaining the amount per capita consumption of the different sections of the City, and see that all leaks reported from this division are promptly repaired. He shall have charge of the preparation of all plans for the extension of mains and the estimates of the cost thereof, and shall make requisition on the Chief Draughtsman for the preparation of such plans as he may require. He shall attest all changes in mains made necessary by new construction of any kind and see that such changes are made in accordance with the plans of this Bureau. In general, he shall have general supervision of the distribution system and the materials required therefor and shall especially see that the stock on hand at the storage yards is properly maintained in order to insure the prompt execution of all repairs. He shall also exercise a general supervision of the operation of the private water companies in the territory under his supervision and see that periodic inspections are made for the purpose of determining the adequacy of the pressure maintained at the hydrants of the said companies and to ascertain whether the terms of the contracts, made with such companies, with the City, are being complied with. He shall also preserve and maintain the proper records of the location and number of miles of mains owned by said companies, the number of hydrants in use, location of valves, etc., and see that such companies furnish from time to time up-to-date maps of their pipe-line systems for file in the drawing room. He shall further see that accurate account is kept of the materials furnished or work done by contractors engaged on work in his division, as well as a record of the number of working days consumed on such work. This information shall be transmitted on monthly reports to the Chief Clerk of the Bureau.

(4) Mechanical Division.

The Mechanical Division will be in charge of Mr. John W. McKay, Assistant Engineer. To him shall report the Chief Enginemen and other employees on all the pumping stations in the boroughs of Manhattan, Bronx, Queens and Richmond.

The Chief Enginemen shall be responsible for the condition of the pumping stations under their charge. They shall keep a record of the daily operations of their plants in books prepared by the Assistant Engineer, showing the quality of water pumped, coal consumed, oil and waste consumed, labor required, gallons pumped per pound of coal, and duty, with such other information as may be required from time to time, and they shall render monthly reports of the operations of their stations. They shall be required to render daily reports of the coal, waste and other supplies on hand, and shall be responsible for the supplies delivered to them. They shall be responsible for the economical operation of their plants and for all employees engaged therein.

It shall be their duty to see that their stock of coal and supplies is properly maintained and to report in advance when such stock is running low and in ample time to allow of its replenishment. They shall be held responsible for the proper operation of all machinery under their charge and shall report all necessary repairs in advance. They shall see that their engines are properly indicated at least once per week. They shall also promptly suspend any employee under their charge for carelessness, unnecessary absence, insubordination, intoxication or any other sufficient cause, promptly preferring charges in a written report to the Chief Engineer.

The Assistant Engineer in Charge of the Mechanical Division shall see that all instructions relating to his division, and contained herein, are faithfully executed.

He shall sign all requisitions for new materials for his division and shall certify in writing on the face of all bills or estimates as to the proper receipt of goods or work done. He shall see that proper storerooms are provided at all pumping stations, provided with lock and key, in which shall be stored necessary repair parts and materials, as well as all other supplies, except coal. He shall require the Chief Enginemen to keep proper stock accounts. He shall further see that accurate account is kept of the materials furnished or work done by contractors engaged on work in his division, as well as a record of the number of working days consumed on such work. This information shall be transmitted on monthly reports to the Chief Clerk of the Bureau.

In general, he shall be responsible for the safe, economical and efficient operation of all stations under the jurisdiction of this Bureau.

(5) Queens Division.

The Queens Division will be in charge of the Assistant Engineer in charge of the Borough of Queens. To him shall report the Draughtsmen and Inspectors attached to the Borough Office, as well as the Supervisor of Mains, Foremen and

Tappers, as well as the Caulkers, Pipe Fitters, Toolmen, Laborers, etc., engaged in the maintenance of the distribution system.

The Supervisor of Mains, Thomas Lang, shall have general charge of the inspection of laying of new mains, as well as repairs to present mains, and the Foremen of Mains shall receive instructions from him. He shall also have charge of the corporation yard in the First Ward. He shall see that the instructions to Foremen, Inspectors and Tappers in the Division of Pipes and Distribution, in the Boroughs of Manhattan and The Bronx, are carried out by like employees, reporting to him in the Borough of Queens, and shall further be governed by the rules and regulations relating to Foremen of Pipe Yards in Manhattan and The Bronx, so far as his management of the corporation yard in the First Ward is concerned, except that materials may be delivered on the requisition of the Assistant Engineer in charge of the Borough of Queens.

Inspectors in Queens shall be governed by the instructions to Transitmen, Levelers and Inspectors in charge of similar classes of work in the other boroughs and herein contained.

Foremen of Repair Gangs in Queens shall be governed by the instructions to Foremen in charge of similar classes of work in other boroughs. (Pages 11 and 12.)

The Tapper in Queens shall be governed by the instructions to the Tappers in the other boroughs, except that he shall report to the Supervisor of Mains.

The Assistant Engineer in charge of the Borough of Queens shall be governed by the instructions to the Assistant Engineer in charge of Pipes and Distribution, except that he shall sign all requisitions for materials for the Borough of Queens and shall have charge of the borough drafting room. He shall see that duplicates of all maps, plans and drawings filed in the borough drafting room are forwarded to the general drafting room in Manhattan. It shall further be his duty to have samples taken at least once per month, and oftener, as required, from the various sources of supply, both municipal and private, in bottles properly prepared and in accordance with instructions subsequently to be issued, samples to be transmitted to the laboratory of the Department of Water Supply, Gas and Electricity for the purpose of analysis and test, and to keep in a properly prepared book accurate record of the results of these analyses. He shall also sign permits for all taps $\frac{3}{4}$ -inch or over, under the same conditions as specified for the Chief Inspector of Complaints and Services for the Boroughs of Manhattan and The Bronx. He shall also see that similar records, as are specified for the Division of Complaints and Services, Manhattan and The Bronx, are kept in Queens. He shall also have charge of and properly care for all property of this Bureau in the Borough of Queens, except where otherwise specified and included under the Mechanical Division. He shall further see that accurate account is kept of the materials furnished or work done by contractors engaged on work in his division, as well as a record of the number of working days consumed on such work. This information shall be transmitted on monthly reports to the Chief Clerk of the Bureau.

(6) General Inspection Division, Manhattan and The Bronx.

The General Inspection Division, Manhattan and The Bronx, will be in charge of Transitman John E. Deignan. He shall report to the Chief Engineer. To him shall report Foreman Hoyne, of Floating Gang No. 2. The Foreman of Floating Gang No. 2 shall perform such duties as may be designated by the Transitman to whom he reports. The rules and regulations herein contained and relating to other Foremen shall apply to the Foreman of Floating Gang No. 2. It shall be the duty of the Transitman to see:

First—That all gates and valves are in proper working condition.

Second—To make careful inspection of all pipe lines and sewers for the purpose of detecting leakage.

Third—By the use of proper instruments to determine the amount of consumption and leakage in districts to be subsequently laid off and plotted, and to keep the necessary data in regard to the population of these various districts for the purpose of accurately determining from time to time the per capita consumption therein.

Fourth—For the purpose of keeping the records of population, he shall see that the proper population maps are maintained in the drawing room.

Fifth—He shall observe the pressures in all districts in which he makes inspections and report the same to the Assistant Engineer in charge of Pipes and Distribution.

Sixth—He shall keep a card index of all valves under his care, on which he shall record such data as he may be instructed by the Chief Engineer to preserve.

Seventh—He shall perform such special duties as he may be instructed to undertake by the Chief Engineer and shall report directly to him.

He shall sign all requisitions for new materials for his division and shall certify in writing on the face of all bills or estimates as to the proper receipt of goods or work done. He shall also certify to the time of the men under him.

(7) Division of Complaints and Services, Manhattan and The Bronx.

The division of Complaints and Services, Manhattan and The Bronx, will be in charge of Mr. James Menair, Chief Inspector.

To him shall report such Inspectors as may be assigned to his division, as well as the Tapper, Martin Campbell.

It shall be the duty of the Inspector to make such investigations and reports as they may be required by the Chief Inspector. They shall also report on all new taps to be issued, and prepare necessary diagrams of the property to be connected with the water mains, giving the exact location of the new tap or taps and service pipe, as well as the location of taps already in existence. They shall also, when sent out to investigate complaints, especially examine all tanks for the purpose of determining whether they are properly equipped with ball float cocks and whether the same are in good condition.

The Tapper shall insert all corporation cocks and shall see that services are located as shown on the diagrams furnished him by the Chief Inspector, and he shall note carefully, on such diagrams, such changes as may become actually necessary in placing the service, turning in the diagrams upon completion of the work. He shall also render daily statements to the Chief Inspector on properly prepared forms of the location and number of taps made each preceding day.

It shall be the duty of the Chief Inspector, who shall report to the Chief Engineer, to see that all instructions to employees are faithfully carried out. He shall sign all requisitions for materials for his division and shall certify, in writing, on the face of all bills or estimates, as to the proper receipt of goods or work done. He shall also certify to the time of the men under him. He shall promptly investigate all complaints referred to him, either by sending one of his Inspectors to the ground or by reporting the same to the Foreman of the repair gangs, as the case may require, and shall keep in a properly prepared book the date of the receipt of the complaint, to whom referred, when attended to, because of complaint, if remedied and how, and date of answer to complaint. He shall also keep a copy of all answers to complaints, which he will transmit to the Chief Clerk of the central office of the Department, referring special cases to the Chief Engineer, as may, in his judgment, call for his attention. He shall also sign for the Chief Engineer all permits to use hydrants under such restrictions as may be imposed by him, and shall keep a record of all such permits granted, the date of their issue, the term for which issued, to whom issued, the territory covered by the permit and the conditions imposed.

He shall sign for the Chief Engineer all permits for new taps, over $\frac{3}{4}$ inch diameter, under such rules and regulations as may be issued from time to time, referring special cases to the Chief Engineer as circumstances may require. Before issuing such permits he shall send one of his Inspectors to the property to make the necessary survey and diagram, as hereinbefore called for, and shall issue the permit only under such conditions as the rules of the Department may require. He shall see that these diagrams are transmitted to the Tapper and returned in corrected form for file in a card index system, which will show the location of the property and number of service pipes, location of same, whether metered or not, for what purpose used, and such other data as may be found necessary.

He shall issue all requisitions on the storage yard for corporation and curb cocks, specifying on the requisition where they are to be used.

He shall also keep in a properly prepared book, a record of all pressures taken, and shall forward the same weekly to the drafting room for entry on the pressure map.

He shall perform such other special duties as he may be called upon from time to time to execute.

(8) Accounting Division.

The Accounting Division shall be in charge of Mr. E. R. Johnson, Chief Clerk. He shall be responsible for the accounts of this Bureau and for the several boroughs under its jurisdiction and see that the method of bookkeeping in the various bor-

oughs, so far as it relates to this Bureau, conforms to the methods in vogue in office of the Chief Engineer. He shall certify to the correctness of all bills by placing his initials thereon. He shall also see that the following records are kept, assigning the work to his several clerks, as, in his judgment, may be best for the interests of the Bureau:

First—A record of all requisitions issued.

Second—A file of all bills presented for payment and vouchers issued therefor.

Third—A ledger showing the balances on all appropriations and funds of the Bureau.

Fourth—A stock account showing the materials on hand at the various storage yards, pumping stations, etc.

Fifth—A ledger showing the cost of operation of the various divisions of the Bureau, as well as the cost of maintaining the various county districts and reservoirs, the pumping stations, repair gangs, the cost of pipe renewal and repairs, hydrant renewal, repairs and inspection, with such other items as may be directed by the Chief Engineer.

Sixth—A card index of all employees, giving their rating, pay, term of employment, record, etc., as may be directed.

Seventh—A record of appointments, transfers, dismissals, etc., of all employees.

Eighth—A file of all correspondence sent from the office of the Chief Engineer, maintaining separate letter books for the Chief and each of the division heads.

Ninth—He shall keep proper bill books, entering therein the cost of all work or paving done for parties not connected with this Bureau, and he shall report to the Chief Engineer every quarter a statement of the amount of unpaid bills, with the names of delinquents.

Tenth—He shall keep an account with all contractors employed by the Department, showing the total amount of work and materials furnished, amounts paid on account of such contracts, balances and materials due, etc. He shall see that the proper officers of the Bureau transmit such reports to him as will enable him to keep an accurate record and promptly report to the Chief Engineer when these instructions are not complied with.

DOCUMENT "D."

CITY OF NEW YORK, BOROUGH OF BROOKLYN,
DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY,
CHIEF ENGINEER'S OFFICE,
ROOM 25, MUNICIPAL BUILDING,
BROOKLYN, N. Y., January 20, 1903.

Hon. ROBERT VAN IDERSTINE, Deputy Commissioner of Water Supply, Gas and Electricity:

SIR—I submit herewith report showing the condition of the water supply in the Borough of Brooklyn and work done in connection with the same for the year ending December 31, 1902, and also the receipts (classifying only those for metered and unmetered water) and the expenditures provided for under the Water Revenue Budget prepared by this Bureau, as well as those items of the Tax Levy Budget chargeable to engineering work. In the reports for the three first quarters of the past year the condition of the water supply in the Borough of Queens, and work thereon, then under my charge, was discussed, and particularly in the report for the quarter ending September 30, wherein a full and detailed statement was made of the amount pumped at the various stations, mode of supply of each of the five wards in the borough and work to be done both in the distribution system and at each of the six pumping stations belonging to the City, as well as of the condition of these pumping stations, cost of the supply and deficiency in records and data. No reference shall now be made to the water supply in that borough, assuming that a report thereon may be incorporated with that on the boroughs of Manhattan, The Bronx and Richmond.

	1901.	1902.
Receipts.		
Regular water rates.....	\$1,575,426 88	\$1,656,652 48
Metered water rates.....	811,769 14	703,211 27
Default, arrears, etc.....	266,283 33	292,980 83
Total receipts.....	\$2,653,479 35	\$2,652,844 58
Revenue refund.....	7,619 34	1,379 36
Net receipts.....	\$2,645,860 01	\$2,651,465 22
Expenditures (Water Revenue Budget).		
Chief Engineer's Bureau—		
Salaries and wages.....	\$527,581 21	\$406,857 22
Materials and supplies.....	397,879 11	355,737 12
	\$925,460 32	\$822,594 34
Repairs to Distribution and Complaints—		
Salaries and wages.....	\$212,466 20	\$183,904 88
Materials and supplies.....	58,722 25	16,290 73
	271,188 45	200,195 61
Expenditures (Tax Levy Budget).		
Salaries—		
Office of Chief Engineer...	\$7,399 98	\$6,133 32
Laboratory	5,200 00	5,595 32
	12,599 98	11,638 64
Supplies—		
Contingencies	\$6,777 18	\$7,033 66
Rental of fire hydrants.....	30,000 00	25,000 00
	36,777 18	32,033 66
Total expenditures.....	\$1,246,025 93	\$1,066,462 25

The item for contingencies, which figures among the tax levy items, includes all bureaus. The amounts included in the tax levy chargeable to water supply but not to the engineering work, and therefore omitted above, amounted in 1902 to \$78,995.09, and in 1901 to \$88,383.94. The large decrease in receipts from metered water in 1902 as compared with the same item of 1901 is due to the collection in the latter year of a large amount of arrears. The figures for 1902 show that the receipts for metered water are about 30 per cent. of the total receipts from metered and unmetered water. This proportion will be more closely estimated and fully discussed further on.

Bond Accounts.

	1901.	1902.
Water Main Fund, Brooklyn.....	\$34,496 87	\$76,885 20
Water construction, Brooklyn	391,371 64	407,534 29
Brooklyn, water construction	122,250 98	17,710 67
Extension and improvement of water system.....	24,378 40	
Total Bond Accounts	\$572,497 89	\$502,130 16

Reduction in Expenses.

At the beginning of the year a revised Budget for 1902 was prepared and submitted, in which a considerable reduction as compared with the previous year was made. It is satisfactory to state that, although the saving outlined in that Budget was large, the results of the year have shown that the recommendations therein made were safe and conservative. Thus, the reductions in salaries in the year in the Water Revenue Account have been—

In Maintenance and Repairs Account (Engineer's Bureau)..... \$60,723 99

In Bureau of Repairs to Distribution and Complaints..... 28,561 32

Making a total of \$89,285 31

This apparent saving should really be increased by about \$13,000, as the pay of nearly all the Enginemen at the pumping stations was increased in the latter part of 1901, the increase amounting to about \$17,000 per annum, and only about \$4,000 of this increase showed in the statement for the year 1901, whereas for 1902 the full

amount of \$17,000 was paid and charged. This reduction has been accomplished without impairing the efficiency of the force, and although a larger quantity of water has been supplied to the borough and the amount of contracts prepared and of work done, both new and for maintenance and repairs, has exceeded that in any other year for many years past.

In supplies and materials the decrease in expenditures has been as follows:

Maintenance and repairs, Engineer's Bureau, in round figures..... \$20,000 00

Repairs to distribution, say..... 32,500 00

Making a total of..... \$52,500 00

Adding the reduction in salaries heretofore given of..... 89,285 31

The total reduction in expenditures is therefore..... \$141,785 31

In estimating the reduction in supplies and materials an allowance has been made for the difference between the amount of coal on hand January 1, 1903, and that existing January 1, 1902, estimated in round figures at 4,800 tons, which, at \$4.60 per ton, would amount to \$22,080, and an allowance has also been made for the decrease in the supplies on hand January 1, 1903, in the Bureau of Repairs to Distribution and Complaints, estimated at \$10,000.

And this large decrease has been obtained in spite of the additional price that we had to pay for coal, owing to the strike, and which aggregated over fifty thousand dollars (\$50,000). If this item be taken into account, as well as the thirteen thousand dollars (\$13,000) spent for the increased salaries of Enginemen at the pumping stations, made in the latter part of 1901 to comply with the regulations in regard to prevailing rates, to which reference has been made, the total decrease in expenditures for the year 1902 over 1901, based on normal conditions, would be about two hundred and five thousand dollars (\$205,000).

WATER CONSUMPTION—U. S. GALLONS.

	1901.	1902.
Ridgewood Supply.		
Average daily consumption—		
Ridgewood low service.....	78,428,068	83,206,213
Mount Prospect low service.....	6,457,207	5,800,032
Mount Prospect high service.....	3,135,606	3,248,781
Totals.....	88,020,881	92,255,026
Maximum daily consumption, winter months.....	94,804,950	101,396,650
(Jan. 21) (Feb. 10)		
Maximum daily consumption, summer months.....	103,778,750	101,178,400
(July 1) (June 3)		
Maximum average daily consumption for one month.....	92,679,608	95,333,109
(June) (February)		
Maximum daily consumption for year.....	103,778,750	101,396,650
(July 1) (Feb. 10)		
Gravesend Supply.		
Average daily consumption.....	3,039,801	2,875,002
Maximum daily consumption, winter months.....	3,910,300	3,117,400
(Dec. 30) (Feb. 20)		
Maximum daily consumption, summer months.....	3,706,000	3,346,300
(Aug. 17) (June 24)		
Maximum average daily consumption for one month.....	3,475,982	3,132,245
(February) (July)		
Maximum daily consumption for year.....	3,910,300	3,477,100
(Dec. 30) (Sept. 5)		
New Utrecht Supply.		
Average daily consumption	1,802,426	1,467,530
Maximum daily consumption, winter months.....	2,198,400	1,964,400
(Feb. 13) (Jan. 15)		
Maximum daily consumption, summer months.....	2,040,000	1,586,000
(July 1) (June 30)		
Maximum average daily consumption for one month.....	2,070,722	1,547,161
(February) (January)		
Maximum daily consumption for year.....	2,204,600	1,996,600
(May 16) (May 17)		
New Lots Supply.		
Average daily consumption.....	3,857,495	3,707,921
Maximum daily consumption, winter months.....	5,463,600	4,919,500
(Dec. 15) (Dec. 8)		
Maximum daily consumption, summer months.....	4,910,700	3,920,400
(June 26) (July 22)		
Maximum average daily consumption for one month.....	4,283,255	4,446,487
(October) (December)		
Maximum daily consumption for year.....	5,463,600	4,919,500
(Dec. 15) (Dec. 8)		

Summary of Ridgewood, Gravesend, New Utrecht and New Lots Supplies.

	1901.	1902.
Average daily consumption.....	96,720,603	100,305,485
Maximum daily consumption, winter months.....	103,815,550	109,358,350
(Jan. 19) (Feb. 10)		
Maximum daily consumption, summer months.....	113,678,250	109,585,100
(July 1) (June 3)		
Maximum average daily consumption for one month.....	101,784,528	103,879,545
(June) (February)		
Maximum daily consumption for year.....	113,678,250	109,585,100
(July 1) (June 3)		
Population dependent upon the system.....	1,169,700	1,209,400
Average consumption per head per day.....	82.7	82.9

The details of consumption, temperature, rainfall and storage capacity are shown upon a diagram on file in this bureau.

In the above tables, and in the statements hereinafter to be made on the condition of the supply, the item of "Consumption" includes not only the actual amount of water used by consumers, but also waste and any errors of measurement. The subject of waste will be discussed further on.

Rainfall.

Year.	Brooklyn.	Hempstead.
1898	47.96	51.22
1899	42.11	43.60
1900	43.11	41.43
1901	47.98	49.92
1902	48.47	51.98

Storage.

Reservoir.	Jan. 1, 1902.		Jan. 1, 1903.	
	Depth.	Contents.	Depth.	Contents.
Ridgewood, Basin No. 1.....	14.45	49,953,500	14.33	49,513,000
Ridgewood, Basin No. 2.....	14.50	58,299,100	14.33	57,573,100
Ridgewood, Basin No. 3.....	13.80	100,959,400	13.36	97,593,500
Mt. Prospect	20.46	19,698,400	21.45	20,815,400
New Lots	13.80	3,664,800	9.50	2,172,500
Total (City).....		232,575,200		227,667,500
Hempstead	12.67	398,919,000	16.20	633,432,000
Total storage.....		631,494,200		861,099,500

Condition of Supply.

The average daily increase in consumption last year over that of 1901 was 3,585,000 gallons, but the increased daily draft from the Ridgewood system averaged 4,234,000 gallons, owing to a diminution in the supply from the New Lots, Gravesend and New Utrecht stations. At the latter the necessity of reducing the pumping, owing to the infiltration of salt water, resulted in an average daily decrease in the supply of 335,000 gallons. The average daily consumption per capita during last year was only 0.2 of a gallon more than in 1901, so that the increase in consumption has been practically equal to the increase in population. During the summer there were few days of very high temperatures, so that the summer consumption was less than normal, and while last year the maximum average daily consumption for one month occurred in June, this year the maximum daily consumption for one month occurred in February.

The rainfall in 1902 was the maximum for the ten-year period and that the average for the past six years has been 47.43 inches, which is 3.81 inches above the average rainfall as recorded since 1826. It may be reasonably expected that this period of high rainfall may be followed by one of low rainfall possibly extending over several years. In spite of the heavy rains, our storage reserve became so low in the latter part of September that there was reason to fear that special steps to reduce the consumption might have to be taken, even although the consumption had been kept as low as possible by holding the Ridgewood reservoirs at the minimum safe depth. On September 27 the amount of water in storage was 522,000,000 gallons, and as the minimum amount in the distribution reservoirs should not fall below 200,000,000 gallons, the available storage on September 27 was 322,000,000 gallons, which would be equivalent to about 40 days' supply, assuming the average daily draft to be the same as from September 1 to September 26. Heavy rains in the last days of September and in October, during which months the total precipitation reached the maximum figures for any month since May, 1898, so increased the supply as to prevent any danger of shortage, and the storage on January 1, 1903, was in round numbers 229,000,000 gallons more than on January 1, 1902. On the old watershed all the pumping stations have been in commission, except when shut down for a few days for necessary repairs. On the new watershed these stations have been shut down whenever the gravity supply was equal to the safe pumping capacity of the Millburn station, which is at present about 50,000,000 gallons per day. These stations were operated as follows:

Agawam—August 30 to October 31, November 4, November 6 to December 16.

Merrick—June 8 to October 14, October 20 to November 3, November 5 to November 30, December 2 to December 16.

Matowa—August 25 to October 13, October 20 to October 27, October 29 to December 8, December 10 to December 16.

Wantagh—June 12 to December 16.

Massapequa—July 12 to October 31, November 4, November 6 to December 16.

The 48-inch pipe conduit, between Millburn and Spring Creek, was put in operation throughout its entire length on November 11, but through a 24-inch connection with the main brick conduit at Oconee it had been utilized down to that station on September 9. Under the safe maximum pressure of the present Millburn engines, the capacity of each of the existing 48-inch pipe conduits is about 25,000,000 gallons, and that of the main brick conduit about 75,000,000 gallons, or a total maximum conduit capacity of about 125,000,000 gallons daily, allowing a margin of say 20 per cent., the total safe conduit capacity would be about 100,000,000 gallons daily, so that it is apparent that with the normal increase in consumption an additional conduit will be required within the next four years. It is pertinent to recall here that the original plan for an additional pipe conduit, prepared some seven years ago, provided for either one 66-inch steel pipe or two 48-inch cast-iron pipes, but that, owing to the difficulty of obtaining the requisite appropriation, only one of the two 48-inch pipes has been laid, although provision has been made for the second one in building the culverts and crossings.

Extension of Distribution.

Mention has been made in the quarterly reports of the cumbersome method specified under the previous Charter to secure authorization to lay water mains, owing to which and to the prescribed practice for the disposal of petitions presented in this Borough, there was great confusion in the records, and it was difficult to determine which petitions had been recommended or rejected, or even what had become of many of them, and as a consequence, action was delayed, resulting in insufficient service and much damage and inconvenience to our citizens. After considerable labor, a tabulated statement was prepared and submitted of all pending petitions presented up to November 1, 1902, showing which of these has been reported upon favorably, as well as the estimated cost of doing the work therein specified, and also which had been rejected and on what grounds. After obtaining an appropriation for this purpose of \$175,000, a contract was prepared and advertised covering all the extensions of distribution mains favorably reported upon up to November 1, 1902, which covers extensions on ninety-one (91) streets and avenues, aggregating 104,900 feet of pipe, at a cost of \$134,000, for which bids have already been opened, so that the award of the contract will be made within a few days. Another contract was prepared, for which bids have also been just received, so that the award can be shortly made, for laying a 30-inch force main between the Mount Prospect Pumping Station and the High Service Tower, and the 12-inch and 8-inch mains necessary to properly divide and supply the Tower and Reservoir Systems. The total cost of the work under this contract would be in round numbers \$28,600, of which that of the 30-inch force main would be \$18,200. This 30-inch force main was recommended years ago as part of the plan for remodeling the High Service and is necessary for that purpose in connection with the Mount Prospect Pumping Station. However, if there be sufficient reason to assume that the appropriation of \$750,000 already asked for additional trunk mains can be speedily obtained, the Mount Prospect Pumping Station can be advantageously dispensed with, as will be hereafter shown, and the 30-inch force main above referred to would not be required. In that case, if the contract for the 30-inch force main should not be awarded, the 12-inch and 8-inch cast-iron pipe along Eastern parkway and other streets, which are included in that contract, could form part of a new one which would comprise also the petitions for extension lately received and favorably reported upon.

During the year, one hundred and seven (107) petitions for extensions were received and examined. Of these, sixty-one (61) petitions, covering 55,338 linear feet of pipe, were favorably reported upon and fifty-one (51) were included in the contract above referred to.

The work under the contract with John Hann, which was assigned by the latter to Isaac Harris, has progressed favorably and will probably be completed within the specified time.

The following work has been done during the year in the extension of distribution:

	20-inch.	12-inch.	8-inch.	6-inch.	Total.
Linear feet of water mains...	1,320	5,295	14,353	32,280	53,248
Miles of water mains.....	0.25	1.003	2.718	6.114	10.085
Water gates set.....	3	10	37	83	133
Fire hydrants set.....	..	..	..	..	143

Electrolysis of Water Pipes.

This subject, previously referred to, demands a further study to determine the best means to avoid the damage to our pipes and perhaps for establishing the responsibility for existing conditions. During the year the action of electrolysis has been clearly shown at various points in the borough in old pipes taken up; among others, a section of pipe was removed at Wallabout Market which had been entirely eaten through in several places. It would be advisable to make a thorough examination of this question, for which purpose, however, special experts would have to be detailed. During the work of replacing the old mains abundant opportunity will be given to examine the effects of electrolysis.

Pressure.

The Engineer's Bureau of Brooklyn have repeatedly called attention to and reported on the lack of adequate pressure through certain sections of Brooklyn, practically since the installation of the works, in connection with their recommendations as to the necessity of additional distribution mains, which have been scantily provided and only when conditions had become well nigh unendurable. General public interest in this question having been aroused, owing to the recent increase in insurance rates

through certain sections of the Borough, and to the report of the New York Fire Insurance Exchange explaining their action, it may be pertinent to briefly discuss this subject.

Inadequate supply, lack of sufficient pressure at certain points, and the existence of old and tuberculated mains, are the general reasons alleged by the underwriters for their action. The adequacy of the supply will be fully discussed under its appropriate head further on. It will be sufficient to state here that the pressures given in the report of the underwriters were taken, as I understand, towards the end of last summer, when the Ridgewood Reservoirs were unusually low, although even under such conditions we have reason to doubt the accuracy of some of the extreme figures given, that since October 1, owing to the abundant rainfalls, the supply has been and is, at this date, more adequate than it has been at this season for many years past, and that contracts have been prepared and will probably be shortly awarded as part of plans to adequately provide for the needs of Brooklyn until the new supply for Greater New York is available.

The loss of pressure due to the reduction of area in the pipes first laid has been for years a source of trouble, particularly in some sections, as that fronting the river, between Greenpoint and Gowanus canal, where the pipes originally laid were uncoated and have become badly tuberculated. In the report for the quarter ending September 30 of last year this matter was referred to and a synopsis given of a complete schedule prepared some years ago of the pipes that had been laid for between forty and forty-five years and were then in service, which showed the following quantities:

6-inch pipe, 453,000 feet.
4-inch pipe, 800 feet.
3-inch pipe, 500 feet.

It was then also stated that the cost of the removal of all these pipes would be between \$750,000 and \$800,000. Both on account of the aggregate expense of complete renewal and of the impossibility of blocking up traffic at once in all the districts affected, the work should be done gradually, replacing, of course, the worst pipes first. For this purpose the writer has recommended that an appropriation of \$200,000 be asked, so that the work may be commenced this year, and this amount may be increased by the balance (exceeding \$100,000) from the Water Main Fund, if there are no legal obstacles to its being thus used. The first work will be to replace the lateral service mains with larger mains, leaving the tuberculated pipes in sections of not more than two blocks in length to be eventually removed and as fast as the appropriations permit. Under this plan the damaged pipe can all be replaced within the next three or four years without serious disturbance to traffic. Provision has already been made for extending the limits of the Mount Prospect High Service District, and when the pumping capacity is increased, as already recommended, the district will be extended so as to cover those sections where there is at present low pressure.

The report of the underwriters calls attention to the danger of an interruption of the supply in the territory served by the New Lots Station, the Gravesend Station and the Flatbush Water Works Station, alleging that there are frame buildings at these stations liable to destruction by fire, which might cause at least a temporary cessation of pumping. A contract has already been made for a 20-inch connection between the force mains leading from the Ridgewood Reservoirs to the New Lots Reservoir, which, when completed, will prevent the danger above referred to and also enable us to supplement any deficiencies in the supply from the New Lots Station. An appropriation has also been made for remodeling the Gravesend Station under a plan which will provide for a brick fireproof building and thus eliminate the well-founded objection made to the present one. The territory supplied by the Gravesend Station is further protected by cross-connections to the Ridgewood system, as follows:

16-inch connection, Fourth avenue and Sixtieth street.

8-inch connection, Eighteenth avenue and Eighty-sixth street.

—which are sufficient to supply the territory in the event of any stoppage of the Gravesend Station and effectually refute the allegation on this point in the underwriters' report. The Flatbush Water Works are owned by a private company, and therefore not at present under the control of this Department. If there are no legal objections ample provision could be made, however, for a continuous supply in the event of a stoppage of that pumping station, by making a connection between the 48-inch main on Fort Hamilton avenue with the 16-inch force main of the Flatbush system. I would recommend that such connection be made, if there are no legal obstacles.

The contract for laying water mains, shortly to be awarded, and to which reference has already been made, will provide a supply in a large number of districts where the need of water and inadequate pressure have been felt for several years. Plans are under preparation and will soon be completed for a system of cross-connections that will greatly improve the efficiency of the service in various districts, and among them in the Dry Goods District.

Lastly, recommendations have been made for an appropriation of \$750,000 for additional trunk mains, which, with the necessary main branches, will relieve all the districts where the lack of pressure has been most severely felt.

Leaving aside the refutation, not here intended, of those claims in the report of the underwriters which are not supported by our records or established facts, or which should be considerably qualified, it may suffice for present purposes to prove, as has been done by the foregoing statements, that each and all of the important points presented in the report to explain the action of the underwriters have been the subject of mature study on the part of this Department, as the result of which comprehensive plans have been prepared, are in course of execution and will be pushed to completion as speedily as practicable to remove all cause or pretext for the objections advanced, and secure adequate service with efficient and economical operation.

PUMPING STATIONS.

In previous Quarterly and Annual Reports a rather full summary of the work of repairs at the various Pumping Stations has been included, but even in that condensed form it is so lengthy that it has been deemed advisable to omit it in this report and only the items of some importance in the work of repairs will be referred to. The complete data, although valuable for our office records in order to accurately determine the cost of work and efficiency of management, and to afford a safe basis for comparison, are not of sufficient interest to be included here. The work of repairs at the various stations has been done mostly by our men, and where this has not been practicable, by quarterly requisitions, or special requisitions under competitive bids. The total cost of work done under requisitions was \$7,698.11.

Mt. Prospect.

The contract for the installation of two new boilers was duly completed and work begun on the contract for a third boiler, which, when completed, will afford sufficient boiler capacity for some time. The necessity of providing additional pumping capacity for both the Reservoir and Tower services, and the conditions of this plant, have been referred to in the Quarterly Reports for the year and will be fully discussed further on in connection with the suppression of this station.

Gravesend and New Utrecht.

The necessity of additional boilers and engines at Gravesend and renewal of boilers at New Utrecht, if both these stations were to be continued, have been referred to in the Quarterly Reports, as also the advantages of abandoning New Utrecht Station and developing Gravesend. The latter plan will be fully discussed further on.

Ridgewood.

The retained percentage on the contract with Henry R. Worthington for the remodeling of the North Side Plant, including the installation of new engines and boilers, was paid early in the year, thus completing this contract. A new concrete flooring has been placed in the main engine-room and a new pressed-metal wainscoting put up. The room and engines have been rewired and after the walls have been painted the main engine-room will be in good condition. A new roof is required over the storage sheds and over the main engine-room, and with these exceptions the buildings are in very fair condition.

On the south side extensive repairs have been made during the year to the Bigelow boilers and the ordinary repairs to the engines and Strong boilers. The new electric generator and engine have been installed and the building partially rewired. The remainder of the wiring should be replaced and a contract will be prepared early in the year for this work. The grounds on the south side should be fenced to protect the City property and avoid the great difficulty now experienced in

preventing trespassing, owing to which a watchman has to be kept on duty in the afternoons.

New Lots.

The fourth boiler for this plant has been installed, thus completing the necessary remodeling of the station, with the exception of a new building. The Engineer's house is at present directly over the engine-room and is a frame structure. This arrangement is unsafe, owing to the danger of fire, and inconvenient, as the continuous vibration renders the Engineer's rooms extremely undesirable as a dwelling. The house should be removed and a brick building erected.

Line Stations.

At the various line stations only the usual work of maintenance and repairs has been done. Details are given in the annexed tables.

At Millburn a new engine and generator have been installed and have been rendering satisfactory service since the latter part of August. For this station bids were asked for two engines of a daily capacity of 12,500,000 gallons, which might be increased to 15,000,000 gallons, and for two boilers for this station, and two bids, one for each item, were received and opened on August 8, as follows:

From M. T. Davidson, for the two engines..... \$67 600 00
From A. D. Granger Company, for the two boilers..... 11,950 00

These two bids were rejected and the work readvertised, and new bids were received and opened on September 11, as follows:

For the two engines—

From the Snow Steam Pump Works..... \$50,000 00
From Henry R. Worthington (one bid)..... 51,000 00
From Henry R. Worthington (another bid)..... 59,000 00

For the two boilers—

From Edwin Burhorn..... 11,400 00
From J. Edward Ogden Company..... 11,800 00
From James Reilly Repair and Supply Company..... 12,276 00

The bid of the Snow Steam Pump Works for the engines was declared irregular and the contract awarded to Henry R. Worthington, on his bid for \$51,000.

The contract for the boilers was awarded to Edwin Burhorn on his bid for \$11,400.

Upon the completion of these contracts, the pumping capacity of this station will reach the estimated maximum under the plans for the extension of the water works east of Rockville Centre, and correspond to the conduit capacity and original estimate of the yield of the watershed between Millburn and Massapequa, the size of the units being such as to allow one engine in reserve.

Driven Wells.

Considerable work has been done in examining and testing the driven wells at the various pumping stations, pulling them up, cleaning them, re-driving them and replacing points where required, as well as in repairs to the cast iron mains, etc. Open test wells have also been sunk, particularly at Shetucket and Oconee, in order to make the examinations already referred to.

Mr. Joseph B. White, Inspector of Driven Wells, who had charge of the driven well gang, and who, owing to his health and contemplated change in business had made arrangements to go South, resigned his position on December 31. The work is now in charge of Mr. James Pierson, Foreman under Mr. White, and Messrs. Kellett, Reusch and Maher acting as Assistant Foremen. I have recommended the reorganization of the driven well gang.

Coal Strike.

The effects of the recent strike, extending from May 8 to October 16 of last year, were seriously felt in the management of our works. Deliveries under our contract were entirely suspended or reduced, and coal had to be purchased by requisitions at increased prices, which reached for semi-bituminous coal, including handling and freight, \$10 per ton for deliveries at our Ridgewood Pumping Station. And more serious than the surcharge in cost was the depletion of our coal bins, which for weeks held a supply so meagre that even at our Ridgewood stations, where not less than thirty days' storage should be held, there was barely enough for two or three days' consumption. The total amount of semi-bituminous coal purchased by requisition was about 19,239 tons, at prices (including all charges) ranging from \$4.85 to \$10 per ton. The first requisition for the semi-bituminous coal was given on August 23, 1902.

Contracts and specifications for anthracite and semi-bituminous coal were prepared only for the supply needed from January 1 to May 1, 1903, and subsequent bids will be asked for the supply for the year commencing on May 1 next. This change was made to avoid the danger of paying prices possibly yet affected by the strike for a whole year's supply, and also because even under normal conditions a more favorable contract can be made in spring than in winter. The late contract has been made for coal delivered at the nearest switch to the pumping station, a separate contract being made for handling the coal between the railroad switch and the pumping station. This was the usual practice under the old City of Brooklyn, and is to be preferred to that under which for the last four years the coal dealers were required to furnish the coal and do the hauling, as the coal dealers often do not wish to bid where the contract entails troublesome and petty details with which they are not familiar, while at the same time the division enables us to take advantage of local conditions in contracting for the hauling.

Filter Plants at Baiseleys and Springfield.

The filter plants, for which a contract was awarded to Messrs. J. P. Cranford & Co., for the Jameco and Springfield stations, were completed sufficiently to commence the official test in the spring. The results of these tests, which have been fully recorded in the Quarterly Reports for this year, showed that the plants did not comply with contract requirements as well as the reasons therefor, and thereupon the contractors requested an extension of time in order to make certain changes which, when completed, would enable them to carry out all the stipulations of their contract. Mr. Geo. W. Fuller was employed as expert to pass upon the proposed changes, and he advised certain modifications in the proposition made by the contractors and the addition of other features calculated to secure greater efficiency and economy in the management of the plants. Under this plan work is now going on to remodel the plants, and it is expected that they will be ready for test and operation early in the spring of 1903. The successful completion of these two filter plants will add to our supply the surface flow of the Baiseleys and Springfield streams, now running to waste.

Shetucket and Oconee.

At Shetucket the high amount of chlorine in the deep wells made the water therefrom objectionable, and appreciably increased the average amount of chlorine in the total supply. Tests were made during the latter part of October and the early part of November to determine whether the chlorine reached the deep wells by passing under the clay from the sea, or by passing over the clay and through the clay alongside of the well casings down into the wells, and the results showed that the chlorine found its way under the clay to the wells. It is therefore proposed to draw up some of the deep wells and change them to shallow wells.

At Oconee the supply is derived from deep wells drawing from below the clay bed. It is proposed to utilize the water above the clay bed temporarily by shallow wells, which eventually will probably be replaced by an infiltration gallery.

Ponds, Conduit and Reservoirs.

The slope walls of the Millburn Reservoir were entirely grouted, the work having been suspended in the winter of 1901 and resumed on June 2, 1902, and completed on August 13. Assistant Engineer Charles D. Ward had charge of this work, and the average cost of grouting the wall was 50 cents per square foot, which was the estimate made by this Bureau, a result which is very satisfactory, especially in consideration of the inexperience of the men available for the work.

The 48-inch connection between the northerly 48-inch pipe line and the Millburn Reservoir was made by Mr. John Horie under requisition 1.

The completion of the additional pipe conduit will make possible an examination of the brick conduit, which it has not been practicable to undertake for several years. This inspection will be made at the first opportunity.

The flow from Horse brook, which passes through the Town of Hempstead and is thus badly polluted, has been wasted for the greater part of the year through the 36-inch cast-iron by-pass pipe which empties into the stream flowing from our Smith's pond, Smith's pond being the lowest supply pond on the Hempstead valley. A settling basin was constructed at the head of the storage reservoir under the contract for laying the by-pass pipe, and this basin is of a capacity equal to about three

to four days' flow of the stream. The basin is filled and allowed to remain full until chemical and bacteriological examinations of the water show that it is safe to be utilized for the supply. It is then emptied into the storage reservoir, and is again filled by the flow from Horse brook. This basin has been filled and emptied five times since July 1.

The regular work of maintenance on the conduit line, ponds and feeders, cleaning, etc., was in charge of Mr. John M. Smith until early in July, when he tendered his resignation, and Assistant Engineer George S. Skilton was assigned to this work and has continued in charge of the same.

The cleaning of the closets and cesspools on the watershed has been carried on as usual, and the following schedule shows the number cleaned and the aggregate cost:

Near Foster's Meadow stream.....	1,612
Near Springfield stream.....	1,986
Near Valley stream.....	686
Near Schodack brook.....	370
Near Pines brook.....	468
Near Hempstead.....	9,412
Near Millburn stream.....	225
Near East Meadow stream.....	429
Near Wantagh stream.....	716
Along conduit line.....	2,659

The cost of this work during the year was \$3,950.12.

Protection from Pollution.

The increase in population on our watershed correspondingly increases the cause of pollution, and the evil is aggravated by the difficulty of enforcing the regulations of the State Board of Health to protect streams and ponds used for water supply of cities, and under which years may elapse before adequate remedy is obtained in any case. Our experience in the past warrants this assertion, and as the matter is one of extreme importance, it may be well to quote from the report made by the writer to the Deputy Commissioner for this borough on October 27, 1898, in connection with the abatement of the nuisances at the Springfield stream, which we vainly endeavored for years to secure and were unable to effect. To that report is attached the opinion of the Corporation Counsel as to the proper method to pursue for the abatement of nuisances in accordance with the laws (chapter 661 of the Laws of 1893, sections 70 and 71 of article 5, relating to the protection of potable waters in this State), and in discussing the course prescribed under the law by the Corporation Counsel, the following statement is made in the report:

"In February, 1897, in an extensive report on our water supply alluding to the necessity of action to protect it from pollution, I stated as one of the immediate measures 'the strict enforcement of the regulations of the State Board of Health for the protection of the water supply, and the modification of these regulations enlarging the powers of the Local Board so as to render the action of the latter more efficient against infractors.' The exceedingly cumbersome method prescribed by the statute is totally barren of any useful result, as the very facts we are now discussing prove. We are directed first to notify in writing transgressors that they are violating the law and serve them at the same time with a copy of the State Board regulations. If the notified parties fail to abate the nuisances, we have then to make complaint to the State Board of Health, who, in their turn, order an investigation, and if our complaint is found to be well founded, they direct the Local Board to enforce the regulations, and if the Local Board within ten days 'fail to abate the nuisances' we 'may maintain an action in court' to accomplish this result; and this action is to be tried in the county wherein the nuisances are committed. No more dilatory, cumbersome and practically useless method could be devised, and this was so apparent to me even at the time that I reported to ex-Commissioner Willis that it would be much more advantageous and quicker for the City to convert the Springfield station into a driven well station than to await the result of these lengthy and rather indefinite proceedings. The result has shown the wisdom of that recommendation."

If these conditions are allowed to continue we shall be compelled either to gradually abandon our surface water supply or to filter the water. It will therefore be best to pursue a conservative policy, and, if the exigencies of the service require filtering, to make the filtering plants for individual streams as simple and economical as possible consistent with their efficient operation, since these small plants would be abandoned if the entire supply be ultimately filtered. Preliminary plans have been prepared for the filtering of Horse brook and Simonson's stream, appropriation having been made on May 23 for this work. On the new watershed the streams are much more adequately protected, as The City of Brooklyn pursued a more liberal policy in the purchase of the land along these streams, although still failing to secure all the land the acquisition of which had been recommended by this Bureau as necessary for the adequate protection of the supply.

The map of nuisances on our watershed was revised and brought up to date last August by Assistant Engineer Osterhout, and carefully checked, at my request, by Mr. Osterhout and Mr. Skilton before transmitting it to you for such action as you might deem advisable. Under your directions this may be submitted to Dr. E. J. Lederle, Commissioner of Health, whose representative, Dr. H. V. Walker, accompanied by Assistant Engineer Osterhout, detailed by this Bureau, has made a careful inspection of the nuisances with a view of devising the most effectual method of suppressing them. With the assured co-operation of the Board of Health, it is to be hoped that this result may be speedily accomplished.

Sanitary Inspection and Patrolling and Cleaning of Streams.

The streams on our watershed are regularly cleaned by our men and those where there is danger of pollution carefully patrolled. A sanitary inspection of our watershed is regularly made by the Biologist and Chemist of our laboratory not less frequently than once a month, and in special cases also by some of our Assistant Engineers as well as the laboratory force. A large number of closets along the streams and ponds are provided with pans and systematically emptied and cleaned by the City's force. A detailed schedule of this work has been already given.

Mt. Prospect Laboratory.

During the first quarter of last year, prior to the appointment of a Deputy Commissioner for this borough, when having general supervision here of the work of gas and electricity, I proposed to place the necessary apparatus for gas and electrical tests in the laboratory, and numerous changes were made for that purpose, and the chemical room was enlarged so that all analyses other than those of water could be carried on in that room, a separate one being provided for water analyses. This plan was not carried out owing to the subsequent formation of separate Bureaus of Gas and Electricity, but the changes thus made have proved useful, and, in fact, necessary for the enlarged work of the laboratory in connection with the analyses of the water of the whole Greater New York, and the investigations of the Commission appointed to report upon future sources of supply. In fact, even still larger additions to the laboratory are now in progress.

The schedule of collection of samples for the Borough of Brooklyn has remained practically the same, but more work has been done in analyzing the supplies for the Borough of Queens and for the boroughs of Manhattan and The Bronx. Additional work has also been made necessary by the test of the Springfield and Baiseleys filter plants. The following is a record of the number of analyses of samples from all sources made from January 1 to December 31, inclusive:

Number of samples collected.....	6,021
Number of physical examinations.....	3,135
Number of complete chemical analyses.....	716
Number of partial chemical analyses.....	1,164
Number of microscopical examinations.....	1,349
Number of quantitative bacteriological examinations.....	5,400
Number of tests for B. coli.....	3,084

In addition to the laboratory analyses, the prescribed personal inspection of not less than once a month was made of the sources of supply, with particular attention to the Hempstead, Jamaica and Simonson's streams and other ponds of the old watershed, where the danger of pollution is greatest.

I stated in a previous report that owing to recent investigations the significance of positive tests of B. coli was much less than heretofore, and that there was even reason to doubt that the presence of B. coli was, as hitherto assumed, a positive proof of pollution. While the experimental study of this question is still under way, sufficient progress has been made to confirm the doubts then expressed as to the true

significance of the presence of *B. coli*, as well as to point out the most practical test to ascertain its presence in water and the importance of enhancing the value of the test by applying it to different quantities of water, making the analysis therefore quantitative as well as qualitative. This point is discussed in the report from Mr. George C. Whipple, the Biologist in charge of our Mt. Prospect Laboratory, as will be seen further on. The following extracts cover the main points in Mr. Whipple's report:

"The general physical condition of the water in the supply ponds has not differed materially from that of previous years. The average turbidity was about the same as for 1901, but the maximum figures were not quite as great. The percentages of distinct vegetable odors in the water were somewhat lower, and there was a slight increase in the odors of decomposition in some of the ponds, notably in Simonson's pond. There were comparatively few odors due to microscopic organisms.

"In Hempstead Storage Reservoir the water has been in some respects better than in past years. The albuminoid ammonia was somewhat lower and the free ammonia, nitrates, nitrites and chlorine were lower.

"In Simonson's pond the amount of organic matter has increased somewhat, but on the other hand the number of bacteria per c. c. has been somewhat lower than usual.

"In general, the condition of the ground waters has been normal. In Shetucket, however, the chlorine has continued to increase. In 1901 the average was 388.6 parts per million, while in 1902 it was 433.7. The total solids, hardness, etc., increased accordingly."

The average condition of the water yielded at the watershed during the year 1902, as compared with previous years no very material change. The most important difference is to be found in the increase in the number of positive tests for *B. coli*, which in 1902 averaged 9.6 per cent. of the samples at Ridgewood Pumping Station, when tested in quantity of 1 c. c., as against 3.5 per cent. for 1901, and 4.5 per cent. in 1900 and 1899. The water entering Ridgewood had a somewhat stronger vegetable odor than usual, but there were fewer odors due to decomposition."

The following figures show the average numbers of microscopic organisms in Mount Prospect and Ridgewood reservoirs during the past five years:

	1898.	1899.	1900.	1901.	1902.
Ridgewood, Basin No. 1.....	3,433	4,782	1,426	608	238
Ridgewood, Basin 2.....	3,669	1,115	1,387	740	1,261
Ridgewood, Basin 3.....	1,823	1,872	3,372	790	1,915
Mount Prospect Reservoir.....	8,188	8,891	6,536	3,891	2,935

"The most important feature of the analyses during the year, from the sanitary standpoint, was the decided increase in the number of positive tests for *B. coli* during the months of June, September and October. Excepting during these three months, the percentage of samples of surface waters which give positive tests was not above the normal, but during June and September, and especially during October, the number of positive tests was far above normal and reached figures which have not been approached since the spring of 1899." This is shown by the following table:

Table Showing the Seasonable Distribution of the Positive Tests for *B. coli* in the Surface Waters.

	Per Cent. of Samples Which Give Positive Tests for <i>B. coli</i> .			
	1899.	1900.	1901.	1902.
January .....	..	10	2	6.4
February	8	..	5	1.8
March	25	9	11	1.5
April	20	10	8	4.9
May	33	8	11	15.3
June	12	10	6	27.4
July	13	11	6	5.4
August	8	4	10	3.1
September	9	11	6	30.2
October	2	8	14	40.4
November	10	18	1	12.3
December	2	3	6	12.8

"The cause of the increase in the number of positive tests during these months was probably the high rainfall which occurred. In June, 6.03 inches of rain fell at the Hempstead Storage Reservoir, the highest since 1887. In September the rainfall was 5.54 inches, the highest since 1890, while in October the rainfall was 8.68 inches, which was higher than any record back as far as 1879. Furthermore, the rain came several times as severe storms which suddenly and thoroughly carried the surface dust, street wash, etc., into the streams, and it was observed that the positive tests for *B. coli* were obtained in greatest numbers soon after these heavy rains.

"In order that the abundance of these positive tests may be compared with those of previous years, the following table has been compiled:

Table Showing Results of Tests for *B. coli*.
Per Cent. of Samples Which Gave Positive Tests.

Year.	Surface Water.	Water Entering Reservoir.	Taps in City.
1898	16.5	6.6	..
1899	11.9	4.5	0.6
1900	8.4	4.5	2.7
1901	7.3	3.5	2.5
1902	13.4	9.6	5.6

"During the year 1898 the percentage figures indicate a very high percentage of positive tests. This was due in part to the fact that the more polluted sources were tested more frequently than the unpolluted sources. The same is true, but to a lesser extent, for the figures for 1899. The figures for 1900, 1901 and 1902, however, are considerably comparable. It will be seen that the figures for 1902 are considerably higher than for the two previous years."

Test for *B. coli*.

"During the year considerable attention was given to the test for *B. coli* in water, and several new methods which have been proposed by English bacteriologists were given a trial. The experiments have not been completed as yet, but they indicate in general the following facts:

"1. That the recognition of *B. coli* and its separation from other bacteria which resemble it are matters of very great difficulty.

"2. That it is probable that *B. coli*, instead of finding its habitat solely in the intestines of warm-blooded animals, has a fairly wide distribution in nature. The mere fact, therefore, that it is found in water cannot be considered as definite proof that the water is polluted by sewage.

"3. That the presumptive test for *B. coli*, made in accordance with Smith's original method, somewhat modified for use in this laboratory, is the most practical test of any now being used.

"4. That the value of this test is greatly enhanced by applying it to different quantities of water from the same sample.

"5. That when a sample of water shows the presence of *B. coli* only when large quantities are tested, the water may be considered of satisfactory sanitary quality. But as the amount of water necessary to be tested in order to obtain a positive result decreases, the character of the water becomes more and more suspicious.

"These results have led to the following modification of the test for *B. coli*:

"It is proposed to test the daily samples of water from the Ridgewood Pumping Stations in quantities of water which vary from 1-10 c.c. to 500 c.c., as occasion requires, and to discontinue the tests on the other samples from the distribution system. It is believed that by testing fewer samples and testing each of them more carefully, more valuable results will be obtained."

Quarterly samples were collected from private water companies supplying water to the Borough of Brooklyn and the results showed a satisfactory condition of the supply. In the Borough of Queens the sources of supply owned by the City were examined at intervals of two months, while quarterly examinations were made of the supplies from private companies.

During the year the following miscellaneous tests and analyses were made:

Tests—	
Coal	20
Oil	13
Cement	18
Analyses—	
Sand	47
Asphalt	3
Boiler scale	1
Soda ash	2
Alum	4
Miscellaneous substances	13

Proposed Extension of the Scope of the Laboratory Work.

With a view of ultimately extending the laboratory investigations to the water from the Croton and Kensico watersheds, inspections were made last summer of all the water supplies from these sources, but no analyses were made beyond a few scattered physical and microscopical examinations. From August 5 to the end of the year analyses of water from the distribution system have been made which are thus reported by Mr. Whipple:

"Weekly samples were collected from the end of the Croton Aqueduct at One Hundred and Thirty-fifth street, Manhattan, from the various reservoirs in Central Park, and from a tap in City Hall Square, Manhattan. Samples were also collected somewhat less frequently at the reservoir at Williamsbridge. These reservoir samples were interrupted at various times, owing to pressure of other work. In general they indicate a satisfactory sanitary condition, but an undesirable condition of the water, due to microscopic organisms of various kinds, many of which develop in the reservoirs at Central Park."

Additional Forty-eight-Inch Pipe Conduit.

The work to be done on the additional 48-inch pipe conduit by Contractor William H. Masterson was completed sufficiently to allow the entire line to be utilized from Millburn to Spring creek on September 11, as has already been stated. One or two minor leaks have been discovered on the pipe line since it was put in use, but these have been easily repaired, and no other defects have been found. The filling has been completed, although in the spring the contractor will have to do a little work where the filling has settled and where small washouts have occurred. The total cost of this work was \$827,862.90, and under the terms of the contract five per cent. of the cost of the work (amounting to \$41,393.14) will be retained for the period of one year to insure repairs to any defective work or material.

Damage Suits.

The number of damage suits which have been brought to trial for the diversion of surface and underground waters by the driven well stations has been less than during 1901. The contention of the City that the measure of damages was determined by the reduction in fee and rental value due to the lowering of the spring level in the streams and under the farms has been upheld by the Appellate Division. The awards in those cases which have been tried have been comparatively low, the maximum award being \$500. These suits for damages will unquestionably continue, but under the above ruling the damages awarded will probably be small and will not materially affect the cost of the supply from underground sources.

In the quarterly reports I have called attention to the large amount of work involved in the preparation by the Engineering Staff of the necessary data for the defense of these suits, which becomes more burdensome, owing to the fact that the dates of trial are and generally can only be known to us with very short notice in advance thereof.

Contracts.

During the year 1902 no less than twenty-five complete contracts and specifications have been prepared and forwarded for approval, printing and advertising, as follows:

1. For furnishing semi-bituminous coal (3,500 gross tons) for the Ridgewood Pumping Station.
2. For furnishing and delivering cast-iron pipe specials.
3. For furnishing and delivering hay, straw, oats, feed, oil meal and corn meal.
4. For furnishing and delivering the American Portland cement required for grouting the slopes of the Millburn Reservoir, and for general work of repairs on the conduit line.
5. For furnishing and installing one direct connected steam engine and electric generator at the Millburn Pumping Station and one at the Ridgewood Pumping Station, together with the partial rewiring of the Ridgewood Pumping Station, including lamps, fixtures, switchboards and other appurtenances complete.
6. For furnishing and delivering lubricating and illuminating oils and lubricating grease.
7. For furnishing, delivering, erecting and connecting one new boiler at the Mt. Prospect Pumping Station, in the Borough of Brooklyn.
8. For furnishing, constructing and erecting a pumping plant, with all appliances complete, at the Millburn Engine House, Baldwins, Long Island.
9. For furnishing, delivering, erecting and connecting two new boilers at the Millburn Pumping Station, Baldwins, Long Island.
10. For furnishing a supply of pure and wholesome water at the former boundary line between the Town of Newtown and Long Island City, etc.
11. For furnishing a supply of pure and wholesome water in the First Ward of the Borough of Queens, etc.
12. For furnishing and delivering steam packing, lamp and asbestos wick.
13. For furnishing, delivering and laying water mains in Gravesend, Twenty-third, Twelfth, Thatford, Norwood, etc., etc.
14. For furnishing, delivering and laying a 30-inch force main, together with all its appurtenances complete, etc.
15. For furnishing, delivering and laying in North Washington place, etc., Borough of Queens.
16. For furnishing, delivering and laying water mains in Twenty-ninth street, Eleventh avenue and Seventh avenue, Whitestone, etc., Borough of Queens.
17. For furnishing, delivering and laying water mains in Ninth street, etc., Borough of Queens.
18. For furnishing, delivering and laying water mains in Grand, Fulton and Pierce avenues, etc., Borough of Queens.
19. For constructing a pumping plant and infiltration galleries complete, together with all necessary appliances.
20. For furnishing and delivering semi-bituminous coal and anthracite coal, etc.
21. For furnishing and delivering lubricating and illuminating oils and lubricating grease.
22. For furnishing and delivering hay, straw, oats, feed, oil meal and corn meal.
23. For unloading, hauling, storing and trimming the coal required for various pumping stations, etc.
24. For repairing, reconstructing and improving the Millburn Reservoir.
25. For furnishing and delivering single nozzle case hydrants.

Contracts Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 13 and 14 have been advertised, bids received and the contracts awarded, with the exception of Nos. 13 and 14, bids for these contracts being received on December 30, 1902. The other contracts are either awaiting approval or in the printer's hands.

Records and Accounts.

In the first Quarterly Report for last year I stated as follows:
"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 * * *

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."

The data embodied in our records can be easily ascertained from the Annual Report of Brooklyn for 1896 (the last one printed), from those of previous years and to a certain extent by referring to the schedule of tables which will be given further on. These records are now nearly a year in arrears, owing to the inadequate force both in the main office and at the Ridgewood Pumping Station. The recent appointment of Temporary Clerks at Ridgewood will, we hope, enable us to soon bring the records up to date, and with the late assignment of a Clerk to do this work in the main office, the work here will be gradually pushed to completion. It should be added that in addition to the advantages hereinbefore stated, these records have been invaluable in the defense of the damage suits against the City.

Office Room.

Reference has been made in the three quarterly reports for last year to the inconvenience and considerable loss of time resulting from the allotment of quarters to the force of this Bureau on two separate floors, and it is to be hoped that a better arrangement may soon be effected.

Atlantic Avenue Improvement.

Mr. Van Buren has been in charge of this work. It involves many alterations in our distribution system. Many of the smaller water pipes have already been changed by our men, and complete plans and specifications have been prepared to lay the new large water main from Carlton avenue to Flatbush avenue, which is to take the place of the old 48-inch main on the north side, which will have to be abandoned when the excavations for the Subway reach that point. Plans and specifications are also well advanced for the change in the Underhill avenue main, but await, for completion, the decision of the Atlantic Avenue Improvement Commission in regard to some of the details of their work. The exposure of many of our pipes during the progress of the excavation, and the liability to danger from breaks or leaks has compelled us to constantly maintain Inspectors on the ground. So far no leaks of any importance have occurred. We are now in consultation with the Chief Engineer of the Rapid Transit Commission in regard to the changes that will be required on Fulton street and Flatbush avenue from the City Hall, and will proceed with our part of the work as soon as the Rapid Transit plans are finally decided upon.

Sewer Crossing at Oconee.

I have in years past appeared, on two or three occasions, before the State Board of Health on behalf of this Department, in connection with plans presented for the sewerage of Jamaica, which, as prepared, were a menace to our water supply. The plans were successively modified at those hearings, in accordance with our suggestions, and last year we passed upon and approved the definite plans and specifications for the extensions of the outlet sewer for Jamaica under our conduit. This crossing offered considerable difficulty, and the method to be adopted was discussed at several conferences with the Engineers of the Sewer Department. The latter referred to a plan suggested by us, which offered no difficulties of construction and could be safely awarded by public letting, that of forcing a 36-inch pipe under the conduit, stipulating that the work would be done by Mr. John F. O'Rourke. We agreed to this plan, with the above stipulation, being well acquainted with the unique experience and special qualifications for this work of Mr. O'Rourke, with whom we had, in fact, previously discussed the matter. The work under the above plan consisted in building two shafts at each end of the proposed pipe connection to a depth below the bottom of the sewer, and jacking the castiron pipe laterally from this shaft under our conduit and water mains, the soil being excavated in the pipe, but not ahead of the cutting edge. The pipe to be of cast iron in 5-foot lengths and 3 feet outside diameter, with flanges on the inside, twelve (12) of these lengths to be bolted together, making water-tight joints. Lastly, the pipe was to be lined with concrete flush with the inside of the flanges, giving 28 inches diameter in the clear. The work progressed under these plans until nine (9) sections of pipe (or three less than stipulated with us) were laid, when the construction was stopped owing, as I am informed, to a disagreement between the contractor and the Sewer Bureau of Queens. The pressure used in forcing the pipe reached a maximum of 330,000 pounds. The cost of the work done by Mr. O'Rourke was \$3,000. After some delay, due to the stoppage of the work above referred to, modified plans have been approved to complete the connection by making the necessary excavations on the southerly side of the conduit, carefully sheeting the same and laying a 30-inch iron pipe, in accordance with the specifications of our Department, from the end of the driven pipe to the southerly shaft. Owing to the possibility of danger to our conduit, due to the above work while in progress, and necessity of carefully watching the same, we have constantly maintained an Inspector on the ground. The general supervision was in charge of Assistant Engineer Charles D. Ward.

Surveys in Suffolk County.

Surveys east of Massapequa were commenced during the spring, with the object of establishing a pumping station in Suffolk County, and they were completed in August, but it having been deemed inexpedient to proceed then with the work, the surveys and plotting of the notes were discontinued.

Tables.

The following tables on file in this bureau give in detailed form some important data in connection with the supply and distribution, i. e.:

- No. 1. Monthly record of rainfall at Brooklyn and vicinity, 1893 to 1903.
- No. 2. Monthly record of rainfall at Hempstead Storage Reservoir, 1893 to 1903.
- No. 3. Daily record of rainfall at Brooklyn and vicinity during 1902.
- No. 4. Daily record of rainfall at Hempstead Storage Reservoir during 1902.
- No. 5. Highest, lowest, monthly range of and average temperature for ten years at Hempstead Storage Reservoir.
- No. 6. Summary of average daily consumption for each month for each system, 1902.
- No. 7. Average daily consumption of Ridgewood water.
- No. 8. Average, maximum and minimum daily consumption of Ridgewood water.
- No. 9. Ratio of the daily average consumption for each month to that for the year, from 1893 to 1903.
- No. 10. Average depth and quantity of water in Storage, Ridgewood, Mount Prospect and New Lots Reservoirs.
- No. 11. Showing total monthly and average daily pumping at Ridgewood for the year 1902, rainfall for each month, and proportion of the rainfall corresponding to the pumping.
- No. 12. Cost of repairs to engines, Ridgewood engine house.
- No. 13. Cost of repairs to boilers, Ridgewood engine house.
- No. 14. Cost of repairs to engines and boilers at pumping stations by labor and material from Ridgewood.
- No. 15. Cost of repairs to engines and boilers at Mount Prospect, Gravesend and New Utrecht pumping stations.
- No. 16. Cost of repairs to buildings at the various pumping stations and reservoirs, 1902.
- No. 17. Cost of repairs to driven wells at various driven well stations, 1902.
- No. 18. Water mains laid, gates and hydrants set during 1902.
- No. 19. Water mains laid, gates and hydrants set to December 31, 1902.
- No. 20. Average amount of albuminoid ammonia in surface supply from 1898 to 1902.
- No. 21. Character of the water entering Ridgewood Reservoir from 1898 to 1902.
- No. 22. Character of tap water from 1898 to 1902, analysis from three taps being used.
- No. 23. Table showing the amount of water delivered at the driven well stations from each source of supply during 1902.

Additional Tables (No. 24 to No. 156).

The details of the work done at each of our twenty-two pumping stations, amount of water pumped at each, coal used, cost of pumping for the year and cost of pumping per foot million gallons, with subdivision of expenses due to cost of coal, salaries, supplies and interest and Sinking Fund charges are shown in one hundred and thirty-three tables, i. e., from Table No. 24 to Table No. 156, both inclusive. These tables will be finished as soon as the available force permit.

Appropriations Granted and Requested for the Improvement and Development of the Supply.

The following appropriations for the above purposes were granted last year:

Boilers at Millburn.....	\$22,000 00
Lands for conduit and stations.....	25,000 00
For filtering plants.....	200,000 00
For additional driven well stations.....	154,000 00
For test wells.....	5,000 00
For extension of distribution.....	175,000 00
For consolidation of Gravesend and New Utrecht stations.....	100,000 00

Total appropriations granted..... \$681,000 00

And recommendations have been made by this Bureau for appropriations by bond issue for works to be undertaken this year, being those more urgently needed, as follows:

Additional pumping stations to utilize the underground supply.....	\$350,000 00
Additional distribution mains.....	750,000 00
Removal and replacing of old pipes.....	200,000 00
Purchase of lands for protection from pollution.....	50,000 00
Forest Park Reservoir (assuming only a portion of the work to be done this year).....	500,000 00

Total..... \$1,850,000 00

Under the opinion rendered by the Corporation Counsel September 9, 1902, it would seem that there is available from the water revenue account of Brooklyn "for the improvement and extension of the water system" an amount more than sufficient to provide for the engines for the Reservoir and Tower service at Mount Prospect, assuming that this station were to be continued (say \$70,000), as well as for the remodeling of the Spring Creek station (say \$50,000).

In the report for the quarter ending September 30, to which I beg to refer for further details, the outstanding balances on October 1 from previous appropriations were given, the aggregate balance at that date, somewhat reduced since, being \$281,197.87, from the following accounts, i. e.:

1. Borough of Brooklyn—Water construction. (From the unexpended balances to the credit of the old City of Brooklyn January 1, 1898.)
2. Water Construction—Borough of Brooklyn. (Additional pipe conduit.)
3. Water main fund—Borough of Brooklyn.

It was stated in that report that whether or not these surplus balances could be transferred to and applied to any other works than those for which the appropriations were originally made, was a matter for legal decision.

Additional Trunk Mains.

The appropriation of \$750,000 for additional trunk mains, to which reference has already been made, is intended to provide for two trunk mains and branches, which, for convenience of reference, will be here designated as the northerly and southerly trunk mains. The location of these trunk mains and the approximate location of the branches and cross-connections are shown in the accompanying map.

The northerly trunk main, 48 inches in diameter, starting from Basin No. 3 of the Ridgewood Reservoir, will be laid on Cypress Hills avenue, down Myrtle avenue to Broadway, down Broadway to Park avenue and through Park avenue to Harrison street (which at that point is also designated as Delmonico place). Branches from this point will extend to the Eastern District and to the section lying between the Brooklyn Navy Yard and Fulton street, where the lack of pressure has been severely felt.

The southerly main, also 48 inches in diameter, will be connected directly to the force mains from the Ridgewood Pumping Station, and will be laid through Atlantic avenue to East New York avenue; thence along East New York avenue to the Eastern parkway; along the Eastern parkway to Classon avenue; through Classon avenue to Prospect place, and through Prospect place to Underhill avenue, where connection would be made with the Mount Prospect Station. This location is predicated on the assumption that the main will be used as a distributing main supplying the Mount Prospect Station, and while the pumping at the latter station is less than the capacity of the main, cross-connections between the latter and the other trunk mains will afford sufficient outlet to render the full capacity of the main effective for relief. By this means Atlantic avenue, which now supplies Mt. Prospect Station, would be relieved to the extent of the amount pumped by that station, and increased pressure would be provided through the district bounded by Atlantic avenue, Fourth avenue, Gowanus canal and the East river, where the pressure is now low.

If the southerly main is to be used as a force main from the Ridgewood Station to the Mount Prospect Tower and Reservoir, as required in case the Mount Prospect Station be discontinued, under plans to be hereafter discussed, the location at its lower or west end would vary from that given above. The main would not turn northward into Classon avenue from the Eastern parkway, but continue down the latter street to the reservoir and tower. Under this plan no connections would be made with the existing distributing mains, except for temporary uses in case of a sudden interruption to the service. The relief afforded by this main in this case would normally be equal to the consumption of the high service district, the area of which would be considerably larger than at present.

In addition to these two trunk mains, cross-connections, mainly of 20-inch pipe, will be required in certain sections where, although the supply is sufficient for domestic uses, there is no adequate provision in case of extensive fires.

The length of the northerly main from the reservoir to Debevoise place is about 18,000 feet, and the aggregate length of the two branches about 24,000 feet. The diameter of these branches at their points of connection with the trunk main would probably be 30 and 36 inches and decrease to 20 inches. More observations to ascertain the pressure are required to determine the exact size and location of these branches. The estimated cost of this main and branches is about \$380,000, and it could be completed in about one year.

The length of the southerly main, if used as a distributing main, is about 27,000 feet, and if used as a force main about 2,000 feet less, or say 25,000 feet. The cost has been estimated at \$350,000, and it could also be completed in about one year.

Our records show that the time herein allowed for completion is sufficient, provided there is no difficulty in obtaining the pipe.

Consumption and Waste.

Consumption—Assuming the population of Brooklyn dependent upon the City supply to have been 1,209,400, the average daily consumption in 1902, as shown by the figures previously given, was, in round numbers, 83 gallons per capita, which includes, as already explained, not only actual usage, but waste, errors of measurement, etc. This is a very low rate as compared with that of our large American cities, of which the following, having a population of over 300,000, may be referred to:

City.	Population Supplied.	Average Daily Consumption.	Per Capita.
Baltimore	576,000	56,000,000	97
Boston	560,900	80,000,000	143
Buffalo	400,000	92,365,000	233
Chicago	1,698,600	323,000,000	190
Cincinnati	325,900	39,600,000	121
Cleveland	420,000	66,900,000	159
Detroit	306,055	44,800,000	146
New York (Manhattan and The Bronx).....	2,050,600	255,375,000	124
Philadelphia	1,254,000	287,188,000	229
Pittsburg	234,000	54,000,000	231
St. Louis	400,000	63,530,000	159

The above figures are those reported for the year 1900, and all (except those for New York) by Mr. Geo. I. Bailey and published in the Engineering News. They have been adopted owing to the difficulty of obtaining readily in each case accurate returns of more recent date.

Estimates of future population and consumption can be given and should be accepted simply as approximate, in the most general sense, owing to the unknown factors which affect results. Among the latter, in the case of Brooklyn, may now be mentioned the effect in the development of our borough of the completion of the Rapid Transit System and the proposed bridges, the possible reduction in the per capita consumption owing to the adoption of plans to reduce waste, or an increase in the per capita rate if these plans are not carried out and the pressure and supply are increased, etc. With this reserve, and merely to facilitate the general discussion of this subject, estimates will be given of the future consumption of the whole borough for the next ten years, i. e., from 1903 to 1912, and separate estimates of the consumption in the High Service District for the same period, and also the consumption in that district when it shall have reached its maximum, i. e., when the district has been entirely settled. In preparing these estimates for the whole borough, it has been assumed that the rate of increase in population will be 3.4 per cent., which has been the average rate of increase for the last twenty years, and also practically the average rate of increase for each of the two last ten-year periods, while the consumption per capita has been taken at 83.6 gallons, which is the average for the last ten years on the Ridgewood System.

The estimates of consumption in the High Service District have been prepared assuming a yearly increase in population of 4 per cent., which has been deemed a reasonable average. In the portions of the Eighth, Ninth and Twenty-second wards, which constitute the main part of the High Service District the average rate of increase in population from 1890 to 1898 was estimated some years ago to be 6.3 per cent., and the annual increase in the separate wards, as shown by the police reports and estimates of the Board of Health, ranged from 1.4 per cent. to 10.7 per cent. The average consumption per building in the High Service District in 1899 was somewhat below 800 gallons, and this figure has been adopted in determining the estimated consumption in the High Service District, i. e., assuming the district to be fully developed. Within the limits of the Mt. Prospect Reservoir District, as fixed and reported in 1899, the total number of buildings and lots was 23,474, representing, on the above basis, an ultimate daily consumption of 18,779,200 gallons, and within the Tower District, as outlined on the same date, there were 17,025 buildings and lots, which would require an ultimate supply of 13,620,000 gallons. The dates on which the ultimate development would be reached, on the assumed basis, would be, for the Reservoir District, 1932, and for the Tower District, 1939.

Table Showing the Estimated Population of Brooklyn and Water Consumption from 1903 to 1912.

Year.	Population.	Consumption, Gallons.
1903.....	1,290,790	107,910,644
1904.....	1,334,680	111,579,245
1905.....	1,380,060	115,373,016
1906.....	1,426,980	119,295,528
1907.....	1,475,300	123,351,800
1908.....	1,525,670	127,546,012
1909.....	1,577,540	131,882,344
1910.....	1,631,180	136,366,648
1911.....	1,686,640	141,003,104
1912.....	1,743,990	145,797,564

Assuming the annual rate of increase in population to be 3.4 per cent.
Assuming constant daily consumption per capita 83.6 gallons.

Table Showing the Estimated Daily Consumption from 1903 to 1912 on the High Service District and Consumption 25 Per Cent. Above Normal on the Reservoir District and 50 Per Cent. Above Normal on the Tower District.

Year.	Consumption Mt. Prospect Reservoir.		Consumption Tower.	
	Normal.	25 Per Cent. Above Normal.	Normal.	50 Per Cent. Above Normal.
1903.....	6,000,000	7,500,000	3,500,000	5,250,000
1904.....	6,240,000	7,800,000	3,640,000	5,460,000
1905.....	6,490,000	8,113,000	3,786,000	5,679,000
1906.....	6,750,000	8,438,000	3,937,000	5,906,000
1907.....	7,020,000	8,775,000	4,095,000	6,042,000
1908.....	7,300,000	9,125,000	4,258,000	6,387,000
1909.....	7,592,000	9,490,000	4,429,000	6,642,000
1910.....	7,896,000	9,870,000	4,606,000	6,909,000
1911.....	8,212,000	10,265,000	4,790,000	7,185,000
1912.....	8,540,000	10,675,000	4,981,000	7,472,000

The allowance of 25 per cent. above normal made in the Reservoir District is intended to provide for the maximum daily supply required, and the allowance of 50 per cent. above normal made in the Tower District is intended to meet the maximum daily supply, and is needed owing to the small capacity of the tower.

It is necessary to take into account these allowances in proportioning the pumping capacity at the Mt. Prospect Station, if the latter is to be continued. No provisions for the 50 per cent. margin in pumping capacity will, however, be required if the High Service District is to be directly supplied from Ridgewood.

Waste.—In preparing general estimates of the amount of waste, one of the obvious difficulties is that experienced in reaching a common agreement as to the definition of consumption; i. e., an estimate, for general application, of the amount which should be allowed for consumption, since the latter varies with climate, with mode of life and changes in the same from time to time, with the wealth and character of the communities affected, and even in the same city with the degree of affluence in the various quarters or even between individuals, as well as with the facility of obtaining water and its cost. It is apparent that a great difference in consumption must exist between Florida and Maine, between a small village and our large cities, or between the residential districts of New York City and the poor East Side tenements, and even between determined sections or buildings in those residential districts. In view of these facts, the often quoted European statistics are worth little or nothing in determining a proper standard for our American cities, and even the records of the latter must be limited and qualified by local conditions affecting the result in each particular case; such, for instance, as the more or less efficient system of sewerage (the effects of which on water consumption may be illustrated by reference to New Orleans and Baltimore), or reported or undetected errors of measurement in the supply and distribution, etc., etc.

I have in previous reports discussed the question of waste and its prevention, among others, in the official communication to the Committee on Water and Drainage of the Common Council, which will be found in the Minutes of the Common Council of Brooklyn for February 15, 1897, page 675 et seq.; in the Annual Report of the Department of City Works of Brooklyn for 1896, and in a communication dated March 26, 1902, addressed to Commissioner Dougherty, and additional memoranda furnished to said Commissioner. The following is a brief summary, omitting computations and minor details, of the conclusions arrived at and recommendations made in those reports and communications.

Among other remedial measures to check waste, prominence was given to the adoption of meters, which was recommended as the initial step, stipulating that the cost of the same should be paid by the City, that the introduction should be gradual, and that to guard "against the tendency to reduce, from penurious motives, the amount of water used by the poorer classes in the tenement districts, where often none too much is used now and where it is mostly needed," a fixed minimum rate might be established for various classes of buildings, "based on the amount of water, liberally calculated, which should be used, taking into account the number and occupation of the tenants. For this fixed minimum rate the charge should be low, and for any excess much higher."

Estimates were given of the number of taps in the city, percentage metered, cost of installation, and resulting increased cost per million gallons in the supply, and it was pointed out that the charges for metered and unmetered water, which were then \$100 per million gallons for all purposes for the former and only \$58.50 per million gallons for the latter, were unequally divided and could be more equitably and profitably readjusted, removing at the same time what was, in fact, a heavy discrimination against meters, operating in the public mind as an additional reason against their introduction. This subject will be hereafter further discussed.

In connection with the plan to introduce meters, a suggestion was made by this Bureau to Commissioner Dougherty to meter first the high service districts, after due authority had been obtained, this selection being made because the work could be quickly done and at a relatively small expense, and valuable and necessary data in regard to management and results would be speedily obtained, and because the high service supply being the more costly, better economic results could be obtained from this preliminary essay, and enhance its value as an object lesson. The cost of metering the Brooklyn high service district, both tower and reservoir, was therein estimated at \$120,000, and that of the tower district alone at \$35,000, and I added that the work could be completed within one year in either case, and under favorable conditions in less time. Approximate estimates were also given of the yearly saving which might be obtained in carrying out this plan.

Lastly, estimates were also made for carrying out the well known Deacon system by dividing the city into districts and surveying the latter with a view to localize the large house wastes or leaks in the mains. Under the plan for which these estimates were prepared, in order to reduce the large expense attending the use of the Deacon meter, the measurements were to be taken with the old and well known Pitot tube with an apparatus for continuous record, devised and controlled by Messrs. Cole and Fladd, to which further reference will be made.

These estimates, prepared in February, 1902, after several conferences with Mr. Cole, showed that the approximate cost of surveying the entire city by districts, including the necessary personnel, would be, in round numbers, about \$140,000, so that if the work were divided in four years the annual cost of the same would be about \$35,000. I made no recommendations to carry out in this borough the plan of district surveying in its entirety, because the advantages of the same were more than questionable here, since I did not and do not now believe that the larger portion of such waste as may exist takes place through leaks in the mains, as has been sometimes stated, but that it is due to imperfect plumbing or carelessness in the houses, and if that be the case, that the introduction of meters should be obviously the first step to take. I am led to that conclusion from the observation of a large number of mains which at different times have been exposed in Brooklyn, and in none of which have any leaks of importance been discovered, and from the fact that at various times in past years, when there has been a shortage in the supply and reduction in consumption has been imperative, it has been quickly obtained and to a considerable degree by house to house inspection, while, on the other hand, a very warm or cold day causes an immediate and large increase in consumption, which then represents waste almost exclusively. A striking and recent proof of this last assertion is readily furnished by our New Lots station. The consumption of that district instantly increases with the advent of very cold weather, sometimes, as in December last, as much as thirty per cent., and this high average is maintained nearly at the maximum figures as long as the cold weather lasts, owing, evidently, to the fear on the part of the residents of the comparatively unprotected frame buildings which abound in that district that their service pipes may otherwise freeze.

Similar conditions have been reported from the Metropolitan District of Boston, where the average consumption for the month of November was 102,228,000 gallons, while for the week ending December 13 it reached 133,560,000 gallons, and for one day during that week it attained a maximum of 151,000,000 gallons, thus showing, as stated by Mr. Dexter Brackett, Engineer of the Distribution Department, that from 30,000,000 to 50,000,000 gallons per day had been wasted to prevent freezing of the service pipes.

I decided, therefore, to recommend the survey simply of the High Service District, both as a preliminary work in carrying out, if adopted, the installation of meters already referred to, and in order to determine some leaks in the gates on the boundaries between the High Service and the Ridgewood System.

For the above purpose, as well as to determine the flow and pressure in some of our existing mains so that we might locate the proposed new trunk mains advantageously, I intended to use the Pitot tubes, or pitometers, already referred to. The Pitot tube is an old device, well known to engineers, but it has not been brought in general use owing to the necessity of taking constant readings in order to ascertain results. This difficulty was obviated by the recording apparatus originally invented by the late Mr. Henry Fladd, of St. Louis, former President of the American Society of Civil Engineers, about ten years ago. Mr. Fladd, as I understand it, did not perfect the apparatus, and I believe did not take photographic records, and Mr. Edward S. Cole, some years after, patented his recording device, the improved instrument being designated as the Cole-Fladd Pitometer, and made arrangements with Mr. Fladd's estate to avoid conflicting claims over patents, under which, as I understand it, the latter, as well as the instrument, are now under control of Messrs. John A. Cole & Son.

In order to ascertain the merits of the new device and the applicability of the improved instrument to the work hereinbefore explained, I made several experimental tests. The first of these took place in our Municipal Building, where, in February, 1902, one of these instruments was placed in our basement and its operation carefully watched. These were followed by additional and more extended tests in the same month at the Springfield filter plants, where the results agreed within 2½ per cent. of our weir measurements, and lastly, still more extensive tests were afterward made at our Ridgewood Pumping Station on the 48-inch force main from our south side plant and on the 36-inch main supplied by old No. 3, and while these results have not yet been completely tabulated, it is probable that the error will fall within 3 per cent. of the weir measurements. After the completion of these experiments, definite negotiations with Mr. Cole to furnish the instruments, and, under certain conditions, to do a portion of the work, were undertaken, but the contemplated arrangements have not been perfected owing to the inability of Mr. Cole to furnish us the instruments up to this date, and on account of his engagements on certain engineering investigations.

No addition to or comment upon previous recommendations in regard to waste seems to be now required. I may, however, add that I deem many of the claims advanced as to the ultimate results to be expected in reducing waste as too high, if not unwarranted, and that I am of the opinion that any estimates based on a permanent reduction in the average daily consumption in Brooklyn below 65 or 70 gallons per capita will be ultimately found to have made inadequate allowance for actual conditions. I doubt whether any number of our American Engineers who have had charge of and experience in the supply and distribution of water in our large cities will consider the above estimate of the minimum daily supply, which should be reasonably allowed as too high; and, on the contrary, it would not be difficult to quote competent authorities in support of those figures, or even higher ones. Thus, Mr. James Mansergh, the distinguished and well-known English engineer, and member of the Royal Commission on the Supply of London, than whom, owing to his European training and exceptional professional qualifications, no better and natural representative and advocate of low per capita rates could be found, does not go below from 54 to 60 United States gallons per capita as the quantity to be provided for the supply of the comparatively small city of Toronto, Canada, as stated in his report thereon, published a few years ago; while nearer home a more pertinent and applicable estimate is that made by Mr. Dexter Brackett, already referred to, in which the suitable per capita allowance for the Boston Metropolitan District for the next thirty years is given as 100 gallons, divided as follows:

	Gallons Per Capita.
For domestic use	35
For trade and mechanical purposes	35
Public use	5
Waste	25
Total.....	100

It will be noted that Mr. Brackett assumes that 25 per cent. of the total supply is waste, and that 30 per cent. will not reach paying consumers.

In further support of the preceding statements, it may be proper to add that while the introduction of meters will check house waste it will not reduce the consumption to the extreme figures often claimed, since in many cases the tenants will readily pay the necessary meter charges rather than shorten their usual supply, and in others the meter charge may be much lower than the expense required to make certain plumbing alterations.

Metered and Unmetered Water.

The receipts for 1902 for metered and unmetered water show that those from metered water are about thirty per cent. of the total aggregate revenue from the metered and unmetered supply. Mention has been made of the disparity between the charges for metered and unmetered water, to which attention was called in 1897, and the resulting discrimination against meters, and its effect. The charge for metered water, which at that date was \$100 per million gallons for all purposes, has been increased and is at present \$133.69 per million gallons, so that the disparity then existing is now considerably greater. It will be of interest to determine approximately the existing relation between the metered and unmetered supply and the possible readjustment of rates.

For this estimate the records for 1901 and 1902 will be used and it will be assumed that twenty-five per cent. of the reported consumption represents waste, public uses and under-registering of meters, i. e., water which under present regulations would not be paid for even if the whole supply were metered. The results are as follows:

Receipts.

	1901.	1902.
From metered water.....	\$811,769 14	\$703,211 27
From unmetered water, etc.....	1,841,710 21	1,949,633 31
Total receipts	\$2,653,479 35	\$2,652,844 58

Expenditures.

	1901.	1902.
Expenditures defrayed from Water Revenue, including estimated Sinking Fund to meet the outstanding bonds and interest on the same.....	\$2,559,132 35	\$2,385,273 53
Expenditures defrayed from Tax Levy.....	107,761 10	88,882 70
Total expenditures.....	\$2,666,893 45	\$2,474,156 23

Consumption.

	Gallons.	Gallons.
Total consumption.....	35,303,019,900	36,611,502,550
Deduction for waste, public uses, under registration of meters, etc. (twenty-five per cent.).....	8,825,754,975	9,152,875,637
Net amount of salable water under metered service....	26,477,264,925	27,458,626,913
Consumption of metered water based on receipts....	6,072,033,167	5,260,020,300
Consumption of salable unmetered water.....	20,405,231,758	22,198,606,613

Receipts per million gallons of metered water under present rate	\$133 69	\$133 69
Receipts per million gallons of salable unmetered water....	90 25	87 83
Average receipts per million gallons of all salable water...	100 22	96 61
Cost per million gallons of all salable water, based on expenditures defrayed from Water Revenue, etc.....	96 65	86 87
Cost per million gallons of all salable water, based on expenditures defrayed from Tax Levy.....	4 07	3 24
Cost per million gallons of all salable water, based on total expenditures	100 72	90 11

The difference in cost per million gallons of all salable water, based on the total expenditures between 1901 and 1902, which is about \$10, is due to the large reduction in expenses in the latter year, although the consumption was at the same time increased. As the cost, even at the lower figure, will appear too high, it will be well to explain that it is based, as shown by the above schedule, on a deduction of 25 per cent. for waste, public uses, under-registration of meters, etc., and that the sinking fund charges included in the expenditures are not those that would be due to the depreciation of the plant and the necessity of making provision for its renewal, but are the necessary charges required to redeem bonds which constitute the larger portion of the present bonded debt of the Brooklyn Water Works, and which mature within the next ten years, those charges being abnormally high because in some years no provision whatever has been made for them, and in others the amount allowed has been inadequate.

The above figures for 1902 show:

- 1st. That on the assumed basis the metered water represents about 20 per cent. of the net amount of water which would be sold under the metered service.
- 2d. That the difference in charge per million gallons between the metered and unmetered water is about \$46.
- 3d. That the charges for metered water per million gallons are about \$43 more than the cost per million gallons of all salable water, based on total expenditures.
- 4th. That the receipts per million gallons for unmetered water were on the contrary about \$2 below the actual cost per million gallons of salable water, based on total expenditures; in other words, that the metered water was sold with an approximate profit of 50 per cent. on the total cost, while on the unmetered water the City lost about 2.5 per cent.

A readjustment of rates may be made under two different plans, i. e.:

- 1st. With a view to make the revenue simply sufficient to cover the total expenditures, leaving little or no surplus.
- 2d. With a view to secure the present average receipts per million gallons of water consumed, with a surplus or profit shown above.

Under the first plan, as the average cost of the water per million gallons was \$90, and the present meter charges are \$133.69, the reduction to be made in the metered charges would be \$43.69, equivalent to 32.7 per cent., or practically one-third of the present charges, while the increase in the unmetered water would be equal to about \$2 per million gallons, or 2.5 per cent. over present charges.

Under the second plan, as the average receipts from all the water supplied is \$97 per million gallons, the reduction in the metered rates would be \$36.69, equivalent to 27.4 per cent., or a little over one-fourth of present rates, while the increase in rates for the unmetered water would be about \$9 per million gallons, which would be equivalent to 10.4 per cent over present rates.

As bearing on the possible readjustment, and aiding to explain the high cost of water, previously deduced and to which attention was called, it may be pertinent to note that no charge is at present made for the water supplied for public uses, which probably represents from 5 per cent. to 8 per cent. of the per capita consumption. The cost of the water thus supplied is therefore paid by the other water consumers, unless it be considered that the receipts from the Tax Levy offset the value of the water thus furnished.

As ultimate action in regard to a change in rates will naturally be influenced by public opinion and by the Charter provisions, which prescribe that the water rates shall be uniform throughout the greater City, it has not been intended by any means to present either of the above plans for adoption, but simply to clearly exhibit and illustrate actual conditions, and to show the discrimination at present existing against the metered supply, which, as already stated, must no doubt operate against the general adoption of meters.

Economy Resulting from Preventable Waste.

A brief and general estimate of the economy resulting from a reduction in consumption by the use of meters of from 16 per cent. to 22 per cent. may be of interest.

The present daily per capita consumption has been given before as 83 gallons, and assuming that it may be permanently reduced, as previously suggested, to 65 or 70 gallons, that the cost per million gallons of all salable water is \$90, as figured for the year 1902, and that the population of the district dependent upon the Ridgewood system is, in round numbers, 1,200,000, the results will be as follows, i. e.:

1. With a daily per capita consumption of 70 gallons, the yearly saving in water will be (i. e., a reduction of 15.7 per cent.)
..... gallons 5,700,000,000
Which, at \$90 per million gallons, would amount to..... \$513,000 00

2. With a daily per capita consumption of 65 gallons, the yearly saving in water will be (i. e., a reduction of 21.7 per cent)
..... gallons 7,900,000,000
Which, at \$90 per million gallons, would amount to..... \$711,000 00

If the cost of metering the whole supply be taken at \$10 per million gallons, which is a rough but ample estimate, used by the writer in previous reports in generally discussing this question, the total yearly expense due to metering would be, in round figures, say \$366,000, so that the net yearly economy resulting from metering would be:

On a basis of 70 gallons per capita.....	\$147,000 00
On a basis of 65 gallons per capita.....	345,000 00

This amount represents in either case the value of the water saved, the effects of which would be felt as the consumption increased, and would be equivalent, on the basis of 70 gallons per capita, to the normal increase in consumption for about three years, and on the basis of 65 gallons per capita, to the normal increase of about four years. On the other hand, the expense of metering the City would also be distributed over several years.

To the remarks prefacing the estimates of future consumption, population, etc., calling attention to the necessarily general approximate character of those estimates and forecasts, it may be well to add here that in making those estimates and the preceding calculations it has been deemed superfluous to enter into any refinement of computation or deduction, wasteful, if not risky, when there are so many undetermined factors, and that the chief aim has been to keep statements and figures safely within the bounds of truth, as far as known.

Consolidation of Pumping Stations.

The delay for many years in the past in acting on the recommendations for a timely extension of the supply so as to adequately provide for future requirements, compelled the adoption of temporary and costly expedients to meet the pressing emergencies of the moment as they arose, and this resulted in the establishment of a large number of pumping stations in our system, with a consequent large increase in operating expenses. The writer has referred to the importance of improving these conditions by the consolidation or suppression of some of these stations in previous reports, among which may be mentioned those of 1894, 1895, 1896 and 1897, and lately in the quarterly reports for last year in connection with the adoption of the plan of infiltration galleries therein recommended for the development of the underground supply. With a view to greater economy in this respect, the contracts and specifications recently prepared for the infiltration galleries require the contractor to provide pumping capacity for the period of one year, so that sufficient time may be allowed to experiment upon and study the most advantageous and economical method of operating these various stations from a central one, either by electricity, the transmission of hydraulic power, etc. A further step in this direction has been taken in securing an appropriation for the suppression of the New Utrecht and the development of the Gravesend station, as detailed in the report for the quarter ending September 30, 1902, to which reference may be made for further particulars. As therein shown, the estimated cost of this plan would be \$100,000, and the net yearly saving in expenses \$14,300, which, capitalized at 3 per cent. amounts to \$470,000, or "nearly five times the net estimated outlay for the proposed extension and improvement of the extension, while the efficiency of the service would be greatly increased and its requirements adequately provided for." In these estimates no account was taken of the further outlay of not less than \$50,000, which would be required if both those stations were to be continued in operation, in order to instal new engines at Gravesend and new boilers at both New Utrecht and Gravesend.

Further consolidation by abandoning the Mt. Prospect Station and pumping at Ridgewood the requisite supply for the High Service District may now be considered.

The great advantages of this consolidation were pointed out by me specifically in the report of 1895, but no action has yet been taken thereon, owing to the difficulty of securing the appropriation for the necessary large main from Ridgewood to Mt. Prospect. At present, however, when this main is imperatively needed to provide the requisite pressure and supply, as already outlined under the proper head, that objection no longer exists and we have now the very best opportunity to effect this improvement. The following is a brief outline of the proposed plan:

Work to Be Done.

A new engine and boiler house will be built on the present site, somewhat extended, of the old west boiler house at our north side Ridgewood Station, the boilers of which are low pressure, about 20 years old, and should therefore be replaced as soon as practicable. Two new engines with a daily capacity of fifteen million gallons each will be erected to pump directly into the Mt. Prospect tower and reservoir through a new main, which would be one of the two already recommended and designated as the southerly main. There would be sufficient space in the engine house for the above two engines and for two additional engines to be erected later on, as required, one of which would be assigned to the High Service and the other to Ridgewood. The boiler house would have sufficient capacity for the installation of the necessary boilers. The proposed arrangement is generally shown in the annexed diagram (Diagram No. 3). In laying out these buildings and in proportioning the proposed engines and boilers, provision will be made not only for the requirements of the High Service District up to the date of the ultimate development of that district, as already computed, but also for additions to the pumping capacity of Ridgewood which will insure adequate provision at that station for several years. By this means the water supplied to the High Service District would be pumped only once instead of twice, as at present, and the new High Service engines will relieve the pumping plant required for the Ridgewood service to the extent of the amount pumped directly into Mt. Prospect. This economy will be all the greater, taking into consideration the necessity and advantage, if the Mt. Prospect Station were to be maintained, of at once providing it with new engines and appurtenances at an estimated cost of \$70,000, in accordance with the plan detailed and recommended in the report for the quarter ending September 30, 1902, and bearing also in mind that the 30-inch force main already referred to, and costing about \$18,200, would not be required if the Mt. Prospect Station be discontinued.

Estimated Cost.

New engine and boiler houses at Ridgewood.....	\$150,000 00
New engines	150,000 00
New boilers and auxiliaries.....	60,000 00

Total..... \$360,000 00

Of which there should be deducted and charged to the Ridgewood System, half cost of building..... \$75,000 00

Half cost of one of the engines, since it would avoid the expense of an additional engine at Ridgewood, which otherwise would be required within the next two years.. 37,500 00

Half cost of boilers to replace the old battery on the west side of boiler house 30,000 00 |

Total..... \$142,500 00

There should be further deducted the cost of the new engines required at Mt. Prospect, if this station were maintained, as above stated..... 70,000 00

Total deductions..... 212,500 00

Remainder of total estimated cost chargeable to transfer of High Service pumping to Ridgewood..... \$147,500 00

This amount, however, would be further reduced by the proceeds from the buildings and lands at the Mt. Prospect Station, as follows: 17 lots, \$4,000..... \$68,000 00

Engineer's house on Underhill avenue..... 9,500 00

Total value of lands and building..... 77,500 00

Leaving as the net cost of the transfer herein proposed and chargeable to Mt. Prospect \$70,000 00 |

No account has been taken of the still possible reduction due to the cost of the 30-inch main, if it is not laid, and to the value of the present engines and boilers at the Mt. Prospect pumping station, as well as those of the existing building, which would represent several thousand dollars more.

Resulting Economy.

Assumed working duty of present Ridgewood engines, ft. lbs. per million B. T. U.....	100,000,000
Assumed duty of new engines to be erected at Ridgewood for Mt. Prospect service, ft. lbs. per million B. T. U....	125,000,000
Assumed working duty of engines which have been proposed at Mt. Prospect Station for reservoir service, ft. lbs. per million B. T. U.....	90,000,000
Assumed working duty of engines which have been proposed at Mt. Prospect Station for tower service, ft. lbs. per million B. T. U.....	100,000,000
Assumed working boiler efficiency at both stations, per cent.	68
Average daily supply required in the high service district, gallons	12,000,000
Heat units in coal, B. T. U.....	12,500
Resulting effective heat units in coal, B. T. U.....	8,500
Assumed price of coal, per ton.....	\$5.00
Head on engines at Ridgewood when pumping into the Mt. Prospect tower, ft.....	280
Head on engines at Ridgewood when pumping into the Ridgewood Reservoir, ft.	180
Head on present engines at Mt. Prospect when pumping into reservoir, ft.....	70
Head on present engines at Mt. Prospect when pumping into tower, ft.....	165
Daily amount of coal consumed at Ridgewood when pumping 12,000,000 gallons into the Mt. Prospect tower, tons	11.8
Daily amount of coal consumed at Ridgewood when pumping 12,000,000 gallons into the Ridgewood reservoir, tons	9.5
Daily amount of coal consumed by engines which had been proposed at Mt. Prospect for the reservoir service when pumping 7,500,000 gallons daily, tons.....	2.55
Daily amount of coal consumed by engines which had been proposed at Mt. Prospect for the tower service when pumping 4,500,000 gallons daily, tons.....	3.25
Cost of coal for 12,000,000 gallons pumped from Ridgewood into the Mt. Prospect tower, 11.8 tons at \$5.....	\$59 00
Cost of coal for 12,000,000 gallons pumped from Ridgewood into the Ridgewood reservoir, 9.5 tons at \$5.....	\$47 50
Cost of coal for 7,500,000 gallons pumped from Mt. Prospect station into reservoir, 2.55 tons at \$5.....	12 75
Cost of coal for 4,500,000 gallons pumped from Mt. Prospect station into tower, 3.25 tons at \$5.....	16 25
	76 50
Daily saving in coal by pumping directly from Ridgewood to Mt. Prospect	\$17 50
Or \$6,387.50 per year.	

As the above computations are based on pumping the whole supply to the tower, the district dependent upon the latter could be enlarged without additional expense. The account for labor, material and supplies would remain practically the same when pumping 12,000,000 gallons daily from Ridgewood into the Ridgewood reservoir.

The yearly saving resulting from the suppression of the Mt. Prospect station would therefore be as follows:

Salaries	\$28,498 92
Supplies	5,724 37
Coal, as above	6,387 50
Making a total yearly saving of	\$40,610 79
From which there are to be deducted:	
Interest on net cost, \$70,000 at 3 per cent.....	\$2,100 00
Sinking fund charges on building, \$75,000 at 0.367 per cent....	275 25
Sinking fund charges on engines, \$42,500 at 2.743 per cent....	1,165 77
Sinking fund charges on boilers, \$30,000 at 5.377 per cent....	1,613 10
Total	5,154 12

Leaving at total yearly net saving of \$35,456 67

Which, capitalized at 3 per cent., would represent the sum of \$1,181,889.

While these figures are safe and conservative, assuming the continuance of the present system of water supply in Brooklyn as it now exists, it may be alleged that the introduction of a future supply may eventually supersede totally or in part the High Service supply, for which provision is made in the plan hereinbefore outlined, and, although this contingency is remote, as it does not seem very probable that the new supply would reach the City under an available head equal to that obtained from the tower, and although, therefore, not only this contingency but the date at which it might occur would be entirely conjectural, it is easy to give additional figures to show that even under the most unfavorable hypothesis there would still be a very large saving in carrying out the plan herein proposed. Thus, even if it be assumed that in fifteen years the high service as herein proposed would be entirely dispensed with, the saving for that period would represent (compounding at 3 per cent.) \$659,494.06. For a period of ten years the accumulated saving would be \$406,475.26. And even for the extremely short and utterly improbable term of five years the aggregate saving would be \$188,243.01.

The development, improvement and consolidation of our line stations has been and is under consideration, and a general plan to carry it out has been prepared, which may be thus briefly described:

Assuming the ultimate development of the whole watershed to its full extent, our line stations from Ridgewood to the Suffolk County line would be reduced to nine, exclusive of our Millburn Pumping Station, and located as follows from west to east, i. e.:

1. Spring Creek Station, which may be extended, and the permanent and temporary plants of which would be combined.
2. Oconee Station, which may be extended and the stations at Shetucket and Balseleys suppressed.
3. Jameco Station, which would remain practically as at present.
4. Springfield Station, which may be extended and the Forest Stream Station suppressed.
5. Watts Pond Station, which may be extended and the Clear Stream Station suppressed.
6. Smith's Pond Station, which may be extended.
7. Merrick Station, which may be extended and the present stations of Agawan and Matowa suppressed.
8. Wantagh Station, which may be extended and about 1 1-3 miles eastward.
9. Massapequa Station, which may be extended westward, and easterly nearly to the Suffolk County line.

At the Millburn Station, if required, extensions for short distances east and west may be made.

This plan, as already stated, is based on an ultimate maximum development, so that its execution would be necessarily gradual, according to requirements and circumstances, i. e., the stations would be developed and improved as needed and the length of the extensions regulated accordingly. Six of the existing stations would be suppressed under this plan, as well as the temporary plant at Spring Creek, and as the aggregate salary account of these stations is at present about \$38,000 per year, the magnitude of the reduction in expenses to be obtained, even if the saving in supplies and coal be not considered, is obvious.

Development of Underground Supply.

This subject was discussed at some length in the report for the quarter ending September 30, 1902, and the plan of infiltration galleries as therein described has been adopted for the development of our stations, as detailed above. In fact, if the success of these infiltration galleries confirms our expectations, it would be profitable and we would recommend that they should also be built to replace the driven wells now in use, which would be then discontinued. As detailed above, and should it hereafter be decided and practicable to utilize the underground supply from Suffolk County, or a portion thereof, this plan would probably be the most advantageous for additional stations there.

The experiments and tests made to locate the two first infiltration galleries for which plans and specifications have been prepared, and shortly to be advertised, included the establishment of water contours by the gauging of test wells, the determination of the effective size of sand at some points, which will be further continued, and some tests to determine the velocity of the underground flow. The latter were made chiefly by the method devised by Prof. Chas. S. Slichter. Two determinations were made using a Mille Voltmeter having a resistance of a little over 4 ohms and a range from 0 to 0.3 volts. In the first the wells are driven 10 feet apart along the probable line of flow and the upper well charged with ammonia chloride, while the casings of the first and second wells were connected through with voltmeter using three dry cells. This gave a deflection of about .04 of a volt. In the second well an iron rod 1-4 inch in diameter was suspended, the rod being passed through two rubber stoppers to act as insulators. The three cells gave too great a drop in voltage through the voltmeter and the battery was then reduced to one cell. The deduced velocity of the flow was found to be somewhat over 30 feet a day, or two miles per year, the depth of the wells driven being about 15 feet below the surface of the ground and 8 feet below the underground water level, and this result was confirmed chemically by testing for the chloride of ammonia at the second well.

In the second determination, six wells were driven, the northernmost or upstream well being approximately in the centre of a circle. In the circumference described with a radius of about five feet, two other wells were driven about eighteen inches apart, and the three remaining wells were located in the circumference of a circle with a radius of about ten feet, the distance between the wells being about two feet. The arrangement is shown in the annexed diagram (Diagram No. 5). The results of the second determination closely correspond with those made in the first test. Further tests will soon be completed on a larger number of wells and at a depth of forty feet below the underground level, and these experiments will be repeated during different seasons to ascertain the variations in the rate of flow. Experiments will also soon be made to determine the number of bacteria in the ground at various depths below the surface. A large number of test wells have been driven to determine future variations in the underground water level.

Without entering into specific calculations as to the probable yield of the various stations, it may be generally stated that a sufficient supply can be obtained to adequately provide for the needs of Brooklyn for the next five or six years, assuming the completion of other works now under way or about to be undertaken, and that if the underground waters from Suffolk County are available, sufficient water may be obtained therefrom to supply the needs of Brooklyn probably for twenty years more, or for a much longer period than it is reasonable to assume will be needed to render the larger supply for the Greater City available.

Engineering Force.

Specific recommendations have been made for the necessary increase of the engineering force, who, even by the utmost effort, can scarcely attend to the current requirements of the service and work under construction, and who, in number, will be utterly inadequate to properly take charge of the work under contemplation. The efficiency of the Assistant Engineers, Transmitters and other Employees of this Bureau is more than amply attested by the work of which this report is by no means a complete record.

Respectfully submitted,

I. M. DE VARONA, Chief Engineer.

DEPARTMENT OF STREET CLEANING.

An abstract of the transactions of the Department of Street Cleaning of The City of New York for the week ending August 9, 1903 (section 1546, Greater New York Charter).

BOROUGH OF MANHATTAN AND THE BRONX.

Removal of Incumbrances (Section 545, Greater New York Charter).

Unredeemed incumbrances on hand August 1, 1903.....	146
Incumbrances seized during the week.....	181
Incumbrances redeemed and released.....	327
	156

Unredeemed incumbrances on hand..... 171

Moneys transmitted to City Chamberlain as follows:

For privilege of trimming scows, week ending August 2, 1903.....	\$150 00
For privilege of trimming scows, week ending August 2, 1903.....	1,000 00
For redemption of incumbrances, week ending August 1, 1903.....	222 50

Bills and payrolls transmitted to Comptroller as follows:

Schedule No. 175—Sundry items amounting to.....	\$20,921 16
Schedule No. 177—Sundry items amounting to.....	5,500 00
Schedule No. 179—Sundry items amounting to.....	100 00
Schedule No. 180—J. H. Timmerman, City Paymaster, wages of Firemen and Deckhands on steam dumpers for week ending August 2, 1903.....	192 40
Schedule No. 181—J. H. Timmerman, City Paymaster, wages of Sweepers, etc., for week ending August 6, 1903.....	30,527 61
Schedule No. 182—J. H. Timmerman, City Paymaster, wages of Department Cart Drivers, etc., for week ending August 6, 1903.....	13,931 39

Number of loads of material collected during the week ending August 9, 1903 (August 3 to 9, inclusive):

	Cart Loads Ashes.	Cart Loads Rubbish.	Cart Loads Garbage.	Cart Loads Total.
Department carts	14,610	4,353 1/4	4,798 1/2	23,761 3/4
Permit carts	6,908	898	266	8,072
Total.....	21,518	5,251 1/4	5,064 1/2	31,833 1/4

BOROUGH OF BROOKLYN.

Moneys transmitted to City Chamberlain as follows:

For redemption of incumbrances, week ending August 1, 1903.....	\$39 00
Bills and payrolls transmitted to Comptroller as follows:	
Schedule No. 157—Sundry items amounting to.....	\$6,798 06
Schedule No. 160—J. H. Timmerman, City Paymaster, wages of Sweepers, etc., for week ending August 6, 1903.....	12,706 58
Schedule No. 161—J. H. Timmerman, City Paymaster, wages of Department Cart Drivers, etc., for week ending August 6, 1903.....	8,309 49

Number of loads of material collected during the week ending August 9, 1903 (August 3 to 9, inclusive):

Ashes	7,045
Paper and rubbish.....	1,808 1/2
Permit ashes.....	785

Total..... 9,638 1/2

JOHN McG. WOODBURY, Commissioner.

DEPARTMENT OF FINANCE.

Abstract of Transactions of the Department of Finance for the Week Ending July 18, 1903.

Deposited in the City Treasury.	
To the credit of the City Treasury.....	\$2,616,282 21
To the credit of the Sinking Funds.....	1,301,225 27
Total.....	\$3,917,507 48
Stock and Bonds Issued.	
Three Per Cent. Stock.....	\$1,066,236 65
Three and Three-quarters Per Cent. Bonds.....	510,000 00
Four Per Cent. Bonds.....	15,398 16
Average rate of interest on bonds of this class sold to the public during the term of this bond.....	500,000 00
Total.....	\$2,091,634 81
Warrants Registered for Payment.	
Appropriation Accounts, "A" Warrants.....	\$524,165 23
Special and Trust Accounts, "B" Warrants.....	6,281,803 80
Additional Water Fund, "C" Warrants.....	91,770 92
Total.....	\$6,897,740 01

SUITS, ORDERS OF COURT, JUDGMENTS, ETC.

Court.	Name of Plaintiff.	Amount.	Nature of Suit.	Attorney.
Supreme.	John J. Kenney vs. The City of New York	.....	Copy summons and complaint.....	Edmund F. Driggs.
"	William H. Taubert vs. The City of New York and Elizabeth McPhillips	.....	Notice of judgment for \$76.12 in favor of defendant, E. McPhillips.....	Thomas O'Callaghan, Jr.
"	Maurice S. De Vries vs. Thomas L. Hamilton, County Clerk, and Henry Birrell, Deputy County Clerk.....	\$136 17	Transcript of judgment.....	House, Grossman & Vorhaus.
"	In re application of The City of New York relative to acquiring title to Riverside Drive and Parkway; Conrad Weber and others, executors, petitioners.....	.....	Certified copy order entered at a Special Term, Part I., Supreme Court, June 22, 1903, directing the appointment of Victor J. Dowling as Referee, and that the Comptroller retain the sum of \$5,576.65, award for Parcel No. 228A.....	Joseph A. Flannery.
"	The People, etc., ex rel. James A. Deering, vs. Edward M. Grout, Comptroller, and Edward A. Slattery, as Deputy Collector of Assessments and Arrears, acting as Collector for a peremptory writ of mandamus.....	.....	Copy petition and order to show cause at Special Term, Part I., Supreme Court, July 17, 1903, why a peremptory writ of mandamus should not issue commanding the Comptroller and Deputy Collector of Assessments and Arrears to accept the sum of \$1,042.44, being amount of assessment imposed for construction of sewer in St. Nicholas avenue (west side), etc.....	James A. Deering.
Supreme, Kings....	Charles Sirota vs. The City of New York	.....	Copy summons and complaint.....	Kiendl Bros. Kapp & Law.
Supreme.	In re application of The City of New York relative to acquiring title to Carroll place, from East One Hundred and Sixty-fifth street to McClellan street, Twenty-third Ward.....	.....	Certified copy order entered at a Special Term, Part I., Supreme Court, July 13, 1903, confirming report of Commissioners as to awards.....	Joseph A. Flannery.
"	In re application of The City of New York relative to acquiring title to Carroll place, Twenty-third Ward.....	.....	Certified copy order, entered at a Special Term, Part I., Supreme Court, July 13, 1903, confirming report of Commissioners as to awards.....	"
"	In re application of Peter Duffy for payment of an award for Parcel shown as No. 5 in proceedings to acquire title to public places bounded by East One Hundred and Sixty-first street and Washington avenue, etc.....	.....	Certified copy order, directing that appeal be discontinued and dismissed without costs to either party, entered Special Term, Part II., Supreme Court, July 8, 1903.....	Henry B. Wesselman.
"	James J. Nealis vs. The City of New York	983 40	Transcript of judgment.....	Charles W. Coleman.
"	The People, etc., ex rel. Uvalde Asphalt Paving Company, vs. Edward M. Grout, Comptroller, and William McKinny, Auditor....	.....	Copy petition and notice of motion returnable at a Special Term, Part I., Supreme Court, July 24, 1903, for an order that a peremptory writ of mandamus issue directing the payment of claim of the relator for regulating, grading, etc., Flushing street, Queens.....	P. J. Carlon.
Supreme, Kings....	Augusta Penny vs. The City of New York	.....	Copy summons and complaint.....	Charles J. Ryan.
Supreme.	Max Hofmann vs. The City of New York	.....	Copy summons and complaint.....	Emerich Kohn.
Supreme, Westchester....	In re application of Alexander R. Peacock for the payments of awards for Parcels Nos. 67 and 68 on the Damage Map in proceedings to acquire title to White Plains road, from the northern boundary of The City of New York to Morris Park avenue.....	.....	Certified copy order, entered at a Special Term, Supreme Court, Westchester, July 11, 1903, directing the Comptroller to pay to the petitioner, Alexander R. Peacock, the sums awarded for Parcels Nos. 67 and 68.....	James A. Dunn.
"	In re application of John T. Delaney for the payment of awards for Parcels Nos. 87 and 88 on the Damage Map in proceedings to acquire title to the White Plains road, from the northern boundary of The City of New York to Morris Park avenue.....	.....	Certified Copy order, entered at Special Term, Supreme Court, Westchester, July 11, 1903, directing the Comptroller to pay the petitioner the sum awarded for Parcels Nos. 87 and 88.....	"
Supreme.	In re application of Kenneth Cranford for the payment of an award for Parcel No. 617 on the Damage Map in proceedings to acquire title to White Plains road, from the northern boundary of The City of New York to Morris Park avenue.....	.....	Certified copy order, entered at Special Term, Supreme Court, Westchester, July 11, 1903, directing the Comptroller to pay to the petitioner the sum awarded for Parcel No. 617....	"
Supreme.	In re application of The City of New York relative to acquiring right and title on the North river, between Fourteenth and Fifteenth streets, etc.....	.....	Notice of motion to confirm the report of the Commissioners of Estimate and Assessment to be presented on August 24, 1903, at a Special Term, Part I., of the Supreme Court, First Department.....	"
"	People ex rel. Central Crosstown Railway Company vs. George E. Priest et al., constituting the State Board of Tax Commissioners.....	385 75	Certified copy of judgment, entered in Albany, June 22, 1903, in favor of the Tax Commissioners in the sum of \$385.75.....	George S. Bixby.
"	People ex rel. Central Crosstown Railway Company vs. the State Board of Tax Commissioners.....	.....	Certified copy of final order, filed July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. New York and Harlem Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	H. A. Roberson.
"	People ex rel. Broadway and Seventh Avenue Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. Second Avenue Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. Sixth Avenue Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. Eighth Avenue Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. Ninth Avenue Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. Central Park, North and East River Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. Forty-second Street and Grand Street Ferry Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. Bleeker Street and Fulton Ferry Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. Thirty-fourth Street, Cross-town Railway Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. Fulton Street Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. Twenty-eighth and Twenty-ninth Street Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. the Twenty-third Street Railway Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. the Metropolitan Street Railway Company vs. the State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. Union Railway Company of New York City (Manhattan) vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	Headly, Lauterbach & Johnson.
"	People ex rel. Union Railway Company of New York City (Bronx) vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. Dry Dock, East Broadway and Battery Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. the Forty-second Street, Manhattanville and St. Nicholas Avenue Railway Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. Third Avenue Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
"	People ex rel. Christopher and Tenth Streets Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	George S. Bixby.
"	People ex rel. the Southern Boulevard Railroad Company vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	Headly, Lauterbach & Johnson.
"	People ex rel. the Westchester Electric Railroad Company (Bronx) vs. State Board of Tax Commissioners.....	.....	Certified copy of final order, entered July 15, 1903, Supreme Court, Albany, adjudging the assessment to be excessive and to be reduced as provided therein for year 1900.....	"
County Court, Queens....	People ex rel. Catherine Lewis, plaintiff respondent, vs. F. L. Lewis, defendant appellant....	.....	Order of reversal.....	Dixon & Holmes.

Supreme..	People ex rel. Twenty-third Street Railway Company vs. State Board of Tax Commissioners	329 55	Certified copy of judgment entered in Albany, June 22, 1903, in favor of the Tax Commissioners for \$329.55..	H. A. Robinson.
"	People ex rel. Metropolitan Street Railway Company vs. State Board of Tax Commissioners	470 51	Certified copy of judgment entered in Albany, June 22, 1903, in favor of the Tax Commissioners for \$470.51.	"
"	Michael E. Foody, petitioner, for award in the matter of the opening of Walton avenue, from Tremont avenue to Fordham road.....		Certified copy order, directing the Comptroller to pay award for Damages Nos. 85, 86, 87, at Special Term, Part I., New York County, on July 17, 1903	Arthur H. Wadick.

CLAIMS FILED.

Date.	Name of Claimant.	Amount.	Nature of Claim.	Attorney.
July 13...	New Amsterdam Gas Company	\$511 47	For gas furnished to the City from November 29 to December 31, 1902....	Shearman & Sterling.
" 13..	New Amsterdam Gas Company	8,653 73	For gas furnished and for maintenance and repairs to lamps from May 1 to 31, 1903	"
" 13..	Northern Union Gas Company	6,876 21	For gas furnished and for maintenance and repairs to lamps from May 1 to 31, 1903	"
" 13..	East River Gas Company of Long Island City	74 61	For gas furnished to Queens from December 1 to 31, 1902.....	"
" 13..	East River Gas Company of Long Island City	259 30	For gas furnished to Queens from May 1 to 31, 1903.....	"
" 13..	Caroline Goerrig.....	300 00	Damages for overflow of sewers into property in Brooklyn, as follows:	Wm. W. Southworth.
"	Gotthold Kissling.....	78 00	"	Adam Christmans.
"	Hedwig E. K. Zorn.....	74 00	"	Dailey & Bell.
"	Matthew F. Munz.....	947 91	"	"
"	Max Berkowitz.....	1,019 81	"	"
"	Gustav Heyder.....	215 00	"	"
" 13..	Herman Schleicher and others, executors	612 00	For Commissioner's fees due Rignal D. Woodward in re opening Topping street and Cromwell avenue.....	John J. Gleason.
" 13..	Michael Dymowsky.....	75 00	Damages for injury to wagon and harness by street sweeper machine belonging to the Street Cleaning Department, in front of No. 167 Fourth avenue, June 30, 1903.....	Edward G. Nelson.
" 14..	Association for the Relief of Respectable Aged Indigent Females	682 02	Application for exemption from taxation of property at One Hundred and Third and One Hundred and Fourth streets and Amsterdam avenue, and for remission of taxes for the year 1902, etc.	"
" 14..	Association for the Relief of Respectable Aged Indigent Females	695 18	Application for cancellation of taxes on property at One Hundred and Third and One Hundred and Fourth streets and Amsterdam avenue for 1901.....	"
" 14..	Adolph Baumann.....	275 50	Damages for overflow of sewers into property in Brooklyn:	George F. Alexander.
"	Charles Soelke.....	155 50	"	"
"	Ferdinand Slawiczek.....	177 00	"	"
"	Martin Jacobson.....	744 00	"	Dailey & Bell.
"	Adam Niederbuhl.....	202 38	"	"
"	Frank Rechtman.....	1,060 40	"	"
"	Abraham Nurick.....	451 00	"	"
"	Hyman & Alexander Sussman	4,001 50	"	"
" 14..	Reginald C. Leven.....	2,000 00	Damages for personal injuries received by being thrown out of a hansom cab by reason of defective condition of East Fifty-first street, near corner of Madison avenue, January 23, 1903....	Douglas A. Leven.
" 14..	Vincent F. Hart.....	140 00	Difference in salary as Transitman in The Bronx for months of January, February, March and April, 1902....	"
" 14..	Dena Becker.....	5,000 00	Damages for personal injuries received by slipping and falling on the ice in front of No. 28 West Ninetieth street, January 13, 1903.....	Kenneson, Crain, Emley & Rubino.
" 14..	Daniel Reagan.....	500 00	Damages for overflow of sewer into premises No. 270 Jersey street, First Ward, Richmond, June 20, 1903....	Ryan & Innes.
" 14..	Rachael Purdy.....	3,700 00	Awards made for lands taken by the City in various proceedings:	Truman H. Baldwin.
"	Peabody Home and Reformed Relief Association	5,000 00	"	"
"	Gustave A. Raszewski, assignee of Archibald M. Maclay.....	4,630 00	"	"
"	Catharine Cox, assignee of Julia R. Foley, assignee of Horace K. Ascough.....	880 00	"	"
"	Agnes Reed.....	305 00	"	"
"	New York and Harlem Railroad Company	20,060 00	"	"
"	James C. Fargo, President American Express Company.....	2,031 00	"	"
"	Walter S. Sheaffer and others, executors.....	18,488 68	"	"
" 14..	John McGuire.....	1,250 00	Services rendered by the firm of N. J. & N. J. Waterbury, Jr., to the City of New York in the Acqueduct proceedings	"
" 14..	Nelson J. Waterbury.....		"	"
" 15..	John Gericke.....	250 00	Damages for overflow of sewers into property in Brooklyn, June 29, 1903:	Logan & Holmes.
"	John Eibel.....	300 00	"	"
"	John M. Robinson.....	150 00	"	"
" 15..	Kate Shcedee.....	5,000 00	Damages for personal injuries received by reason of defective sidewalk at northwest corner of Varick and Downing streets, May 18, 1903. Also withdrawal of claim, filed June 4, 1903	Shaw, Fisk & Shaw.
" 15..	Leopold Leiser.....	25,000 00	Damages for personal injuries received by slipping and falling on the ice in front of No. 480 Broadway, Brooklyn, February 10, 1903.....	Felix Reifschneider, Jr.
" 15..	John J. Corcoran.....	178 95	For injury to horse and damage to wagon by cart of Department of Street Cleaning at Forty-fifth street and Eleventh avenue, April 30, 1903.....	"
" 15..	Charles Sutter.....	12,000 00	Damage to market garden land in Queens by the operation of the Spring Creek Pumping Station.....	Charles Coleman Miller.
" 15..	Marks Lazarus.....	51,500 00	Awards for lands taken on Norfolk, Hester and Essex streets, for school site:	"
"	Nathan Schaucupp and another.....	59,500 00	"	Mulqueen & Mulqueen.
" 15..	Isaac Marks.....	35,000 00	Awards for lands taken in re acquiring title to Wiegand place:	"
"	Daniel C. Moynihan.....		Parcel No. 4A.....	A. C. Hottenroth.
" 15..	Daniel C. Moynihan.....		Parcel No. 4AA.....	"
"	Samuel Weis.....	154 90	Damages for overflowing of sewers in Brooklyn:	Dailey & Bell.
"	Clara Schneider.....	219 00	"	"
"	Samuel Melin.....	55 75	"	"
"	Mille Bernhard.....	250 50	"	"
"	George Spatz.....	190 50	"	"
"	Emeline Holmes.....	218 25	"	"
" 15..	Diedrich G. George.....	6,000 00	Damage to market garden land in Queens by the operation of the Spring Creek Pumping Station.....	Charles Coleman Miller.
" 15..	Ernst Neudorffer.....	100 00	Damages for overflow of sewers in Brooklyn:	William O. Miles.
"	Henry Fiedorfer.....	275 00	"	"
"	Max Kramer.....	100 00	"	"
"	Bernard Gravey.....	600 00	"	"
"	Otto Rausweiler.....	140 00	"	"
"	Robinson & Steinman.....	900 00	"	"
"	Julius Greenberg.....	108 70	"	"
"	Carl A. Greenewald.....	950 00	"	Morris & Whitehouse.
"	Henry P. Raben and another.....	200 00	"	"
"	Philip Wingerter and another.....	300 00	"	"
"	Frank Schaefer.....	100 00	"	"
"	Ernst G. Uhlemann.....	250 00	"	"
"	John A. Sturgess.....	450 00	"	"
"	Frederick S. Haslach.....	112 00	"	"
"	Henry Heuser.....	550 00	"	"
"	William Haug.....	200 00	"	"
"	Frederick C. Meyer.....	150 00	"	"
"	Katie Kopp.....	350 00	"	"
"	Catherine Edmie.....	900 00	"	"
"	Henry M. Rusch.....	1,200 00	"	"
"	Emil A. Laud.....	1,400 00	"	"
"	Henri Hendler and another.....	700 00	"	"
"	Henry Schrell and another.....	615 00	"	"
"	Herman H. Kellerman.....	150 00	"	"
"	Charles F. Rogers.....	650 00	"	"
"	Carl Sander.....	1,050 00	"	"
"	Anselm Delm.....	425 00	"	"
"	Carl Sander and another.....	1,700 00	"	"
" 15..	Randolph W. Seaman.....	20,000 00	Damages for personal injuries received by being run into by a horse and wagon belonging to the City in Albany avenue, between Herkimer and Fulton streets, Brooklyn, February 7, 1903	J. Arthur Hilton.
" 16..	George C. Felinghuysen, trustee.....	8,048 38	Awards made for lands taken in re acquiring title to Kingsbridge road:	Joseph A. Flannery.
"	Jane Armstrong, executrix	2,669 61	"	"
"	Theresa E. Hampe.....	4,364 14	"	"
"	Elizabeth D. Rowell.....	10,337 05	"	"
"	John Chambers and another.....	3,917 73	"	"
"	Edward T. Schoonmaker and another.....	3,240 46	"	"
"	Jennie C. Ryan.....	1,297 59	"	"
"	Susan A. Snedeker, administratrix.....	650 18	"	"
"	Mervyn Wolff.....	7,797 23	"	"
"	Mary Ann Hickey.....	1,557 45	"	"
" 16..	Edward Anderson.....	14 50	Damages caused by collision with wagon of the Department of Street Cleaning	"
" 16..	Joseph Sigal and another.....	5,325 00	Damages to property at No. 200 Main street, Queens, caused in preparing said street for the laying of asphalt, by agents of the City, damaging claimants' coal chute, thereby causing rain water to flow in on the premises	Stewart, Findlay & Hickey.
" 16..	The Union Casualty and Surety Company	51 17	Damages by breakage of glass situated in the premises of S. H. Liddle, No. 66 Atlantic avenue, Brooklyn, caused by the running of a hose cart of Truck Company 105 into the same.....	Frederick H. Cluff.
" 16..	John Kaufman.....	10,000 00	Damages for personal injuries, sustained on February 17, 1903, by having his foot caught in an excavation and being thrown to the sidewalk in front of Nos. 9 and 11 Varet street, Brooklyn	William S. Maddox.
" 16..	Katherine Hofferbert.....	48 00	Damages to premises at No. 100 Eldert street, Brooklyn, caused by overflowing sewer	"
" 17..	The Bronx Gas and Electric Company.....	27,840 30	For gas and electricity furnished to The City of New York.....	"
" 17..	Mary Horn.....	600 00	Damages to property at No. 1674 Fulton street, caused by overflowing public sewer	Ephraim Byk.
" 17..	Mark Cowen & Co.....	150 00	For furnishing hat bands to the Tenement House Department.....	Levy & Unger.
" 17..	Samuel Zorn.....	621 00	Damages for overflowing sewers in Brooklyn:	Dailey & Bell.
"	Jacob Schiefer.....	459 75	"	"
"	Maria Trost.....	1,421 98	"	"
"	John G. Picken.....	667 10	"	"
"	Meyer Goldberg.....	1,540 35	"	"
" 17..	Mrs. Mamie McCastline, guardian of Metlar McCastline.....	5,000 00	Damages for personal injuries to said infant Metlar, caused by benches falling upon him in Prospect Park, Brooklyn	Louis F. Hollenbach.
" 17..	Nellie Brown.....	250 00	Damages for personal injuries caused by being thrown into an excavation on Degraw street on May 24, 1903....	Gustave Frey.
" 17..	Awards for lands in re acquiring title to Washington avenue, from Third avenue to East One Hundred and Fifty-ninth street, etc.; William H. Taubert for Parcel No. 90 in award to Elizabeth McPhillips		Notice of claim and pendency of action.	Joseph A. Flannery.
" 17..	Samuel Scharf.....	500 00	Damages to property at No. 48 Walton street, Brooklyn, caused by sewer overflow	Herbert S. Worthley.
" 17..	Frederick Siegler.....	625 01	Damages to property by overflowing sewer at No. 342 Knickerbocker avenue, Brooklyn	Frank Mann.
" 17..	Jessie Scannell.....	2,000 00	For personal injuries sustained on March 9, 1903, at Avenue B and Twenty-first street	Eugene V. Daly.
" 17..	Alexander Rosenthal.....	100 00	For services as counsel in case of the People ex rel., Charles Shapiro vs. H. E. Allison, etc., copy of order dated December 30, 1902, to allow the above compensation to A. S. Rosenthal.....	Jacobson & Siegel.
" 17..	The Central Railroad Company of New Jersey	47 24	Damages to goods on Pier 13 by Department of Docks and Ferries.....	"
" 17..	Bessie P. Hardv.....	201 43	Assessment on premises on west side of Ogden avenue, between One Hundred and Sixty-third and One Hundred and Sixty-fourth streets, alleged to be illegally exacted by The City of New York.....	"
" 17..	Frederick A. Baker.....	300 30	For transcript of testimony delivered to the District Attorney's office from January 1, 1903, to July 1, 1903....	"
" 18..	Hildebrand Baking Company	7 00	Damages to wagon caused by Department of Street Cleaning, cart on July 11	"
" 18..	Marcus Roth.....		Personal injuries caused by being thrown from his wagon in a collision with Department of Street Cleaning cart on August 21, 1902, in front of Nos. 92-94 Dean street, Brooklyn....	"
" 18..	Annie Gannon, per Matthew Gannon, guardian	10,000 00	Damages for personal injuries received on April 27, 1903, at Garnett, near Court street	Martin P. Lynch.
" 18..	John Rice.....	75 00	Damages to property at No. 369 Halsey street, Brooklyn, by overflowing sewer	Ephraim Byk.
" 18..	Ferdinand H. Mela.....	208 88	Repayment of overcharge for privilege of building a vault under walk in front of No. 830 Broadway.....	George I. Woolley.
" 18..	Robert H. Spears.....	125 00	Services as Mechanical Engineer for District Attorney, Queens, in inspecting exploded boiler at Pumping Station No. 2, in Long Island City....	"

CONTRACTS REGISTERED FOR THE WEEK ENDING JULY 18, 1903.

No.	Date of Contract.	Department.	Borough.	Names of Contractors.	Names of Sureties.	Amount of Bond.	Description of Work.	Cost.
7963	July 6	Fire	Brooklyn, Queens	A. Gunnison & Co.....	The Aetna Indemnity Company	\$700 00	For furnishing and delivering kerosene oil for the use of the Fire Department, Boroughs of Brooklyn and Queens.....	Estimate \$1,511 40
7964	" 6	Fire	Manhattan, The Bronx.....	A. Gunnison & Co.....	The Aetna Indemnity Company	700 00	For furnishing and delivering kerosene oil for use of the Fire Department, Boroughs of Manhattan and The Bronx.....	Estimate 1,259 50
7965	" 8	Public Charities.....	All Boroughs.....	A. D. Matthew's Sons.....	A. D. Matthews and H. P. Matthews	870 00	For furnishing and delivering uniforms, etc.....	Estimate 2,084 18
7966	" 2	Street Cleaning.....	Manhattan, The Bronx.....	Ernst F. Hoerig.....	The Aetna Indemnity Company	850 00	For furnishing and delivering 300 tons white ash anthracite stove coal, Boroughs of Manhattan and The Bronx.....	Total 1,707 00
7967	Aug. 6	President of the Borough of Manhattan.	Manhattan	Continental Asphalt Paving Company.....	The United States Fidelity and Guaranty Company; the Empire State Surety Company	2,500 00	For regulating and repaving with asphalt pavement on present pavement relaid as foundation the roadway of Fifteenth street, from Tenth avenue to Eleventh avenue, together with all work incidental thereto, Borough of Manhattan.....	Estimate 5,985 58
7968	July 9	President of the Borough of The Bronx.	The Bronx	James Malloy, Michael Sexton and John F. Cogan, composing the firm of James Malloy & Co.	Fidelity and Deposit Company of Maryland; the Aetna Indemnity Company.....	100,000 00	For regulating and grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and placing fences in White Plains road, from Morris Park avenue to the northern boundary line of The City of New York, together with the work incidental thereto, Borough of The Bronx.....	Estimate 420,477 50
7969	" 9	President of the Borough of The Bronx.	The Bronx	Ashbel G. Vermilye.....	The Aetna Indemnity Company	7,500 00	For regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and placing fences in Mapes avenue, from East One Hundred and Seventy-seventh street to East One Hundred and Eighty-second street, together with the work incidental thereto, Borough of The Bronx.....	Estimate 16,678 40
7970	" 9	President of the Borough of The Bronx.	The Bronx.....	Uvalde Asphalt Paving Company	The Empire State Surety Company	6,000 00	For regulating and grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and placing fences in Weeks avenue, from Claremont Park to the Grand Boulevard and Concourse, together with the work incidental thereto, Borough of The Bronx.....	Estimate 12,327 60
7971	" 3	President of the Borough of Brooklyn..	Brooklyn	Michael J. Moran.....	American Surety Company of New York.....	600 00	For constructing sidewalks on the west side of Graham street, between Flushing avenue and Park avenue, etc., etc., Borough of Brooklyn	Estimate 1,631 42
7972	" 3	President of the Borough of Brooklyn..	Brooklyn	Michael J. Moran.....	American Surety Company of New York.....	1,000 00	For constructing sidewalks in front of certain lots, northeast side of Conover street, between Van Dyke street and Coffey street, etc., etc., Borough of Brooklyn.....	Estimate 3,254 24
7973	" 8	President of the Borough of Brooklyn..	Brooklyn	Murphy Brothers.....	The Empire State Surety Company	1,200 00	For regulating, grading and paving with granite pavement on a sand foundation the roadway of Mermad avenue, from Fifteenth street to Stillwell avenue, together with all work incidental thereto, Borough of Brooklyn.....	Estimate 5,184 62
7974	" 9	President of the Borough of Brooklyn..	Brooklyn	Uvalde Asphalt Paving Company	The Empire State Surety Company; the City Trust, Safe Deposit and Surety Company of Philadelphia..	9,000 00	For regulating, grading and paving with asphalt pavement on a concrete foundation the roadway of Linden avenue, from Flatbush avenue to Rogers avenue, together with all work incidental thereto, Borough of Brooklyn.....	Estimate 18,904 00
7975	June 25	President of the Borough of Brooklyn..	Brooklyn	James Jennings.....	Fidelity and Deposit Company of Maryland; American Surety Company of New York	Same as Contract No. 2863.	Agreement for cancellation of Contract No. 2863, for constructing a sewer in Belmont avenue, between Sackman street and Powell street, with an outlet sewer in Belmont avenue, from Powell street to Vesta avenue, Borough of Brooklyn. (See Contract No. 2863.)	
7976	July 9	Water Supply, Gas and Electricity.....	Manhattan, The Bronx.....	John Fox and Nicholas Engel, composing the firm of John Fox & Co.	The United States Fidelity and Guaranty Company.....	3,000 00	For furnishing and delivering stop cocks and hydrants, Boroughs of Manhattan and The Bronx.....	Estimate 15,101 62
7977	" 9	Water Supply, Gas and Electricity.....	Richmond	Ph. Wolff and Chas. L. Wolff, composing the firm of Ph. Wolff & Son	American Bonding Company of Baltimore.....	1,000 00	For furnishing materials and building a storehouse and a boiler house at the Tottenville Pumping Station, Borough of Richmond	Total 5,732 00
7978	June 30	Docks and Ferries.....	Manhattan	R. G. Packard Company	The Aetna Indemnity Company; Fidelity and Deposit Company of Maryland.....	12,000 00	For dredging at the Peck slip section, on the East river, Borough of Manhattan.....	Estimate 20,880 00
7979	July 1	Docks and Ferries.....	Manhattan	Empire Timber Company	The City Trust, Safe Deposit and Surety Company of Philadelphia	6,000 00	For furnishing and delivering about 1,000 piles.....	Estimate 13,950 00
7980	June 30	Parks	The Bronx.....	Joseph Gallo.....	American Surety Company of New York.....	20,000 00	For constructing a concrete steel arch bridge, with stone parapet walls and stone arch facings, over the Bronx river, at the crossing of the Bronx and Pelham parkway, in Bronx Park, Borough of The Bronx.....	Estimate 48,662 00
7981	July 6	Parks	Manhattan, Richmond	John Byrns	National Surety Company.....	4,000 00	For work and materials for Contract No. 2, for the entire plumbing and interior finish of two shower bathrooms, in the pavilion to be erected in the William H. Seward Park, East Broadway and Jefferson street, Borough of Manhattan.....	Total 16,900 00
7982	June 30	Parks	Brooklyn, Queens	James H. Whaley.....	The Empire State Surety Company	2,000 00	For paving with cement the walks around Bushwick Park and Institute Park, Borough of Brooklyn.....	Estimate 4,985 00
7983	July 13	President of the Borough of The Bronx.	The Bronx.....	Michael J. Maher.....	Fidelity and Deposit Company of Maryland.....	7,000 00	For regulating and grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and placing fences in East Two Hundred and Fifth street, from Mosholu parkway to Jerome avenue, together with the work incidental thereto, Borough of The Bronx.....	Estimate 13,952 00
7984	" 9	President of the Borough of The Bronx.	The Bronx.....	The Barber Asphalt Paving Company.....	The City Trust, Safe Deposit and Surety Company of Philadelphia; National Surety Company.....	3,000 00	For reregulating, setting and resetting curbstones and repaving with asphalt pavement on a concrete foundation, a portion of the roadway of East One Hundred and Sixty-eighth street, from Webster avenue to Franklin avenue, together with all work incidental thereto, Borough of The Bronx.....	Estimate 9,244 50
7985	June 22	President of the Borough of Brooklyn..	Brooklyn	Thomas G. Carr.....	The Empire State Surety Company	Same as Contracts Nos. 6693 and 7420.	For modification of Contracts Nos. 6693 and 7420, for the erection and completion of a Public Comfort Station, underground, at the junction of Fulton street and Flatbush avenue, Borough of Brooklyn, changing plans and specifications by omitting items Amounting to \$2,439 40 And substituting items amounting to 2,023 83 Making a reduction in original estimate of..... \$415 57	
7986	July 6	President of the Borough of Brooklyn..	Brooklyn	George & Farrell.....	The United States Fidelity and Guaranty Company.....	1,800 00	For regulating, grading and paving with granite pavement on a sand foundation the roadway of Vermont street, from Jamaica avenue to Sunnyside avenue, together with all work incidental thereto, Borough of Brooklyn.....	Estimate 4,212 90
7987	" 8	President of the Borough of Brooklyn..	Brooklyn	Maurice F. Hickey.....	The Aetna Indemnity Company	1,600 00	For regulating, grading and paving with granite pavement on a sand foundation the roadway of Mill street, from Henry street to Hicks street, together with all work incidental thereto, Borough of Brooklyn.....	Estimate 3,568 70
7988	" 6	President of the Borough of Brooklyn..	Brooklyn	William Fitzgerald.....	The Aetna Indemnity Company	11,000 00	For regulating and repaving with granite pavement on a concrete foundation the roadway of Greene street, from West street to end of pavement between Oakland and Provost streets, together with all work incidental thereto, Borough of Brooklyn	Estimate 30,768 15
7989	" 6	President of the Borough of Brooklyn..	Brooklyn	William Fitzgerald.....	The Empire State Surety Company; the Aetna Indemnity Company.....	18,000 00	For regulating and repaving with granite pavement on a concrete foundation the roadway of Prospect avenue, from Seventh avenue to a point 240 feet east of Eleventh avenue, together with all work incidental thereto, Borough of Brooklyn.....	Estimate 55,354 40
7990	" 6	President of the Borough of Brooklyn..	Brooklyn	William Fitzgerald.....	The Aetna Indemnity Company	11,000 00	For regulating and repaving with granite pavement on a concrete foundation the roadway of Meserole street, from Union avenue to Waterbury street, together with all work incidental thereto, Borough of Brooklyn.....	Estimate 32,822 20
7991	" 6	President of the Borough of Brooklyn..	Brooklyn	Inter-State Paving Company	The Aetna Indemnity Company; the City Trust, Safe Deposit and Surety Company of Philadelphia.....	54,000 00	For regulating and repaving with asphalt pavement on present pavement as a foundation the roadway of Bushwick avenue, from Metropolitan avenue to Mauger street; Bushwick avenue, from Ten Eyck street to Montrose avenue; Bushwick avenue, from McKibben street to Flushing avenue; Bushwick avenue, from Arion place to Myrtle avenue. Also repaving with asphalt pavement on a concrete foundation the roadway of Bushwick avenue, from Myrtle avenue to Eastern parkway, together with all work incidental thereto, Borough of Brooklyn	Estimate 161,818 00
7992	" 10	President of the Borough of Brooklyn..	Brooklyn	Daniel Douglass.....	The Aetna Indemnity Company	5,500 00	For regulating, grading, curbing and laying sidewalks on Nichols avenue, from Jamaica avenue to Atlantic avenue, together with all work incidental thereto, Borough of Brooklyn.....	Estimate 16,522 40

7993	"	9	President of the Borough of Brooklyn..	Brooklyn	P. J. Murray.....	The Aetna Indemnity Company	2,000 00	For constructing sewer and appurtenances in East Thirty-second street, from Avenue C to Newkirk avenue, together with all work incidental thereto, Borough of Brooklyn.....	Estimate	2,896 00
7994	"	9	President of the Borough of Brooklyn..	Brooklyn	P. J. Murray.....	The Aetna Indemnity Company	4,000 00	For constructing sewer and appurtenances in East Thirty-fourth street, from Avenue F to Glenwood road, and outlet sewer in Glenwood road, between East Thirty-fourth street and Nosstrand avenue, together with all work incidental thereto, in the Borough of Brooklyn.....	Estimate	7,439 85
7995	"	9	President of the Borough of Brooklyn..	Brooklyn	P. J. Murray.....	The Aetna Indemnity Company	1,300 00	For constructing sewer and appurtenances in New York avenue, from Avenue F to Avenue G, together with all work incidental thereto, Borough of Brooklyn.....	Estimate	2,115 00
7996	"	9	President of the Borough of Brooklyn..	Brooklyn	P. J. Murray.....	The Aetna Indemnity Company	1,300 00	For constructing sewer and appurtenances in East Thirty-first street, from Avenue F to Avenue G (Glenwood road), together with the work incidental thereto, Borough of Brooklyn.....	Estimate	2,149 50
7997	"	9	President of the Borough of Brooklyn..	Brooklyn	P. J. Murray.....	The Aetna Indemnity Company	1,300 00	For constructing sewer and appurtenances in East Thirty-second street, from Avenue F to Avenue G, together with the work incidental thereto, Borough of Brooklyn.....	Estimate	2,198 00
7998	"	10	President of the Borough of Brooklyn..	Brooklyn	James Jennings.....	The Empire State Surety Company	70 00	For constructing sewer basin and appurtenances at the northwest corner of Humboldt street and Norman avenue, together with all work incidental thereto, Borough of Brooklyn.....	Estimate	145 00
7999	"	10	President of the Borough of Brooklyn..	Brooklyn	James Jennings.....	The Empire State Surety Company	1,000 00	For constructing sewer and appurtenances in Seventy-seventh street, from Fourth avenue to Fifth avenue, together with the work incidental thereto, Borough of Brooklyn.....	Estimate	1,800 30
8000	May 28	Education	Manhattan	Abraham L. Saruya.....	The Aetna Indemnity Company	3,000 00	For installing electric light wiring, fixtures and electric bell system in New Public School 183, on the north side of Sixty-sixth street, 163 feet east of First avenue, Borough of Manhattan	Total	5,634 00	
8001	June 25	Fire	Brooklyn	James McFerran.....	National Surety Company; Fidelity and Deposit Company of Maryland.....	35,000 00	For the erection and completion of a new building for Engine Company No. 146, to be located on the easterly side of East Twenty-third street, about 270 feet south of Voorhees avenue, Sheepshead Bay, and a new building for Engine Company No. 145, to be located on the easterly side of West Eighth street, about 847 feet south of Sheepshead Bay road, Coney Island, Borough of Brooklyn.....	Total	69,739 00	
8002	July 6	Board of Elections...	All Boroughs	Martin B. Brown Co....	The Union Surety and Guaranty Company.....	20,000 00	For furnishing and delivering stationery, printing and supplies for election purposes	Total	34,293 00	
8003	"	6	Education	Brooklyn	George Hildebrand.....	The Empire State Surety Company	800 00	For alterations, repairs, etc., to Manual Training High School Annex, Seventy-first street, near Second avenue, Borough of Brooklyn	Total	1,798 00
8004	"	6	Education	Brooklyn	Philip E. Smyth.....	The Empire State Surety Company	700 00	For alterations, repairs, etc., to Public School 96, Ocean avenue, corner of Avenue B; Public School 98, Avenue Z and East Twenty-sixth street, Borough of Brooklyn.....	Total	1,272 00
8005	"	6	Education	Brooklyn	Edgar B. Stidd.....	The Empire State Surety Company	600 00	For alterations, repairs, etc., to Public School 101, Eighty-sixth street, near Eighteenth avenue; Public School 104, Fifth avenue, corner of Ninety-second street, Borough of Brooklyn.....	Total	1,020 00
8006	"	2	Education	Brooklyn	S. L. Hough.....	Geo. W. Green; Theodore E. Green	3,000 00	For alterations, repairs, etc., to Girls' High School, Nostrand avenue, between Macon and Halsey streets, Borough of Brooklyn	Total	5,497 00
8007	June 29	Education	Brooklyn	John H. Goetchius.....	The City Trust, Safe Deposit and Surety Company of Philadelphia	1,800 00	For alterations, repairs, etc., to Erasmus Hall High School, Flatbush avenue, near East Broadway, Borough of Brooklyn.....	Total	3,995 00	
8008	July 6	Education	The Bronx.....	William H. Wright & Son	The Empire State Surety Company	2,500 00	For alterations, repairs, etc., to Public School 5, No. 2436 Webster avenue, Fordham; Public School 8, Moshulu parkway, Bainbridge and Briggs avenues, Bedford Park; Public School 32, One Hundred and Eighty-third street, Beaumont and Cambrling avenues, Borough of The Bronx.....	Total	4,572 00	
8009	"	6	Education	The Bronx.....	Almeman & Younkheere.	A. W. Gerstner; David E. Powers	400 00	For alterations, repairs, etc., to Public School 7, Church street, Kingsbridge, Borough of The Bronx.....	Total	630 00
8010	"	6	Education	The Bronx.....	Hahn & O'Reilly.....	American Bonding Company of Baltimore.....	1,100 00	For alterations, repairs, etc., to Public School 12, Second avenue, Washington and Madison streets, Westchester; Public School 21, Eleventh street and White Plains avenue, Williamsbridge, Borough of The Bronx.....	Total	1,787 00
8011	June 2	Education	The Bronx.....	August Braennig.....	The United States Fidelity and Guaranty Company....	500 00	For alterations, repairs, etc., to Public School 11, Ogden avenue, Highbridge, Borough of The Bronx.....	Total	1,122 00	
8012	"	24	Education	Manhattan, Brooklyn, Queens	George W. Montgomery.	The Aetna Indemnity Company	500 00	For furnishing and delivering school supplies for vacation schools, playgrounds, baths and evening recreation centres of The City of New York, Boroughs of Manhattan, Brooklyn and Queens.....	Estimated cost as per Comptroller's certificate, \$1,000.	
8013	"	29	Education	Manhattan	E. Rutzler.....	Fidelity and Deposit Company of Maryland.....	200 00	For improving new lots, etc., Item 3, at Public School 112, No. 83 Roosevelt street, Borough of Manhattan.....	Total	224 00
8014	July 13	Parks	Manhattan, Richmond	Louis Wechsler.....	Fidelity and Deposit Company of Maryland.....	500 00	For work and materials for alterations, repairs, etc., in the Metropolitan Museum of Art, Borough of Manhattan.....	Total	1,475 00	
8015	"	9	Water Supply, Gas and Electricity....	Brooklyn	The Morrisdale Coal Co.	The United States Fidelity and Guaranty Company....	15,000 00	For furnishing and delivering coal, Borough of Brooklyn.....	Estimate	106,642 20
8016	"	6	Street Cleaning....	Manhattan, The Bronx.....	John F. Steeves, Henry H. Barnard and Bradley L. Eaton, composing the firm of Church E. Gates & Co.....	American Surety Company of New York.....	2,050 00	For furnishing and delivering yellow pine lumber, Boroughs of Manhattan and The Bronx.....	Total	3,361 15
8017	June 24	Fire	Richmond	George L. Foote, Henry G. Pierson and Charles Freeman, composing the firm of Foote, Pierson & Co.....	American Surety Company of New York.....	1,500 00	For the installing and completing of fire alarm telegraph switchboard in the Borough of Richmond.....	Total	2,685 00	
8018	"	16	President of the Borough of Richmond	Richmond	The Richmond Light and Railroad Company....	Fidelity and Deposit Company of Maryland.....	2,000 00	For sprinkling parts of certain highways in the Borough of Richmond	Estimate	3,371 76
8019	"	16	President of the Borough of Richmond	Richmond	Staten Island Midland Railroad Company....	Fidelity and Deposit Company of Maryland.....	2,000 00	For sprinkling parts of certain highways in the Borough of Richmond		2,721 60

Approval of Sureties for the Week Ending July 18, 1903.

The Comptroller approved of the adequacy and sufficiency of the sureties on the following proposals, viz.:

July 13, 1903—For regulating, etc., Green street, Borough of Brooklyn—For the President of the Borough. J. Charles Weschler, No. 309 Broadway, Principal. Henry Roth, No. 655 Willoughby avenue; John Welz, No. 74 Cornelia street, Sureties.

July 13, 1903—For regulating, etc., Stewart street, Borough of Brooklyn—For the President of the Borough. J. Charles Weschler, No. 309 Broadway, Principal. Henry Roth, No. 655 Willoughby avenue; John Welz, No. 74 Cornelia street, Sureties.

July 13, 1903—For building sewer basins, Borough of Brooklyn—For the President of the Borough. Chapman & Ryan, No. 156 Third avenue, Principals. The Empire State Surety Company, No. 375 Fulton street, Borough of Brooklyn, New York City, Surety.

July 13, 1903—For regulating, etc., Seigel street, Borough of Brooklyn—For the President of the Borough. J. Charles Weschler, No. 309 Broadway, Principal. Henry Roth, No. 655 Willoughby avenue; John Welz, No. 74 Cornelia street, Sureties.

July 13, 1903—For paving with asphalt Somers street, Borough of Brooklyn—For the President of the Borough. Eastern Bermudez Asphalt Paving Company, No. 26 Court street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; The City Trust, Safe Deposit and Surety Company of Philadelphia, No. 160 Broadway, Sureties.

July 13, 1903—For paving with asphalt Arion place, Borough of Brooklyn—For the President of the Borough. Eastern Bermudez Asphalt Paving Company, No. 26 Court street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; The City Trust, Safe Deposit and Surety Company of Philadelphia, No. 160 Broadway, Sureties.

July 13, 1903—For paving with asphalt Euclid avenue, Borough of Brooklyn—For the President of the Borough. Eastern Bermudez Asphalt Paving Company, No. 26 Court street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; The City Trust, Safe Deposit and Surety Company of Philadelphia, No. 160 Broadway, Sureties.

July 13, 1903—For paving with asphalt Irving avenue, Borough of Brooklyn—

For the President of the Borough. Eastern Bermudez Asphalt Paving Company, No. 26 Court street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; The City Trust, Safe Deposit and Surety Company of Philadelphia, No. 160 Broadway, Sureties.

July 13, 1903—For paving with asphalt Weldon street, Borough of Brooklyn—For the President of the Borough. Eastern Bermudez Asphalt Paving Company, No. 26 Court street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; The City Trust, Safe Deposit and Surety Company of Philadelphia, No. 160 Broadway, Sureties.

July 13, 1903—For paving with asphalt Ainslie street, Borough of Brooklyn—For the President of the Borough. Eastern Bermudez Asphalt Paving Company, No. 26 Court street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; The City Trust, Safe Deposit and Surety Company of Philadelphia, No. 160 Broadway, Sureties.

July 13, 1903—For paving with asphalt Johnson avenue, Borough of Brooklyn—For the President of the Borough. Eastern Bermudez Asphalt Paving Company, No. 26 Court street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; The City Trust, Safe Deposit and Surety Company of Philadelphia, No. 160 Broadway, Sureties.

July 13, 1903—For regulating, etc., Goodrich street, Borough of Queens—For the President of the Borough. National Trading Company, New York, Principals. The Empire State Surety Company, No. 375 Fulton street, Borough of Brooklyn, New York City, Surety.

July 13, 1903—For regulating, etc., Thirteenth avenue, Borough of Queens—For the President of the Borough. John H. Scully, No. 70 West One Hundred and Twenty-sixth street, Principal. The United States Fidelity and Guaranty Company, No. 140 Broadway, Surety.

July 13, 1903—For regulating, etc., North William street, Borough of Queens—For the President of the Borough. John H. Scully, No. 70 West One Hundred and Twenty-sixth street, Principal. The United States Fidelity and Guaranty Company, No. 140 Broadway, Surety.

July 13, 1903—For new boilers at Bayside and Flushing pumping stations, Borough of Queens—For the Department of Water Supply, Gas and Electricity. Williams & Gerstle, No. 347 East Forty-fourth street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway, Sureties.

- July 13, 1903—For building pipe sewers in Tottenville, Borough of Richmond—For the President of the Borough. E. K. Whitford, No. 104 Kohnten avenue, Principal. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 13, 1903—For paving with asphalt Greenpoint avenue, Borough of Queens—For the President of the Borough. Continental Asphalt Paving Company, No. 32 Broadway, Principals. The Empire State Surety Company, No. 375 Fulton street, Borough of Brooklyn, New York City; The United States Fidelity and Guaranty Company, No. 140 Broadway, Sureties.
- July 13, 1903—For paving with asphalt Franklin street, Borough of Queens—For the President of the Borough. Continental Asphalt Paving Company, No. 32 Broadway, Principals. The Empire State Surety Company, No. 375 Fulton street, Borough of Brooklyn, New York City; The United States Fidelity and Guaranty Company, No. 140 Broadway, Sureties.
- July 13, 1903—For regulating, etc., Fifty-fifth street, Borough of Brooklyn—For the President of the Borough. Fred Luck, No. 1522 Newkirk avenue, Principal. The Empire State Surety Company, No. 375 Fulton street, Borough of Brooklyn, New York City, Surety.
- July 13, 1903—For furnishing 300 tons of white-ash coal, Borough of Brooklyn—For the Department of Street Cleaning. Ernst F. Hoerig, No. 910 East Fifth street, Principal. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 14, 1903—For furniture for old school buildings, Borough of Brooklyn—For the Department of Education. Richmond School Furniture Company, No. 94 Spring street, Principals. The Empire State Surety Company, No. 375 Fulton street, Borough of Brooklyn, New York City; National Surety Company, No. 346 Broadway, Sureties.
- July 14, 1903—For furniture for Public School 186, Borough of Manhattan—For the Department of Education. Richmond School Furniture Company, No. 94 Spring street, Principals. National Surety Company, No. 346 Broadway, Surety.
- July 14, 1903—For furnishing and delivering fireboat water towers, The City of New York—For the Department of Fire. The Woodhouse Manufacturing Company, No. 59 Park place, Principals. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 14, 1903—For rubber suction and hydrant connections, The City of New York—For the Department of Fire. Manhattan Rubber Manufacturing Company, No. 18 Vesey street, Principals. American Surety Company of New York, No. 100 Broadway, Surety.
- July 14, 1903—For additional apparatus for fire alarm telegraph system, Borough of Richmond—For the Department of Fire. Foote, Pierson & Co., No. 82 Fulton street, Principals. American Surety Company of New York, No. 100 Broadway, Surety.
- July 14, 1903—For furniture for Public School 186, Borough of Manhattan—For the Department of Education. Louis Gluck, No. 211 East Fifty-ninth street, Principal. The Union Surety and Guaranty Company, No. 135 Broadway, Surety.
- July 14, 1903—For forming kindergarten rooms at Public School 179, Borough of Manhattan—For the Department of Education. A. & W. Gray & Co., No. 233 West Thirty-third street, Principals. National Surety Company, No. 346 Broadway, Surety.
- July 14, 1903—For improving lots at Public School 112, Borough of Manhattan—For the Department of Education. Chester D. Coram, No. 114 East Twenty-third street, Principal. American Surety Company of New York, No. 100 Broadway, Surety.
- July 15, 1903—For repairs, etc., to Public School 82, Borough of Manhattan—For the Department of Education. Adam L. Sands, No. 1414 Amsterdam avenue, Principal. The Fidelity and Casualty Company of New York, Nos. 97-103 Cedar street, Surety.
- July 15, 1903—For sanitary work in Public School 179, Borough of Manhattan—For the Department of Education. John Spence Company, No. 217 West One Hundred and Twentieth street, Principals. American Bonding Company of Baltimore, Surety.
- July 15, 1903—For a heating plant in Public School 179, Borough of Manhattan—For the Department of Education. James Curran Manufacturing Company, No. 512 West Thirty-sixth street, Principals. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 15, 1903—For furniture for Public School 34, Borough of Richmond—For the Department of Education. Thomas Cummings, Jr., No. 10 Metcalf street, Stapleton, S. I., Principal. The United States Fidelity and Guaranty Company, No. 140 Broadway, Surety.
- July 15, 1903—For furnishing shields, The City of New York—For the Department of Police. American Railway Supply Company, No. 24 Park place, Principals. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 15, 1903—For supplies for vacation schools, The City of New York—For the Department of Education. E. Steiger & Co., No. 25 Park place, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway, Surety.
- July 15, 1903—For furnishing supplies for schools, The City of New York—For the Department of Education. Matthew J. Tobin, No. 318 Broadway, Principal. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 15, 1903—For supplies for vacation schools, The City of New York—For the Department of Education. Narragansett Machine Company, Providence, R. I., Principals. American Surety Company of New York, No. 100 Broadway, Surety.
- July 15, 1903—For furnishing supplies for schools, The City of New York—For the Department of Education. A. G. Spalding & Brothers, No. 126 Nassau street, Principals. Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Surety.
- July 15, 1903—For paving Bathgate avenue, Borough of The Bronx—For the President of the Borough. Continental Asphalt Paving Company, No. 32 Broadway, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; The Empire State Surety Company, No. 375 Fulton street, Borough of Brooklyn, New York City, Sureties.
- July 16, 1903—For furnishing groceries, etc., Borough of Brooklyn—For the Department of Public Charities. John W. Terry, No. 128 Franklin street, Principal. Francis H. Leggett, No. 269 Madison avenue; Charles K. Sherwood, No. 141 Franklin street, Sureties.
- July 16, 1903—For furnishing dry goods, etc., Borough of Brooklyn—For the Department of Public Charities. Siegel-Cooper Company, Sixth avenue and Eighteenth street, Principals. American Surety Company of New York, No. 100 Broadway, Surety.
- July 16, 1903—For furnishing provisions, etc., Borough of Brooklyn—For the Department of Public Charities. Charles F. Matlage, No. 335 Greenwich street, Principal. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 16, 1903—For furnishing vegetables, etc., Borough of Brooklyn—For the Department of Public Charities. Samuel E. Hunter, No. 82 Dey street, Principal. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 16, 1903—For supplies of dry goods, etc., Borough of Brooklyn—For the Department of Public Charities. Holland & Webb, No. 458 Broome street, Principals. American Surety Company of New York, No. 100 Broadway, Surety.
- July 16, 1903—For furnishing groceries, etc., Borough of Brooklyn—For the Department of Public Charities. Arthur L. De Groff, No. 77 Beach street, Principal. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 16, 1903—For furnishing provisions, etc., Borough of Brooklyn—For the Department of Public Charities. F. J. Dessoir, No. 56 Hudson street, Principal. Edwin H. Sayre, No. 686 Carroll street; Frank Sittig, No. 378 Jefferson avenue, Sureties.
- July 16, 1903—For supplies of fresh milk, Borough of Brooklyn—For the Department of Public Charities. Alex. Campbell Milk Company, No. 802 Fulton street, Principals. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 16, 1903—For furnishing ice, Borough of Brooklyn—For the Department of Public Charities. American Ice Company, No. 159 West Twenty-fourth street, Principals. Oren Dennett, No. 12 East Sixty-eighth street; Charles A. Winch, No. 161 West Twenty-fourth street, Sureties.
- July 16, 1903—For furnishing ice, Borough of Brooklyn—For the Department of Public Charities. American Ice Company, No. 159 West Twenty-fourth street, Principals. Oren Dennett, No. 12 East Sixty-eighth street; Charles A. Winch, No. 161 West Twenty-fourth street, Sureties.
- July 17, 1903—For regulating, etc., Pleasant avenue, Borough of Manhattan—For the President of the Borough. M. Gavin, No. 669 Second avenue, Principal. The United States Fidelity and Guaranty Company, No. 140 Broadway, Surety.
- July 17, 1903—For building a sewer in Pine street, Borough of Manhattan—For the President of the Borough. M. Gavin, No. 669 Second avenue, Principal. The United States Fidelity and Guaranty Company, No. 140 Broadway, Surety.
- July 17, 1903—For sprinkling streets, Borough of Richmond—For the President of the Borough. Richmond Light Railroad Company, Staten Island, Principals. Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Surety.
- July 17, 1903—For sprinkling streets, Borough of Richmond—For the President of the Borough. Staten Island Midland Railroad Company, Staten Island, Principals. Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Surety.
- July 17, 1903—For paving Forty-third street, Borough of Brooklyn—For the President of the Borough. Maurice F. Hickey, Second avenue and Sixth street, Principal. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 17, 1903—For building a sewer in Sixtieth street, Borough of Manhattan—For the President of the Borough. Cunningham & Kearns, No. 434 East Ninety-first street, Principals. The Empire State Surety Company, No. 375 Fulton street, Borough of Brooklyn, New York City, Surety.
- July 17, 1903—For building a sewer in Fortieth street, Borough of Manhattan—For the President of the Borough. M. Gavin, No. 669 Second avenue, Principal. The United States Fidelity and Guaranty Company, No. 140 Broadway, Surety.
- July 17, 1903—For fencing vacant lots, Borough of Manhattan—For the President of the Borough. M. Gavin, No. 669 Second avenue, Principal. The United States Fidelity and Guaranty Company, No. 140 Broadway, Surety.
- July 17, 1903—For building a bridge at Seeley street, Borough of Brooklyn—For the President of the Borough. D. Cuzzo & Bros., No. 150 Union street, Principals. Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Surety.
- July 17, 1903—For regulating, etc., Eighth street, Borough of Brooklyn—For the President of the Borough. John J. Hickey, No. 253 Eighth street, Principal. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 17, 1903—For regulating East Eighteenth street, Borough of Brooklyn—For the President of the Borough. Fred Luck, No. 1522 Newkirk avenue, Principal. The Empire State Surety Company, No. 375 Fulton street, Borough of Brooklyn, New York City, Surety.
- July 17, 1903—For paving State street, Borough of Brooklyn—For the President of the Borough. United States Wood Preserving Company, No. 29 Broadway, Principals. National Surety Company, No. 346 Broadway, Surety.
- July 17, 1903—For fencing vacant lots, Borough of The Bronx—For the President of the Borough. M. J. Leahy, No. 900 East One Hundred and Fifty-sixth street, Principal. George Mananison, No. 756 Union avenue; Andrew Siefermann, No. 943 East One Hundred and Fifty-eighth street, Sureties.
- July 17, 1903—For paving Sixty-eighth street, Borough of Manhattan—For the President of the Borough. Uvalde Asphalt Paving Company, No. 32 Broadway, Principals. The Empire State Surety Company, No. 375 Fulton street, Borough of Brooklyn, New York City; The City Trust, Safe Deposit and Surety Company of Philadelphia, No. 160 Broadway, Sureties.
- July 17, 1903—For regulating One Hundred and Seventieth street, Borough of Manhattan—For the President of the Borough. The J. J. Hart Company, No. 54 Broad street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway, Surety.
- July 17, 1903—For maintaining asphalt pavements, Borough of Manhattan—For the President of the Borough. The Barber Asphalt Paving Company, No. 11 Broadway, Principals. National Surety Company, No. 346 Broadway; The Empire State Surety Company, No. 375 Fulton street, Borough of Brooklyn, New York City, Sureties.
- July 17, 1903—For a building for Hook and Ladder Company No. 27 in One Hundred and Seventy-sixth street, Borough of The Bronx—For the Department of Fire. Thomas B. Leahy, No. 9 East Forty-second street, Principal. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 17, 1903—For general repairs to quarters of Engine Company No. 18, Borough of Manhattan—For the Department of Fire. Thomas B. Leahy, No. 9 East Forty-second street, Principal. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 17, 1903—For furnishing fire alarm telegraph supplies, boroughs of Manhattan and The Bronx—For the Department of Fire. Frederick Pearce, No. 18 Rose street, Principal. American Bonding Company of Baltimore, Surety.
- July 17, 1903—For supplies for fire alarm telegraph, boroughs of Brooklyn and Queens—For the Department of Fire. Frederick Pearce, No. 18 Rose street, Principal. American Bonding Company of Baltimore, Surety.
- July 17, 1903—For furnishing vegetables, etc., Borough of Manhattan—For the Department of Public Charities. Samuel E. Hunter, No. 82 Dey street, Principal. The Aetna Indemnity Company, No. 68 William street, Surety.
- July 17, 1903—For supplies for fire alarm telegraph, Borough of Queens—For the Department of Fire. Standard Underground Cable Company, Pittsburg, Pa., Principals. Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Surety.
- July 17, 1903—For fire alarm telegraph supplies, boroughs of Manhattan and The Bronx—For the Department of Fire. Standard Underground Cable Company, Pittsburg, Pa., Principals. Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Surety.
- July 17, 1903—For supplies for fire alarm telegraph, boroughs of Brooklyn and Queens—For the Department of Fire. Standard Underground Cable Company, Pittsburg, Pa., Principals. Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Surety.
- July 17, 1903—For supplies for fire alarm telegraph, Borough of Queens—For the Department of Fire. Frederick Pearce, No. 18 Rose street, Principal. American Bonding Company of Baltimore, Surety.
- July 18, 1903—For paving with asphalt Ninety-ninth street, Borough of Manhattan—For the President of the Borough. The Hastings Pavement Company, No. 26 Broad street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Sureties.
- July 18, 1903—For paving with asphalt One Hundred and Fortieth street, Borough of Manhattan—For the President of the Borough. The Hastings Pavement Company, No. 26 Broad street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Sureties.
- July 18, 1903—For paving with asphalt Convent avenue, Borough of Manhattan—For the President of the Borough. The Hastings Pavement Company, No. 26 Broad street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Sureties.
- July 18, 1903—For regulating Trowbridge street, Borough of Queens—For the President of the Borough. Peace Bros., Flushing, L. I., Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway, Surety.
- July 18, 1903—For regulating Crescent street, Borough of Queens—For the President of the Borough. Peace Bros., Flushing, L. I., Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway, Surety.
- July 18, 1903—For regulating Hoyt avenue, Borough of Queens—For the President of the Borough. T. A. Brown, No. 699 Crescent street, Principal. The United States Fidelity and Guaranty Company, No. 140 Broadway, Surety.
- July 18, 1903—For regulating Willow street, Borough of Queens—For the President of the Borough. T. A. Brown, No. 699 Crescent street, Principal. The United States Fidelity and Guaranty Company, No. 140 Broadway, Surety.
- July 18, 1903—For flagging Hamilton street, Borough of Queens—For the President of the Borough. Charles J. Dunn, Flushing, L. I., Principal. The Empire State Surety Company, No. 375 Fulton street, Borough of Brooklyn, New York City, Surety.
- July 18, 1903—For furnishing supplies, The City of New York—For the Department of Docks and Ferries. John P. Kane Company, No. 287 Fourth avenue, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway, Surety.
- July 18, 1903—For building fences, Borough of Manhattan—For the Department of Parks. Louis Wechsler, No. 1133 Broadway, Principal. Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Surety.
- July 18, 1903—For painting in parks, The City of New York—For the Department of Parks. Solomon Bessel, No. 2323 Second avenue, Principal. William Fink,

No. 425 East One Hundred and Twentieth street; Chris. Ambuster, No. 229 East Twenty-first street, Sureties.

July 18, 1903—For paving with asphalt Spring place, Borough of The Bronx—For the President of the Borough. Hastings Pavement Company, No. 26 Broad street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Sureties.

July 18, 1903—For paving with asphalt East One Hundred and Thirty-fourth street, Borough of The Bronx—For the President of the Borough. Hastings Pavement Company, No. 26 Broad street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Sureties.

July 18, 1903—For paving with asphalt East One Hundred and Thirty-third street, Borough of The Bronx—For the President of the Borough. Hastings Pavement Company, No. 26 Broad street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Sureties.

July 18, 1903—For laying crosswalks, Borough of The Bronx—For the President of the Borough. D. W. Moran, No. 563 Buckhout street, Principal. C. A. Beclser, No. 731 Tremont avenue; L. G. McCann, No. 2151 Washington avenue, Sureties.

July 18, 1903—For paving with asphalt Ninety-second street, Borough of Manhattan—For the President of the Borough. Hastings Pavement Company, No. 26 Broad street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Sureties.

July 18, 1903—For paving with asphalt Ninety-seventh street, Borough of Manhattan—For the President of the Borough. Hastings Pavement Company, No. 26 Broad street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Sureties.

July 18, 1903—For paving with asphalt One Hundred and Forty-second street, Borough of Manhattan—For the President of the Borough. Hastings Pavement Company, No. 26 Broad street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Sureties.

July 18, 1903—For paving with asphalt Bleeker street, Borough of Brooklyn—For the President of the Borough. Eastern Bermudes Asphalt Paving Company, Temple Bar Building, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; The City Trust, Safe Deposit and Surety Company of Philadelphia, No. 160 Broadway, Sureties.

July 18, 1903—For paving with asphalt St. Nicholas terrace, Borough of Manhattan—For the President of the Borough. Hastings Pavement Company, No. 26 Broad street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Sureties.

July 18, 1903—For paving with asphalt St. Nicholas avenue, Borough of Manhattan—For the President of the Borough. Hastings Pavement Company, No. 26 Broad street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Sureties.

July 18, 1903—For paving with asphalt Madison avenue, from Sixty-sixth street to Seventy-second street, Borough of Manhattan—For the President of the Borough. Hastings Pavement Company, No. 26 Broad street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Sureties.

July 18, 1903—For paving with asphalt Madison avenue, from Eighty-sixth street to Ninety-first street, Borough of Manhattan—For the President of the Borough. Hastings Pavement Company, No. 26 Broad street, Principals. The United States Fidelity and Guaranty Company, No. 140 Broadway; Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Sureties.

July 18, 1903—For painting the Aldermanic Chamber, Borough of Manhattan—For the President of the Borough. Louis Wechsler, No. 1133 Broadway, Principal. Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Surety.

July 18, 1903—For furniture for Mayor's reception room, Borough of Manhattan—For the President of the Borough. Louis Wechsler, No. 1133 Broadway, Principal. Fidelity and Deposit Company of Maryland, No. 35 Wall street, New York City, Surety.

Opening of Proposals for the Week Ending July 18, 1903.

The Comptroller, by representative, attended the opening of proposals at the following departments, viz.:

July 13, 1903—For furnishing sand, broken stone and cement, Borough of Manhattan—For the Department of Docks and Ferries.

July 13, 1903—For the general construction of Public School 150; for alterations to Public School 165; for supplies for the Hall of the Board of Education, Borough of Manhattan; for an addition to Public School 104; for improving the sanitary condition of Public Schools 19, 36, 94 and 111; for heating and ventilating plants in Public School 7, Borough of Brooklyn; for sanitary work in High School 1, Borough of Richmond; for heating and ventilating plants in Public School 57, Borough of Queens—For the Department of Education.

July 14, 1903—For furnishing 10,000 shields, The City of New York—For the Department of Police.

July 14, 1903—For 2,000 tons of coal and 1,000 piles, The City of New York—For the Department of Docks and Ferries.

July 14, 1903—For the construction of the cement, concrete, kosmocrete sidewalks and asphalt paving under the Manhattan approach of the Williamsburg Bridge. The City of New York—For the Department of Bridges.

July 14, 1903—For repaving Forty-sixth street and ten other streets; for new furniture for reception room, City Hall; for painting and decorating Council Chamber, Borough of Manhattan—For the President of the Borough.

July 15, 1903—For furnishing supplies, and for building a new Harlem hospital, The City of New York—For the Board of Trustees of Bellevue and Allied Hospitals.

July 15, 1903—For building sewers or basins in East Twenty-ninth street, Eighth street, Eagle street, Buskwick avenue, Fourteenth avenue, etc.; for constructing cement sidewalks and fencing vacant lots in various streets, Borough of Brooklyn—For the President of the Borough.

July 15, 1903—For repairs to Riverside Hospital, North Brother Island, Borough of The Bronx—For the Department of Health.

July 16, 1903—For furnishing belgian blocks and drain pipes, Borough of The Bronx; for furnishing loam, gravel, garden mould and sod and a comfort station near Highbridge, Borough of Manhattan—For the Department of Parks.

July 16, 1903—For furnishing 100,000 pounds of bread for Kings County Jail, Borough of Brooklyn—For the Sheriff of Kings County.

July 16, 1903—For paving with granite blocks Ninth street, from West avenue to Vernon avenue, and for improving five other streets, Borough of Queens—For the President of the Borough.

July 17, 1903—For repaving the macadam pavement of Stuyvesant place, Borough of Richmond—For the President of the Borough.

Official Designation.

James W. Stevenson, Deputy Comptroller, to act as Comptroller from Monday July 18, to Saturday, July 25, 1903, both days inclusive.

N. T. PHILLIPS, Deputy Comptroller.

POLICE DEPARTMENT.

New York, September 14, 1903.

The following proceedings were this day directed by Police Commissioner Greene:

Ordered, That R. G. Neighbors, of Studio No. 864, Carnegie Hall, be and is hereby temporarily employed under the provisions of Civil Service Rule No. 7, as Stenographer and Typewriter in the Police Department, with compensation at the rate of \$1,100 per annum.

Referred to the Corporation Counsel—Copy writ of certiorari, Supreme Court, New York County, case of John J. Daly against F. V. Greene, Police Commissioner. To file return.

Referred to the Board of Surgeons—Report of Surgeon M. A. McGovern, relative to condition of Patrolman William A. Donohoe, 28th Precinct; for examination and report. Report of Captain James J. Langan, relative to Detective Sergeant Samuel Doherty; for examination and report.

Referred to the Third Deputy Commissioner—Petition for pension of Eleanor E. Kelly, widow of James J. Kelly, deceased pensioner; for investigation and report. Petition for pension of Honora Riley, widow of James Riley, deceased pensioner; for investigation and report. Petition for pension of Nellie Cavanagh, widow of Charles Cavanagh, deceased Patrolman; for investigation and report. Report of Inspector Albertson, 5th District, on complaint of E. F. Jenkins, Secretary and Superintendent New York Society for Prevention of Cruelty to Children, against Patrolman Albert Hebranke, 29th Precinct; for action. Report of Sergeant Richard Coffey, relative to sick horses; for action.

Ordered, That the proceedings of September 8, 1903, making a requisition upon the Municipal Civil Service Commission for an eligible list from which to appoint 45 Patrolmen be and is hereby amended so as to make the number 47 instead of 45 Patrolmen.

Referred to the Comptroller—Payrolls for advance to grade as follows: Patrick O'Brien and 33 others, \$169.92; Charles J. Silberbauer and 4 others, \$8.01; Thomas J. Mahoney and 42 others, \$246.57; Jeremiah J. Sullivan and 10 others, \$63.35.

Chief Clerk to Answer—Bankers' Surety Company, asking for record of Harris B. Fischer. W. M. Musgrave, asking for precinct Patrolman J. C. Kelly is attached to. Hon. John R. Voorhis, President Board of Elections, relative to police taking charge of ballot boxes for primary election; inclose copies of two orders. Thomas G. Carlin, asking relative to extra work on foundations for new 75th Precinct Station House; send letter to Corporation Counsel, calling attention to communication of August 17, 1903, and respectfully requesting a reply. George S. Terry, Secretary Park Board, asking that instructions be given relative to sale of periodicals on park property; send copy of each order and former action. John D. Crimmins, asking that Detective Sergeant John D. Sullivan, 18th Precinct, be transferred to the 27th Precinct; see notes. George McLaughlin, Secretary State Commission of Prisons, asking for report of supplies that can be furnished by the penal institutions; send copy of Sergeant O'Brien's report and schedule.

Referred to the Chief Inspector—Communications from the following: S. William Briscoe, Secretary Civil Service Commission, stating that the Commission will not require a detail of Patrolmen at the Grand Central Palace on September 24, 1903. Albert Dreyfous, commending Patrolman Howard, 27th Precinct, for stopping runaway; for report. Consolidated Gas Company, asking that Patrolmen be instructed to carry one of their pasters so as to enable them to call up the proper emergency station in case of leak or breakage of gas pipes; for report. A. O. Whaley, commending Sergeant McGlynn, 40th Precinct, for stopping a runaway team of horses; for report. S. H. V. Stewart, Recruiting Officer, United States Navy, asking permission to send advertising wagon through the streets for purpose of getting recruits for navy; for report. Applications of the following for transfer: Patrolmen James L. Allen, 20th Precinct; Edw. F. Ozab, 29th Precinct; Patrick Clynes, 25th Precinct; James E. Wren, 31st Precinct; Howard J. Echweiler, 29th Precinct; Helman Wolf, 29th Precinct; Michael J. McGuire, 12th Precinct; names to be placed on list for consideration when new men come out of School of Instruction. Application of Sergeant James E. Fitzpatrick, 80th Precinct, for transfer; for consideration when new Sergeants are appointed. Application of Doorman Hugh Breslin, 79th Precinct, for transfer; for consideration when Doormen are to be appointed for Brooklyn. Application of Charles Williams, Gotham Theatre, for appointment of William H. Hatton as Special Patrolman. Application of W. S. Tisdale for appointment of Patrick Keshan as Special Patrolman. Application of W. J. Leahy for appointment of Thomas Carley as Special Patrolman.

Approved—Applications of the following for a Roundsman or Acting—Captains John Cooney, 75th Precinct; John F. Gardiner, 65th Precinct; Patrick Murphy, 62d Precinct, and Acting Captain Michael J. Murphy, 45th Precinct. Recommendation of First Deputy Commissioner Ebstein, that Matron Rachel B. Behman be transferred to the 65th Precinct and Matron C. M. Doner to some precinct in Manhattan. Recommendation of Second Deputy Commissioner Piper, that Sergeant Walter Norris be transferred from the 29th to the 8th Precinct, and Sergeant Abram Hulse from the 8th to the 29th Precinct. Recommendation of Second Deputy Commissioner Piper that Patrolman Fitzgibbons, 35th Precinct, be detailed to fill vacancy in the office of the Auditor. Recommendation of Second Deputy Commissioner Piper that the numbering of new shields be extended to include Sergeants and Detective Sergeants; Chief Clerk to obtain estimates.

Leave of Absence Granted—Deputy Clerk P. J. Molohan, fifteen days' extension; physician to report at that time as to progress. Detective Sergeant Michael J. Galvin, Detective Bureau, Manhattan, twenty days without pay; waiver signed. Captain Denis J. Brennan, 10th Precinct, twenty days' vacation.

Full Pay Granted—Patrolman John McGovern, 67th Precinct, June 7 to August 10, 1903. Patrolman Christopher Ryan, 45th Precinct, August 19 to 24, 1903. Sergeant Frederick Wills, 60th Precinct, July 26 to August 17, 1903.

Special Patrolmen Appointed—George W. Brandt, Jr., for Brooklyn Heights Railroad Company. James W. Meyer, for Louis A. Phillips, Lyceum Theatre, Brooklyn. Jacob H. Goldstein, for Leopold Spachner, Thalia Theatre, Manhattan. John J. Lynch, for J. Eltz & Son, No. 553 West Fifty-fifth street, Manhattan.

Resignation Accepted—Robert J. Bonney, as Special Patrolman for Imperial Music Hall, Brooklyn. John H. Abrams, as Special Patrolman for Sanford Murray, Queens. Patrick Owens, as Special Patrolman for M. J. Rauscher, Brooklyn.

Concert License Granted—Guiseppe Aiello, Villa Margherita Concert Hall, No. 55 Union street, Brooklyn, for three months from date granted; fee, \$150; without permission to sell intoxicating liquors during such performance.

Runner License Granted—Neil J. Lafferty, No. 12 Warren place, Brooklyn, September 23, 1903, to September 23, 1904; fee, \$12.50; bond, \$300.

Referred to the First Deputy Commissioner—Communication from Louis H. Voss, stating that preliminary specifications were sent to the First Deputy Commissioner.

Ordered, That the following named Roundsmen whose names appear on eligible list of the Municipal Civil Service Commission, dated September 8, 1903, be and are hereby promoted to the grade of Sergeant of Police, viz.: John D. O'Brien, Daniel S. Mundy, John O'Brien, James A. Murray, Cornelius J. Slott.

Ordered, That the following named Patrolmen whose names appear on eligible list of the Municipal Civil Service Commission, dated September 8, 1903, be and are hereby promoted to the grade of Roundsmen of Police, viz.: Peter Kunitz, Timothy H. O'Leary, Andrew Robinson, Robert J. Woods, George A. Humann, Benjamin F. Ashley, William J. Morris, Daniel T. Connor, William A. Ryan, Joseph F. Quinn.

Ordered, That Catharine M. Doner be and is hereby appointed as Matron in the Police Department, her term of probation having expired.

Ordered, That the following named persons be and are hereby appointed as Patrolmen in the Police Department, their terms of probation having expired, viz.: Patrick Hally, Harry A. Taylor, James Curran, Frederick W. Unger.

On reading and filing eligible list of the Municipal Civil Service Commission, dated September 9, 1903.

Ordered, That the following named persons be and are hereby employed as Patrolmen on probation, viz.: James J. Sheehy, Charles P. Mooney, Angus Beaton, William J. Lenihan, Leonard Hoffman, James Taylor, Julius H. Brehme, Charles J. O'Connell, William J. Kelly, George E. Kingston, John L. Rooney, George A. Walter, Gerald L. Ryan, William J. O'Brien, John J. Brennan, Charles G. Weiss, Edw. J. Cousin, Thomas G. Back, Joseph A. Courtney, Thomas F. Ahearn, Robert L. Harron, Jr., Dennis J. O'Donnell, Richard Holt, Jacob J. Mangold, John Flynn, Isaac Levy, David Meyer, John Knipscher, James J. Cooke, Thomas J. McGowan, John W. Cunningham, Edw. Kepko, Charles W. Redden, Daniel O'Rourke, Edgar P. Ellis, John Fox, Herman H. Escher, Maurice M. Cunningham, Francis M. O'Brien, William G. Dunn, Joseph A. Donelon, Edw. Brady, John J. Ostendorf, Edw. P. O'Hara, John S. Farrell, Louis Kogel, William J. Flynn.

Referred to the Bookkeeper—Communication from Elenor Kelly, asking that balance of pension, amounting to \$116.66, due her husband James J. Kelly, be paid to her; to make payment on receipt of proper release and proof of identity. Communication from Joseph P. Mann, asking that balance of pension due his mother be paid to him; to make payment on receipt of proper release and proof of identity.

Referred to the Second Deputy Commissioner—Communication from T. E. McGarr, Secretary State Commission in Lunacy, asking that the number of Patrolmen on Ward's Island be increased; for report. Application of Captain Denis J. Brennan, 10th Precinct, for the transfer of Patrolman John E. Bulman, 79th Precinct, to his command for duty in plain clothes; for report. Application of Captain Denis J. Brennan, 10th Precinct, for the transfer of Patrolman Arthur F. Keele, 9th Precinct, to his command, and assigned as Precinct Detective in place of George Little; for report. Communication from Gabe Case, asking that Patrolman Thomas Smith, 27th Precinct, be retained at Special Post No. 25; for report. Report of Captain John J. McNally, 32d Precinct, and Inspector Albertson, on communication from Mayer Daxe, commending Patrolman John F. Elliott, 32d Precinct, for action at a fire; for further report.

On File—Communications from the following: John Flick, asking for a re-examination by Board of Surgeons; request denied. J. S. Cram, asking that Patrolman Peter I. Lawlor, 19th Precinct, be detailed to some lighter duty; request denied. Second Deputy Commissioner A. R. Piper, asking decision in matter of forwarding records of officers to various business concerns; notice to Second Deputy Commissioner that such applications should be declined. S. William Briscoe, Secretary Civil Service Commission, stating that men who were rejected by Board of Surgeons have been ordered to appear for re-examination by Civil Service. Corporation Counsel, forwarding printed copy of record in certiorari proceedings brought by Patrolman William Baxter to be placed on the files of the Police Department. Robert W. DeForest, Tenement House Commissioner, acknowledging receipt of letter relative to R. Thomas Short. Municipal Civil Service Commission, stating that letter of September 2, 1903, relative to the eligibility of certain Roundsmen for promotion to Sergeant, was referred to the Chief Examiner for investigation and report. Board of Education, stating that newsboys have had sufficient time to procure badges and permits; see order to the Force. Reports of the following: Auditor, relative to moneys received for Masquerade Ball Permits for the week ending September 12, 1903. Inspector E. O. Smith, relative to gambling going on in the 6th Precinct. Sergeant William A. Jones, commanding Sanitary Company, relative to arrest of Charles Becker for violation of the Engineer's Law. Acting Captain E. D. Strophe, 31st Precinct, relative to accident to Patrolman Edw. W. Rohrs. Acting Captain William F. Tappin, 38th Precinct, relative to Hostler James McCabe being absent without leave. Inspector M. F. Schmittberger, on complaint of Mrs. K. Poillon against Patrolman Thomas J. Culhane. Acting Captain Charles J. Ryan, 80th Precinct, relative to the shooting of one George Lykes by one John Cole. Captain Martin Handy, 8th Precinct, relative to death of one Walter B. Peck, who had been arrested on charge of intoxication. Inspector Druhan, on communication from Samuel Harris, commending Patrolman Robert J. Marshall, 71st Precinct, for stopping a runaway. Captain G. A. Aloncle, 9th Precinct, relative to assault committed at No. 53 Carmine street.

Ordered, That the Municipal Civil Service Commission be informed as to the other names appearing on the eligible list for Patrolman, dated September 9, 1903, as follows: William F. Morgan, rejected for poor physique; Thomas J. Mason, rejected for being knock-kneed; John Flick, rejected for having flat feet; Joseph A. Halpin, failed to appear; James H. Murray, rejected for having flat feet; Charles Beeman, reported sick.

The following advancements to grade were ordered by the Commissioner: Michael Butler, 44th Precinct, to 4th grade July 14, 1903; John J. McLean, 24th Precinct, to 4th grade August 15, 1903.

To 5th Grade—September 7, 1903—Otto D. Steinway, 46th Precinct; Michael C. Maroney, 21st Precinct; Joseph B. Gorsline, 52d Precinct; John McSharry, 46th Precinct; Charles J. F. Kuhlmann, 30th Precinct; Michael J. Frawley, 21st Precinct.

To 5th Grade—Edw. C. Schoell, 18th Precinct, September 9, 1903; Charles Schifendecker, 52d Precinct, September 16, 1903.

To 6th Grade—Hugh P. McGrath, 24th Precinct, January 11, 1903; Joseph Russo, 74th Precinct, May 9, 1903; Francis A. Caulfield, 58th Precinct, June 17, 1903; James L. Cunningham, 50th Precinct, July 10, 1903.

To 6th Grade July 14, 1903—Louis F. Roos, 6th Precinct; William T. Major, 72d Precinct; William E. Rehan, 26th Precinct; Thomas C. McMurray, 2d Precinct.

To 6th Grade September 8, 1903—Charles B. Burns, 61st Precinct; John W. Dunn, 16th Precinct; Francis McDermott, 60th Precinct; Patrick H. Phelan, 11th Precinct; Joseph Carroll, 16th Precinct; James Murray, 46th Precinct; James McNaughton, 56th Precinct.

Walter S. McClary, 2d Precinct, denied.

On File, Send Copy—Report of Sergeant C. O. Sheldon, on communication from A. O. Dodge, relative to whereabouts of R. H. Crosby. Report of Chief Inspector Cortwright on communication from John H. J. Ronner, asking that Patrolman E. F. Ozab, 29th Precinct, be transferred. Report of Chief Inspector Cortwright on communication from Charles Baxter, asking that additional Patrolmen be assigned to the 35th Precinct. Report of Captain G. A. Aloncle, 9th Precinct, and Inspector E. O. Smith, relative to necessity of detailing an officer in West Washington Market. Report of Captain John J. Farrell, 1st Precinct, and Sergeant Frank Rathgeber, relative to whereabouts of one David Todd. Sergeant Sheldon, Central Office Squad, relative to whereabouts of one Louise Otto.

Trial was had of charges against members of the Force and disposition recommended approved by the Police Commissioner as follows:

Before First Deputy Commissioner Ebstein—Patrolman Walter W. Joyce, 50th Precinct, neglect of duty, reprimanded; Patrolman Charles Pfeifer, 58th Precinct, neglect of duty, reprimanded; Patrolman Thomas O'Halloran, 46th Precinct, neglect of duty, reprimanded; Patrolman Walter W. Dodd, 62d Precinct, neglect of duty, reprimanded; Patrolman Joseph F. Murtha, 67th Precinct, neglect of duty, reprimanded; Patrolman Thomas C. Adams, 69th Precinct, neglect of duty, reprimanded.

Before Second Deputy Commissioner Piper—Patrolman John J. Baker, 6th Precinct, neglect of duty, three days; Patrolman James Corr, 6th Precinct, neglect of duty, two days; Patrolman Gustav Lindgren, 8th Precinct, neglect of duty, five days; Patrolman William E. Powers, 11th Precinct, neglect of duty, two days; Sergeant John Ryan, 13th Precinct, neglect of duty and violation of rules, five days; Patrolman John J. Quinlan, 15th Precinct, neglect of duty, one day; Patrolman William Boyne, 16th Precinct, neglect of duty, three days; Patrolman John Meislohn, 17th Precinct, neglect of duty, two days; Patrolman George N. Morris, 18th Precinct, neglect of duty, one day; Patrolman Roger S. McCoy, 10th Precinct, neglect of duty, reprimanded.

Before Third Deputy Commissioner Davis—Sergeant Frank J. Fuchs, 15th Precinct, neglect of duty, one day; Roundsman Henry P. White, 32d Precinct, neglect of duty, complaint dismissed; Sergeant William Kehoe, 33d Precinct, neglect of duty, reprimanded.

The following transfers were ordered by the Commissioner to take effect a. m. September 12, 1903: Patrolman Michael Kehoe, from 8th to 3d Precinct, detailed at Vesey and West streets; Patrolman Maurice O'Connell, from 3d to 8th Precinct, remanded from Vesey and West streets; Patrolman Ellsworth T. Carter, from 11th to 3d Precinct, detailed on Broadway Squad; Patrolman Peter M. Duffy, from 6th to 3d Precinct, detailed on Broadway Squad; Patrolman Frank I. Hefferon, from 5th to 19th Precinct, detailed on Broadway Squad; Patrolman John Gargan, from 25th to 19th Precinct, detailed on Broadway Squad; Patrolman Benj. V. Merritt, from 5th to 19th Precinct, detailed on Broadway Squad; Patrolman Patrick J. Purcell, 13th Precinct, detailed on Broadway Squad; Patrolman John A. Hughes, 19th Precinct, detailed on Broadway Squad.

To Take Effect 8 a. m. September 15, 1903—Sergeant Charles Madigan, from 63d to 77th Precinct; Sergeant Max Lasky, from 44th to 11th Precinct; Patrolman Michael Hanley, from 51st to 73d Precinct; Patrolman Edw. Bohmke, from 69th to 73d Precinct; Patrolman Edw. Donlon, from 54th to 50th Precinct; Patrolman James Dalton, from 1st to 41st Precinct; Patrolman Frank S. Ergott, from 7th to 38th Precinct; Patrolman John H. May, from 11th to 38th Precinct; Patrolman Michael J. Nilon, from 13th to 32d Precinct; Patrolman Joseph P. Weckesser, from 20th to 33d Precinct; Roundsman Thomas F. Dwyer, from 49th to 82d Precinct; Roundsman Julius C. Peterson, from Central Office to Headquarters Squad, Brooklyn; Patrolman Joseph S. Greene, from 57th to 53d Precinct; Patrolman Christopher J. Grossell, from 54th to 58th Precinct; Patrolman Walter S. McClary, from 2d to 33d Precinct; Patrolman Charles F. Gerber, from 10th to 30th Precinct; Patrolman Joseph Bissert, from 12th to 37th Precinct; Patrolman William D. Wherenberg, from 15th to 32d Precinct; Patrolman George Fries, from 28th to 36th Precinct; Patrolman Joseph Polsenski, from 29th to 40th Precinct; Patrolman Burton G.

Thayer, from 2d to 72d Precinct; Patrolman Edw. J. Hammer, from 5th to 76th Precinct; Patrolman George W. Kropp, from 10th to 68th Precinct; Patrolman William D. Winkelman, from 15th to 64th Precinct; Patrolman William F. Aiken, from 19th to 37th Precinct; Patrolman Michael M. Byron, from 24th to 79th Precinct; Patrolman Francis J. Andres, from 6th to 37th Precinct; Patrolman James E. Bradley, from 8th to 33d Precinct; Patrolman Ernest Miller, Jr., from 12th to 28th Precinct; Patrolman George A. Lenhoff, from 15th to 36th Precinct; Patrolman George S. Booth, from 26th to 38th Precinct; Patrolman Frank Barrett, from 29th to 36th Precinct; Patrolman Robert T. Walsh, from 5th to 71st Precinct; Patrolman Oliver A. Benson, from 6th to 46th Precinct; Patrolman George D. Barnitz, from 11th to 44th Precinct; Patrolman Rudolph Beyer, from 16th to 79th Precinct; Patrolman David A. Clancy, from 20th to 29th Precinct; Patrolman Henry C. Widder, from 28th to 79th Precinct; Patrolman Henry C. Ballou, from 70th to 82d Precinct, detailed in First District Court; Patrolman John H. Hauert, from 53d to 82d Precinct, detailed in Sixth District Court; Patrolman Patrick J. Perkins, from 53d to 48th Precinct, detailed as Guard on patrol wagon; Patrolman George Schecketten, from 48th to 44th Precinct, remanded from Guard on patrol wagon; Patrolman David H. Kiersted, from 78th to 65th Precinct, remanded from Eleventh District Office; Patrolman Horace E. Patrick, from Children's Court to 35th Precinct; Patrolman Joseph Harris, from 35th Precinct to Children's Court; Patrolman Peter J. Brady, from 26th to 27th Precinct, remanded from Public Bath; Patrolman John McManus, from 46th to 82d Precinct, detailed in Special Sessions Court; Patrolman James J. O'Neill, 41st Precinct, dismounted and remanded to patrol; Patrolman Daniel J. Glavin, from 31st to 37th Precinct; Patrolman Thomas A. Conlon, from 5th to 79th Precinct; Patrolman Frank Long, from 8th to 62d Precinct; Patrolman Edwin Carpenter, from 14th to 59th Precinct; Patrolman Peter T. Rehill, from 18th to 61st Precinct; Patrolman William Dorn, from 21st to 76th Precinct; Patrolman James G. Stephenson, from 35th to 39th Precinct; Patrolman John J. Regan, from 7th to 28th Precinct; Patrolman Louis G. Franklin, from 10th to 37th Precinct; Patrolman Stephen W. O'Brien, from 13th to 29th Precinct; Patrolman Charles A. Becker, from 20th to 32d Precinct; Patrolman James F. Neary, from 29th to 20th Precinct; Patrolman Christian Waldeck, from 1st to 70th Precinct; Patrolman Edw. Bannon, from 5th to 47th Precinct; Patrolman Charles E. Bertram, from 8th to 77th Precinct; Patrolman James E. Greene, from 15th to 64th Precinct; Patrolman Andrew W. Nylander, from 19th to 30th Precinct; Patrolman William Wolstenholme, from 22d to 54th Precinct; Patrolman Gottfried Schneider, from 2d to 53d Precinct.

The following Roundsmen having qualified as Sergeant are assigned to precincts as follows: John X. O'Brien, from 8th to 7th Precinct; John D. O'Brien, from 41st to 8th Precinct; Daniel S. Mundy, from Borough of Brooklyn Headquarters Squad to 63d Precinct; Cornelius J. Slott, from 71st to 44th Precinct; James A. Murray, 76th Precinct.

The following Patrolmen having qualified as Roundsmen are assigned to precincts as follows: Peter Kunitz, from 3d to 54th Precinct; Timothy H. O'Leary, from 32d to 37th Precinct; George A. Humann, from 24th to 58th Precinct; Benj. F. Ashley, from 25th to 49th Precinct; Joseph F. Quinn, from 38th to 63d Precinct; William J. Morris, from 26th to 71st Precinct; Robert J. Woods, from 74th to 77th Precinct; Daniel T. Connors, 41st Precinct; Andrew Robinson, from Central Office to 8th Precinct; William A. Ryan, from Central Office to 67th Precinct.

On File (additional)—Communication from Board of Estimate and Apportionment forwarding copy of resolution adopted September 9, 1903, approving the purchase of articles enumerated in communication from Police Department under date of September 2, 1903, and authorizing the use of said articles in the erection and equipment of a station house, prison and stable for the 39th Precinct.

WM. H. KIPP, Chief Clerk.

BOROUGH OF BROOKLYN.

JOINT MEETING—LOCAL BOARD—THE HEIGHTS DISTRICT AND PROSPECT HEIGHTS DISTRICT.

Monday, September 14, 1903.

Meeting in Borough Hall at 10 a. m.

The roll was called and the following members answered to their names:

Hon. J. Edward Swanstrom, President; Alderman Downing, Forty-fifth Aldermanic District; Alderman Bridges, Forty-sixth Aldermanic District; Alderman Wafer, Forty-seventh Aldermanic District; Alderman Walkley, Fifty-fifth Aldermanic District; Alderman Tebbetts, Fifty-sixth Aldermanic District; Alderman Sebeck, Fifty-seventh Aldermanic District.

The President submitted the following:

No. 16.

Petition to alter the map or plan of The City of New York by laying out an extension to Flatbush avenue so as to meet the Manhattan Bridge (Bridge No. 3). Laid over for public hearing to Wednesday, September 16, 1903, at 8 p. m.

Adjournment.

JUSTIN MCCARTHY, Jr., Secretary.

BOROUGH OF BROOKLYN.

JOINT MEETING—LOCAL BOARD—BEDFORD DISTRICT AND WILLIAMSBURG DISTRICT.

Monday, September 14, 1903.

Meeting in Borough Hall at 11 a. m.

The roll was called and the following members answered to their names:

Hon. J. Edward Swanstrom, President; Alderman Stewart, Forty-eighth Aldermanic District; Alderman Holler, Forty-ninth Aldermanic District; Alderman Diemer, Fiftieth Aldermanic District; Alderman Dickinson, Fifty-eighth Aldermanic District; Alderman Keely, Fifty-ninth Aldermanic District; Alderman Brenner, Sixtieth Aldermanic District.

The President submitted the following:

No. 35.

The following resolution was offered:

Resolved, That the Local Boards of the Bedford and Williamsburg Districts, Borough of Brooklyn, after hearing had this 14th day of September, 1903, deeming it for the public interest so to do, hereby requests the Board of Estimate and Apportionment to consider the accompanying map in the matter of an approach to the Williamsburg Bridge, in addition to the map now before them.

Resolved, That this resolution be forwarded to the Board of Estimate and Apportionment for its approval.

Which was decided in the affirmative by the following vote:

Affirmative—President Swanstrom and Aldermen Stewart, Holler, Diemer, Dickinson, Keely and Brenner.

Approved by the President of the Borough September 14, 1903.

Adjournment.

JUSTIN MCCARTHY, Jr., Secretary.

CHANGES IN DEPARTMENTS.

DEPARTMENT OF DOCKS AND FERRIES.

September 14—The compensation of Robert F. Aram, Clerk, has been fixed at the rate of \$1,800 per annum, subject to the approval of the Municipal Civil Service Commission.

The titles of Patrick Heagney, Laborer, and Joseph Vesey, Flagger, have this day

been changed to Dock Builders, with compensation at the rate of 43½ cents per hour while employed, subject to the approval of the Municipal Civil Service Commission.

The resignation of Jane Cullen, Recreation Pier Attendant, has been accepted, to take effect as of September 13, 1903.

William Gibbons and James Leonard, Laborers, have been discharged for failure to report for duty.

The resignation of A. F. Hazen, Recreation Pier Attendant, has been accepted.

DEPARTMENT OF PARKS.

Boroughs of Manhattan and Richmond.

September 18—Discharged for intoxication: James Hannon, Laborer. For violation of rules and using abusive and insulting language: Michael Abrahams, Laborer. Pay fixed at \$2.50 per day from September 19: Charles Friedlander, Assistant Gardener.

Borough of The Bronx.

September 19—Herman Ohl, No. 1222 Brook avenue, Carpenter, appointed, at a compensation at the rate of \$4 a day; to take effect September 19. Louis H. Casey, No. 394 East One Hundred and Eighty-fourth street, Carpenter, appointed at a compensation at the rate of \$4 a day; to take effect September 19. Frederick Pfirman, No. 1314 Brook avenue, Assistant Gardener, resigned.

John T. Schnapp, title changed from Axeman to Rodman; compensation fixed at \$75 a month; to date from September 16. Joseph J. Redmond, Jerome avenue and Two Hundred and Thirty-third street, Teamster with Team, discharged; to take effect this date.

Michael Reilly, Jerome avenue and Two Hundred and Thirty-third street, Teamster with Team, appointed, at a compensation at the rate of \$4.50 a day; to take effect September 19.

John Weiss, No. 438 Brook avenue, Assistant Gardener, resigned.

Thomas P. Eddington, No. 829 East One Hundred and Thirty-third street, Assistant Gardener, resigned.

PRESIDENT OF THE BOROUGH OF THE BRONX.

September 18—John A. McGarry, No. 45 Catharine street, has resigned his position as Inspector of Regulating, Grading and Paving; to take effect September 16.

September 19—William H. Messenger, Topographical Draughtsman, has been reinstated, to take effect September 18, 1903.

TENEMENT HOUSE DEPARTMENT.

September 19—John F. Graff, No. 490 Second avenue, city, Office Boy, \$300 per annum; this appointment to take effect September 18, 1903.

Henry W. Simon, No. 362 East Fiftieth street, city, Clerk, \$1,050 per annum; this appointment to take effect September 18, 1903.

DEPARTMENT OF BRIDGES.

September 21—Death, on September 19, 1903, of Thomas McCann, residing at No. 12 Elizabeth place, Brooklyn, who was employed as a "Driver" on the Brooklyn Bridge.

CITY CLERK.

September 16, 1903.

PUBLIC NOTICE is hereby given that the Committee on Laws and Legislation of the Board of Aldermen will hold a public hearing in the Aldermanic Chamber, City Hall, Borough of Manhattan, on Wednesday, September 23, 1903, at 3 o'clock p. m., on the following:

Resolution instructing Committee on Laws and Legislation to draft an ordinance regulating speed of surface cars on Jamaica avenue, Boroughs of Brooklyn and Queens. All persons interested in the above matter are respectfully requested to attend.

P. J. SCULLY, Clerk of the Board of Aldermen.



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 GRUENBERG, Chief Clerk.

Bureau of Licenses.

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

Chief of Bureau.

Principal Office, Room 1, City Hall. **JAMES D. MERRIMAN, Deputy Chief, Boroughs of Manhattan and The Bronx.**
Branch Office, Room 12, Borough Hall, Brooklyn; **JOSEPH MCGUINNESS, Deputy Chief, Borough of Brooklyn.**
Branch Office, Richmond Building, New Brighton, S. I.; **WILLIAM R. WOELFLE, Financial Clerk, Borough of Richmond.**
Branch Office, Hackett Building, Long Island City; **CHARLES H. SMITH, Financial Clerk, Borough of Queens.**

THE CITY RECORD OFFICE.

Bureau of Printing, Stationery and Blank Books.
Supervisor's Office, Park Row Building, No. 21 Park row, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.
Telephone 1505 and 1506 Cortlandt. Supply Room, No. 2, City Hall.
CHARLES S. HERVEY, Supervisor; HENRY MCMILLEN, Deputy Supervisor.

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 5365 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 39 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. STORRS, Chief Clerk, Room 11.

Bookkeeping and Awards Division.

JOSEPH HAAG, Chief Bookkeeper, Room 8.

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.

Law and Adjustment Division.

JAMES F. MCKINNEY, Auditor of Accounts, Room 183.

Investigating Division.

ROBERT B. MCINTYRE, Examiner in Charge, 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.
EUGENE E. McLEAN, Chief Engineer, Room 55.

Real Estate Bureau.

MORTIMER J. BROWN, Appraiser of Real Estate, Room 159.

Bureau for the Collection of Taxes.

Borough of Manhattan—Stewart Building, Room O.
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. BLECKWENN, Deputy Receiver of Taxes.

Borough of Richmond—Bay and Sand streets, Stapleton.
JOHN DEMORGAN, Deputy Receiver of Taxes.

Bureau for the Collection of Assessments and Arrears.

Borough of Manhattan—Stewart Building, Room 81.
EDWARD A. SLATTERY, Collector of Assessments and Arrears.

JOHN B. ADGER MULLALLY, 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.
SACUEL M. GARRISON, 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—Bay and Sand streets, Stapleton.
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. GOUNDIE, 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 63 to 67; and Kings County Courthouse, Room 14, Borough of Brooklyn.

ELGIN R. L. GOULD, City Chamberlain.
JOHN H. CAMPBELL, Deputy Chamberlain.

LAW DEPARTMENT.

Office of Corporation Counsel.
Staats-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.

THEODORE CONNOLLY, CHARLES D. OLENDORF, GEORGE L. STERLING, EDWARD J. MCGUIRE, JAMES M. WARD, GEORGE S. COLEMAN, CHARLES N. HARRIS, CHASE MELLE, JOHN C. CLARK, CHARLES S. WHITMAN, EDWIN J. FREEDMAN, TERENCE FARLEY, JOHN C. WAIT, JOHN W. HUTCHINSON, JR., OLIVER C. SEMPLER, JAMES T. MALONE, JOHN L. O'BRIEN, CHARLES A. O'NEIL, GEORGE LONDON, ARTHUR SWEENEY, WILLIAM BEERS CROWELL, DAVID RUMSEY, ANDREW T. CAMPBELL, JR., JOHN F. O'BRIEN, FRANKLIN C. HOYT, E. CROSBY KINDLEBERGER, MONTGOMERY HARE, LE ROY D. BALL, FREDERICK KERNOCHAN, Assistants.

JAMES MCKEEN, 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. 61 Irving place, 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. 286 Broadway (Stewart Building). Office hours for the public, 10 A. M. to 2 P. M.; Saturdays 10 A. M. to 12 M.
MARTIN SAXE, Assistant, in charge.

Bureau for the Recovery of Penalties.
Nos. 119 and 121 Nassau street, 9 A. M. to 5 P. M.; Saturdays, 9 A. M. to 12 M.
ARTHUR F. COSBY, 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. DUNN, 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 JOHN T. MCCALL, 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 THE BRONX, 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 of the Board, Finance Department, No. 280 Broadway.

AQUEDUCT COMMISSIONERS.
Room 207, Stewart Building, 5th floor, 9 A. M. to 4 P. M. Telephone, 1942 Franklin.

The MAYOR, the COMPTROLLER, ex officio; Commissioners, **WILLIAM H. TEN EYCK (President), JOHN J. RYAN, WILLIAM E. CURTIS and JOHN P. WINDOLPH; HARRY 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 McLEER and Brigadier-General GEORGE MOORE SMITH, Commissioners.

FRANK J. BELL, Acting 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.

FRANCIS W. GREENE, Commissioner.
FREDERICK H. E. EBSTEIN, First Deputy Commissioner.
ALEXANDER R. PIPER, Second Deputy Commissioner.
GHERARDI DAVIS, Third Deputy Commissioner.

BOARD OF ELECTIONS.
Headquarters, General Office, No. 107 West Forty-first street.

Commissioners—**JOHN R. VOORHIS (President), CHARLES B. PAGE (Secretary), JOHN MAGUIRE, RUDOLPH C. FULLER.**

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

BOROUGH OFFICES.

Manhattan.
No. 112 West Forty-second street.
WILLIAM C. BAXTER, Chief Clerk.

The Bronx.
One Hundred and Thirty-eighth street and Mott avenue (Solingen Building).
CORNELIUS A. BUNNER, Chief Clerk.

Brooklyn.
No. 42 Court street.
GEORGE RUSSELL, Chief Clerk.

Queens.
No. 51 Jackson avenue, Long Island City.
CARL VOEGEL, Chief Clerk.

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; 2206 Main, Brooklyn; 1054 Melrose, The Bronx; 527 Greenpoint, Queens.
GUSTAV LINDENTHAL, Commissioner.
NELSON L. ROBINSON, Deputy.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.
Nos. 13 to 21 Park row, 9 A. M. to 4 P. M. Telephone: Manhattan, 256 Cortlandt; Brooklyn, 3980 Main; Queens, 439 Greenpoint; Richmond, 39 Tompkinsville; Bronx, 62 Tremont.

ROBERT GRIER MONROE, Commissioner.
WILLIAM A. DE LONG, Deputy Commissioner.
NICHOLAS S. HILL, JR., Chief Engineer.
GEORGE W. BIRDSALL, Consulting Hydraulic Engineer.
GEORGE F. SEVER, Consulting Electrical Engineer.

CHARLES F. LACOMBE, Engineer of Surface Construction.

ROBERT A. KELLY, Water Registrar, Manhattan.
EDWARD S. BROWNSON, JR., Secretary to the Department.

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

JOHN EDWARD EASTMOND, Water Registrar, Brooklyn.

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

JOHN G. BORGSTEDT, Water Registrar, The Bronx.

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

GEORGE S. SCOFIELD, Deputy Commissioner, Borough of Richmond, Richmond Building, 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, 2230 Plaza, Manhattan; 2653 Main, Brooklyn.

THOMAS STURGIS, Fire Commissioner.
RICHARD H. LAIMBEER, JR., Deputy Commissioner, Boroughs of Brooklyn and Queens.

WILLIAM LEARY, Secretary.
CHARLES D. PURROY, Chief of Department and in charge of Fire-alarm Telegraph.

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

GEORGE E. MURRAY, Inspector of Combustibles.
THOMAS F. FREEL, Acting Fire Marshal, Boroughs of Manhattan, The Bronx and Richmond.

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. 157 and 159 East Sixty-seventh street, Headquarters Fire Department.

Fire Commissioner THOMAS STURGIS, Chairman; WILLIAM J. CHARLTON, Esq.; Gen. GEORGE O. EATON, J. AMORY HASKELL, Esq.; Dr. CHARLES F. MCKENNA.

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DEPARTMENT OF STREET CLEANING.
Nos. 13 to 21 Park row, 9 A. M. to 4 P. M. Telephone 3863 Cortlandt.

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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 1047 Eighteenth.

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DEPARTMENT OF PUBLIC CHARITIES.
Central Office.

Foot of East Twenty-sixth street, 9 A. M. to 5 P. M.

Telephone 3350 Madison Square.

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Telephone call, 1197 Cortlandt.
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President's Office, New Brighton, Staten Island.

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JOHN TIMLIN, Jr., Superintendent of Public Buildings and Offices.

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Borough of Manhattan—Office, New Criminal Court Building. Open at all times of day and night.

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Borough of The Bronx—Corner of Third avenue and One Hundred and Seventy-seventh street. Telephone 413, Tremont.

WALTER H. HENNING, Chief Clerk.
WILLIAM O'GORMAN, Jr., **JOSEPH I. BERRY**.
Borough of Brooklyn—Office, Room 17, Borough Hall. Telephone 4004 Main and 4005 Main.

PHILIP T. WILLIAMS, **MICHAEL J. FLAHERTY**, **JAMES L. GERSON**, Chief Clerk.
Open at all times of day and night, except between the hours of 12 M. and 5 P. M. on Sundays and holidays.

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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. 46 Richmond road, Stapleton. Open for the transaction of business all hours of the day and night.

GEORGE F. SCHAEFER.

NEW YORK COUNTY OFFICES.

SURROGATE.

New County Courthouse. Court open from 9 A. M. to 4 P. M., except Sundays, when it closes at 12 M.

FRANK T. FITZGERALD, **ABNER C. THOMAS**, Surrogates; **WILLIAM V. LEARY**, Chief Clerk.

SHERIFF.

Stewart Building, 9 A. M. to 4 P. M.
WILLIAM J. O'BRIEN, Sheriff; **EDWARD C. MOEN**, 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. HENNEBERRY, Chief Clerk.

REGISTER.

No. 116 Nassau street. 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 2 P. M.
JOHN H. J. RONNER, Register; **HENRY H. SHERMAN**, Deputy Register.

COUNTY CLERK.

Nos. 8, 9, 10 and 11 New County Courthouse.
Office hours from 9 A. M. to 2 P. M.

THOMAS L. HAMILTON, County Clerk.
HENRY BIRRELL, Deputy.
PATRICK H. DUNN, Secretary.

COMMISSIONER OF JURORS.

Room 127 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.

THOMAS ALLISON, Commissioner.

PUBLIC ADMINISTRATOR.

No. 119 Nassau street, 9 A. M. to 4 P. M.
WILLIAM M. HOES, 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, Courthouse. Clerk's Office, Rooms 19 and 22, open daily from 9 A. M. to 4 P. M.; Saturdays, 12 M.

JOSEPH ASPINALL and **FREDERICK E. CRANE**, County Judges.
CHARLES S. DEVOR, 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.

W. E. MELODY, Sheriff.

COUNTY JAIL.

Raymond street, between Willoughby street and DeKalb avenue, Brooklyn, New York.

W. E. MELODY.

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. TREDWELL, Deputy Register.
D. H. RALSTON, Assistant Deputy Register.

COUNTY CLERK.

Hall of Records, Brooklyn, 9 A. M. to 4 P. M.

CHARLES T. HARTZHEIM, County Clerk.

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Courthouse.

JACOB BRENNER, Commissioner.
FRANK J. GARDNER, Deputy Commissioner.
ALBERT B. WALDRON, 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.

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JOSEPH H. GREENELLE, Deputy Commissioner.
JOHN H. JOHNSON, Secretary.

THOMAS D. MOSSCROFT, Superintendent.
RICHARD S. STEVES, 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.

WILLIAM B. DAVENPORT, Public Administrator.

QUEENS COUNTY OFFICES.

SURROGATE.

DANIEL NOBLE, 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 5 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 BRAGGA, Sheriff; **JOSEPH C. BENNETT**, Under Sheriff.

DISTRICT ATTORNEY.

Office, Queens County Courthouse, Long Island City, 9 A. M. to 5 P. M.

GEORGE A. GREGG, District Attorney.

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 5 P. M.; Saturdays, 12 M.

County and Supreme Court held at the Queens County Courthouse, Long Island City. Court opens at 9:30 A. M., to adjourn 5 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. KNAUER, 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.

First 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.

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.

C. L. BOSTWICK, County Clerk.
County Courthouse, Richmond, S. I., 9 A. M. to 4 P. M.

SHERIFF.

FRANKLIN C. VITT, Sheriff.
THOMAS H. BANNING, 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 BRUNT, Presiding Justice; **EDWARD PATTERSON**, **MORGAN J. O'BRIEN**, **GEORGE L. INGRAHAM**, **CHESTER B. McLAUGHLIN**, **EDWARD W. HATCH**, **FRANK C. LAUGHLIN**, Justices; **ALFRED WAGSTAFF**, 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. 36.

Trial Term, Part II., Room No. 25.

Trial Term, Part III., Room No. 17.

Trial Term, Part IV., Room No. 18.

Trial Term, Part V., Room No. 16.

Trial Term, Part VI., Room No. 24.

Trial Term, Part VII., Room No. 23.

Trial Term, Part VIII., Room No. 33.

Trial Term, Part IX., Room No. 31.

Trial Term, Part X., Room No. 32.

Trial Term, Part XI., Room No. 22.

Trial Term, Part XII., Room No. 34.

Trial Term, Part XIII., and Special Term, VII., Room No. 26.

Appellate Term, Room No. 31.

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 10 A. M. daily, and remains open to close of business.
 GEORGE F. ROESCH, Justice. JULIUS HARBURGER, Clerk.

Fifth District—The Fifth District embraces the Eleventh Ward and all that portion of the Thirtieth Ward which lies east of the centre line of Norfolk street and north of the centre line of Pitt street and west of the centre line of Delancey street. Courtroom, No. 154 Clinton street.
 BENJAMIN HOFFMAN, Justice. THOMAS FITZPATRICK, 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 until close of business.
 DANIEL F. MARTIN, Justice. ABRAHAM BERNARD, Clerk.

Seventh District—Nineteenth Ward. Courtroom, No. 151 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 of Twenty-third street and Eighth avenue. Court opens at 10 A. M. and continues open until 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.
 JAMES W. McLAUGHLIN, Justice.
 HENRY MERZBACH, Clerk.

Ninth District—Twelfth Ward, except that portion thereof which lies west of the centre line of Lenox and Sixth avenue, and of the Harlem river north of the terminus of Lenox avenue. Courtroom, No. 170 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 P. FALLON, Justice. WILLIAM J. KENNEDY, Clerk.

Tenth District—The Tenth District embraces that portion of the Twenty-second Ward south of Seventieth street. 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—The Eleventh District embraces that portion of the Twelfth Ward which lies north of the centre line of West One Hundred and Tenth street, between Lenox avenue and Seventh avenue; north of the centre line of One Hundred and Twentieth street, between Broadway and the North or Hudson river, and west of the centre line 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.

Twelfth District—The Twelfth District embraces that portion of the Twenty-second Ward north of Seventieth street, and that portion of the Twelfth Ward which lies north of the centre line of Eighty-sixth street and west of the centre line of Seventh avenue and south of the centre line of the centre line of One Hundred and Nineteenth street, between Broadway and the North or Hudson river. Courtroom, 2630 Broadway.
 WILLIAM STILES BENNETT, Justice. FREDERICK E. WOOD, Clerk.

Thirteenth District—South side of Delancey street, from East river to Pitt street; east side of Pitt street, Grand street, south side of Grand street to Norfolk street, east side of Norfolk street to Division street, south side of Division street to Catharine street, east side of Catharine street to East river. Clerk's office open daily (Sundays and legal holidays excepted) from 9 A. M. to 4 P. M. JULIUS G. KREMER, Justice. Courtroom, No. 200 East Broadway.

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 1034 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 opens 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. THOMAS F. DELEHANTY, 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 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. TIERNAN, Justice. THOMAS A. MAHER, Clerk.

BOROUGH OF BROOKLYN.
 First District—Comprising First, Second, Third, Fourth, Fifth, Sixth, Tenth and Twelfth Wards of the Borough of Brooklyn. Courtroom, 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 District—Seventh, Ninth, Eleventh, Twentieth, Twenty-first and Twenty-third Wards. Courtroom located at No. 1217 Bedford avenue, Brooklyn. Calendar called at 10 o'clock A. M.
 GERARD 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. Courtroom, Nos. 6 and 8 Lee avenue, Brooklyn.
 WILLIAM J. LYNCH, Justice. JOHN W. CARPENTER, 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 GOHLINGHORST, 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. Courtroom, 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 Saturday, closing at 12 M. Trial days, Mondays, Wednesdays and Fridays. All other business transacted on Tuesdays and Thursdays.
 THOMAS C. KADIAN, Justice. THOMAS F. KENNEDY, Clerk.

Second District—Second and Third Wards, which includes the territory of the late Towns of Newtown and Flushing. Courtroom, in Courthouse of the 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 F. McLAUGHLIN, Justice. GEORGE W. DAMON, Clerk.
 Courthouse, 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 (Towns of Castleton and Northfield). Courtroom, former Village Hall, Lafayette avenue and Second street, New Brighton.
 JOHN J. KENNY, Justice. FRANCIS F. LEMAN, 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. STAKE, Justice. PETER TIERNAN, 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.

DEPARTMENT OF STREET CLEANING.

MAIN OFFICE OF THE DEPARTMENT OF STREET CLEANING, ROOM 1421, NOS. 13-21 PARK ROW, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Street Cleaning at the above office until 2 o'clock p. m., on

FRIDAY, OCTOBER 2, 1903.
 Boroughs of Manhattan and The Bronx.
 CONTRACT FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING AND DELIVERING TEN (10) SCOWS.

The time for the completion of the work and the full performance of the contract is as follows:
 2 scows within 90 days.
 4 scows within 125 days.
 4 scows within 160 days.

The bidder will state the price per scow, by which the bids will be tested. The bids will be read and awards made to the lowest bidder for the entire ten scows 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 and the plans and drawings may be seen at the office of the Department of Street Cleaning, the Borough of Manhattan, Nos. 13-21 Park row.
 JOHN McG. WOODBURY, Commissioner of Street Cleaning.
 Dated September 18, 1903. S21,02

See General Instructions to Bidders on the last page, last column, of the "City Record."

MAIN OFFICE OF THE DEPARTMENT OF STREET CLEANING, ROOM 1421, NOS. 13-21 PARK ROW, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Street Cleaning at the above office until 2 o'clock p. m., on

FRIDAY, OCTOBER 2, 1903.
 Borough of Brooklyn.
 CONTRACT FOR FURNISHING AND DELIVERING FORAGE.

The time for the delivery of the articles, materials and supplies and the performance of the contract, is by or before the 31st of December, 1903.

The amount of security required is fifty per cent. (50%) 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 one hundred pounds, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total and awards made to the lowest bidder.

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 Street Cleaning, the Borough of Manhattan, Nos. 13-21 Park row.

JOHN McG. WOODBURY, Commissioner of Street Cleaning.
 Dated September 18, 1903. S21,02

See General Instructions to Bidders on the last page, last column, of the "City Record."

MAIN OFFICE OF THE DEPARTMENT OF STREET CLEANING, ROOM 1421, NOS. 13-21 PARK ROW, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK, September 16, 1903.

Borough of Brooklyn.
 SALE OF UNUSED PROPERTY.
 PUBLIC NOTICE IS HEREBY GIVEN that, under the authority of section 541 of the Greater New York Charter, as amended, I shall, on Tuesday, the 29th day of September, 1903, at the Incumbence Yard of the Department of Street Cleaning, on Pacific street, between Utica and Rochester avenues, Borough of Brooklyn, sell at public auction the following unused property of this Department:

70 horses.
 5,000 pounds (more or less) old iron.
 50 pounds (more or less) old leather.
 1 set (more or less) old driving harness.
 19 (more or less) old pipe collars.
 4 (more or less) old wood hoisting blocks.
 150 pounds (more or less) old rubber.
 6 pairs (more or less) old cart hames.
 500 pounds (more or less) old canvas horse, cart and truck covers.

F. M. GIBSON, Deputy Commissioner of Street Cleaning. S16,29

MAIN OFFICE OF THE DEPARTMENT OF STREET CLEANING, ROOM 1421, NOS. 13-21 PARK ROW, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Street Cleaning at the above office until 2 o'clock p. m., on

WEDNESDAY, SEPTEMBER 23, 1903.
 Boroughs of Manhattan and The Bronx.
 Contract for Forage.

FOR FURNISHING AND DELIVERING FORAGE.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before the 31st day of December, 1903.

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 article per one hundred pounds, contained in the specifications or schedules herein contained or hereto annexed, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total and awards made to the lowest bidder.

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 Department of Street Cleaning, the Borough of Manhattan, Nos. 13-21 Park row.
 F. M. GIBSON, Deputy and Acting Commissioner of Street Cleaning.
 Dated September 9, 1903. S11,23

See General Instructions to Bidders on the last page, last column, of the "City Record."

ASHES, ETC., FOR FILLING IN LANDS.
 PERSONS HAVING LANDS OR PLACES in the vicinity of New York Bay to fill in can procure material for that purpose—ashes, street sweepings, etc., collected by the Department of Street Cleaning—free of charge by applying to the Commissioner of Street Cleaning, Nos. 13 to 21 Park Row, Borough of Manhattan.

JOHN McGAW WOODBURY, Commissioner of Street Cleaning.

OFFICIAL PAPERS.

Morning—"New York Tribune," "New York World."
 Evening—"Evening Sun," "Commercial Advertiser."
 Weekly—"Freeman's Journal," "Real Estate Record and Guide."
 German—"New York Staats-Zeitung."

Designated by Board of City Record, June 30, 1903.

POLICE DEPARTMENT.

POLICE DEPARTMENT OF THE CITY OF NEW YORK, PROPERTY CLERK'S OFFICE, No. 300 MULBERRY STREET, NEW YORK, September 17, 1903.

PUBLIC NOTICE IS HEREBY GIVEN that the following named horses will be sold at public auction at the saleroom of Messrs. Van Tassel & Kearney, No. 130 East Thirtieth street, on the 25th day of September, 1903, at 10 o'clock a. m.

Oscar, No. 179.
 Budd, No. 141, Eightieth Precinct.
 CHARLES D. BLATCHFORD, Property Clerk. S19,25

POLICE DEPARTMENT OF THE CITY OF NEW YORK, PROPERTY CLERK'S OFFICE, No. 300 MULBERRY STREET, NEW YORK, September 14, 1903.

PUBLIC NOTICE IS HEREBY GIVEN that the following named horse, Oscar, No. 179, will be sold at public auction at the saleroom of Messrs. Van Tassel & Kearney, No. 130 East Thirtieth street, on the 25th day of September, 1903, at 10 o'clock a. m.

CHARLES D. BLATCHFORD, Property Clerk. S16,25

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: Boats, 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.
 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, No. 16 Smith street, Borough of Brooklyn—for the following property, now in his custody, without claimants: Boats, rope, iron, lead male and female clothing, boots, shoes, wine, blankets, diamonds, canned goods, liquor, etc., also small amount of money taken from prisoners and found by Patrolmen of this Department.
 EDWARD E. DOONAN, Deputy Property Clerk.

DEPARTMENT OF BRIDGES.

DEPARTMENT OF BRIDGES, NOS. 13 TO 21 PARK ROW, MANHATTAN, THE CITY OF NEW YORK, BOROUGH OF MANHATTAN.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Bridges at the above office until 12 o'clock noon, on

THURSDAY, SEPTEMBER 24, 1903.
 FOR FURNISHING ALL THE LABOR, MATERIALS AND PLANT NECESSARY FOR THE CONSTRUCTION OF THE FOUNDATIONS, PIERS, ABUTMENTS AND ARCHES OF PELHAM BRIDGE OVER EASTCHESTER BAY, IN PELHAM BAY PARK, BOROUGH OF THE BRONX.

The amount of security required is one hundred thousand dollars (\$100,000). The entire work must be completed on or before the first day of August, 1904.

Blank forms and further information may be obtained at the office of Department of Bridges, Nos. 13-21 Park Row, Manhattan.
 GUSTAV LINDENTHAL, Commissioner of Bridges. S29,511

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF BRIDGES, NOS. 13 TO 21, PARK ROW, MANHATTAN, THE CITY OF NEW YORK, BOROUGH OF MANHATTAN.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Bridges at the above office until 12 o'clock noon on

THURSDAY, SEPTEMBER 24, 1903.
 FOR FURNISHING ALL THE LABOR, MATERIALS AND PLANT NECESSARY FOR

THE CONSTRUCTION OF THE STEEL SUPERSTRUCTURE OF THE BLACKWELL'S ISLAND BRIDGE (No. 4) OVER THE EAST RIVER BETWEEN THE BOROUGH OF MANHATTAN AND QUEENS.

The work here advertised will consist of making the working drawings, and furnishing and erecting in place the steel superstructure in accordance with the general plans and specifications furnished by the Department of Bridges.

The amount of security required is one million dollars (\$1,000,000). The entire work must be completed on or before the first day of May, 1906.

GUSTAV LINDENTHAL, Commissioner of Bridges. S10,810

See General Instructions to Bidders on the last page, last column, of the "City Record."

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, OCTOBER 1, 1903.
 Borough of Manhattan.
 No. 1. FOR REPAIRS TO THE PAVEMENTS OF THE CENTRAL AND CITY PARKS.

The time allowed for the completion of the whole work will be seventy-five consecutive working days.
 The amount of the security required is eight thousand dollars.

No. 2. FOR FURNISHING AND ERECTING GAS PIPE FENCES ALONG THE WALK IN CENTRAL PARK, ADJACENT TO FIFTH AVENUE, BETWEEN NINETEENTH AND NINETEENTH-EIGHTH STREETS.

The time allowed for doing and completing the work will be forty consecutive working days.
 The amount of the security required will be twelve hundred dollars.

The contracts must be bid for separately. The bids will be compared and the contracts awarded at a lump or aggregate sum for each contract.

Blank forms may be obtained and plans may be seen at the office of the Department of Parks, the Arsenal, Central Park, Manhattan.
 WILLIAM R. WILLCOX,
 JOHN E. EUSTIS,
 RICHARD YOUNG, Commissioners. S21,01

Dated September 18, 1903. S21,01

See General Instructions to Bidders on the last page, last column, of the "City Record."

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, SEPTEMBER 24, 1903.
 Borough of Manhattan.
 No. 1. FOR FURNISHING, DELIVERING AND LAYING 150,000 SQUARE FEET OF GRASS SOD ON PARKS NORTH OF FIFTY-NINTH STREET.

The time allowed for doing and completing the work will be as required before December 1, 1903.
 The amount of security required will be one thousand dollars.

No. 2. FOR FURNISHING AND DELIVERING 3,500 CUBIC YARDS OF GARDEN MOLD WHERE REQUIRED ON PARKS NORTH OF FIFTY-NINTH STREET.

The time allowed for the completion of the work will be as required before December 1, 1903.
 Amount of security required will be \$1,700. The contracts must be bid for separately. The bids will be compared and the contracts awarded at a lump or aggregate sum for each contract.

Blank forms may be obtained and plans may be seen at the office of the Department of Parks, the Arsenal, Central Park.
 WILLIAM R. WILLCOX,
 JOHN E. EUSTIS,
 RICHARD YOUNG, Commissioners. S12,24

Dated September 11, 1903. S12,24

See General Instructions to Bidders on the last page, last column, of the "City Record."

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, SEPTEMBER 24, 1903.
 Borough of Manhattan.
 FOR CONSTRUCTING WALKS OF ROCK ASPHALT MASTIC, FURNISHING AND DEPOSITING MOLD, FURNISHING AND LAYING SOD, AND FURNISHING AND ERECTING WIRE FENCE IN MANHATTAN SQUARE.

The time allowed for the completion of the whole work will be seventy-five consecutive working days.
 The amount of the security required is fifteen thousand dollars.

The bids will be compared and the contract awarded at a lump or aggregate sum.
 Blank forms may be obtained and plans may be seen at the office of the Department of Parks, the Arsenal, Central Park.

WILLIAM R. WILLCOX,
 JOHN E. EUSTIS,
 RICHARD YOUNG, Commissioners. S12,24

Dated September 11, 1903. S12,24

See General Instructions to Bidders on the last page, last column, of the "City Record."

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, OCTOBER 29, 1903.
 Borough of Manhattan.
 Contract No. 4.
 FOR WORK AND MATERIALS FOR ERECTION AND COMPLETION OF THE LIBRARY STACK WORK IN THE NEW YORK PUBLIC

LIBRARY, ASTOR, LENOX AND TILDEN FOUNDATIONS, FIFTH AVENUE, FORTIETH AND FORTY-SECOND STREETS.

The time allowed for doing and completing the first section of the work will be three calendar months after notice to begin work at the building has been given by the architects, and for section 2 the time shall be four months after notice to begin work at the building shall have been given by the architects.

The amount of security required will be one hundred thousand dollars.

The bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms may be obtained and plans may be seen at the office of the Department of Parks, the Arsenal, Central Park, and also at the office of the architects, Carrere & Hastings, No. 28 East Forty-first street.

WILLIAM R. WILLCOX,
JOHN E. EUSTIS,
RICHARD YOUNG,
Commissioners,
a29,817

Dated August 29, 1903.

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1536, NOS. 13-21 PARK ROW, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m., on

THURSDAY, OCTOBER 1, 1903.

Borough of Brooklyn.

No. 1. FOR FURNISHING AND DELIVERING PIPE, ETC.

Delivery of the supplies and the performance of the contract to be fully completed on or before December 31, 1903.

The amount of security shall be three thousand dollars (\$3,000).

No. 2. FOR FURNISHING AND DELIVERING MISCELLANEOUS HARDWARE.

Delivery of the supplies and the performance of the contract to be fully completed on or before December 31, 1903.

The amount of security shall be seven hundred dollars (\$700).

No. 3. FOR FURNISHING AND DELIVERING LUMBER.

Delivery of the supplies and the performance of the contract to be fully completed on or before December 31, 1903.

The amount of security required will be six hundred dollars (\$600).

No. 4. FOR FURNISHING AND DELIVERING STABLE AND MISCELLANEOUS SUPPLIES.

Delivery of the supplies and the performance of the contract to be fully completed on or before December 31, 1903.

The amount of security required will be four hundred dollars (\$400).

No. 5. FOR FURNISHING AND DELIVERING METALS (STEEL, IRON, LEAD, ETC.).

Delivery of the supplies and the performance of the contract to be fully completed on or before December 31, 1903.

The amount of security required will be eight hundred dollars (\$800).

No. 6. FOR FURNISHING AND DELIVERING PAINT SUPPLIES.

Delivery of the supplies and the performance of the contract to be fully completed on or before December 31, 1903.

The amount of security required will be three hundred dollars (\$300).

The bidder will state a lump or aggregate sum for each contract.

Blank forms may be obtained at the office of the Department of Water Supply, Gas and Electricity, the Borough of Manhattan, Nos. 13 to 21 Park row, and at the office of the Deputy Commissioner for the Borough of Brooklyn, Room 28, Municipal Building, Brooklyn.

ROBERT GRIER MONROE, Commissioner.
Dated September 18, 1903. s19,01

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1536, NOS. 13-21 PARK ROW, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m., on

WEDNESDAY, SEPTEMBER 23, 1903.

Borough of Queens.

No. 1. FOR FURNISHING MATERIALS AND DRIVING WELLS AT PUMPING STATION NO. 3, IN THE FIRST WARD, BOROUGH OF QUEENS.

The time allowed to complete the whole work will be ninety days.

The amount of security will be two thousand dollars.

Boroughs of Manhattan and The Bronx.

No. 2. FOR FURNISHING, DELIVERING AND LAYING WATER MAINS IN COMMONWEALTH, DORIS, GLEBE, JACKSON, HAR-RISON, MAPES, MCGRAW, PROSPECT, ROSEDALE, ST. LAWRENCE, WASHINGTON AND ZULETA AVENUES; IN AVENUES B AND D; IN FOREST, LINCOLN, POPLAR, ROSELLE, SECOND, THIRD, FOURTH, FIFTH, SEVENTH, EIGHTH, NINTH, TENTH, ELEVENTH, TWELFTH, THIRTEENTH, FOURTEENTH AND FIFTEENTH STREETS; IN GUERLAIN PLACE, AND IN EASTCHESTER, UNIONPORT, WEST FARMS AND FERRY POINT ROADS.

The time allowed to complete the whole work will be two hundred (200) days.

The amount of security will be twenty thousand dollars.

No. 3. FOR FURNISHING, DELIVERING AND LAYING WATER MAINS IN CENTRE, ELLIOTT, FORDHAM, MINNIFORD, PROSPECT, SCHOFIELD, SECOND, FOURTH, FIFTH AND SIXTH AVENUES; IN BAY, BEACH, KING, JULIANA, LINCOLN, SHELL, FIRST, SECOND, THIRD, FOURTH, FIFTH, SEVENTH, EIGHTH, NINTH, TENTH, THIRTEENTH, FOURTEENTH, FIFTEENTH, SIXTEENTH, SEVENTEENTH AND TWENTIETH STREETS; IN BRONX TERRACE, PROSPECT TERRACE AND BEAR SWAMP ROAD.

The time allowed to complete the whole work will be one hundred and fifty (150) days.

The amount of security will be twenty thousand dollars.

No. 4. FOR FURNISHING AND DELIVERING PIG LEAD.

The time allowed to complete the whole work will be ninety days.

The amount of security required will be five hundred dollars.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per

ton, linear foot, or other unit of measure, by which the bids will be tested.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Blank forms may be obtained at the office of the Department of Water Supply, Gas and Electricity, Borough of Manhattan, Nos. 13 to 21 Park row.

ROBERT GRIER MONROE, Commissioner.
Dated September 11, 1903. s12,23

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1536, NOS. 13-21 PARK ROW, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m., on

WEDNESDAY, SEPTEMBER 23, 1903.

Borough of Brooklyn.

FOR FURNISHING AND DELIVERING LABORATORY SUPPLIES TO MT. PROSPECT LABORATORY, AT FLATBUSH AVENUE AND EASTERN PARKWAY.

The delivery of the supplies and the performance of the contract is to be fully completed on or before December 31, 1903.

The amount of security required will be five hundred dollars (\$500).

The bidder will state a lump or aggregate sum for each contract.

Blank forms may be obtained at the office of the Department of Water Supply, Gas and Electricity, the Borough of Manhattan, Nos. 13 to 21 Park row, and at the office of the Deputy Commissioner for the Borough of Brooklyn, Room 28, Municipal Building, Brooklyn.

ROBERT GRIER MONROE, Commissioner.
Dated September 10, 1903. s11,23

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF FINANCE.

INTEREST ON CITY BONDS AND STOCK.

THE INTEREST DUE NOVEMBER 1, 1903, on the Registered Bonds and Stock of The City of New York will be paid on that day by the Comptroller, at his office in the Stewart Building, corner of Broadway and Chambers street (Room 39).

The Transfer Books thereof will be closed from October 15, 1903, to November 1, 1903.

The interest due November 1, 1903, on the Coupon Bonds and Stock of the present and former City of New York will be paid on that day by the Knickerbocker Trust Company, No. 66 Broadway.

The interest due November 1, 1903, on Coupon Bonds of other Corporations now included in The City of New York will be paid on that day at the office of the Comptroller.

EDWARD M. GROUT, Comptroller.
THE CITY OF NEW YORK—DEPARTMENT OF FINANCE, COMPTROLLER'S OFFICE, September 10, 1903. s11,01

INTEREST ON CITY BONDS AND STOCK.

THE INTEREST DUE OCTOBER 1, 1903, on the Registered Bonds and Stock of The City of New York will be paid on that day by the Comptroller, at his office in the Stewart Building, corner of Broadway and Chambers street (Room 39).

The Transfer Books thereof will be closed from September 15 to October 1, 1903.

The interest due October 1, 1903, on the Coupon Bonds and Stock of the former City of New York will be paid on that day by the Knickerbocker Trust Company, No. 66 Broadway.

The interest due October 1, 1903, on Coupon Bonds of other Corporations now included in The City of New York, will be paid on that day at the office of the Comptroller.

EDWARD M. GROUT, Comptroller.
THE CITY OF NEW YORK—DEPARTMENT OF FINANCE, COMPTROLLER'S OFFICE, September 10, 1903. s11,01

DEPARTMENT OF FINANCE, CITY OF NEW YORK
March 26, 1903.

UNTIL FURTHER NOTICE AND UNLESS otherwise directed in any special case, one surety company will be accepted as sufficient upon all contracts for supplies for furniture, and for gas and electric lighting to any amount, and upon the following contracts to the amounts named:

For supplies and furniture, with patented articles	\$5,000
Regulating, grading, paving (other than asphalt)	15,000
Over 2 years	5,000
School building repairs	10,000
Heating and lighting apparatus	5,000
New buildings—New docks	25,000
Sewers—Dredging and water mains—	
Not over 2 years	10,000
Over 2 years	5,000

EDWARD M. GROUT, Comptroller.

NOTICE TO TAXPAYERS.

DEPARTMENT OF FINANCE, BUREAU FOR THE COLLECTION OF TAXES, NEW YORK, September 1, 1903.

TAXPAYERS WHO DESIRE TO OBTAIN their bills promptly should make immediate written requisition (blanks may be procured in the borough offices), stating their property by Section or Ward, Block and Lot or Map number, making copy of same from their bills of last year.

If a taxpayer is assessed for personal tax, the requisition should also request bill for such tax.

Each requisition should be accompanied by an envelope bearing the proper address of the applicant, AND WITH RETURN POSTAGE PREPAID.

In case of any doubt in regard to Ward, Section, Block or Lot number, taxpayers should take their deeds to the Department of Taxes and Assessments and have their property located on the maps of that Department and forward to the Deputy Receiver of Taxes with the requisition a certified memorandum of their property, which will be furnished by the Department of Taxes and Assessments.

Taxpayers in this manner will receive their bills returned by mail at the earliest possible moment and avoid any delay caused by waiting on lines, and is required in case of personal application.

The requisition must be addressed and mailed to the Deputy Receiver of Taxes in whichever borough the property is located, as follows:

JOHN J. McDONOUGH, No. 57 Chambers street, Borough of Manhattan, New York.

JOHN B. UNDERHILL, corner Third and Tremont avenues, Borough of The Bronx, New York.

JACOB S. VAN WYCK, Municipal Building, Borough of Brooklyn, New York.

FREDERICK W. BLECKWENN, corner Jackson avenue and Fifth street, Long Island City, Borough of Queens, New York.

JOHN DE MORGAN, Bay and Sand streets, Stapleton, Staten Island, Borough of Richmond, New York.

After receiving the bills, the taxpayer will see that they are properly rebated, then draw check for the net amount to the order of the Receiver of Taxes and mail bill and check, with an addressed envelope, with the return postage prepaid, to the Deputy Receiver in whichever borough the property is located.

All bills paid during October must be rebated before payment.

DAVID E. AUSTEN, Receiver of Taxes.
s1,031

BOARD OF ASSESSORS.

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

BOROUGH OF MANHATTAN.

List 7333, No. 1. Alteration and improvement to sewer in Twenty-third street, between new bulkhead line and First avenue, with overflow, and new sewers in Avenue A, between Twenty-second and Twenty-fourth streets.

List 7516, No. 2. Flagging sidewalks on the north side of Ninety-second street, from 100 feet east of Riverside drive to a point 70 feet further east.

The limits within which it is proposed to lay the said assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. North side of Twenty-second street extending about 240 feet east of Avenue A; both sides of Twenty-third street, from Lexington avenue to the East river; north side of Twenty-third street, from Lexington avenue to Fourth avenue; both sides of Twenty-fourth and Twenty-fifth streets, from Second avenue to Madison avenue; both sides of Twenty-sixth street, from Second avenue to Sixth avenue; both sides of Twenty-seventh street, from Second avenue to a point distant about 240 feet west of Broadway; both sides of Twenty-eighth street, from Third avenue to a point distant about 150 feet west of Broadway; both sides of Twenty-ninth and Thirtieth streets, from Fourth avenue to Broadway; both sides of Thirty-first street, from Madison avenue to Broadway; south side of Thirty-first street, from Fourth avenue to Madison avenue; south side of Thirty-second street extending westerly from Fifth avenue about 475 feet; both sides of Thirty-second, Thirty-third, Thirty-fourth, Thirty-fifth, Thirty-sixth and Thirty-seventh streets, from Park avenue to Fifth avenue; both sides of Thirty-eighth street extending about 40 feet east of Madison avenue; both sides of Avenue A, from Twenty-second to Twenty-fourth street; both sides of First avenue, from Twenty-third to Twenty-fourth street; east side of Second avenue, from Twenty-second to Twenty-third street; both sides of Second avenue, from Twenty-third to Twenty-seventh street; east side of Third avenue extending about 100 feet north of Twenty-seventh street, and west side of Third avenue, from Twenty-seventh to Twenty-eighth street; both sides of Lexington avenue, from Twenty-third to Twenty-eighth street; east side of Fourth avenue, from Twenty-third to Twenty-ninth street; west side of Fourth avenue, from a point about 80 feet south of Twenty-fourth street to Thirty-first street; west side of Fourth avenue, from Thirty-second to Thirty-seventh street; both sides of Madison avenue, from a point about 80 feet south of Twenty-fourth street to Thirty-eighth street; both sides of Fifth avenue, from Twenty-fifth to Thirty-second street; east side of Fifth avenue, from Thirty-second to Thirty-sixth street, and from Thirty-seventh street about 105 feet northerly; west side of Fifth avenue, from Thirty-third to Thirty-fourth street; both sides of Broadway, from Twenty-fifth street to Twenty-ninth street, and east side of Broadway, from Twenty-ninth to Thirty-first street.

No. 2. North side of Ninety-second street, east of Riverside drive, on Block 1252, Lots Nos. 6, 7 and 8.

All persons whose interests are affected by the above-named proposed assessments, and who are opposed to the same, or either of them, are requested to present their objections, in writing, to the Secretary of the Board of Assessors, No. 320 Broadway, New York, on or before October 22, 1903, at 3 p. m., at which time and place the said objections will be heard and testimony received in reference thereto.

BENJAMIN E. HALL,
HENRY B. KETCHAM,
ENOCH VREELAND,
Board of Assessors.

WILLIAM H. JASPER, Secretary, No. 320 Broadway.
CITY OF NEW YORK, BOROUGH OF MANHATTAN.
September 21, 1903. s21,01

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

BOROUGH OF MANHATTAN.

List 7331, No. 1. Regulating, grading, curbing and flagging Audubon avenue, from One Hundred and Seventy-fifth street to Fort George avenue.

The limits within which it is proposed to lay the said assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of Audubon avenue, from One Hundred and Seventy-fifth street to Fort George avenue, and to the extent of half the block at the intersecting and terminating streets and avenues.

All persons whose interests are affected by the above-named proposed assessments, and who are opposed to the same, or either of them, are requested to present their objections, in writing, to the Secretary of the Board of Assessors, No. 320 Broadway, New York, on or before October 15, 1903, at 3 p. m., at which time and place the said objections will be heard and testimony received in reference thereto.

BENJAMIN E. HALL,
HENRY B. KETCHAM,
ENOCH VREELAND,
Board of Assessors.

WILLIAM H. JASPER, Secretary, No. 320 Broadway.
CITY OF NEW YORK, BOROUGH OF MANHATTAN.
September 15, 1903. s15,25

BOARD OF ESTIMATE AND APPORTIONMENT.

WHEREAS, THE PRESIDENT OF THE Borough of Richmond has prepared, completed and submitted to this Board, for its concurrence and approval, a map or plan, with profile, of the final maps and profiles of the Borough of Richmond, City of New York, showing the laying out and establishing of grades of First street, from Franklin avenue to New York avenue, in the First Ward, in the said Borough of Richmond, City of New York, located and laid out by the said President of the Borough of Richmond in pursuance of section 439 of the Greater New York Charter.

Resolved, That a hearing in the above matter will be held at the meeting of the Board of Estimate and Apportionment on September 30, 1903, at 10.30 o'clock in the forenoon, in the City Hall, Borough of Manhattan, City of New York.

J. W. STEVENSON, Secretary.
Attest: JOHN H. MOONEY, Assistant Secretary.

WHEREAS, THE PRESIDENT OF THE Borough of Richmond has prepared, completed and submitted to this Board, for its concurrence and approval, a map or plan, with profile, of the final maps and profiles of the Borough of Richmond, City of New York, showing the laying out and grades of Hatfield avenue and Harrison avenue, between Nicholas avenue and Richmond avenue, together with the intersecting streets, namely, Lafayette avenue, Sharpe avenue and Elm street, Third Ward, in the said Borough of Richmond, City of New York, located and laid out by the said President of the Borough of Richmond in pursuance of section 439 of the Greater New York Charter.

Resolved, That a hearing in the above matter will be held at the meeting of the Board of Estimate and Apportionment on the 30th day of September, 1903, at 10.30 o'clock in the forenoon, in the City Hall, Borough of Manhattan, City of New York.

J. W. STEVENSON, Secretary.
Attest: JOHN H. MOONEY, Assistant Secretary.

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, so as to change the grade of Van Siclen avenue from Blake avenue to Livonia avenue; of Dumont avenue, between Miller avenue and Schenck avenue, and of Hendrix street, between Livonia and Blake avenues, in the Borough of Brooklyn, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions, adopted by the Board of Estimate and Apportionment on the 28th day of July, 1903, notice of the adoption of which is hereby given, viz:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442, of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the grade of Van Siclen avenue, from Blake avenue to Livonia avenue; of Dumont avenue, between Miller avenue and Schenck avenue, and of Hendrix street, between Livonia and Blake avenues, in the Borough of Brooklyn, City of New York, more particularly described as follows:

"A"—Dumont Avenue.
Beginning at the intersection of Dumont and Schenck avenue, the elevation to be 18.00 feet, as heretofore:

1. Thence westerly to the intersection of Hendrix street, the elevation to be 17.00 feet.

2. Thence westerly to the intersection of Van Siclen avenue, the elevation to be 21.00 feet.

3. Thence westerly to the intersection of Miller avenue, the elevation to be 25.45 feet, as heretofore.

"B"—Hendrix Street.
Beginning at the intersection of Hendrix street and Livonia avenue, the elevation to be 30.35 feet, as heretofore.

Indian avenue, Jewett avenue, New York avenue, Manor road, Main avenue, Jewett avenue, Washington place, Watchogue road and Palmer's run, in the said Borough of Richmond, City of New York, located and laid out by the said President of the Borough of Richmond in pursuance of section 439 of the Greater New York Charter.

Resolved, That a hearing in the above matter will be held at the meeting of the Board of Estimate and Apportionment on September 30, 1903, at 10.30 o'clock in the forenoon, in the City Hall, Borough of Manhattan, City of New York.

J. W. STEVENSON, Secretary.
Attest: JOHN H. MOONEY, Assistant Secretary.

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, so as to widen Fifty-ninth street 40 feet on the north side, between Second avenue and Fifth avenue, and between the Circle at Eighth avenue and Columbus avenue, in the Borough of Manhattan, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions, adopted by the Board of Estimate and Apportionment on the 16th day of September, 1903, notice of the adoption of which is hereby given, viz:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by widening Fifty-ninth street 40 feet on the north side, between Second avenue and Fifth avenue, and between the Circle at Eighth avenue and Columbus avenue, in the Borough of Manhattan, City of New York.

Resolved, That the President of the Borough of Manhattan cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares or places sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the "City Record" for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

1. Thence northerly to the intersection of Dumont avenue, the elevation to be 17.00 feet.
2. Thence northerly to the intersection of Blake avenue, the elevation to be 19.50 feet, as heretofore.

"C"—Van Sicken Avenue.

Beginning at the intersection of Van Sicken avenue and Livonia avenue, the elevation to be 27.05 feet, as heretofore.

1. Thence northerly to the intersection of Dumont avenue, the elevation to be 21.00 feet.
2. Thence northerly to the intersection of Blake avenue, the elevation to be 23.55 feet.

All elevations refer to mean high water datum, as established by the Bureau of Highways, Borough of Brooklyn.

Resolved, That the President of the Borough of Brooklyn cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares, or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the "City Record" and the corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.

Attest: JOHN H. MOONEY, Assistant Secretary.
s18,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of the City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to close and discontinue Battery avenue, from Warehouse avenue to One Hundred and Seventh street, from Battery avenue to Seventh avenue, and One Hundred and Sixth street, from Warehouse avenue to Seventh avenue, in the Borough of Brooklyn, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions, adopted by the Board on the 28th day of July, 1903, notice of the adoption of which is hereby given, viz:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by closing and discontinuing Battery avenue, from Warehouse avenue to One Hundred and Seventh street; One Hundred and Sixth street, from Warehouse avenue to Seventh street, from Battery avenue to Seventh avenue, and One Hundred and Sixth street, from Warehouse avenue to Seventh avenue, in the Borough of Brooklyn, City of New York, more particularly described as follows:

A—Battery Avenue, from Warehouse Avenue to One Hundred and Seventh Street.

The western line of Battery avenue begins at the intersection of the western line of Warehouse avenue with the southern line of Warehouse avenue, as the same are laid down on the map of the City.

1. Thence southerly along the western line of Battery avenue to the southern line of One Hundred and Seventh street.

The eastern line of Battery avenue is parallel and 80 feet easterly of the western line of Battery avenue, aforesaid.

B—One Hundred and Seventh Street, from Battery Avenue to Seventh Avenue.

The northern line of One Hundred and Seventh street begins at the intersection of the northern line of One Hundred and Seventh street and the eastern line of Battery avenue, as the same are laid down on the map of the City.

1. Thence easterly along the northern line of One Hundred and Seventh street to the western line of Seventh avenue.

The southern line of One Hundred and Seventh street is 80 feet southerly and parallel to the northern line of One Hundred and Seventh street, aforesaid.

C—One Hundred and Sixth Street, from Warehouse Avenue to Seventh Avenue.

The northern line of One Hundred and Sixth street begins at the intersection of the northern line of One Hundred and Sixth street with the eastern line of Warehouse avenue, as the same are laid down on the map of the City.

1. Thence easterly along the northern line of One Hundred and Sixth street to Seventh avenue. The southern line of One Hundred and Sixth street is 60 feet southerly and parallel to the northern line aforesaid.

Resolved, That the President of the Borough of Brooklyn cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares, or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the "City Record" and the corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.

Attest: JOHN H. MOONEY, Assistant Secretary.
s18,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of the City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the grade of First avenue, between Seventy-third street and Seventy-ninth street, and of Seventy-fourth, Seventy-fifth, Seventy-sixth, Seventy-seventh and Seventy-eighth streets, between Narrows avenue and Second avenue, in the Borough of Brooklyn, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions adopted by

the Board on the 28th day of July, 1903, notice of the adoption of which is hereby given, viz:

"A"—First Avenue.

Beginning at the intersection of Seventy-third street, the elevation to be 35.50 feet, as heretofore;

1. Thence southerly to the intersection with Seventy-fourth street, the elevation to be 34.17 feet;

2. Thence southerly to the intersection with Seventy-fifth street, the elevation to be 32.84 feet;

3. Thence southerly to the intersection with Seventy-sixth street, the elevation to be 31.44 feet;

4. Thence southerly to the intersection with Seventy-seventh street, the elevation to be 29.84 feet;

5. Thence southerly to the intersection with Seventy-eighth street, the elevation to be 28.42 feet;

6. Thence southerly to the intersection with Seventy-ninth street, the elevation to be 27.0 feet, as heretofore.

"B"—Seventy-fourth Street.

Beginning at the intersection with Narrows avenue, the elevation to be 27.0 feet, as heretofore.

1. Thence easterly to the intersection with First avenue, the elevation to be 34.17 feet;

2. Thence easterly to the intersection with Second avenue, the elevation to be 76.50 feet, as heretofore.

"C"—Seventy-fifth Street.

Beginning at the intersection with Narrows avenue, the elevation to be 30.0 feet, as heretofore.

1. Thence easterly to the intersection with First avenue, the elevation to be 32.84 feet;

2. Thence easterly to the intersection with Second avenue, the elevation to be 75.0 feet, as heretofore.

"D"—Seventy-sixth Street.

Beginning at the intersection with Narrows avenue, the elevation to be 27.53 feet, as heretofore.

1. Thence easterly to the intersection with First avenue, the elevation to be 31.44 feet;

2. Thence easterly to the intersection with Second avenue, the elevation to be 68.75 feet, as heretofore.

"E"—Seventy-seventh Street.

Beginning at the intersection with Narrows avenue, the elevation to be 25.03 feet, as heretofore.

1. Thence easterly to the intersection with First avenue, the elevation to be 29.85 feet;

2. Thence easterly to the intersection with Second avenue, the elevation to be 59.49 feet, as heretofore.

"F"—Seventy-eighth Street.

Beginning at the intersection with Narrows avenue, the elevation to be 22.53 feet, as heretofore.

1. Thence easterly to the intersection with First avenue, the elevation to be 28.42 feet;

2. Thence easterly to the intersection with Second avenue, the elevation to be 50.22 feet, as heretofore.

All elevations refer to mean high-water datum, as established by the Bureau of Highways, Borough of Brooklyn.

Resolved, That the President of the Borough of Brooklyn cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the "City Record" and the corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.

Attest: JOHN H. MOONEY, Assistant Secretary.
s18,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of the City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to lay out an extension to Grand street, in the Borough of Brooklyn, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions, adopted by the Board on the 28th day of July, 1903, notice of the adoption of which is hereby given, viz:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by laying out an extension to Grand street, in the Borough of Brooklyn, City of New York, more particularly described as follows:

The southern line to begin at a point in the western line of Union avenue, distant 15.0 feet southerly from the intersection of the western line of Union avenue with the southerly line of Grand street, as the same are laid down on the map of the City.

1. Thence westerly to a point in the southwestern line of South Second street, distant 89.17 feet northwesterly from the intersection of the southwestern line of South Second street with the northwestern line of Key street.

2. Thence westerly to the intersection of the southwestern line of South Fifth street with the southeastern line of Havemeyer street.

The northern line of the street to be 110 feet from and parallel to the above described southerly line.

Resolved, That the President of the Borough of Brooklyn cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares, or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the "City Record" and the corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.

Attest: JOHN H. MOONEY, Assistant Secretary.
s18,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of the City of New York, deeming it for the public

interest so to do, proposes to alter the map or plan of The City of New York so as to lay out a public park or place to be known as Jewell square, in the Borough of Brooklyn, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions adopted by the Board on the 16th day of September, 1903, notice of the adoption of which is hereby given, viz:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by laying out a public park or place, to be known as Jewell square, in the Borough of Brooklyn, City of New York, more particularly described as follows:

Beginning at the intersection of the easterly side of Williams place with the southerly side of Fulton street;

Running thence easterly along the southerly side of Fulton street to the northerly side of East New York avenue;

Thence westerly along the northerly side of East New York avenue to the intersection with the westerly side of Williams avenue, the same being prolonged northerly;

Thence northerly along the line corresponding with a prolongation of the westerly side of Williams avenue until it meets a line corresponding with a prolongation easterly of the southerly side of Herkimer street;

Thence westerly along the said last mentioned line (corresponding with the prolongation of the southerly side of Herkimer street) to the easterly side of Williams place;

Thence northerly along the easterly side of Williams place to the point or place of beginning.

Resolved, That the President of the Borough of Brooklyn cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the "City Record" and the corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.

Attest: JOHN H. MOONEY, Assistant Secretary.
s18,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of the City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to widen Roebeling street, between South Fourth street and Union avenue, in the Borough of Brooklyn, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions, adopted by the Board on the 20th day of July, 1903, notice of the adoption of which is hereby given, viz:

Beginning at a point formed by the intersection of the westerly line of Roebeling street with the northerly line of South Fourth street; thence northerly along the westerly line of Roebeling street 100 feet to its intersection with the southerly line of South Third street; thence westerly along the southerly line of South Third street 20 feet; thence southerly along a line parallel with Roebeling street 100 feet to its intersection with the northerly line of South Fourth street; thence easterly along the northerly line of South Fourth street 20 feet to the point of beginning.

Beginning at a point formed by the intersection of the westerly line of Roebeling street with the northerly line of South Third street; thence northerly along the westerly line of Roebeling street 240 feet, to its intersection with the southerly line of South Second street; thence westerly along the southerly line of South Second street 20 feet; thence southerly along a line parallel with Roebeling street 240 feet, to its intersection with the northerly line of South Third street; thence easterly along the northerly line of South Third street 20 feet to the point of beginning.

Beginning at a point formed by the intersection of the westerly line of Roebeling street with the northerly line of South Second street; thence northerly along the westerly line of Roebeling street, 200 feet to its intersection with the southerly line of South First street; thence westerly along the southerly line of South First street 20 feet; thence southerly along a line parallel with Roebeling street, 200 feet to its intersection with the northerly line of South Second street; thence easterly along the northerly line of South Second street 20 feet to the point of beginning.

Beginning at a point formed by the intersection of the westerly line of Roebeling street with the northerly line of South First street; thence northerly along the westerly line of Roebeling street, 144 feet to its intersection with the southerly line of Grand street; thence westerly along the southerly line of Grand street, 20 feet more or less; thence southerly along a line parallel with Roebeling street, 144 feet 9/4 inches more or less to its intersection with the northerly line of South First street; thence easterly along the northerly line of South First street, 20 feet to the point of beginning.

Beginning at a point formed by the intersection of the westerly line of Roebeling street with the northerly line of Grand street; thence northerly along the westerly line of Roebeling street, 136 feet 10 inches to its intersection with the southerly line of Fillmore place; thence westerly along the southerly line of Fillmore place, 20 feet, more or less; thence southerly along a line parallel with and 20 feet westerly from the westerly line of Roebeling street, 136 feet, more or less, to its intersection with the northerly line of Grand street; thence easterly along the northerly line of Grand street, 20 feet, more or less, to the point of beginning.

Beginning at a point formed by the intersection of the westerly line of Roebeling street with the northerly line of Fillmore place; thence northerly along the westerly line of Roebeling street, 231 feet 8 inches to its intersection with the southerly line of Metropolitan avenue; thence westerly

along the southerly line of Metropolitan avenue, 20 feet, more or less; thence southerly along a line parallel with and 20 feet westerly from the westerly line of Roebeling street, 226 feet, more or less, to its intersection with the northerly line of Fillmore place; thence easterly along the northerly line of Fillmore place, 20 feet, more or less, to the point of beginning.

Parcel 7.

Lot No. 17, Block 2353, section 8, volume 3, Kings County L. Map.

Beginning at a point formed by the intersection of the westerly line of Roebeling street, with the northerly line of Metropolitan avenue; thence along the westerly line of Roebeling street, 26 feet 11 1/4 inches to its intersection with the southerly line of North Fourth street; thence westerly along the southerly line of North Fourth street, 125 feet; thence southwesterly and at right angles to the southerly line of North Fourth street, 53 feet 4 inches; thence southerly, 17 feet 8 inches, to a point in the northerly line of Metropolitan avenue, distant 126 feet from the intersection of the northerly line of Metropolitan avenue with the westerly line of Roebeling street; thence easterly along the northerly line of Metropolitan avenue, 126 feet, to the point of beginning.

Parcel 8.

Beginning at a point formed by the intersection of the westerly line of Roebeling street with the northerly line of North Fourth street; thence northerly along the westerly line of Roebeling street, 200 feet, to its intersection with the southerly line of North Fifth street; thence westerly along the southerly line of North Fifth street, 20 feet; thence southerly along a line parallel with Roebeling street, 200 feet, to its intersection with the northerly line of North Fifth street; thence easterly along the northerly line of North Fourth street; thence easterly along the northerly line of North Fourth street to the point of beginning.

Parcel 9.

Beginning at a point formed by the intersection of the westerly line of Roebeling street with the northerly line of North Fifth street; thence northerly along the westerly line of Roebeling street, 200 feet, to its intersection with the southerly line of North Sixth street; thence westerly along the southerly line of North Sixth street, 20 feet; thence southerly along a line parallel with Roebeling street, 200 feet, to its intersection with the northerly line of North Sixth street; thence easterly along the northerly line of North Fifth street, to the point of beginning.

Parcel 10.

Beginning at a point formed by the intersection of the westerly line of Roebeling street with the northerly line of North Sixth street; thence northerly along the westerly line of Roebeling street 200 feet to its intersection with the southerly line of North Seventh street; thence westerly along the southerly line of North Seventh street 20 feet; thence southerly along a line parallel with Roebeling street 200 feet to its intersection with the northerly line of North Sixth street; thence easterly along the northerly line of North Sixth street 20 feet to the point of beginning.

Parcel 11.

Beginning at a point formed by the intersection of the westerly line of Roebeling street with the northerly line of North Seventh street; thence northerly along the westerly line of Roebeling street 200 feet to its intersection with the southerly line of North Eighth street; thence westerly along the southerly line of North Eighth street 20 feet; thence southerly along a line parallel with Roebeling street 200 feet to its intersection with the northerly line of North Seventh street; thence easterly along the northerly line of North Seventh street 20 feet to the point of beginning.

Parcel 12.

Beginning at a point formed by the intersection of the westerly line of Roebeling street with the northerly line of North Eighth street; thence northerly along the westerly line of Roebeling street 200 feet to its intersection with the southerly line of North Ninth street; thence westerly along the southerly line of North Ninth street 20 feet; thence southerly along a line parallel with Roebeling street 200 feet to its intersection with the northerly line of North Eighth street; thence easterly along the northerly line of North Eighth street 20 feet to the point of beginning.

Parcel 13.

Beginning at a point formed by the intersection of the westerly line of Roebeling street with the northerly line of North Ninth street; thence northerly along the westerly line of Roebeling street 200 feet to its intersection with the southerly line of North Tenth street; thence westerly along the southerly line of North Tenth street 20 feet; thence southerly along a line parallel with Roebeling street 200 feet to its intersection with the northerly line of North Ninth street; thence easterly along the northerly line of North Ninth street 20 feet to the point of beginning.

Parcel 14.

Beginning at a point formed by the intersection of the westerly line of Roebeling street with the northerly line of North Tenth street; thence northerly along the westerly line of Roebeling street, 200 feet to its intersection with the southerly line of North Eleventh street; thence westerly along the southerly line of North Eleventh street, 20 feet; thence southerly along a line parallel with Roebeling street, 200 feet, to its intersection with the northerly line of North Tenth street; thence easterly along the northerly line of North Tenth street, 20 feet to the point of beginning.

Parcel 15.

Beginning at a point formed by the intersection of the westerly line of Roebeling street with the northerly line of North Eleventh street; thence northerly along the westerly line of Roebeling street, 106 feet 9/4 inches to its intersection with the westerly line of Union avenue; thence northerly along the westerly line of Union avenue, 27 feet 7/4 inches more or less; thence southerly along a line parallel with and 20 feet westerly from the westerly line of Roebeling street, 125 feet 10 1/4 inches to its intersection with the northerly line of North Eleventh street; thence easterly along the northerly line of North Eleventh street, 20 feet to the point of beginning.

Resolved, That the President of the Borough of Brooklyn cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares, or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the "City Record" and the corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.

Attest: JOHN H. MOONEY, Assistant Secretary.
s18,30

NOTICE IS HEREBY GIVEN THAT THE

Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the grades of West One Hundred and Seventieth street, from Fort Washington avenue to Haven avenue, and of Haven avenue, from West One Hundred and Seventieth street to West One Hundred and Seventy-first street, in the Borough of Manhattan, City of New York, and that a meeting of said Board will be held in the old Council Chamber (Room 16) City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions adopted by the Board of Estimate and Apportionment on the 28th day of July, 1903, notice of the adoption of which is hereby given, viz:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the grades of West One Hundred and Seventieth street, from Fort Washington avenue to Haven avenue, and of Haven avenue, from West One Hundred and Seventieth street to West One Hundred and Seventy-first street, in the Borough of Manhattan, City of New York, more particularly described as follows:

West One Hundred and Seventieth Street.

Beginning at a point in the westerly line of Fort Washington avenue and the centre line of West One Hundred and Seventieth street—elevation 173 feet above City datum. Thence, westerly along the centre line of West One Hundred and Seventieth street to the centre line of Haven avenue—elevation 167.50 feet.

Haven Avenue.

Beginning at a point the intersection of the centre line of West One Hundred and Seventieth street and Haven avenue—elevation 167.50 feet; thence, northerly along the centre line of Haven avenue to the centre line of West One Hundred and Seventy-first street—elevation 180 feet.

All elevations above City Datum.

The alteration of grade to be found in section 8, Block 2139 of the Land Map of the Borough of Manhattan, City of New York.

Resolved, That the President of the Borough of Manhattan cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares, or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the "City Record" for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.
Attest: JOHN H. MOONEY, Assistant Secretary.
s18,30

NOTICE IS HEREBY GIVEN THAT THE

Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to close East One Hundred and Fifty-sixth street and East One Hundred and Fifty-eighth street, between Sheridan avenue and Morris avenue, in the Borough of The Bronx, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions adopted by the Board of Estimate and Apportionment on the 28th day of July, 1903, notice of the adoption of which is hereby given, viz:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by closing East One Hundred and Fifty-sixth street and East One Hundred and Fifty-eighth street, between Sheridan avenue and Morris avenue, in the Borough of The Bronx, City of New York.

Resolved, That the President of the Borough of The Bronx cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares, or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the "City Record" for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.
Attest: JOHN H. MOONEY, Assistant Secretary.
s18,30

NOTICE IS HEREBY GIVEN THAT THE

Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the grade of DeBevoise avenue, from Hoyt avenue to Woolsey avenue, First Ward, in the Borough of Queens, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions adopted by the Board of Estimate and Apportionment on the 28th day of July, 1903, notice of the adoption of which is hereby given, viz:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York

by changing the grade of DeBevoise avenue, from Hoyt avenue to Woolsey avenue, First Ward, in the Borough of Queens, City of New York, more particularly described as follows:

Beginning at the intersection of DeBevoise avenue and Hoyt avenue, the elevation to be 33.60 feet, as heretofore; thence northerly 450 feet, the elevation to be 35.40 feet; thence northerly to the intersection of Woolsey avenue, the elevation to be 42.00 feet, as heretofore.

Resolved, That the President of the Borough of Queens cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares, or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the "City Record" for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.
Attest: JOHN H. MOONEY, Assistant Secretary.
s18,30

NOTICE IS HEREBY GIVEN THAT THE

Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to lay out the block bounded by East One Hundred and Eightieth street, Bronx street, East One Hundred and Eighty-first street and Boston road, as an addition to Bronx Park in the Borough of The Bronx, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions adopted by the Board on the 28th day of July, 1903, notice of the adoption of which is hereby given, viz:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by laying out the block bounded by East One Hundred and Eightieth street, Bronx street, East One Hundred and Eighty-first street and Boston road as an addition to Bronx Park, in the Borough of The Bronx, City of New York.

Resolved, That the President of the Borough of The Bronx cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares, or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the "City Record" for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.
Attest: JOHN H. MOONEY, Assistant Secretary.
s18,30

NOTICE IS HEREBY GIVEN THAT THE

Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to lay out as a public park the block bounded by Monroe, Market, Hamilton and Catharine streets, in the Borough of Manhattan, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions adopted by the Board of Estimate and Apportionment on the 28th day of July, 1903, notice of the adoption of which is hereby given, viz:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by laying out as a public park the block bounded by Monroe, Market, Hamilton and Catharine streets, in the Borough of Manhattan, City of New York.

Resolved, That the President of the Borough of Manhattan cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares, or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the "City Record" for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.
Attest: JOHN H. MOONEY, Assistant Secretary.
s18,30

NOTICE IS HEREBY GIVEN THAT THE

Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the lines of the public place at the intersection of Tremont and Westchester avenues, in the Borough of The Bronx, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is

more particularly set forth and described in the following resolutions adopted by the Board of Estimate and Apportionment on the 18th day of August, 1903, notice of the adoption of which is hereby given, viz:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the lines of the public place at the intersection of Tremont and Westchester avenues, in the Borough of The Bronx, City of New York, more particularly described as follows:

Th amendment consists mainly in reducing the area of the rectangular public place at the intersection of Tremont avenue and Westchester avenue, which has a length of about 792 feet and a width of 519.5 to a circular public place of 450 feet diameter.

In addition to the reduction of the public place, the 100-foot avenues, which were laid out around the rectangular public place, are to be discontinued, and the old existing road between Tremont avenue and McGraw avenue is to be re-established.

Resolved, That the President of the Borough of The Bronx cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares, or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the "City Record" for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.
Attest: JOHN H. MOONEY, Assistant Secretary.
s18,30

NOTICE IS HEREBY GIVEN THAT THE

Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to alter the map or plan of The City of New York so as to change the grades in Broadway, between Spuyten Duyvil Creek and the northern boundary of the City of New York, Twenty-fourth Ward, in the Borough of The Bronx, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions adopted by the Board on the 2d day of September, 1903, notice of the adoption of which is hereby given, viz:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the grades in Broadway, between Spuyten Duyvil Creek and the northern boundary of the City of New York, Twenty-fourth Ward, in the Borough of The Bronx, City of New York, more particularly described as follows:

1. The grade of the bridge across the Spuyten Duyvil Creek to be 15.7 feet above mean high water datum, as built;

2. Thence northerly to the northeast curb intersection of West Two Hundred and Thirtieth street, the grade to be 14.0 feet above mean high water datum, as heretofore;

3. Thence northerly to the northeast curb intersection of West Two Hundred and Thirty-first street, the grade to be 16.0 feet above mean high water datum;

4. Thence northerly to the intersection with West Two Hundred and Thirty-third street, the grade to be 12.5 feet above mean high water datum;

5. Thence northerly to the intersection with West Two Hundred and Thirty-fourth street, the grade to be 14.5 feet above mean high water datum, as heretofore;

6. Thence northerly to a point distant 345 feet from the northwest curb intersection of West Two Hundred and Thirty-fourth street, the grade to be 12.5 feet above mean high water datum;

7. Thence northerly to the intersection with West Two Hundred and Thirty-sixth street, the grade to be 14.5 feet above mean high water datum, as heretofore;

8. Thence northerly to the southwest curb intersection of Corlear avenue, the grade to be 27.0 feet above mean high water datum (the grades between West Two Hundred and Thirty-sixth street and West Two Hundred and Forty-second street, not changed.);

9. Thence northerly to a point distant 900 feet from the southwest curb intersection of Corlear avenue, the grade to be 38.0 feet above mean high water datum;

10. Thence northerly to a point distant 715 feet southerly from the southwest curb intersection of West Two Hundred and Fifty-second street, the grade to be 30.0 feet above mean high water datum, as heretofore;

11. Thence northerly to a point distant 300 feet from the previous grade, the grade to be 32.0 feet above mean high water datum, as heretofore;

12. Thence northerly to a point distant 400 feet from the southwest curb intersection of West Two Hundred and Fifty-second street, the grade to be 45.0 feet above mean high water datum;

13. Thence northerly to the intersection with West Two Hundred and Fifty-third street, the grade to be 40.0 feet above mean high water datum;

14. Thence northerly to the intersection with West Two Hundred and Fifty-fourth street, the grade to be 33.0 feet above mean high water datum;

15. Thence northerly to the intersection with West Two Hundred and Fifty-sixth street, the grade to be 39.0 feet above mean high water datum;

16. Thence northerly to the southwest curb intersection of Moshulu avenue, the grade to be 42.0 feet above mean high water datum, as heretofore;

17. Thence northerly to the intersection with West Two Hundred and Fifty-ninth street, the grade to be 45.0 feet above mean high water datum;

18. Thence northerly to the intersection with West Two Hundred and Sixtieth street, the grade to be 48.0 feet above mean high water datum;

19. The grades between West Two Hundred and Sixty-first street and the northern boundary of The City of New York are not changed.

20. West Two Hundred and Thirtieth street, west of Broadway, 150 feet westerly from a point of reversed curve, the grade to be 10.5 feet above mean high water datum.

21. Southwest curb intersection of Corlear avenue and West Two Hundred and Forty-sixth street, the grade to be 33.0 feet above mean high water datum;

22. Thence northerly to the northeast curb intersection of West Two Hundred and Forty-sixth street, the grade to be 36.0 feet above mean high water datum.

Resolved, That the President of the Borough of The Bronx cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares, or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the "City Record" for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.
Attest: JOHN H. MOONEY, Assistant Secretary.
s18,30

NOTICE IS HEREBY GIVEN THAT THE

Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the grades of avenues and streets affected by the change of line and depression of tracks of the Port Morris Branch of the New York and Harlem Railroad, between East One Hundred and Fifty-sixth street and the East river, Twenty-third Ward, in the Borough of The Bronx, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions adopted by the Board of Estimate and Apportionment on the 2d day of September, 1903, notice of the adoption of which is hereby given, viz:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the grades of avenues and streets affected by the change of line and depression of tracks of the Port Morris Branch of the New York and Harlem Railroad, between East One Hundred and Fifty-sixth street and the East river, Twenty-third Ward, in the Borough of The Bronx, City of New York, more particularly described as follows:

A.—St. Ann's Avenue.

1. The grade at the intersection of St. Ann's avenue with the new line of the Port Morris Branch Railroad to be 26.75 feet above mean high water datum, as heretofore.

2. The grade at the intersection of East One Hundred and Forty-ninth street to be 25 feet above mean high water datum.

3. The grade at the intersection of East One Hundred and Forty-eighth street to be 16.7 feet above mean high water datum, as heretofore.

B.—East One Hundred and Forty-ninth Street.

1. The grade at the intersection of St. Ann's avenue to be 25.0 feet above mean high water datum.

2. The grade at the intersection with the new line of the Port Morris Branch Railroad to be 26.5 feet above mean high water datum.

3. The grade at the intersection of Eagle avenue to be 27.25 feet above mean high water datum.

C.—Concord Avenue.

1. The grade at the intersection of East One Hundred and Forty-second street to be 33.5 feet above mean high water datum, as heretofore.

2. The grade at the intersection of St. Mary's street and the Port Morris Branch Railroad to be 31.5 feet above mean high water datum.

3. The grade at the intersection of St. Joseph's street to be 30.0 feet above mean high water datum as heretofore.

D.—Wales Avenue.

1. The grade at the intersection of East One Hundred and Forty-second street to be 31.5 feet above mean high water datum, as heretofore.

2. Thence the grade to be uniform to the intersection of St. Mary's street, the elevation of which is 28.0 feet above mean high water datum, as heretofore.

E.—Southern Boulevard.

1. The grade at the northwestern curb intersection of East One Hundred and Forty-fourth street to be 20.0 feet above mean high water datum, as heretofore.

2. The grade at the intersection of East One Hundred and Forty-second street to be 25.0 feet above mean high water datum.

3. The grade at the intersection of the Port Morris Branch Railroad to be 25.0 feet above mean high water datum.

4. The grade at the intersection of St. Mary's street to be 21 feet above mean high water datum, as heretofore.

F.—Whitlock Avenue.

1. The grade at the intersection of the Port Morris Branch Railroad to be 25.0 feet above mean high water datum.

2. Thence the grade to be uniform to the intersection of St. Joseph's street, the elevation of which is 20.0 feet above mean high water datum, as heretofore.

Resolved, That the President of the Borough of The Bronx cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares, or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the "City Record" for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.
Attest: JOHN H. MOONEY, Assistant Secretary.
s18,30

NOTICE IS HEREBY GIVEN THAT THE

Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to widen Fifty-ninth street 20 feet on the north side, between Second avenue and Fifth avenue, and between the Circle at Eighth avenue and Columbus avenue, in the Borough of Manhattan, City of New York, and that a meeting of said Board will be held in the Old Council Chamber (Room 16),

City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m., at which said proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions adopted by the Board on the 16th day of September, 1903, notice of the adoption of which is hereby given, viz:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by widening Fifty-ninth street 20 feet on the north side, between Second avenue and Fifth avenue, and between the Circle at Eighth avenue and Columbus avenue, in the Borough of Manhattan, City of New York.

Resolved, That the President of the Borough of Manhattan, cause to be prepared for submission to this Board three similar maps or plans for certification and filing in the manner required by law, showing as nearly as possible the nature and extent of the proposed change and the location of the immediate adjacent or of intersecting open or established streets, roads, squares, or places, sufficient for the identification and location thereof.

Resolved, That this Board consider the proposed change at a meeting of this Board, to be held in the Old Council Chamber (Room 16), City Hall, Borough of Manhattan, City of New York, on the 30th day of September, 1903, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the "City Record" for ten days continuously, Sundays and legal holidays excepted, prior to the 30th day of September, 1903.

J. W. STEVENSON, Secretary.
Attest: JOHN H. MOONEY, Assistant Secretary.
\$18.30

DEPARTMENT OF PUBLIC CHARITIES.

DEPARTMENT OF PUBLIC CHARITIES, FOOT OF EAST TWENTY-SIXTH STREET, NEW YORK.

TO CONTRACTORS.

PROPOSALS FOR BIDS OR ESTIMATES.
SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities at the above office until 12 o'clock m., on

MONDAY, OCTOBER 5, 1903.

Boroughs of Brooklyn and Queens.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR THE ERECTION AND COMPLETION OF A STORE-HOUSE AND REFRIGERATING PLANT FOR THE KINGS COUNTY HOSPITAL, BOROUGH OF BROOKLYN.

The time allowed for the completion of the work and full performance of the contract is one hundred and twenty-five (125) consecutive working days.

The security required will be sixteen thousand dollars (\$16,000).

The bidder will state one aggregate price for the whole work described and specified, as the contract is entire and for a complete job.

Blank forms and further information may be obtained at the office of Louis H. Voss, architect, No. 65 De Kalb avenue, Borough of Brooklyn, The City of New York, where plans and specifications may be seen.

HOMER FOLKS, Commissioner.
Dated September 18, 1903. \$19.05

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF PUBLIC CHARITIES, FOOT OF EAST TWENTY-SIXTH STREET, NEW YORK.

TO CONTRACTORS.

PROPOSALS FOR BIDS OR ESTIMATES.
SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities at the above office until 12 o'clock m., on

MONDAY, OCTOBER 5, 1903.

Boroughs of Brooklyn and Queens.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR THE ERECTION AND COMPLETION OF A STABLE BUILDING FOR THE KINGS COUNTY HOSPITAL, BOROUGH OF BROOKLYN.

The time allowed for the completion of the work and full performance of the contract is ninety (90) consecutive working days.

The security required will be ten thousand dollars (\$10,000).

The bidder will state one aggregate price for the whole work described and specified, as the contract is entire and for a complete job.

Blank forms and further information may be obtained at the office of William A. Strout, architect, No. 31 Nassau street, The City of New York, where plans and specifications may be seen.

HOMER FOLKS, Commissioner.
Dated September 18, 1903. \$19.05

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF PUBLIC CHARITIES, FOOT OF EAST TWENTY-SIXTH STREET, NEW YORK.

TO CONTRACTORS.

PROPOSALS FOR BIDS OR ESTIMATES.
SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities at the above office until 12 o'clock m., on

MONDAY, SEPTEMBER 28, 1903.

Boroughs of Brooklyn and Queens.
FOR FURNISHING AND DELIVERING HOSPITAL SUPPLIES.

The time for the performance of the contract is during the year 1903.

The amount of security required is fifty (50) per cent. of the amount of the bid or estimate. The bidder will state the price per pound, dozen, gallon, yard, etc., by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total and awards made to the lowest bidder on each line or item, as stated in the specifications.

Blank forms and further information may be obtained at the office of the General Drug Department, Bellevue Hospital Grounds, East Twenty-sixth street, Borough of Manhattan.

HOMER FOLKS, Commissioner.
The City of New York, September 16, 1903. \$17.28

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF PUBLIC CHARITIES, FOOT OF EAST TWENTY-SIXTH STREET, NEW YORK.

TO CONTRACTORS.

PROPOSALS FOR BIDS OR ESTIMATES.
SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities at the above office until 12 o'clock m., on

THURSDAY, SEPTEMBER 24, 1903.

Borough of Manhattan.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR BUILDING A SEWAGE PURIFICATION SYSTEM FOR THE NEW YORK CITY FARM COLONY, BOROUGH OF RICHMOND.

The time allowed for the completion of the work and full performance of the contract is forty (40) consecutive working days.

The security required will be one thousand dollars (\$1,000).

The bidder will state one aggregate price for the whole work described and specified, as the contract is entire and for a complete job.

Blank forms and further information may be obtained at the office of Renwick, Aspinwall & Owen, Architects, No. 367 Fifth avenue, The City of New York, where plans and specifications may be seen.

HOMER FOLKS, Commissioner.
Dated September 12, 1903. \$14.24

See General Instructions to Bidders on the last page, last column, of the "City Record."

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 Supplies at the above office of the Department of Education until 3 o'clock p. m., on

FRIDAY, OCTOBER 2, 1903.

Borough of Manhattan.
FOR FURNISHING AND DELIVERING LANTERNS, ETC., FOR THE BUREAU OF LECTURES OF THE CITY OF NEW YORK.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before December 31, 1903.

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 the article contained in the specifications or schedules herein contained or hereto annexed.

The bids will be compared and the contract awarded at a lump or aggregate sum to the lowest bidder.

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 Superintendent of School Supplies, Board of Education, the Borough of Manhattan, southwest corner Park avenue and Fifty-ninth street.

PARKER P. SIMMONS, Superintendent of School Supplies.
Dated September 22, 1903. \$22.02

See General Instructions to Bidders on the last page, last column, of the "City Record."

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 11 o'clock a. m., on

MONDAY, SEPTEMBER 28, 1903.

Borough of Manhattan.
No. 3. FOR REPLACING PARTITIONS, ETC., AT THE RECREATION PIER, EAST RIVER, AT THE FOOT OF THIRD STREET, USED AS AN ANNEX TO PUBLIC SCHOOL 15, BOROUGH OF MANHATTAN.

Estimates are to be submitted for completion in twenty-four working days, the work being carried on in the ordinary manner, and for completion in twelve days, the contractor to employ double shifts of men and to work day and night.

The amount of security required is—

Item 1, \$2,500.

Item 4, \$200.

No. 4. FOR FORMING NEW CLASS-ROOMS AT PUBLIC SCHOOL 40, SITUATED AT NO. 316 EAST TWENTIETH STREET, BOROUGH OF MANHATTAN.

The time of completion is thirty working days.

The amount of security required is \$450.

No. 5. FOR REPAIRS, ALTERATIONS AND ADDITIONS TO THE ELECTRIC LIGHT WIRING AND FIXTURES IN PUBLIC SCHOOL 59, NO. 228 EAST FIFTY-SEVENTH STREET, BOROUGH OF MANHATTAN.

The time of completion is fifteen working days.

The amount of security required is \$500.

On Contracts Nos. 1, 4 and 5 the bids will be compared and the contracts awarded at a lump sum for each contract.

On Contracts Nos. 2 and 3 the bidders must state the price of each or any item or article contained in the specifications or schedules herein contained or hereto annexed, by which the bids will be tested.

The extensions must be made and footed up, as the bids will be read from the total of each item for each school and awards made to the lowest bidder on each item for each school.

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 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, for work of their respective boroughs.

C. B. J. SNYDER, Superintendent of School Buildings.
September 17, 1903. \$17.28

See General Instructions to Bidders on the last page, last column, of the "City Record."

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 11 o'clock a. m., on

MONDAY, SEPTEMBER 28, 1903.

Borough of Brooklyn.
No. 1. FOR ADDITIONAL WORK AT PUBLIC SCHOOL 138, ON PROSPECT PLACE, 200 FEET WEST OF NOSTRAND AVENUE, BOROUGH OF BROOKLYN.

The time of completion is twenty-five working days.

The amount of security required is \$1,200.

No. 2. FOR FURNITURE FOR ADDITION TO PUBLIC SCHOOL 84, ON GLENMORE AVENUE, BETWEEN STONE AND WATKINS AVENUES, BOROUGH OF BROOKLYN.

The time of completion is sixty working days.

The amount of security required is—

Item 1, \$400.

Item 2, \$900.

On Contract No. 1 the bids will be compared and the contract awarded at a lump sum.

On Contract No. 2 the bidders must state the price of each or any item or article contained in

the specifications or schedules herein contained or hereto annexed, by which the bids will be tested.

The extensions must be made and footed up, as the bids will be read from the total of each item and award 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 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.
New York, September 16, 1903. \$17.28

See General Instructions to Bidders on the last page, last column, of the "City Record."

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 11 o'clock a. m., on

WEDNESDAY, SEPTEMBER 23, 1903.

Borough of Brooklyn.

No. 1. INSTALLING HEATING AND VENTILATING APPARATUS IN NEW PUBLIC SCHOOL 143, ON THE WESTERLY SIDE OF HAVEMEYER STREET, BETWEEN NORTH SIXTH AND NORTH SEVENTH STREETS, BOROUGH OF BROOKLYN.

The time of completion is seventy working days.

The amount of security required is \$16,000.

No. 2. INSTALLING ELECTRIC LIGHT WIRING, FIXTURES AND ELECTRIC BELL SYSTEM OF ADDITION TO AND ALTERATIONS IN PUBLIC SCHOOL 84, SOUTH SIDE OF GLENMORE, BETWEEN STONE AND WATKINS AVENUES, BOROUGH OF BROOKLYN.

The time of completion is sixty working days.

The amount of security required is \$2,000.

No. 3. INSTALLING A PIPE ORGAN IN GIRLS' HIGH SCHOOL, NOSTRAND AVENUE, CORNER HALSEY STREET, BOROUGH OF BROOKLYN.

The time of completion is one hundred and forty working days.

The amount of security required is \$2,000.

Borough of The Bronx.
No. 4. GENERAL CONSTRUCTION OF NEW PUBLIC SCHOOL 37, ON ONE HUNDRED AND FORTY-FIFTH AND ONE HUNDRED AND FORTY-SIXTH STREETS, ABOUT 75 FEET EAST OF WILLIS AVENUE, BOROUGH OF THE BRONX.

The time of completion is three hundred and ninety working days.

The amount of security required is \$150,000.

Borough of Manhattan.

No. 5. GENERAL CONSTRUCTION OF NEW PUBLIC SCHOOL 150, ON NINETY-FIFTH AND NINETY-SIXTH STREETS, 175 FEET WEST OF FIRST AVENUE, BOROUGH OF MANHATTAN.

The time of completion is three hundred and ninety working days.

The amount of security required is \$150,000.

No. 6. GENERAL CONSTRUCTION OF ADDITION TO AND ALTERATIONS IN THE TRUANT SCHOOL, ON THE NORTH SIDE OF TWENTY-FIRST STREET, ABOUT 260 FEET EAST OF THIRD AVENUE, BOROUGH OF MANHATTAN.

The time allowed to complete the whole work will be as follows: That alterations and repairs, including northerly addition to present building, shall be completed by April 1, 1904. The addition and the entire balance of the work shall be completed by May 1, 1904.

The amount of security required is \$25,000.

No. 7. FOR ERECTING CLOSETS IN VARIOUS SCHOOLS IN THE BOROUGH OF MANHATTAN.

The time of completion is thirty working days.

The amount of security required is \$450.

No. 8. FOR GAS FITTING AT NEW PUBLIC SCHOOL 106, ON MOTT AND ELIZABETH STREETS, BETWEEN SPRING AND PRINCE STREETS, BOROUGH OF MANHATTAN.

The time of completion is thirty working days.

The amount of security required is \$800.

The bids will be compared and the contract awarded at a lump sum for each contract.

Blank forms 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.
September 12, 1903. \$12.23

See General Instructions to Bidders on the last page, last column, of the "City Record."

BOROUGH OF MANHATTAN.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF MANHATTAN, CITY HALL, THE CITY OF NEW YORK, September 17, 1903.

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, SEPTEMBER 29, 1903.

Borough of Manhattan.
FOR THE ERECTION AND COMPLETION OF A PUBLIC COMFORT STATION AT ONE HUNDRED AND TWENTY-FIFTH STREET AND PARK AVENUE, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

The time for the completion of the contract is 125 working days.

The amount of security is \$10,000.

The bidder shall state one aggregate price for the whole work described and specified, as the contract is entire and for a complete job.

Blank forms may be obtained and the plans and drawings may be seen at the office of the architects, Messrs. Renwick, Aspinwall & Owen, No. 367 Fifth avenue, Borough of Manhattan.

JACOB A. CANTOR, Borough President.
The City of New York, September 17, 1903. \$17.29

See General Instructions to Bidders on the last page, last column, of the "City Record."

BOARD OF TRUSTEES OF BELLEVUE AND ALLIED HOSPITALS.

BELLEVUE AND ALLIED HOSPITALS DEPARTMENT OF NEW YORK CITY, TWENTY-SIXTH STREET AND FIRST AVENUE, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of Board of Trustees at the above office until 3.30 o'clock p. m., on

MONDAY, SEPTEMBER 28, 1903.

FOR EXPANDED STEEL METAL LOCKERS, RUGS, GLASS AND LUMBER.

The time for the delivery of the articles is as required, and the full performance of the contract is by or before December 31, 1903.

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 article contained in the specification or schedule herein contained or hereto annexed, per pound, gram, dozen, yard or other unit of measure, by which the bids will be tested. The extension must be made, as the bids will be read from the total for each item, and award made to the lowest bidder.

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 at the office of the Board, Bellevue Hospital, East Twenty-sixth street, Borough of Manhattan.

JOHN W. BRANNAN, President of the Board of Trustees, Bellevue and Allied Hospitals.
Dated September 14, 1903. \$15.28

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF CORRECTION.

DEPARTMENT OF CORRECTION, No. 148 EAST TWENTIETH 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

THURSDAY, SEPTEMBER 24, 1903.

Borough of Manhattan.

FOR FURNISHING AND DELIVERING WHITE LEAD, PAINTS, OIL, SOLDER, ETC.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before ten (10) days.

The amount of security required is fifty per cent. (50%) 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 and the plans and drawings may be seen at the office of the Department of Correction, the Borough of Manhattan, No. 148 East Twentieth street.

THOMAS W. HYNES, Commissioner.
Dated September 9, 1903. \$11.24

See General Instructions to Bidders on the last page, last column, of the "City Record."

BOROUGH OF THE BRONX.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF THE BRONX, MUNICIPAL BUILDING, CORNER THIRD AVENUE AND ONE HUNDRED AND SEVENTY-SEVENTH STREET, CROTONA PARK, NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of The Bronx at the above office until 11 o'clock a. m., on

FRIDAY, OCTOBER 2, 1903.

Borough of The Bronx.
No. 1. REGULATING AND GRADING, SETTING CURBSTONES, FLAGGING THE SIDEWALKS, LAYING CROSSWALKS, BUILDING APPROACHES AND PLACING FENCES IN LYMAN PLACE, FROM STEBBINS AVENUE AND ONE HUNDRED AND SIXTY-NINTH STREET TO FREEMAN STREET.

The Engineer's estimate of the work is as follows, viz:

1,400 cubic yards of excavation of all kinds.

125 cubic yards of filling.

1,050 linear feet of new curbstone, furnished and set.

3,900 square feet of new flagging, furnished and laid.

The amount of security required is one thousand dollars (\$1,000).

The time allowed to complete the whole work is forty (40) working days.

No. 2. REGULATING AND GRADING, SETTING CURBSTONES, FLAGGING THE SIDEWALKS, LAYING CROSSWALKS, BUILDING APPROACHES AND PLACING FENCES IN SUBURBAN PLACE, FROM BOSTON ROAD TO CROTONA PARK EAST.

The Engineer's estimate of the work is as follows, viz:

2,500 cubic yards of earth excavation.

1,500 cubic yards of rock excavation.

the best interests of The City of New York so to do.

The auctioneer's fees, twenty-five dollars (\$25), must be paid by the purchaser at the time of sale.

Dated New York, July 17, 1903.

McDOUGALL HAWKES, Commissioner of Docks.

OFFICE OF THE DEPARTMENT OF DOCKS AND FERRIES, PIER "A," FOOT OF BATTERY PLACE, NORTH RIVER, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Docks at the above office until 12 o'clock m., on

TUESDAY, SEPTEMBER 29, 1903.

Borough of Richmond.

Contract No. 809.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR BUILDING A WOODEN PIER, WITH APPURTENANCES, AT ROSSVILLE, STATEN ISLAND.

The time for the completion of the work and the full performance of the contract is on or before the expiration of thirty calendar days.

The amount of security required is \$4,500. The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Work will be required to be done 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 said Department.

McDOUGALL HAWKES, Commissioner of Docks.

Dated September 17, 1903.

See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF DOCKS AND FERRIES, PIER "A," FOOT OF BATTERY PLACE, NORTH RIVER, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Docks at the above office until 12 o'clock m., on

TUESDAY, SEPTEMBER 29, 1903.

Borough of Manhattan.

Contract No. 811.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR FURNISHING AND DELIVERING REDUCED PHOTO-LITHOGRAPHIC COPIES OF THE STANDARD MAPS OF THE DEPARTMENT OF DOCKS AND FERRIES.

The time for the completion of the work and the full performance of the contract is on or before the expiration of thirty calendar days.

The amount of security required is \$2,500. The 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 and the plans and drawings may be seen at the office of the said Department.

McDOUGALL HAWKES, Commissioner of Docks.

Dated September 17, 1903.

See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF DOCKS AND FERRIES, PIER "A," FOOT OF BATTERY PLACE, NORTH RIVER, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Docks at the above office until 12 o'clock m., on

WEDNESDAY, SEPTEMBER 23, 1903.

Boroughs of Manhattan, Brooklyn, Queens and the Bronx.

Contract No. 768.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR DREDGING ON THE EAST AND HARLEM RIVERS.

The time for the completion of the work and the full performance of the contract is on or before the expiration of July 31, 1904.

The amount of security required is \$15,000. The bids will be compared and the contract awarded at a lump or aggregate sum.

Dredging will be required to be done 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 said Department.

McDOUGALL HAWKES, Commissioner of Docks.

Dated September 10, 1903.

See General Instructions to Bidders on the last page, last column, of the "City Record."

BOARD MEETINGS.

The Board of Estimate and Apportionment meet in the old Council Chamber (Room 16), City Hall, every Wednesday, during July and August, at 10.30 o'clock a. m.

JAMES W. STEVENSON, Deputy Comptroller, Secretary.

The Commissioners of the Sinking Fund meet in the old Council Chamber (Room 16), City Hall, every Wednesday at 2 o'clock p. m., or at call of the Mayor.

N. TAYLOR PHILLIPS, Deputy Comptroller, Secretary.

OFFICIAL BOROUGH PAPERS.

BOROUGH OF THE BRONX.
"North Side News," "Bronx Borough Record," "Westchester Globe."

BOROUGH OF RICHMOND.
"Staten Islander," "Staten Island World," "Staten Island News and Independent," "Staten Island Gazette."

BOROUGH OF QUEENS.
"Long Island Daily Star," "Flushing Daily Times," "Flushing Evening Journal," "Newtown Register," "Jamaica Standard," "Rockaway News," "Long Island Farmer."

BOROUGH OF BROOKLYN.
"Brooklyn Eagle," "Brooklyn Times," "Brooklyn Citizen," "Brooklyn Standard Union," "Brooklyn Free Press," "Brooklyn Weekly News," "Flatbush Weekly News."

BOROUGH OF MANHATTAN.
"Harlem Local Reporter" (Harlem District), "Harlem Local and Life" (Washington Heights and Harlem Districts).

Amended designation by Board of City Record July 31, 1903, and August 10, 1903.

BOROUGH OF BROOKLYN.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM NO. 15, MUNICIPAL BUILDING, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President at the above office until 11 o'clock a. m., on

WEDNESDAY, OCTOBER 7, 1903.

Borough of Brooklyn.

No. 1. FOR REGULATING, GRADING AND PAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF LENOX ROAD FROM ROGERS AVENUE TO NOSTRAND AVENUE.

The Engineer's estimate of the quantities is as follows:
2,920 square yards of asphalt pavement.
430 cubic yards of concrete.
990 cubic yards of earth excavation.
430 cubic yards of earth filling (not to be bid for).

1,530 linear feet of concrete curb.
The time allowed 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.

No. 2. FOR REGULATING, GRADING AND PAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF RAILROAD AVENUE, FROM JAMAICA AVENUE TO GLENMORE AVENUE.

The Engineer's estimate of the quantities is as follows:
16,124 square yards of asphalt pavement.
2,741 cubic yards of concrete.
9,030 linear feet of new curbstone.
10,093 cubic yards of earth excavation.
8,523 cubic yards of earth filling (not to be bid for).

Time for the completion of the work and the full performance of the contract is seventy-five (75) working days.

The amount of security required is \$18,000.

No. 3. FOR REGULATING AND GRADING FIFTY-FIRST STREET, FROM FIRST AVENUE TO NEW YORK BAY.

The Engineer's estimate of the quantities is as follows:
15,476 cubic yards of earth excavation.
427 cubic yards of earth filling (not to be bid for).

Time for the completion of the work and the full performance of the contract is sixty-five (65) working days.

The amount of security required is \$2,500.

No. 4. FOR REGULATING, GRADING, CURBING, GUTTERING FIFTY-FIRST STREET, FROM SIXTH AVENUE TO EIGHTH AVENUE.

The Engineer's estimate of the quantities is as follows:
986 square yards of brick gutters, including concrete foundation.
2,945 linear feet of new curbstone, including concrete foundation.

845 cubic yards of earth excavation.
722 cubic yards of earth filling (furnished).
254 cubic yards of concrete foundation (not to be bid for).

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. 5. FOR REGULATING AND REPAVING WITH GRANITE PAVEMENT, ON A CONCRETE FOUNDATION THE ROADWAY OF BEAVER STREET, FROM FLUSHING AVENUE TO BELVIDERE STREET.

The Engineer's estimate of the quantities is as follows:
3,330 square yards of second-hand granite block pavement, with tar and gravel joints, the City to furnish blocks on street.
40 square yards of old stone pavement, to be relaid.

680 cubic yards of concrete.
1,790 linear feet of new curbstone.
300 linear feet of old bluestone curb, to be reset.

210 square feet of new granite bridge stone.
140 square feet of old bridge stone, to be relaid.

Time for the completion of the work and the full performance of the contract is forty (40) working days.

The amount of security required is \$3,000.

The bidder will state the price of each item 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.

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 No. 15, Municipal Building.

J. EDWARD SWANSTROM, President.

Dated September 19, 1903.

See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM NO. 15, MUNICIPAL 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, OCTOBER 7, 1903.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWER BASINS AT THE NORTHWEST AND NORTHEAST CORNERS OF REEVE PLACE AND SHERMAN AVENUE.

The Engineer's estimate of the quantities is as follows:
2 sewer basins.
The time allowed for the completion of the work and the full performance of the contract is 15 working days.

The amount of security required is \$200.

No. 2. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR CONSTRUCTING A SEWER IN POWELL STREET, FROM PITKIN AVENUE TO SUTTER AVENUE, IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:
890 linear feet 12-inch vitrified stoneware pipe sewer, laid in concrete.
10 manholes.

5,200 feet, B. M., foundation planing.
The time allowed for the completion of the work and the full performance of the contract is 25 working days.

The amount of security required is \$1,500.

No. 3. FOR CONSTRUCTING A SEWER IN DE KALB AVENUE, FROM WYCKOFF AVENUE, WESTERLY, ABOUT 275 FEET TO EXISTING SEWER, IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:
273 linear feet 12-inch vitrified stoneware pipe sewer, laid in concrete.
2 manholes.

1,600 feet, B. M., foundation planing.

The time allowed for the completion of the work and full performance of the contract is ten working days.

The amount of security required is \$500.

No. 4. FOR CONSTRUCTING SEWER IN FIFTY-SECOND STREET, FROM SIXTH AVENUE TO SEVENTH AVENUE, IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:
45 linear feet 15-inch vitrified stoneware pipe sewer, laid in concrete.
700 linear feet 12-inch vitrified stoneware pipe sewer, laid in concrete.
8 manholes.

4,500 feet, B. M., foundation planing.
The time allowed for the completion of the work and full performance of the contract is thirty working days.

The amount of security required is \$1,000.

No. 5. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWER BASINS AT THE NORTHWEST AND SOUTHWEST CORNERS OF LINCOLN AVENUE AND FULTON STREET; NORTHEAST, NORTHWEST AND SOUTHWEST CORNERS GRANT AVENUE AND FULTON STREET; NORTHWEST AND SOUTHWEST CORNERS ELDERLY LANE AND FULTON STREET, IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:
7 sewer basins.

The time allowed for the completion of the work and full performance of the contract is 20 working days.

The amount of security required is \$500.

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, feet B. M., cubic yard or other unit of measure, by which the bids will be tested. 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 Assistant Commissioner of Public Works, Room 15, Municipal Building, Borough of Brooklyn.

J. EDWARD SWANSTROM, President.

Dated September 17, 1903.

See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM NO. 15, MUNICIPAL 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, SEPTEMBER 30, 1903.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING A SEWER IN STARR STREET, FROM IRVING AVENUE TO KNICKERBOCKER AVENUE.

The Engineer's estimate of the quantities is as follows:
45 linear feet 15-inch vitrified stoneware pipe sewer, laid in concrete.
710 linear feet 12-inch vitrified stoneware pipe sewer, laid in concrete.
7 manholes.

3 receiving basins.
4,500 feet (B. M.) foundation planing.
The time allowed for the completion of the work and full performance of the contract is thirty working days.

The amount of security required is \$1,500.

No. 2. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING A SEWER IN SIXTY-FIFTH STREET, FROM FOURTH AVENUE TO FIRST AVENUE, AND OUTLET SEWERS IN FIRST AVENUE, BETWEEN SIXTY-FOURTH STREET AND SIXTY-FIFTH STREET, ETC.

The Engineer's estimate of the quantities is as follows:
218 linear feet 42-inch brick sewers.
586 linear feet 15-inch vitrified stoneware pipe sewer, laid in concrete.
2,060 linear feet 12-inch vitrified stoneware pipe sewer, laid in concrete.

29 manholes.
7 receiving basins.
17,000 feet (B. M.) foundation planing.
5 cubic yards brick masonry.
5 cubic yards concrete.

The time allowed for the completion of the work and full performance of the contract is fifty working days.

The amount of security required is \$6,000.

No. 3. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING A SEWER IN PUTNAM AVENUE, FROM KNICKERBOCKER AVENUE TO BOROUGH LINE OF QUEENS, ETC.

The Engineer's estimate of the quantities is as follows:
1,215 linear feet 36-inch brick sewer.
260 linear feet 30-inch brick sewer.
100 linear feet 15-inch vitrified stoneware pipe sewer, laid in concrete.

1,175 linear feet 12-inch vitrified stoneware pipe sewer, laid in concrete.
26 manholes.
3 receiving basins.

15,500 feet (B. M.) foundation planing.
5 cubic yards brick masonry.
5 cubic yards concrete.

The time allowed for the completion of the work and full performance of the contract is sixty working days.

The amount of security required is \$6,000.

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, feet B. M., cubic yard, or other unit of measure, by which the bids will be tested. 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 Assistant Commissioner of Public Works, the Borough of Brooklyn, Room No. 15, Municipal Building, Borough of Brooklyn.

J. EDWARD SWANSTROM, President.

Dated September 16, 1903.

See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM NO. 15, MUNICIPAL 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, SEPTEMBER 30, 1903.

FOR FURNISHING AND DELIVERING 440 TONS BEST GRADE WHITE ASH ANTHRACITE COAL (2,240 POUNDS TO A TON), FOR USE IN THE VARIOUS INTERIOR PUBLIC BATHS AND PUBLIC COMFORT STATIONS.

400 gross tons egg coal.

40 gross tons stove size.
The time for the delivery of the articles, materials and supplies and the performance of the contract is on or before December 31, 1903.

The amount of security is \$1,200.

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 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 Assistant Commissioner of Public Works, the Borough of Brooklyn, Room No. 15, Municipal Building, Borough of Brooklyn.

J. EDWARD SWANSTROM, President.

Dated September 12, 1903.

See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM NO. 15, MUNICIPAL 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, SEPTEMBER 30, 1903.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWER BASINS AT THE NORTH AND SOUTH SIDES OF LINDEN AVENUE, 220 FEET FROM FLATBUSH AVENUE, IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:
2 sewer basins.

The time allowed for the completion of the work and full performance of the contract is ten (10) working days.

The amount of security required is \$200.

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 Assistant Commissioner of Public Works, the Borough of Brooklyn, Room No. 15, Municipal Building, Borough of Brooklyn.

J. EDWARD SWANSTROM, President.

Dated September 14, 1903.

See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM NO. 15, MUNICIPAL 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, SEPTEMBER 30, 1903.

Borough of Brooklyn.

No. 1. FOR REGULATING, GRADING AND PAVING WITH ASPHALT PAVEMENT, ON A CONCRETE FOUNDATION, THE ROADWAY OF OVERTON AVENUE BETWEEN THIRD AVENUE AND FIFTH AVENUE, EXCEPTING THAT PORTION LYING BETWEEN A POINT 200 FEET EAST OF THE EASTERLY CURB LINE OF FOURTH AVENUE AND A POINT 200 FEET WEST OF THE WESTERLY CURB LINE OF FIFTH AVENUE, THE SAID PORTION TO BE PAVED WITH ASPHALT BLOCK PAVEMENT, AND TO SET OR RESET CEMENT CURB, AND FLAG OR REFLAG OR PAVE SIDEWALKS OF SAID STREET WITH CEMENT, WHERE NOT ALREADY DONE.

The Engineer's estimate of the quantities is as follows:
3,870 square yards of asphalt pavement.
1,200 square yards of asphalt block pavement.
710 cubic yards of concrete.

2,430 cubic yards of earth excavation.
1,840 cubic yards of earth filling, not to be bid for.

3,020 linear feet of concrete curb.
3,040 square feet of cement sidewalks.

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 \$6,000.

No. 2. FOR REGULATING, GRADING AND PAVING WITH ASPHALT PAVEMENT, ON A CONCRETE FOUNDATION, THE ROADWAY OF VANDERBILT STREET, FROM PROSPECT AVENUE TO CONEY ISLAND AVENUE.

The Engineer's estimate of the quantities is as follows:
2,918 square yards of asphalt pavement.
409 cubic yards of concrete.
1,169 cubic yards of earth excavation.
146 cubic yards of earth filling, not to be bid for.

1,660 linear feet of concrete curb.
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.

No. 3. FOR REGULATING, GRADING AND PAVING WITH ASPHALT PAVEMENT, ON A CONCRETE FOUNDATION, THE ROADWAY OF SHERIDAN AVENUE, FROM GLENMORE AVENUE TO ATLANTIC AVENUE.

The Engineer's estimate of the quantities is as follows:
5,216 square yards of asphalt pavement.
926 cubic yards of concrete.
3,625 linear feet of new curbstone.
4,289 cubic yards of earth excavation.
568 cubic yards of earth filling, not to be bid for.

2,700 square feet of old flagstone, to be relaid and retimbered.

15,280 square feet of cement sidewalks.

Time for the completion of the work and the full performance of the contract is forty (40) working days.

The amount of security required is \$7,000.

No. 4. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON SEVENTY-THIRD STREET, FROM TENTH AVENUE TO FORT HAMILTON AVENUE.

The Engineer's estimate of the quantities is as follows:

3,495 square yards of asphalt pavement.
490 cubic yards of concrete.
250 cubic yards of earth excavation.
6,900 cubic yards of earth filling (furnished).
4,940 linear feet of concrete curb.
407 square feet of old flagstones retrimmed and relaid.
20,000 square feet of cement sidewalks.
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 \$7,000.

No. 6. FOR REGULATING AND PAVING WITH MACADAM PAVEMENT THE ROADWAY OF FLATBUSH AVENUE, FROM THE BOUNDARY LINE OF THE TWENTY-NINTH AND THIRTY-SECOND WARDS TO AVENUE N.

The Engineer's estimate of the quantities is as follows:
45,070 square yards of macadam pavement.
5,090 square yards of brick gutter pavement, not to be bid for.

Time for the completion of the work and full performance of the contract is ninety (90) working days.
The amount of security required is \$15,000.

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. 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 No. 15, Municipal Building, Borough of Brooklyn.

J. EDWARD SWANSTROM, President.
Dated September 14, 1903. 817,30

See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM NO. 15, MUNICIPAL 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, SEPTEMBER 23, 1903.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING A SEWER IN NINETEENTH STREET, FROM FOURTH AVENUE TO FIFTH AVENUE, IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:
400 linear feet 12-inch vitrified stoneware pipe sewer, laid in concrete.
4 manholes.

2,300 feet, B. M., foundation planking.
The time allowed for the completion of the work and full performance of the contract is twenty working days.
The amount of security required is \$700.

No. 2. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING A SEWER IN EAST FOURTEENTH STREET, FROM BEVERLY ROAD TO AVENUE C, ETC., IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:

270 linear feet 30-inch brick sewer.
30 linear feet 18-inch vitrified stoneware pipe sewer, laid in concrete.
420 linear feet 15-inch vitrified stoneware pipe sewer, laid in concrete.
740 linear feet 12-inch vitrified stoneware pipe sewer, laid in concrete.

13 manholes.
8,500 feet, B. M., foundation planking.
5 cubic yards brick masonry.
5 cubic yards concrete.

The time allowed for the completion of the work and full performance of the contract is forty working days.
The amount of security required is \$2,000.

No. 3. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR SEWER IN NOSTRAND AVENUE, FROM FLATBUSH AVENUE TO AVENUE G (GLENWOOD ROAD), BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:

420 linear feet 12-inch vitrified stoneware pipe sewer, laid in concrete.
4 manholes.

2,500 feet, B. M., foundation planking.

The time allowed for the completion of the work and full performance of the contract is twenty working days.
The amount of security required is \$900.

No. 4. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWER BASINS AT THE NORTHEAST CORNER OF LENOX ROAD AND ROGERS AVENUE AND NORTHWEST CORNER OF LENOX ROAD AND NOSTRAND AVENUE, IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:

2 sewer basins.

The time allowed for the completion of the work and full performance of the contract is fifteen working days.

The amount of security required is \$150.

No. 5. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWER BASINS AT THE NORTHWEST AND SOUTHWEST CORNERS OF WEBSTER AVENUE AND CONEY ISLAND AVENUE, BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:

2 sewer basins.

The time allowed for the completion of the work and full performance of the contract is fifteen working days.

The amount of security required is \$150.

No. 6. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWER BASINS AT THE NORTHEAST AND NORTHWEST CORNERS OF SHERMAN STREET AND VANDERBILT STREET, IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:

2 sewer basins.

The time allowed for the completion of the work and full performance of the contract is ten working days.

The amount of security required is \$180.

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, feet B. M., cubic yard or other unit of measure, by which the bids will be tested. 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 Assistant Commissioner of Public Works, Room No. 15, Municipal Building, Borough of Brooklyn.

J. EDWARD SWANSTROM, President.
Dated September 8, 1903. 810,23

See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM NO. 15, MUNICIPAL 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, SEPTEMBER 23, 1903.

FOR FURNISHING AND DELIVERING SUPPLIES TO THE BUREAU OF PUBLIC BUILDINGS AND OFFICES FOR USE AT THE INTERIOR PUBLIC BATHS AND PUBLIC COMFORT STATIONS, BOROUGH OF BROOKLYN.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before December 31, 1903.

The amount of security required is \$4,500.

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. The 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 and the plans and drawings may be seen at the office of the Assistant Commissioner of Public Works, Borough of Brooklyn, Room No. 15, Municipal Building, Borough of Brooklyn.

J. EDWARD SWANSTROM, President.
Dated September 8, 1903. 810,23

See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM NO. 15, MUNICIPAL 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, SEPTEMBER 23, 1903.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWER IN FIFTH AVENUE, FROM ATLANTIC AVENUE TO DEAN STREET, ETC., IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:

1,435 linear feet 78-inch brick sewer, "Section A."

795 linear feet 78-inch I beam covered sewer, "Section B."

1,615 linear feet 72-inch brick sewer.

90 linear feet 48-inch cast-iron pipe sewer, laid in concrete.

80 linear feet 42-inch brick sewer.

40 linear feet 30-inch brick sewer.

50 linear feet 24-inch vitrified stoneware pipe sewer, laid in concrete.

250 linear feet 18-inch vitrified stoneware pipe sewer, laid in concrete.

110 linear feet 16-inch cast-iron pipe sewer.

310 linear feet 15-inch vitrified stoneware pipe sewer, laid in concrete.

790 linear feet 12-inch vitrified stoneware pipe sewer, laid in concrete.

41 manholes.

4 receiving basins.

3 receiving basins, reconnected.

75,000 feet (B. M.) foundation planking and pile capping.

700,000 feet (B. M.) sheeting and bracing, in and about silt and trap basin.

91 cubic yards brick masonry.

440 cubic yards concrete masonry, including corrugated steel, etc.

65 linear feet bluestone, 16 inches wide by 6 inches thick.

20 tons (2,000 pounds) steel I beams, including tie rods.

143 tons (2,000 pounds) cast-iron, in pipes, columns and beam saddles.

38,000 feet (B. M.) permanent sheet piling.

20,000 feet (B. M.) temporary sheet piling in coffer dam.

2,250 linear feet bearing piles.

1,640 cubic yards excavation, including refilling, removal of old masonry, etc.

200 cubic yards stone filling.

94 linear feet granite coping, 36 inches wide by 18 inches thick.

The time allowed for the completion of the work and full performance of the contract is ninety (90) working days.

The amount of security required is \$40,000.

No. 2. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWER ON WEST SIDE OF FOURTH AVENUE, FROM BUTLER STREET TO DEGRAU STREET, ETC., IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:

1,570 linear feet 90-inch brick sewer, "Section A."

438 linear feet 90-inch I beam covered sewer, "Section B."

40 linear feet 18-inch vitrified stoneware pipe sewer, laid in concrete.

11 manholes.

1 receiving basin.

200,000 feet (B. M.) foundation planking and pile capping.

375,000 feet (B. M.) sheeting and bracing, in and about silt and trap basin.

2,000 cubic yards excavation, including refilling, removal of crib work, etc.

830 cubic yards concrete masonry, including corrugated steel rods, expanded metal, etc.

16 tons (2,000 pounds) steel I beams, including tie rods.

79 tons (2,000 pounds) cast-iron, in pipes and columns.

60,000 feet (B. M.) permanent sheet piling.

7,400 feet (B. M.) temporary sheet piling, in coffer dam.

1,000 linear feet bearing piles.

60 cubic yards stone filling.

39 linear feet granite coping, 36 inches wide by 18 inches thick.

The time allowed for the completion of the work and full performance of the contract is ninety (90) working days.

The amount of security required is \$40,000.

No. 3. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING A SEWER BASIN AT THE SOUTHWEST CORNER OF TOMPKINS AVENUE AND HOPKINS STREET, IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate of the quantities is as follows:

One (1) sewer basin.

The time allowed for the completion of the work and full performance of the contract is ten (10) working days.

The amount of security required is \$100.

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, feet B. M., cubic yard, or other unit of measure, by which the bids will be tested.

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 and the plans and drawings may be seen at the office of the Assistant Commissioner of Public Works, Room No. 15, Municipal Building, Borough of Brooklyn.

seen at the office of the Assistant Commissioner of Public Works, Room 15, Municipal Building, Borough of Brooklyn.

J. EDWARD SWANSTROM, President.
Dated August 21, 1903. a28-823

See General Instructions to Bidders on the last page, last column, of the "City Record."

MUNICIPAL CIVIL SERVICE COMMISSION.

MUNICIPAL CIVIL SERVICE COMMISSION, 61 ELM STREET, CITY OF NEW YORK.

PUBLIC NOTICE WILL BE GIVEN OF ALL competitive examinations two weeks in advance of the date upon which the receipt of applications for any scheduled examination will close. Applications will be received for only such examinations as are scheduled.

When an examination is advertised, a person desiring to compete in the same may obtain an application blank upon request made in writing, or by personal application at the office of the Commission.

All notices of examinations will be posted in the office of the Commission, City Hall, Municipal Building, Brooklyn, and advertised in the "City Record" for two weeks in advance of the date upon which the receipt of applications will close for any stated position.

Public notice will also be given by advertisement in most of the City papers.

Wherever an examination is of a technical character, due notice is given by advertisement in the technical journals appertaining to the particular profession for which the examination is called.

Such notices will be sent to the daily papers as matters of news, and to the General Postoffice and stations thereof. The scope of the examination will be stated, but for more general information application should be made at the office of the Commission.

Unless otherwise specifically stated the minimum age requirement for all positions is 21.

S. WILLIAM BRISCOE, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 61 ELM STREET, NEW YORK, September 14, 1903.

PUBLIC NOTICE IS HEREBY GIVEN that an open competitive examination will be held for the following position:

INSPECTOR OF PLUMBING, LIGHT AND VENTILATION—Wednesday, October 21, 1903, at 10 a. m. (Fourth Grade, \$1,200 per annum.)

The receipt of applications for this examination will close on Friday, October 9, at 4 p. m.

The scope of the examination will be as follows:

Subjects.	Weights.
Technical knowledge	5
Experience	2
Mathematics	1
Report	2

Candidates will be required to obtain 75 per cent. on the technical paper in order to be placed on the eligible list.

Persons securing a place on the eligible list as a result of this examination will be certified for appointment to the Bureau of Buildings in all boroughs.

The minimum age is 21.

ASSISTANT COURT CLERK (CRIMINAL)—

Wednesday, October 28, 1903, at 10 a. m. (\$2,000 per annum.)

The receipt of applications for this examination will close on Friday, October 16, at 4 p. m.

The scope of the examination will be as follows:

Subjects.	Wghts.
Special Paper	2
Clerical	8

The special paper will have a weight of two tenths of the examination and the clerical paper will have a weight of eight tenths.

Candidates will be required to obtain at least 75 per cent. on the special paper and 80 per cent. on the clerical.

The minimum age is 21.

ATTENDANT (PLAYGROUND)—Friday, October 2, 1903, at 10 a. m. (Open to women only.)

The receipt of applications for this examination will close on Tuesday, September 29, 1903, at 4 p. m.

The scope of the examination will be as follows:

Subjects.	Weights.
Special Paper	6
Experience	3
Arithmetic	1

The special paper will include the duties of the position.

Applicants for this position must have a knowledge of kindergarten methods and be qualified to lead in outdoor games.

In order to obtain a place upon the eligible list candidates will be required to pass a physical examination and to obtain seventy per cent. in the mental examination.

Vacancies exist in the Department of Parks.

The minimum age is 21 years.

S. WILLIAM BRISCOE, Secretary.

PUBLIC NOTICE IS HEREBY GIVEN that the receipt of applications for the position of FIREMAN, in the Fire Department, will commence on Tuesday, September 15, 1903, at 9 a. m., and will continue until further notice.

S. WILLIAM BRISCOE, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 61 ELM STREET, CITY OF NEW YORK, July 23, 1903.

PUBLIC NOTICE IS HEREBY GIVEN that open competitive examinations will be held for the following positions:

MONITOR, CIVIL SERVICE COMMISSION—Thursday, October 15, 1903, at 10 a. m. (Open to men and women.)

The receipt of applications for this examination will close on Friday, September 25, at 4 p. m.

Monitors will be employed from time to time, as the needs of the service require. No regular employment will result from securing a place on the eligible list, but it is probable that there will be need of the services of a large or small number of Monitors once or twice a week.

The compensation will be \$5 a day when actually employed. Ordinarily the session lasts from about 9 a. m. to about 4 p. m.

The duties of Monitors are to assist in the conduct of civil service examinations; to supervise the candidates while they are at work; to see that they are promptly supplied with such stationery, question sheets, etc., as they need; to collect and properly sort and fasten the candidates' answers and otherwise help in securing a proper and orderly conduct of examinations. To accomplish this, Monitors must be of good physical condition, alert and watchful. All candidates will therefore be required to pass a physical examination.

The mental examination will consist of one paper, on which 70 per cent. is required.

The minimum age is 21.
For applications apply to the Secretary.
For further information as to duties, etc., apply to the Chief Examiner.
S. WILLIAM BRISCOE, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, LABOR BUREAU, NEW CRIMINAL COURT BUILDING, CORNER WHITE AND CENTRE STREETS.

APPLICATIONS WILL BE RECEIVED FOR the position of Rustic Carpenter, for appointment in the Department of Parks, Borough of Manhattan, at \$4.50 per day while employed. Only experienced workmen need apply.

F. A. SPENCER, Labor Clerk.

MUNICIPAL CIVIL SERVICE COMMISSION, CITY OF NEW YORK, May 21, 1903.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications for the following positions will be received until further notice:

Trained Nurse.

Nurse.

S. WILLIAM BRISCOE, Secretary.

SUPREME COURT.

FIRST JUDICIAL DISTRICT.

In the matter of acquiring title by The City of New York to certain lands and premises situated on the southerly side of SPRING STREET, between Hudson and Varick streets, in the Borough of Manhattan, in The City of New York, duly selected as a site for an engine house for the Fire Department of The City of New York according to law.

NOTICE IS HEREBY GIVEN THAT EDWARD H. DALY, Louis M. Sonnenberg and William H. Ricketts, appointed Commissioners of Estimate and Appraisal herein by an order dated September 17, 1903, and filed in the office of the Clerk of the County of Kings, will appear before the Justice of the Supreme Court sitting at Special Term, Part II., at the County Courthouse in the Borough of Manhattan, on the 2d day of October, 1903, at 11 a. m., to be examined by the Corporation Counsel, or by any person having an interest in the lands proposed to be taken, as to their qualifications to act as Commissioners of Estimate and Appraisal.

Dated New York, September 19, 1903.
GEORGE L. RIVES, Corporation Counsel,
No. 2 Tryon Row, Borough of Manhattan, New York City. 822,02

In the matter of acquiring title by The City of New York to certain lands and premises situated on the westerly side of ALLEN STREET, one hundred sixteen feet eight inches south of Rivington street, in the Borough of Manhattan, in The City of New York, duly selected as a site for a public bath according to law.

NOTICE IS HEREBY GIVEN THAT August H. Stebbins, Charles L. Barlow and Adam Wiener, appointed Commissioners of Estimate and Appraisal herein by an order dated September 17, 1903, and filed in the office of the Clerk of the County of Kings, will appear before the Justice of the Supreme Court sitting at Special Term, Part II., at the County Courthouse in the Borough of Manhattan, on the 2d day of October, 1903, at 11 a. m., to be examined by the Corporation Counsel, or by any person having an interest in the lands proposed to be taken, as to their qualifications to act as Commissioners of Estimate and Appraisal.

Dated New York, September 19, 1903.
GEORGE L. RIVES, Corporation Counsel,
No. 2 Tryon Row, Borough of Manhattan, New York City. 822,02

FIRST DEPARTMENT.

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.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses incurred by reason of the proceedings in

or to be assessed therefor, and of performing the trusts and duties required of us by chapter 17, title 4 of the Greater New York Charter, as amended, and the acts or parts of acts supplementary thereto or amendatory thereof.

All parties and persons interested in the real estate taken or to be taken for the purpose of opening the said street or avenue, or affected thereby, and having any claim or demand on account thereof, are hereby required to present the same, duly verified, to us, the undersigned Commissioners of Estimate and Assessment, at our office, fourteenth floor, Nos. 90 and 92 West Broadway, Borough of Manhattan, in The City of New York, with such affidavits or other proofs as the said owners or claimants may desire, within twenty days after the date of this notice.

And we, the said Commissioners, will be in attendance at our said office on the 17th day of October, 1903, at 11 o'clock in the forenoon of that day, to hear the said parties and persons in relation thereto. And at such time and place, and at such further or other time and place as we may appoint, we will hear such owners in relation thereto and examine the proofs of such claimant or claimants, or such additional proofs and allegations as may then be offered by such owner, or on behalf of The City of New York.

Dated Borough of Manhattan, New York City, September 21, 1903.

SIDNEY F. RAWSON,
WILLIAM A. SHORT,
AUGUSTUS ACKER,
Commissioners.

JOHN P. DUNN, Clerk.

FIRST DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to EAST ONE HUNDRED AND FIFTY-SEVENTH STREET, from Brook avenue to German place, including the triangular space lying northeasterly thereof, and EAST ONE HUNDRED AND FIFTY-SEVENTH STREET (although not yet named by proper authority), from German place to St. Ann's avenue, in the Twenty-third Ward, Borough of The Bronx, in The City of New York.

NOTICE IS HEREBY GIVEN THAT THE supplemental and additional bill of costs, charges and expenses 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 of the State of New York, First Department, at a Special Term thereof, Part I, to be held at the County Courthouse in the Borough of Manhattan, in The City of New York, on the 2d day of October, 1903, at 10.30 o'clock in forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said supplemental and additional bill of costs, charges and expenses 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 999 of the Greater New York Charter, as amended by chapter 466 of the Laws of 1901.

Dated Borough of Manhattan, New York, September 19, 1903.

PHINEAS LEWINSON,
W. H. BICKELHAUPT,
PETER J. STUMPF,
Commissioners.

JOHN P. DUNN, Clerk.

FIRST DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to FINDLAY AVENUE (although not yet named by proper authority), from East One Hundred and Sixty-fourth street to East One Hundred and Seventy-fourth street, in the Twenty-third Ward, Borough of The Bronx, City of New York.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses 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 of the State of New York, First Department, at a Special Term thereof, Part I, to be held at the County Courthouse in the Borough of Manhattan, in The City of New York, on the 2d day of October, 1903, at 10.30 o'clock in forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses 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 999 of the Greater New York Charter, as amended by chapter 466 of the Laws of 1901.

Dated Borough of Manhattan, New York, September 19, 1903.

DAVID THOMSON,
SAML. SANDERS,
CHAS. V. HALLEY,
Commissioners.

JOHN P. DUNN, Clerk.

FIRST DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to the lands and premises required for the opening and extending of NORTHERN AVENUE (although not yet named by proper authority), from West One Hundred and Eighty-first street to points 784.3 feet and 756.23 feet northerly therefrom, in the Twelfth Ward, Borough of Manhattan, City of New York.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses 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 of the State of New York, First Department, at a Special Term thereof, Part I, to be held at the County Courthouse in the Borough of Manhattan, in The City of New York, on the 2d day of October, 1903, at 10.30 o'clock in forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses 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 999 of the Greater New York Charter, as amended by chapter 466 of the Laws of 1901.

Dated Borough of Manhattan, New York, September 19, 1903.

ALFRED R. CONKLING,
MAURICE DEICHES,
HARTWELL A. WILKINS,
Commissioners.

JOHN P. DUNN, Clerk.

FIRST DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to WEST TWO HUNDRED AND TWELFTH STREET (although not yet named by proper authority), from Kingsbridge road to Harlem river, in the Twelfth Ward, Borough of Manhattan, City of New York.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses 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 of the State of New York, First Department, at a Special Term thereof, Part I, to be held at the County Court-

house in the Borough of Manhattan, in The City of New York, on the 2d day of October, 1903, at 10.30 o'clock in forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses 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 999 of the Greater New York Charter, as amended by chapter 466 of the Laws of 1901.

Dated Borough of Manhattan, New York, September 19, 1903.

HAROLD NATHAN,
PETER H. GARLAND,
JOHN J. RYAN,
Commissioners.

JOHN P. DUNN, Clerk.

FIRST JUDICIAL DISTRICT.

In the matter of acquiring title by The City of New York to certain lands and premises situated on the southerly side of NINETY-SIXTH STREET, between Park and Lexington avenues, in the Borough of Manhattan, in The City of New York, duly selected as a site for a public library according to law.

NOTICE IS HEREBY GIVEN THAT IT IS the intention of the Corporation Counsel of The City of New York to make application to the Supreme Court, at a Special Term, Part I, to be held at the County Courthouse in the Borough of Manhattan, in The City of New York, on the 30th day of September, 1903, at the calling of the calendar on that date, for the appointment of three Commissioners of Estimate and Appraisal to ascertain and appraise the compensation to be made to the owners or persons interested in certain lands and premises duly selected as a site for a public library in the Borough of Manhattan, bounded and described as follows:

Beginning at a point on the southerly side of Ninety-sixth street one hundred and ninety (190) feet east from the southeast corner of Park avenue and Ninety-sixth street; running thence southerly and parallel with Park avenue one hundred (100) feet and eight and one-half (8½) inches to the centre line of the block; running thence easterly along the centre line of the block fifty (50) feet; running thence northerly and again parallel with Park avenue one hundred (100) feet eight and one-half (8½) inches to the southerly side of Ninety-sixth street, and running thence westerly along the southerly side of Ninety-sixth street fifty (50) feet to the point or place of beginning.

Dated New York, September 6, 1903.

GEORGE L. RIVES, Corporation Counsel.

SECOND DEPARTMENT.

In the matter of the application of The City of New York relative to acquiring title, wherever the same has not been heretofore acquired, to GRACE CHURCH PLACE (although not yet named by proper authority), from Simonson place westerly about 130 feet, in the Third Ward, Borough of Richmond, City of New York.

NOTICE IS HEREBY GIVEN THAT WE, the undersigned, were appointed by an order of the Supreme Court, bearing date the 29th day of July, 1903, and duly entered in the office of the Clerk of the County of Richmond, in The City of New York, on the 31st day of July, 1903. Commissioners of Estimate and Assessment for the purpose of making a just and equitable estimate and assessment of the loss and damage, if any, or of the benefit and advantage, if any, as the case may be, to the respective owners, lessees, parties and persons respectively entitled unto or interested in the lands, tenements, hereditaments and premises required for the purpose by and in consequence of opening the above-mentioned street or avenue, the same being particularly set forth and described in the petition of The City of New York, and also in the notice of the application for the said order thereto attached, filed herein in the office of the Clerk of the County of Richmond on the 31st day of July, 1903, and a just and equitable estimate and assessment of the value of the benefit and advantage of said street or avenue so to be opened or laid out and formed, to the respective owners, lessees, parties and persons respectively entitled to or interested in the said respective lands, tenements, hereditaments and premises not required for the purpose of opening, laying out and forming the same, but benefited thereby, and of ascertaining and defining the extent and boundaries of the respective tracts or parcels of land to be taken or to be assessed therefor, and of performing the trusts and duties required of us by chapter 17, title 4 of the Greater New York Charter, as amended, and the acts or parts of acts supplementary thereto or amendatory thereof.

All parties and persons interested in the real estate taken or to be taken for the purpose of opening the said street or avenue, or affected thereby, and having any claim or demand on account thereof, are hereby required to present the same, duly verified, to us, the undersigned Commissioners of Estimate and Assessment, at our office, fourteenth floor, Nos. 90 and 92 West Broadway, Borough of Manhattan, in The City of New York, with such affidavits or other proofs as the said owners or claimants may desire, within twenty days after the date of this notice.

And we, the said Commissioners, will be in attendance at our said office on the 15th day of October, 1903, at 2 o'clock in the afternoon of that day, to hear the said parties and persons in relation thereto. And at such time and place, and at such further or other time and place as we may appoint, we will hear such owners in relation thereto and examine the proofs of such claimant or claimants, or such additional proofs and allegations as may then be offered by such owner, or on behalf of The City of New York.

Dated Borough of Manhattan, New York City, September 18, 1903.

WM. M. MULLEN,
JOHN S. DAVENPORT,
AUGUSTUS ACKER,
Commissioners.

JOHN P. DUNN, Clerk.

FIRST DEPARTMENT.

In the matter of the application of The City of New York relative to acquiring title, wherever the same has not been heretofore acquired, to the lands, tenements and hereditaments required for the opening and extending of DAWSON STREET (although not yet named by proper authority), from Craven street (East One Hundred and Fifty-sixth street) to Intervale avenue, in the Twenty-third Ward, Borough of The Bronx, City of New York.

NOTICE IS HEREBY GIVEN THAT WE, the undersigned, were appointed by orders of the Supreme Court, bearing date the 14th day of May, 1903, and the 25th day of July, 1903, and duly entered in the office of the Clerk of the County of New York, at his office in the Borough of Manhattan in The City of New York, on the 2d day of June, 1903, and the 28th day of July, 1903, a copy of which order was duly filed in the office of the Register of the County of New York, and indexed in the Index of Conveyances, Book Nos. 2605, 2606, 2607, 2701 and 2702. Commissioners of Estimate and Assessment for the purpose of making a just and equitable estimate and assessment of the loss and damage, if any, or of the benefit and advantage, if any,

as the case may be, to the respective owners, lessees, parties and persons respectively entitled unto or interested in the lands, tenements, hereditaments and premises required for the purpose by and in consequence of opening the above-mentioned street or avenue, the same being particularly set forth and described in the petition of The City of New York, and also in the notice of the application for the said order thereto attached, filed herein in the office of the Clerk of the County of New York on the 2d day of June, 1903; and a just and equitable estimate and assessment of the value of the benefit and advantage of said street or avenue so to be opened or laid out and formed, to the respective owners, lessees, parties and persons respectively entitled to or interested in the said respective lands, tenements, hereditaments and premises not required for the purpose of opening, laying out and forming the same, but benefited thereby, and of ascertaining and defining the extent and boundaries of the respective tracts or parcels of land to be taken or to be assessed therefor, and of performing the trusts and duties required of us by chapter 17, title 4 of the Greater New York Charter, as amended, and the acts or parts of acts supplementary thereto or amendatory thereof.

All parties and persons interested in the real estate taken or to be taken for the purpose of opening the said street or avenue, or affected thereby, and having any claim or demand on account thereof, are hereby required to present the same, duly verified, to us, the undersigned Commissioners of Estimate and Assessment, at our office, fourteenth floor, Nos. 90 and 92 West Broadway, Borough of Manhattan, in The City of New York, with such affidavits or other proofs as the said owners or claimants may desire, within twenty days after the date of this notice.

And we, the said Commissioners, will be in attendance at our said office on the 14th day of October, 1903, at 11 o'clock in the forenoon of that day, to hear the said parties and persons in relation thereto. And at such time and place, and at such further or other time and place as we may appoint, we will hear such owners in relation thereto and examine the proofs of such claimant or claimants, or such additional proofs and allegations as may then be offered by such owner, or on behalf of The City of New York.

Dated Borough of Manhattan, New York City, September 17, 1903.

RICHARD H. MITCHELL,
LOUIS M. EBLING,
EUGENE M. CAMP,
Commissioners.

JOHN P. DUNN, Clerk.

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 EAST THIRTEENTH STREET, from Avenue T to Gravesend Neck road, in the Thirty-first Ward, in the Borough of Brooklyn of The City of New York, as the same has been heretofore laid out.

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 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 lands, tenements and hereditaments and premises affected thereby, and having objection thereto, do present their said objections in writing, duly verified, to us at our office in the office of the Law Department, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, on or before the 9th day of October, 1903, 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 13th day of October, 1903, at 1 o'clock p. m.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit 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 of the Law Department of The City of New York in the Borough of Brooklyn, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, there to remain until the 17th day of October, 1903.

Third—That the limits of our assessment for benefit include all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point on the southerly side of Avenue T, where the same intersects the centre line of the block between East Thirteenth street and East Fourteenth street; running thence southerly and parallel with East Thirteenth street to the northerly side of Gravesend Neck road; running thence westerly along the northerly side of Gravesend Neck road to the centre line of the block between East Thirteenth street and Homecrest avenue; running thence northerly along the centre line of the block between East Thirteenth street and Homecrest avenue, to the southerly side of Avenue T; running thence easterly along the southerly side of Avenue T to the point or place of beginning.

Fourth—That our report herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof for the hearing of motions, to be held in the County Courthouse in the Borough of Brooklyn, in The City of New York, on the 2d day of November, 1903, at the opening of the Court on that day.

Dated Borough of Brooklyn, The City of New York, September 17, 1903.

AMBROSE B. TREMAINE,
L. LAFRANCE,
WILLIAM STONE,
Commissioners.

CHAS. S. TABER, Clerk.

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 AVENUE K, from Ocean avenue to Flatbush avenue, in the Thirty-second Ward, in the Borough of Brooklyn of The City of New York, as the same has been heretofore laid out.

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 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 lands, tenements and hereditaments and premises affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office in the office of the Law Department, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, on or before the 9th day of October, 1903, 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 14th day of October, 1903, at 11 o'clock a. m.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit 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 of the Law Department of The City of New York in the Borough of Brooklyn, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, there to remain until the 17th day of October, 1903.

Third—That the limits of our assessment for benefit include all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point on the easterly side of Ocean avenue where the same intersects the centre line of the block between Avenues J and K; running thence southerly along the easterly side of Ocean avenue to the centre line of the block between Avenue K and Avenue L; running thence easterly and parallel with Avenue K to the westerly side of East Thirty-eighth street; running thence northerly along the westerly side of East Thirty-eighth street to the southwesterly side of Flatbush avenue; running thence along the southwesterly side of Flatbush avenue to the centre line of the block between Avenue J and Avenue K; running thence westerly through the centre lines of the blocks between Avenue J and Avenue K to the point or place of beginning.

Fourth—That our report herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof for the hearing of motions, to be held in the County Courthouse in the Borough of Brooklyn, in The City of New York, on the 2d day of November, 1903, at the opening of the Court on that day.

Dated Borough of Brooklyn, The City of New York, September 17, 1903.

HARRIS WILSON,
Chairman;
HARRY HOWARD DALE,
HENRY JOSEPH,
Commissioners.

CHAS. S. TABER, Clerk.

KINGS COUNTY.

In the matter of the application of the Board of Education, by the Corporation Counsel of The City of New York, relative to acquiring title by The City of New York to certain lands situate on the northeasterly corner of EVERGREEN AVENUE and ELBERT STREET, and also on northwesterly side of COVERT STREET, ninety feet north of Evergreen avenue, in the Twenty-eighth Ward of the Borough of Brooklyn, duly selected and chosen as a site for school purposes by the School Board of the Borough of Brooklyn and approved by the Board of Education under and in pursuance of the provisions of chapter 378 of the Laws of 1897, and the various statutes amendatory thereof and other statutes relating thereto.

WE, THE UNDERSIGNED, COMMISSIONERS of Estimate in the above-entitled matter, appointed pursuant to the provisions of the statutes relating thereto, hereby give notice to the owner or owners, lessee or lessees, parties or persons respectively entitled to or interested in the lands, tenements, hereditaments and premises, title to which is sought to be acquired in this proceeding, and to all others whom it may concern, to wit:

First—That we have completed our estimate of the loss and damage to the respective owners, lessees, parties and persons interested in the lands or premises affected by this proceeding or having any interest therein, and have filed a true report or transcript of such estimate in the office of the Board of Education of The City of New York, at Park avenue and Fifty-ninth street, in the Borough of Manhattan, City of New York, for the inspection of whomsoever it may concern.

Second—That all parties or persons whose rights may be affected by the said estimate and who may object to the same, or any part thereof, may within ten days after the first publication of this notice, September 15, 1903, file their objections to such estimate, in writing, with us at our office, No. 166 Montague street, in the Borough of Brooklyn, in said city, as provided by statute, and that we, the said Commissioners, will hear parties so objecting at our office on the 28th day of September, 1903, at 2 o'clock in the afternoon, and upon such subsequent days as may be found necessary.

Dated the Borough of Brooklyn, City of New York, September 15, 1903.

CHRISTIAN J. BODE,
A. C. DE GRAW,
Commissioners.

GEORGE T. RIGGS, Clerk.

KINGS COUNTY.

In the matter of the application of the Board of Education, by the Corporation Counsel of The City of New York, relative to acquiring title by The City of New York to certain lands situate on the northerly line of DEAN STREET and the southerly line of PACIFIC STREET, between Nevins street and Third avenue, in the Third Ward of the Borough of Brooklyn, duly selected and chosen as a site for school purposes by the School Board of the Borough of Brooklyn and approved by the Board of Education under and in pursuance of the provisions of chapter 378 of the Laws of 1897, and the various statutes amendatory thereof and other statutes relating thereto.

WE, THE UNDERSIGNED, COMMISSIONERS of Estimate in the above-entitled matter, appointed pursuant to the provisions of the statutes relating thereto, hereby give notice to the owner or owners, lessee or lessees, parties or persons respectively entitled to or interested in the lands, tenements, hereditaments and premises, title to which is sought to be acquired in this proceeding, and to all others whom it may concern, to wit:

First—That we have completed our estimate of the loss and damage to the respective owners, lessees, parties and persons interested in the lands or premises affected by this proceeding or having any interest therein, and have filed a true report or transcript of such estimate in the office of the Board of Education of The City of New York, at Park avenue and Fifty-ninth street, in the Borough of Manhattan, City of New York, for the inspection of whomsoever it may concern.

Second—That all parties or persons whose rights may be affected by the said estimate and who may object to the same, or any part thereof, may within ten days after the first publication of this notice, September 15, 1903, file their objections to such estimate, in writing, with us at our office, No. 166 Montague street, in the Borough of Brooklyn, in said city, as provided by statute, and that we, the said Commissioners, will hear parties so objecting at our office on the 28th day of September, 1903, at 4 o'clock in the afternoon, and upon such subsequent days as may be found necessary.

Dated the Borough of Brooklyn, City of New York, September 15, 1903.

THOMAS H. WAGSTAFF,
Chairman;
WILLIAM MURRAY,
JAMES J. KIRWIN,
Commissioners.

GEORGE T. RIGGS, Clerk.

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 ELEVENTH AVENUE, from Fifteenth street to Terrace place, in the Twenty-second and Twenty-ninth Wards, in the Borough of Brooklyn of the City of New York, as the same has been heretofore laid out.

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 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 lands, tenements and hereditaments and premises affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office in the office of the Law Department, No. 166 Montague street, in the Borough of Brooklyn, in the City of New York, on or before the 5th day of October, 1903, 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 8th day of October, 1903, at 11 o'clock a. m.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit 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, in the Borough of Brooklyn, No. 166 Montague street, in the Borough of Brooklyn, in the City of New York, there to remain until the 12th day of October, 1903.

Third—That the limits of our assessment for benefit include all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of Brooklyn, in the City of New York, which, taken together, are bounded and described as follows, viz.: Beginning at a point in the southern line of Fifth street at the centre of the block between Tenth avenue and Eleventh avenue; running thence easterly along the southern line of Fifth street to the centre of the block between Eleventh avenue and Coney Island avenue; thence southerly along the centre line of the block between Eleventh avenue and Coney Island avenue to the southern line of Windsor place; thence southerly to a point in the northern line of Sherman street, in the centre of the block between Eleventh avenue and the Old City line of Brooklyn; thence southerly along the centre line of the block between Eleventh avenue and the Old City line of Brooklyn to the southern line of Prospect avenue; thence southerly along the southern line of Prospect avenue to the western line of Terrace place; thence southerly along the western line of Terrace place to a point distant 70.26 feet southerly of the southern line of Nineteenth street; thence westerly and parallel to Nineteenth street to the centre line of the blocks between Eleventh avenue and Tenth avenue; thence northerly along the centre line of the blocks between Eleventh avenue and Tenth avenue, to the point of beginning.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, Second Department, at a Special Term thereof for the hearing of motions, to be held in the County Courtroom in the Borough of Brooklyn, in the City of New York, on the 29th day of October, 1903, at the opening of the Court on that day.

Dated BOROUGH OF BROOKLYN, THE CITY OF NEW YORK, September 12, 1903.

WALTER T. BENNETT,

Chairman;

JAMES J. DEVERE,

JACOB L. LONG,

Commissioners.

CHAS. S. TABER, Clerk.

\$12.29

FIRST DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to WEST TWO HUNDRED AND SIXTEENTH STREET (although not yet named by proper authority), from Broadway to the Harlem river, in the Twelfth Ward, Borough of Manhattan, in the City of New York.

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 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 lands, tenements and hereditaments and premises affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in the City of New York, on or before the 1st day of October, 1903, 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 5th day of October, 1903, at 2 o'clock p. m.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit 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, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in said city, there to remain until the 12th day of October, 1903.

Third—That the limits of our assessment for benefit include 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 United States bulkhead line of the Harlem river with the southeasterly prolongation of the middle line of the blocks between West Two Hundred and Fifteenth street and West Two Hundred and Sixteenth street; running thence northwesterly along said prolongation and middle line and its northwesterly prolongation to its intersection with a line parallel to and 100 feet northwesterly from the northwesterly line of Kingsbridge road; thence northeasterly along said parallel line to its intersection with the northwesterly prolongation of a line parallel to and 100 feet northwesterly from the northwesterly line of West Two Hundred and Sixteenth street; thence southeasterly along said last-mentioned prolongation and parallel line to its intersection with the United States bulkhead line of the Harlem river; thence southerly along said bulkhead line to the point or place of beginning, excepting from said area all streets, avenues and roads, or portions thereof, heretofore legally opened, as such area is shown upon our benefit maps deposited as aforesaid.

Fourth—That our report herein will be presented for confirmation to the Supreme Court of the State of New York, First Department, at a

Special Term thereof, Part III., to be held in the County Courtroom, in the Borough of Manhattan, in the City of New York, on the 17th day of November, 1903, at the opening of the Court on that day.

Dated BOROUGH OF MANHATTAN, NEW YORK, June 29, 1903.

WAUHOPE LYNN,

Chairman;

JESSE C. BENNETT,

Commissioners.

JOHN P. DUNN, Clerk.

\$11.29

FIRST DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to WEST TWO HUNDRED AND THIRTEENTH STREET (although not yet named by proper authority), from Kingsbridge road to Harlem river, in the Twelfth Ward, Borough of Manhattan, City of New York.

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 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 lands, tenements and hereditaments and premises affected thereby and having objections thereto, do present their said objections in writing, duly verified, to us at our office, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in the City of New York, on or before the 1st day of October, 1903, 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 5th day of October, 1903, at 3 o'clock p. m.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit 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, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in said city, there to remain until the 12th day of October, 1903.

Third—That the limits of our assessment for benefit include 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 northwesterly prolongation of the middle line of the blocks between West Two Hundred and Twelfth street and West Two Hundred and Thirteenth street, with a line parallel to and 200 feet northwesterly from the northwesterly line of Kingsbridge road; running thence northwesterly along said parallel line to its intersection with the northwesterly prolongation of the middle line of the blocks between West Two Hundred and Thirteenth street and West Two Hundred and Fourteenth street; thence southeasterly along said middle line of the blocks and its prolongation to its intersection with the bulkhead line of the Harlem river; thence southwesterly along said bulkhead line to its intersection with the southeasterly prolongation of the middle line of the blocks between West Two Hundred and Twelfth street and West Two Hundred and Thirteenth street; thence northwesterly along said prolongation and middle line and its northwesterly prolongation to the point or place of beginning, excepting from said area all streets, avenues and roads, or portions thereof, heretofore legally opened, as such area is shown upon our benefit maps deposited as aforesaid.

Fourth—That our report herein will be presented for confirmation to the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part III., to be held in the County Courtroom, in the Borough of Manhattan, in the City of New York, on the 17th day of November, 1903, at the opening of the Court on that day.

Dated BOROUGH OF MANHATTAN, NEW YORK, July 17, 1903.

JOSEPH McELROY, JR.,

Chairman;

PETER H. GARLAND,

PATRICK J. CASEY,

Commissioners.

JOHN P. DUNN, Clerk.

\$11.29

SECOND JUDICIAL DEPARTMENT.

In the matter of acquiring title by The City of New York to certain lands and premises on the easterly side of MANOR ROAD, in the Second Ward of the Borough of Richmond, in The City of New York, duly selected as a site for an almshouse according to law.

NOTICE IS HEREBY GIVEN THAT Charles D. Griffiths, Henry A. Guyon and F. A. Braniff, appointed Commissioners of Estimate and Appraisal herein by an order dated September 8, 1903, filed in the office of the Clerk of the County of Richmond, will appear before the Justice of the Supreme Court sitting at Special Term for the hearing of motions, at the County Courtroom in the Borough of Brooklyn, on the 23d day of September, 1903, at 10.15 a. m., to be examined by the Corporation Counsel, or by any person having an interest in the lands proposed to be taken, as to their qualifications to act as Commissioners of Estimate and Appraisal.

Dated NEW YORK, September 9, 1903.

GEORGE L. RIVES, Corporation Counsel,

No. 2 Tryon Row, New York.

\$11.23

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title to NINTH AVENUE, from Thirty-seventh street to Bay Ridge avenue, in the Thirtieth Ward, in the Borough of Brooklyn, The City of New York.

NOTICE IS HEREBY GIVEN THAT WE, the undersigned, were appointed by an order of the Supreme Court made and entered herein on the 11th day of September, 1901, and duly filed in the office of the Clerk of Kings County, a copy of which order was filed in the office of the Register of the County of Kings on the 14th day of September, 1901, and indexed in the Index of Conveyances in Section No. 3, Blocks Nos. 733, 742, 751, 760, 769, 778, 908, 912, 916, 920, 923, 925; Section No. 17, Blocks Nos. 5581, 5582, 5583, 5586, 5590, 5595, 5601, 5607, 5613, 5619, 5625, 5631, 5637, 5638, 5644, 5645, 5651, 5652, 5658, 5659, 5665, 5666, 5672, 5673, 5679, 5680, 5686, 5687, 5693, 5694, 5700, 5701, 5707, 5708, 5714, 5715, 5721, 5722, 5728, 5729, 5735, 5736, 5742, 5743, 5749, 5750, 5756, 5757, 5763, 5764, 5770, 5771. Commissioners of Estimate and Assessment for the purpose of making a just and equitable estimate of the loss or damage, if any, to the respective owners, lessees, parties and persons entitled to or interested in the lands and premises to be taken for the purpose of opening the said street or avenue, as particularly described in the petition of The City of New York, filed with said order in the office of the Clerk of Kings County, and for the purpose of benefit of said street or avenue so to be opened,

to the respective owners, parties and persons respectively entitled to or interested in the lands and premises and not required for the purpose of opening said street or avenue, but benefited thereby, and of ascertaining and defining the district benefited by said assessment, and the extent and boundaries of the respective tracts and parcels of land participating in said benefit, and of performing the trusts and duties required of us by title 4 of chapter 17 of the Charter of The City of New York, and the acts or parts of acts supplementary thereto or amendatory thereof.

All parties and persons interested in the lands and premises taken or to be taken for the purpose of opening said street or avenue, or affected thereby, and having any claim or demand on account thereof, are hereby required to present the same, duly verified, to us, the undersigned Commissioners of Estimate and Assessment, at our office in the Bureau of Street Openings of the Law Department, No. 166 Montague street, Borough of Brooklyn, in the City of New York, with such affidavits or other proofs as the said owner or claimants may desire, within twenty days after date of this notice.

And we, the said Commissioners, will be in attendance at our said office on the 25th day of September, 1903, at 2 o'clock in the afternoon of that day, to hear the said parties and persons in relation thereto; and at such time and place, and at such further or other time and place as we may appoint, we will hear such owners in relation thereto, and examine proofs of such claimant or claimants, or such additional proofs and allegations as may then be offered by such owner or on behalf of The City of New York.

Dated BOROUGH OF BROOKLYN, THE CITY OF NEW YORK, August 31, 1903.

JOSEPH A. GUIDER,

HENRY JOSEPH,

Commissioners.

CHAS. S. TABER, Clerk.

\$31.823

KINGS COUNTY.

In the matter of the application of the Board of Education, by the Corporation Counsel of The City of New York, relative to acquiring title by The City of New York to certain lands situate on the northwest corner of ALBANY AVENUE and BERGEN STREET, in the Twenty-fourth Ward of the Borough of Brooklyn, duly selected and chosen as a site for school purposes by the School Board of the Borough of Brooklyn and approved by the Board of Education under and in pursuance of the provisions of chapter 378 of the Laws of 1897, and the various statutes amendatory thereof and other statutes relating thereto.

WE, THE UNDERSIGNED, COMMISSIONERS of Estimate and Assessment in the above-entitled matter, appointed pursuant to the provisions of the statutes relating thereto, hereby give notice to the owner or owners, lessee or lessees, parties or persons respectively entitled to or interested in the lands, tenements, hereditaments and premises, title to which is sought to be acquired in this proceeding, and to all others whom it may concern, to wit:

First—That we have completed our estimate of the loss and damage to the respective owners, lessees, parties and persons interested in the lands or premises affected by this proceeding or having any interest therein, and have filed a true report or transcript of such estimate in the office of the Board of Education of The City of New York, at Park avenue and Fifty-ninth street, in the Borough of Manhattan, City of New York, for the inspection of whomsoever it may concern.

Second—That all parties or persons whose rights may be affected by the said estimate and who may object to the same, or any part thereof, may within ten days after the first publication of this notice, September 15, 1903, file their objections to such estimate, in writing, with us at our office, No. 166 Montague street, in the Borough of Brooklyn, in said city, as provided by statute, and that we, the said Commissioners, will hear parties so objecting at our office on the 28th day of September, 1903, at 3 o'clock in the afternoon, and upon such subsequent days as may be found necessary.

Dated the BOROUGH OF BROOKLYN, CITY OF NEW YORK, September 15, 1903.

ELMER G. SAMMIS,

PETER P. SMITH,

Commissioners.

GEORGE T. RIGGS, Clerk.

\$12.25

SECOND DEPARTMENT.

In the matter of the application of The City of New York relative to acquiring title, for the use of the public, to lands and premises bounded by VERNON AVENUE and the EAST RIVER and PIERCE AVENUE and SANFORD STREET, First Ward of the Borough of Queens, in The City of New York, required for the opening of a public park.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, Second Department, at a Special Term of said Court to be held in the County Courtroom in the Borough of Queens, in the City of New York, on Saturday, the 3d day of October, 1903, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter.

The nature and extent of the improvement hereby intended is the acquisition of title by The City of New York, for the use of the public, to all the lands said premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a public park at Vernon avenue and the East river and Pierce avenue and Sanford street, in the First Ward of the Borough of Queens, in the City of New York, being the following described lots, pieces or parcels of land, viz.:

Beginning at a point on the westerly side of Vernon avenue, which said point is distant 488.43 feet northerly from a point formed by the intersection of the westerly side of Vernon avenue with the northerly side of Pierce avenue, and thence running northerly along the westerly line of the northerly line of the land formerly belonging to the Estate of Stevens; thence westerly along the northerly line of land formerly belonging to the Estate of Stevens to the pier or bulkhead line established by the Secretary of War February 15, 1902; thence southerly to the pier or bulkhead line to the southerly line of land belonging to Thomas Rainey; thence along the southerly line of land belonging to Thomas Rainey to the westerly line of Vernon avenue, to the point or place of beginning.

The lands and premises, title to which is sought to be acquired in this proceeding for the purpose of opening said new park, are shown on a map entitled "Plan Showing Proposed Park between Vernon Avenue, East River, Pierce Avenue and Sanford Street, in the First Ward, Borough of Queens, City of New York," which map was filed in the office of the President of the Borough of Queens, of the Corporation Counsel of The City of New York, and of the Clerk of the County of Queens, on the 4th day of August, 1903.

Dated NEW YORK, September 17, 1903.

GEORGE L. RIVES, Corporation Counsel,

No. 2 Tryon Row, Borough of Manhattan, City of New York.

\$15.28

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title to PINE STREET, from Glenmore avenue to Sutter avenue, in the Twenty-sixth Ward, in the Borough of Brooklyn, The City of New York.

NOTICE IS HEREBY GIVEN THAT WE, the undersigned, were appointed by an order of the Supreme Court made and entered herein on the 25th day of May, 1903, and duly filed in the office of the Clerk of Kings County, a copy of which order was filed in the office of the Register of the County of Kings on the 27th day of May, 1903, and indexed in the Index of Conveyances in Section 13, Blocks 4214, 4215, 4233, 4234, 4250 and 4251. Commissioners of Estimate and Assessment for the purpose of making a just and equitable estimate of the loss or damage, if any, to the respective owners, lessees, parties and persons entitled to or interested in the lands and premises to be taken for the purpose of opening the said street or avenue, as particularly described in the petition of The City of New York filed with said order in the office of the Clerk of Kings County, and for the purpose of making a just and equitable assessment of the benefit of said street or avenue so to be opened, to the respective owners, parties and persons respectively entitled to or interested in the lands and premises and not required for the purpose of opening said street or avenue, but benefited thereby, and of ascertaining and defining the district benefited by said assessment, and the extent and boundaries of the respective tracts and parcels of land participating in said benefit, and of performing the trusts and duties required of us by title 4 of chapter 17 of the Charter of The City of New York, and the acts or parts of acts supplementary thereto or amendatory thereof.

All parties and persons interested in the lands and premises taken or to be taken for the purpose of opening said street or avenue, or affected thereby, and having any claim or demand on account thereof, are hereby required to present the same, duly verified, to us, the undersigned Commissioners of Estimate and Assessment, at our office in the Bureau of Street Openings of the Law Department, No. 166 Montague street, Borough of Brooklyn, in the City of New York, with such affidavits or other proofs as the said owner or claimants may desire, within twenty days after date of this notice.

And we, the said Commissioners, will be in attendance at our said office on the 28th day of September, 1903, at 3.30 o'clock in the afternoon of that day, to hear the said parties and persons in relation thereto; and at such time and place, and at such further or other time and place as we may appoint, we will hear such owners in relation thereto, and examine proofs of such claimant or claimants, or such additional proofs and allegations as may then be offered by such owner or on behalf of The City of New York.

Dated BOROUGH OF BROOKLYN, THE CITY OF NEW YORK, September 3, 1903.

EDWARD J. KENNEY, JR.,

A. C. DE BRAW,

JOSEPH B. BOONE,

Commissioners.

CHARLES S. TABER, Clerk.

\$3.26

PROPOSALS FOR BIDS AND ESTIMATES FOR THE CITY OF NEW YORK.

NOTICE 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 therein, 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, as a condition precedent to the reception or consideration of any proposal, it be 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 420 of the Greater New York Charter.

The certified check or money should not be included in the envelope containing the bid or estimate, but should be either inclosed in a separate envelope addressed to the head of the Department, President or Board, or submitted personally upon the presentation of the bid or estimate.

For particulars as to the quantity and quality of the supplies, or the nature and extent of the work, reference must be made to the specifications, schedules, 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 contract 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 therefor 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.