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THE CITY RECORD.

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BOARD OF ALDERMEN.

Hearing by the Committee on General Welfare.

PUBLIC NOTICE IS HEREBY GIVEN that the Committee on General Welfare of the Board of Aldermen will hold a public hearing in the Aldermanic Chamber on MONDAY, JUNE 26, 1916, at 2 p. m., on the following matters:

No. 458. "An Ordinance to amend chapter 14 of the Code of Ordinances, relating to licenses, by adding a new article, to be known as article 15, entitled 'Massage Parlors.'"

No. 598. "An Ordinance to amend chapter 14 of the Code of Ordinances by adding thereto a new article relating to Massage establishments, their proprietors, managers and employees."

No. 622. "An Ordinance to amend article 2 of chapter 1 of the Code of Ordinances, relating to miscellaneous regulations, by adding thereto a new section, to be known as 'Section 12. Cutting of Stone, etc., for Municipal Work.'"

No. 646. "An Ordinance to amend section 21 of chapter 21 of the Code of Ordinances, relating to the discharge of volatile inflammable liquids into sewers or drains."

These ordinances may be found in the minutes of the Board of Aldermen printed in the CITY RECORD of May 4, 1916, June 1, 1916, and June 8, 1916.

All persons interested are invited to attend.

j23,26 P. J. SCULLY, City Clerk and Clerk of the Board of Aldermen.

BOARD OF ESTIMATE AND APPORTIONMENT.

Notice of Public Hearing.

Building Districts and Restrictions.

In the Matter of the Adoption by the Board of Estimate and Apportionment of Resolutions:

(1) Regulating and limiting throughout the City of New York the heights and bulk of buildings hereafter erected and regulating and determining the area of yards, courts and other open spaces, and dividing the City into districts to carry out the purposes of said regulations, pursuant to the provisions of Section 242a of the Greater New York Charter, and

(2) Regulating and restricting throughout the City of New York the location of trades and industries and the location of buildings designed for specified uses, and dividing the City into districts to carry out the purposes of said regulations pursuant to the provisions of Section 242b of the Greater New York Charter.

NOTICE IS HEREBY GIVEN to all persons interested in the above entitled matters, and to the owners, lessees and occupants of all buildings and lots, and improved and unimproved lands within the City of New York, and to all others whom it may concern, to wit:

First—The Commission duly appointed by the Board of Estimate and Apportionment, pursuant to the provisions of Sections 242a and 242b of the Greater New York Charter, have filed with the Board of Estimate and Apportionment their FINAL REPORT containing, among other matters, a proposed resolution designed to provide the above described regulations. This report will be open to the inspection of the public during office hours, in the office of the Secretary of the Committee on City Plan of the Board of Estimate and Apportionment, Room 301, Municipal Building, until June 19, 1916.

Second—The Board of Estimate and Apportionment will hold a public hearing on the FINAL REPORT AND PLANS submitted by said Commission, at 10.30 a. m. on JUNE 19, 1916, in Room 16 of the City Hall, at which time and place an opportunity to be heard will be afforded to all persons interested.

Dated, June 7, 1916.

JOSEPH HAAG, Secretary, Municipal Building; Telephone 4560 Worth.

The aforementioned hearing will be continued in Room 16, City Hall, on Wednesday, June 21, 1916, at 10.30 a. m., for the purpose of hearing those interested in the proposed regulations and restrictions in so far as the same affect the Borough of Brooklyn, and on Tuesday, June 27, 1916, at 10.30 a. m., in Room 16, City Hall, the hearing will be continued for the purpose of hearing those interested in the proposed regulations and restrictions in so far as the same affect the Boroughs of The Bronx, Queens and Richmond, and also those interested in the general provisions of the proposed Districting Resolution.

Dated June 20, 1916.

j20,27 JOSEPH HAAG, Secretary, Municipal Building; Telephone 4560 Worth.

PUBLIC SERVICE COMMISSION—FIRST DISTRICT.

No. 120 BROADWAY, NEW YORK CITY.

Calendar for the Week Commencing June 26, 1916.

Notice—The Commission announces that on and after June 26, 1916, its meetings and hearings in formal proceedings will be held in Room No. 2562, at its offices, No. 120 Broadway, New York City, unless otherwise stated.

Monday, June 26, 1916—10.30 a. m.—Room 2562—Adjourned Meeting of the Commission. 10.30 a. m.—Room 2562—Case No. 2105—Long Island Electric Railway Company—"Service on Jamaica-Far Rockaway Division"—Whole Commission. 11.30 a. m.—Room 2562—Rapid Transit Railroads—"Opening of bids for construction of yard at 180th st."—Whole Commission.

Wednesday, June 28, 1916—2.30 p. m.—Room 2562—Case No. 2066—Gas Corporations—"Standards for measurement of illuminating and heating power of gas"—Both Commissions. 2.30 p. m.—Room 2562—Case No. 1610—Newtown Gas Company—A. Herrmann et al., Complainants—"Rehearing as to rate for gas in the Second Ward, Borough of Queens"—Whole Commission. 2.30 p. m.—Room 2562—Case No. 1787—Woodhaven Gas Light Company—Albert C. Schwarz et al., Complainants—"Rehearing as to rate for gas in the Fourth Ward, Borough of Queens"—Whole Commission. 2.30 p. m.—Room 2562—Case No. 1807—Woodhaven Gas Light Company et al.—"Rehearing as to rate for gas in the Fourth Ward, Borough of Queens"—Whole Commission.

Regular meeting of the Commission held Thursday at 11 a. m.

Meeting of the Committee of the Whole held Wednesday at 10.30 a. m.

DEPARTMENT OF FINANCE.

REPORT ON THE COST OF MAINTENANCE AND OPERATION OF THE WATER SUPPLY SYSTEM, AND OF THE BUREAU OF GAS AND ELECTRICITY FOR THE YEARS 1913 AND 1914.

Department of Finance., The City of New York, Bureau of Municipal Investigation and Statistics, May 25, 1916.

Hon. WILLIAM A. PRENDERGAST, Comptroller, The City of New York:

Dear Sir—This report deals primarily with the statements of revenues and expenses submitted by the Department of Water Supply, Gas and Electricity to the Department of Finance for the years 1913 and 1914, and with other financial matters pertinent thereto. Before, however, proceeding to a discussion of the financial statements and problems of this department, it is proposed to sketch briefly the development of the water supply plant of the Greater City.

I. Development of the Water Supply Plant.

One of the histories of the city states that its first public wells were constructed in 1677, that they were six in number, and were constructed in the middle of the street. All of them appear to have been south of Wall Street and east of Broadway. In 1753 a law was passed authorizing the city "to raise a tax for mending and keeping in repair the public wells and pumps in the city." This law provided for the appointment of overseers of pumps and the purchase of fire buckets, payable out of the said tax. About 1770, proposals for the construction of a reservoir were entertained, and in 1774 and 1776 appropriations were made for its construction, but owing to the breaking out of the Revolutionary War, the entire works were not completed. Mention is also made of the "Tea Water Works," erected at the Collect Pond in 1786, and of the chartering of the Manhattan Company in 1799 to furnish water from the Bronx River. This company had a capital of \$2,000,000, of which \$100,000 was taken by the city. A reservoir was built by the latter company in Chambers Street, and wooden pipes were laid for the distribution of the water below City Hall. In 1836 the company supplied 2,000 houses through about 25 miles of mains. No water was, however, delivered from the Bronx River. The largest well of the company was sunk at the northwest corner of Reade and Lafayette streets. The tank above it was not demolished until 1914. The well still remains.

Despite the service rendered by the Manhattan Company, there was a continued demand that water should be supplied by the city, and as a result of a disastrous fire in 1828 a well and reservoir was constructed at Thirteenth Street and the Bowery, and iron pipes and hydrants connected with it. This supply was intended chiefly for the suppression of fires. The success of this latter undertaking, and the constant menace to health of the water supplied from wells, led to the adoption in 1835 of a plan to bring water to the city from the Croton River through what is now known as the Old Croton Aqueduct. It has dimensions of about 7½ feet wide and 8 feet high, giving a cross section of about 53 square feet, and runs from the Croton Dam, about six miles from the mouth of the Croton River, along the valley of that river almost to the Hudson; thence through Sing Sing, Tarrytown, Dobbs Ferry, Hastings and Yonkers to the Harlem River, a distance in all of 32.88 miles; thence over High Bridge and southward to the receiving reservoir in Central Park; and thence, originally, to the distributing reservoir at Murray Hill, the site now occupied by the New York Public Library. The total length of the system from the Croton Dam to Murray Hill was about 40.50 miles. It had a capacity of 90 million gallons daily. Water from it was turned into the Murray Hill Reservoir (since known as Bryant Park Reservoir) on July 4, 1842.

By 1865 the use of water had so increased that the daily supply from the Croton River was insufficient to meet the needs of the city. Consequently, a storage reservoir was begun at Boyd's Corners in Putnam County and completed in 1872. In 1884, there was added to the city water supply about eleven million gallons daily from the Bronx watershed and in 1897, about seven million gallons from the Byram watershed. These waters were conveyed fifteen miles in 48-inch pipes from the collecting reservoir at Kensico to the receiving reservoir at Williamsbridge. The water not needed to supply the Twenty-third and Twenty-fourth Wards was conveyed to the Central Park Reservoir.

In 1884 the construction of a new Croton aqueduct was decided upon. This aqueduct is of horseshoe shape 13.6 feet wide and 13.5 feet high, giving a cross section area of 154 square feet. It runs in a comparatively straight line from the old Croton Reservoir to Jerome Reservoir, thence to 135th Street gate house and from that point, by pipe lines, to the reservoir in Central Park, a distance of 33.10 miles. Its capacity is approximately 290 million gallons daily.

The following concrete description of the present water supply system has been extracted from a pamphlet recently prepared by the Department of Water Supply, Gas and Electricity:

"Previous to 1911 additional reservoirs were constructed from time to time to meet the demands of Manhattan borough, due to its growth, so that at present there are ten reservoirs and six lakes in the Croton watershed, storing 104,000 million gallons. The reason for this large storage is due to the fact that the flow of Croton river, the main source of this borough's supply, varies greatly in volume, falling in times of severe drought to practically nothing, the evaporation from existing water surfaces being at times greater than the total flow of the river. The Croton water-

shed will yield a supply of 336 million gallons daily, assuming that the minimum flow during any series of years will not fall below that previously recorded and that all stored waters are drawn from the reservoirs during such drought period. The total storage is equivalent to 10 months' supply. The reservoirs are useful not only in increasing the available yield of the watershed, but also in furnishing a means of purification of the supply through a long period of sedimentation. The main reservoir is Croton Lake, which is formed by the New Croton dam, the spillway being at Elevation 199.06, and the overflow with flash boards on, being two feet higher. This large masonry dam, which was constructed between the years 1892 and 1905 at a cost of approximately \$17,000,000, including land, forms a lake 20 miles long which submerges the Old Croton dam and which has a water-level of 170 feet above that of the old stream. The dam is built across the valley of the Croton river three miles up from where it enters the east bank of the Hudson River, above the city of Ossining. The distance that this dam is from the northerly City limits is some 22 miles. The water-level in the aqueducts is about 50 feet lower than the level of the lake when full. Nearly one-third of the total storage capacity in the watershed is in this lake. The other reservoirs and ponds are utilized to maintain the required volume of water in Croton Lake. The water drawn from these reservoirs flows through the natural watercourses to the next lower reservoir, eventually reaching Croton Lake. The area of the Croton watershed as it exists today is 375 square miles, containing a population of about 25,000, mainly concentrated in several small towns and villages.

The Borough of The Bronx is really an extension of the Borough of Manhattan. It is supplied from two sources; nearly three-quarters of the supply comes from the Croton system and the remainder from the Bronx and Byram systems. The Bronx River was first developed in 1884 to relieve the shortage of water from the Croton system, and the Byram river was added in 1897. The combined watersheds of these two rivers cover 22 square miles and lie adjacent to and south of the Croton watershed.

The former City of Brooklyn, like the former City of New York, did not develop a public water-supply system until its population had reached nearly 300,000. The use of wells and cisterns being the only sources of supply prior to 1859, when water collected on the south side of Long Island was first delivered into a distribution system. Within ten years the original works, which extended easterly to the Hempstead valley, were found to be inadequate, and from that time on additions were made as necessity demanded. The principal addition was the extension of the work easterly to Massapequa, Long Island, between 1889 and 1892, at which time the Millburn and the Ridgewood South Side pumping-stations were constructed.

The Borough of Brooklyn is supplied from the watershed formed by the south side of Long Island, the works extending easterly 23 miles beyond the limits of the borough to the Suffolk County line and containing 168 square miles. The south side of Long Island is the out-wash from a terminal moraine and is composed of layers of sand, gravel and clay. Due to the porous character of the soil practically all the rainfall is absorbed and passes underground towards the sea. A small portion appears in the form of streams where the surface of the ground dips below the water-table. Small earthen dams on the various streams form 11 supply ponds. There are no large storage reservoirs on the watershed. Driven wells of a depth from about 30 feet to several hundred feet are utilized for a large part of the supply, and furnish an average of 62 million gallons daily. Infiltration galleries, laid for nearly six miles, about 10 to 15 feet below the water-table, yield between 30 and 40 million gallons daily. Both surface and subsurface water is collected at varying intervals along the southern portion of the watershed, which is in general a mile from tide-water. Somewhat less than one-half the supply is elevated by an intermediate pumping-station located near Freeport, Long Island, and thence delivered by gravity to the Ridgewood station, located a mile west of the borough line. At this station the water for the low and intermediate services is pumped. The low-service water is delivered at the Ridgewood Reservoir level of 172 feet and the intermediate service water to the Mount Prospect Reservoir level at an elevation of 200 feet. About 10 per cent. of the supply is pumped at the Mount Prospect station, located near Prospect Park, to the Mount Prospect Tower level, with an overflow of 280 feet, this tower controlling the high-service level. Three driven-well stations, located within the borough limits, pump their supply directly into the low-service distribution mains. The Brooklyn system, as developed, is estimated to have a safe capacity of 150 million gallons daily, which is sufficient to meet all anticipated demands prior to the introduction of the Catskill water.

The sources of supply for the Borough of Queens are various. The First Ward is supplied from the Brooklyn system, supplemented by a small amount derived from the municipal pumping-stations in the Third Ward, Queens. The Third Ward is supplied by two pumping-stations, one station drawing its supply entirely from driven wells and the other obtaining approximately half its supply from a small lake, the water being filtered. The Second, Fourth and Fifth Wards are supplied by private water companies, the source of supply being entirely ground-water collected by means of driven wells. There are four principal private water companies, exclusive of the one which serves the Long Island Railroad Company.

The Borough of Richmond is dependent for its supply on ground-water drawn from wells. The City owns and operates six small plants. The largest plant (on the Southfield boulevard) was put in operation in 1915, consisting of four auxiliary driven-well units and uses electrically driven centrifugal pumps to collect the supply and deliver it to the main station, where a fifth well group is located. At the main station steam pumps deliver the supply directly into the distribution system.

After the introduction of water through the old Croton aqueduct in 1842, the management of the Croton water supply was vested in a commission appointed by the Common Council until 1849; thence until 1870 in the Croton Aqueduct Board, consisting of three members, one of whom was required to be a civil engineer. The duties of this board were transferred by the Charter of 1870 to the Commissioner of Public Works. The Charter of the Greater New York, effective January 1, 1898, placed the management and control of the water department in a Commissioner of Water Supply named by the Mayor. The Commissioner was also a member of the Board of Public Improvements, consisting of a president appointed by the Mayor, and the Commissioners of the Departments of Water Supply, Highways, Street Cleaning, Sewers, Public Buildings, Lighting and Supplies, and Bridges. The Charter of 1901 abolished this Board, and the Commissioner of Water Supply became the Commissioner of Water Supply, Gas and Electricity.

In August, 1899, the Water Commissioner gave notice to the Board of Public Improvements that at its next meeting he would present for its approval a proposed contract with the Ramapo Water Company for supplying the city with 200 million gallons of water daily from the Ramapo watershed, crossing the easterly part of the New York-New Jersey state boundary, at a cost of \$70 per million gallons. Objection was immediately made to the approval of this contract on the ground that its terms were extremely disadvantageous to the city, that the water could not be delivered at the time specified in the contract, and that public policy required that the city retain control of its water supply.

The urgency of making provision for the city's water needs, combined with the general disinclination of its citizens to place the control of the city's water supply in the hands of a private water company, led to an extensive examination of the consumption of water, its rate of increase, the safe yield of the sources then owned by the city, the amount of water wasted that might be saved, the investigation of new sources of water supply, and estimates of the probable cost of the necessary reservoirs, aqueducts, etc. One of the important reports resulting from these investigations was that of Mr. John R. Freeman, C. E., under date of March 23, 1900, to the Comptroller of The City of New York; another was that made by a committee of the Merchants' Association under date of August 3, 1900, based upon the reports of well-known engineers; and a third report grew out of an agreement made on December 16, 1902, by the Department of Water Supply, Gas and Electricity with Messrs. William H. Burr, Rudolph Hering and John R. Freeman, Civil Engineers. They were instructed to report upon:

"(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 source 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."

After fully considering the subjects referred to, the engineers above mentioned recommended, under date of November 30, 1903, the development of the upper Fishkill and the Esopus creeks, the former lying southeast of Poughkeepsie and the latter northwest of Kingston. It was then estimated that, exclusive of water damages, the entire cost of delivering an additional water supply of 500,000,000 gallons daily would be \$111,478,000.

On January 3, 1905, a bill was introduced into the Legislature authorizing the Mayor to appoint three commissioners to provide for the city an additional water supply. To prevent as far as possible opportunities for political favoritism, this bill named the civic bodies from which the commissioners were to be selected. It was urged, however, that this provision made the bill unconstitutional, and it was therefore withdrawn from the bill. Chapter 724 of the Laws of 1905, effective June 3, 1905, gave Mayor McClellan unqualified power to appoint three commissioners, he having publicly pledged himself "immediately on the enactment of the bill to call upon the Chamber of Commerce of New York, the Board of Fire Underwriters and the Manufacturers' Association for a list of three names each, and from those names to appoint Commissioners, one from each list." On June 9, 1905, the Mayor appointed Messrs. J. Edward Simmons, Charles N. Chadwick and Charles A. Shaw, Commissioners, to constitute the Board of Water Supply of the City of New York. Chapter 724 of the Laws of 1905, as amended by Chapter 314 of the Laws of 1906, not only provided for a Board of Water Supply, but also made provision for the acquisition of real estate, and for the construction of a new water supply system.

In its report of October 9, 1905, to the Mayor, the Board of Water Supply recommended that, pursuant to chapter 723 of the Laws of 1905, "immediate application be made to the State Water Supply Commission for the appropriation of the waters of the following named sources:

- "1. Esopus Creek, to be taken at a point near Olive Bridge.
- "2. Rondout Creek, to be taken at a point near Napanoch; three small streams tributary to the Rondout, to be taken as shown on the map.
- "3. Schoharie Creek, to be taken at a point near Prattsville.
- "4. Catskill Creek, to be taken at a point about one mile north of East Durham; six small streams tributary to aqueduct from Catskill Creek to Ashokan Reservoir. * * *

The estimated yield of these sources was stated as follows:

	Gallons Daily.
"1. Esopus watershed, area 255 square miles, with storage near outlet of about 70 billion gallons, about.....	250,000,000
2. Rondout watershed, area 131 square miles, with storage, in three reservoirs, of about 20 billion gallons, about.....	98,000,000
Three small watersheds tributary to Rondout, area 45 square miles, about	27,000,000
3. Schoharie watershed, area 228 square miles, with storage, partly in Ashokan reservoir, of about 45 billion gallons, about.....	136,000,000
4. Catskill watershed, area 163 square miles, with storage partly in Ashokan reservoir, of about 30 billion gallons, about.....	100,000,000
Six small watersheds, tributary to aqueduct, between Catskill Creek and Ashokan reservoir, combined area about 82 square miles, about	49,000,000

Total available yield of the Catskill sources, exclusive of (inter-state) Delaware tributaries

It was proposed to develop these sources in the order stated, and to build in connection with them an aqueduct of a capacity of 500 million gallons daily, that being, the report states, "under present conditions, an economic limitation as to its size."

It was stated further that: "The estimated cost of constructing Ashokan Reservoir and an aqueduct of 500 millions daily capacity from this point to Hill View Reservoir, including Rye Pond development, together with a conduit of 100 million gallons daily capacity from Hill View Reservoir to Brooklyn, with a terminal at Forest Park, and a pipe line of 20 million gallons daily capacity to the Borough of Richmond, as shown on the map, is \$112,092,000. This will insure the delivery of 250 million gallons per day to Hill View, of which 100 million gallons per day will go to the boroughs of Brooklyn and Richmond."

It was then estimated that to secure the additional 250 million gallons daily to provide the full capacity of the aqueduct would cost about \$49,765,000, bringing the total estimated cost of completed works of 500 million gallons daily capacity up to \$161,857,000. On October 27, 1905, this plan was unanimously approved by the Board of Estimate and Apportionment, and on November 3rd of the same year, application was made to the State Water Supply Commission for its approval.

The plans submitted, somewhat modified, the principal modification being the exclusion, because of a flaw in the legal procedure, of the Schoharie watershed, were approved by the State Water Supply Commission on May 14, 1906. The development of the Schoharie watershed by the Board of Water Supply was later approved by the commission on October 21, 1914. Subsequently, however, on December 23, 1915, request was made by the Board of Water Supply to the Board of Estimate and Apportionment for authorization to change the original plans by developing the Schoharie watershed to give a daily supply of 250 million gallons instead of the 136 previously referred to, thereby obviating the necessity of developing the Rondout and Catskill Creeks. The revised plans will locate the dam across the Schoharie Creek at Gilboa, the reservoir running approximately five miles southerly from that point and connecting there with a tunnel running under the Shandaken Mountains, approximately 16.2-3 miles long, which will convey the water to the Esopus Creek, to be carried to the Ashokan Reservoir. After several meetings had been held to discuss all sides of the question, the Board of Estimate and Apportionment approved this revised plan on January 31, 1916.

Before proceeding to a consideration of the financial statements relating to the maintenance and operation of the present water supply system of the City it will doubtless be of interest to set forth here some additional statistics indicative of the magnitude of the physical features of the new Catskill water supply system, the development of which has just been sketched.

The main supply of the new system will be drawn from the Ashokan Reservoir, located about thirteen miles west of Kingston. It will have a capacity of 132 billion gallons, and, once filled, will be able without further rainfall to supply the City with 500 million gallons of water daily for about eight months. This reservoir will be about 12 miles long and about 1 mile wide, with a maximum depth of 190 feet. The greatest height of the water above sea level will be about 590 feet. The main aqueduct, aggregating 92 miles to the City line, comprises four different types of construction. These are described as "cut and cover," "grade tunnel," "pressure tunnel" and "steel pipe siphon." The "cut and cover" type forms 55 miles of the aqueduct and is of horseshoe shape in cross-section, 17 feet high by 17 feet 6 inches wide inside, constructed of concrete. Where hills and mountains cross the line there are 24 grade tunnels, aggregating 14 miles, which are of horseshoe shape, 17 feet high by 13 feet 4 inches wide; where valleys had to be crossed seven "pressure tunnels" in all have been constructed, about 14 feet in diameter, aggregating in length 17 miles. Other sections necessitated the construction of "steel pipe siphons," of which there are 14, aggregating 6 miles in length. This main aqueduct will convey the water in a southerly direction to Storm King Mountain, four miles north of West Point, thence in a tunnel 1,100 feet under the Hudson River to the Breakneck Mountains, thence east to Kensico Reservoir, east of Tarrytown, thence south to the Hill View Reservoir near the New York-Yonkers boundary line; thence under the Borough of The Bronx, the Harlem River, the Borough of Manhattan and the East River to a terminal in Brooklyn, with pipes extending to the Boroughs of Queens and across the Narrows into the Borough of Richmond. Under the City the tunnel will be circular in section, varying from 11 feet to 15 feet in diameter, and will be lined with concrete. It will lie between 200 and 750 feet below the surface. The entire length of the aqueduct from Ashokan Reservoir to the reservoir at Silver Lake, Richmond, will be about 120 miles.

The cost of developing the entire system to Hill View Reservoir and the work within The City of New York, including Silver Lake Reservoir, located in the Bor-

ough of Richmond, Staten Island, has been finally estimated at approximately \$177,170,000, excluding the cost of interest during construction, which is paid from tax levies. The financial report of the Board of Water Supply of December 31, 1914, shows that up to that date corporate stock had been authorized for the purposes of the Catskill water system to the amount of \$141,872,000, premiums on the corporate stock sold and miscellaneous revenues bringing the total amount made available for its purposes up to \$142,515,849.07. Of this sum there was available on January 1, 1915, for further expenditures \$8,580,283.90 after deducting all outstanding liabilities. It is expected that the first 250 million gallons of water, from the Esopus watershed, will be delivered by the beginning of January, 1917.

II. Financial History of Present Water Supply System.

Despite much agitation from before Revolutionary days for an adequate supply and convenient distribution of pure water, nothing of particular moment was accomplished in this direction until after 1830. Early in this year, says Charles King, in his Memoir of the Croton Aqueduct, "we find a motion made in the Common Council to apply to the Legislature for all needful power to supply the city with water, and to create two millions of stock to defray the cost thereof; this did not prevail—but attention was earnestly aroused to the subject, and all sorts of schemes were suggested." On February 6, 1834, the Manhattan Company having made a proposition to sell its water properties and rights to the city, a resolution was adopted authorizing negotiations with this company, and on the same day the Common Council resolved to make application to the Legislature for permission to issue \$2,500,000 of "The Water Stock of The City of New York."

An act to provide for supplying The City of New York with pure and wholesome water was passed on May 2, 1834. It provided that the Governor should nominate, and, with the consent of the Senate, appoint five persons, to be known as the Water Commissioners for The City of New York, gave same commissioners power to employ engineers, etc., to make the necessary investigations and plans, and required the same commissioners to report their findings to the Common Council. The question of raising the necessary funds was then to be submitted to the electors and, if favorably passed upon, the Common Council was empowered to instruct the Water Commissioners to proceed with the work.

The Commissioners reported in February, 1835, in favor of taking the supply from the Croton River. The report states that "the whole river can be brought to Murray's Hill in a close aqueduct of masonry, at an expense of \$4,250,000, and there deposited in reservoirs ready for distribution." The electors voted in April, 1835, in favor of building the aqueduct.

In 1838 the estimated cost of the work, as it was then proposed to carry it on, had risen to approximately \$8,500,000. Upon the substantial completion of the work, in 1843, the cost of the aqueduct, as stated by King, was:

"Total cost of the Croton Aqueduct—	
Paid for work done by contractors up to 1st April, 1843.....	\$7,138,486 34
Incidental expenses up to same date, including salaries of engineers and commissioners	436,860 11
Cost and rent of land for line of aqueduct.....	408,155 67

Actual money cost of the aqueduct to the distributing reservoir at Murray Hill	\$7,983,502 12
Add, for procuring and laying water pipes	1,878,839 51
Interest on water stock to 1st August, inclusive	1,577,459 43
Sundry water loan, and other expenses.....	12,818 55

Total expenditure..... \$11,452,619 61

"The total amount of stock authorized to be issued is twelve millions of dollars. The balance unexpended will suffice to complete the high bridge over the Harlem, and henceforth the interest on the debt is to be paid from taxes."

Changes and improvements, additional reservoirs, etc., had, however, by 1880, brought the total cost of the original system up to \$33,382,521.25. About \$4,000,000 additional was spent on the Bronx and Byram supply, bringing the cost of the water supply plant up to 1884 to approximately \$37,382,521.25. Between 1884 and 1890, the construction of the New Croton Aqueduct and additional storage reservoirs cost an additional \$24,571,264.63; the expenditures between 1890 and 1898, of \$24,405,776.21 more brought the total expenditure up to \$86,359,562.09.

The report of the Merchants' Association issued in 1900, states, in addition, that for the same period, January 1, 1832, to December 31, 1898, The City of New York "expended for interest charges, maintenance and operation \$66,544,245.38, the aggregate earnings were \$88,017,329.72, and the total net profit was \$21,473,084.34."

The report referred to divides this time, 1832 to 1898, into three periods:

	Total Receipts.	Cost of Maintenance.	Net Interest Cost.	Profit on Operation.
1832-1884	\$41,625,530 95	\$6,991,631 59	\$31,572,961 02	\$3,060,938 34
1885-1889	12,681,943 95	2,854,166 62	5,317,233 69	4,510,543 64
1890-1898	33,709,854 82	5,739,575 71	14,068,676 75	13,901,602 36
Totals.....	\$88,017,329 72	\$15,585,373 92	\$50,958,871 46	\$21,473,084 34

A "History and Description of the Water Supply of the City of Brooklyn" states, January, 1896, that the cost of the Brooklyn water system to that date was \$22,089,164.22. For 1895 the revenues were given as \$1,851,844.56, the expenses, including taxes and interest (but excluding sinking fund charges) as \$1,521,656.04, the net profit being, consequently, \$330,188.52.

As shown elsewhere in this report, the valuation placed upon all the properties of the old water supply system of the city on December 31, 1914, was \$227,237,027.46. The net income from operation for that year, without allowing for interest on bonds and amortization, was \$8,993,387.37, or 3.96 per cent. of the valuation placed upon the entire plant. If we divide the total value of the plant (\$227,237,027.46) by the millions of gallons of water consumed daily during the year 1914 (508), we find that each million gallons of daily use or waste represents a capital investment of \$447,317.

As to the new Catskill system, expenditures had been made therefor to December 31, 1914, to the sum of \$123,010,457.62, excluding any charges for interest during construction.

It may here be well to explain the basis taken in arriving at the population estimates in this report and the reasons for accepting this basis. Considerable discussion having arisen as to whether the 1915 state census should be accepted for municipal purposes, the Department of Health of the city communicated with the federal authorities at Washington requesting their opinion and, on January 20, 1916, received the following reply:

"After careful consideration of the statements made in regard to the New York State census of 1915, the Census Bureau has decided that it will compute estimates of population based upon the federal censuses of 1900 and 1910, and that such estimates will be used in all computations for rates and *per capita*. No state enumeration will be accepted as an official census by the Census Bureau."

It has been generally felt that the state census failed to include a great many persons who, although not permanent residents, nevertheless enjoy in common with citizens the advantages provided by the municipality of The City of New York. This, however, does not refer to the many thousands of commuters who do not reside within the limits of the five boroughs. It was further admitted by the Department of Health that the European War had affected their annual estimates, and since that department has now decided that, under the circumstances, the federal basis should be accepted, there would appear to be no other alternative for the adoption by all departments of the city of the arithmetical method of computation based on the federal censuses of 1900 and 1910. This method of estimation, although somewhat arbitrary, is generally regarded as conservative.

The following general statistics covering the past five years and revenue figures covering four years have been prepared for purposes of comparison and future record. They show: (1) the total and *per capita* consumption, (2) the total and *per capita* cost, and (3) the total annual revenues and *per capita* contribution. In the first two instances the statistics are based on the net population, after deducting that part supplied by the private companies, and in the third instance they are computed on the total population of the city as well as that part of it actually served by the department.

(1) Per Capita Consumption.

Year.	Population Served by the Department.	Total Consumption (Million Gallons).	Millions of Gallons Consumed Daily.	Average Daily Per Capita Consumption (Gallons).
1910.....	4,476,899	180,711.5	495	110
1911.....	4,595,641	168,411.0	461	100
1912.....	4,714,481	171,836.0	470	100
1913.....	4,833,321	169,213.5	463	96
1914.....	4,952,162	185,273.5	507	102

(2) Per Capita Cost.

Year.	Annual Expenditures.*	Cost Per Million Gallons on Basis of Consumption.	Cost Per Capita on Basis of Population Served.
1910.....	\$4,312,399 23	\$23.86	\$0.96
1911.....	4,453,909 26	26.45	.97
1912.....	4,365,320 42	25.40	.92
1913.....	4,572,380 63	27.02	.95
1914.....	4,187,453 81	22.60	.84

*Note—Not including Interest, Amortization or Depreciation Charges.

(3) Per Capita Contribution.

Year.	Total Population.	Annual Revenues.	Contributed by Each Inhabitant.	
			On Basis of Total Population.	On Basis of Population Served.
1911.....	4,929,586	\$12,163,436 78	\$2.47	\$2.65
1912.....	5,064,237	12,477,737 19	2.46	2.65
1913.....	5,198,888	12,753,050 52	2.45	2.64
1914.....	5,333,539	13,180,841 18	2.47	2.66

†Note—Total annual revenues not obtainable prior to 1911.

The most remarkable thing in the foregoing computations lies in the comparatively small increase in consumption in proportion to the increase which has taken place in the city's population over the five-year period, 1910 to 1914, inclusive. Further computation shows that while the increase in population over these five years (on the federal basis explained), was about 2.25 per cent. per annum, the total consumption averaged an increase of a little over half of one per cent. per annum. Whether this condition will continue when the Catskill supply is available is a matter of conjecture, but if such should be the case the effect would be to change materially all estimates of future consumption based on estimated future population.

For the year 1910 the *per capita* consumption is shown at 110 gallons daily for all boroughs, but for the year 1913 this was reduced to 96 gallons *per capita*. This large saving is attributed to a house to house inspection which took place in the Boroughs of Manhattan and The Bronx from June, 1911, to December of that year. A similar propaganda against waste and leakages, which included the wholesale distribution of circulars dealing with the subject, was carried on in the Borough of Brooklyn from July, 1912, to June, 1913. As will be seen, the results of this inspection work were very gratifying but in the following year, when it was interrupted, the consumption increased by no less than 44 million gallons daily, averaging an additional six gallons *per capita*. Nevertheless, a further examination of the figures presented later in this report, shows that considerable decreases in expenditures occurred in 1914, which had the effect of reducing the cost per million gallons by \$4.42, as compared with 1913.

It appears that the *per capita* consumption of New York City compares very favorably with that of other large cities in the United States. According to the Journal of American Water Works (March, 1915), the *per capita* consumption of some of the largest cities or towns in three of the States lying east of Chicago, namely, New York, New Jersey and Pennsylvania, was as follows:

City or Town.	Population Served.	Consumption (Millions of Gallons Daily).	Per Capita (Gallons).
State of New York—			
Albany	102,344	22.5	220
Buffalo	446,889	138.0	309
Rochester	235,968	22.0	94
Syracuse	146,480	17.5	120
Yonkers	90,156	8.5	96
State of New Jersey—			
Camden	100,581	12.5	125
Jersey City	287,709	45.0	156
Newark	379,211	38.5	102
Trenton	104,451	20.0	191
State of Pennsylvania—			
Allegheny	140,200	35.0	251
Philadelphia	1,631,956	290.5	178
Pittsburgh	385,000	85.0	221
Reading	101,628	14.0	138

Comparing the cost per million gallons for successive years for New York City, the figures for 1914 indicate that a considerable reduction took place. This was brought about by a closer administrative supervision and fiscal control, combined with improved accounting methods. It will also be noted that the *per capita* cost, excluding interest, amortization and depreciation charges, dropped from 95 cents, in 1913, to 84 cents in 1914. These figures are reflected in a total net decrease of \$384,926.82 for the cost of operation and maintenance for 1914 as compared with the preceding year. While no very decided increase took place in the revenues for 1911, 1912 and 1913, they increased in 1914 by \$427,790.66, or 3.36 per cent., as compared with 1913.

The details relating to the individual classes of revenues and expenditures are exhibited in the following paragraphs:

III. Analysis and Comparison of the Water Revenues and Expenditures of the City for 1913 and 1914.

The revenues for the years 1913 and 1914 were:

From.	1914.	1913.	Increase.
1. Meter Rates	\$6,517,067 21	\$6,279,482 47	\$237,584 74
2. Frontage Rates	6,139,327 97	5,985,849 56	153,478 41
3. Water for Miscellaneous Purposes.....	251,231 91	240,969 08	10,262 83
4. Other Miscellaneous Revenues, Sales of Old Material, etc.....	20,566 92	11,377 87	9,189 05
5. Penalties for Delayed Payments.....	252,647 17	235,371 54	17,275 63
Total Revenues	\$13,180,841 18	\$12,753,050 52	\$427,790 66

The expenditures for the same period for operation and maintenance were:

	1914.	1913.	Increase or *Decrease.
6. General Administration	\$273,222 89	\$269,443 43	\$3,779 46
7. Water Supply	3,053,661 68	3,418,497 15	*\$364,835 47
8. Water Revenue Collection	660,569 24	688,590 05	*\$28,020 81
9. Taxes (accrued, est'd)	200,000 00	195,850 00	4,150 00
Total Expenditures	\$4,187,453 81	\$4,572,380 63	*\$384,926 82

Net Income, excluding interest on bonds, sinking fund charges, depreciation, etc..	\$8,993,387 37	\$8,180,669 89	\$712,717 48
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The items in which the chief increases in revenue occurred are shown above. The chief savings in expenditure were in the collection, storage and distribution of water as follows:

Collection and Storage	\$22,467 60
Purchased Water	150,619 51
Pumping	91,609 41
Distribution	102,271 61
And in Water Revenue Collection:	
Administration	12,534 89
Inspection	12,996 72

Miscellaneous Decreases (\$16,303.44) less Miscellaneous Increases (\$23,876.36)

Net Decrease in Expenditures

From this latter sum should be deducted \$31,494.85, representing claims for water purchased by the City in 1914. These claims were not entered upon the books of the City, because of the lack of an appropriation to pay them. It should also be explained that \$130,864.91 is included in the foregoing expenditures as representing part of the cost of high pressure fire service. This figure is likewise included in the expenditures of the Bureau of Gas and Electricity, having been provided for in the annual budget, as it is a function of that bureau to provide the necessary current.

Consideration is now given to the items of revenue and expenditure in the order of their presentation above:

REVENUES.

1. Meter Rates, \$6,517,067.21.

The number of water meters in use in the several boroughs increased from 96,495 in 1913 to 98,868 in 1914, an increase of 2,373 meters, or 2.46 per cent. As shown above the net increase in the revenues from this source was \$237,584.74, or 3.78 per cent. The following tabulation sets up these results by boroughs:

Borough.	Water Meter Revenues.		Increase or *Decrease.	Percentage of Increase or *Decrease.
	1914.	1913.		
Manhattan	\$4,172,201 40	\$3,975,006 81	\$197,194 59	4.96
Brooklyn	1,503,065 87	1,510,767 69	*7,701 82	*.51
The Bronx	389,325 96	382,751 69	6,574 27	1.70
Queens	325,771 09	284,166 67	41,604 42	14.64
Richmond	126,702 89	126,789 70	*86 81	*.07
Totals	\$6,517,067 21	\$6,279,482 56	\$237,584 65	3.78

Included in the total revenues for 1914 is \$755,000, representing accruals to December 31, 1914, many of the meter readings partly applicable to the year not being known, of course, until after its close.

Section 475 of the Greater New York Charter, relative to charges by the city for the water furnished by it, reads in part as follows:

"The commissioner of water supply, gas and electricity is authorized, in his discretion, to cause water meters * * * to be placed in all stores, workshops, hotels, manufactories, office buildings, public edifices, at wharves, terry houses, stables, and in all places in which water is furnished for business consumption, and it is authorized thereto by resolution or ordinance of the board of aldermen, in all apartment houses, tenements, flat-houses and private dwellings * * *."

Substantially, therefore, the revenues from meters represent water consumed for business purposes, while the revenues from frontage rates are mainly derived from water consumed for domestic purposes.

It is perhaps somewhat remarkable that the revenue from water meters in the Borough of Brooklyn should show a decrease of \$7,701.82. A reason advanced which might account for this decrease, is the removal of commercial establishments from that borough to the Borough of Queens. It would, however, appear to be very important that steps be taken to determine without doubt, the precise cause of such decrease. The Borough of Manhattan, which produces by far the largest amount of this class of revenue, shows a considerable gain, of 4.96 per cent, over that of the preceding year (1913), but the amount received in the Borough of Queens has increased by no less than \$41,604.42, or 14.64 per cent, over that of the year 1913.

It is generally conceded that the use of meters, in computing water charges, is more satisfactory, if not also more profitable, than Frontage Rates or other fixed charges. In the report of the Commission on New Sources of City Revenue, dated January 11, 1913, it is stated:

"A wider use of meters would greatly increase the revenues derived from the city's water service."

The question of additional metering is taken up later in this report.

The quantity of water metered, as compared with the total consumption, works out at 26.32 per cent., but if the number of accounts open on the books at December 31, 1914, be taken as the basis, it would then work out at 28.63 per cent. The meters in use in the various boroughs at that date were distributed as follows:

Borough.	Meters in Use.
Manhattan	52,764
Brooklyn	26,181
The Bronx	7,520
Queens	7,657
Richmond	4,746

Total meters installed (Dec. 31, 1914)

Article 2, Chapter 25, of the Code of Ordinances provides, under section 22, that "the charge for water measured by meter shall be 10 cents per 100 cubic feet." This is the equivalent of \$1.00 per 1,000 cubic feet, or 7,480.5 gallons, \$133.68 per million gallons, and \$0.1337 per thousand gallons.

The rates for metered water charged by the private water companies operating within the limits of The City of New York vary somewhat, some of them, as in the case of the Queens County Water Company and the Citizens' Water Supply Company, being established on a sliding scale. The charges in the former instance are here given:

Queens County Water Company—Meter Rates.

First 40,000 gallons, 30 cents per 1,000 gallons.

Next 40,000 gallons, 25 cents per 1,000 gallons.

All above 450,000 gallons, 20 cents per 1,000 gallons.

Comparing the charges made for metered water by The City of New York and those of certain of the private companies operating within its limits, the maximum and minimum rates taken from the printed bills appear as follows:

Company.	Rate Per 1,000 Gallons.	
	Highest.	Lowest.
(1) The City of New York	\$0.1337	\$0.1337
(2) Queens County Water Company	0.30	0.20
(3) Citizens' Water Supply Company	0.40	0.1333
(4) Flatbush Water Works Company	0.1337	0.1337
(5) Jamaica Water Supply Company	0.15	0.15
(6) Woodhaven Water Supply Company	0.1337	0.1337

These rates for metered water are probably based on different conditions, such as the amount of pumpage necessitated, etc. Certain companies also charge minimum rates. It will be seen that in two of the cases quoted the rates are the same as those charged by the city. To compare the equity of these charges fully, however, the frontage and fixed rates should also be taken into consideration in each instance given.

2. Frontage Rates, \$6,139,327.97.

This figure, for 1914, is \$153,478.41, or 2.57 per cent. in excess of the frontage rate revenues of 1913. The number of frontage rate accounts on the books of the department increased from 245,466 on December 31, 1913, to 246,407 at the end of 1914, a net increase of 941 accounts. The water revenues from this source by boroughs were:

Borough.	Frontage Rate Revenues.		Increase.	Percentage of Increase.
	1914.	1913.		
Manhattan	\$2,767,415 96	\$2,722,659 53	\$44,756 43	1.64
Brooklyn	2,172,304 75	2,136,789 48	35,515 27	1.66
The Bronx	983,711 05	921,101 81	62,609 24	6.80
Queens	115,534 79	109,717 72	5,817 07	5.30
Richmond	100,361 42	95,581 02	4,780 40	5.00
Totals	\$6,139,327 97	\$5,985,849 56	\$153,478 41	2.57

According to the federal method of estimating the population between census years, the total increase of \$153,478.41 here shown was accompanied by an increase in population of 134,651, distributed by boroughs as follows:

Borough.	Population, July 1, 1914.	Population, July 1, 1913.	Increase.
Manhattan	2,536,725	2,487,968	48,757
Brooklyn	1,833,700	1,786,330	47,370
The Bronx	529,177	505,843	23,334
Queens	339,890	326,619	13,271
Richmond	94,045	92,126	1,919
Totals	5,333,537	5,198,886	134,651

If these population estimates are to be relied upon as approximately correct, the increase in frontage rates in the Borough of The Bronx would appear to be out of all proportion to that in the remaining boroughs. This is probably due to the growing residential section of that borough.

Chapter 25, Article 2, of the Code of Ordinances, provides, under Section 20, that "the annual frontage rents on premises wholly or partly unmetered * * * shall be as follows, to wit:

Frontage Width of Building.	One Story.
16 feet and under	\$4 00
16 feet to 18 feet	5 00
18 feet to 20 feet	6 00
20 feet to 22½ feet	7 00
22½ feet to 25 feet	8 00
25 feet to 30 feet	10 00
30 feet to 37½ feet	12 00
37½ feet to 50 feet	14 00

For each additional story one dollar (\$1.00) shall be added; and for each additional 10 feet or part thereof, above 50 feet in front width of building, \$2.00 shall be added."

In reference to these frontage rates the Department of Water Supply, Gas and Electricity states:

"Revenues may reasonably be expected to increase under present frontage rates, which apply to vacant buildings as well as occupied property and penalize the detached and semi-detached dwellings of the suburbs, which are likely to increase in relative numerical importance as the city spreads out under rapid transit influences."

In addition to the frontage rents there are numerous miscellaneous rates charged where the supply is not metered. These include such charges as those for baths, water closets, bakeries, fish stands, barges without steam, laundries, liquor and lager beer saloons, milk depots, soda and mineral water fountains, florists, photograph galleries, dentists' fountains, etc., etc. The details relative to the charges will be found in the section of the Code of Ordinances referred to.

3. Water for Miscellaneous Purposes, \$251,231.91.

The revenues from this source, for 1914, compared with those for 1913, are:

	1914.	1913.	Increase or *Decrease.	Percentage of Increase or *Decrease.
Building Purposes	\$180,818 32	\$181,779 10	*\$960 78	*.53
Shipping	46,220 66	43,982 66	2,238 00	5.08
Street Sprinkling	4,867 31	5,372 32	*505 01	*9.40
Hose Permits	19,325 62	9,835 00	9,490 62	96.50
Totals	\$251,231 91	\$240,969 08	\$10,262 83	1.89

Building Purposes—This includes mainly the water used in connection with the stone, brick and plaster for construction work. The decrease of \$960.78 in the revenues for 1914 is probably due to the general depression in the building trades.

Shipping—Under this head come the revenues from water sold to steam lighters, tugboats, steam yachts, barges, water boats, etc.

Street Sprinkling—These revenues represent water sold for private sprinkling carts in residential districts.

Hose Permits—The revenues from this source increased \$9,490.62 from \$9,835 in 1913 to \$19,325.62 in 1914, or 96.50 per cent. The increases by boroughs were:

Borough.	Revenue.		Increase.	Percentage of Increase.
	1914.	1913.		
Manhattan	\$6,850 00	\$3,530 00	\$3,320 00	94.00
Brooklyn	8,255 62	4,785 00	3,470 62	72.53
The Bronx	2,665 00	910 00	1,755 00	192.86
Queens	685 00	195 00	490 00	251.30
Richmond	870 00	415 00	455 00	109.64
Totals	\$19,325 62	\$9,835 00	\$9,490 62	96.50

While this increase is very gratifying, it is doubtful whether, even now, the City is receiving anything like what it should receive from these permits. The charge made by the City for each hose permit is \$5, so that the revenue from this source in 1914, namely, \$19,325.62, represented about 3,865 permits issued. Inquiry at the Flatbush Water Works Company, which supplies part of the residential section of Brooklyn, elicits the information that on May 1, 1915, the hose permits granted by that corporation numbered about 1,200, for which a charge was made of \$10 for each permit. This is a little less than one-third of the total number of permits issued for the whole of the City of New York by the Department of Water Supply, Gas and Electricity.

4. Other Miscellaneous Revenues, \$20,566.92.

The revenues from this source for 1914, as stated above, were \$9,189.05 in excess of like revenues of 1913. These revenues are detailed below:

	1914.	1913.	Increase or *Decrease.
Sale of Ashes	\$1,624 00	\$892 75	\$731 25
Sale of Old Materials	16,137 56	8,454 62	7,682 94
Pole License Fees	1,764 33	2,030 50	*266 17
Unenumerated	1,041 03	.....	1,041 03
Totals	\$20,566 92	\$11,377 87	\$9,189 05

Comparisons, so far as these figures are concerned, are of little value, as they do not represent a regular income.

Sale of Ashes. These ashes are from the various pumping stations.

Sale of Old Materials. This represents accumulated junk from equipment and old materials at storage points.

Pole License Fees.—The department makes a small initial charge for telegraph and telephone poles placed by private parties on the property of the city under the department's jurisdiction, and a small annual charge per pole thereafter.

Unenumerated. In this are included charges of \$3 each for locating underground taps for plumbers, subpoena fees, etc. Similar receipts for 1913 were not segregated.

5. Penalties, \$252,647.17.

The penalties on deferred payments of water charges are set forth in section 476 of the City Charter, reading in part as follows:

"Sec. 476. Annual frontage rates and extra and miscellaneous charges for water not metered shall be due and payable in advance on the first day of January in each year if entered; and if not paid to or received by the department before the close of the last business day of the following March, shall be subject to a penalty of five per centum, and if not paid to or received by the department before the close of the last business day of the following June, to a further penalty of ten per centum. * * * Meter charges, including charges for the supply of water by meter and the expense of meters, their installation, connections, setting and maintenance, shall be due and payable when entered, and such charges when entered in any quarter of a year shall, after the mailing before or upon the close of such quarter, of notice stating the amount due and the nature of the charge to the last known address of the person whose name appears on the record of such charges as being the owner, occupant or agent, or where no name appears, to the premises addressed to 'owner or occupant,' be subject, if not paid to or received by the department before the close of the last business day of the next quarter, to a penalty of five per centum, and if not paid to or received by the department before the close of the last business day of the next succeeding quarter, to a further penalty of ten per centum. * * *

The penalties imposed for 1914, and the percentage they bear to the total revenues are shown in the following table:

Borough.	Amount of Meter Rate Penalties.	Percentage of Penalty to Total Meter Rates.	Amount of Frontage Rate Penalties.	Percentage of Penalty to Total Frontage Rates.
Manhattan	\$56,825 14	1.36	\$61,309 06	2.22
Brooklyn	24,350 49	1.62	62,658 93	2.88
The Bronx	5,576 60	1.43	26,219 79	2.67
Queens	5,291 07	1.62	4,072 53	3.53
Richmond	2,044 65	1.61	4,298 91	4.28
Totals	\$94,087 95	1.44	\$158,559 22	2.58

The meter and frontage rates in arrears turned over to the Comptroller for collection in 1913 and 1914 were:

	1914.	1913.	Increase.	Percentage of Increase.
Arrears (Meter Rates)	\$420,293 10	\$255,053 49	\$165,239 61	64.78
Arrears (Frontage Rates)	526,537 41	412,306 45	114,230 96	27.70

Prior to the amendment of section 476 of the Charter (Laws of 1912, chapter 527), the fiscal year of the department was from May 1st to April 30th. The section of the Charter referred to made the fiscal year correspond with the calendar year. The arrears in the frontage rates at January 1, 1913, therefore represented the arrears of only eight months' business as against the arrears of twelve months' business on January 1, 1914. No satisfactory explanation of the increase in the arrears in meter rates was offered by the department, but it has been suggested that unfavorable business conditions were largely accountable. It is further explained that no special effort is made to collect these charges, which are liens against the premises.

EXPENDITURES.

6. General Administration, \$273,222.89.

The expenditures for this item for 1913 were \$3,779.46 less than the figure above. The details below show the increases and decreases in the sub-functions included under the above caption:

	1914.	1913.	Increase or *Decrease.
Executive, Office of Commissioner and Deputy Commissioners	\$126,453 14	\$120,065 28	\$6,387 86
Audit and Accounts, Auditing Bureau	57,175 10	55,455 80	1,719 30
Purchase and Storage of Supplies, Bureau of Supplies and Storehouses	48,484 26	56,114 37	*7,630 11
General, Motor Vehicles (undistributed)	41,110 39	37,807 98	3,302 41
Totals	\$273,222 89	\$269,443 43	\$3,779 46

The details entering into these increases and decreases are discussed below:

Executive.

	1914.	1913.	Increase or *Decrease.
Operation.			
Salaries and Wages	\$81,896 50	\$85,116 69	*\$3,220 19
Supplies, etc.	2,043 20	2,409 09	*\$365 89
Miscellaneous	39,139 68	31,771 18	7,368 50
Totals	\$123,079 38	\$119,296 96	\$3,782 42

Statement of Cost and Mileage of Automobiles and Motor Trucks.

Particulars.	Automobiles.			Motor Trucks.		
	1914.	1913.	Increase or *Decrease.	1914.	1913.	Increase or *Decrease.
Automobile Cars and Trucks Owned	26	24	2	7	5	2
Automobile Cars and Trucks in Use	26	21	5	7	5	2
Total Cost of Operation and Maintenance	\$26,942 63	\$31,020 10	*\$4,077 47	\$12,260 03	\$6,787 88	\$5,472 15
Cost per Car or Truck in Use	\$1,036 25	\$1,477 15	*\$440 90	\$1,751 43	\$1,357 58	\$393 85
Number of Miles Run	151,151	173,739	*22,588	41,894	27,000	14,894
Average Number of Miles Run for each Car or Truck	5,814	8,273	*2,459	5,985	5,400	585
Average Number of Miles Run per Car or Truck for Day (300 days in the year)	19.38	27.58	*8.20	19.95	18.00	1.95
Average Cost per Mile not including Depreciation	\$0.178	\$0.178		\$0.293	\$0.251	\$0.042
Average Wages Paid to Drivers on 20 Cars and 7 Trucks in 1914, and 15 Cars and 5 Trucks in 1913	\$764 75	\$918 58	*\$153 83	\$1,325 71	\$988 80	\$336 91

In addition to the motor vehicles above scheduled, in August, 1914, twelve "Ford" cars with express bodies attached were purchased for use as service cars. The cost of operating these twelve cars for nearly five months, less salaries and storage, was \$1,508.83, during which time they traveled 42,616 miles, or about 3.54 cents per mile.

It will be observed that while the total and unit costs for operation and maintenance of automobiles has materially decreased for 1914, these costs for motor trucks have considerably increased.

Despite the use of five additional automobiles in 1914, the number of miles run was 22,588 less than in 1913, or 2,459 miles less for each car. This is reflected in the average day's run, which shows a decrease of 8.20 miles per car.

The number of miles covered by motor trucks in 1914, shows an increase of 14,894. Multiplying this by the 1914 rate per mile, namely \$0.293, the additional cost should have been about \$4,360.00 instead of \$5,472.15, as shown. The increase in the average wages paid for 1914, largely accounts for this additional expenditure.

As regards the cost of "General Administration," stated at \$273,222.89 for 1914, the cost of executive control, purchase of stores, etc., and cost of running motor vehicles have not been apportioned between the water supply and these overhead charges for gas and electricity. It has been estimated that approximately one-third would be chargeable to the Bureau of Gas and Electricity, or about \$55,000.

	1914.	1913.	Increase or *Decrease.
Maintenance.			
Labor	\$265 35	\$238 45	\$26 90
Materials and Supplies	219 32	283 13	*63 81
Contract or Open Order	1,083 48	246 74	836 74
Totals	\$1,568 15	\$768 32	\$799 83
Purchase of Equipment	\$1,805 61		\$1,805 61
Grand Totals	\$126,453 14	\$120,065 28	\$6,387 86

The only large increase above, it will be noted, is Operation, Miscellaneous, \$7,368.50, made up chiefly of larger expenditures for postage, special services and incidentals.

Audit and Accounts.

	1914.	1913.	Increase or *Decrease.
Operation.			
Salaries and Wages	\$55,298 57	\$51,568 17	\$3,730 40
Supplies	857 53	334 43	523 10
Miscellaneous	606 44	2,755 07	*2,148 63
Totals	\$56,762 54	\$54,657 67	\$2,104 87
Maintenance.			
Labor		\$8 25	*\$8 25
Materials and Supplies		449 43	*449 43
Contract or Open Order	\$46 36	340 45	*294 09
Totals	\$46 36	\$798 13	*\$751 77
Purchase of Equipment	\$366 20		\$366 20
Grand Totals	\$57,175 10	\$55,455 80	\$1,719 30

The increases in the above items are for Salaries and Wages, \$3,730.40; Supplies and Equipment, \$889.30, a total of \$4,619.70. This increase would seem to be justified by the increased amount of statistical work done by the department. There were decreases in other items under this caption aggregating \$2,900.40, leaving the net increase at \$1,719.30.

Purchase and Storage of Supplies.

	1914.	1913.	Increase or *Decrease.
Operation.			
Salaries and Wages	\$46,512 90	\$47,815 69	*\$1,302 79
Supplies	570 17	1,150 79	*580 62
Miscellaneous	414 86	25 00	389 86
Totals	\$47,497 93	\$48,991 48	*\$1,493 55
Maintenance.			
Labor	\$840 20	\$6,585 09	*\$5,744 89
Materials and Supplies	42 92	471 25	*428 33
Contract or Open Order	103 21	66 55	36 66
Totals	\$986 33	\$7,122 89	*\$6,136 56
Grand Totals	\$48,484 26	\$56,114 37	*\$7,630 11

While this statement shows a net decrease of \$7,630.11 from an expenditure in 1913 of \$56,114.37, much the larger part of the decrease is due to work out of the ordinary done in 1913 in connection with the stores distribution.

General, Motor Vehicle Service.

	1914.	1913.	Increase or *Decrease.
Operation.			
Salaries and Wages	\$24,575 05	\$18,722 75	\$5,852 30
Supplies, etc.	4,234 86	3,911 83	323 03
Miscellaneous	397 99	392 14	5 85
Totals	\$29,207 90	\$23,026 72	\$6,181 18
Maintenance.			
Labor	\$4,288 31	\$4,628 27	*\$339 96
Materials and Supplies	6,564 15	7,225 38	*\$661 23
Contract or Open Order	1,050 03	2,927 61	*1,877 58
Totals	\$11,902 49	\$14,781 26	*\$2,878 77
Grand Totals	\$41,110 39	\$37,807 98	\$3,302 41

The following figures are taken from or deduced from statistics furnished by the Department of Water Supply, Gas and Electricity:

Automobiles.			Motor Trucks.		
1914.	1913.	Increase or *Decrease.	1914.	1913.	Increase or *Decrease.
26	24	2	7	5	2
26	21	5	7	5	2
\$26,942 63	\$31,020 10	*\$4,077 47	\$12,260 03	\$6,787 88	\$5,472 15
\$1,036 25	\$1,477 15	*\$440 90	\$1,751 43	\$1,357 58	\$393 85
151,151	173,739	*22,588	41,894	27,000	14,894
5,814	8,273	*2,459	5,985	5,400	585
19.38	27.58	*8.20	19.95	18.00	1.95
\$0.178	\$0.178		\$0.293	\$0.251	\$0.042
\$764 75	\$918 58	*\$153 83	\$1,325 71	\$988 80	\$336 91

7. Water Supply, \$3,053,661.68.

This expenditure, for 1914, shows the substantial net decrease as compared with the 1913 expenditures, of \$364,835.47. The details of these expenditures follow:

	1914.	1913.	Increase or *Decrease.
Administration	\$93,289 46	\$90,771 50	\$2,517 96
Collection and Storage System	419,535 04	442,002 64	*\$22,467 60
Pumping	1,644,911 87	1,736,521 28	*\$91,609 41
Distribution	706,009 17	808,280 78	*\$102,271 61
Fire Hydrant Rentals	124,000 00	111,243 64	12,756 36
Analyzing and Testing, Laboratories	31,291 73	40,151 77	*\$8,860 04
Undistributed, Machine Shops and Stables	34,624 41	38,906 03	*\$4,281 62
Purchased Water	†.....	150,619 51	*150,619 51
Totals	\$3,053,661 68	\$3,418,497 15	*\$364,835 47

†There are bills outstanding for 1914, some of them in dispute, aggregating \$31,494.85.

These figures are shown in greater detail below:
Administration.

	1914.	1913.	Increase or *Decrease.
Operation.			
Salaries and Wages	\$83,341 81	\$77,448 71	\$5,893 10
Supplies, etc.	1,674 80	3,044 23	*1,369 43
Miscellaneous	5,960 74	10,044 72	*4,083 98
Totals	\$90,977 35	\$90,537 66	\$439 69
Maintenance.			
Labor	\$891 63	.....	\$891 63
Materials and Supplies	217 65	.....	217 65
Contract or Open Order	655 10	233 84	421 26
Totals	\$1,764 38	\$233 84	\$1,530 54
Purchase of Equipment	\$547 73	.....	\$547 73
Grand Totals	\$93,289 46	\$90,771 50	\$2,517 96

The principal increase noted above is "Salaries and Wages, \$5,893.10," which is comprised in the following tabulation:

	1914.	1913.	Increase or *Decrease.
Salaries and Wages.			
Administrative	\$27,012 25	\$28,583 68	*\$1,571 43
Engineers and Assistants	25,986 21	18,941 57	7,044 64
Draughtsmen	6,531 06	5,049 14	1,481 92
Inspectors	955 59	3,058 22	*2,102 63
Clerks and Stenographers	20,955 32	20,200 77	754 55
Telephone Operators	712 50	93 75	618 75
Attendants and Messengers	1,188 88	50 00	1,138 88
Water Waste Investigation .....	.....	1,471 58	*1,471 58
Totals	\$83,341 81	\$77,448 71	\$5,893 10

The chief decrease in "Operation, Miscellaneous, \$4,083.98" is made up as follows:

	1914.	1913.	Increase or *Decrease.
Miscellaneous.			
Traveling	\$1,906 62	\$2,431 47	*\$524 85
Hire of Vehicles and Drivers	1,851 46	1,746 34	105 12
Special Services	17 15	189 56	*172 41
Incidentals	2,185 51	5,677 35	*3,491 84
Totals	\$5,960 74	\$10,044 72	*\$4,083 98

The principal increases in the above analysis are for salaries and wages of engineers and assistants, \$7,044.64, and the chief decrease is in miscellaneous incidentals, \$3,491.84. No information was at hand in the Department explanatory of either of these changes, nor as to the character of the expenses included under "Incidentals."

Collection and Storage System.

	1914.	1913.	Increase or *Decrease.
Operation.			
Salaries and Wages	\$136,289 87	\$146,227 22	*\$9,937 35
Supplies, etc.	39,225 50	33,003 30	6,222 20
Special Contracts	1,210 15	7,157 97	*5,947 82
Miscellaneous	19,115 03	23,264 24	*4,149 21
Totals	\$195,840 55	\$209,652 73	*\$13,812 18
Maintenance.			
Labor	\$207,531 52	\$201,241 22	\$6,290 30
Materials and Supplies	13,369 53	20,900 77	*7,531 24
Contract or Open Order	1,133 25	10,207 92	*9,074 67
Totals	\$222,034 30	\$232,349 91	*\$10,315 61
Purchase of Equipment	1,660 19	.....	1,660 19
Grand Totals	\$419,535 04	\$442,002 64	*\$22,467 60

The principal increases were in "Operation, Supplies, etc.," and in "Maintenance, Labor." The details are:

	1914.	1913.	Increase or *Decrease.
Operation, Supplies, Etc.			
Purifiers, Disinfectants and Chemicals....	\$30,863 60	\$26,242 82	\$4,620 78
Fuel	5,205 93	3,249 72	1,956 21
Tools and Implements	1,047 99	2,348 24	*1,300 25
Office Supplies	42 10	195 38	*153 28
Draughting Supplies	2 00	12 86	*10 86
Other	2,063 88	954 28	1,109 60
Totals	\$39,225 50	\$33,003 30	\$6,222 20

	1914.	1913.	Increase or *Decrease.
Maintenance, Labor.			
Aqueducts	\$41,526 57	\$50,165 33	*\$8,638 76
Reservoirs, Dams, etc.	92,763 28	84,955 17	7,808 11
Wells	24,280 21	15,175 82	9,104 39
Infiltration Galleries, etc.	286 06	291 82	*5 76
Bridges and Similar Structures	3,389 67	1,007 02	2,382 65
Roads and Crossings	2,625 25	5,207 47	*2,582 22
Fences	6,770 87	16,244 12	*9,473 25
Buildings and Dwellings	10,486 72	12,144 04	*1,657 32
Telephone Lines	1,097 50	1,151 00	*53 50
Apparatus	838 75	182 26	656 49
Equipment	1,103 30	.....	1,103 30
Basins	3,750 40	2,256 20	1,494 20
Machinery and Plant	3,849 03	3,706 52	142 51
Miscellaneous	14,763 91	8,754 45	6,009 46
Totals	\$207,531 52	\$201,241 22	\$6,290 30

The principal increases in the foregoing labor items are for:

Reservoirs, Dams, etc.	\$7,808 11
Wells	9,104 39
Miscellaneous	6,009 46

Pumping—Low Pressure.

	1914.	1913.	Increase or *Decrease.
Operation.			
Salaries and Wages	\$638,470 53	\$670,081 45	*\$31,610 92

	1914.	1913.	Increase or *Decrease.
Supplies, etc.	556,725 84	527,439 30	29,286 54
Special Contracts (Lighting)	13,902 33	12,004 21	1,898 12
Totals	\$1,209,098 70	\$1,209,524 96	*\$426 26
Maintenance.			
Labor	\$89,508 63	\$121,943 69	*\$32,435 06
Materials and Supplies	32,687 17	29,486 14	3,201 03
Contract or Open Order	45,137 48	80,785 98	*35,648 50
Totals	\$167,333 28	\$232,215 81	*\$64,882 53
Overhead (work undistributed)	\$34,781 16	\$47,512 08	*\$12,730 92
Grand totals	\$1,411,213 14	\$1,489,252 85	*\$78,039 71

	1914.	1913.	Increase or *Decrease.
Operation.			
Salaries and Wages	\$73,809 44	\$76,236 51	*\$2,427 07
Supplies, etc.	22,286 72	26,248 96	*3,962 24
Power (electric current and gas)	132,182 24	129,958 26	2,223 98
Totals	\$228,278 40	\$232,443 73	*\$4,165 33

	1914.	1913.	Increase or *Decrease.
Maintenance.			
Labor	\$897 87	\$3,030 25	*\$2,132 38
Materials and Supplies	706 30	2,442 31	*1,736 01
Contract or Open Order	3,045 64	6,688 78	*3,643 14
Totals	\$4,649 81	\$12,161 34	*\$7,511 53
Overhead (undistributed)	\$770 52	\$2,663 36	*\$1,892 84
Grand Totals	\$233,698 73	\$247,268 43	*\$13,569 70

Total Cost, Low Pumping	\$1,411,213 14	\$1,489,252 85	*\$78,039 71
Total Cost, High Pumping	233,698 73	247,268 43	*\$13,569 70
Total Cost of Low and High Pressure Pumping	\$1,644,911 87	\$1,736,521 28	*\$91,609 41

The cost of pumping (low pressure), stated at \$1,411,213.14, represents 10.71 per cent. of the total expenditures for 1914, as compared with 11.68 for the year 1913. It is 5.23 per cent. less than the cost in 1913, being a decrease of \$78,039.71. The only large increase in the low pressure pumping costs appears under "Supplies, etc.," \$29,286.54. This is brought about by an increase in the cost of fuel, from \$513,548.29 in 1913 to \$540,645.10 in 1914, or \$27,096.81, and about \$2,000 in the cost of lubricants.

The quantity and cost of coal purchased during the two years are stated as follows:

Year.	Coal Purchased (Gross Tons).	Total Cost.	Average Cost per Gross Ton.
1913	153,677	\$513,548 29	\$3.342
1914	164,591	\$40,645 10	3.285

Additional quantity of coal purchased and cost (1914)	10,914	\$27,096 81	†\$0.057
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†Decrease in average price.

While the quantity of coal purchased increased by approximately 11,000 gross tons, the average price paid per ton declined by nearly six cents. The highest and lowest prices paid per gross ton within the past two years are here given:

Quality of Coal.	1913—Prices (Gross Ton).		1914—Prices (Gross Ton).	
	Highest.	Lowest.	Highest.	Lowest.
No. 1 Buck	\$4 38	\$3 39	\$3 79	\$3 19
No. 3 Buck	2 60	2 33	3 04	2 35
Soft	4 40	3 25	4 30	3 40

The quantity of water pumped, including that which was repumped to a higher level, averaged 441.5 million gallons daily in all Boroughs, or a total of about 161,297 millions of gallons during the year. The total cost of pumping a million gallons of water is shown in the following tabulation based on the municipal daily supply of pumped water.

Borough.	Total Cost, Including Overhead Undistributed.	Cost per Day.	Pumped, Municipal Supply (M. G. D.).	Cost of Pumping a Million Gallons.
Manhattan and The Bronx	\$223,530 59	\$612 41	103	\$5 94
Brooklyn	957,773 51	2,624 04	*142	18 48
Queens	58,936 04	161 47	6.5	24 84
Richmond	170,973 00	468 42	11.7	40 03

Total

*Note—This figure includes 7.7 million gallons daily furnished to the Borough of Queens from the Brooklyn system.

The total quantity of pumped water consumed per annum on the basis of the daily supply above stated would amount to 96,068 million gallons. This represents 51.85 per cent. of the total supply, exclusive of the water furnished by the private companies, all of which is pumped. If, therefore, we also include the total amount of water furnished by the private corporations, which in 1914 was 13,468.5 million gallons, the ratio of water pumped to the total annual consumption would then amount to about 55 per cent., the remaining 45 per cent. being supplied by gravity.

For the purpose of gauging the comparative efficiency of the pumping stations in each borough the following tabulation has been prepared, showing the average cost of raising a million gallons one foot for the two years 1914 and 1913, respectively:

Borough.	Expenditure	Average Lift (Feet).	Million Foot Gallons.	Average Cost of Raising a Million Gallons Per Foot (Cents).
Manhattan and The Bronx	\$223,530 59	115.1	4,304,026	.0519
Brooklyn	957,773 51	107.0	12,520,414	.0764
Queens	58,936 04	218.1	489,946	.1203
Richmond	170,973 00	266.0	1,225,405	.1395
All Boroughs	\$1,411,213 14	114.9	18,539,791	.0761

	1914.	1913.	Increase or *Decrease.
Year 1913.			
Manhattan and The Bronx	\$219,715 54	113.2	3,758,318
Brooklyn	1,032,524 44	103.9	11,047,022
Queens	72,383 14	207.5	328,518
Richmond	164,629 73	275.9	1,212,761
All Boroughs	\$1,489,252 85	112.4	16,346,619

The foregoing statement indicates that the cost of raising a million gallons one foot is very much greater in the boroughs of Queens and Richmond. It is stated, however, that the larger stations in Brooklyn and Manhattan are equipped with high-duty pumps, which are not only much larger but more efficient. It is to be expected that the daily pumpage of the large quantities of water used in the three boroughs referred to would be more economically conducted than in the boroughs of Queens and Richmond, where the pumping plants are comparatively small.

As to the extent, if any, to which it may be necessary to continue pumping when water is obtainable from the Esopus watershed at the rate of 250 million gallons daily, through the new Catskill aqueduct, the Commissioner of the Department of Water Supply, Gas and Electricity made, on June 8, 1915, the following statement: "When the new Catskill system is in actual operation long enough to demonstrate that it is not only a completed structure, but a working machine, it would supersede the pumping system now in use in Brooklyn, certain of the main stations being maintained ready for operation in case of emergency and manned sufficiently to make a nucleus of a force to start up these stations should occasion require. This would be the condition until the demands of the city made it necessary or desirable to again augment the supply by pumping the ground water from the Brooklyn watershed."

Figures dealing with this situation are given later in this report, showing an estimate of the amount of water it will be necessary to pump at the dates when the Esopus and Schoharie water is expected to be available.

High Pressure Stations—For Fire Service.

The cost of operating and maintaining the high pressure stations, stated at \$233,698.73, was reduced in 1914, as compared with the previous year, by \$13,659.70. Inasmuch, as the cost of this function must continue, whether fires take place or not, no advantage will be here gained by comparing the costs of high pressure pumping, but the following tabulation has been prepared for the purpose of comparing the average unit cost of operating and maintaining fire hydrants in the Boroughs of Manhattan and Brooklyn for the years 1913 and 1914.

Borough.	No. of Hydrants.	Expenditures.	Average Cost per Hydrant.	Per Cent. of Cost.
Manhattan	2,372.	\$144,456 25	\$60 90	58.42
Brooklyn	1,370	102,812 18	75 05	41.58
Totals	3,742	\$247,268 43	\$66 08	100.00
Year 1914.				
Manhattan	2,751	\$136,379 88	\$49 57	58.35
Brooklyn	1,370	97,318 85	71 03	41.65
Totals	4,121	\$233,698 73	\$56 71	100.00

From this it will be seen that the average cost of operating and maintaining high-pressure fire service has varied during the two-year period from \$49.57 to \$75.05 per hydrant, and that the average cost in both boroughs has been reduced from \$66.08 in 1913 to \$56.71 per hydrant in 1914.

The following statistics in relation to the high-pressure fire service are given for purposes of record:

Particulars.	Borough		Totals.
	Manhattan.	Brooklyn.	
Number of Alarms Received	1,998	506	2,504
Number of Times Service Used	988	226	1,214
Number of Million Gallons Pumped (Fires)....	124.4	5.2	129.6
Number of Million Gallons Pumped (Tests)...	15.2	16.2	31.4

The high-pressure system has of late years become a very important function of the Department of Water Supply, Gas and Electricity, as a ready force for extinguishing fires. There are two high-pressure service stations in Manhattan, one at Oliver and South Streets, and the other at Gansevoort and West Streets. Two other stations are located in Brooklyn at Furman and Jarolemon Streets, and at Wiloughby and St. Edwards' Streets, with a fifth station at 12th Street and Neptune Avenue, Coney Island. In 1914 an addition was made to the high-pressure system in Manhattan by a station between 23rd and 34th Streets, the Hudson River and Madison Avenue, comprising some 550 acres.

The present system cost about \$6,100,000 for stations, land, mains and appurtenances. The property protected covers about 7,285 acres, or 11.38 square miles. The cost per acre of protecting this property in the two Boroughs during the year 1914 is approximately stated as follows:

Borough.	Total Cost.	Area Protected (Acres).	Cost per Acre.
Manhattan	\$136,379 88	3,712	\$36 74
Brooklyn	97,318 85	3,573	28 09
Totals	\$233,698 73	7,285	\$32 07

In view of the fact that the area located in Manhattan is considerably greater than in the Borough of Brooklyn, it is probable that if the values of such properties, exclusive of land values, were to be accurately determined this would afford a more satisfactory basis for making cost comparison than the one here given.

Distribution, Exclusive of High Pressure System.

	1914.	1913.	Increase or *Decrease.
Operation.			
Salaries and Wages	\$310,894 82	\$371,419 51	*\$60,524 69
Supplies, etc.	15,318 98	24,016 43	*8,697 45
Miscellaneous	16,918 76	55,642 70	*38,723 94
Totals	\$343,132 56	\$451,078 64	*\$107,946 08
Maintenance.			
Labor	\$262,009 67	\$244,364 98	\$17,644 69
Materials and Supplies	48,548 19	76,345 58	*27,797 39
Contract or Open Order	51,980 63	36,491 58	15,489 05
Totals	\$362,538 49	\$357,202 14	\$5,336 35
Purchase of Equipment	\$338 12	.....	\$338 12
Grand Totals	\$706,009 17	\$808,280 78	*\$102,271 61

These expenses for distribution show a decrease of \$102,271.61, or 14.48 per cent. of the cost for 1913. The increases which appear under Maintenance, Labor, \$17,644.69, and Contract or Open Order Service, \$15,489.05, are further analyzed as follows:

	1914.	1913.	Increase or *Decrease.
Maintenance, Labor.			
Mains and Appurtenances.....	\$142,127 59	\$124,580 63	\$17,546 96
Fire Hydrants and Connections.....	89,415 15	90,198 34	*783 19
Fountains, Troughs and Miscellaneous....	26,799 20	25,523 97	1,275 23
Buildings and Grounds.....	1,631 16	2,601 89	*970 73
Apparatus	1,408 32	1,130 05	278 27
Office Equipment	628 25	330 10	298 15
Totals	\$262,009 67	\$244,364 98	\$17,644 69

	1914.	1913.	Increase or *Decrease.
Maintenance—Contract or Open Order Service.			
Mains and Appurtenances.....	\$47,975 76	\$29,212 76	\$18,763 00
Fire Hydrants and Connections.....	3,124 26	5,330 35	*2,206 09
Fountains, Troughs and Miscellaneous....	139 48	255 16	*115 68
Buildings and Grounds.....	263 59	904 77	*641 18
Apparatus	136 89	552 37	*415 48
Office Equipment	340 65	236 17	104 48
Totals	\$51,980 63	\$36,491 58	\$15,489 05

The foregoing analysis indicates that the two increases referred to occur almost entirely under the caption of Mains and Appurtenances. It is stated that in the year 1913 the payroll charges were incorrectly distributed as between "Maintenance" and "Operation." In 1914 a more efficient analysis of the payroll was made but it would not be possible to go back and make the desired changes for 1913 at the present time.

Below is a comparison of the costs per thousand of population served in 1913 and 1914 in the different boroughs of the City; also the square miles of territory served therein, and the population served per square mile.

	Total Population.	Population Served.	Total Cost of Distribution.	Cost per Thousand of Population Served.
Manhattan and The Bronx.....	3,065,914	3,065,914	\$356,185 45	\$116 17
Brooklyn	1,833,694	1,679,916	283,990 07	169 04
Queens	339,386	112,287	38,029 37	339 55
Richmond	94,045	94,045	27,804 28	295 79
Totals	5,333,539	4,952,162	\$706,009 17	\$142 57

	Total Population.	Population Served.	Total Cost of Distribution.	Cost per Thousand of Population Served.
1913.				
Manhattan and The Bronx	2,993,821	2,993,821	\$391,844 07	\$130 87
Brooklyn	1,786,325	1,637,734	332,713 58	203 12
Queens	326,616	109,640	52,759 58	479 63
Richmond	92,126	92,126	30,963 55	336 56
Totals	5,198,888	4,833,321	\$808,280 78	\$167 24

	Cost of Distribution Per Thousand of Population Served by Department.	Increase or *Decrease.	Square Miles Served by Department.	Population Per Square Mile Served by Department.
	1914.	1913.		
Manhattan and The Bronx	\$116 17	\$130 87	*\$14 70	60.25
Brooklyn	169 04	203 12	*34 08	72.84
Queens	339 55	479 63	*140 08	38.04
Richmond	295 79	336 56	*40 77	57.19

Comparison of the expenditures for distribution in each borough, taken separately, illustrates that the cost per thousand of the population served by the department is very much less in the Boroughs of Manhattan and The Bronx, particularly, as compared with the Boroughs of Queens and Richmond. It will, however, be noted from the last table that the population served per square mile in these two boroughs is very insignificant as compared with that of the others.

The following statistics, based on the annual cost of maintaining each mile of main and each hydrant, and the total cost per mile, including all expenditures of the distribution system for the two years 1913 and 1914, in all boroughs, are here given for comparison and future record.

	1914.	1913.	Increase or *Decrease.
Manhattan and The Bronx—			
Average cost per mile of main.....	\$75 10	\$69 32	\$5 78
Average cost per hydrant.....	2 06	2 73	*67
Average cost per mile of distribution system	246 99	274 79	*27 80
Brooklyn—			
Average cost per mile of main.....	74 67	69 82	4 85
Average cost per hydrant.....	2 00	3 58	*1 58
Average cost per mile of distribution system	271 13	322 88	*51 75
Queens—			
Average cost per mile of main.....	80 79	123 30	57 49
Average cost per hydrant.....	3 17	2 67	50
Average cost per mile of distribution system	178 32	249 40	*71 08
Richmond—			
Average cost per mile of main.....	38 04	36 13	1 91
Average cost per hydrant.....	1 38	2 24	*86
Average cost per mile of distribution system	114 55	134 40	*19 85
All Boroughs—			
Average cost per mile of main.....	72 33	65 55	6 78
Average cost per hydrant.....	2 52	3 04	*52
Average cost per mile of distribution system	239 69	278 89	*39 20

†Note—The cost of maintaining each mile of main appears to have increased in all boroughs, particularly in the Borough of Queens. This is accounted for by the statement previously made as to the distribution of payroll, which implies that the 1913 figure stated at \$23.30 per mile of main in that borough was incorrectly established.

Fire Hydrant Rentals—Special Contracts.

The distribution service has two main functions, namely, those of providing for private consumption and municipal usage, which latter includes fire protection, street washing, etc. Inasmuch as most of the fire hydrants in the Borough of Queens and in the 29th Ward in the Borough of Brooklyn are the property of the private water corporations, which rent them out annually to the city, such fire hydrant rentals are not included as part of the cost of distribution.

The cost of fire hydrant rentals in the Boroughs of Brooklyn, Queens and Richmond for the years 1913 and 1914 have been included in the departmental expense accounts as follows:

	1914.	1913.	Increase or *Decrease.
Brooklyn	\$30,000 00	\$30,000 00	.....
Queens	94,000 00	80,973 64	\$13,026 36
Richmond .....	.....	270 00	*270 00
Totals	\$124,000 00	\$111,243 64	\$12,756 36

The total expenditures for 1914 were shown at \$124,000, were based on the budget appropriation. However, the actual charges paid up to April 8, 1915, for that year were \$121,180.78, and it is stated that additional small claims have yet to be presented. It further appears that this item in the 1913 expense accounts was understated by about \$5,000 and that the precise amounts since paid for the two periods were as follows:

Company.	Number of Hydrants.		Charges.		Increase or Decrease
	1914.	1913.	1914.	1913.	
Woodhaven Water Supply Co.	948	937	\$16,967 35	\$16,556 13	\$411 22
Jamaica Water Supply Co....	2,002	1,954	36,036 00	34,771 50	1,264 50
Citizens' Water Supply Co....	1,343	1,275	25,872 99	24,760 31	1,112 68
Queens County Water Co....	632	563	12,304 44	10,260 00	2,044 44
South Shore Water Co. of Staten Island		18		270 00	*270 00
Flatbush Water Works Co....			130,000 00	30,000 00	
Totals			\$121,180 78	\$116,617 94	\$4,562 84

†This amount, which represents a flat rate, covers water, not only for hydrants, but for municipal institutions, excepting county hospitals.

Analyzing and Testing (Laboratories).

	1914.	1913.	Increase or Decrease.
Operation.			
Salaries and Wages	\$25,227 45	\$28,450 71	*\$3,223 26
Supplies, etc.	1,447 27	5,835 76	*4,388 49
Miscellaneous	2,279 88	2,991 10	*711 22
Totals	\$28,954 60	\$37,277 57	*\$8,322 97
Maintenance.			
Labor	\$247 81	\$732 60	*\$484 79
Materials and Supplies	144 95	228 74	*83 79
Contract or Open Order	1,079 02	1,912 86	*833 84
Totals	\$1,471 78	\$2,874 20	*\$1,402 42
Purchase of Equipment	865 35		865 35
Grand Totals	\$31,291 73	\$40,151 77	*\$8,860 04

Under each caption of expense for "Analyzing and Testing" a decrease has taken place for 1914 in the items here shown, except for "Purchase of Equipment." The work of analyzing and testing is done at Mount Prospect, Brooklyn, and Mount Kisco, in the Croton watershed, where a small branch is maintained.

Undistributed—Machine Shops.

	1914.	1913.	Increase or Decrease.
Operation.			
Salaries and Wages	\$9,771 83	\$7,086 74	\$2,685 09
Supplies, etc.	3,116 54	2,525 89	590 65
Miscellaneous	18 59	239 99	*221 40
Totals	\$12,906 96	\$9,852 62	\$3,054 34
Maintenance.			
Labor	\$2,119 97	\$3,493 33	*\$1,373 36
Materials and Supplies	1,167 45	2,368 83	*1,201 38
Contract or Open Order	137 25	300 93	*163 68
Totals	\$3,424 67	\$6,163 09	*\$2,738 42
Totals (Shops)	\$16,331 63	\$16,015 71	\$315 92

The increase of \$2,685.09 in Salaries and Wages represents shop labor and the increase of \$590.65 in Supplies, etc., is due mainly to increased expenditures for fuel.

Undistributed—Stables.

	1914.	1913.	Increase or Decrease.
Operation.			
Salaries and Wages	\$7,502 86	\$12,964 27	*\$5,461 41
Supplies, etc.	5,829 45	6,161 85	*332 40
Miscellaneous	3,058 55	606 75	2,451 80
Totals	\$16,390 86	\$19,732 87	*\$3,342 01
Maintenance.			
Labor	\$123 05	\$402 95	*\$279 90
Materials and Supplies	98 14	562 59	*464 45
Contract or Open Order	1,383 23	2,191 91	*808 68
Totals	\$1,604 42	\$3,157 45	*\$1,553 03
Purchase of Equipment	\$297 50		\$297 50
Totals (Stables)	\$18,292 78	\$22,890 32	*\$4,597 54
Totals, Shops and Stables	\$34,624 41	\$38,906 03	*\$4,281 62

The main increase in the expenditures for the above items was in "Operation, Miscellaneous, \$2,451.80." This was wholly due to a change in the distribution of the expenses, corresponding items in 1913 having been charged to another account.

Purchased Water.

The expenditures for water purchased in 1913, aggregating \$150,619.51, were mainly to augment the water supply in Queens Borough. By the connection of the Brooklyn water mains with those of Queens preliminary to the introduction of the new Catskill supply, it was possible to use water from the Brooklyn reservoirs and thereby to eliminate in large measure similar charges for 1914. It was, however, necessary to purchase some water, and there were outstanding on December 31, 1914, although not included in the department's accounts, claims of the following companies, aggregating \$31,494.85:

Queens County Water Company	\$15,460 59
Urban Water Supply Company	7,434 00
Citizens' Water Supply Company	6,577 50
Flatbush Water Works Company	2,022 76
Total	\$31,494 85

Recoverable Expenses.

Under this caption are included expenditures in 1914 of \$66,993.98, and in 1913 of \$53,929.65. These expenditures were as follows:

	1914.	1913.	Increase.
Tapping Charges	\$32,493 69	\$31,896 19	\$597 50
Off and On Charges	9,983 11	7,372 57	2,610 54
Miscellaneous	24,517 18	14,660 89	9,856 29
Totals	\$66,993 98	\$53,929 65	\$13,064 33

Included in the above are:

	1914.	1913.	Increase or Decrease.
Charges for Labor	\$62,970 82	\$50,816 78	\$12,154 04
For Material and Supplies	4,023 16	2,874 76	1,148 40
Contract or Open Order		238 11	*238 11
Totals	\$66,993 98	\$53,929 65	\$13,064 33

These recoverable expenses are omitted from the operation and maintenance expenses of the department on the presumption that they are actually recoverable. They represent work done for private parties, and the cost of doing such work for each person; the amount billed to him, the amount collected thereupon, and the amount unpaid should be readily ascertainable from the accounts of the department. Those accounts do not, however, supply this information, and it is stated that it can be arrived at only by a lengthy analysis of the departmental records. There appears to be little doubt that a large part of these expenditures are lost to the city, with the exception of tapping charges, which, it is stated, are payable in advance. It is understood that steps were taken in 1915 to put this matter upon a creditable basis.

8. Water Revenue Collection, \$660,569.24.

The expenditures in connection with this item in 1914, as given above, fall short of those of 1913 for the same purpose by \$28,020.81, and are stated as follows:

	1914.	1913.	Increase or Decrease.
Administration	\$284,633 69	\$297,168 58	*\$12,534 89
Inspection:			
General	327,319 36	340,316 08	*12,996 72
Meter Testing Stations	43,147 64	45,993 50	*2,845 86
Patrol Boat	5,468 55	5,111 89	356 66
Totals	\$660,569 24	\$688,590 05	*\$28,020 81

The specific accounts which show the total decrease of \$12,534.89 are:

	1914.	1913.	Increase or Decrease.
Salaries and Wages	\$270,848 80	\$281,597 68	*\$10,748 88
Supplies, etc.	1,048 31	5,255 58	*4,207 27
Miscellaneous, including Traveling, Supper Money, etc.	5,681 94	9,365 38	*3,683 44
Repairs and Replacements	2,658 80	949 94	1,708 86
Purchase of Equipment	4,395 84		4,395 84
Totals	\$284,633 69	\$297,168 58	*\$12,534 89

The increases for 1914 in the cost of Repairs and Replacements, \$1,708.86, and Equipment, \$4,395.84, are attributed to the removal of the offices of the Department in that year to the Municipal Building.

In view of the fact that this expense of administration amounts to over a quarter of a million dollars, it may be profitable to compare the two years, 1913 and 1914, by Boroughs:

	1914.	1913.	Increase or Decrease.
Manhattan and The Bronx	\$155,848 95	\$167,085 57	*\$11,236 62
Brooklyn	87,565 84	87,227 31	338 53
Queens	22,754 31	23,786 30	*1,031 99
Richmond	18,464 59	19,069 40	*604 81
Totals	\$284,633 69	\$297,168 58	*\$12,534 89

From this it is seen that practically all of this economy was effected in the Boroughs of Manhattan and The Bronx.

The cost of "Inspection, General, Water Revenue Collection," which also decreased by \$12,996.72, is here tabulated:

	1914.	1913.	Increase or Decrease.
Salaries and Wages	\$315,480 24	\$331,568 95	*\$16,088 71
Supplies, etc.	825 56	1,036 06	*210 50
Miscellaneous, including Hire of Horses, Vehicles, etc.	10,713 75	7,702 97	3,010 78
Repairs and Replacements	256 41	8 10	248 31
Purchase of Equipment	43 40		43 40
Totals	\$327,319 36	\$340,316 08	*\$12,996 72

The decrease in the cost of "Salaries and Wages," \$16,088.71, is accounted for by a reduction in the inspection force. The item included under this caption for "Foreman and Laborers," also decreased from \$28,979.07 in 1913, to \$21,468.37 in 1914, a difference of \$7,510.60, or 25.93 per cent.

Comparison by boroughs of the cost of inspection again proves that by far the largest reduction occurred in the Boroughs of Manhattan and The Bronx:

	1914.	1913.	Increase or Decrease.
Manhattan and The Bronx	\$151,409 40	\$164,613 82	*\$13,204 42
Brooklyn	128,442 16	129,908 33	*1,466 17
Queens	25,986 20	21,238 05	4,748 15
Richmond	21,481 60	24,555 88	*3,074 28
Totals	\$327,319 36	\$340,316 08	*\$12,996 72

Examination of the detailed statements submitted shows that the additional cost which appears in the Borough of Queens, \$4,748.15, is chiefly due to an increase under "Inspectors" amounting to \$7,521.25 in 1914.

The cost of meter-testing stations shows a decrease of \$2,845.86, which is accounted for under "Salaries and Wages." The other expenses, including the cost of running the patrol boat, are small.

9. Taxes.

The figures exhibited by the department in its 1913 and 1914 statements for taxes levied by various towns upon the properties owned by the city in its several watersheds are the appropriations made for this purpose for the years mentioned, inasmuch as the taxes actually levied were not, in many instances, known until after the close of the year against which they are chargeable.

The amounts included in the 1913 and 1914 budgets for taxes and the amount of charges ascertained at the time of the preparation of this report are here stated.

	1914.	1913.
Budget Allowance	\$200,000 00	\$195,800 00
Charges Accrued at Time of Preparation of Report	210,120 61	225,516 10

The values placed by many of the towns upon the city's properties for tax purposes have often been unduly heavy in comparison with the values placed upon other properties of like nature in the same localities, and steps have been taken by the city to have a number of these assessments reduced. It is asserted that of late years assessments on property located in Nassau, Westchester and Putnam counties have unduly increased. Certiorari proceedings have been instituted and are pending to have the assessments reduced relative to landed and structural property in the towns of Yonkers, Cortland, Bedford, Somers, Carmel and South East; also for landed property in other towns located in Westchester and Putnam counties. In Nassau County a reduction of \$2,169,000 has been requested for each of the past six years.

IV. Valuation of Fixed Assets of the Present Water Supply System, Including Landed and Non-Landed Property.

Inasmuch as the value of all landed and non-landed property was established for the first time in the year 1914, when a full appraisal was made (at the request of the Department of Finance) by Mr. I. M. De Verona, formerly Chief Engineer of the Department of Water Supply, Gas and Electricity, it may be well to explain here the basis of such valuation, which amounted to no less than \$226,315,900.00 as at December 31, 1913. The justification for this course is the more apparent when it is stated that the book value represented by this large figure has not heretofore been set up and adjusted from year to year. It also appears that the actual expenditures repre-

sending the cost of all land, plant and machinery, etc., are at considerable variance with the appraisal submitted by the chief engineer, who, in a communication, dated June 22, 1914, addressed to Mr. William Williams, Commissioner of the Department of Water Supply, Gas and Electricity, stated as follows:

"It is understood that the value which the Comptroller refers to as the 'present worth' is the reproduction cost new, less depreciation as of December 31, 1913. * * *

"No allowance has been made for interest during construction, although prop-

erty it should be included. It would amount, on structures alone (and therefore including land), to somewhat over \$17,000,000."

The valuation referred to, which includes all property appertaining to the old water supply system, has since been arranged in summary from a statement that follows to show the various classes of property. This gives the depreciation rates established and the amount of depreciation written off for 1914, plus all additions to property during that year, adjusting the total value of all property to December 31, 1914, at \$227,237,027.46.

Property as at December 31, 1913, and December 31, 1914.

Class of Property.	Valuation December 31, 1913.	Annual Depreciation		Net Amount.	Additions During 1914.	Valuation December 31, 1914.
		Rate.	Amount.			
Non-Landed Property— Including Collection and Storage System, Reservoirs, Wells, Infiltration Galleries, Water Filtration Plants, Sewage Disposal Plants, Chlorinating Plants, etc.	\$76,112,100 00	1%	\$761,121 00	\$75,350,979 00	\$36,108 45	\$75,387,087 45
Pumping (Buildings)— Low Pressure	2,492,200 00 }	2%	56,088 00	2,748,312 00	27,594 52	2,775,906 52
High Pressure	312,200 00 }					
	\$2,804,400 00					
Pumping (Machinery)— Low Pressure	\$2,658,600 00 }	5%	156,965 00	2,982,335 00	71,475 39	3,053,810 39
High Pressure	480,700 00 }					
Total Pumping	\$3,139,300 00					
Distribution— Low Pressure— Mains and Appurtenances	\$46,909,100 00	1%	469,091 00	46,440,009 00	1,973,339 25	48,413,348 25
Valves	2,097,700 00	2%	41,954 00	2,055,746 00	117,727 02	2,173,473 02
Hydrants and Connections	1,617,800 00	2%	32,356 00	1,585,444 00		1,585,444 00
Buildings	208,000 00	2%	4,160 00	203,840 00		203,840 00
Totals (Low Pressure)	\$50,832,600 00		\$547,561 00	\$50,285,039 00	\$2,091,066 27	\$52,376,105 27
High Pressure— Mains and Appurtenances	\$6,012,200 00	1%	\$60,122 00	\$5,952,078 00		\$5,952,078 00
Hydrants and Connections	488,000 00	2%	9,760 00	478,240 00		478,240 00
Valves	1,059,000 00	2%	21,180 00	1,037,820 00		1,037,820 00
Totals (High Pressure)	\$7,559,200 00		\$91,062 00	\$7,468,138 00		\$7,468,138 00
Totals, Distribution	\$58,391,800 00		\$638,623 00	\$57,753,177 00	\$2,091,066 27	\$59,844,243 27
General— Buildings, Etc.	\$32,000 00	1%	\$320 00	\$31,680 00	\$113,840 51	\$145,520 51
Totals, Non-Landed Property	\$140,479,600 00		\$1,613,117 00	\$138,866,483 00	\$2,340,085 14	\$141,206,568 14
Totals, Landed Property	85,836,300 00			85,836,300 00	194,159 32	86,030,459 32
Totals, Fixed Capital	\$226,315,900 00		\$1,613,117 00	\$224,702,783 00	\$2,534,244 46	\$227,237,027 46

Note—Rates for Depreciation have been taken from an article on "Depreciation," which appeared in the "Journal of the New England Water Works Association," December, 1910.

The total valuation as at December 31, 1913, included appreciation through unearned increment on landed property and also allows for all property withdrawn from service and makes deductions for depreciation, obsolescence, inadequacy, waste and natural wear and tear, etc.

During the year 1913 an investigation was made by the Bureau of Municipal Investigation and Statistics to discover what were the actual capital expenditures paid out from corporate stock funds on all property under the jurisdiction of the Department of Water Supply, Gas and Electricity, as at December 31, 1913. The total expenditures determined by this investigation have since been summarized and adjusted to include the 1914 figures and are here stated:

SUMMARY STATEMENT SHOWING THE TOTAL COST OF THE WATER SUPPLY SYSTEM OF THE CITY OF NEW YORK.

Old and New Croton Systems, Bronx and Byram, prior to 1898.....	\$86,359,562 09
City of Brooklyn, prior to 1898.....	24,411,249 76
Long Island City, prior to 1898.....	469,109 25
Village of Flushing prior to 1898.....	330,074 29
Village of College Point, prior to 1898.....	247,803 89
Village of Whitestone, prior to 1898.....	95,206 91
Village of Tottenville, prior to 1898.....	34,019 87
Department of Water Supply, Gas and Electricity, after 1898.....	54,748,822 48
Aqueduct Commission, after 1898.....	30,052,122 49
Commission of Engineers, after 1898.....	190,758 53

Total cost of old system to December 31, 1914.....

Add Total cost of new system (Board of Water Supply), to

December 31, 1914

Total cost of combined systems to December 31, 1914... \$319,949,187 18

No distinction is here made between the cost of landed and non-landed property, but the total valuation to December 31, 1914, as compared with the stated cost of the old water supply system is then shown to be as follows:

Estimated valuation to December 31, 1914..... \$227,237,027 46

Estimated cost to December 31, 1914..... 196,938,729 56

Net appreciation of property to December 31, 1914

Bearing in mind the large appreciation which has taken place in land values in New York City during the past fifty or sixty years, there would appear to be no reasonable objection to accepting the general accuracy of the figures presented, for the purpose of establishing on the books of the Department of Water Supply, Gas and Electricity a full statement of all landed and non-landed property belonging to the City under its jurisdiction.

In the several boroughs there are in use forty-seven low-pressure pumping stations; and, in connection with the fire system, five high-pressure pumping stations are maintained. These high-pressure stations afford protection to 7,285 acres.

The following additional information relative to the extent and capacity of New York's entire present water supply system as at December 31, 1914, is taken from statistics furnished by the Department of Water Supply, Gas and Electricity:

Total cast-iron pipe, 6-in. to 60 in. (miles)	2,846.43
Additional high-pressure mains (miles).....	172.39
Number of Hydrants in use.....	43,397
Number of Hydrants in use (high pressure).....	4,121
Area protected by High Pressure (square miles).....	11.38
Number of stop gates in use.....	60,713
Total consumption for the year 1914 in millions of gallons:	
Municipal system	185,273.5
Private systems	13,468.5

Total million gallons consumed

Municipal water metered, 1914, millions of gallons

Total meters in use, December 31, 1914.....

V. Interest During Construction of the Catskill Water Supply System.

The cost of interest during construction of the Catskill water supply system up to December 31, 1914, is approximately as follows:

Year of Issue.	Amount of Bonds Issued.	Annual Interest.	Total Interest to Dec. 31, 1914.
1905	\$115,000 00	\$3,450 00	\$31,050 00

Year of Issue.	Amount of Bonds Issued.	Annual Interest.	Total Interest to Dec. 31, 1914.
1906	820,000 00	25,600 00	204,800 00
1907	2,026,500 00	83,462 50	612,013 75
1908	4,282,000 00	186,565 00	1,132,890 00
1909	10,361,626 99	398,544 81	2,025,724 05
1910	19,658,060 25	727,864 14	3,106,433 49
1911	26,398,932 48	1,111,117 13	3,484,226 39
1912	22,939,880 28	1,010,822 96	2,527,057 39
1913	6,713,622 71	302,113 02	365,592 78
1914	18,156,377 29	771,646 03	385,823 02
Totals	\$111,472,000 00	\$4,621,185 59	\$13,875,610 87

The above does not include the total amount of corporate stock notes issued and outstanding at December 31, 1914, amounting to \$11,120,000 00, the interest charges payable thereon dating from irregular periods of issue at varying rates of interest.

In reference to the payment of the interest charges on the redemption of such bonds issued, Chapter 724 of the laws of 1905, since amended by Chapter 438 of the laws of 1907, reads, in part, as follows:

"Such corporate stock shall be deemed to be bonds to provide for the supply of water within the meaning of section ten of article eight of the Constitution of the State of New York, and, in accordance with the provisions of said section, a sinking fund shall be created * * * by raising annually by taxation a sum which will produce an amount equal to the sum of the principal and interest of said corporate stock at its maturity."

It is common practice on well-established commercial principles to charge all interest during construction to capital account. The chief reason for so doing is that until construction is completed no revenues or profits are forthcoming to pay such interest. However, the section of the law above quoted would seem to provide for the payment of interest currently from taxation and may be construed to inhibit the issue of bonds for such purposes.

VI. Depreciation of Fixed Assets of the Present Water Supply System.

In order to correctly gauge the cost of water to the consumer it is maintained that, instead of charging an account equal to the annual cost of amortization of all bonds outstanding of the water supply system, a more accurate method would be to base such a charge on an amount calculated to offset the estimated cost of depreciation which takes place each year on the water supply plant.

It is submitted that the amount set aside each year for sinking fund purposes has no relation whatever to the life of all non-landed property, as described in the foregoing tabulation, and that this is merely a financial arrangement which has been subjected to various fluctuations in past years.

The main obstacle to be encountered in setting aside annually out of revenues a sum equal to the estimated amount of depreciation lies in the provisions of the Greater New York Charter in reference to the payment of water revenues into the sinking funds.

Section 242 of the Charter gives the Board of Estimate and Apportionment power "to appropriate from time to time for the maintenance, improvement and extension of the system of water supply of the Borough of Brooklyn, the moneys received from water rents in said Borough." Whether the word "maintenance" could here be interpreted for fund purposes, as including depreciation, is problematical. Had the Brooklyn pumping and distribution plants been fully maintained in the past, depreciation would already have been provided for annually, except that no special fund would thereby have accumulated to provide for final obsolescence, inadequacy, etc.

All the expenditures of the remaining four Boroughs are paid out of tax levy appropriations. The situation, then, is this: If depreciation could be provided for directly from the water revenues the cost would be met by the consumer of water; but if an additional appropriation were to be included in the annual budget, this would only increase the tax levy to that extent, thereby defeating the main intent of setting up such a fund, which, if established, would have the effect of equalizing the annual cost of maintenance and would also assist as a correct basis for making future water rates.

Whether depreciation of the plant of a publicly owned utility is necessary or desirable appears to have been the theme of much discussion by the officials of various municipalities. Certain public service commissions have recently laid much stress on the importance of making adequate provisions for depreciation. There is no guarantee that the city will always be in a position to spend large sums of

money in periodically renewing the water supply plant. If many pumping stations in Long Island should be retained as a reserve, while not in use, they must certainly deteriorate very rapidly.

The fact that the matter of depreciation has not received greater attention in the past is probably due more to the lack of assurance that future administrations would continue a wise policy and not use the funds to meet other expenditures, than to the general recognition that to make provision by setting aside a specified sum annually is both sound and correct.

The question as to the desirability of establishing such a fund under the somewhat peculiar circumstances described as existing here, is of course open to discussion;

Department of Water Supply, Gas and Electricity—Statement of Water Bonds Outstanding, Old and New Systems.

Source of Bond Redemption.	Total Amount of Bonds and Corporate Stock Notes Outstanding.	Old System.		New System Exempt.
		Exempt.	Non-Exempt.	
Payable from the Water Sinking Fund of the City of New York, under the provisions of section 10, article 8, of the Constitution of the State of New York and section 208 of the Greater New York Charter.....	\$195,025,272 84	\$54,819,219 96	\$28,734,052 88	\$111,472,000 00
Payable from the Sinking Fund for the Redemption of the City Debt under the provisions of section 229 of the Greater New York Charter.....	650,000 00	.....	650,000 00	.....
Payable from the Sinking Fund for the Redemption of the City Debt No. 1, under the provisions of section 213 of the Greater New York Charter.....	445,000 00	.....	445,000 00	.....
Payable from the Sinking Fund for the Redemption of the City Debt No. 2, under the provisions of section 10, article 8, of the Constitution of the State of New York and section 208 of the Greater New York Charter.....	4,782,500 00	.....	4,782,500 00	.....
Payable from the Water Sinking Fund of the City of Brooklyn under the provisions of chapter 396 of the Laws of 1852 and acts amendatory thereof and supplementary thereto	2,283,749 76	.....	2,283,749 76	.....
Payable from the Sinking Fund of Long Island City for the Redemption of Water Bonds under the provisions of section 10, article 8 of the Constitution of the State of New York	179,000 00	.....	179,000 00	.....
Payable from taxation, Village of Flushing.....	18,000 00	.....	18,000 00	.....
Payable from water revenue, Village of College Point.....	59,000 00	.....	59,000 00	.....
Payable from water revenue, Village of Whitestone.....	61,500 00	.....	61,500 00	.....
Payable from taxation, Village of Tottenville.....	14,400 00	.....	14,400 00	.....
Total bonds outstanding, December 31, 1914.....	\$203,518,422 60	\$54,819,219 96	\$37,227,202 64	\$111,472,000 00
Add Corporate stock notes issued in anticipation of the sale of corporate stock to provide for the supply of water.....	12,313,977 41	1,193,977 41	.....	11,120,000 00
Totals	\$215,832,400 01	\$56,013,197 37	\$37,227,202 64	\$122,592,000 00

The total disbursements of the Board of Water Supply are given in the report of that board for the year ended December 31, 1914, and amount to \$123,010,457.62. The difference between this figure and the total bonded indebtedness of the Catskill system, shown in the foregoing statement at \$122,592,000.00, is represented by the difference between vouchers passed upon at that date and the actual expenditures from proceeds of bonds and corporate stock notes issued. The details of these expenditures will be found in the annual report of the Board of Water Supply referred to.

VIII. Estimated Future Supply of Water from All Sources as Compared with the Estimated Consumption.

With a view to giving an approximate idea of what the future daily supply and consumption of water in this city may be, the following table has been prepared, showing the safe yield from all sources, as compared with the estimated consumption, both before and after the Esopus and Schoharie water is procurable. The table covers the years 1917 to 1940, inclusive, and the population estimates are taken on the federal basis of increase explained, namely, 134,651 annually. The per capita consumption, 102 gallons daily, is the same as that of 1914.

Statement Showing Estimated Present and Future Supply (Safe Yield) and Consumption of Water Covering the Years 1917 to 1940, Inclusive. Based on Actual Consumption for 1914 of 102 Gallons Per Capita Daily.

Year.	Estimated Population (Increase of 134,651).	Estimated Consumption (Based on 102 Gal. per capita Daily).	Estimated Safe Yield (Million Gal. Daily).					Total Supply Required to Meet Consumption (M.G.D.).
			Croton, Bronx and Byram.	Esopus Watershed.	Schoharie Watershed.	Pumping in Brook, Queens and Richmond.	Surplus Above Safe Yield (M.G.D.).	
1917....	5,737,492	585	338	250	.....	10	3	585
1918....	5,872,143	598	338	250	.....	10	.....	598
1919....	6,006,794	613	338	250	.....	25	.....	613
1920....	6,141,445	626	338	250	.....	38	.....	626
1921....	6,276,096	640	338	250	.....	52	.....	640
1922....	6,410,747	654	338	250	.....	66	.....	654
1923....	6,545,398	667	338	250	.....	79	.....	667
1924....	6,680,049	681	338	250	.....	93	.....	681
1925....	6,814,700	695	338	250	.....	107	143	695
1926....	6,949,351	709	338	250	.....	121	129	709
1927....	7,084,002	723	338	250	.....	135	115	723
1928....	7,218,653	736	338	250	.....	149	102	736
1929....	7,353,304	750	338	250	.....	163	88	750
1930....	7,487,955	763	338	250	.....	177	75	763
1931....	7,622,606	777	338	250	.....	191	61	777
1932....	7,757,257	791	338	250	.....	205	47	791
1933....	7,891,908	805	338	250	.....	219	33	805
1934....	8,026,559	819	338	250	.....	233	19	819
1935....	8,161,210	832	338	250	.....	247	6	832
1936....	8,295,861	846	338	250	.....	261	8	846
1937....	8,430,512	860	338	250	.....	275	.....	860
1938....	8,565,163	874	338	250	.....	289	.....	874
1939....	8,699,814	887	338	250	.....	303	.....	887
1940....	8,834,465	900	338	250	.....	317	.....	900

In reference to this statement it should be clearly understood that the basis chosen for the population and consumption estimates cannot be otherwise than arbitrary. It is quite possible that the per capita consumption may fluctuate very considerably instead of remaining at the 1914 average of 102 gallons a day. Previous variations have been irregular and, as has been shown above, the per capita consumption of the year 1910 was 110 gallons daily.

There is reason to believe that, when the Catskill supply is turned on, the additional pressure in the mains will cause a marked increase in consumption. On the other hand, if the plan of universal metering should be adopted this might result in a reduced consumption.

In the tabulation referred to no consideration is given to any available supply from the private water companies, a point too uncertain for any reliable estimate. In 1914 the supply from this source averaged between 36 and 37 millions of gallons daily. The possible future necessity of supplying certain towns and villages in Westchester County, as provided by Section 40, Chapter 724, of the Laws of 1905, is another incalculable element.

It will be observed that the table begins with an estimated surplus of gravity water in 1917 of but three million gallons above the safe yield, followed by seven years when pumping must be resorted to, even after 250 million gallons of water daily are delivered from the Esopus watershed. By 1925 the supply of water from the Schoharie watershed is expected to become available, resulting in an excess supply of 143 million gallons of water daily for that year.

During the ten years following, however (1926 to 1935), this large surplus supply gradually diminishes through the growth of population and consumption, so that by 1936 pumping is again necessitated and continues until 1940. It is estimated that by that time the daily consumption will have reached no less than 900 million gallons, the quantity of water then required to be pumped being stated at 62 million gallons a

but it would seem that in arriving at the actual cost of water sold to the consumer, the correct method would be to include a charge for annual depreciation, in the place of the cost of amortization of bonds outstanding, irrespective of whether a fund were actually established or not.

VII. Water Bonds Outstanding Dec. 31, 1914, Both Systems.

A statement has been prepared, for the first time, showing all bonds of the water supply system outstanding on December 31, 1914, and distinguishing between those bonds which are outside of the city debt limit and those which are included as non-exempt. This statement also gives the sinking fund sources from which the bonds are payable as they fall due:

Total Amount of Bonds and Corporate Stock Notes Outstanding.	Old System.		New System Exempt.
	Exempt.	Non-Exempt.	
Payable from the Water Sinking Fund of the City of New York, under the provisions of section 10, article 8, of the Constitution of the State of New York and section 208 of the Greater New York Charter.....	\$54,819,219 96	\$28,734,052 88	\$111,472,000 00
Payable from the Sinking Fund for the Redemption of the City Debt under the provisions of section 229 of the Greater New York Charter.....	.....	650,000 00	.....
Payable from the Sinking Fund for the Redemption of the City Debt No. 1, under the provisions of section 213 of the Greater New York Charter.....	.....	445,000 00	.....
Payable from the Sinking Fund for the Redemption of the City Debt No. 2, under the provisions of section 10, article 8, of the Constitution of the State of New York and section 208 of the Greater New York Charter.....	.....	4,782,500 00	.....
Payable from the Water Sinking Fund of the City of Brooklyn under the provisions of chapter 396 of the Laws of 1852 and acts amendatory thereof and supplementary thereto .....	.....	2,283,749 76	.....
Payable from the Sinking Fund of Long Island City for the Redemption of Water Bonds under the provisions of section 10, article 8 of the Constitution of the State of New York .....	.....	179,000 00	.....
Payable from taxation, Village of Flushing.....	.....	18,000 00	.....
Payable from water revenue, Village of College Point.....	.....	59,000 00	.....
Payable from water revenue, Village of Whitestone.....	.....	61,500 00	.....
Payable from taxation, Village of Tottenville.....	.....	14,400 00	.....
Total bonds outstanding, December 31, 1914.....	\$54,819,219 96	\$37,227,202 64	\$111,472,000 00
Add Corporate stock notes issued in anticipation of the sale of corporate stock to provide for the supply of water.....	1,193,977 41	.....	11,120,000 00
Totals	\$56,013,197 37	\$37,227,202 64	\$122,592,000 00

day, or a little more than one-third of the present pumping capacity in the Boroughs of Brooklyn, Queens and Richmond, namely, 170 million gallons daily. This, as explained, it is intended to reduce as soon as the Catskill supply is in working order and may be relied upon.

IX. Capital Expenditures, Old and New, and the Financial Returns Therefrom.

Inasmuch as the annual charges for interest and amortization of both the old water system and the new one are practically fixed, any improvement in net returns from the new system or from the combined old and new systems must necessarily arise out of reductions in the cost of operation and maintenance or out of increased revenues, or both. The need for the very careful handling of the finances of the water supply system becomes strikingly apparent when we consider the cost of the new Catskill system which it is expected to put in operation by 1917.

In considering the estimated financial returns it must be borne in mind that water supply plants are necessarily built largely with the view of meeting future needs, and are therefore not fully remunerative until the demand for water corresponds with their full capacity.

In working out the future financial returns on capital invested, as compared with the year 1914, the years 1918 and 1925 have been selected in order to include the full amount of annual expenditures of both the Esopus and the Schoharie watersheds, although it is anticipated that the first 250 million gallons daily supply from the Esopus watershed will be available at the beginning of 1917. The interest and amortization charges are applied on the bonds expected to be outstanding in the years referred to.

The following estimates pertain to the water supply system for 1918:
Gross Revenues (based on per capita contribution of \$2.66 for 1914)..... \$15,619,900 00
Expenses—Operation and maintenance of combined systems (based on per capita cost of 84 cents for 1914)..... 4,932,600 00

Net Income from operation (making no allowance for depreciation)..... \$10,687,300 00
The investment from which this income arises is estimated approximately as follows:

Old System as per valuation of the Department of Water Supply, Gas and Electricity, adjusted to Dec. 31, 1914..... \$227,237,027 00

New System:
Bonds estimated outstanding Dec. 31, 1918..... 140,000,000 00
Future extensions (four years)..... 4,000,000 00
Interest on bonds during construction..... 23,932,424 00

Total estimated value of plant, Dec. 31, 1918..... \$395,169,451 00

†Note—The interest charges during construction have thus far been paid out of tax levies but are here included for the purpose of determining the full cost of the watershed and aqueduct.

On the basis shown the percentage of net income in 1918 from operation upon the capital invested is but 2.70 per cent. On the same basis of calculation the capital investment per million gallons of daily use or waste (estimated for 1918 at 598) would be \$660,818.00.

Considering next the year 1925, when the construction of the Schoharie is expected to be fully completed, the following estimates are made:
Gross Revenue (based on per capita contribution of \$2.66 for 1914)..... \$18,127,102 00
Expenses—Operation and maintenance of combined systems (based on per capita cost of 84 cents for 1914)..... 5,724,348 00

Net Income from operation (making no allowance for depreciation)..... \$12,402,754 00

The estimated value of the entire system at the end of 1925 is, then, as follows:

Valuation of plant as estimated above..... \$395,169,451 00
Construction of Schoharie plant, including two additional siphons... 26,175,400 00
Additional extensions (distribution)..... 6,000,000 00
Interest on bonds issued for Schoharie plant, etc..... 6,589,125 00

Total estimated value of plant at Dec. 31, 1925..... \$433,933,976 00

The ratio to this valuation of the net income from operation in 1925 is 2.86 per cent. Based on the estimated consumption for 1925 namely, 695 million gallons daily, the capital outlay for daily use or waste works out at \$624,365.00.

These comparatively meagre returns have been set forth largely for the purpose of emphasizing the importance of employing every practicable means of augmenting them, and on this point certain suggestions are made at the conclusion of this report.

If from the net operating income for the year 1925 there should be deducted the estimated charges for interest and amortization, there would result an estimated net deficit of \$181,741.00, as under:

Net income from operations (1925)..... \$12,402,754 00
Interest charges..... \$10,225,078 00
Amortization charges..... 2,359,417 00

Net Deficit excluding depreciation, etc..... \$181,741 00

From this it will be seen that, on the basis of these estimates, even when the full supply of water, amounting to 500 million gallons daily, becomes available from the Catskill Aqueduct, the water supply system will not be self-sustaining.

The cost per million gallons of actual consumption, for operation and maintenance of the water supply system in 1914, as compared with the estimated figures of 1918 and 1925, is here scheduled:

Year.	Total Cost of Operation and Maintenance, Only.	Millions of Gallons of Water Consumed.	Cost Per Million Gallons.
1914	\$4,187,454 00	185,273	\$22 60
1918	4,932,600 12	218,270	22 60
1925	5,724,348 00	253,675	22 60

If to these costs the charges for interest and amortization of all bonds outstanding in each year be added, we have a greatly increase cost per million gallons of water consumed.

Year.	Total Cost of Operation and Maintenance, Including All Interest and Amortization Charges.	Millions of Gallons of Water Consumed.	Cost Per Million Gallons.
1914	\$15,468,809 00	185,273	\$83 49
1918	16,465,776 32	218,270	75 44
1925	18,308,843 00	253,675	72 17

The revenues of the Department from all sources, but substantially from water sold, work out at \$71.14 per million gallons for the year 1914. It will be seen, therefore, that in no one instance at any of the three periods referred to does the cost per million gallons work out at a lesser figure than the amount received on the 1914 basis.

The decrease in cost of operation for 1918 and 1925 arises from the fact that the amount of water consumed increases at a higher rate than the interest and amortization charges on the bonds, some of the bonds of the old system having been redeemed.

No savings, through reduction in the cost of pumping, have been considered in the above calculations, as much must necessarily depend on conditions uncertain until the new supply is forthcoming.

Bureau of Gas and Electricity—Functions Performed and Expenditures Incurred Relative to the Lighting of Streets, Parks and Bridges, Lighting and Heating of Public Buildings and Power for City Departments, Etc.

In conformity with the method adopted in reporting upon the water supply of the city, conditions prevailing in former years in connection with the lighting of the streets of The City of New York, are here outlined.

1. THE GROWTH OF LIGHTING METHODS.

The first lighting system was introduced in 1697, when an ordinance was passed providing that "every seventh householder, in the dark time of the moon, should cause a lantern and candle to be hung out of his window on a pole—the expense of which to be divided among the seven families."

Public lamp-posts, with oil-burning lamps, were first maintained at the expense of the city in 1762. In 1823 the first gas company was incorporated and in 1825 the first gas-pipes were laid on either side of Broadway from Canal Street to the Battery. Electricity was introduced in Manhattan in 1881. Another improvement in lighting was the substitution, in 1904, of the gas mantle for the old open gas flame.

Dissatisfaction with the high rates charged by various companies led to the passage of Chapter 732, Laws of 1905, by which the rate for electricity, other than that furnished to The City of New York, was limited generally to ten cents per kilowatt hour. In the County of Kings a charge of twelve cents per kilowatt hour was permitted. Chapter 125, Laws of 1906, fixed the general rate for gas at eighty cents per thousand cubic feet. In the less densely populated portions of the city a higher charge was permitted.

2. THE CITY'S LIGHTING PROBLEM.

Throughout the entire city, 2,666 miles of streets, about ten square miles of parks, nearly ten miles of bridges, and 2,380 public buildings are regularly lighted.

The number of lamps in operation December 31, 1914, aside from those in public buildings, was 87,900. These were divided as follows:

Street Lighting—

Electric:	
Arc	17,884
Gas-filled Tungsten	965
Incandescent	19,030
Gas:	
Mantle	43,119
Open flame	6
Naphtha:	
Mantle	735
Open flame	12

Statement No. 1, Showing the Total Cost to the Bureau of Gas and Electricity of Light, Heat and Power for the Years 1913 and 1914.

	1914.			1913.			Increase.	Decrease.	Per Cent. of Increase or *Decrease.
	Detail.	Totals.	Per Cent. of Total Expenditures.	Detail.	Totals.	Per Cent. of Total Expenditures.			
<i>Expenditures:</i>									
<i>Illumination, Power and Heat Control—</i>									
a. Street and Park Lighting (Gas and Electricity)	\$3,429,230 95			\$3,360,374 61			\$68,856 34	.....	2.05
b. Street and Park Lighting (Maintenance of Lamp Posts)	57,430 84			55,921 01			1,509 83	.....	2.70
c. Lighting Public Buildings	1,085,647 45			1,038,385 62			47,261 83	.....	4.55
d. Power for City Departments	99,720 08			85,053 58			14,666 50	.....	17.24
e. Heat for Public Buildings	17,762 60			11,571 97			6,190 63	.....	53.50
f. High Pressure Fire Service	†130,864 91			128,609 26			2,255 65	.....	1.75
Total Cost of Light, Heat and Power	\$4,820,656 83	92.95		\$4,679,916 05	92.85		\$140,740 78	.....	3.01
<i>Direct Overhead Charges (Personal Service)—</i>									
Administration	\$28,917 02			\$28,544 08			372 94	.....	1.31
Clerks and Stenographers	27,233 51			25,933 98			1,299 53	.....	5.01
Draftsmen	7,153 22			6,656 79			496 43	.....	7.46
Inspectors	14,162 73			13,080 00			1,082 73	.....	8.28
g. Total Cost of Overhead Charges (Personal Service)	\$77,466 48	1.50		\$74,214 85	1.47		\$3,251 63	.....	4.38
<i>Inspection and Control of Street and Park Lighting and Public Buildings (Personal Service)—</i>									
Supervision	\$17,671 50			\$16,553 22			\$1,118 28	.....	6.76
Inspection	84,153 39			84,619 78			\$466 39	.....	*.55
Clerks and Stenographers	24,112 85			23,826 81			286 04	.....	1.20
Lighters of Public Markets	210 00			240 00			*30 00	.....	*12.50
h. Total Cost of Inspection and Control of Street and Park Lighting and Public Buildings	\$126,147 74	2.43		\$125,239 81	2.49		\$907 93	.....	.72
<i>Special Municipal Regulation Service Other Than Street and Park Lighting and Public Buildings (Personal Service)—</i>									
Supervision	\$9,031 25			\$8,800 00			231 25	.....	2.62
Clerks and Stenographers	21,180 40			21,102 29			78 11	.....	.36
Inspectors (Electrical)	65,781 84			68,525 47			2,743 63	.....	*4.00
Wiremen and Battery-men	3,136 00			3,052 50			83 50	.....	2.73
Chief Gas Inspector				1,500 00			1,500 00	.....	*100.00
Gas Inspectors (Photometric Stations)	14,400 00			12,541 94			1,858 06	.....	14.81
h. Total Special Municipal Regulation Service, Etc.	\$113,529 49	2.19		\$115,522 20	2.29		\$1,992 71	.....	*1.72

Park Lighting—

Electric:	
Arc	327
Incandescent	3,206

Gas:	
Mantle and open flame	19

Naphtha:	
Mantle and Open flame	339

Bridge Lighting—

Electric:	
Arc	612
Incandescent	1,646

Total lamps, December 31, 1914..... 87,900

The following list gives a general idea of the extent of the work involved in the inspection and control of the light, heat and power used in the numerous buildings and structures occupied by the various departments of The City of New York:

Main Public Buildings and Structures Lighted by the City.

Armory Board (22).	Riverside Hospital.
Bellevue and Allied Hospitals:	Kingston Avenue Hospital.
Bellevue Hospital.	Tuberculosis Sanatorium, Otisville.
Nurses' Residence.	Infants' Milk Stations.
Gouverneur Hospital	Hunter College.
Harlem Hospital.	Department of Parks:
Fordham Hospital.	Public Buildings, Comfort Stations, etc.
Borough Presidents:	Police Department:
Municipal Building.	Stationhouses, etc.
Other Public Buildings and Offices not under jurisdiction of other departments.	Public Charities:
Public Markets.	City Hospital.
Public Comfort Stations.	Metropolitan Hospital.
Public Baths.	Neurological Hospital.
Courts and County Offices.	New York City Children's Hospitals and Schools.
Ludlow Street Jail.	Kings County Hospital.
Department of Bridges:	Cumberland Street Hospital.
Bridge Structures (20).	Bradford Street Hospital.
Department of Correction:	Reception Hospital, Coney Island.
Blackwell's Island Buildings.	Seaview Hospital, Staten Island.
Hart's Island Buildings.	Hunter's Island Home.
Riker's Island Buildings.	New York City Home for Aged and Infirm.
City Prisons (3).	Municipal Lodging House.
District Prisons (7).	Brooklyn Home for Aged and Infirm.
Docks and Ferries:	New York City Farm Colony.
Various buildings and structures.	New York Training School for Nurses.
Department of Education:	Metropolitan Hospital Training School.
Offices, Schoolhouses, etc.	Dock offices, etc.
Fire Department:	Department of Street Cleaning:
Firehouses, etc.	Storehouses, Stables, etc.
Department of Health:	Department of Water Supply, Gas and Electricity:
Main Office Building.	Storehouses, Stations, Stables, etc.
Willard Parker and Reception Hospitals.	

The annual report of the Department of Water Supply, Gas and Electricity states, in connection with section 524 of the City Charter, requiring that the Department inspect "all wires, currents and electrical appliances" installed in any building in the city, that over 180,000 premises are supplied from the electric mains with heat, light or power. The control of the Department over the use and transmission of electricity in city streets involves supervision over 1,596,500 miles of wires and conductors. The department also examines operators of moving picture machines and issues licenses to them. Electricians must also, under a new ordinance, procure licenses from the department prior to the installation by them of any electric work in or about buildings.

3. EXPENDITURES.

Owing to the fact that it has not hitherto been found practicable to install an expense account ledger in the Bureau of Gas and Electricity, it has not been possible to have the accounts of this bureau compiled on an expense account basis, as in the case of the water supply accounts. Under these circumstances the following general statement has been compiled, comparing the cost of street and park lighting, and that of public buildings and offices for the years 1913 and 1914, the figures having been taken from various detailed statements prepared by the Bureau of Gas and Electricity. This general statement distinguishes between the actual cost of illumination, power and heat, and all direct overhead charges, cost of inspections and general expenses, etc.

	1914.			1913.			Increase.	Decrease.	Per Cent. of Increase or *Decrease.
	Detail.	Totals.	Per Cent. of Total Expenditures.	Detail.	Totals.	Per Cent. of Total Expenditures.			
General Expenses, including Purchase of Equipment, Supplies, Materials, Etc.—									
Motor Vehicles and General Plant Equipment, Etc.	\$8,930 81			\$6,976 34			1,954 47		28.02
Food Supplies (Meal Money) ..	2,094 70						2,094 70		100.00
Motor Vehicle and General Plant Supplies	1,098 31			1,101 29				2 98	
Contract or Open Order Service, Including General Plant Service, Hire of Horses and Vehicles with and without Drivers, Carfare, Etc.	36,145 41			37,167 74				1,022 33	2.75
Total General Expenses	\$48,269 23	.93		\$45,245 37	.90	\$3,023 86			6.67
Total Expenditures	\$5,186,069 77	100.00		\$5,040,138 28	100.00	\$145,931 49			2.90

†The cost of electric current for high-pressure fire service, here stated at \$130,864.91, is also included as part of the cost of operation of the high-pressure pumping stations of the water supply system.

From the foregoing statement it appears that the total expenditures for 1914, covering the cost of light, heat and power, amounted to \$5,186,069.77, an increase as compared with 1913 of \$145,931.49, or 2.90 per cent. It is intended in the following paragraphs to outline as briefly as possible how the individual increases and decreases arise and also to compare unit costs whenever practical.

The total direct cost of light, heat and power is stated at \$4,820,656.83, representing 92.95 per cent. of all expenditures. This figure, it will be observed, exceeds the corresponding amount for 1913 by \$140,740.78, or 3.01 per cent., so that, except for about \$5,000, practically the whole increase of all expenditures, stated at \$145,931.49, is included under this main caption.

The direct expenditures of the Bureau of Gas and Electricity, 1909 to 1914, for the various items enumerated, are set forth below:

Statement No. 2, Showing the Direct Expenditures of the Bureau of Gas and Electricity, 1909 to 1914, Inclusive, for Light, Heat and Power.

	1914.	1913.	1912.	1911.	1910.	1909.
Illumination of Streets and Parks (Including Maintenance of Lamp Posts)	\$3,486,661 79	\$3,416,295 62	\$3,346,306 30	\$3,190,121 48	\$3,037,728 04	\$2,925,147 89
Public Bldgs.:	1,085,647 45	1,038,385 62	985,314 64	886,603 67	873,104 33	779,485 88
Heat and Power	117,482 68	96,625 57	90,307 70	76,617 04	72,083 70	61,636 75
High-Pressure Fire Service	130,864 91	128,609 26	132,879 02	129,675 04	135,546 00	134,390 50
Totals	\$4,820,656 83	\$4,679,916 07	\$4,554,807 66	\$4,283,017 23	\$4,118,462 07	\$3,900,661 02

A comparison of the direct expenditures for these items in the years 1909 and 1914 follows, together with the percentages of increase in each:

	Expenditures.		Increase or *Decrease.	Percentage of Increase or *Decrease.
	1914.	1909.		
Illumination of Streets and Parks (Including Maintenance of Lamp Posts)	\$3,486,661 79	\$2,925,147 89	\$561,513 90	18.51
Public Buildings:	1,085,647 45	779,485 88	306,161 57	39.15
Heat and Power	117,482 68	61,636 75	55,845 93	96.04
*High-Pressure Fire Service	130,864 91	134,390 50	*3,525 59	*2.62
Totals	\$4,820,656 83	\$3,900,661 02	\$919,995 81	23.58

*Included also in water supply expenses.

(A)—STREET AND PARK LIGHTING.

By far the most important item included under the cost of illumination, power and heat control is that of street and park lighting. The amount expended for street and park lighting in 1914 was \$3,429,230.95, or 66.12 per cent. of the total cost of the bureau. Statement No. 3, below, compares for 1913 and 1914 the average number of lamps burning in each year, their unit cost and the total expenditures.

Statement No. 3, Showing Cost of Street and Park Lighting.

Kind of Lighting.	Average Number of Lamps Burning During the Year.		Expenditures.		Average Unit Cost Over Periods.		Increases or *Decreases.	
	1914.	1913.	1914.	1913.	1914.	1913.	Average No. of Lamps.	Average Unit Cost.
Electric Lamps.								
Arc	19,502	19,448	\$1,809,563 26	\$1,799,294 55	\$92 79	\$92 52	54	\$0 27 \$10,268 71
Gas-Filled Tungstens.	108	.....	9,008 40	83 53	.....	.....	108	..... 9,008 40
Incandescent	21,674	18,885	\$41,548 60	\$40,430 85	24 98	24 91	2,789	0 07 71,117 75
Gas.								
Mantle	44,955	44,952	.....	.....	.....	.....	.....	.....
Open Flame.	6	6	\$1,030,596 78	\$1,039,821 31	22 92	23 13	3	*0 21 *9,224 53
Naphtha.								
Mantle	1,323	1,735	.....	.....	.....	.....	.....	.....
Open Flame.	12	12	\$8,513 91	\$0,827 90	28 85	29 09	*412	*0 24 *12,313 99
Totals	87,580	85,038	\$3,429,230 95	\$3,360,374 61	\$39 15	\$39 52	2,542	*\$0 37 \$68,856 34

The foregoing statement indicates that the average number of lamps kept burning in the city's streets and parks in 1914 was 87,580. Comparison of these expenses for street and park lighting illustrates that the average unit cost for all lamps decreased by thirty-seven cents, although the total cost increased by \$68,856.34. However, it also appears that the total number of lamps employed in 1914 increased by 2,542 as compared with the prior year.

It is stated that the number of arc lamps was considerably reduced during the latter part of 1914, the actual number at that date being 1,291 less than the average maintained over the year, namely 19,502. This class of lamp has lately been superseded by the nitrogen-gas-filled Tungsten lamps, whose use was begun in 1914, at a cost of \$9,008.40. Arc lamps have also been replaced by the large-size nitrogen-filled incandescent lamps, which, it is claimed, give a higher candle power than even the flaming arc lamps.

The contracts made by the city for the lighting of public thoroughfares include the cost of Tungsten lamps, gas mantles, globes, etc.

The average candle power maintained at December 31, 1914, is stated to have been 16,157,646, a reduction of 185,184 candle power as compared with 1913. This reduction was secured, it is said, without sacrifice of lighting efficiency.

A statement of the rates for street and park lighting is given in the annual report (1914) of the Department of Water Supply, Gas and Electricity. These rates, which vary according to the candle power of the individual lamps, are also dependent upon the terms of contract, and are generally as follows:

(a) Gas Filled Tungstens. These range from \$77 per annum for 400-watt lamps to \$107 for a 750-watt lamp.

(b) Incandescents. There is a considerable variety of candle-power in incandescent lamps, the rates for which range from \$21.50 to \$90 each per annum.

(c) Mantle Gas Lamps. The rates charged for these lamps vary from \$26.12 to \$26.81 each per annum.

(d) Naphtha Mantle Lamps. These rates are stated at \$29 each per annum, and for the open-flame lamps, of which there are very few, at \$23.50 each per annum.

The number and kind of lamps in use in the various parks of the City at December 31, 1914, are here given:

Borough.	Number of Parks Lighted.	Kind of Lamp.				Total Lamps in City Parks.
		Arc.	Incandescent.	Gas.	Naphtha.	
Manhattan	36	289	1,750	11	..	2,050
Brooklyn	20	21	1,018	4	89	1,132
The Bronx	11	9	280	4	250	543
Queens	6	6	158	..	..	164
Richmond	1	2	..	..	..	2
Totals	74	327	3,206	19	339	3,891

(B)—MAINTENANCE OF LAMP POSTS.

The cost of maintaining gas and electric lamps for 1913 and 1914 was as follows:

	1914.	1913.	Increase or *Decrease.
Cost of Repairs	\$41,274 38	\$33,842 85	\$7,431 53
Purchase of Lamp Posts	12,740 00	14,129 54	*1,389 54
Fire Alarm Glasses	926 16	37 92	888 24
Carting Posts	270 00	320 00	*50 00
Changing Grades	2,220 30	7,590 70	*5,370 40
Total Maintenance Charges	\$57,430 84	\$55,921 01	\$1,509 83

The increase in the cost of repairs over 1913, namely \$7,431.53, is attributed to the fact that approximately 38,000 lamp posts were painted within the year 1914, at a cost of twenty cents each. The charge shown for changing grades is dependent upon the requirements of the Bureau of Highways in connection with the relaying of mains.

Of the total of 85,779 lamp posts and brackets, including free service lamps, standing in the five boroughs of New York City at December 31, 1914, there were 48,429 (about 57 per cent.), which were the property of the city, the remaining 43 per cent. having been erected by private companies under the same contracts whereby the lights were furnished. The various kinds of lamp post and bracket erected in all boroughs owned by the city are shown in the following tabulation, which also distinguishes between large and small units:

(a) Electric Lamp Posts and Brackets Owned by the City.

Borough.	Classes of Posts.			Brackets.		Totals.	
	Iron.	Wood.	Special.	Large Units.	Small Units.	Large Units.	Small Units.
Manhattan:							
Large units	106	..	3	18	127	..	..
Small units	2,659	59	91	51	..	2,860	..
The Bronx:							
Large units	89	..	..	7	96	..	..
Small units	391	..	..	43	..	434	..
Brooklyn:							
Large units	4	..	..	16	20	..	..
Small units	1,411	..	18	7	..	1,436	..
Queens:							
Large units	55	..	..	..	55	..	..
Small units	234	18	4	..	..	256	..
Richmond:							
Large units	1	..	..	..	1	..	..
Totals	4,950	77	116	142	299	4,986	..

Total number of electric lamp posts and brackets owned by the city, 5,285. (Large and small units combined.)

(b) Gas Lamp Posts Owned by the City.

Manhattan	9,790	Not including about 1,800 not in use
The Bronx	6,560	Not including about 300 not in use
Brooklyn	20,002	Not including about 250 not in use
Queens	6,553	Not including about 150 not in use
Richmond	239	..

Total number of gas lamp posts... 43,144 Not including about 2,500 not in use

It is intended to discontinue all gas lamps in the Boroughs of Manhattan and Queens and in The Bronx, west of the Bronx River, as soon as practicable, replacing them with electric lights. The posts will be removed as rapidly as the appropriations will permit. It will be seen that there are about 2,500 lamp posts in addition to the 43,144 listed by boroughs which are not in use.

It has been customary in the past to install all lights above 300-watt power on lamp posts and brackets belonging to private companies, the contract price being made to cover the furnishing, fitting up, maintaining, lighting, extinguishing, repairing, painting, cleaning, removing, changing of location, etc., of all lamps so installed in the parks and highways. It is stated that the large underground posts such as are used in the Borough of Manhattan, cost from \$60 to \$110 each, but inasmuch as no stipulated price is mentioned in the contract there is no means of ascertaining the rate per annum charged the city for the use or rental of these posts. According to the contract the city may remove or relocate any of the lamp posts and brackets so provided. The various kinds of electric lamp posts and brackets located in the streets and highways at December 31, 1914, which were not owned by the city of New York, are listed as follows according to boroughs, distinguishing between the large and small units:

(c) Electric Lamp Posts and Brackets, not Owned by the City, but Provided by Private Companies.

Borough.	Classes of Posts.			Brackets.		Totals.	
	Iron.	Wood.	Special.	Large Units.	Small Units.	Large Units.	Small Units.
Manhattan.							
Large units	6,023	1	66	6,090	.....	.....	.....
Small	1,381	3	96	.....	1,480	.....	.....
The Bronx.							
Large units	717	1,818	13	2,548	.....	.....	.....
Small .....	.....	3,892	6	.....	3,898	.....	.....

Borough.	Classes of Posts.		Brackets.	Totals.	
	Iron.	Wood.		Large Units.	Small Units.
Brooklyn.					
Large units	2,793	3,406	.....	6,199	.....
Small units	5	597	.....	.....	602
Queens.					
Large units .....	.....	2,037	2	2,039	.....
Small units	33	8,227	119	.....	8,379
Richmond.					
Large units .....	.....	695	.....	695	.....
Small units .....	.....	4,334	.....	.....	4,334
Totals	10,952	25,010	302	17,571	18,693

Total number of electric lamp posts and brackets not owned by the city, 36,264. (Large and small units combined.)

In addition to the 36,264 electric lamp posts here shown there are 1,086 naphtha gas lamps furnished by private companies under contract.

There are no gas lamp posts not owned by the city. Generally speaking, those posts described as iron are for underground service, while the wood posts are for supplying overhead service. It is stated that about 80 per cent. of the overhead or wood posts, by means of additional brackets, furnish commercial service for telephones and light in private dwellings in addition to the service provided for the city. This is done to avoid setting up in the streets more posts than are actually necessary.

(C)—LIGHTING OF PUBLIC BUILDINGS.

Prior to 1902 the lighting of public buildings was under the immediate and sole charge of the respective administrative departments. The former Department of Public Buildings, Lighting and Supplies furnished light only to courthouses and armories, public markets and unattached buildings. In an opinion given by the Corporation Counsel under date of April 29, 1902, it was held that under section 531 of the revised City Charter, the duty devolved on the Department of Water Supply, Gas and Electricity to furnish light to all public buildings owned and used by the city, with the exception of the Department of Docks and Ferries. This exception was later removed. The decision of the Corporation Counsel placed upon the Department of Water Supply, Gas and Electricity the duty and responsibility of lighting nearly a thousand public buildings in addition to the work involved in connection with the street and park lighting. The Division in Charge of Public Buildings also supervises the supply of heat furnished by the New York Steam Company, and regulates the gas pressure in various buildings, including armories, by means of gas governors.

The cost of lighting public buildings for the year 1914 was \$1,085,647.45. This figure is \$47,261.83 in excess of the cost for 1913, an increase of 4.55 per cent. These expenditures are analyzed in the following tabulation, comparing by boroughs for the years 1913 and 1914 the total cost of electricity, gas, purchase of lamps, maintenance of lamps and miscellaneous expenditures. These latter include the cost of fixtures, appurtenances, etc.:

Summary Statement, Comparing the Cost of Lighting Public Buildings (by Boroughs) for the Years 1913 and 1914, Respectively, with Corresponding Increases and Decreases.

Borough.	Electricity.	Gas.	Purchase of Lamps.	Maintenance of Lamps.	Miscellaneous.	Totals.	Per Cent. of Increase or Decrease by Boroughs.
Year 1914.							
Manhattan and The Bronx	\$482,011 59	\$196,366 06	\$48,994 63	\$18,256 78	\$14,615 33	\$760,244 39	.....
Brooklyn	143,501 08	61,635 18	16,265 03	165 04	500 00	222,066 33	.....
Queens	33,525 33	13,683 07	5,035 36	.....	.....	52,243 76	.....
Richmond	46,982 80	2,711 00	1,399 17	.....	.....	51,092 97	.....
All Boroughs.....	\$706,020 80	\$274,395 31	\$71,694 19	\$18,421 82	\$15,115 33	\$1,085,647 45	.....
Year 1913.							
Manhattan and The Bronx	\$487,527 16	\$186,634 05	\$19,118 65	\$20,020 97	\$3,879 79	\$717,180 62	.....
Brooklyn	155,975 42	56,662 69	8,945 72	254 93	250 00	222,088 76	.....
Queens	32,305 90	13,752 28	511 27	.....	.....	46,569 45	.....
Richmond	49,278 50	2,356 08	912 21	.....	.....	52,546 79	.....
All Boroughs.....	\$725,086 98	\$259,405 10	\$29,487 85	\$20,275 90	\$4,129 79	\$1,038,385 62	.....
Increases and Decreases.							
Manhattan and The Bronx	*\$5,515 57	\$9,732 01	\$29,875 98	*\$1,764 19	\$10,735 54	\$43,063 77	6.00
Brooklyn	*12,474 34	4,972 49	7,319 31	*89 89	250 00	\$22 43	.....
Queens	1,219 43	*69 21	4,524 09	.....	.....	\$5,674 31	.....
Richmond	*2,295 70	354 92	486 96	.....	.....	*1,453 82	*2.77
Total Net Increase or Decrease.....	*\$19,066 18	\$14,990 21	\$42,206 34	*\$1,854 08	\$10,985 54	*\$47,261 83	4.55
Per Cent. of Increase or Decrease	*2.63	5.80	143.14	*9.14	266.00	4.55	

The decrease of \$19,066.18 in the cost of electricity appears to be due entirely to reductions in rates as the consumption in 1914 exceeded that in 1913 by 915,334 kilowatt hours. The reduction in cost was 2.63 per cent., while the increase in consumption was 6.8 per cent. The rates paid by the city for electricity in 1914 ran from \$.09168 to \$.02228 per kilowatt hour, the rates varying with the amounts consumed at various points or with certain radii. These rates are given in detail later.

An increase in the cost of gas of \$14,990.21 will be noted. Most of this increase, \$13,634.45, is in the Department of Education and is said to be due to the extension of cooking instruction. The cost of gas to the city is seventy-five cents per thousand cubic feet.

In the item "Purchase of Lamps" there is an increase in cost of \$42,206.34, or 143 per cent. Of this total increase, \$32,923.86 is in the Department of Education, and \$8,718.89 in the Department of Water Supply, Gas and Electricity. In Education the increase is said to be due to the fact that reduced rates are obtained when the lighting contract does not include the supplying of lamps. In Water Supply, Gas and Electricity it is stated that the increased purchases were made in large measure for distribution to other departments.

The increase of \$10,985.54 in "Miscellaneous" represents additional purchases of fixtures, fittings, etc., by the Department of Water Supply, Gas and Electricity.

The total amounts charged in 1913 and 1914 to the various departments for electricity, gas, electric lamps, maintenance of equipment and fixtures, fittings, etc., in connection with public buildings, are:

Departments, Etc.	Expenditures.		Increase or *Decrease.
	1914.	1913.	
Education	\$386,162 96	\$349,340 58	\$36,822 38
Armory Board	94,792 77	81,368 07	13,424 70
Bridges	82,991 75	82,934 23	57 52
Borough Presidents	74,193 98	85,724 41	*11,530 43
Public Charities	71,026 46	90,963 29	*19,936 83
Fire	62,141 22	63,907 38	*1,766 16
Police	57,986 05	57,341 57	644 48
Docks and Ferries	43,075 29	43,017 28	58 01
Water Supply, Gas and Electricity	38,923 39	19,826 49	19,096 90
Bellevue and Allied Hospitals	36,606 92	39,293 42	*2,686 50
Health	33,512 33	33,792 16	*279 83
Correction	29,510 87	39,150 69	*9,639 82
Municipal Building	26,086 14	.....	26,086 14
Street Cleaning	21,884 75	20,571 32	1,313 43
Parks	16,285 65	14,776 70	1,508 95
Miscellaneous	10,466 92	16,378 03	*5,911 11
Totals	\$1,085,647 45	\$1,038,385 62	*\$47,261 83

The changes in the above costs are accounted for as follows:

Education. The net increase of \$36,822.38 is mainly due to the extension of the cooking instruction.

Armory Board. Removals to larger quarters, changes in fixtures, etc., account for an increase of \$13,424.70.

Bridges. The net increase in cost of \$57.52 is made up of a decrease of \$9,574.37 in the cost of lighting the East River bridges due to changes in lighting methods and an increase of \$9,631.89 for the lighting of sixteen of the smaller bridges, this latter expense having formerly been charged to street and park lighting.

Municipal Building. This building was not ready for occupation until 1914, and this increase, \$26,086.14, is undoubtedly offset in larger measure by decreases in the lighting expenses of the various departments now occupying it.

Water Supply Gas and Electricity. The increase here of \$19,096.90 is said to be due to large purchases of lamps and equipment to meet the needs of other departments.

Borough Presidents. The decrease of \$11,530.43 is largely due to the removal of many offices from the old Municipal Building, Brooklyn, now demolished, to various privately owned office buildings where the lighting is included in the rent.

Public Charities. Here is shown a decrease of \$19,936.83. It is said to be mainly due to a small drop in the rates and a reduction in the amount of electric current used by reason of the substitution of Tungsten lights and the elimination of unnecessary lighting.

Correction. The decrease of \$9,639.82 is due partly to a small reduction in rates, to improvements in construction, and better lighting supervision.

A summary follows of the individual rates and kilowatt hours for electric current and lighting, together with the corresponding costs for the years 1913 and 1914, respectively:

Statement Showing the Number of Kilowatt Hours and Individual Rates for Lighting of Public Buildings.

Rates per K. W. Hour.	1914.		1913.	
	Kilowatt Hours.	Amount.	Kilowatt Hours.	Amount.
.10 .....	.....	.....	904,493	\$90,449 30
.09168	106,816	\$9,793 42	.....	.....
.085	7,840	666 40	1,123,708	95,515 19
.0716	90,467	6,476 99	.....	.....
.07143	167,417	11,958 89	.....	.....
.07 .....	.....	.....	41,840	2,928 80
.06952	602,093	41,857 87	.....	.....
.06869	438,762	30,138 23	.....	.....
.06719	3,671,662	246,698 95	.....	.....
.065	72,850	4,735 21	4,148,964	269,682 67
.06487	974,016	63,187 32	.....	.....
.06480	216,135	14,005 29	.....	.....
.06372	450,339	28,693 39	.....	.....
.06 .....	.....	.....	521,614	31,296 86
.05796	1,067,931	61,899 10	.....	.....
.05180	475,957	24,314 02	.....	.....
.05 .....	.....	.....	1,231,729	61,586 43
.04390	474,003	20,806 41	.....	.....
.04 .....	.....	.....	884,687	35,387 48
†.03917	63,240	2,477 02	.....	.....
†.03806	12,269	466 94	.....	.....
†.03662	2,002	73 31	.....	.....
.035	17,994	629 78	.....	.....
.03 .....	.....	.....	4,606,508	138,195 25
.02741	1,226,123	33,615 71	.....	.....
†.02228 to .02493	4,240,961	103,492 90	.....	.....
Mayor's Lamps .....	.....	33 65	.....	45 00
Totals	14,378,877	\$706,020 80	13,463,543	\$725,086 98

† Wholesale Rates.

The foregoing statement indicates that, while the number of kilowatt hours has increased for 1914 by no less than 915,334, the total cost has been reduced by \$19,066.18. Glancing over the rates given in the first column and comparing these with the kilowatt hours for both periods (1913 and 1914) it will be noticed that in 1913 there were only eight individual rates established, but in 1914 the number had increased to more than twenty, including wholesale rates, which are on a sliding scale. The following reasons may be adduced for the reduction in cost of \$19,066.18 referred to.

(1) The changes brought about by the elimination of the gem lamp, which has been largely replaced by Tungsten lamps of varying candle power.

(2) The advantages obtained in procuring wholesale rates wherever possible. During 1914 a reduction was made of one-half cent per kilowatt hour in both wholesale and retail rates.

(3) Improvements made in the distribution of lights by a more careful inspection of public buildings.

The use of Tungsten lamps may be said to have practically revolutionized the cost of lighting public buildings and structures. As an example may be cited the ordinary gem lamp, which, until recently, was much in use. This lamp, which has an efficiency of 2.5 watts per candle power per hour, would consume 50 watts if a twenty-candle-power light were desired, but to-day a Tungsten lamp of 1.25 watts per candle power would consume only 25 watts to produce the same efficiency of light, thereby reducing the consumption by fifty per cent.

An instructive diagram was furnished in the 1913 report of the Department of Water Supply, Gas and Electricity, giving the rates charged by two of the largest corporations supplying current in the Boroughs of Manhattan and The Bronx. To that statement the year 1914 has been added, as follows:

Table Showing Average Rates Over a Period of Eleven Years, 1904 to 1914, Inclusive, as Charged by the New York Edison Company and the United Electric Light and Power Company.

Year.	K. W. Consumption.	Average Rate.	Amount.
1904	1,621,372	\$0 10425	\$168,663 63
1905	2,103,279	0 097948	206,011 99
1906	2,521,148	0 075	189,086 12
1907	3,461,548	0 06941	240,267 79
1908	4,506,276	0 063749	287,407 69
1909	6,304,872	0 055339	348,908 43
1910	7,955,797	0 054363	432,497 51
1911	8,829,270	0 049123	433,724 58
1912	9,791,164	0 049731	486,938 35
1913	10,373,073	0 050054	519,229 14
1914	11,510,058	0 0413935	476,446 01

These average rates as stated show that a gradual decrease has taken place over the entire period covered.

d.—POWER FOR CITY DEPARTMENTS.

The cost of furnishing power to the various departments of the city in 1914 was \$99,720.08, as compared with \$85,053.58 for 1913. This represents an increase of \$14,666.50, or 17.24 per cent. The following tabulation shows the cost of electric current and gas for power purposes in all boroughs for both periods:

Borough.	1914.		1913.		Increase or *Decrease.	
	Electric Current.	Gas.	Electric Current.	Gas.	Electric Current.	Gas.
Manhattan and The Bronx.....	\$22,994 77	.....	\$20,036 95	.....	\$2,957 82	.....
Brooklyn	54,146 74	\$9,654 63	46,372 51	\$7,653 48	7,774 23	\$2,001 15
Queens	6,711 52	392 64	4,287 49	354 37	2,424 03	38 27
Richmond	5,523 25	296 53	6,112 85	235 93	*\$589 60	60 60
All Boroughs.....	\$89,376 28	\$10,343 80	\$76,809 80	\$8,243 78	\$12,566 48	\$2,100 02

This analysis indicates that the increase of \$14,666.50 referred to comprises an additional cost of \$12,566.48 for electric current and \$2,100.02 for gas. The largest increase for electric current occurs in the Borough of Brooklyn, which is stated at \$7,774.23. This is nearly all accounted for by an increase in the cost of power for the Department of Education amounting to \$4,183.44, and Gowanus Canal, \$2,330.40. The cost of gas power has also increased in Brooklyn, but this figure, shown at \$2,001.15, is fairly evenly distributed.

The rates at which electric current is supplied for power purposes in each of the five boroughs are:

Manhattan—Six cents per kilowatt hour, with sliding wholesale rate schedule coming down to two cents for current consumed above a certain amount. For high pressure service one and one-half cents per kilowatt hour plus stand-by charges.

The Bronx—New York Edison Company, same rate as Manhattan; Bronx Gas and Electric Company and Westchester Lighting Company, ten cents per kilowatt hour straight.

Brooklyn—Edison Electric Illuminating Company, six cents per kilowatt hour, with sliding wholesale rate scale coming down to three cents for current consumed in excess of a certain amount; high pressure fire service, same as Manhattan. Flatbush Gas Company, ten cents per kilowatt hour, with sliding scale based on monthly consumption, coming down to two and one-quarter cents.

Queens—New York & Queens Electric Light & Power Company, nine and one-half cents per kilowatt hour, with sliding scale coming down to two and one-half cents, based on hourly consumption per month. Queensboro Gas & Electric Company, ten cents per kilowatt hour, with discount based on monthly consumption.

Richmond—Five cents per kilowatt hour straight.

(c)—HEAT FOR PUBLIC BUILDINGS.

This figure is stated at \$17,762.60 for the year 1914, an increase of \$6,190.63 or 53.50 per cent over the preceding year. It appears that this additional cost is due to the large extension made last year for Hunter College, formerly known as the Normal College, thereby increasing the cost of steam heat \$3,192.17, and the inclusion of \$1,714.26 for the heating of the Department of Licenses in 1914. No charge was included for this latter item for the previous year for the reason that the office was then in the City Hall and the heating charge was borne by the office of the Borough President of Manhattan.

The rate for steam heat charged is stated at 45½ cents per 1,000 kals (pounds of water evaporated into steam).

(f)—HIGH PRESSURE FIRE SERVICE.

The cost of service in the five high-pressure fire service stations has increased from \$128,609.26 in 1913 to \$130,864.91 during 1914, a difference of \$2,255.65 or 1.75 per cent. Besides the actual cost of the current furnished it is also necessary for the city to pay a fixed charge per month in Manhattan and Brooklyn for what is known as a "standby charge." During the past two years this charge was \$72,000 for Manhattan and \$40,800 for Brooklyn. In negotiating for the 1915 contracts the Department of Water Supply, Gas and Electricity has reduced the capacity on which the standby charge is based to 4,000 kilowatts in Manhattan, instead of 6,500 kilowatts as heretofore. By this means, it is estimated, the cost for this borough will in future be reduced from \$72,000 to \$48,000.

The actual cost of current supplied, exclusive of the reservation charges, in the two boroughs during the past two years has been as follows:

Borough.	Cost of Current.		Increase.
	1914.	1913.	
Manhattan	\$14,742 00	\$12,649 50	\$2,092 50
Brooklyn	3,322 91	3,159 76	163 15
Total Cost of Current	\$18,064 91	\$15,809 26	\$2,255 65

The increase of \$2,092.50 in Manhattan is due to cost of additional current in Gansevoort and West Street stations, amounting to \$1,453.50, and \$639 in the Oliver and South Street station.

(g)—OVERHEAD CHARGES—PERSONAL SERVICE, \$77,466.48.

This expense includes all salaries and wages incident to the cost of administration of the Bureau of Gas and Electricity for 1914, an increase of \$3,251.63, or 4.38 per cent. over the cost for 1913. The charges include Administration \$28,917.02, Clerks and Stenographers \$27,233.51, Draughtsmen \$7,153.22 and Inspectors \$14,162.73.

(h)—INSPECTION (PERSONAL SERVICE).

The total cost of inspection, amounting to \$239,677.23, is grouped in statement No. 1 under two main captions: (a) Inspection and Control of Street and Park Lighting and Public Buildings (Personal Service), \$126,147.74, and (b), Special Municipal Regulation Service other than Street and Park Lighting and Public Buildings (Personal Service), \$113,529.49. These expenditures relate to the following 1914 Budget appropriations for personal service, namely:

Account No. 2173. Salaries Regular Employees, Inspection	\$226,698 00
Account No. 2172. Salaries Regular Employees, Gas Examination....	17,400 00
Account No. 2193. Wages Regular Employees, Inspection.....	3,181 50

Total Appropriations (1914)..... \$247,279 50

Account No. 2173, Salaries, Regular Employees, Inspection, is here summarized to show the number of employees and salary rates allowed for inspection under code number 2173.

2 Chief Inspectors at \$2,250.....	\$4,500 00
6 Inspectors at \$2,250.....	13,500 00
122 Other Inspectors with salaries varying from \$1,200 to \$1,800.....	162,168 00
2 Lighters of Public Markets at \$120.....	240 00
34 Clerks with salaries varying from \$300 to \$1,950.....	31,440 00
14 Stenographers and Typists with salaries varying from \$900 to \$1,200.....	14,850 00

Total Appropriations for Inspection (1914)..... \$226,698 00

It will be seen that this sum makes provision for the services of 130 inspectors, 2 lighters of public markets, 34 clerks and 14 stenographers and typists. As compared with the amount appropriated for inspection the actual cost for the year 1914 was \$222,141.23, made up as follows:

Inspection and Control of Street and Park Lighting, etc.	\$126,147 74
Special Municipal Regulation Service, etc.	113,529 49

Less Gas Inspection (Photometric Stations)..... \$14,400 00

Wiremen and Battery-men.....	3,136 00
	\$17,536 00

Total cost of Inspection (General)..... \$222,141 23

These expenditures for personal service in 1914, as shown in statement No. 1, exceed the corresponding expenditures of 1913 by only \$1,084.78.

The cost of gas inspection, stated at \$14,400, an increase of \$1,858.06 as compared with 1913, is in connection with twelve photometric stations located within the city's limits. These stations are located: Two in Manhattan, two in The Bronx, five in Brooklyn, two in Queens and one in Richmond. The contracts of the city with the gas companies specify that the gas supplied under the contract "shall have an illuminating power of not less than twenty-two sperm candles of six to a pound burning at a rate of 120 grains of spermaceti per hour, tested at a distance of not less than one mile from the distributing holder by burner consuming five cubic feet of gas per hour."

In carrying out the work of electrical inspection and control the department states that in 1914 it "made over 200,000 inspections and issued 76,021 certificates in relation to interior wiring, 36,948 permits for the installation of overhead conductors, 17,622 permits for the installation of conductors in underground subways, and 12,000 orders to remove defects in electrical installations."

(i)—GENERAL EXPENSES.

Included under the caption are motor vehicles, general plant equipment and supplies, meals, general plant service, hire of horses, with and without drivers, carfare, etc. The expenditures for these purposes in 1914 (\$48,269.23) exceeded those in 1913 (\$45,245.37) by \$3,023.86.

Possible Increase in Revenue, etc.—Comments upon the work of the Bureau of

Gas and Electricity and possible increases in its revenues are made in the concluding paragraphs of this report.

XI. General Remarks.

Very gratifying reductions in cost were made in most of the expense items in the Department in 1914, as compared with those of 1913. One item which appears to be on an uneconomical basis is the automobile service. The fact that while five additional cars were operated in 1914, the total mileage decreased by 22,588 miles indicates either that the Department has too many cars or they are not used to advantage. Another matter worthy of attention is the comparatively small income derived from hose permits. The enforcement of penalties for the use of hose without a permit might help this situation. Two matters, however, which should be productive of increased net revenues are:

1. *Decreases in the pumping charges.* It would seem that when the water from the Esopus and Schoharie watersheds becomes fully available, as it is expected to be in 1917 and 1925 respectively, a very large part of the pumping now necessary can be dispensed with, and that not until about 1936 (according to the table presented), will the city again be compelled to utilize the pumping stations to their full capacity. To make these possible savings effective and to minimize the inconvenience that will be caused to employees whom may be necessary to dismiss, this matter should be given early and careful attention, so that the expenses connected with the pumping stations may be promptly and thoroughly curtailed.

2. *A higher return per unit for water sold.* Out of total revenues in 1914 for water sold by the city aggregating \$12,907,627.09, the returns from metered water were \$6,517,067.21 or 50.49 per cent. of the total water revenues, whereas the water metered was but 48,751 millions of gallons, or 26.42 per cent. of the entire 185,273 millions of gallons supplied by the city during 1914. The charge for metered water, pursuant to the ordinances of the city, is ten cents per hundred cubic feet. This is equivalent to a charge of \$133.68 per million gallons. The amount received by the City for the 136,522 millions of gallons of water unmetered is \$6,390,559.68, or \$46.81 per million gallons.

The great difference between the \$133.68 per million gallons received for metered water and the \$46.81 per million gallons received for unmetered water naturally raises the question of the effect upon the revenues of the department, were all the water metered.

It is estimated that if it were possible for the entire consumption of 185,273 million gallons for 1914, to be metered and collected at the rate of \$133.68 per million gallons, the gross revenues from this source would be \$24,767,294.64, as compared with the present revenue from all water sold of \$12,907,626.89. There are, however, several reasons which would prevent this ideal from being attainable. As regards the revenues, these would be affected by the following considerations:

(1) Leakages in the mains and service pipes.

(2) Free water for street and sewer flushing, fire service, city boats, municipal and exempt institutions, etc.

(3) The consequent reductions in consumption, were meters generally installed. Irrespective of the foregoing considerations, if we assume it to be practicable to dispose at meter rates of even one-half of the water now unmetered (136,522 million gallons yearly), or 68,261 million gallons, the increase in the gross revenues on this amount of water from \$46.81 to \$133.68, or \$86.87 per million gallons would amount to \$5,929,833.07, subject, of course, to deductions for the reasons above stated. This would call for the metering of 117,012 million gallons per annum out of a total yearly consumption (in 1914) of 185,273 million gallons, or 63.16 per cent.

It is contended by the Department of Water Supply, Gas and Electricity that it would not be practicable to obtain from additional metering more than one-third of the estimated amount of the increased revenue, stated at nearly six million dollars. This conclusion is based largely on the experience of cities with a system of universal metering. It is invariably found that a large percentage of the total amount of water entering the mains is unaccounted for by the registration of meters. Without further investigation and experiment it is impossible to make an accurate forecast of the proportion of consumption that could be metered, but it seems reasonable to believe that the revenues from metered water, as compared with those from the unmetered supply, would more than justify an effort to extend this service beyond the present metered supply of only 26.42 per cent. of the total consumption.

That the metering of a much larger percentage of the water consumed in the City of New York than is metered now is entirely practicable would seem to be supported by the following statistics of water metered in other cities taken from "The American City" of July, 1912:

City.	Population.	Percentage of Taps.
Cleveland, Ohio	516,000	93.6
Milwaukee, Wis.	385,000	81.5
Minneapolis, Minn.	315,000	78.8
Providence, R. I.	224,300	89.2
New Orleans, La.	200,000	100.0
Columbus, Ohio	200,000	80.0
Toledo, Ohio	195,000	86.0
Atlanta, Ga.	150,000	100.0

A report made on November 30, 1903, to the Commissioner of Water Supply, Gas and Electricity, by Messrs. Wm. H. Burr, Rudolph Hering and John R. Freeman, Civil Engineers, composing a Commission on Additional Water Supply for The City of New York, has this to say regarding extension of the use of meters in New York:

"The reduction of all waste is effectively aided by the use of meters, which tends to make each householder an inspector of leaks, and thus brings prompt remedy for all obvious waste from leaky fixtures, and furthermore lessens the temptation to waste water at night for fear that poorly protected pipes may freeze, and lessens the tendency to waste large quantities of water while trying to obtain cooler water from the pipes.

"The Commission strongly recommends that the use of meters be extended to other classes of buildings than those now metered, and particularly that all buildings more than five stories in height be metered at the earliest practicable date. * * * *"

"The recent measurements of water delivered and the analysis of the statistics of the Water Registrar's office for typical districts investigated demonstrate the absolute unfairness of the frontage charges, leading to marked inequality of burden on users in different portions of the city. This is most manifest in connection with the large apartment houses covered by our recommendation to extend meters to all buildings over five stories in height."

In a report made by Mr. James H. Fuertes, C. E., to the Merchants' Association in June, 1906, he states that:

"Complete control of the present losses can only be had by universal metering."

Mr. J. Hampden Dougherty, a former Commissioner of the Department, states in the same volume:

"Water, far from being free, is costly. It should never be wasted. All engineering experts agree that metering is the solution of waste on the part of consumers."

The Commissioner of the Department of Water Supply, Gas and Electricity states in his annual report of 1914 that:

"The department is of the opinion that all water should be metered, but before it can install meters in apartment houses, tenements, flat-houses or private dwellings, the consent of the Board of Aldermen or the Legislature must be obtained."

Besides increasing the water revenues of the city, any considerable saving in the per capita consumption of water growing out of its measurement by meters would to that extent postpone the day when further and increasingly expensive new supplies must be provided for the ever-growing city.

Regarding this feature, Mr. Edward W. Bemis, Deputy Commissioner of the Department of Water Supply, Gas and Electricity in 1910, states in an article in the "Engineering Record" upon "Water Meter Rates" that:

"The benefit to the water department (from the installation of meters) should come primarily in the reduction of the investment cost otherwise required for new pumps, enlarged or new pumping stations, reservoirs, large mains, tunnels, aqueducts, filtration plants, etc."

The magnitude of the capital invested and to be invested per million gallons of water daily used or wasted has been previously shown in this report as follows:

	Value of Plant Completed	Millions of Gallons Consumed Daily	Cost per Million Gallons of Water Used or Wasted Daily
1914	\$227,237,027 46	508	\$447,317 00
1918	395,169,451 00	598	660,818 00
1925	433,933,976 00	695	624,365 00

It must further be borne in mind, that, under section 40 of Chapter 724 of the Laws of 1905, New York may also be obliged to supply certain towns and villages in Westchester County possibly to the extent of 20 million gallons of water daily.

Seen from any financial angle, a great extension of the metering of water in New York would seem to be a very desirable undertaking.

Extension of the meter service would, of course, have the effect of increasing the annual expenses in a comparatively small degree by the additional cost of inspecting and reading meters.

It should perhaps be also mentioned, that at the present time no charge is included in the department's expenses for rent of the offices occupied, or for the cost of books, stationery, etc. Further, no provision has been made for depreciation, obsolescence, etc., except by way of adjusting the non-landed assets, as shown.

The cost of street and park lighting, while steadily mounting, shows a tendency to increase less rapidly in recent years, as will be seen from the following tabulation. The figures include charges for the maintenance of lamp posts amounting to about 1.50 per cent. of the total expenditures:

Year.	Expenditures.	Increase Over Previous Year.	Percentage of Increase Over Pre- vious Year.
1908	\$2,774,764 02		
1909	2,925,147 89	\$150,383 87	5.42
1910	3,037,728 04	112,580 15	3.85
1911	3,190,121 48	152,393 44	5.02
1912	3,346,306 30	156,184 82	4.89
1913	3,416,295 62	69,989 32	2.10
1914	3,486,661 79	70,336 17	2.06

As shown in a previous statement, the principal increases in the cost of light, heat and power from 1909 to 1914 were:

	Per Cent.
Street and Park Lighting	18.51
Public Buildings and Structures:	
Illumination	39.15
Heat and Power	96.04

The total expenditures for light, heat and power in 1914 were \$4,820,656.83.

As regards the cost of inspection, previously stated at \$239,677.23, it appears that in addition to the work performed in connection with street and park lighting, lighting of public buildings and the inspection of installation of electric wiring and appliances in various city departments, other duties are performed, for which provision is made in the Greater New York Charter. These include:

(1) Inspection of electrical wiring, fixtures and appliances installed in buildings not occupied by the city government administration. (See section 524 of the City Charter.)

(2) Work done in connection with the granting of permits for electrical construction upon and underneath the highways. (See section 528 of the City Charter.)

(3) Work done in reference to the examination and licensing of moving picture operators. (See section 529a of the City Charter.)

In reference to this work efforts have of late years been made by the Department of Water Supply, Gas and Electricity, to impose a small fee for each license or permit granted, but the suggestions have hitherto failed to meet the approval of the Board of Aldermen. It is stated that the New York Board of Fire Underwriters and the Suburban Fire Insurance Exchange, who represent the fire insurance companies in this city, themselves charge fees for all inspections for the purpose of granting insurance on buildings, so that if the city also made a charge for inspections a double fee might have to be paid in some cases. It is, however, claimed that such costs of inspection should rightly be collected and paid into the city treasury.

The following figures give the number of applications, certificates issued and permits granted by the department for the years 1913 and 1914, respectively:

(1). *Inspection and Certificates of Inspection of Electrical Wiring and Appliances Installed in Buildings.*

	Number of Applications.	Certificates Issued.
1914	87,795	76,021
1913	84,015	73,704

(2) *Application for Permits for Electrical Construction Upon or Underneath the Highways.*

	1914.		1913.	
	Number of Appli- cations.	Permits Granted.	Number of Appli- cations.	Permits Granted.
Overhead Construction	37,371	36,948	36,999	36,609
Underground Construction	17,661	17,622	20,979	*21,044

*Note—Increase caused by overlaps of prior years.

(3) *Examining or Licensing Moving Picture Operators.*

	No. of Applications.	No. Examined.	No. Licensed.
1914	3,115	2,403	357
1913	2,551	2,216	176

It will be observed that in the examination of moving picture operators less than 15 per cent. of those examined were able to qualify in 1914, and in the prior year less than 8 per cent. were successful, so that much time is necessarily consumed in the case of those persons who fail to qualify.

Had it been possible to obtain a fee of one dollar (\$1.00) for each certificate issued or permit granted in the first and second cases exemplified, the revenue from this source for the year 1914 would have aggregated no less than \$130,591.00. To this sum might reasonably be added a fee for examination of moving picture operators to prove good faith, and a further charge of one dollar (\$1.00) for each license, to be renewed each year. This would have made the 1914 revenue from this source amount to \$3,472.00, or a total from all sources referred to of \$134,063.00, thereby reducing the total cost to the city of inspection for all purposes from \$239,677.23 to \$105,614.23.

In his annual report for 1914 the Commissioner of the Department of Water Supply, Gas and Electricity advocates the charging of a fee for the issuance of licenses to moving picture operators.

It is estimated that a yearly revenue of about \$20,000 will be received by reason of the recent ordinance providing that electricians must take out licenses before installing electrical work. This ordinance, which amends chapter 9 of the Code of Ordinances and took effect July 16, 1915, does not provide inspection fees, but relates to the licensing of master electricians in the same manner as master plumbers. The ordinance provides for a fee of \$10.00 for each license issued and thereafter an annual fee of \$5.00. Respectfully,

ROBERT B. MCINTYRE, Supervising Statistician and Examiner.

DEPARTMENT OF FINANCE.

WARRANTS MADE READY FOR PAYMENT IN DEPARTMENT OF FINANCE
SATURDAY, JUNE 24, 1916.

Below is a statement of warrants made ready for payment on the above date, showing therein the Department of Finance voucher number, the dates of the invoices or the registered number of the contract, the date the voucher was filed in the Department of Finance, the name of the payee and the amount of the warrant.

Where two or more bills are embraced in the warrant, the dates of the earliest and latest are given, excepting that, when such payments are made under a contract, the registered number of the contract is shown in the place of the second invoice date.

Where the word "final" is shown after the name of the payee, payment will not be made until thirty days after the completion and acceptance of the work, but all of the other warrants mentioned will be forwarded through the mail unless some reason exists why payment is to be made in person, in which event written notice will be promptly given to the claimant.

In making a written or verbal inquiry at this office for any of the above mentioned warrants, it is requested that reference be made by the Department of Finance voucher number.

WILLIAM A. PRENDERGAST, Comptroller.

Finance Voucher No.	Invoice Dates or Contract Number.	Received in Depart- ment of Finance.	Name of Payee.	Amount.
Board of Aldermen.				
8164	6-22-16		Alexander C. McNulty.....	\$200 00
8057	6-21-16		M. R. Kiernan	80 00
Armory Board.				
81094	4-22-16	6-1-16	Mehlen's Family Oil Works.....	3 40
81096	3-22-16	6-1-16	Cavanagh Brothers & Co.....	9 50
Department of Bridges.				
88359	6-1-16	6-19-16	Sibley, Pitman Electric Corporation....	15 60
88363	3-8-16	6-19-16	Ford Motor Company.....	27 38
84383	1-2-16. 1-6-16	6-12-16	Gulian Ross	540 89
81378	2-11-15. 5-20-16	6-12-16	The East River Mill and Lumber Co..	452 26
81380	6-1-16	6-12-16	The Harlem Stables Co., Inc.....	110 00
Bellevue and Allied Hospitals.				
87208			George A. White, Chief Clerk and Au- ditor	8 11
87207		6-19-16	Jessie A. Stowers, Supervising Nurse.	12 84
87202	5-13-16	6-19-16	Leo J. O'Hearn	6 00
87204	5-31-16	6-19-16	A. E. Aikman	8 55
87200		6-19-16	Dr. M. S. Gregory	5 50
87203		6-19-16	Mark L. Fleming	4 60
69479	3-14-15	5-2-16	Auto Maintenance Company.....	432 00
69626	3-14-16	5-3-16	Auto Maintenance Company.....	106 60
86344	4-25-16. 4-25-16	6-15-16	D. B. Pershall & Son.....	12 16
86340	5-15-16	6-15-16	Frank E. Haynes & Son.....	9 00
86342	4-26-16. 5-5-16	6-15-16	Julius Fowl	87 50
86343	4-22-16. 4-26-16	6-15-16	The Hospital Supply Co.....	31 15
89135		6-21-16	The Louisa Minturn Hospital.....	321 43
Municipal Civil Service Commission.				
8082	6-22-16		Jesse Larimer	40 00
Board of Coroners.				
88676	6-20-16		Ernest C. Wagner	10 00
County Court, Queens County.				
84074	5-18-16	6-10-16	J. E. Tench	235 00
Children's Court.				
88397			Adolphus Ragan, Chief Clerk	236 05
Court of Special Sessions.				
86758	5-31-16	6-10-16	Tower Manufacturing & Novelty Co..	1 00
86755	4-1-16	4-16-16	Brooklyn Daily Eagle.....	1 00
86760	5-15-16	6-10-16	The Legislative Index Publishing Co.	50 00
86759	5-29-16	6-10-16	Schulte's Book Store.....	5 00
86757	4-25-16	6-10-16	The Banks Law Publishing Co.....	3 25
Court of General Sessions.				
84339	6-6-16	6-12-16	M. A. Gilligan	124 50
84336		6-12-16	Frank J. Ryan	175 00
84333		6-12-16	M. A. Gilligan	207 00
84332		6-12-16	Michael J. Cassidy	200 00
84331		6-12-16	James Moran, M. D.....	200 00
84330		6-12-16	Winter Russell	200 00
84338		6-12-16	Joseph M. Kelly	175 00
84337		6-12-16	Foster S. Haven, M. D.....	175 00
Supreme Courts.				
84352	6-10-16	6-12-16	The Banks Law Publishing Co.....	267 60
86205	3-27-16	6-15-16	Lennon & Company.....	7 50
Department of Correction.				
86653	4-28-16	6-10-16	Bramhall, Deane Co.....	4 75
88892		6-20-16	Burdette G. Lewis, Commissioner ..	219 25
88893	6-15-16	6-20-16	Frank W. Fox, Warden.....	3 76
71115	12-31-15	5-6-16	J. P. Duffy Company.....	98 30
76332	12-31-15	5-20-16	J. P. Duffy Company.....	68 90
84455	5-18-16	6-18-16	C. H. F. Jurgens	107 28
84457	5-4-16	6-12-16	James A. Miller	111 14
84463	5-16-16. 5-25-16	6-12-16	James S. Barron & Co.....	222 00
84469	4-7-16. 5-23-16	6-12-16	Jas. S. Barron & Co.....	163 40
District Attorney, Kings County.				
83706	4-27-16. 5-18-16	6-10-16	George Rea	\$20 40
88562			Harry E. Lewis, District Attorney....	134 00
District Attorney, New York County.				
83567		6-9-16	Walter J. Jones.....	\$316 50
84368	6-7-16	6-12-16	Peter P. McLoughlin.....	447 90
84365	6-7-16	6-12-16	Edward J. Shalvey.....	124 40
84364	6-1-16	6-12-16	Bartholomew Moynahan	500 60
84367	6-7-16	6-12-16	Peter P. McLoughlin.....	385 30
83568		6-9-16	William T. Fishbough.....	241 30
Department of Docks and Ferries.				
89590	5-31-16	6-21-16	Long Island Railroad Company.....	\$18 30
Board of Estimate and Apportionment.				
88938	6-1-16	6-20-16	Charles P. Berkey.....	\$78 54
7938		6-20-16	Charles P. Berkey.....	12 50
Department of Education.				
89345	3-8-16	6-21-16	New Jersey Manufacturing Co.....	\$3 60
89341	3-6-16	6-21-16	The Macmillan Co.	1 28
89340	3-11-16	6-21-16	Library Bureau	11 80
89346	3-18-16	6-21-16	Spon & Chamberlain.....	1 25
89339	2-16-16	6-21-16	Warwick & York, Inc.....	3 23
89335	2-18-16	6-21-16	Wm. Bratter & Co.....	50
86579	3-25-16	6-16-16	The Yale & Towne Mfg. Co.....	47 45
89348	3-15-16	6-21-16	H. C. Davison & Co.....	47 00
87254	3-27-16	4-19-16	Johnson & Johnson.....	9 60
89236	2-28-16	6-21-16	Longmans, Green & Co.....	3 32
89230	3-3-16	6-21-16	The Macmillan Co.	14 00
89220	3-7-16	6-21-16	Houghton Mifflin Co.....	37 50
86554	4-10-16	6-16-16	Philip Simberg	42 00
86547	4-14-16	6-16-16	M. Kalmus	41 00
86548	3-28-16. 4-16-16	6-16-16	J. Friedman	68 40
86570	3-1-16. 3-9-16	6-16-16	Thos. J. Tuomey Co.....	38 58
87288	3-31-16	6-19-16	F. E. Folsom Co., Assignee of Peerless Manifold Book Co.	9 20
87270	2-16-16	6-19-16	L. L. Poates Publishing Co.....	95
87233	5-8-16	6-19-16	B. E. Gfroerer	18 83
87238	4-14-16	6-19-16	D. J. Carey	20 65
87262	3-28-16	6-19-16	The H. C. Hansen Type Foundry....	9 33

Finance Voucher No.	Invoice Dates or Contract Number	Received in Department of Finance.	Name of Payee.	Amount.	Finance Voucher No.	Invoice Dates or Contract Number.	Received in Department of Finance.	Name of Payee.	Amount.
85908			General Motors Truck Company	2 50	88510	5-31-16	6-19-16	Charles Coords	9 50
85909			Firestone Tire and Rubber Company, Inc.	2 04	88508	6- 1-16	6-19-16	Adams Brothers	9 00
85903	5- 9-16	6-15-16	J. M. Gottesman	23 38	88507	5-31-16	6-19-16	Thomas J. Fenley	5 00
85904	5- 5-16	5-20-16	Hull, Grippen & Co.	2 30	88501	5-18-16	6-19-16	Thomson Meter Co.	15 80
85905	4-20-16	6-15-16	Mercantile Warehouse Co.	62 23	88500	6- 1-16	6-19-16	George Good	1 15
86398	5- 2-16	6-16-16	Michael Durack	15 50	88499	6- 1-16	6-19-16	C. J. Dunning	3 10
Sheriff, Bronx County.					88498	6- 1-16	6-19-16	James MacNamara's Sons.....	27 25
89034		1-20-16	Timothy J. Duane, Dep. Sheriff.....	\$12 36	88497	5-31-16	6-19-16	Harry McLean	15 00
89033		6-20-16	Henry Nimphius, Asst. Dep. Sheriff..	14 85	88516	5-12-16	6-19-16	Ford Motor Company	13 17
83101	6- 1-16	6- 8-16	Bronx Grocery Co., Inc.	178 24	87174	4-14-16	6-17-16	Henry R. Worthington.....	4 65
83104	6- 2-16	6- 8-16	Adams Flanigan Co.	35 45	87164	5- 9-16	6-17-16	Samuel Kriesel	4 76
83099			James T. Mohan	108 10	87175	4- 5-16	6-17-16	Henry R. Worthington.....	16 92
Department of Street Cleaning.					87173	5-15-16	6-17-16	M. Glassman	3 55
88606	6- 1-16	6- 6-16	John Morton's Sons Co.	\$69 90	88832	6-10-16	6-20-16	Nelson H. Henry, Water Register.....	144 71
88641	6-15-16	6-20-16	Raymond B. Carver	81 50	88831	5-31-16	6-20-16	Thomas F. Bannon, Clerk.....	32 00
Board of Water Supply.					85454		43909	The Flatbush Gas Co.	5 00
73300	4-28-16	5-12-16	Central Hudson Gas & Electric Co....	\$2,132 38	87016		6-16-16	Charles W. Rennie, Inspector.....	284 09
Department of Water Supply, Gas and Electricity.					87015	5-31-16	6-16-16	John T. Metcalf, Assistant Engineer..	6 88
87184		6-17-16	A. V. Pearsall	\$15 00	87014	5-31-16	6-16-16	Michael Tallent, Inspector	45 52
89785			F. X. D'Ossone, Collector of Taxes, Village of Mt. Kisco	7,386 54	84439		43115	Soraci Contracting Company.....	10,724 28
89783		6-21-16	Charles A. Adams, Collector of Taxes, Irvington	294 99	84400	3-26-16	6-12-16	Pattison & Bonns.....	529 01
84437	43920		The New York Edison Co.	1,886 65	84440		39727	Rockport Granite Co., Assignee of George Stanton	1,148 50
88834		6-20-16	W. H. Crane, Collector of Taxes, Village of Brewster, Town of Southeast, N. Y.	289 10	84412			John Fox & Co.	298 80
88835		6-20-16	A. Van Houten, City Treasurer, City of Yonkers, Westchester Co., N. Y....	748 43	84430	4-29-16	6-12-16	Morgan Contracting & Repair Co....	117 00
88509			Edward H. Dilger	12 50	84425	5-20-16	6-12-16	Bureau of Highways, President of the Borough of Brooklyn.....	598 65
88511	5-31-16	6-19-16	William J. Sullivan	10 50	84424	5-17-16	6-12-16	Pratt & Cady Co., Inc.....	647 50
					84429	5-30-16	6-12-16	Bureau of Highways, President of the Borough of Brooklyn.....	500 00
					84406	5-18-16	6-12-16	Watson Manufacturing Co.....	372 40
					84436	5- 4-16	6-12-16	Thos. C. Dunham, Inc.....	21 53
					88505		6-19-16	Bernard McAneny	60 00
					88506		6-19-16	William M. Sullivan.....	60 00

VOUCHERS RECEIVED IN DEPARTMENT OF FINANCE, SATURDAY, JUNE 24, 1916.

A statement is herewith submitted of all vouchers filed in the Department of Finance on this date, in which is shown the Department of Finance voucher number, the date of the invoices or the registered number of the contract, the name of the payee and the amount of the claim. Where two or more bills are embraced in one voucher the date of the earliest is given, excepting that when such vouchers are submitted under a contract the registered number of the contract is shown instead.

WILLIAM A. PRENDERGAST, Comptroller.

Finance Voucher No.	Invoice Date or Contract Number.	Name of Payee.	Amount.
Bellevue and Allied Hospitals.			
90990		John W. Brannan, M. D....	\$300 00
District Attorney, Queens County.			
91106	6-20-16	Denis O'Leary	\$7 27
91107		William Borges	10 52
91108		Charles J. Dalzell	20 14
91109		James H. Nix	31 41
91110		John J. Gavin	23 16
91111		D. O. Churchill	21 26
District Attorney, New York County.			
91308	6-23-16	Cobb-Macey-Dohme, Inc. ..	\$486 35
91309	5-31-16	W. & J. Sloane	423 10
91298	5-31-16	J. J. Little & Ives Co....	73 50
91299		New York Law Journal....	199 50
91300	5-26-16	Western Union Tel. Co....	19 54
91301		A. D. Rathbone	68 70
91302	6- 5-16	J. Sprattler	25 00
91303		B. W. Vosburgh	33 45
91304		Grover C. Brown	12 00
91305	6- 8-16	Frank Tourist Co.	65 10
91306	6-10-16	Greenhut Co.	17 91
91307		John T. Dooling	44 20
Department of Correction.			
91004	6-14-16	Knickerbocker Supply Co..	\$1 75
91005	5-31-16	Manhattan Elec. Supply Co.	93 04
91006	5-26-16	Nason Mfg. Co.	13 62
91007	6-14-16	James S. Barron & Co....	8 70
91008	6- 7-16	Crandall Packing Co....	6 09
91009	5-26-16	Fairbanks, Morse & Co....	24 08
91010	6- 5-16	Goodwin-Gallagher Sand & Gravel Corp.	213 60
91011	5-29-16	Harder Mfg. Co.	80 00
91012	6- 7-16	Chas. H. Heinsohn	17 48
91013	6- 7-16	Chas. H. Heinsohn	17 48
91014	5- 3-16	Hull, Grippen & Co....	23 80
91015	5-19-16	Hull, Grippen & Co....	15 67
91016	6- 1-16	E. T. Joyce	148 99
91017	6- 7-16	E. F. Keating Co.	416 49
91018	5-22-16	Knickerbocker Supply Co..	2 20
91019	5-31-16	John P. Kane Co.	13 50
91020	5-31-16	E. B. Latham & Co....	1 26
91021	6- 2-16	De La Vergne Machine Co.	2 05
91022	6- 7-16	Manhattan Hardware & Bicycle Co.	103 50
91023	6- 8-16	Montgomery & Co.	23 75
91024	6-16-16	Nason Mfg. Co.	5 40
91025	5-18-16	W. R. Ostrander & Co....	11 00
91026	6-15-16	The Tabulating Machine Co.	1 04
91027	6-14-16	Valleau Quinn Corp.	10 26
91028	4-17-16	Art Metal Constr. Co....	45 00
91029	6-14-16	Chas. J. Eichman	8 00
91030	5-31-16	G. Haussler & Bro....	8 10
91031	5-20-16	Hull, Grippen & Co....	2 50
91032	6-10-16	Kipp Wagon Co.	110 00
91033	5-31-16	J. & J. Marcus	1 75
91034	5-31-16	M. Reidy	8 00
91035	6- 9-16	East Side Horse Clipping Establishment	18 00
91036	5-31-16	P. J. McCordle	82 00
91037	5-10-16	E. F. Keating Co.	53 53
90991	5-24-16	Deming & Co.	240 00
90992	5-31-16	Swift & Co.	107 90
90993	5-16-16	Benj. Horton	93 08
90994	6-13-16	Standard Oil Co. of N. Y..	25 92
90995	5-31-16	Lawrence Commercial Garage	48 04
90996	6- 3-16	John Greig	237 24

Finance Voucher No.	Invoice Date or Contract Number.	Name of Payee.	Amount.
90997	6- 9-16	Adam Cook's Sons	10 00
90998	6- 2-16	Edmond L. Tichenor	6 41
90999	6-14-16	S. A. French	28 50
91000	6- 3-16	Ayres & Galloway Hardware Co.	2 05
91001	6- 7-16	J. W. Buckley Rubber Co..	18 40
91002	5-29-16	The Croker Nat'l Fire Prev. Eng. Co.	95 40
91003	6- 6-16	Hull, Grippen & Co....	2 25
Department of Education.			
91237	41125	Fred Gretsck Mfg. Co....	152 00
91231	41645	D. Appleton & Co....	5 91
91232	41643	World Book Co.	90 75
91233	41640	Scott, Foresman & Co....	7 60
91234	41650	Silver, Burdett & Co....	146 64
91235	41632	Underwood & Underwood..	29 20
91221	44018	Brooklyn Lumber Co....	142 68
91222	42826	The H. M. Rowe Co....	1 13
91223	44082	E. W. A. Rowles	61 50
91224	44078	McHutchison & Co....	222 87
91225	44414	Metropolitan Supply Co....	49 43
91226	44060	Jas. S. Baron & Co....	42 30
91227	44516	Scott, Foresman & Co....	37 60
91228	44061	Milton, Bradley Co....	57 00
91229	44494	The Century Co.	98
91230	44417	Kalt Lumber Co....	11 92
91236	44130	E. Steiger & Co....	27 40
91174	3- 8-16	Montgomery & Co....	15 48
91175	3- 7-16	Thomas Nelson & Sons....	24 00
91176	3-18-16	Wards Natural Science Establishment	3 50
91177	4- 1-16	Abraham Levy	8 70
91178	4- 1-16	Henry Allen	50
91179	3-16-16	The Fairbanks Co....	7 25
91180	3-16-16	Sol Lazarus	88 45
91181	3- 2-16	The A. R. Ohman Map Co..	22 50
91182	3-16-16	Wm. Elliott & Sons	2 00
91183	3-17-16	Library Bureau	9 90
91184	7-15-15	Langslow Fowler Co....	141 25
91185	1-15-16	The J. W. Pratt Co....	47 00
91186	2-28-16	Betts & Betts Corp....	289 00
91187	8-24-15	A. Pearson's Sons	84 00
91188	1-18-16	The H. C. Hansen Type Foundry	232 95
91186	3-13-16	B. Altman & Co....	71 00
91190	2-24-16	The Globe Wernicke Co....	27 55
91201	41634	The Universal Co....	266 50
91202	41722	Irving Pitt Mfg. Co....	26 70
91203	44489	Allyn & Bacon	214 70
91204	44028	Favor, Ruhl & Co....	5 25
91205	41671	The A. N. Palmer	3 20
91206	41646	The Baker & Taylor Co....	3 90
91207	41761	John Wiley & Sons, Inc....	2 65
91208	41720	The Gregg Pub. Co....	58 75
91209	44308	Benj. Sandman	72 00
91210	41640	Scott, Foresman & Co....	31 70
		Scott, Foresman & Co....	23 28
		Scott, Foresman & Co....	336 71
		Scott, Foresman & Co....	132 34
91211	44168	Peerless Manifold Book Co.	644 73
		Peerless Manifold Book Co.	281 00
91191	2-28-16	Houghton, Mifflin Co....	1 88
91192		National Kindergarten College	2 32
91193	2-28-16	Longmans, Green & Co....	6 76
91194	2-29-16	Charles Scribner's Sons ...	7 40
91195	3- 6-16	The Bobbs, Merrill Co....	40
91196	3-16-16	The Baker & Taylor Co....	8 00
		The Baker & Taylor Co....	1 50
91198	3-13-16	Department of Correction..	2 23
91199	3-31-16	Anne G. Van Aken	4 85
91212	41354	H. T. Dakin	82
91213	41678	Scientific Equipment Co....	59 00
91214	40506	Jos. D. Duffy	5,622 08
91215	43424	Jandous Electric Equipment Co., Inc.	720 00
91216	43757	T. Fredk Jackson, Inc....	1,080 00
91217	44820	Jandous Electric Equipment Co., Inc.	450 00
91218	43824	J. & C. Fischer	337 50
91219	43666	Narragansett Machine Co..	1,960 00

Finance Voucher No.	Invoice Date or Contract Number.	Name of Payee.	Amount.
91220	44626	Harry Klein	463 50
91200	3-23-16	Singer Sewing Machine Co.	3 30
Fire Department.			
91113		Robt. Adamson, Trustee and Treasurer, N. Y. Fire Dept. Relief Fund	\$1 00
91135	6-12-16	Henry Frank, Jr.....	1 32
91136	4-22-16	Detroit Cadillac Motor Car Co.	26 95
91137	6-14-16	Livingston Radiator & Mfg. Co.	13 25
91138	6-13-16	Meder-Staudt Co., Inc....	5 00
91139	6-12-16	Isaac Hoffman	365 00
91140	5- 6-16	Samuel Wander	35 00
91141	6- 7-16	Jos. A. Graf	79 00
91142	5-12-16	Bernard Knopp	53 00
91143	6-16-16	A. Wissel's Son	13 50
91122	5-24-16	American Hand Laundry..	2 28
91123	3-31-16	Elizabeth Dunn	7 23
91124	4-26-16	Real Estate Directory Co., Inc.	25 00
91125	5-31-16	Knickerbocker Towel Supply Co.	2 50
91126	5-31-16	National Press Intelligence Co.	20 00
91127	5-24-16	Crown Stamp Works	2 90
91128	5-13-16	Henry Salter	60 91
91129	6- 9-16	Standard Oxygen Co....	9 90
91130	6-12-16	D. B. Pershall & Son.....	14 50
91131	6- 4-16	Globe Tire Co.	17 10
91132	5-22-16	Ford Motor Co.	3 40
91133	6- 9-16	Buick Motor Co.	48 40
91134	-10-16	International Motor Co....	2 24
91115	44485	Wm. Farrell & Son.....	761 15
91116	44854	Standard Oil Co. of N. Y..	1,718 64
91117	1689	H. W. Johns-Manville Co..	1,232 00
91118	44713	H. T. Dakin	53 60
91119	44400	Fred'k Pearce Co....	144 00
		Fred'k Pearce Co....	19 60
		Frederick Pearce Co....	47 63
91120	44980	F. N. Dubois & Co....	17 06
91121	44640	N. Z. Graves Corp....	274 65
91114	44898	The Front Drive Motor Co.	14,435 00
Law Department.			
90989		Lamar Hardy	\$200 00
Miscellaneous.			
91247		Industrial School Association of Brooklyn, E. D....	2,832 50
91248		International Sunshine Branch for the Blind	908 00
91249		Missionary Sisters, Third Order of St. Francis.....	9,297 49
91249		Methodist Episcopal Hospital in City of Brooklyn.....	1,052 75
91251		Methodist Episcopal Hospital in City of Brooklyn.....	1,009 57
91252		Orphan Asylum Society of the City of Brooklyn.....	1,744 64
91253		St. Peter's Hospital	1,347 95
91254		St. John's Long Island City Hospital	2,356 00
91255		The Children's Home at Mineola, N. Y.	274 64
91256		The Swedish Hospital in Brooklyn	274 64
91038		Kate Miles, administratrix, estate Wm. Miles	5 33
91039		Payson Merrill, executor, Isabella G. Francis	21 00
91040		Geo. G. Hallock, Jr., & Sons	40 00
91041		Sudel Hyman	14 00
91042		Herbert Baum	27 00
91043		Herbert Baum	43 00
91044		Solomon Phillips	5 00
91045		John K. Moore	51 00
91046		Isaac L. Silberberg	7 00
91047		Bastine & Co.	17 00
91048		Jos. P. Day	9 00
91049		L. L. Williams	29 00
91050		U. S. Trust Co. of N. Y.,	

Invoice Finance Date Vouch- or Con- tract No. tract Number.	Name of Payee.	Amount.	Invoice Finance Date Vouch- or Con- tract No. tract Number.	Name of Payee.	Amount.	Invoice Finance Date Vouch- or Con- tract No. tract Number.	Name of Payee.	Amount.
91051	trustee under will of Josephine Lazarus	11 00	91258	Mary E. Hearn	11 32	91163	5-31-16 Dieges & Clust	1 50
	Lincoln Trust Co., trustee under will Francis W. Hutchins	8 00	91259	Collector of Assessments & Arrears	33 12	91164	6-1-16 Geo. Horan	19 26
91052	Katz & Co.	167 00	91260	Emma Anshel	2 48	91165	5-31-16 Isner Elevator Co., Inc.	41 00
91053	Katz & Co.	95 00	91261	Sara Curry	18 08	91166	6-2-16 Jos. J. Schultz & Co.	445 46
91054	Convent Court Corp.	128 00	91262	Catherine Mulvihill	23 07	91167	6-1-16 The Rapid Safety Filter Co.	4 00
91055	Senior & Stout, Inc.	9 00	91263	Otto W. Gudenfels	5 93	President of the Borough of Brooklyn.		
91056	Duff & Conger	17 00	91264	Est. Rosanna Hart Deck	2 00	91310	44164 Bacon Coal Co.	\$4,838 72
91057	Luana Corporation	5 00	91265	Thos. McCormick	1 05	91311	44450 Harry D. Geletter	875 00
91058	R. J. McGowan	9 00	91266	Cora Anderson	5 66	91312	44345 New York Telephone Co.	454 22
91059	E. M. Timmins	29 51	91267	Julia Dempsey	10 33	91313	44737 Murphy Bros.	485 65
91060	J. M. Corduke	17 00	91268	South Atlantic Realty Co.	19 84	91314	43050 Northeastern Const. Co.	1,996 65
91061	Pierre M. Clear, agent for owners	5 55	91269	Mary C. Whearty	3 66	91315	44604 Murphy Bros.	1,278 48
91062	Title Guarantee & Trust Co.	53 00	91270	Emma Diehm	3 85	Public Service Commission.		
91063	Simon Cyge	11 33	91271	Eva V. C. Hawkes	70 44		Upper Hudson Stone Co.	\$2,642 00
91064	Richard H. Morrison	14 00	91272	Ashton De Peyster	21 65		L. D. Rockwell	1,936 85
91065	Mabel R. Moore	10 00	91273	Caroline Klees	7 39		Long Leaf Pine Co., Inc.	2,682 42
91066	Charlotte Geissler	12 00	91274	Baldassarre Paglinca	1 00		E. E. Smith Contracting Co.	610 06
91067	Carl H. Richardson, trustee in bankruptcy for est. Fredk. P. Forster	28 00	91275	Anton Tittels	18 08		The Snare & Triest Co.	5,712 95
91068	Samuel Freedman	53 00	91276	Title Guarantee & Trust Co.	1 14		E. E. Smith Contracting Co.	1,000 00
91069	Estate of Bessie Hartman Auerbach	2 00	91277	Theodore Riehl	22 28		The Snare & Triest Co.	3,875 42
91070	Title Guarantee & Trust Co.	19 00	91278	Salter & Steinkamp	36 45		Coast & Lakes Contracting Corp.	904 91
91071	Emeline C. Reckerson	5 00	91279	Chas. Bermel	20 48		Rapid Transit Subway Construction Company	6,000 00
91072	Jos. Schwartz, trustee, estate Simon Strauss, deceased ..	54 35	91280	Susan H. Rudd	8 34		Rapid Transit Subway Construction Company	200 00
91073	Jos. Schwartz, trustee, estate Simon Strauss, deceased ..	20 67	91281	Title Guarantee & Trust Co.	247 02		E. E. Smith Contracting Co.	1,000 00
91074	Hardy, Stancliffe & Whitaker	24 20	91282	Gatehouse Bros., Inc.	31 99		Rapid Transit Subway Construction Company	3,000 00
91075	Duross Co.	9 00	91283	Chas. Bermel	9 21		Rodgers & Hagerty, Inc.	2,170 40
91076	Receiver of Taxes	47 50	91284	Koppel Cohen	16 48		Dock Contractor Company ..	9,500 00
91077	Receiver of Taxes	7 25	91285	Heinrich Solomon et al.	19 03		Dock Contractor Company ..	795 00
91078	Receiver of Taxes	2 30	91286	Jas. B. Mackelvey	96		The Empire Construction Co.	8,504 13
91079	Receiver of Taxes	65 20	91287	The State Bank	1,130 02		Cooper & Evans Co.	2,306 70
91080	Receiver of Taxes	30 48	91288	Max Feigenbaum, Ruben Feigenbaum et al.	2 15	Department of Water Supply, Gas and Electricity.		
91081	Receiver of Taxes	5 41	91289	J. L. Ehrenkrauss & Sons ..	10 00	91096	43908 Edison Electric Ill. Co. of Brooklyn	347 92
91082	Receiver of Taxes	2 07	91290	John Kiley	8 23	91097	43911 New York and Queens Electric Light & Power Co.	344 28
91083	Receiver of Taxes	37 15	Public Administrator, Bronx County.			91098	44173 Queens Borough Gas and Electric Co.	372 91
91238	Association for Befriending Children and Young Girls, House of the Holy Family ..	898 22	91112	Sibley Pitman Electric Corp.	\$13 50	91099	44173 Queens Borough Gas and Electric Co.	246 70
91239	American Female Guardian Society and Home for the Friendless	993 57	91104	Ernest E. L. Hammer	10 00	91100	43906 Richmond Light and Railroad Co.	370 35
91240	Brooklyn Industrial School and Home for Destitute Children	2,471 79	91105	New York Telephone Co.	7 60	91101	43907 The Edison Electric Ill. Co. of Brooklyn	2,035 19
91241	Brooklyn Home for Blind, Crippled and Defective Children	4,572 93	91168	6-1-16 Chas. G. Knies	\$25 00	91102	42254 Knight & De Micco	118 17
91242	Blythedale Home for Tubercular Crippled Children.	394 30	91169	6-15-16 The E. R. Merrill Spring Co.	15 00	91103	44686 John Fox & Co.	848 85
91243	Brooklyn Nursery and Infants Hospital	694 83	91170	6-13-16 Stewart Warner Speedometer Co.	2 25	91084	42993 Chas. D. Norton Co.	764 80
91244	Children's Aid Society	4,799 19	91171	6-6-16 Frederick Stuft	308 00	91085	43908 Edison Electric Ill. Co. of Brooklyn	10 00
91245	Hebrew Sheltering Guardian Society	13,001 22	91172	5-1-16 Rutherford Rubber Co.	27 85	91086	43906 Richmond Light & R. R. Co.	13,435 18
91246	Hope Farm	2,106 57	91173	5-7-16 Colt, Stratton Co.	3 93	91087	43910 The Bronx Gas & Electric Co.	109 20
91291	Vincent Astor	62 77	91144	6-10-16 Robt. Gordon & Son, Inc.	5 20	91088	43904 The United Electric Light & Power Co.	2,097 50
91292	6-21-16 Luigi Spaventa & Co., assignee of A. Sylverto	1 20	91145	6-8-16 Powers Accounting Machine Co.	77 70	91089	44149 The Bronx Gas & Electric Co.	113 02
91293	6-21-16 Elijah Koral	1 25	91146	6-1-16 Theo. Moss & Co.	2 16	91090	43908 The Edison Electric Ill. Co. of Brooklyn	736 98
91294	Samuel Parnass	198 00	91147	6-10-16 Eimer & Amend	10 95	91091	44173 Queens Borough Gas and Electric Co.	72 40
91295	Katherine Decker	75 00	91148	6-7-16 Prestolite Co.	3 50	91092	44173 Queens Borough Gas and Electric Co.	126 00
91296	6-21-16 Peter King	36 77	91149	5-25-16 The New Jersey Wire Cloth Co.	167 32	91093	43911 New York and Queens Electric Light & Power Co.	1,423 10
91297	6-21-16 Leah Press	15 00	91150	6-15-16 Art Metal Const Co.	429 00	91094	43911 New York and Queens Electric Light & Power Co.	1,859 06
91257	Edwin B. Bissell	13 74	91151	5-31-16 J. H. Bunnell & Co.	22 79	91095	43920 The New York Edison Co.	2,050 32
			91152	3-21-16 Manhattan Desk Co.	194 40			
			91153	5-8-16 Topping Bros.	57 10			
			91154	5-25-16 F. N. Dubois & Co.	3 83			
			91155	6-1-16 M. Goodwin & Co.	1 20			
			91156	6-6-16 Hammacher, Schlemmer Co.	10 42			
			91157	3-31-16 Frank Richards & Gardner Co.	2 33			
			91158	5-16-16 Reading Iron Co.	380 00			
			91159	6-3-16 American Railway Supply Co.	6 00			
			91160	6-9-16 C. Frank Boughton	12 77			
			91161	5-13-16 J. Mohr	3 00			
			91162	6-2-16 Frederick Aldhous	5 00			



OFFICIAL DIRECTORY.

Unless otherwise stated, the Public Offices of the City are open for business from 9 a. m. to 5 p. m.; Saturday, 9 a. m. to 12 noon.

CITY OFFICES.

MAYOR'S OFFICE.
City Hall. Telephone, 8020 Cortlandt.
John Purroy Mitchell, Mayor.
Theodore Rousseau, Secretary.
Samuel L. Martin, Executive Secretary.
Bureau of Weights and Measures.
Municipal Building, 3d floor. Telephone, 1498 Worth.

JOSEPH HARTIGAN, Commissioner.
COMMISSIONER OF ACCOUNTS.
Municipal Building. Telephone, 4315 Worth.
Leonard M. Wallstein, Commissioner of Accounts.

BOARD OF ALDERMEN.
Clerk's Office, Municipal Building, 2nd floor. Telephone, 4430 Worth.
P. J. Scully, Clerk.
President of the Board of Aldermen.
City Hall. Telephone, 6770 Cortlandt.
Frank L. Dowling, President.

BOARD OF AMBULANCE SERVICE.
Municipal Building, 10th floor. Ambulance Calls, 3100 Spring. Administration Offices, 748 Worth.

ARMORY BOARD.
Hall of Records. Telephone, 3900 Worth.
C. D. Rhinehart, Secretary.

ART COMMISSION.
City Hall. Telephone, 1197 Cortlandt.
John Quincy Adams, Assistant Secretary.

BOARD OF ASSESSORS.
Municipal Building, 8th floor. Telephone, 29 Worth.
William C. Ormond, Chairman.
St. George B. Tucker, Secretary.

BELLEVUE AND ALLIED HOSPITALS.
26th st. and 1st ave. Telephone, 4400 Madison Square.

Dr. John W. Brannan, President.
J. K. Paulding, Secretary.

CENTRAL PURCHASE COMMITTEE.
Municipal Building, 12th floor. Telephone, 4227 Worth.

Director.
BUREAU OF THE CHAMBERLAIN.
Municipal Building, 8th floor. Telephone, 4270 Worth.

BOARD OF CHILD WELFARE.
Milo R. Maltbie, Chamberlain.
City Hall. Telephone, 7541 Cortlandt.

HARRY L. HOPKINS, Secretary.
CITY CLERK AND CLERK OF THE BOARD OF ALDERMEN.
Municipal Building, 2nd floor. Telephone, 4430 Worth.
P. J. Scully, City Clerk.

BOARD OF CITY RECORD.
Supervisor's office, Municipal Building, 8th floor. Distributing Division, 96 Reade st. Telephone, 3490 Worth.

DAVID FERGUSON, Supervisor.
DEPARTMENT OF CORRECTION.
Municipal Building, 24th floor. Telephone, 1610 Worth.

Burdette G. Lewis, Commissioner.
DEPARTMENT OF DOCKS AND FERRIES.
Pier "A," North River. Telephone, 300 Rector.
E. A. C. Smith, Commissioner.

DEPARTMENT OF EDUCATION.
Board of Education.
Park ave. and 59th st. Telephone, 5580 Plaza.
Said meetings of the Board are held at 4 p. m. on the first Monday in February, the second Wednesday in August, and the second and fourth Wednesdays in every month, except August.

William G. Willcox, President.
BOARD OF ELECTIONS.
General office and office of the Borough of Manhattan, Municipal Building, 18th floor. Telephone, 1307 Worth.

Edward F. Boyle, President.
Moses M. McKee, Secretary.
Other Borough Offices.
The Bronx.
368 E. 148th st. Telephone, 336 Melrose.

Brooklyn.
435-445 Fulton st. Telephone, 1932 Main.

Queens.
64 Jackson ave., L. I. City. Telephone, 3375 Hunters Point.

Richmond.
Borough Hall, New Brighton, S. I. Telephone, 1000 Tompkinsville.

All offices open from 9 a. m. to 4 p. m. Saturdays to 12 noon.

BOARD OF ESTIMATE AND APPOINTMENT.
Municipal Building, 13th floor. Telephone, 4560 Worth.

Joseph Haag, Secretary.
Bureau of Records and Minutes.
Municipal Building, 13th floor. Telephone, 4560 Worth.

Joseph Haag, Secretary.
Office of the Chief Engineer.
Municipal Building, 13th floor. Telephone, 4560 Worth.

Nelson P. Lewis, Chief Engineer.
Bureau of Public Improvements.
Municipal Building, 13th floor. Telephone, 4560 Worth.

Nelson P. Lewis, Chief Engineer.
Bureau of Franchises.
Municipal Building, 13th floor. Telephone, 4563 Worth.

Harry P. Nichols, Engineer.
Bureau of Contract Supervision.
Municipal Building, 13th floor. Telephone, 4560 Worth.

Central Testing Laboratory, 125 Worth st. Telephone, 3088 Franklin.
Tilden Adams, Director.
Bureau of Standards.
Municipal Building, 13th floor. Telephone, 4560 Worth.

George L. Tirrell, Director.
BOARD OF EXAMINERS.
Municipal Building, 20th floor, 9 a. m. to 4 p. m. Saturday, to 12 noon. Telephone, 1800 Worth.

Board meets every Tuesday at 2 p. m.
Edward V. Barton, Clerk.
DEPARTMENT OF FINANCE.
Municipal Building, 5th floor. Telephone, 1200 Worth.

Shepard A. Morgan, Secretary to the Department, 5th floor.
Deputy Comptroller, 7th floor.
Alexander Brough, Edmund D. Fisher, Albert E. Hadlock, Hubert L. Smith.
Receiver of Taxes.
Manhattan—Municipal Building, 2nd floor. Telephone, 1200 Worth.

Brooklyn—177th st. and Arthur ave. Telephone, 140 Tremont.
Brooklyn—236 Duffield st. Telephone, 7056 Main.
Queens—5 Court Square, L. I. City. Telephone, 3386 Hunters Point.
Richmond—Borough Hall, St. George. Telephone, 1000 Tompkinsville.
William C. Hecht, Receiver of Taxes.
Collector of Assessments and Arrears.
Manhattan—Municipal Building, 3d floor. Telephone, 1200 Worth.

Brooklyn—177th st. and Arthur ave. Telephone, 47 Tremont.
Brooklyn—503 Fulton st. Telephone, 8340 Main.

Queens—Municipal Building, Court Square, L. I. City. Telephone, 1553 Hunters Point.
Richmond—Borough Hall, St. George. Telephone, 1000 Tompkinsville.
Daniel Moynahan, Collector.

FIRE DEPARTMENT.
Municipal Building, 11th floor. Telephone, 4100 Worth.

Brooklyn, 365 Jay st. Telephone, 7600 Main.
Robert Adamson, Commissioner.

DEPARTMENT OF HEALTH.
Centre and Walker sts., Manhattan. Telephone, 6280 Franklin.

Bureau of Health.
Burial Permit and Contagious Disease offices always open.

Brooklyn, 3731 Third ave. Brooklyn, Flatbush ave., Willowbury and Fleet sts. Queens, 372 Fulton st., Jamaica. Richmond, 514 Bay st., Stapleton.
Haven Emerson, Commissioner.
Eugene W. Scheffer, Secretary.

BOARD OF INDEBTEDNESS.
300 Mulberry st. Telephone, 7116 Spring.

Board meets first Wednesday in each month at 3 p. m.
Charles Samson, Secretary.

LAW DEPARTMENT.
Office of Corporation Counsel.
Main office, Municipal Building, 16th floor. Telephone, 4600 Worth.

Lamar Hardy, Corporation Counsel.
Brooklyn office, 153 Pierrepont st. Telephone, 2948 Main.
Bureau of Street Openings.
Main office, Municipal Building, 15th floor. Telephone, 1380 Worth.

Brooklyn office, 166 Montague st. Telephone, 5916 Main.
Queens office, Municipal Building, L. I. City. Telephone, 3886 Hunters Point.
Bureau for the Recovery of Penalties.
Municipal Building, 15th floor. Telephone, 4600 Worth.

Bureau for the Collection of Arrears of Personal Taxes.
Municipal Building, 17th floor. Telephone, 4585 Worth.

DEPARTMENT OF LICENSES.
Main Office, 49 Lafayette st. Telephone, 4490 Franklin.

George H. Bell, Commissioner.
Brooklyn—381 Fulton st. Telephone, 1497 Main.
Queens—Borough Hall, L. I. City. Telephone, 5400 Hunters Point.
Richmond—Borough Hall, New Brighton. Telephone, 1000 Tompkinsville.
Division of Licensed Vehicles—511-519 W. 57th st. Telephone, 6387 Columbus.
Public Employment Bureau—Men's departments, 128 Leonard st. Women's departments, 53 Lafayette st. Telephone, 6100 Franklin.

MUNICIPAL CIVIL SERVICE COMMISSION.

Municipal Building, 14th floor. Telephone, 1580 Worth.

Henry Moskowitz, President.
Robert W. Belcher, Secretary.

MUNICIPAL REFERENCE LIBRARY.

Municipal Building, 5th floor. Telephone, 1072 Worth. 9 a. m. to 5 p. m.; Saturday, to 1 p. m.

DEPARTMENT OF PARKS.

Municipal Building, 10th floor. Telephone, 4850 Worth.

Cabot Ward, Commissioner, Manhattan and Richmond.

Borough of Brooklyn.

Litchfield Mansion, Prospect Park, Brooklyn. Telephone, 2300 South.

Raymond V. Ingersoll, Commissioner.

Borough of The Bronx.

Zbrowski Mansion, Claremont Park. Telephone, 2640 Tremont.

Thomas W. Whittle, Commissioner.

Borough of Queens.

The Overlook, Forest Park, Richmond Hill, L. I. Telephone, 2300 Richmond Hill.

John E. Weier, Commissioner.

PARK BOARD.

Municipal Building, 10th floor. Telephone, 4850 Worth.

Cabot Ward, President; Louis W. Fehr, Secretary.

PAROLE COMMISSION.

Municipal Building, 24th floor. Telephone, 1610 Worth.

Thomas R. Minnick, Secretary.

DEPARTMENT OF PLANT AND STRUCTURES.

Municipal Building, 18th floor. Telephone, 380 Worth.

F. J. H. Kracke, Commissioner.

EXAMINING BOARD OF PLUMBERS.

Municipal Building, 9th floor. Telephone, 1800 Worth.

Janet A. G. Hahn, Clerk.

POLICE DEPARTMENT.

240 Centre st. Telephone, 3100 Spring.

Arthur Woods, Commissioner.

DEPARTMENT OF PUBLIC CHARITIES.

Principal office, Municipal Building, 10th floor. Telephone, 4440 Worth.

Brooklyn and Queens, 327 Schermerhorn st., Brooklyn. Telephone, 2977 Main.

Bureau of Social Investigation, Pearl and Centre sts. Telephone, 4405 Worth.

Borough of Richmond, Borough Hall, St. George, S. I. Telephone, 1000 Tompkinsville.

John A. Kingsbury, Commissioner.

PUBLIC SERVICE COMMISSION.

120 Broadway, 8 a. m. to 11 p. m. every day, including holidays and Sundays. Telephone 7500 Rector.

Oscar S. Straus, Chairman.

James B. Walker, Secretary.

BOARD OF REVISION OF ASSESSMENTS.

Municipal Building, 7th floor. Telephone, 1200 Worth.

John Korb, Jr., Chief Clerk.

COMMISSIONERS OF SINKING FUND.

Office of Secretary, Municipal Building, 7th floor. Telephone, 1200 Worth.

John Korb, Jr., Secretary.

DEPARTMENT OF TAXES AND ASSESSMENTS.

Municipal Building, 9th floor. Telephone, 1800 Worth.

Lawson Purdy, President.

C. Rockland, Jr., Secretary.

DEPARTMENT OF STREET CLEANING.

Municipal Building, 12th floor. Telephone, 4240 Worth.

John T. Fetherston, Commissioner.

TENEMENT HOUSE DEPARTMENT.

Manhattan and Richmond offices, Municipal Building, 19th floor. Telephone, 1526 Worth.

Brooklyn and Queens offices, 503 Fulton st., Brooklyn. Telephone, 3825 Main.

Bronx office, 391 E. 149th st. Telephone, 7107 Melrose.

John J. Murphy, Commissioner.

BOARD OF WATER SUPPLY.

Municipal Building, 22nd floor. Telephone, 3150 Worth.

Charles Strauss, President.

George Featherstone, Secretary.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

Municipal Building, 23d, 24th and 25th floors. Telephone: Manhattan, 4320 Worth; Brooklyn, 3980 Main; Queens, 3441 Hunters Point; Richmond, 840 Tompkinsville; Bronx, 3400 Tremont.

Brooklyn, 50 Court st. Bronx, Tremont and Arthur aves. Queens, Municipal Building, L. I. City, Richmond, Municipal Building, St. George.

William Williams, Commissioner.

BOROUGH OFFICES.**BOROUGH OF THE BRONX.**

President's office, 3d ave. and 177th st. Telephone, 2680 Tremont.

Douglas Mathewson, President.

BOROUGH OF BROOKLYN.

President's office, 2d floor, Borough Hall.

Commissioner of Public Works, 2d floor, Borough Hall.

Assistant Commissioner of Public Works, 2d floor, Borough Hall.

Bureau of Highways, 5th and 12th floors, 50 Court st.

Bureau of Public Buildings and offices, 10th floor, 50 Court st.

Bureau of Sewers, 10th floor, 215 Montague st.

Bureau of Buildings, 4th floor, Borough Hall.

Topographical Bureau, 209 Montague st.

Bureau of Substructures, 11th floor, 50 Court st.

Telephone, 3960 Main.

Lewis H. Pounds, President.

BOROUGH OF MANHATTAN.

President's office, 20th floor, Municipal Building.

Commissioner of Public Works, 21st floor, Municipal Building.

Assistant Commissioner of Public Works, 21st floor, Municipal Building.

Bureau of Highways, 21st floor, Municipal Building.

Bureau of Public Buildings and offices, 20th floor, Municipal Building.

Bureau of Sewers, 21st floor, Municipal Building.

Bureau of Buildings, 20th floor, Municipal Building.

Telephone, 4227 Worth.

Marcus M. Marks, President.

BOROUGH OF QUEENS.

President's Office, Borough Hall, L. I. City. Telephone, 3400 Hunters Point.

Bureau of Public Buildings and Offices, Town Hall, Flushing, L. I. Telephone, 1740 Flushing.

Maurice E. Connolly, President.

BOROUGH OF RICHMOND.

President's office, New Brighton. Telephone, 1000 Tompkinsville.

Calvin D. Van Name, President.

COBONES.

Manhattan, Municipal Building, 2nd floor. Open at all hours of the day and night. Telephone, 3711 Worth.

Bronx—Arthur and Tremont aves. Telephone, 1250 Tremont, 8 a. m. to midnight, every day.

Brooklyn, 236 Duffield st. Telephone, 4004 Main. Open at all hours of the day and night.

Queens, Town Hall, Jamaica, 9 a. m. to 10 p. m.; Sundays and holidays, 9 a. m. to 12 noon.

Richmond, 175 Second st., New Brighton. Open at all hours of the day and night.

COUNTY OFFICES.

Unless otherwise stated, the County offices are open for business from 9 a. m. to 4 p. m.; Saturday, 9 a. m. to 12 noon.

NEW YORK COUNTY.**COUNTY CLERK.**

County Court House. Telephone, 5388 Cortlandt.

9 a. m. to 2 p. m., during July and August.

Wm. F. Schneider, County Clerk.

DISTRICT ATTORNEY.

Criminal Courts Building, 9 a. m. to 5.15 p. m.; Saturdays, to 12 noon. Telephone, 2304 Franklin.

Edward Swann, District Attorney.

COMMISSIONER OF JUDICIAL.

280 Broadway. Telephone, 241 Worth.

Frederick O'Byrne, Commissioner.

PUBLIC ADMINISTRATOR.

119 Nassau st. Telephone, 6376 Cortlandt.

William M. Hoes, Public Administrator.

COMMISSIONER OF RECORDS.

Hall of Records. Telephone, 3900 Worth.

Charles K. Loxton, Commissioner.

REGISTRAR.

Hall of Records. Telephone, 3900 Worth.

9 a. m. to 2 p. m. during July and August.

John J. Hopper, Registrar.

SHERIFF.

51 Chambers st. Telephone, 4300 Worth.

New York County Jail, 70 Ludlow st.

Alfred E. Smith, Sheriff.

SUBROGATE.

Hall of Records. Telephone, 3900 Worth.

John P. Cobalan; Robert Ludlow Fowler, Surrogate.

William Ray De Lano, Chief Clerk.

John F. Curry, Commissioner of Records.

KINGS COUNTY.**COUNTY CLERK.**

Hall of Records. Telephone, 4930 Main.

William E. Kelly, County Clerk.

COUNTY COURT.

County Court House. Court opens at 10 a. m. daily and sits until business is completed.

Part I, Room 23; Part II, Room 10; Part III, Room 14; Part IV, Room 1, Court House.

Clerk's office, Room 17, 18, 19 and 22; open daily from 9 a. m. to 5 p. m.; Saturday to 12 noon. Telephone, 415 Main.

John L. Gray, Chief Clerk.

DISTRICT ATTORNEY.

66 Court st., 9 a. m. to 5.30 p. m.; Saturday, to 1 p. m. Telephone, 2954 Main.

Harry E. Lewis, District Attorney.

COMMISSIONER OF JUDICIAL.

381 Fulton st. Telephone, 530-531 Main.

Jacob Brenner, Commissioner.

PUBLIC ADMINISTRATOR.

44 Court st. Telephone, 2840 Main.

Frank V. Kelly, Public Administrator.

COMMISSIONER OF RECORDS.

Hall of Records. Telephone, 6988 Main.

Edmund O'Connor, Commissioner.

REGISTRAR.

Hall of Records. Telephone, 2830 Main.

Edward T. O'Loughlin, Registrar.

SHERIFF.

50 Court st. Telephone, 6845 Main.

Edward Riegelmann, Sheriff.

SUBROGATE.

Hall of Records. Court opens at 10 a. m. Telephone, 3954 Main.

Herbert T. Ketcham, Surrogate.

John H. McCoohey, Chief Clerk.

BRONX COUNTY.**COUNTY CLERK.**

Civil Records—161st st. and 3d ave. Telephone, 9266 Melrose.

Criminal Branch, 1918 Arthur ave.

James Vincent Ganly, County Clerk.

COUNTY JUDGE.

Bergen Building Annex, Tremont and Arthur aves. Telephone, 3205 Tremont.

Louis D. Gibbs, County Judge.

DISTRICT ATTORNEY.

Tremont and Arthur aves. Telephone, 1100 Tremont.

Francis Martin, District Attorney.

COMMISSIONER OF JUDICIAL.

1932 Arthur ave. Telephone, 3700 Tremont.

John A. Mason, Commissioner.

PUBLIC ADMINISTRATOR.

2808 Third ave. Telephone, 9816 Melrose, 9 a. m. to 5 p. m.; Saturday to 12 noon.

Ernest E. L. Hammer, Public Administrator.

REGISTRAR.

1932 Arthur ave. Telephone, 6694 Tremont.

Edward Polak, Registrar.

SHERIFF.

1932 Arthur ave. Telephone, 6600 Tremont.

James F. O'Brien, Sheriff.

SUBROGATE.

Bergen Building Annex, 1918 Arthur ave.

George M. S. Schulz, Surrogate.

QUEENS COUNTY.**COUNTY CLERK.**

364 Fulton st., Jamaica. Telephone, 2608 Jamaica.

Alexander Dujat, County Clerk.

COUNTY COURT.

County Court House, L. I. City. Telephone, 596 Hunters Point.

Court opens at 10 a. m. Trial Term begins first Monday of each month, except July, August and September, and on Friday of each week.

Clerk's office opens 9 a. m. to 5 p. m.; Saturdays to 12.30 p. m. Telephone, 551 Jamaica.

County Judge's office always open at 336 Fulton st., Jamaica. Telephone, 551 Jamaica.

Burt Jay Humphrey, County Judge.

DISTRICT ATTORNEY.

County Court House, L. I. City. Telephone, 3871 Hunters Point. 9 a. m. to 5 p. m.; Saturday, to 12 noon.

Denis O'Leary, District Attorney.

COMMISSIONER OF JUDICIAL.

County Court House, L. I. City. Telephone, 963 Hunters Point.

Thorndyke C. McKenney, Commissioner.

PUBLIC ADMINISTRATOR.

302 Fulton st., Jamaica. Telephone, 223 Jamaica.

Randolph White, Public Administrator.

SHERIFF.

County Court House, L. I. City. Telephone, 3766 Hunters Point.

Paul Stier, Sheriff.

SUBROGATE.

364 Fulton st., Jamaica. Telephone, 397 Jamaica.

Daniel Noble, Surrogate.

RICHMOND COUNTY.**COUNTY CLERK.**

County Office Building, Richmond. Telephone, 28 New Dorp.

C. Livingston Bostwick, Clerk.

COUNTY JUDGE AND SUBROGATE.

Trial Terms, with Grand and Trial Jury, second Monday of March, first Monday of October.

Trial Terms, with Trial Jury only, first Monday of May, first Monday of December.

Special Terms, Without Jury—Wednesday of each week, except the last week of July, the month of August and the first week of September.

SURROGATE'S COURT.

Monday and Tuesday of each week at the Borough Hall, St. George, and on Wednesday at the Surrogate's Court at Richmond, except during the session of the County Court. There will be no Surrogate's Court during the month of August.

Surrogate's Court and Office, Richmond. Surrogate's Chambers, Borough Hall, St. George.

Harry Tiernan, County Judge and Surrogate.

DISTRICT ATTORNEY.

Borough Hall, St. George. Telephone, 50 Tompkinsville, 9 a. m. to 5 p. m.; Saturday, to 12 noon.

Albert C. Fach, District Attorney.

COMMISSIONER OF JUDICIAL.

Village Hall, Stapleton. Telephone, 81 Tompkinsville.

Edward I. Miller, Commissioner.

PUBLIC ADMINISTRATOR.

Port Richmond. Telephone, 704 West Brighton.

William T. Holt, Public Administrator.

SHERIFF.

County Court House, Richmond. Telephone, 120 New Dorp.

Spire Plouffe, Jr., Sheriff.

THE COURTS.**CITY COURT OF THE CITY OF NEW YORK.**

City Hall Park. Special Term Chambers held from 10 a. m. to 4 p. m. Clerk's office open from 9 a. m. to 4 p. m. Telephone, 122 Cortlandt.

Bidders are requested to make their bids or estimates upon the blank forms prepared by the Department, a copy of which, with the proper envelope in which to enclose 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, Room 2324, Municipal Building, Manhattan, where plans and specifications may be obtained.

WILLIAM WILLIAMS, Commissioner.
New York, June 19, 1916. j21,jy5
See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF FINANCE.

Corporation Sales of Buildings and Appurtenances Thereon on City Real Estate by Sealed Bids.

AT THE REQUEST OF THE PRESIDENT of the Borough of Queens, public notice is hereby given that the Commissioners of the Sinking Fund, by virtue of the powers vested in them by law, will offer for sale by sealed bids certain encroachments standing upon property owned by The City of New York, acquired by it for street opening purposes in the Borough of Queens.

BEING the buildings, parts of buildings, etc., standing within the lines of the Boulevard from Bodine st. to Harris ave., in the Borough of Queens, which are more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room 368, Municipal Building, Borough of Manhattan.

PURSUANT to a resolution of the Commissioners of the Sinking Fund, adopted at a meeting held June 22, 1916, the sale by sealed bids at the upset or minimum prices named in the description of each parcel of the above described buildings and appurtenances thereto will be held by direction of the Comptroller on

THURSDAY, JULY 13, 1916, at 11 a. m., in lots and parcels, and in manner and form and at upset prices as follows: Parcel No. 114—Part of two-story frame house No. 89 Boulevard, Long Island City. Cut 10.24 feet on north and south sides. Upset price, \$10.00.

Sealed bids (blank forms of which may be obtained upon application) will be received by the Comptroller at the office of the Collector

of City Revenue, Room 368, Municipal Building, Borough of Manhattan, until 11 a. m. on the 13th day of July, 1916, and then publicly opened for the sale for removal of the above-described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

Each parcel must be bid for separately and will be sold in its entirety, as described in above advertisement.

Each and every bid must be accompanied by a deposit of cash or certified check in a sum equal to 25 per cent. of the amount of the bid, except that a minimum deposit of \$50 will be required with all bids, and that a deposit of \$500 will be sufficient to entitle bidders to bid on any or all of the buildings.

Deposits of unsuccessful bidders will be returned within twenty-four hours after successful bidders have paid purchase price in full and given security, and those of successful bidders may be declared forfeited to The City of New York by the Comptroller upon the failure of the successful bidder to further comply with the requirements of the terms and conditions of the sale as set forth hereinafter.

Successful bidders will be required to pay the purchase money and deposit the required security within twenty-four hours of the receipt of notification of the acceptance of their bids.

The Comptroller reserves the right to reject any and all bids and to waive any defects or informalities in any bid should it be deemed in the interest of The City of New York to do so.

All bids must state clearly (1) the number or description of the building or buildings bid for, (2) the amount of the bid, (3) the full name and address of the bidder.

All bids must be inclosed in properly sealed envelope, marked "Proposals to be opened July 13, 1916," and must be delivered, or mailed in time for their delivery, prior to 11 a. m. of that date, to the "Collector of City Revenue, Room 368, Municipal Building, New York City," from whom any further particulars regarding the buildings to be disposed of may be obtained.

THE BUILDINGS WILL BE SOLD FOR IMMEDIATE REMOVAL ONLY, SUBJECT TO THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS ISSUE OF THE "CITY RECORD."

ALEXANDER BROUGH, Deputy and Acting Comptroller.

City of New York, Department of Finance, Comptroller's Office, June 22, 1916. j26,jy13

Sales of Tax Liens.

Notice of Sale of Tax Liens of the City of New York, for Unpaid Taxes, Water Rents and Assessments for Local Improvements Upon Lands and Tenements Within That Part of the City of New York Now Known and Described as the Borough of Queens. Affecting Property in Ward 5 of Said Borough, as Shown on the Tax Map of Said City for Said Borough of Queens.

THE CITY OF NEW YORK, DEPARTMENT OF FINANCE, BUREAU FOR THE COLLECTION OF ASSESSMENTS AND ARREARS OF TAXES AND ASSESSMENTS, MUNICIPAL BUILDING, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

Under the direction of Hon. William A. Prendergast, Comptroller of the City of New York, I, Daniel Moynahan, Collector of Assessments and Arrears, hereby give public notice, pursuant to the provisions of Chapter 17, Title 5 of the Greater New York Charter:

That the respective owners of the lands and tenements in the Borough of Queens, in the City of New York, as said lands and tenements are shown within the Fifth Ward of said Borough, upon the Tax Map of said City for said Borough, on which any taxes or any assessment for local improvements have been imposed and become a lien and have remained unpaid for three years since the same were due and payable, or on which any water rent has been imposed and become a lien and has remained due and unpaid for four years since the same was due and payable, are required to pay the amount of said taxes, assessments and water rents, together with all unpaid taxes, water rents and assessments affecting such lands and tenements which became a lien and were due and payable prior to March eleventh, nineteen hundred and sixteen (the taxes, water rents and assessments for local improvements required to be paid, thus comprising all unpaid taxes and water rents affecting said properties contained in assessment rolls down to and including the assessment roll of the City of New York for the year nineteen hundred and fifteen, and all assessments for local improvements affecting said properties entered up to March first, nineteen hundred and sixteen, inclusive) with all penalties thereon remaining unpaid, together with the interest thereon at the rate provided by law from the time the same became liens so as to be due and payable to the date of payment and the charges of this notice and advertisement to the Collector of Assessments and Arrears, at his office in the Municipal Building, Court House Square, Anable Avenue, Long Island City, Borough of Queens, City of New York.

AND NOTICE IS HEREBY GIVEN that if default be made in such payment the lien of the City of New York upon any of said lands and tenements for any tax, assessment or water rent which became a lien so as to be due and payable before March eleventh, nineteen hundred and sixteen, will be sold at Public Auction in the Arrears Office, Third Floor, Municipal Building, Court House Square, Long Island City, Borough of Queens, in the City of New York, on

TUESDAY, AUGUST 22, 1916, at ten o'clock in the forenoon of that day for the lowest rate of interest, not exceeding twelve per centum per annum, at which any person or persons shall offer to take the same in consideration of advancing the said taxes, water rents and assessments and penalties, as the case may be, and interest thereon as aforesaid to the time of sale, the charges of notice and advertisement and all other costs and charges accrued thereon; and that such sale will be continued from time to time until all said liens for taxes, water rents and assessments for local improvements so advertised for sale affecting such lands and tenements shall be sold.

The transfer of tax lien to be executed and delivered to the purchaser thereof pursuant to the terms of said sale shall be subject to the lien for and the right of the City of New York to collect and receive all taxes, water rents and assessments for local improvements and penalties and interest thereon which accrued and became a lien, or which shall accrue and become a lien upon said premises so as to be due and payable on and after the date stated in the first advertisement of said sale as stated herein, namely, the eleventh day of March, nineteen hundred and sixteen (i. e., the lien for and right of the City of New York to collect and receive all taxes and water rents included in the assessment rolls of the City of New York for the years subsequent to nineteen hundred and fifteen, and assessments for local improvements entered subsequent to March first, nineteen hundred and sixteen).

NOTICE IS HEREBY FURTHER GIVEN that a particular and detailed statement of the property affected showing section, volume or ward, block and lot number thereof as the same may be on the Tax Map of the City of New York for the Borough of Queens and the tax liens thereon which are to be sold, is published in a pamphlet and that copies thereof are deposited in the offices of the Collector of Assessments and Arrears in the Boroughs of Queens and Manhattan and will be delivered to any person applying for the same.

Dated, New York, May 15, 1916.
DANIEL MOYNAHAN, Collector of Assessments and Arrears of the City of New York.
This notice applies to arrears as of March 11, 1916. m15,22,29,j5,12,19,26,jy3,10,17,24,31,a7,14,21

Notice of Continuation of The Bronx Tax Sale.

THE SALE OF THE LIENS FOR UNPAID SPECIAL FRANCHISE TAXES AND REAL ESTATE OF CORPORATION TAXES for the Borough of The Bronx, as to liens remaining unsold at the termination of sale of Aug. 9, Nov. 1, 1915, Feb. 7, March 20 and May 22, 1916, has been continued to

MONDAY, JUNE 26, 1916, at 2 p. m., pursuant to Section 1028 of the Greater New York Charter, and will be continued at that time on the 4th floor of the Bergen Building, corner of Arthur and Tremont ayes., Borough of the Bronx, City of New York.

DANIEL MOYNAHAN, Collector of Assessments and Arrears. j5,12,19,26

Confirmation of Assessments.

NOTICES TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of the City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF THE BRONX:

SECTION 11.
SEWERS IN KINDERMAN PL. from Webster Ave. to Brook Ave., and in BROOK AVE. from Kinderman pl. to a point about 200 feet southerly therefrom. Area of assessment affects blocks 2893 and 2894.

SECTION 15.
FRISBY AVENUE—REGULATING, GRADING, SETTING CURBSTONES, FLAGGING SIDEWALKS, LAYING CROSSWALKS, BUILDING APPROACHES AND ERECTING FENCES from Walker ave. to Zerega ave. Area of assessment affects blocks 3975 to 3978, 3982 to 3985, 3987 and 3988.

RECEIVING BASIN on the west side of

GLEBE AVE., south of Glover st. Area of assessment affects block 3967.

ST. PETERS AVE.—REGULATING, GRADING, SETTING CURBSTONES, FLAGGING SIDEWALKS, LAYING CROSSWALKS, BUILDING APPROACHES AND ERECTING FENCES from Westchester ave. to Walker ave. Area of assessment affects blocks 3974, 3976, 3978 to 3980, 3982, 3985, 3986, 3994, 3999 to 4001.

—that the above assessments were confirmed by the Board of Assessors June 20, 1916, and entered June 20, 1916, in the Record of Titles of Assessments kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before August 19, 1916, which is sixty days after the date of said entry of the assessments, interest will be collected thereon at the rate of seven per centum per annum, to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 1019 of the Greater New York Charter.

The above assessments are payable to the Collector of Assessments and Arrears at his office in the Bergen Building, 4th floor, southeast corner of Arthur and Tremont ayes., Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 noon.

WILLIAM A. PRENDERGAST, Comptroller.
Dated, New York June 20, 1916. j23,jy5

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of the City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF MANHATTAN:

SECTION 1.
RECEIVING BASIN—ADJACENT TO THE NORTHEAST CORNER OF FRONT

AND FLETCHER STS. Area of assessment affects block 72.

SECTION 5.
E. 70TH ST.—ALTERATION AND IMPROVEMENT TO SEWER from the Bulkhead Line to a point about 75 feet westerly therefrom. Area of assessment affects blocks 1481 and 1482.

SECTION 7.
RECEIVING BASIN—ADJACENT TO THE NORTHEAST CORNER OF W. 145TH ST. AND LENOX AVE. Area of assessment affects block 2014.

—that the above assessment was confirmed by the Board of Assessors on June 20, 1916, and entered June 20, 1916, in the Record of Titles of Assessments kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before August 19, 1916, which is sixty days after the date of said entry of the assessments, interest will be collected thereon at the rate of seven per centum per annum, to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 1019 of the Greater New York Charter.

The above assessment is payable to the Collector of Assessments and Arrears at his office in the Municipal Building, north side, third floor, Borough of Manhattan, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 noon.

WILLIAM A. PRENDERGAST, Comptroller.
Dated, New York June 20, 1916. j23,jy5

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of the City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF RICHMOND:

SECTION 2.

CONSTRUCTING TEMPORARY COMBINED SEWER IN FULTON ST. from a point about 100 feet east of Warren st. to its easterly end and through an easement in the extension of Fulton st. easterly to its intersection with the prolongation of Patten st. and in the prolongation of Patten st. to the intersection of Patten st. and Meadow st., and CONSTRUCTING A TEMPORARY SANITARY SEWER IN HILL ST. between its easterly end and about 100 feet east of Warren st. and through an easement from the easterly end of Hill Street in a northerly direction to Fulton st. Area of assessment affects blocks 4, 5 and 6.

FOURTH WARD.
GRADING MAPLE AVE. AND SEA VIEW AVE. between Fifth st. and Richmond rd. Area of assessment affects New Dorp in the Fourth Ward.

—that the above assessments were confirmed by the Board of Assessors on June 20, 1916, and entered June 20, 1916, in the Record of Titles of Assessments kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before August 19, 1916, which is sixty days after the date of said entry of the assessments, interest will be collected thereon at the rate of seven per centum per annum, to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 1019 of the Greater New York Charter.

The above assessment is payable to the Collector of Assessments and Arrears at his office in the Borough Hall, Rooms Nos. 15 and 19, St. George, New Brighton, Borough of Richmond, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 noon.

WILLIAM A. PRENDERGAST, Comptroller.
Dated, New York June 20, 1916. j23,jy5

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of the City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF QUEENS:

SECTION 2.

CONSTRUCTING SEWER BASINS on the southeast corner of MYRTLE AVE. and DECATUR ST. Area of assessment affects block 2898.

FOURTH WARD.
CONSTRUCTING RECEIVING BASINS on the NORTHEAST AND NORTHWEST CORNERS OF EMERSON ST. AND OXFORD AVE. Area of assessment affects blocks 165 and 166.

CHESTER AVE.—REGULATING, GRADING, CURBING AND LAYING SIDEWALKS from Van Wyck Ave. to Baker Ave. Area of assessment affects blocks 521 and 522.

—that the above assessment was confirmed by the Board of Assessors on June 20, 1916, and entered June 20, 1916, in the Record of Titles of Assessments kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before August 19, 1916, which is sixty days after the date of said entry of the assessments, interest will be collected thereon at the rate of seven per centum per annum, to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 1019 of the Greater New York Charter.

The above assessment is payable to the Collector of Assessments and Arrears at his office in the Municipal Building, Court House Square, L. I. City, Borough of Queens, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 noon.

WILLIAM A. PRENDERGAST, Comptroller.
Dated, New York June 20, 1916. j23,jy5

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of the City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF BROOKLYN:

SECTION 16.

CANARIE LANE—REGULATING, GRADING, CURBING AND LAYING SIDEWALKS from FLATBUSH AVE. to NOSTRAND AVE. Area of assessment affects blocks 5165 to 5173.

—that the above assessment was confirmed by the Board of Revision of Assessment on June 15, 1916, and entered June 15, 1916, in the Record of Titles of Assessments kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before August 14th, 1916, which is sixty days after date of said entry, interest will be collected at the rate of seven per centum per annum, to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 1019 of the Greater New York Charter.

The above assessment is payable to the Collector of Assessments and Arrears at his office in the Hoffman Building, 503 Fulton st., Brooklyn, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 noon.

WILLIAM A. PRENDERGAST, Comptroller.
Dated, New York June 15, 1916. j20,30

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of the City of New York hereby gives public notice

to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF QUEENS:

SECTION 2.

CENTRAL AVE.—SEWER from Proctor st. to Myrtle ave. Area of assessment affects blocks 1841, 1851, 1852, 1853, 1867 to 1872, 1875, 2599, 2618, 2621 to 2624, 2626 to 2669, 2671 to 2693, 2695, 2696, 2707 to 2741 and 2942.

—that the above assessment was confirmed by the Board of Revision of Assessments on June 15, 1916, and entered June 15, 1916, in the Record of Titles of Assessments kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before August 14, 1916, which is sixty days after the date of said entry of the assessments, interest will be collected thereon at the rate of seven per centum per annum, to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 1019 of the Greater New York Charter.

The above assessment is payable to the Collector of Assessments and Arrears at his office in the Municipal Building, Court House Square, L. I. City, Borough of Queens, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 noon.

WILLIAM A. PRENDERGAST, Comptroller.
Dated, New York, June 15, 1916. j20,30

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of the City of New York hereby gives public notice to all persons, owners of property affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF MANHATTAN:

SECTION 8.

HAVEN AVE.—PAVING AND CURBING from W. 170th to W. 172d sts. Area of assessment affects block 2139.

—that the above assessment was confirmed by the Board of Assessors on June 13, 1916, and entered June 13, 1916, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before August 12, 1916, which is sixty days after the date of said entry of the assessments, interest will be collected thereon at the rate of seven per centum per annum to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 1019 of the Greater New York Charter.

The above assessment is payable to the Collector of Assessments and Arrears at his office in the Municipal Building, north side, third floor, Borough of Manhattan, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 noon.

WILLIAM A. PRENDERGAST, Comptroller.
Dated, New York, June 13, 1916. j16,27

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of the City of New York hereby gives public notice to all persons, owners of property affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF QUEENS:

SECTION 2.

CLINTON AVE.—REGULATING, GRADING, CURBING, LAYING SIDEWALKS AND CROSSWALKS from Claremont ave. to Broad st. Area of assessment affects blocks 2179 and 2180.

THIRD WARD.

CUSTER ST.—REGULATING AND GRADING from Bayreuth st. to Sanford ave. Area of assessment affects block 123-A.

—that the above assessment was confirmed by the Board of Assessors on June 13, 1916, and entered June 13, 1916, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before August 12, 1916, which is sixty days after the date of said entry of the assessments, interest will be collected thereon at the rate of seven per centum per annum to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 1019 of the Greater New York Charter.

The above assessment is payable to the Collector of Assessments and Arrears at his office in the Municipal Building, Court House Square, L. I. City, Borough of Queens, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 noon.

WILLIAM A. PRENDERGAST, Comptroller.
Dated, New York, June 13, 1916. j16,27

Sureties on Contracts.

UNTIL FURTHER NOTICE SURETY COMPANIES will be accepted as sufficient upon the following contracts to the amounts named:

Supplies of Any Description, Including Gas and Electricity.

One company on a bond up to \$50,000.
When such company is authorized to write that amount as per letter of Comptroller to the surety companies, dated Jan. 1, 1914.

Construction.

One company on a bond up to \$25,000.
Including regulating, grading, paving, sewers, maintenance, dredging, construction of parks, parkways, docks, buildings, bridges, tunnels, aqueducts, repairs, heating, ventilating, plumbing, etc.

When such company is authorized to write that amount as per letter of Comptroller to the surety companies, dated Jan. 1, 1914.

Asphalt, Asphalt Block and Wood Block Pavement.

Two companies will be required on any and every bond up to amount authorized by letter of Comptroller to the surety companies, dated Jan. 1, 1914.

Jan. 1, 1914.
WILLIAM A. PRENDERGAST, Comptroller.

Interest on City Bonds and Stock.

THE INTEREST DUE JULY 1, 1916, ON Registered and Coupon Bonds and Stock of The City of New York, and of the former corporations now included therein, will be paid on that day by the Comptroller at his office (Room 851), Municipal Building, Chambers and Centre sts., Manhattan.

The books for the transfer of bonds and stock on which interest is payable July 1, 1916, will be closed from June 15, 1916, to July 1, 1916.

WILLIAM A. PRENDERGAST, Comptroller.
City of New York, Department of Finance, Comptroller's Office, June 1, 1916. j7,jy1

BELLEVUE AND ALLIED HOSPITALS, DEPARTMENT OF PUBLIC CHARITIES, DEPARTMENT OF CORRECTION AND DEPARTMENT OF HEALTH.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by Bellevue and Allied Hospitals, Department of Public Charities, Department of Cor-

rection, Department of Health, at Room 1230, Municipal Building, until 12 noon on

WEDNESDAY, JULY 5, 1916.
FOR FURNISHING AND DELIVERING CANNED GOODS AND GROCERIES.

The time for the performance of the contract is on or before Sept. 30, 1916.

The amount of security required is thirty (30) per cent. of the amount of the bid or estimate.

No bid will be considered unless it is accompanied by a deposit. Such deposit shall be in an amount not less than one and one-half (1½) per cent. of the total amount of the bid.

The bidder will state the price per pound, gallon, dozen or other designated unit, by which the bids will be tested. The extension must be made and footed up, as the bids will be read from the total and awards, if made, made to the lowest bidder on each class or line, as stated in the specifications.

Bids must be submitted in duplicate, each in a separate envelope. No bid will be accepted unless this provision is complied with.

Blank forms and further information may be obtained at Room 1230, Municipal Building, Manhattan.

BOARD OF TRUSTEES, BELLEVUE AND ALLIED HOSPITALS, JOHN W. BRANNAN, M. D., President.

DEPARTMENT OF PUBLIC CHARITIES, JOHN A. KINGSBURY, Commissioner.

DEPARTMENT OF CORRECTION, BUREAU OF L. LEWIS, Commissioner.

DEPARTMENT OF HEALTH, H. EMERSON, Commissioner.

See General Instructions to Bidders on last page, last column, of the "City Record," except for the address of the office for receiving and opening bids.

BOROUGH OF MANHATTAN.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Manhattan, at Room 2032, Municipal Building, Manhattan, until 2 p. m., on

FRIDAY, JUNE 30, 1916.

NO. 1. FOR REGULATING AND REPAVING WITH SHEET ASPHALT ON A CONCRETE FOUNDATION THE ROADWAY OF LEXINGTON AVE. (FROM CURB TO RAIL) FROM 23RD ST. TO 32ND ST., TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the amount of work to be done is as follows:

Item 3—500 linear feet new 3-inch bluestone curbstone.

Item 4—500 linear feet old curb redressed.

Item 5—20 square feet concrete sidewalk, Class A.

Item 6—20 linear feet granite headers.

Item 7—1,020 cubic yards concrete outside of railroad area.

Item 8—5,800 square yards sheet asphalt pavement outside of railroad area.

Item 9—50 square yards sheet asphalt pavement in approaches.

Item 10—12 sewer manhole heads and covers, complete.

Item 11—4 covers for sewer manholes.

Item 12—4 rings for sewer manholes.

Item 13—3 cubic yards brick masonry.

Item 13—12 water manhole heads and covers, complete.

Item 14—10 linear feet platform flag, cut to line.

Work in Railroad Area.

Item 7a—180 cubic yards concrete.

Item 8a—1,080 square yards sheet asphalt pavement.

The time allowed for the full completion of the work will be thirty-six (36) consecutive working days.

The amount of security required will be \$4,000, and the amount of deposit accompanying the bid shall be five (5) per cent. of the amount of security.

The bidder must deposit with the Borough President, on or before the time of making his bid, samples and affidavit, as required by the specifications.

NO. 2. FOR REGULATING AND REPAVING WITH WOOD BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF CENTRE ST. (FROM CURB TO RAIL) FROM LEONARD ST. TO CANAL ST., TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the amount of work to be done is as follows:

Item 3—1,390 linear feet new 6-inch granite curbstone.

Item 4—10 linear feet old curb, redressed.

Item 5—20 square feet concrete sidewalk, Class A.

Item 6—110 linear feet granite headers.

Item 7a—440 cubic yards concrete outside of railroad area.

Item 8—2,170 square yards wood block pavement outside of railroad area.

Item 9—20 square yards sheet asphalt pavement in approaches.

Item 10—7 sewer manhole heads and covers, complete.

Item 11—3 covers for sewer manholes.

Item 12—3 cubic yards brick masonry.

Item 13—2 water manhole heads and covers, complete.

Item 14—40 linear feet platform flag, cut to line.

Work in Railroad Area.

Item 7a—70 cubic yards concrete.

Item 8a—430 square yards wood block pavement.

The time allowed for the full completion of the work will be twenty-one (21) consecutive working days.

The amount of security required will be \$3,500, and the amount of deposit accompanying the bid shall be five (5) per cent. of the amount of security.

The bidder must deposit with the Borough President, on or before the time of making his bid, samples and affidavit, as required by the specifications.

NO. 3. FOR REGULATING AND REPAVING WITH WOOD BLOCK PAVEMENT FROM CURB TO RAIL AND WITH GRANITE BLOCK PAVEMENT IN AND BETWEEN TRACKS, ON A CONCRETE FOUNDATION, THE ROADWAY OF GRAND ST. FROM ESSEX ST. TO LUDLOW ST. AND FROM LAFAYETTE ST. TO A POINT 75 FEET WEST OF WEST HOUSE LINE OF LAFAYETTE ST., TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the amount of work to be done is as follows:

Item 3—490 linear feet new 6-inch granite curbstone.

Item 3b—80 linear feet new 6-inch granite corner curbstone.

Item 4—10 linear feet old curb, redressed.

Item 5—10 square feet concrete sidewalk, Class A.

Item 6—10 linear feet granite headers.

Item 6a—10 linear feet temporary headerstone.

Item 7—140 cubic yards concrete outside of railroad area.

Item 8—650 square yards wood block pavement outside of railroad area.

Item 9—50 square yards sheet asphalt pavement in approaches.

Item 10—11 cover for sewer manhole.

Item 11a—1 ring for sewer manhole.

Item 12—3 cubic yards brick masonry.

Item 13—1 water manhole head and cover, complete.

Item 14—70 linear feet platform flag, cut to line.

Work in Railroad Area.

Item 7a—70 cubic yards concrete.

Item 8a—120 square yards wood block pavement.

Item 8b—410 square yards granite block pavement.

Item 8—650 square yards wood block pavement outside of railroad area.

Item 9—50 square yards sheet asphalt pavement in approaches.

Item 9a—30 square yards granite block pavement in approaches.

Item 10—1 sewer manhole head and cover, complete.

Item 11—1 cover for sewer manhole.

Item 11a—1 ring for sewer manhole.

Item 12—3 cubic yards brick masonry.

Item 13—1 water manhole head and cover, complete.

Item 14—70 linear feet platform flag, cut to line.

Work in Railroad Area.

Item 7a—70 cubic yards concrete.

Item 8a—120 square yards wood block pavement.

Item 8b—410 square yards granite block pavement.

The time allowed for the full completion of the work will be seventeen (17) consecutive working days.

The amount of security required will be \$1,500, and the amount of deposit accompanying the bid shall be five (5) per cent. of the amount of security.

The bidder must deposit with the Borough President, on or before the time of making his bid, samples and affidavit, as required by the specifications.

NO. 4. FOR REGULATING AND REPAVING WITH GRANITE BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY FROM CURB TO RAIL OF THIRD AVE. FROM 34TH ST. TO 60TH ST., TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the amount of work to be done is as follows:

Item 3—10,650 linear feet new 6-inch granite curbstone.

Item 3b—1,080 linear feet new 6-inch granite corner curbstone.

Item 4—210 linear feet old curb redressed.

Item 5—100 square feet concrete sidewalk, Class A.

Item 6—10 linear feet granite headers.

Item 6a—10 linear feet temporary headerstone.

Item 7—6,260 cubic yards concrete outside of railroad area.

Item 8—34,000 square yards granite block pavement outside of railroad area.

Item 9—210 square yards sheet asphalt pavement in approaches.

Item 10—50 sewer manhole heads and covers, complete.

Item 11—17 covers for sewer manholes.

Item 11a—17 rings for sewer manholes.

Item 12—5 cubic yards brick masonry.

Item 13—44 water manhole heads and covers, complete.

Item 14—40 linear feet platform flag, cut to line.

Work in Railroad Area.

Item 7a—580 cubic yards concrete.

Item 8a—3,500 square yards granite block pavement.

The time allowed for the full completion of the work will be one hundred and twenty (120) consecutive working days.

The amount of security required will be \$45,000, and the amount of deposit accompanying the bid shall be five (5) per cent. of the amount of security.

The bidder must deposit with the Borough President, on or before the time of making his bid, samples and affidavit, as required by the specifications.

The Engineer's estimate of the amount of work to be done is as follows:

Item 1—26 receiving basins, altered and improved, method "A," complete.

Item 2—265 linear feet of 12-inch basin connection, complete.

Item 3—56 linear feet of 12-inch vitrified pipe sewer, complete.

Item 4—60 cubic yards of rock, Class A, excavated and removed.

Item 5—10 cubic yards of rock, Class B, excavated and removed.

Item 6—1 cubic yard of concrete, Class A.

Item 7—1 cubic yard of brick masonry.

Item 8—1 cubic yard of extra earth excavation.

Item 9—15 linear feet of curb reset in concrete.

Item 10—70 square feet of flagstone sidewalk pavement furnished and laid.

Item 11—230 square feet of flagstone sidewalk pavement redressed and relaid.

Item 12—1,250 square feet of concrete sidewalk pavement laid.

Item 13—57 square yards of roadway pavement, all kinds, for which double deposit is required.

Item 14—4 manholes, complete.

Item 15—500 feet, B. M., of timber and plank for bracing and sheeting.

Item 1—12 receiving basins altered and improved, Method A, complete.

Item 2—6 receiving basins altered and improved, Method B, complete.

Item 3—2 inlets, Type A, complete.

Item 4—19 inlets, Type B, complete.

Item 5—18 inlets, Type C, complete.

Item 6—1 inlet, Type D, complete.

Item 7—550 linear feet of 12-inch basin connection, complete.

Item 8—5 cubic yards of rock, Class A, excavated and removed.

Item 9—10 cubic yards of rock, Class B, excavated and removed.

Item 10—1 cubic yard of concrete, Class A.

Item 11—1 cubic yard of brick masonry.

Item 12—1 cubic yard of extra earth excavation.

Item 13—500 linear feet of 6-inch granite curb, Class A, set in concrete.

Item 14—275 linear feet of 6-inch granite curb, Class B, set in concrete.

Item 15—60 linear feet of curb reset in concrete.

Item 16—500 square feet of flagstone sidewalk pavement furnished and laid.

Item 17—2,250 square feet of flagstone sidewalk pavement redressed and relaid.

Item 18—3,600 square feet of concrete sidewalk pavement laid.

Item 19—42 square yards of roadway pavement, all kinds, for which double deposit is required.

Item 20—500 feet B. M. of timber and plank for bracing and sheeting.

The time allowed for constructing and completing the alteration to receiving basins and appurtenances and constructing the receiving basins will be sixty (60) consecutive working days.

The amount of security required will be Sixty-five Hundred Dollars (\$6,500), and the amount of deposit accompanying the bid shall be five per cent. (5%) of the amount of security.

The bidder will state the price for each item or article contained in the specifications or schedules herein contained or hereto annexed, per foot, yard, or other unit of measure or article, by which the bid will be tested. Each contract, if awarded, will be awarded for the whole work at a lump sum.

Blank forms may be had and the drawings, form of specification and contract may be seen

at the offices of the Commissioner of Public Works, Room 2141, Municipal Building, Manhattan.

MARCUS M. MARKS, President.

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

SEALED BIDS OR ESTIMATES WILL BE

received by the President of the Borough of Manhattan, at Room 2032, Municipal Building, Manhattan, until 2 p. m., on

WEDNESDAY, JUNE 28, 1916.

FOR ALL OF THE LABOR AND MATERIALS REQUIRED TO REPLACE SKYLIGHTS IN THE LANTERN PORTIONS OF THE ROOFS OF WEST WASHINGTON MARKET BUILDING, BOROUGH OF MANHATTAN.

The time allowed for the completion of the work will be seventy (70) consecutive working days.

The amount of security required will be One Thousand (\$1,000) Dollars, and the amount of deposit accompanying the bid shall be five (5) per cent. of the amount of security.

The bidder will state one aggregate price for the whole work described and specified, as the contract is entire and for a complete job.

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

Blank forms, specifications and plans may be obtained at the office of the Auditor, offices of

the Commissioner of Public Works, Room 2141, Municipal Building, Manhattan.

MARCUS M. MARKS, President.

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

SEALED BIDS OR ESTIMATES WILL BE

received by the President of the Borough of Manhattan, at Room 2032, Municipal Building, Manhattan, until 2 p. m., on

WEDNESDAY, JUNE 28, 1916.

NO. 1. FOR THE RECEIVING BASINS ALTERED AND IMPROVED ON PARK ROW FROM ANN ST. TO FRANKFORT ST., WITH ALL WORK INCIDENTAL THERETO (CPM 37 A), AND RECEIVING BASIN AND APPURTENANCES ADJACENT TO THE SOUTHEAST CORNER OF PARK ROW AND FRANKFORT ST. (CPM 25).

The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

Item 1—Receiving basin, Type B, complete.

Item 2—20 linear feet of 12-inch basin connection, complete.

Item 3—1 cubic yard of rock, Class B, excavated and removed.

Item 4—1 cubic yard of concrete, Class A.

Item 5—1 cubic yard of brick masonry.

Item 6—1 cubic yard of extra earth excavation.

Item 7—25 square feet of concrete sidewalk pavement laid.

Item 8—2 square yards of roadway pavement, all kinds, for which double deposit is required.

Item 9—500 feet B. M. of timber and plank for bracing and sheeting.

Item 1—2 receiving basins, altered and improved, Method A, complete.

Item 2—1 receiving basin, altered and improved, Method B, complete.

Item 3—2 inlets, Type B, complete.

Item 4—3 inlets, Type C, complete.

Item 5—75 linear feet of 12-inch basin connection, complete.

Item 6—1 cubic yard of rock, Class B, excavated and removed.

Item 7—1 cubic yard of concrete, Class A.

Item 8—1 cubic yard of brick masonry.

Item 9—3 cubic yards of extra earth excavation.

Item 10—40 linear feet of 6-inch granite curb (Class A) set in concrete, complete.

Item 11—15 linear feet of 6-inch granite curb (Class B) set in concrete, complete.

Item 12—6 linear feet of curb reset in concrete.

Item 13—200 square feet of concrete sidewalk pavement laid.

Item 14—20 linear feet of bridge-stone flagging recut and refaced to form curb.

Item 15—4 square yards of roadway pavement, all kinds, for which double deposit is required.

Item 16—500 feet B. M. of timber and plank for bracing and sheeting.

The time allowed for constructing and completing the alteration to receiving basins and appurtenances and constructing receiving basin will be twenty (20) consecutive working days.

The amount of security required will be Five Hundred and Fifty (\$550) Dollars, and the amount of deposit accompanying the bid shall be five per cent. (5%) of the amount of security.

NO. 2. FOR THE RECEIVING BASINS ALTERED AND IMPROVED ON PARK AVE. 72ND TO 96TH ST., WITH INLETS AND ALL WORK INCIDENTAL THERETO (CPM 37 A), AND RECEIVING BASINS AT SOUTHEAST CORNER OF PARK AVE. AND 74TH ST. AND 25 OTHER POINTS (CPM 25).

The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

Item 1—26 receiving basins, Type A, complete.

Item 2—265 linear feet of 12-inch basin connection, complete.

Item 3—56 linear feet of 12-inch vitrified pipe sewer, complete.

Item 4—60 cubic yards of rock, Class A, excavated and removed.

Item 5—10 cubic yards of rock, Class B, excavated and removed.

Item 6—1 cubic yard of concrete, Class A.

Item 7—1 cubic yard of brick masonry.

Item 8—1 cubic yard of extra earth excavation.

Item 9—15 linear feet of curb reset in concrete.

Item 10—70 square feet of flagstone sidewalk pavement furnished and laid.

Item 11—230

NO. 4. FOR THE RECEIVING BASINS ALTERED AND IMPROVED ON DELANCEY ST. FROM ESSEX ST. TO RIDGE ST., WITH INLETS AND ALL WORK INCIDENTAL THERE TO.

The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

- Item 1. 2 receiving basins, altered and improved, method "A," complete.
- Item 2. 1 receiving basin, altered and improved, method "B," complete.
- Item 3. 1 receiving basin, altered and improved, method "C," complete.
- Item 4. 1 inlet, type "A," complete.
- Item 5. 5 inlets, type "B," complete.
- Item 6. 1 shallow manhole (as shown on plan), complete.
- Item 7. 50 linear feet of 12" basin connection, complete.
- Item 8. 1 cubic yard of rock, class "B," excavated and removed.
- Item 9. 1 cubic yard of concrete, class "A."
- Item 10. 1 cubic yard of brick masonry.
- Item 11. 1 cubic yard of extra earth excavation.

- Item 12. 100 linear feet of 6-inch granite curb, class "A," set in concrete.
- Item 13. 15 linear feet of 6-inch granite curb, class "B," set in concrete.
- Item 14. 12 linear feet of curb reset in concrete.
- Item 15. 750 square feet of concrete sidewalk pavement laid.
- Item 16. 14 square yards of roadway pavement, all kinds, for which double deposit is required.
- Item 17. 500 feet B. M. of timber and planking for bracing and sheeting.

The time allowed for constructing and completing the alteration and improvement of the basins will be twenty (20) consecutive working days.

The amount of security required will be Five Hundred Dollars (\$500) and the amount of deposit accompanying the bid shall be five per cent. (5%) of the amount of security.

NO. 5. FOR THE RECEIVING BASINS ALTERED AND IMPROVED ON 125TH ST. FROM 11TH AVE. TO MANHATTAN ST., WITH INLETS AND ALL WORK INCIDENTAL THERE TO (CPM-37A) AND RECEIVING BASINS AT THE SOUTHEAST CORNER OF 125TH ST. AND PARK AVE., AND FIVE OTHER STREETS (CFM-25).

The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

- Item No. 1. 5 receiving basins, type "A," complete.
- Item No. 2. 1 receiving basin, type "B," complete.
- Item No. 3. 1 manhole, complete.
- Item No. 4. 120 linear feet of 12-inch basin connections, complete.
- Item No. 5. 1 cubic yard of rock, class "B," excavated and removed.
- Item No. 6. 1 cubic yard of concrete, class "A."
- Item No. 7. 1 cubic yard of brick masonry.
- Item No. 8. 1 cubic yard of extra earth excavation.
- Item No. 9. 15 linear feet of curb reset in concrete.
- Item No. 10. 50 square feet of flagstone sidewalk pavement, redressed and relaid.
- Item No. 11. 10 square feet of flagstone sidewalk pavement, furnished and laid.
- Item No. 12. 350 square feet of concrete sidewalk pavement laid.
- Item No. 13. 37 square yards of roadway pavement, all kinds, for which double deposit is required.
- Item No. 14. 500 feet B. M. timber and planking for bracing and sheeting.

- Item No. 1. 9 receiving basins, altered and improved, method "A," complete.
- Item No. 2. 2 receiving basins, altered and improved, method "B," complete.
- Item No. 3. 2 inlets, type "A," complete.
- Item No. 4. 16 inlets, type "B," complete.
- Item No. 5. 11 inlets, type "C," complete.
- Item No. 6. 525 linear feet of 12-inch basin connection, complete.
- Item No. 7. 2 shallow manholes, complete.
- Item No. 8. 1 cubic yard of rock, class "B," excavated and removed.
- Item No. 9. 1 cubic yard of concrete, class "A."
- Item No. 10. 1 cubic yard of brick masonry.
- Item No. 11. 5 cubic yards of extra earth excavation.
- Item No. 12. 280 linear feet of 6-inch granite curb, class "A," set in concrete.
- Item No. 13. 375 linear feet of 6-inch granite curb, class "B," set in concrete.
- Item No. 14. 60 linear feet of curb reset in concrete.
- Item No. 15. 450 square feet of flagstone sidewalk pavement, redressed and relaid.
- Item No. 16. 100 square feet of flagstone sidewalk pavement, furnished and laid.
- Item No. 17. 3,500 square feet of concrete sidewalk pavement laid.
- Item No. 18. 36 square yards of roadway pavement, all kinds, for which double deposit is required.
- Item No. 19. 500 feet B. M. of timber and planking for bracing and sheeting.

The time allowed for constructing and completing the alteration and improvement to receiving basins and appurtenances and constructing receiving basins will be forty (40) consecutive working days.

The amount of security required will be Thirty-three Hundred (\$3,300) Dollars and the amount of deposit accompanying the bid shall be five per cent. (5%) of the amount of security.

The bidder will state the price for each item or article contained in the specifications or schedules herein contained or hereto annexed, per foot, yard or other unit of measure or article, by which the bid will be tested. Each contract, if awarded, will be awarded for the whole work at a lump sum.

Blank forms may be had and the drawings, form of specification and contract may be seen at the offices of the Commissioner of Public Works, Municipal Building, Bureau of Sewers, Room 2103, Manhattan.

MARCUS M. MARKS, President
Dated, June 17, 1916. j26,jy8
See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF PUBLIC CHARITIES.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities, 10th floor, Municipal Building, Manhattan, until 10.30 a. m., on

THURSDAY, JULY 6, 1916.
FOR FURNISHING AND DELIVERING 200,000 POUNDS OF BUTTER.

The time for the performance of the contract is up to and including Aug. 12, 1916, as stated in the specifications.
The amount of the security required for the performance of the contract is thirty (30) per cent. of the amount of the contract.

No bid will be considered unless it is accompanied by a deposit, which shall be in an amount not less than one and one-half (1½) per cent. of the total amount of the bid.

The bidder will state the price per pound, or other designated unit, 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.

Bids must be submitted in duplicate, each in a separate envelope. No bid will be accepted unless this provision is complied with.

Blank forms and further information may be obtained at the office of the Purchasing Agent of the Department, 10th floor, Municipal Building, Manhattan.

JOHN A. KINGSBURY, Commissioner.
Dated June 24, 1916. j24,jy6
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities, 10th floor, Municipal Building, Manhattan, until 10.30 a. m., on

WEDNESDAY, JULY 5, 1916.
FOR FURNISHING AND DELIVERING CHINA, CROCKERY, GLASSWARE, AGATEWARE, WOODENWARE, HARDWARE, IRONWARE, TINWARE, CUTLERY, DRY GOODS, MISCELLANEOUS FURNITURE AND HOUSEHOLD GOODS.

The time for the performance of the contract is forty (40) calendar days.

The amount of the security required for the performance of the contract is thirty (30) per cent. of the amount of the bid or estimate.

No bid will be considered unless it is accompanied by a deposit, which shall be in an amount not less than one and one-half (1½) per cent. of the total amount of the bid.

The bidder will state the price per dozen, yard or other designated unit, 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 class, line or item, as stated in the specifications.

Bids must be submitted in duplicate, each in a separate envelope. No bid will be accepted unless this provision is complied with.

Blank forms and further information may be obtained at the office of the Purchasing Agent of the Department, 10th floor, Municipal Building, Manhattan.

JOHN A. KINGSBURY, Commissioner.
Dated June 23, 1916. j23,jy5
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities, 10th floor, Municipal Building, Manhattan, until 10.30 a. m., on

WEDNESDAY, JUNE 28, 1916.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR ADDITIONAL KITCHEN APPARATUS, ITS INSTALLATION AND PIPE CONNECTIONS FOR THE KITCHEN AND DINING HALL BUILDING, METROPOLITAN HOSPITAL DISTRICT, BLACKWELL'S ISLAND, THE CITY OF NEW YORK, DIVIDED AS FOLLOWS: BID "A"—APPARATUS, INSTALLED COMPLETE. BID "B"—WATER AND GAS SUPPLY COMPLETE. BID "C"—STEAM SUPPLY AND RETURNS, COMPLETE.

The time allowed for the completion of the work and full performance of each contract is forty-five (45) consecutive calendar days.

The security required will be nine hundred dollars (\$900) on Bid "A," sixty dollars (\$60) on Bid "B," and ninety dollars on Bid "C."

A deposit of five (5) per cent. of the amount of security required in cash or certified check must accompany each bid.

Bids will be compared and the contract separately awarded to the lowest bidder on propositions "A," "B," and "C," respectively.

Blank forms and further information may be obtained at the office of Charles B. Meyers, Architect, No. 1 Union Square West, Manhattan, where plans and specifications may be seen.

JOHN A. KINGSBURY, Commissioner.
Dated, June 17, 1916. j17,j28
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities, 10th floor, Municipal Building, Manhattan, until 10.30 a. m., on

MONDAY, JUNE 26, 1916.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION OF SYNCHRONOUS CLOCKS FOR THE DEPARTMENT OF PUBLIC CHARITIES.

The time allowed for the completion of the work and full performance of the contract is one hundred (100) consecutive calendar days.

The security required will be Twelve Hundred Dollars (\$1,200).

Certified check or cash in the sum of Sixty Dollars (\$60) must accompany each bid.

The bidder will state one aggregate price for the whole work described as specified, as the contract is entire for a complete job.

Blank forms and further information may be obtained at the office of the Purchasing Agent of the Department, 10th floor, Municipal Building, Manhattan, where plans and specifications may be seen.

JOHN A. KINGSBURY, Commissioner.
Dated June 15, 1916. j15,j26
See General Instructions to Bidders on last page, last column, of the "City Record."

FIRE DEPARTMENT.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m., on

SATURDAY, JULY 8, 1916.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REPAIRS AND ALTERATIONS TO THE QUARTERS OF ENGINE COMPANIES NOS. 203, 204, 240, 244, 245, 246, 249, 251, 255, 264, 270, 272, 273, 274, 275, 285, 287, 291, HOOK AND LADDER COMPANIES NOS. 111, 119, 121, 125, 126, 129, 134, 136, 142, HOSE COMPANY NO. 3 AND 52ND BATTALION.

The time for the completion of the work and the full performance of the contract is forty (40) consecutive working days for each item.

The amount of security required for the performance of the contract is fifty per cent. (50%) of the amount of the bid or estimate.

Bids will be compared and the contract awarded to the lowest bidder on each item.

Contracts will be prepared where the items awarded to any bidder amount to Five Hundred Dollars (\$500) or more. Open market orders will be issued where the items awarded to any bidder amount to less than Five Hundred Dollars (\$500).

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
j26,jy8
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m., on

SATURDAY, JULY 1, 1916.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REPAIRS AND ALTERATIONS TO THE QUARTERS OF HOOK AND LADDER COMPANY NO. 13, LOCATED AT NO. 159 E. 87TH ST., BOROUGHS OF MANHATTAN.

The time for the completion of the work and the full performance of the contract is forty (40) consecutive working days.

The amount of security required for the performance of the contract is fifty per cent. (50%) of the amount of the bid or estimate.

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

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
j20,jy1
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m., on

MONDAY, JUNE 26, 1916.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REPAIRS TO APPARATUS FLOORS OF VARIOUS COMPANY QUARTERS IN ALL BOROUGHS.

The time allowed for the completion of the work and the full performance of the contract is fifty (50) consecutive working days.

The amount of security required for the performance of the contract is fifty per cent. (50%) of the amount of the bid or estimate.

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

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
j14,j26
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m., on

MONDAY, JUNE 26, 1916.
FOR FURNISHING, ASSEMBLING AND DELIVERING ONE HUNDRED AND TEN FEEDER-POST TERMINAL BOXES.

The time allowed for complete manufacture, assembly and delivery of all boxes is ninety (90) consecutive working days.

The amount of security required for the performance of the contract is thirty per cent. (30%) of the amount of the bid or estimate.

The bids will be compared and award, if made, will be to the lowest bidder for the entire contract.

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
j14,j26
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m., on

MONDAY, JUNE 26, 1916.
FOR CONSTRUCTING AND FURNISHING THREE MOTOR-DRIVEN COMBINATION CHEMICAL AND HOSE WAGONS.

The time allowed for the performance of the contract is one hundred and five (105) calendar days.

The amount of security required for the performance of the contract 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 hose wagon, by which the bids will be tested. The extension must be made.

The bids will be compared and the contract awarded to the lowest bidder for the entire contract.

Bids for supplies must be submitted in duplicate.

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
j14,j26
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m., on

MONDAY, JUNE 26, 1916.
FOR CONSTRUCTING AND FURNISHING SEVEN MOTOR-DRIVEN HOSE WAGONS.

The time allowed for the performance of the contract is one hundred and twenty (120) calendar days.

The amount of security required for the performance of the contract 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 hose wagon, by which the bids will be tested. The extension must be made.

The bids will be compared and the contract awarded to the lowest bidder for the entire contract.

Bids for supplies must be submitted in duplicate.

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
j14,j26
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m., on

MONDAY, JUNE 26, 1916.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR FURNISHING, DELIVERING AND INSTALLING A NEW HEATING SYSTEM AT THE QUARTERS OF HOOK AND LADDER COMPANY NO. 13, LOCATED AT NO. 159 E. 87TH ST., BOROUGHS OF MANHATTAN.

The time allowed for the completion of the work and the full performance of the contract is forty (40) consecutive working days.

The amount of security required for the performance of the contract is fifty per cent. (50%) of the amount of the bid or estimate.

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

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
j14,j26
See General Instructions to Bidders on last page, last column, of the "City Record."

MUNICIPAL CIVIL SERVICE COMMISSION.

Notice of Examinations.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received by the Municipal Civil Service Commission, Municipal Building, Manhattan, New York City, from

WEDNESDAY, JUNE 21, 1916, TO THURSDAY, JULY 6, 1916,

for the position of

JUNIOR LAW ASSISTANT (GRADE 1).

No applications delivered at the office of the Commission, by mail or otherwise, after 4 p. m. THURSDAY, JULY 6, 1916, will be accepted.

Application blanks will be mailed upon request, provided a self-addressed stamped envelope or sufficient postage is enclosed to cover the mailing. The Commission will not guarantee the delivery of the same. Postage on applications forwarded by mail must be fully prepaid.

Applicants must be citizens of the United States and residents of the State of New York. The requirement that every application shall bear the certificates of four reputable citizens whose residences or places of business are within the City of New York is waived for applicants for this examination whose previous occupation or employment has been wholly or in part outside the City of New York, and the said certificates will be accepted from persons resident or engaged in business elsewhere.

The subjects and weights of the examination are: Experience, 2; 70% required. Duties, 8; 70% required.

A qualifying physical examination will be given. Candidates failing to pass the physical test will not be summoned for the mental test.

Applications for this examination must be filed on a special blank, Form C.

Duties: The duties of a Junior Law Assistant are to perform, under supervision, such definite details of legal work as the preparation of memoranda of law, the answering of calendars, assisting in the preparation and trial of cases, preparing papers in actions, taxing bills of costs and entering judgments and orders.

Requirements: Candidates must hold a degree granted on the completion of a standard course of instruction in a law school of recognized standing, or a certificate of admission to the bar in the State of New York.

Candidates must be at least 21 years of age and not more than 30 years of age on the closing date for the receipt of applications.

There are four vacancies in the Law Department.

The salary is from \$900 to, but not including, \$1,500 per annum. The compensation rates proposed by the Board of Estimate and Apportionment for this position are from \$900 to \$1,140 per annum. Under the terms and conditions of the budget for the year 1916 appointments will as a rule be made at the lowest compensation rate.

The term of the eligibility of the list resulting from this examination is fixed at not less than one year nor more than four years.

j21,jy6 R. W. BELCHER, Secretary.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received by the Municipal Civil Service Commission, Municipal Building, Manhattan, New York City, from

TUESDAY, JUNE 20, 1916, TO WEDNESDAY, JULY 5, 1916,

for the position of

PATHOLOGIST.

No applications delivered at the office of the Commission, by mail or otherwise, after 4 p. m. WEDNESDAY, JULY 5, 1916, will be accepted.

Application blanks will be mailed upon request, provided a self-addressed stamped envelope or sufficient postage is enclosed to cover the mailing. The Commission will not guarantee the delivery of the same. Postage on applications forwarded by mail must be fully prepaid.

The requirement that applicants must be residents of the State of New York is waived for this examination. Competitive examination to persons who accept appointment must thereafter reside in the State of New York.

The requirement that every application shall bear the certificates of four reputable citizens whose residences or places of business are within the City of New York is waived for applicants for this examination whose previous occupation or employment has been wholly or in part outside the City of New York, and the said certificates will be accepted from persons resident or engaged in business elsewhere.

The subjects and weights of the examination are: Experience, 3; 70% required. Thesis, 3; 75% required. Practical Test, 4; 75% required. Candidates will not be assembled for the written examination. Candidates will be assembled for the Practical Test.

A qualifying physical examination will be given. Candidates failing to qualify in any part of the examination will not be summoned for the ensuing tests.

Applications for this examination are to be filed on a special blank, Form C.

Candidates must have the degree of M. D. from an approved institution.

Duties: The performance of autopsies; microscopic diagnosis of tissues; bacteriological diagnosis and clinical pathology.

The Practical Test will be held in a pathological laboratory. The candidates will be required to demonstrate their ability to perform the work of pathologist as described in the duties given above.

Candidates must be at least 21 years of age on the closing date for the receipt of applications.

The requirement of paragraph 12 of Rule VII, that no person who has entered any examination for appointment to a competitive position and failed, or who has withdrawn from an examination, shall be admitted within nine months from the date of such examination to a new examination for the same position, is waived for this examination.

There is one vacancy in the Department of Public Charities, Kings County Hospital, at \$1,500 per annum without maintenance.

The term of the eligibility of the list resulting from this examination is fixed at not less than one year nor more than four years.

j20,jy5 R. W. BELCHER, Secretary.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received by the Municipal Civil Service Commission, Municipal Building, Manhattan, New York City, from

FRIDAY, JUNE 16, 1916, TO FRIDAY, JUNE 30, 1916,

for the position of

ASSISTANT ENGINEER (POWER PLANT SUPERVISION), GRADE E.

No application delivered at the office of the Commission, by mail or otherwise, after 4 p. m. FRIDAY, JUNE 30, 1916, will be accepted.

Application blanks will be mailed upon request, provided a self-addressed stamped envelope or sufficient postage is enclosed to cover the mailing. The Commission will not guarantee the delivery of the same. Postage on applications forwarded by mail must be fully prepaid.

Applicants must be citizens of the United States and residents of the State of New York. The requirement that every application shall bear the certificates of four reputable citizens whose residences or places of business are within the City of New York is waived for applicants

for this examination whose previous occupation or employment has been wholly or in part outside the City of New York, and the said certificates will be accepted from persons resident or engaged in business elsewhere.

The subjects and weights of the examination are: Experience, 5; 70% required. Technical, 3; 75% required. Oral examination, 2; 70% required.

A qualifying physical examination will be given. Candidates failing to qualify in any part of the examination will not be summoned for the ensuing tests.

Applications for this examination must be filed on a special blank, Form C, with insert.

Duties: The Assistant Engineer (Power Plant Supervision) will have charge of the plant and works for the production, distribution and utilization of heat, light and power and other mechanical equipment of the various institutions of a city department. He will have direct supervision over the organization and equipment and will be expected to institute methods for control and economy in operation and to give critical judgment incident to the purchase of fuel and new installations where necessary.

Requirements: Candidates must have had experience as an engineer in the design, construction and operation of a power plant or in the investigation of power plant efficiency. Part of this period must have been spent in charge of power plant operation of such a character as to require administrative and executive ability. Suitable credit will be given to holders of appropriate technical degrees or to those possessing similar scientific acquisitions.

Candidates must be at least 25 years of age on the closing date for the receipt of applications.

The eligible list resulting from this examination will be available for a number of City departments.

The salary for this grade of work ranges from \$2,280 to \$3,180 per annum.

The vacancy immediately to be filled is in the Department of Public Charities and carries a salary of \$3,000 per annum.

The term of the eligibility of the list resulting from this examination is fixed at not less than one year nor more than four years.

j16.30 R. W. BELCHER, Secretary.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received by the Municipal Civil Service Commission, Municipal Building, Manhattan, New York City, from **THURSDAY, JUNE 15, 1916, TO THURSDAY, JUNE 29, 1916,**

for the position of

JUNIOR DRAUGHTSMAN, GRADE B.

No applications delivered at the office of the Commission, by mail or otherwise, after 4 p. m. THURSDAY, JUNE 29, 1916, will be accepted. Application blanks will be mailed upon request, provided a self-addressed stamped envelope or sufficient postage is enclosed to cover the mailing. The Commission will not guarantee the delivery of the same. Postage on applications forwarded by mail must be fully prepaid.

Applicants must be citizens of the United States and residents of the State of New York. The subjects and weights of the examination are: Technical, 8; 75% required. Experience, 2; 70% required on all.

The technical paper will include mathematics. General neatness will be considered in rating.

A qualifying physical examination will be given. Candidates failing to qualify in any part of the examination will not be summoned for the ensuing tests.

Applications for this examination must be filed on a special blank, Form B.

Duties: Junior Draughtsman will be required to make sketches, tracings or drawings of an elementary character. They will assist in making maps, charts or diagrams and will perform computations incident to the work of draughting.

Requirements: Candidates should have had training or experience as a draughtsman. Candidates must be at least 18 years of age on the closing date for the receipt of applications.

Vacancies occur from time to time in a number of City departments. The salary range recommended by the Bureau of Standards is from \$900 to \$1,200 per annum. Usual initial salary, \$900 per annum.

The term of the eligibility of the list resulting from this examination is fixed at not less than one year nor more than four years.

j15.29 R. W. BELCHER, Secretary.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received beginning at 1 p. m. on

THURSDAY, JUNE 29, 1916,

and the receipt of applications will continue thereafter until further notice for the position of **TAILOR (LABOR CLASS, PART III),**

at the office of the Application Bureau, Room 1400, Municipal Building, Centre and Chambers Sts., Borough of Manhattan.

Applicants must present themselves in person when filing applications on Thursday, June 29, 1916, at 1 p. m., as no applications will be received by mail on that day. After Thursday, June 29, 1916, application blanks will be mailed on request, provided a self-addressed stamped envelope or sufficient postage is enclosed to cover the mailing, but the Commission will not guarantee the delivery of the same. Applications forwarded by mail upon which full postage is not prepaid will not be accepted.

Applicants must be citizens of the United States and residents of the State of New York. Proof of naturalization must accompany application.

Candidates must be not less than 21 years of age at the time of filing applications. In addition, they must furnish evidence of at least two years' experience as a Tailor and must pass a practical examination.

Only men of good moral character will be accepted. A rigid investigation will be made into the character of each applicant.

The dates for the physical examination and for the practical test will be announced later.

Vacancies occur from time to time in the tailoring shops of the Department of Public Charities, the Department of Correction and other public institutions. Usual salary is \$900 per annum.

j15.29 R. W. BELCHER, Secretary.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received by the Municipal Civil Service Commission, Municipal Building, Manhattan, New York City, from **WEDNESDAY, JUNE 14, 1916, TO WEDNESDAY, JUNE 28, 1916,**

for the position of

JANITOR ENGINEER.

No applications delivered at the office of the Commission, by mail or otherwise, after 4 p. m. WEDNESDAY, JUNE 28, 1916, will be accepted. Application blanks will be mailed upon request, provided a self-addressed stamped envelope or sufficient postage is enclosed to cover the mailing. The Commission will not guarantee the delivery of the same. Postage on applications forwarded by mail must be fully prepaid.

Applicants must be citizens of the United States and residents of the State of New York. The subjects and weights of the examination are: Technical, 7; Experience, 3.

The Technical examination will consist of a practical test and a written examination, each counting 50% of the total. 75% is required on the Practical test and 75% on the written examination. 70% is required on Experience.

A qualifying physical examination will be given.

Candidates failing to qualify in any part of the examination will not be summoned for the ensuing tests.

Applications for this examination must be filed on a special blank, Form C.

Duties: Candidates must be familiar with all appliances used in the heating, ventilating, lighting and cleaning of public schools, including steam engines, boilers, pumps, call-bell systems and simple electrical apparatus. They must be able to care for, operate and make repairs and adjustments.

Requirements: Candidates must present evidence of experience as an engineer in charge of a steam engine plant or other employment tending to qualify them for the duties of the position. Candidates must produce with their applications either a stationary engineer's license or the affidavits of three licensed stationary engineers certifying to their qualifications for the duties of the position.

Compensation depends upon the size of the building to which assignment is made and is commensurate with the high grade of experience required. Candidates must be not less than 25 years of age nor more than 50 years of age on the closing date for the receipt of applications.

There are no vacancies at present. Certification will be made from this list to the Board of Education and other city departments, if necessary.

The term of the eligibility of the list resulting from this examination is fixed at not less than one year nor more than four years.

j14.28 R. W. BELCHER, Secretary.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received beginning at 1 p. m. on

TUESDAY, JUNE 27, 1916,

and the receipt of applications will continue thereafter until further notice for the position of **CUTTER (LABOR CLASS, PART III),**

at the office of the Application Bureau, Room 1400, Municipal Building, Centre and Chambers Sts., Manhattan.

Applicants must present themselves in person when filing applications on Tuesday, June 27, 1916, at 1 p. m., as no applications will be received by mail on that day. After Tuesday, June 27, 1916, application blanks will be mailed on request, provided a self-addressed stamped envelope or proper postage is enclosed with the request, but the Commission will not guarantee the delivery of the same.

Applications forwarded by mail upon which full postage is not prepaid will not be accepted. Applicants must be citizens of the United States and residents of the State of New York. Proof of naturalization must accompany application.

Candidates must be not less than 21 years of age at the time of filing applications. In addition, they must furnish evidence of at least two years' experience as a Cutter and must pass a practical examination.

Only men of good moral character will be accepted. A rigid investigation will be made into the character of each applicant.

The dates for the physical examination and for the practical test will be announced later.

Vacancies occur from time to time in the tailoring shops of the Department of Public Charities, the Department of Correction and other public institutions. Usual salary is \$900 per annum.

j13.27 R. W. BELCHER, Secretary.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received by the Municipal Civil Service Commission, Municipal Building, Manhattan, New York City, from **MONDAY, JUNE 12, 1916, TO MONDAY, JUNE 26, 1916,**

for the position of

STENOGRAPHER, GRADE 2 (MALE AND FEMALE).

No applications delivered at the office of the Commission, by mail or otherwise, after 4 p. m. MONDAY, JUNE 26, 1916, will be accepted. Application blanks will be mailed upon request, provided a self-addressed stamped envelope, or sufficient postage, is enclosed to cover the mailing. The Commission will not guarantee the delivery of the same. Postage on applications forwarded by mail must be fully prepaid.

Applicants must be citizens of the United States and residents of the State of New York. The subjects and weights of the examination are: Spelling, 1; Copying from plain copy on typewriter, 1; 70% required. Transcribing stenotype notes, 2; 70% required. Speed in taking dictation on stenotype, 2; 70% required. Accuracy in transcribing dictation on typewriter, 4; 70% required. 70% general average required.

A qualifying physical examination will be given. Candidates failing to pass the physical test will not be summoned for the mental test.

Duties: The duties of a Stenographer are to take notes of dictations, hearings and examinations on the stenotype machine and to transcribe these notes on the typewriter.

The examination will be held on two days. On the first day the candidates will be given a test in spelling, consisting of twenty words; a test in copying three hundred words from plain copy on the typewriter in five minutes; and a test in copying three hundred words on the typewriter from stenotype notes furnished to the candidate by the Commission. Candidates who fail to receive at least 70% in the test of copying from plain copy, and at least 70% in the test of copying from stenotype notes, will not be summoned for the second day of the examination.

On the second day three dictations will be given, to be taken by the candidates on the stenotype machine and transcribed on the typewriter. Each dictation will be two minutes in length. The first dictation will be given at one hundred and thirty words per minute, the second at one hundred and forty-five words per minute, the third at one hundred and sixty words per minute. The speed rating for the first will be 70%; for the second 85%; for the third 100%.

The accuracy mark will depend upon correctness, neatness, freedom from erasures, completeness and general excellence of appearance.

On the first day of the examination candidates must furnish their own typewriting machines, pens and ink. On the second day of the examination candidates must furnish their own typewriting machines, stenotype machines, stenotype paper, pens and ink. The Commission will not at any time or in any way be responsible for typewriting or stenotype machines, nor will any allowance be made where they are missing, late in arriving, defective, or out of order on the day of the examination.

Candidates must be at least 17 years of age on the closing date for the receipt of applications. The salary is from \$600 to, but not including, \$1,200 per annum, and vacancies occur from time to time. The compensation rates proposed by the Board of Estimate and Apportionment for this position are from \$720 to \$900, inclusive. Under the terms and conditions of the budget for the year 1916 appointments will as a rule be made at the lowest compensation rate.

The term of the eligibility of the list resulting from this examination is fixed at not less than one year nor more than four years.

The requirement of paragraph 12 of Rule VII that no person who has entered any examination for appointment to a competitive position and failed, or who has withdrawn from an examination, shall be admitted within nine months from the date of such examination to a new examination for the same position, is waived for this examination.

R. W. BELCHER, Secretary.

j12.26

BOROUGH OF QUEENS.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Queens at 3d floor, Borough Hall, 5th st. and Jackson ave., L. I. City, until 11 a. m. on

WEDNESDAY, JUNE 28, 1916,

NO. 1. FOR REGULATING AND GRADING AT THE LEGAL GRADE AND FULL WIDTH LAMBERTVILLE AVE. (PACIFIC ST.) BETWEEN SUTPHIN RD. AND SPANGLER (VINE) ST.; SPANGLER (VINE) ST. BETWEEN LAMBERTVILLE AVE. (PACIFIC ST.) AND BRINKERHOFF AVE.; BRINKERHOFF AVE. BETWEEN SPANGLER (VINE) ST. AND SMITH ST. (WOODLAND AVE.) BETWEEN BRINKERHOFF AVE. AND ULSTER AVE.; ULSTER AVE. BETWEEN SMITH ST. (WOODLAND AVE.) AND MERRICK RD.; EXCEPTING THE FOLLOWING NUMBERED PARCELS AS SHOWN ON THE DAMAGE MAP OF LAMBERTVILLE AVE.: NOS. 24, 25, 33, 94, 115, 107 AND 119.

EXCEPTING THAT PORTION OF LAMBERTVILLE AVE. BETWEEN FREEHOLD ST. (NORRIS) AVE. AND MEDFORD (PROSPECT) ST. WHICH SHALL BE GRADED TO A TEMPORARY GRADE EXTENDING FROM THE LEGAL GRADE AT FREEHOLD ST. (NORRIS AVE.) TO THE EXISTING ELEVATION OF THE LONG ISLAND RAILROAD TRACKS, AND TURNING INTO THE LEGAL GRADE AT MEDFORD (PROSPECT) ST. FOURTH WARD OF THE BOROUGH OF QUEENS, AND ALL WORK INCIDENTAL THEREON.

The time allowed for doing and completing the above work will be one hundred and fifty (150) calendar days.

The amount of security required will be Ten Thousand (\$10,000) Dollars.

The Engineer's estimate of the quantities is as follows:

8,000 cubic yards of earth excavation.
10 cubic yards of rock excavation.
38,000 cubic yards of embankment (to be furnished).

200 square yards of stone gutters furnished and laid.

120 linear feet of 12-inch vitrified pipe in place.

120 linear feet of 24-inch cast iron pipe in place.

504 linear feet of 12-inch cast iron pipe in place.

3 temporary catch basins to be built as per plans.

126 cubic yards of concrete, 1-2-4 mix, in place.

11,600 pounds of reinforcing steel in place.

91 square yards of rip rap in place.

33 cubic yards of gravel or broken stone in place.

30 square yards of sheet asphalt pavement to be restored (not to be bid for).

4 trees to be removed and replaced by others (not to be bid for).

NO. 2. FOR REGULATING AND PAVING WITH A PERMANENT PAVEMENT OF SHEET ASPHALT UPON A CONCRETE FOUNDATION SIX (6) INCHES IN THICKNESS FOR A WIDTH OF 20 FEET CENTRALLY LOCATED, TOGETHER WITH ALL WORK INCIDENTAL THEREON, IN LEBERTS AVE. FROM LIBERTY AVE. TO ROCKAWAY BOULEVARD, FOURTH WARD OF THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be forty (40) working days.

The amount of security required will be Ten Thousand (\$10,000) Dollars.

The Engineer's estimate of the quantities is as follows:

2,000 cubic yards of earth excavation (not to be bid for).

1,590 cubic yards of concrete in place, including 8-inch shoulders.

8,650 square yards of sheet asphalt pavement (laid outside of the railroad franchise area, including binder course, and five (5) years maintenance).

NO. 3. FOR REGULATING, GRADING, CURBING, LAYING CROSSWALKS AND SIDEWALKS (WHERE NOT ALREADY LAID TO GRADE AND IN GOOD CONDITION) AND PAVING WITH A PERMANENT PAVEMENT OF SHEET ASPHALT UPON A CONCRETE FOUNDATION SIX (6) INCHES IN THICKNESS, TOGETHER WITH ALL WORK INCIDENTAL THEREON, FOR A WIDTH OF TWENTY (20) FEET CENTRALLY LOCATED, AND ALSO BETWEEN SAID CENTRAL SLIP AND CIRCULAR CURVES CONCENTRIC WITH AND EIGHT (8) FEET DISTANT FROM CURB LINES TO TERMINAL CURVES, IN COLUMBIA AVE. FROM QUEENS BOULEVARD TO LAUREL HILL BOULEVARD, SECOND WARD OF THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be thirty (30) working days.

The amount of security required will be Fifteen Hundred (\$1,500) Dollars.

The Engineer's estimate of the quantities is as follows:

50 cubic yards of earth excavation.

1,200 cubic yards of embankment.

510 linear feet of cement concrete curb with steel nosing, furnished and set and one year's maintenance.

2,400 square feet of cement sidewalk, furnished and laid, and one year's maintenance.

120 cubic yards of concrete, in place, including 8-inch shoulders.

800 square yards of asphaltic concrete pavement, with five years maintenance.

400 square yards of stone block gutters, furnished and laid.

60 linear feet of 12-inch cast iron pipe, in place.

NO. 4. FOR REGULATING AND GRADING, AND ALL WORK INCIDENTAL THEREON, IN MOORE ST. FROM NELSON (NOTT) AVE. TO QUEENS BOULEVARD, FIRST WARD OF THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be forty (40) working days.

The amount of security required will be Nine Hundred (\$900) Dollars.

The Engineer's estimate of the quantities is as follows:

100 cubic yards of earth excavation.

7,500 cubic yards of embankment (in excess of excavation).

The bidder must state the price of each item or article contained in the specification or schedule herein contained or hereafter annexed, per square yard, linear foot or other unit of measure, by which the bids will be tested. Bids will be compared and each contract awarded at a lump or aggregate sum. Blank forms may be obtained and the plans or drawings may be seen at the office of the President of the Borough of Queens.

Dated June 17, 1916.

j17.28 MAURICE E. CONNOLLY, President.

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

BOARD OF ELECTIONS.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Board of Elections at Room

1840, Municipal Building, Manhattan, until 12 noon on

FRIDAY, JUNE 30, 1916,

FOR FURNISHING AND DELIVERING SENATE, ASSEMBLY, CONGRESS AND MUNICIPAL COURT DISTRICT MAPS, AS PER SPECIFICATIONS.

The time allowed for the performance of the contract, after the indorsement of the certificate of the Comptroller upon the executed contract, is thirty (30) calendar days after the delivery of copy to the Contractor.

The amount of security required to guarantee the faithful performance of the contract is fifty (50) per cent. of the total amount for which the contract is awarded.

Delivery will be required to be made to the various Borough Offices of the Board of Elections in the manner and in such quantities as the Board of Elections may direct.

Blank forms and other information may be obtained at the General Office of the Board of Elections, Room 1840, Municipal Building, Manhattan.

EDWARD F. BOYLE, MOSES M. McKEE, JAMES KANE, JACOB A. LIVINGSTON, Commissioners of Elections.

THOMAS J. KENNY, Deputy Chief Clerk.

Dated, June 17, 1916. j19.30

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

DEPARTMENT OF PARKS.

Auction Sale.

THE DEPARTMENT OF PARKS, Boroughs of Manhattan and Richmond, will sell at public auction by Daniel Greenwald, Auctioneer, at the Sheepfold, 66th st. and Central Park, on

THURSDAY, JULY 6, 1916,

at 11 a. m.

THE FOLLOWING SURPLUS ANIMALS, ETC.:

2 Angora goats.
29 Ram Lambs.
8 Ewe Lambs.
8 Old Ewes.
1 Old Ram.
735 lbs. of Wool, more or less.

TERMS OF SALE.

The Purchase money to be paid in cash or certified check at time of sale.

Purchases will be required to be removed immediately after sale.

CABOT WARD, Commissioner of Parks, Boroughs of Manhattan and Richmond. j23.jy6

THE DEPARTMENT OF PARKS, LITCHFIELD Mansion, Prospect Park, Borough of Brooklyn, City of New York, will sell at public auction to the highest bidder on

THURSDAY, JUNE 29, 1916,

commencing at 11 a. m., at the entrance, 9th ave. and 7th st., Prospect Park, Borough of Brooklyn, by William Jacobus, auctioneer, the material described below, situated at Prospect Park, Brooklyn.

Lot 1—5 tons of heavy iron and steel scrap.

Lot 2—5 tons of light iron and steel scrap.

Lot 3—One lot of tennis posts.

Lot 4—One lot of oil skin suits.

No. 5—1,500 lbs. of rubber and cotton covered hose.

Lot 6—500 lbs. Rope.

Lot 7—300 lbs. Automobile shoes.

Lot 8—300 lbs. Rubber boots.

Lot 9—125 lbs. Lead and zinc.

Lot 10—450 lbs. red and yellow brass, copper insulated wire and bronze.

Lot 11—125 New plow points.

Lot 12—100 Hard-wood barrels.

Lot 13—150 Hard-wood barrels. Situated at Gravel Pit, Ocean Parkway, near Avenue "P."

Lot 14—1 Coyote.

Lot 15—1 Zebu.

Lot 16—1 Deer.

Lot 17—2 Aoudads.

Lot 18—3 Angora Goats.

Lot 19—3 Wolves.

Lot 20—5 Sheep.

Lot 21—25 Lambs.

TERMS OF SALE.

These lots will be sold separately to the highest bidder on each lot number, per gross ton (2,240 pounds) or per pound, as the weight may be given. No bid will be considered or accepted for less than the entire quantity in each lot, from 1 to 13, inclusive.

The quantities indicated are approximately only, and the net payments will be based on actual weights determined by the City's representative on the City's scales on the premises, or at the expense of the purchaser on the nearest public scale. No scrap can be removed except in the presence of the City's designated representative.

Successful bidders must make payment in cash or certified check drawn to the order of Comptroller at the time and place of the sale as follows: On bids of \$200 or less, in full; on bids in excess of \$200, deposit of 50% will be required at time of sale and full payment on such lots based upon the estimated

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the office of the Department of Parks, Municipal Building, Manhattan, until 3 p. m. on

THURSDAY, JUNE 29, 1916.
FOR REPAIRS AND ALTERATIONS TO BOATHOUSE, PROSPECT PARK, BOROUGH OF BROOKLYN, CITY OF NEW YORK, TOGETHER WITH WORK INCIDENTAL THERE TO.

The amount of security required is Five Hundred Dollars (\$500).

The time allowed to complete the work will be twenty (20) consecutive working days.

Certified check or cash in the sum of Twenty-five Dollars (\$25) must accompany bid.

Blank forms and other information may be obtained at the office of the Department of Parks, Brooklyn, Litchfield Mansion, Prospect Park West and 5th st., Prospect Park, Brooklyn.

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

CABOT WARD, President; RAYMOND V. INGERSOLL, THOMAS W. WHITTLE, JOHN E. WEIER, Commissioners of Parks. j17.29

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

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board, at the office of the Department of Parks, Municipal Building, Manhattan, until 3 p. m. on

THURSDAY, JUNE 29, 1916.
Borough of The Bronx.

FOR FURNISHING ALL LABOR AND MATERIALS FOR CONSTRUCTING AND LAYING HEXAGONAL ASPHALT TILE WALKS IN ECHO PARK, IN THE BOROUGH OF THE BRONX, IN THE CITY OF NEW YORK.

The amount of security required is Eight Hundred Dollars (\$800).

The time allowed to complete the work will be thirty (30) consecutive working days.

Certified check or cash in the sum of Forty (40) Dollars must accompany bid.

Blank forms and other information may be obtained at the office of the Department of Parks, Borough of The Bronx, Zbrowski Mansion, Claremont Park, Bronx.

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

CABOT WARD, President; RAYMOND V. INGERSOLL, THOMAS W. WHITTLE, JOHN E. WEIER, Commissioners of Parks. j17.29

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

BELLEVUE AND ALLIED HOSPITALS, DEPARTMENT OF PUBLIC CHARITIES, DEPARTMENT OF HEALTH.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by Bellevue and Allied Hospitals, Department of Public Charities and Department of Health, at Room 1230, Municipal Building, Manhattan, until 12 noon on

MONDAY, JULY 3, 1916.
FOR FURNISHING AND DELIVERING MEATS AND POULTRY.

The time for the performance of the contract is on or before Sept. 30, 1916.

The amount of security required is thirty (30) per cent. of the amount of the bid or estimate.

No bid will be considered unless it is accompanied by a deposit. Such deposit shall be in an amount not less than one and one-half (1½) per cent. of the total amount of the bid.

The bidder will state the price per pound, or other designated unit, 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, if made, shall be to the lowest bidder on each item, as stated in the specifications.

Bids must be submitted in duplicate, each in a separate envelope. No bid will be accepted unless this provision is complied with.

Blank forms and further information may be obtained at Room 1230, Municipal Building, Manhattan.

BOARD OF TRUSTEES, BELLEVUE AND ALLIED HOSPITALS, JOHN W. BRANNAN, M. D., President.

DEPARTMENT OF PUBLIC CHARITIES, JOHN A. KINGSBURY, Commissioner.

DEPARTMENT OF HEALTH, H. EMMERSON, Commissioner. j20.jy3

See General Instructions to Bidders on last page, last column, of the "City Record," except for the address of the office for receiving and opening bids.

COMMISSIONERS OF THE SINKING FUND.

Notices of Public Hearings.

NOTICE IS HEREBY GIVEN THAT THE Commissioners of the Sinking Fund, pursuant to the provisions of Chapter 372 of the Laws of 1907, will hold a public hearing at 11 o'clock in the forenoon on Thursday, July 13, 1916, in Room 16, City Hall, Borough of Manhattan, relative to the amendment of the new plan for the improvement of the waterfront between E. 52nd and E. 61st sts., Mill Basin, Borough of Brooklyn, made and adopted by the Commissioner of Docks in accordance with law June 15, 1916.

The proposed alteration and amendment of that portion of the new plan for the improvement of the waterfront and harbor of The City of New York, determined by the Commissioner of Docks March 26, 1915, and April 12, 1915, and approved by the Commissioners of the Sinking Fund May 5, 1915, and May 19, 1915, between Flatbush ave. and E. 61st st., Mill Basin, Borough of Brooklyn, consists in:

(1st) The discontinuing of that portion of the marginal street, wharf or place lying between the center line of Hindsdale ave., extended, and the center line of E. 56th st.

(2nd) The discontinuing of that portion of the bulkhead line adopted by the Commissioner of Docks lying between the northerly side of E. 52nd st. and the southerly side of E. 61st st.

(3rd) The establishment of a bulkhead and pierhead line described as follows: The bulkhead line beginning at a point in the bulkhead line adopted by the Commissioner of Docks at its intersection with the northerly side of E. 52nd st. prolonged; running thence easterly and along the prolongation of the northerly side of E. 52nd st. to its intersection with a line drawn parallel to and distant 650 feet (measured along said E. 52nd st.) easterly from the easterly line of Avenue U; thence northerly along said line parallel to and always distant 650 feet from the easterly line of Avenue U to its intersection with the said pierhead and bulkhead line re-established by the Secretary of War August 31, 1915, at or near the southerly line of E. 56th st., and thence a pierhead and bulkhead line in prolongation of said bulkhead line parallel to and distant 650 feet easterly from the easterly line of Avenue U and coincident with the high water line above described; thence northwesterly, still coincident with the said high water line, to a point therein distant 25 feet (measured at right angles to Avenue U) easterly from the easterly line of Avenue U; and thence northerly parallel to Avenue U to the southerly line of E. 61st st.

The plan is open to the inspection of any citizen at the office of the Comptroller of the City of New York (Room 738, Municipal Building) at all times during office hours until the day of the hearing.

Dated: June 22, 1916.
JOHN PURROY MITCHEL, Mayor, and Chairman, Commissioners of the Sinking Fund. j26.jy1

NOTICE IS HEREBY GIVEN THAT THE Commissioners of the Sinking Fund, pursuant to the provisions of Chapter 372 of the Laws of 1907, will hold a public hearing at 11 o'clock in the forenoon on Thursday, July 13, 1916, in Room 16, City Hall, Borough of Manhattan, relative to the amendment of the new plan for the improvement of the waterfront between E. 52nd and E. 61st sts., Mill Basin, Borough of Brooklyn, made and adopted by the Commissioner of Docks in accordance with law June 15, 1916.

The proposed alteration and amendment of those portions of the plans for the improvement of the waterfront and harbor of The City of New York, adopted by the Commissioner of Docks Oct. 2, 1903, and Feb. 27, 1907, and approved by the Commissioners of the Sinking Fund Nov. 18, 1903, and April 3, 1907, between W. 133rd and W. 135th St., N. R., Borough of Manhattan, consists in:

(1st) The discontinuing of that portion of the marginal street, wharf or place, adopted by the Commissioner of Docks between the northerly side of W. 133rd St. and a line 60 feet north of and parallel with the southerly side of West 135th Street.

(2nd) The adoption of a bulkhead line described as follows: Beginning at a point in the bulkhead line approved by the Secretary of War, Oct. 18th, 1890, where the same is intersected by the westerly prolongation of the northerly side of W. 133rd st.; running thence westerly and along the westerly prolongation of the northerly side of W. 133rd st. to a point in same distant 424.5 feet from the westerly side of 12th ave.; thence northerly and along a line parallel with and distant 424.5 feet west of the westerly side of 12th ave. to its intersection with a line drawn parallel with and distant 60 feet north of the southerly side of W. 135th st.; thence easterly and along said line parallel with and distant 60 feet north of the southerly side of West 135th Street to its intersection with the bulkhead line approved by the Secretary of War, Oct. 18, 1890.

(3rd) The establishment of a marginal street, wharf or place, extending between the northerly side of W. 133rd st. and a line drawn 60 feet north of and parallel with the southerly side of W. 135th st., and between the westerly side of the proposed bulkhead line described above and the westerly line of the proposed right of way of the New York Central Railroad Company, which right of way line is described as follows:

Beginning at a point in the westerly prolongation of the northerly side of W. 133rd st. distant 312.5 feet from the westerly side of 12th ave.; thence northerly and at right angles to the northerly side of W. 133rd st. a distance of 100 feet; thence northerly and along a line curving to the left having a radius of 498 feet to a point of curvature; thence northerly and along a line curving to the right having a radius of 498 feet to a point of tangency with a line drawn parallel with the westerly side of 12th ave. and distant 324.5 feet westerly therefrom; thence northerly and along said parallel line to its intersection with a line drawn parallel with and distant 60 feet north of the southerly side of W. 135th st.

(4th) The discontinuing of those portions of the W. 134th and W. 135th st. piers lying between the proposed bulkhead line described above and the bulkhead line approved by the Secretary of War in 1890.

The plan is open to the inspection of any citizen at the office of the Comptroller of the City of New York (Room 738, Municipal Building) at all times during office hours until the day of the hearing.

Dated: June 22, 1916.
JOHN PURROY MITCHEL, Mayor, and Chairman, Commissioners of the Sinking Fund. j26.jy1

NOTICE IS HEREBY GIVEN THAT THE Commissioners of the Sinking Fund, pursuant to the provisions of Chapter 372 of the Laws of 1907, will hold a public hearing at 11 o'clock in the forenoon on Thursday, July 13, 1916, in Room 16, City Hall, Borough of Manhattan, relative to the new plan layout in the vicinity of Milton st., East River, Borough of Brooklyn, made and adopted by the Commissioner of Docks in accordance with law June 2, 1916.

The proposed new plan consists in the establishment of one pier 90 feet in width and extending outshore, to the established pierhead line, the south side of said pier being 50 feet north of the center line of Milton st. This layout will give a slip room of 280 feet north of and parallel with the northerly side of Noble Street.

The plan is open to the inspection of any citizen at the office of the Comptroller of the City of New York (Room 738, Municipal Building) at all times during office hours until the day of the hearing.

Dated: June 22, 1916.
JOHN PURROY MITCHEL, Mayor, and Chairman, Commissioners of the Sinking Fund. j26.jy1

NOTICE IS HEREBY GIVEN THAT THE Commissioners of the Sinking Fund, pursuant to the provisions of Chapter 372 of the Laws of 1907, will hold a public hearing at 11 o'clock in the forenoon on Thursday, July 13, 1916, in Room 16, City Hall, Borough of Manhattan, relative to the new plan between Montague and State Streets, East River, Borough of Brooklyn, made and adopted by the Commissioner of Docks in accordance with law June 7, 1915.

The proposed amendment to the new plan consists in the abolishment of three piers southwesterly of Montague St., East River, Borough of Brooklyn, as shown on the new plan for improving the waterfront and harbor of the City of New York, adopted by the Commissioner of Docks Nov. 29, 1915, and approved by the Commissioners of the Sinking Fund Jan. 12, 1916, and adopting in place thereof three piers, each 125 feet in width extending from the established bulkhead line to the established pierhead line, the first pier south of Montague Street being distant 257.5 feet south of, measured along the established bulkhead line, the southerly side of the pier foot of Montague St., as shown on the plan adopted by the Commissioner of Docks Nov. 29, 1915, and approved by the Commissioners of the Sinking Fund Jan. 12, 1916, the proposed pier making an angle on the southerly outshore side of 91° 8' with the established bulkhead line, the second pier being distant 257.5 feet south of, measured along the established bulkhead line, the southerly side of the first proposed pier south of Montague st., described above, the second proposed pier making an angle on the southerly outshore side of 90° 53' with the established bulkhead line, the third proposed pier being distant 190 feet south of and parallel with the southerly side of the second proposed pier south of Montague Street, just above described.

The plan is open to the inspection of any citizen at the office of the Comptroller of the City of New York (Room 738, Municipal Building) at all times during office hours until the day of the hearing.

Dated: June 22, 1916.
JOHN PURROY MITCHEL, Mayor, and Chairman, Commissioners of the Sinking Fund. j26.jy1

NOTICE IS HEREBY GIVEN THAT THE Commissioners of the Sinking Fund, pursuant to the provisions of Chapter 372 of the Laws of 1907, will hold a public hearing at 11 o'clock in the forenoon on Thursday, July 13, 1916, in Room 16, City Hall, Borough of Manhattan, relative to the proposed new plan for improvement of the water front between Mill Basin and Fresh Creek Basin, Jamaica Bay, Borough of Brooklyn, made and adopted by the Commissioner of Docks in accordance with law June 21, 1916.

TECHNICAL DESCRIPTION.
The Proposed New Plan consists:

1st. In the establishing a pierhead line between Mill Basin and Fresh Creek Basin in shore of the pierhead line established by the Secretary of War.

2nd. In the establishing a bulkhead line partly inshore of and partly coincident with the pierhead line.

3rd. The establishing of a marginal street, wharf, or place, around the head of Paerdegat Basin, and

4th. The establishing of an exterior line of channel 1,000 feet outshore of the pierhead line.

(a) Beginning at a point in the pierhead and bulkhead line established by the Secretary of War at the north side of Mill Basin whose co-ordinates are South 22,992.94, East 22,518.26; and running thence northerly in a straight line toward a point in the pierhead and bulkhead line established by the Secretary of War along the west side of Paerdegat Basin at its intersection with the southerly line of Avenue U prolonged, to a point in said straight line 600 feet south of its intersection with a line drawn 730 feet south of and parallel with the southerly line of Avenue Y; thence in a straight line to a point in the southerly side of Avenue Y, 500 feet westerly from its intersection with the prolongation of the first course above described; thence along a line parallel with and 730 feet south of the southerly side of Avenue Y to the easterly side of E. 69th st. prolonged.

(b) Beginning at a point in the easterly side of East 69th Street at its intersection with the line drawn 430 feet south of and parallel with the southerly side of Avenue Y; and running thence easterly and along said parallel line to point 500 feet westerly from its intersection with the first course above described under (a); thence in a straight line to a point in the prolongation of the first course above described under (a) 600 feet north of its intersection with a line drawn parallel with and 430 feet south of and parallel with the southerly side of Avenue Y; thence in a straight line to and along the prolongation of the first course above described under (a) to its intersection with the southerly side of Avenue U prolonged.

(c) Beginning at a point in the pierhead and bulkhead line established by the Secretary of War along the easterly side of Paerdegat Basin at its intersection with a line drawn parallel with and 950 feet north of the pierhead and bulkhead line established by the Secretary of War between Paerdegat Basin and Fresh Creek Basin; and running thence easterly and along said parallel line to its intersection with the pierhead and bulkhead line established by the Secretary of War along the westerly side of Fresh Creek Basin.

(d) Beginning at a point in the pierhead and bulkhead line established by the Secretary of War along the easterly side of Fresh Creek Basin at its intersection with a line drawn 950 feet north of and parallel with the pierhead and bulkhead line established by the Secretary of War; running thence easterly and along said parallel line until intersected by the westerly prolongation of the pierhead and bulkhead line

established by the Secretary of War between Spring Creek Basin and Hawtree Basin; thence easterly and along said westerly prolongation of the pierhead and bulkhead line established by the Secretary of War to a point in the same whose co-ordinates are South 11,140.88, East 29,384.90.

Bulkhead Line.
(a) Beginning at a point in the pierhead and bulkhead line established by the Secretary of War along the north side of Mill Basin at its intersection with a line drawn 1,000 feet west of and parallel with the proposed pierhead line above described, under (a); and running thence northerly and along said parallel line to the southerly side of the basin south of Bergen Beach.

(b) Beginning at a point in the pierhead and bulkhead line established by the Secretary of War along the easterly side of Paerdegat Basin at its intersection with a line drawn 1,000 feet north of and parallel with the proposed pierhead line above described, under (a); and running thence easterly and parallel with the proposed pierhead line 1,500 feet; thence in a straight line to a point in the proposed pierhead line at its intersection with the easterly side of East 92nd Street.

(c) Beginning at a point in the proposed pierhead line above described, under (a), at its intersection with the westerly side of East 102nd Street; running thence northerly and along the prolongation of the westerly side of East 102nd Street 1,000 feet; thence easterly and parallel with the proposed pierhead line to the westerly side of Fresh Creek Basin.

(d) Beginning at a point in the pierhead and bulkhead line established by the Secretary of War along the easterly side of Fresh Creek Basin at its intersection with a line drawn 1,000 feet north of the proposed pierhead line above described, under (a); and running thence easterly and parallel with the proposed pierhead line in two courses to the bulkhead line adopted by the Commissioner of Docks Nov. 21st, 1911. Elsewhere the proposed bulkhead line is coincident with the pierhead line above described.

Marginal Street.
The entire area around the head of Paerdegat Basin lying between Paerdegat Avenue South, Ralph ave., Flatlands ave. and Paerdegat Avenue North and the pierhead and bulkhead line established by the Secretary of War north of the southerly side of Bergen 18th st. and the southerly side of Seaview ave., is set aside for marginal street.

Exterior Line of Channel.
The proposed exterior line of channel is 1,000 feet outshore of and parallel with the proposed pierhead line above described, excepting an angle opposite Bergen Beach, where the channel is widened by cutting off the corner between point 1,850 feet each way from the angle.

The plan is open to the inspection of any citizen at the office of the Comptroller of the City of New York (Room 738, Municipal Building) at all times during office hours until the day of the hearing.

Dated: June 22, 1916.
JOHN PURROY MITCHEL, Mayor, and Chairman, Commissioners of the Sinking Fund. j26.jy1

NOTICE IS HEREBY GIVEN THAT THE Commissioners of the Sinking Fund, pursuant to the provisions of Chapter 372 of the Laws of 1907, will hold a public hearing at 11 o'clock in the forenoon on Thursday, July 13, 1916, in Room 16, City Hall, Borough of Manhattan, relative to the amendment to the new plan for improvement of the waterfront between East 134th and West 135th Streets, North River, Borough of Manhattan, made and adopted by the Commissioner of Docks in accordance with law, June 21, 1916.

The proposed alteration and amendment of those portions of the plans for the improvement of the waterfront and harbor of The City of New York, adopted by the Commissioner of Docks Oct. 2, 1903, and Feb. 27, 1907, and approved by the Commissioners of the Sinking Fund Nov. 18, 1903, and April 3, 1907, between W. 133rd and W. 135th St., N. R., Borough of Manhattan, consists in:

(1st) The discontinuing of that portion of the marginal street, wharf or place, adopted by the Commissioner of Docks between the northerly side of W. 133rd St. and a line 60 feet north of and parallel with the southerly side of West 135th Street.

(2nd) The adoption of a bulkhead line described as follows: Beginning at a point in the bulkhead line approved by the Secretary of War, Oct. 18th, 1890, where the same is intersected by the westerly prolongation of the northerly side of W. 133rd st.; running thence westerly and along the westerly prolongation of the northerly side of W. 133rd st. to a point in same distant 424.5 feet from the westerly side of 12th ave.; thence northerly and along a line parallel with and distant 424.5 feet west of the westerly side of 12th ave. to its intersection with a line drawn parallel with and distant 60 feet north of the southerly side of W. 135th st.; thence easterly and along said line parallel with and distant 60 feet north of the southerly side of West 135th Street to its intersection with the bulkhead line approved by the Secretary of War, Oct. 18, 1890.

(3rd) The establishment of a marginal street, wharf or place, extending between the northerly side of W. 133rd st. and a line drawn 60 feet north of and parallel with the southerly side of W. 135th st., and between the westerly side of the proposed bulkhead line described above and the westerly line of the proposed right of way of the New York Central Railroad Company, which right of way line is described as follows:

Beginning at a point in the westerly prolongation of the northerly side of W. 133rd st. distant 312.5 feet from the westerly side of 12th ave.; thence northerly and at right angles to the northerly side of W. 133rd st. a distance of 100 feet; thence northerly and along a line curving to the left having a radius of 498 feet to a point of curvature; thence northerly and along a line curving to the right having a radius of 498 feet to a point of tangency with a line drawn parallel with the westerly side of 12th ave. and distant 324.5 feet westerly therefrom; thence northerly and along said parallel line to its intersection with a line drawn parallel with and distant 60 feet north of the southerly side of W. 135th st.

(4th) The discontinuing of those portions of the W. 134th and W. 135th st. piers lying between the proposed bulkhead line described above and the bulkhead line approved by the Secretary of War in 1890.

The plan is open to the inspection of any citizen at the office of the Comptroller of the City of New York (Room 738, Municipal Building) at all times during office hours until the day of the hearing.

Dated: June 22, 1916.
JOHN PURROY MITCHEL, Mayor, and Chairman, Commissioners of the Sinking Fund. j26.jy1

PUBLIC SERVICE COMMISSION.

Invitation to Contractors.

Part of the Broadway-Fourth Avenue Rapid Transit Railroad.

SEALED BIDS OR PROPOSALS FOR THE construction of part of Route No. 61, a part

of the Broadway-Fourth Avenue Rapid Transit Railroad, will be received by the Public Service Commission for the First District (hereinafter called the "Commission") at the office of the Commission at No. 120 Broadway, Borough of Manhattan, New York City, until the 13th day of July, 1916, at eleven thirty (11:30) o'clock a. m., at which time and place or at a later date to be fixed by the Commission the proposals will be publicly opened.

The said part of Route No. 61 is to be a two-track railroad beginning at E. 60th st. and Second ave., in the Borough of Manhattan, extending thence easterly under E. 60th st., the East River, Blackwells Island, the East River, waterfront property at or near the foot of North Jane st. in the Borough of Queens, private property, North Jane st. and the Queensboro Bridge right of way, and ending at a point between William and Crescent sts.

The work to be done will include the care and support of surface, subsurface and overhead structures, the maintenance of traffic and the restoration of street surfaces.

Construction will be generally in tunnel, but partly in open cut and partly above the surface.

The Contractor must complete all the work within thirty (30) months from the delivery of the contract.

A fuller description of the work and other requirements, provisions and specifications are given in the Information for Contractors, in the form of contract, bond and Contractor's proposal, and in the contract drawings, which are to be deemed a part of this Invitation and copies of which may be inspected and purchased at said office of the Commission.

The receipt of bids will be subject to the requirements specified in said Information for Contractors.

New York, June 21, 1916.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by OSCAR S. STRAUS, Chairman. j23.jy13

For the Supply of Special Work, Order No. 8, For Use In The Construction of Rapid Transit Railroads.

SEALED BIDS OR PROPOSALS FOR THE supply of eighteen Portions of Special Work (Frogs and Switches) for use in the construction of rapid transit railroads (Seventh Avenue Line) will be received by the Public Service Commission for the First District at the office of said Commission at No. 120 Broadway, Borough of Manhattan, New York City, until the 6th day of July, 1916, at eleven thirty (11:30) o'clock a. m., at which time and place or at a later date to be fixed by said Commission, the proposals will be publicly opened.

The Special Work is to be delivered in installments. The Contractor must be prepared to deliver seven portions of the Special Work on the expiration of three months after the delivery of the contract, three more portions on the expiration of five months after such delivery, four more portions on the expiration of eight months after such delivery, three more portions on the expiration of nine months after such delivery, and the remaining portion on the expiration of ten months after such delivery, except as otherwise provided in the form of contract.

The City will furnish to the Contractor the necessary manganese rail for the Special Work, as provided in the form of contract.

A fuller description of the Special Work and other requirements, provisions and specifications are given in the Information for Contractors and in the form of contract, specifications, contract drawings, bond and Contractor's Proposal, which are to be deemed a part of this Invitation and copies of which may be inspected and purchased at said office of said Commission.

The receipt of bids will be subject to the requirements specified in said Information for Contractors.

New York, June 19, 1916.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by OSCAR S. STRAUS, Chairman. j21.jy6

Part of the White Plains Road Rapid Transit Railroad.

SEALED BIDS OR PROPOSALS FOR THE construction of the 180th Street Yard of Route No. 18, a part of the White Plains Road Rapid Transit Railroad, will be received by the Public Service Commission for the First District (hereinafter called the "Commission") at the office of the Commission at No. 120 Broadway, Borough of Manhattan, New York City, until the 26th day of June, 1916, at eleven-thirty o'clock a. m., at which time and place, or at a later date to be fixed by the Commission, the proposals will be publicly opened.

The said part to be constructed is to be an elevated railroad consisting of embankment with masonry walls, in the Borough of The Bronx, extending over and along City property, bounded on the south by E. 180th st., on the west by Bronx Park and on the north and east by the main line of the White Plains Road Rapid Transit Railroad.

The work to be done will include the care and support, and, where necessary, the readjustment of surface, subsurface and overhead structures, the maintenance of traffic and the restoration of street surfaces.

The Contractor must complete the work within twelve (12) months from the delivery of the contract.

A fuller description of the work and other requirements, provisions and specifications are given in the Information for Contractors and in the form of contract, contract drawings, bond and Contractor's Proposal, which are to be deemed a part of this Invitation and copies of which may be inspected and purchased at said office of the Commission.

The receipt of bids will be subject to the requirements specified in said Information for Contractors.

New York, June 8, 1916.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by OSCAR S. STRAUS, Chairman. j9.26

DEPARTMENT OF DOCKS AND FERRIES.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by Department of Docks and Ferries at Room 1230, Municipal Building, Manhattan, until 12 noon on

FRIDAY, JULY 7, 1916.
FOR FURNISHING AND DELIVERING COAL.

The time for the performance of the contract is on or before Aug. 31, 1916.

The amount of security required is thirty (30) per cent. of the amount of the bid or estimate.

No bid will

separate envelope. No bid will be accepted unless this provision is complied with.

Blank forms and further information may be obtained at Room 1230, Municipal Building, Borough of Manhattan.

DEPARTMENT OF DOCKS AND FERRIES, R. A. C. SMITH, Commissioner, j24,jy7

See General Instructions to Bidders on last page, last column, of the "City Record," except for the address of the office for receiving and opening bids.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Docks at his office, Pier "A," foot of Battery Place, North River, Manhattan, until 12 noon on

WEDNESDAY, JULY 5, 1916,
CONTRACT NO. 1527.

FOR PAINTING THE PIER SHEDS ON PIER "A" AND AT THE FOOT OF 50TH ST. AND 129TH ST., NORTH RIVER; PIERS NO. 27 AND NO. 33, AND FOOT OF MARKET ST., 3RD ST. AND 24TH ST. EAST RIVER, AND 11TH ST., HARLEM RIVER, BOROUGH OF MANHATTAN, AND NORTH 2ND ST., EAST RIVER, BOROUGH OF BROOKLYN.

The time for the completion of the work and the full performance of each class of the contract is on or before the expiration of 60 calendar days.

The amount of security required in each class is as follows:

Class 1. Painting at Pier "A," 50th st. and 129th st., North River, the sum of \$1,000.00.

Class 2. Painting at Market st., 3rd st. and 24th st., Pier 27 and Pier 33, East River, 11th st., Harlem River, and N. 2nd st., East River, Borough of Brooklyn, the sum of \$1,600.00.

The bidder shall state, both in writing and in figures, a price for furnishing all of the labor and materials and for doing all of the work called for in the class on which he desires to bid. Each class forms a separate and distinct contract, and, if awarded, will be awarded to the bidder whose price for doing all of the work called for in that particular contract is the lowest and whose bid is regular in all respects. In case of discrepancy between the written price and that given in figures, the price in writing will be considered as the bid.

Work must be done at the time and in the manner directed.

Blank forms and further information may be obtained at the office of the said Department.

R. A. C. SMITH, Commissioner of Docks.
Dated June 21, 1916. j24,jy5

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

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Docks at his office, Docks and Feries, Pier "A," foot of Battery Place, North River, Manhattan, until 12 noon on

MONDAY, JUNE 26, 1916,
CONTRACT NO. 1530.

FOR FURNISHING HORSES, WITH HARNESS AND DRIVERS, FOR CARTING COAL TO AND REMOVING ASHES, ETC., FROM THE MUNICIPAL FERRYBOATS IN THE BOROUGH OF BROOKLYN AND RICHMOND.

The time for the completion of the work and the full performance of each class of the contract is Dec. 31, 1916.

The amount of security required is as follows:

Class 1—For about 1,566 days' service of horse, harness and driver, the sum of \$1,500.

Class 2—For about 522 days' service of horse, harness and driver, the sum of \$500.

The bidder shall state, both in writing and in figures, a price per day of eight hours for one horse, with harness and driver, for furnishing all of the horses with harness and drivers, necessary to do all of the work called for in the class on which a bid is submitted. The bidder may bid on one or both classes, as each class is a separate and distinct contract in itself and awards, if made, will be made in each class to the bidder whose price per day of eight hours for one horse, with harness and driver, is the lowest and whose bid is regular in all respects. In case of discrepancy between the written price and that given in figures the price in writing will be considered as the bid.

Horses with harness and drivers must be furnished 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 said Department.

R. A. C. SMITH, Commissioner of Docks.
Dated June 12, 1916. j14,26

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

BOARD OF ASSESSORS.

Completion of Assessments.

PUBLIC NOTICE IS HEREBY GIVEN TO the owner of all houses and lots, improved and 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 the Bronx.

4835. Regulating, grading, curbing, flagging, etc., St. Raymond, from Hugot ave. to Williamsbridge rd., together with a list of awards for damages caused by a change of grade. Affecting Blocks 3945 to 3948, 3961, 3967, 3971, 3972, 3979, 3986 to 3992, 3994, 4000, 4002, 4076 and 4077.

4926. Regulating, grading, curbing, flagging, etc., Wallace ave., from the N. Y. N. H. & H. R. R. to Bronxville ave., together with a list of awards for damages caused by a change of grade. Affecting Blocks 4035, 4036, 4039, 4040, 4052, 4053, 4260 and 4261.

5119. Regulating, grading, curbing, flagging, etc., Rosewood (Elizabeth) st. from Bronx Boulevard to White Plains ave., together with an award for damages caused by a change of grade. Affecting Blocks 4593 to 4595 and 4622 to 4624.

5148. Sewers and appurtenances in Watson ave., between Thieriot ave. and Beach ave., and in Beach ave. between Watson ave. and Westchester ave. Affecting Blocks 3728, 3729, 3753 to 3755 and 3763 to 3765.

5187. Sewers and appurtenances in Newton ave., between W. 253rd st. and Faraday ave., and between Moshulu ave. and W. 260th st., with a temporary connection at W. 256th st. Affecting Blocks 3421 and 3423.

Borough of Brooklyn.

4535. Sewer in E. 21st st. from Avenue M to Avenue O. Affecting Blocks 7656, 7657, 7674 and 7675.

4995. Regulating, grading, curbing, flagging and paving First st. between Foster and 18th aves., together with a list of awards for damages caused by a change of grade. Affecting Blocks 5401, 5402, 5417, 5418, 5421, 5424, 5425, 5428 and 5429.

5031. Sewers, force main and substructures of the Sewage Pumping Station, Section No. 1 of the sanitary, outfall sewers, storm outlet sewers and the force main in Avenue V from the westerly line of W. 11th st. to the easterly line of W. 10th st., together with all sanitary outlet sewers, storm outlet sewers and the force main and the sewage pumping station and all adjuncts and appurtenances within the parcel of land between W. 10th st. and W. 11th st.,

and between Avenue V and a line parallel therewith and 200 feet southerly therefrom; Sewers, etc., in Bay 35th st. from Bath ave. to Benson ave.; Benson ave. from Bay 35th st. to Stillwell ave.; crossing Stillwell ave. to Avenue V; Avenue V from Stillwell ave. to W. 11th st.; Benson ave. from Stillwell ave. to 21st ave.; Coney Island ave. from Avenue O to Avenue U; Avenue U from Van Sicklen st. to E. 17th st. and from 40 feet west of W. 7th st. extending westerly about 100 feet; Avenue V from Van Sicklen st. to W. 10th st.; Gravesend ave. from Avenue T to Gravesend Neck rd.; Van Sicklen st. from Avenue U to Avenue V; Bath ave. from 21st ave. to Bay 35th st.; E. 16th st. from Kings Highway to Avenue U; Avenue P from E. 9th st. to E. 17th st.; E. 15th st. from Avenue O to Avenue R, and from Avenue S to sewer summit between Avenue U and Avenue V; Kings Highway from E. 9th st. to E. 17th st.; E. 12th st. from Avenue O to Avenue S; E. 13th st. and E. 14th st. from Avenue O to sewer summit between Avenue U and Avenue V; Avenue R from Coney Island ave. to E. 16th st.; E. 9th st. from Avenue O to Avenue Q and from Avenue T to Avenue U; E. 10th st. from Avenue O to Avenue Q; Avenue Q from E. 9th st. to Coney Island ave. and from a point about 20 feet west of W. 7th st. extending westerly about 140 feet; Homestead ave. from Avenue S to Avenue U; E. 17th st. from Avenue O to Avenue P and from Avenue S to Avenue U; Avenue S from E. 16th st. to Coney Island ave. and Avenue T from Coney Island ave. to E. 18th st. Affecting Blocks 6253, 6265, 6277, 6289, 6300, 6318, 6319, 6330, 6331, 6335, 6336, 6347, 6348, 6378 to 6383, 6412 to 6417, 6445 to 6450, 6491, 6556 to 6562, 6564 to 6568, 6574 to 6590, 6593 to 6685, 6758 to 6766, 6774 to 6782, 6794 to 6802, 6817 to 6825, 6846 to 6919, 6924, 6925, 6927 to 6954, 7075 to 7220, 7222 to 7239, 7242 to 7244, 7290 to 7298, 7315 to 7324, 7343 to 7352, 7371 to 7380, 7394 to 7404, 7411 to 7421, 7430 to 7440, 7454 to 7460, 7462, 7463 and 7464.

5156. Basins on Glenmore ave. at the north-west corner of Pine st. at the northeast corner of Hemlock st. and at the southeast and southwest corners of Railroad ave. Affecting Blocks 4195, 4198, 4199 and 4218.

5189. Sewers, etc., in Kingston ave. from Rutland rd. to a point within the Kingston ave. Hospital Grounds, east of and adjacent to Kingston ave., about 130 feet south of Rutland rd., and from said point through Kingston ave. to Winthrop st.; in Winthrop st. from Kingston ave. to Albany ave. and in Albany ave. from Winthrop st. to Clarkson ave. Affecting Blocks 1279, 1285, 1286, 1292, 1293, 1299, 1300, 1311, 1312, 1316, 1317, 1321 to 1326, 1330 to 1333, 4791 to 4794, 4796 to 4799, 4801 to 4804, 4809 to 4812, 4814 to 4817, 4820, 4821 and 4829 to 4833.

5191. Paving 72nd st. from 10th ave. to 11th ave. Affecting Blocks 5903 and 5914.

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, Room 809, Municipal Building, Manhattan, New York, on or before Tuesday, July 25, 1916, at 10 a. m., at which time and place the said objections will be heard and testimony received in reference thereto.

WILLIAM C. ORMOND, JACOB I. LESSER,
ST. GEORGE B. TUCKER, Board of Assessors.
St. George B. Tucker, Secretary.
June 24, 1916. j24,jy6

STATE INDUSTRIAL COMMISSION—DEPARTMENT OF LABOR.

Public Notice.

Whereas, The Jamaica Consumers Ice Co. of South and Morris Sts., Jamaica, L. I., has made an application for exemption from the requirements of Section 8-a for the engineers, firemen, coal passers and tank men employed in its plant at the foregoing address, and

Whereas, investigation shows that the engineers, firemen and coal passers work eight hours per day seven days per week and the tankmen work eleven hours per day seven days per week, therefore

Be it resolved that exemption be and hereby is granted from the provisions of Section 8-a for the engineers, firemen and coal passers, but not for the tankmen unless these employees are put on a schedule of not more than eight hours per day.

STATE OF NEW YORK, OFFICE OF THE STATE INDUSTRIAL COMMISSION, s. s.:

I, HENRY D. SAYER, Secretary of the State Industrial Commission of the State of New York, DO HEREBY CERTIFY that I have compared the foregoing copy of a resolution with the original thereof, duly adopted by the State Industrial Commission on the 21st day of June, 1916, and duly filed in the office of said Commission, and that the same is a true and correct copy and transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the State Industrial Commission this 23rd day of June, 1916.

H. D. SAYER, Secretary.
Seal. j26

BOARD OF ESTIMATE AND APPORTIONMENT.

Notices of Public Hearings.

PUBLIC IMPROVEMENT MATTERS.

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 16, 1916 (Cal. No. 98), the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of the City of New York is considering the advisability of instituting proceedings to acquire title to the real property required for the opening and extending of New Utrecht avenue from 81st street to 86th street, subject to the easements of the Nassau Electric Railway Company, and of the New York Municipal Railway Corporation; 82nd street from Bay 16th street to New Utrecht avenue, in the Borough of Brooklyn, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the real property required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings;

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that the proposed modified area of assessment for benefit in these proceedings is as follows:

Beginning at a point on the northeasterly line of 84th street where it is intersected by a line bisecting the angle formed by the intersection of the prolongations of the southeasterly line of 12th avenue and the northwesterly line of Bay 16th street as these streets are laid out north of 84th street, and running thence northeasterly along the said bisecting line to the intersection with the center line of 81st street; thence southeasterly along the center line of 81st street to the intersection with a line at right angles to 81st street and passing through a point on its south-

westerly side midway between New Utrecht avenue and 18th avenue; thence southwesterly along the said line at right angles to 81st street to the intersection with a line midway between 81st street and 82nd street as these streets are laid out where they adjoin 18th avenue; thence southeasterly along the said line midway between 81st street and 82nd street to a point distant 100 feet southeasterly from the southeasterly line of 18th avenue; thence southwesterly and always distant 100 feet southeasterly from and parallel with the southeasterly line of 18th avenue to the intersection with a line midway between 82nd street and 83rd street; thence southeasterly along the said line midway between 82nd street and 83rd street to a point distant 100 feet northwesterly from the northwesterly line of 19th avenue; thence southwesterly and parallel with 19th avenue to the intersection with a line midway between 84th street and 85th street; thence southeasterly along the said line midway between 84th street and 85th street to a point distant 100 feet southeasterly from the southeasterly line of 19th avenue; thence southwesterly and parallel with 19th avenue to the intersection with a line midway between 85th street and 86th street; thence southeasterly along the said line midway between 85th street and 86th street to the intersection with the prolongation of a line midway between Bay 23rd street and 20th avenue; thence southwesterly along the said line midway between Bay 23rd street and 20th avenue, along the prolongation of the said line, to a point distant 100 feet southwesterly from the southwesterly line of 86th street; thence northwesterly and parallel with 86th street to the intersection with a line midway between Bay 22nd street and Bay 23rd street; thence southwesterly along the said line midway between Bay 22nd street and Bay 23rd street to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the southwesterly line of 86th street and the northeasterly line of Benson avenue as these streets are laid out between Bay 22nd street and Bay 23rd street; thence northwesterly along the said bisecting line to the intersection with a line midway between 9th avenue and Bay 22nd street; thence southwesterly along the said line midway between 9th avenue and Bay 22nd street to the intersection with a line distant 100 feet southwesterly from and parallel with the southwesterly line of Benson avenue as this street is laid out between 19th avenue and Bay 22nd street, the said distance being measured at right angles to Benson avenue; thence northwesterly along the said line parallel with Benson avenue and along the prolongation of the said line to the intersection with a line midway between Bay 17th street and 18th avenue; thence northwesterly along the said line midway between Bay 17th street and 18th avenue to the intersection with the southwesterly line of 86th street; thence northwesterly along the said line midway between 86th street and 87th street to the intersection with a line midway between 17th avenue and Bay 16th street as these streets are laid out south of 84th street; thence northwesterly along the said line midway between 17th avenue and Bay 16th street to the intersection with a line distant 100 feet northwesterly from and parallel with the northwesterly line of 84th street; thence northwesterly along the said line to the point or place of beginning.

Resolved, That this Board consider the proposed modified area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on Friday, July 7, 1916, at 10:30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in The City Record and in the Corporation Newspapers for ten days, exclusive of Sundays and legal holidays, prior to Friday, July 7, 1916.

Dated June 23, 1916.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j23,jy5

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 9, 1916 (Cal. No. 13), the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of the City of New York is considering the advisability of instituting proceedings to acquire title to the real property required for the opening and extending of Clifford place, from Walton avenue to Grand Boulevard and Concourse, and to the real property required for the widening of East 174th street on its northerly side, at the intersection with Grand Boulevard and Concourse, in the Borough of the Bronx, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the real property required for the foregoing

days, exclusive of Sundays and legal holidays, prior to Friday, July 7, 1916.

Dated June 23, 1916.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j23,jy5

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 16, 1916 (Cal. No. 97), the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of the City of New York is considering the advisability of instituting proceedings to acquire title to the real property required for the opening and extending of Lafayette avenue from Flatbush avenue to Fulton street, in the Borough of Brooklyn, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the real property required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings;

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that the proposed modified area of assessment for benefit in these proceedings is as follows:

Beginning at a point on the northeasterly line of Flatbush avenue, where it is intersected by the prolongation of a line distant 100 feet westerly from and parallel with the westerly line of 3rd avenue, the said distance being measured at right angles to 3rd avenue, and running thence eastwardly and parallel with Lafayette avenue to the intersection with a line midway between Fort Greene place and South Elliott place; thence southwardly along the said line midway between Fort Greene place and South Elliott place to the intersection with a line distant 100 feet northerly from and parallel with the northerly line of Lafayette avenue, the said distance being measured at right angles to Lafayette avenue; thence eastwardly along the said line parallel with Lafayette avenue to the intersection with a line midway between South Elliott place and South Portland avenue; thence southwardly along the said line midway between South Elliott place and South Portland avenue to the intersection with a line midway between Lafayette avenue and Hanson place; thence westwardly along the said line midway between Lafayette avenue and Hanson place to the intersection with the northeasterly line of Flatbush avenue; thence southwesterly at right angles to Flatbush avenue to a point distant 100 feet southwesterly from its southwesterly side; thence northwesterly and parallel with Flatbush avenue to the intersection with a line midway between State street and Schermerhorn street; thence westwardly along the said line midway between State street and Schermerhorn street to the intersection with a line parallel with 3rd avenue and passing through the point of beginning; thence northwardly along the said line parallel with 3rd avenue to the point or place of beginning.

Resolved, That this Board consider the proposed modified area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on Friday, July 7, 1916, at 10:30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

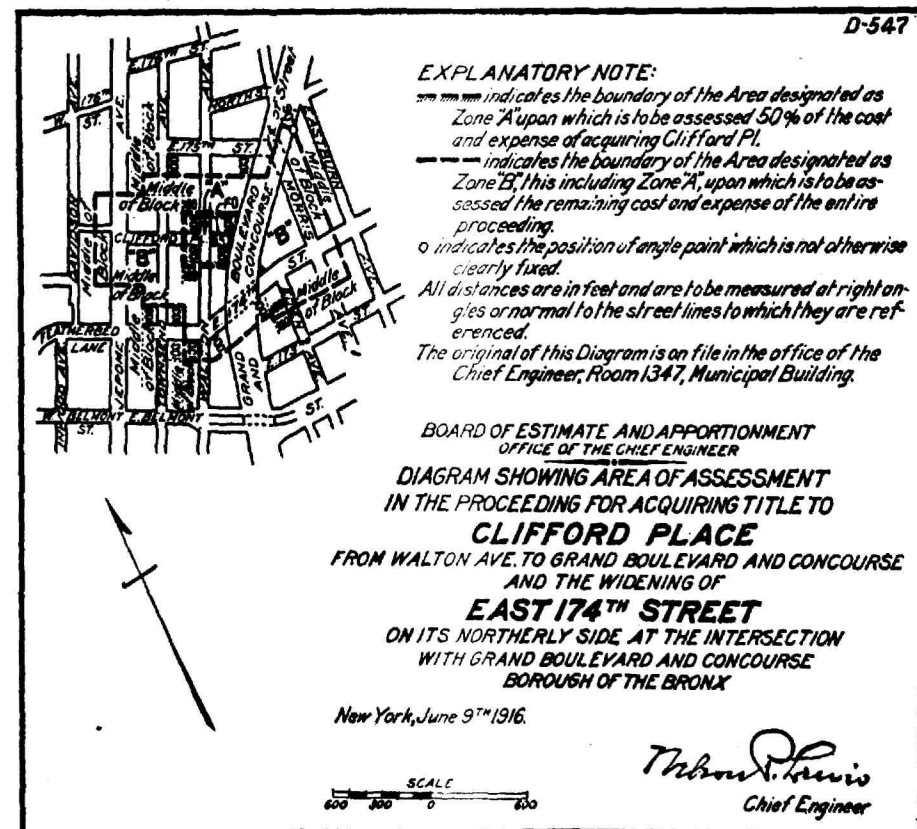
Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in The City Record and in the Corporation Newspapers for ten days, exclusive of Sundays and legal holidays, prior to Friday, July 7, 1916.

Dated June 23, 1916.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j23,jy5

improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that 50 per cent. of the expense of acquiring title to Clifford place from Walton avenue to Grand Boulevard and Concourse is to be assessed upon the area adjoining said Clifford place and designated on the following diagram as Zone "A"; and that the remainder of the expense of acquiring title to Clifford place from Walton avenue to Grand Boulevard and Concourse, and the entire expense of acquiring title to the widening of East 174th street on its northerly side, at the intersection with Grand Boulevard and Concourse, are to be assessed upon the area designated on the following diagram as Zone "B."



Resolved, That this Board consider the proposed areas of assessment and apportionment of cost at a meeting of the Board to be held in the City of New York, Borough of Manhattan, in the City Hall, on Friday, July 7, 1916, at 10:30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in The City Record for ten days, exclusive of Sundays and legal holidays, prior to Friday, July 7, 1916.

Dated June 23, 1916.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j23,jy5

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 16, 1916 (Cal. No. 4), the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment by resolution adopted on March 7, 1912,

authorized a proceeding for acquiring title to the real property required for the widening of Flatbush Avenue Extension between Concord street and Nassau Street, in the Borough of Brooklyn, and directed that 50% of the entire cost and expense of the proceeding be borne and paid by the City of New York, and that the remainder thereof be assessed upon an area deemed to be benefited by the improvement and described in the resolution authorizing the proceeding; and

Whereas, The Board of Estimate and Apportionment is considering the advisability of reconsidering its action with respect to the distribution of the cost and expense of the proceeding and of making a new determination concerning the same, pursuant to the provisions of Section 247 of the Greater New York Charter, as amended by Chapter 512 of the Laws of 1914, by placing 50% of the entire cost and expense of the proceeding upon the City of New York, (This 50% to be in addition to and not to be

clude the amount already placed upon the City by the Commissioner of Assessment as representing one-third of the building damage; by placing 28% of the entire cost and expense upon the Borough of Brooklyn. (This 28% is to be placed upon the Borough of Brooklyn to be collected with the taxes upon the real property in said Borough becoming due and payable in the next succeeding year after the cost and expense of the improvement shall have been fixed and determined); and by placing the remainder of the entire cost and expense of the proceeding upon the following area of assessment:

Beginning at a point on the easterly line of Bridge street where it is intersected by a line midway between High street and Nassau street, and running thence eastwardly along the said line midway between High street and Nassau street to the intersection with the prolongation of a line midway between Bridge street and Duffield street; thence southwardly along the said line midway between Bridge street and Duffield street and along the prolongation of the said line to the intersection with a line always distant 100 feet easterly from and parallel with the easterly line of Flatbush avenue, the said distance being measured at right angles to Flatbush avenue; thence southwardly along the said line parallel with Flatbush avenue and always distant 100 feet therefrom to a point distant 100 feet southwesterly from the southwesterly line of Fulton street, the said distance being measured at right angles to Fulton street; thence northwardly and always distant 100 feet southwesterly from and parallel with the southwesterly line of Fulton street to the intersection with a line always distant 100 feet westerly from and parallel with the westerly line of Flatbush avenue, the said distance being measured at right angles to Flatbush avenue; thence northwardly along the said line parallel with Flatbush avenue and always distant 100 feet therefrom to the intersection with a line midway between Chapel street and Cathedral place; thence westwardly along the said line midway between Chapel street and Cathedral place to the intersection with the prolongation of a line midway between Jay street and Bridge street, as these streets are laid out immediately south of Cathedral place; thence northwardly along the prolongation of the said line midway between Jay street and Bridge street to the intersection with a line midway between Concord street and Chapel street; thence westwardly along the said line midway between Concord street and Chapel street to the intersection with a line midway between Pearl street and Jay street; thence northwardly along the said line midway between Pearl street and Jay street to the intersection with a line midway between High street and Nassau street; thence eastwardly along the said line midway between High street and Nassau street to the intersection with the westerly line of Jay street; thence northwardly along the said line parallel with the westerly line of Jay street to the intersection with the easterly line of Bridge street to the point or place of beginning.

Resolved, that this Board consider the proposed redistribution of the cost and expense of the proceeding at a meeting of the Board to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, July 7, 1916, at 10:30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, that the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the City Record and in the Corporation Newspapers for ten days continuously, Sundays and legal holidays excepted, prior to Friday, July 7, 1916.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j23,jy5

Dated June 23, 1916.

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 Haven avenue from Washington avenue to a point 25 feet north of West 171st street; of West 169th street from Fort Washington avenue to Haven avenue; of West 170th street from Fort Washington avenue to Haven avenue; and of West 171st street from Fort Washington avenue to Haven avenue, Borough of Manhattan, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 30, 1916, 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 June 9, 1916 (Cal. No. 144), 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 Haven avenue from Fort Washington avenue to a point 25 feet north of West 171st street; of West 169th street from Fort Washington avenue to Haven avenue; of West 170th street from Fort Washington avenue to Haven avenue; and of West 171st street from Fort Washington avenue to Haven avenue, Borough of Manhattan, which proposed change is more particularly shown upon a map or plan bearing the signature of the Secretary of the Board of Estimate and Apportionment, and dated March 22, 1916.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, June 30, 1916, 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 June, 1916.

Dated June 17, 1916.

JOSEPH HAAG, Secretary, Board of Estimate and Apportionment, Municipal Building. Telephone, 4560 Worth. j17,28

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 New Utrecht avenue from 61st street to 64th street and of 62nd street and 63rd street from 14th avenue to 15th avenue, Borough of Brooklyn, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 30, 1916, 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 June 9, 1916 (Cal. No. 145), 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 New Utrecht avenue from 61st street to 64th street and of 62nd street and 63rd street from 14th avenue to 15th avenue, Borough of Brooklyn, which proposed change is more particularly shown upon a map or plan bearing the signature of the Commissioner of Public Works of the Borough, and dated May 22, 1916.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, the 30th day of June, 1916, 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 June, 1916.

Dated June 17, 1916.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j17,28

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 and grades of the street system within the territory bounded approximately by 27th street, Third avenue, 15th street, Hamilton avenue and Gowanus Bay; and to change the grades of the street system within the territory bounded by 42nd street, Second avenue, 39th street and Gowanus Bay, Borough of Brooklyn, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 30, 1916, 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 June 9, 1916 (Cal. No. 146), 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 and grades of the street system within the territory bounded approximately by 27th street, Third avenue, 15th street, Hamilton avenue and Gowanus Bay; and by changing the grades of the street system within the territory bounded by 42nd street, Second avenue, 39th street and Gowanus Bay, Borough of Brooklyn, which proposed change is more particularly shown upon a map or plan bearing the signature of the Commissioner of Public Works of the Borough, and dated August 21, 1915.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, the 30th day of June, 1916, 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 June, 1916.

Dated June 17, 1916.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j17,28

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 Third avenue from East 189th (Welch) street to Pelham avenue, to include the right of way of the New York and Harlem Railroad, and lay out East 189th (Welch) street across the right of way of the New York and Harlem Railroad, Borough of The Bronx, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 30, 1916, 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 June 9, 1916 (Cal. No. 147), 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 establishing lines and grades for an additional width of Third avenue over the tracks of the New York and Harlem Railroad from the north line of Welch street as acquired in 1887 to the south line of Pelham avenue as acquired in 1869, to include the area between the eastern right of way line of the railroad and the western line of the street acquired as Vanderbilt Avenue West; and by laying out and establishing grades for East 189th street (Welch street) over the tracks of the New York and Harlem Railroad, Borough of The Bronx, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated December 20, 1915.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, June 30, 1916, 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 June, 1916.

Dated June 17, 1916.

JOSEPH HAAG, Secretary, Board of Estimate and Apportionment, Municipal Building. Telephone, 4560 Worth. j17,28

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 188th street between University avenue and Grand avenue, Borough of The Bronx, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 30, 1916, 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 June 9, 1916 (Cal. No. 148), 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 188th street between University avenue and Grand ave-

nue, Borough of The Bronx, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough and dated February 7, 1916.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, June 30, 1916, 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 June, 1916.

Dated June 17, 1916.

JOSEPH HAAG, Secretary, Board of Estimate and Apportionment, Municipal Building. Telephone, 4560 Worth. j17,28

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 line of Maspeth avenue from Marabel avenue to Clermont avenue, and change the grade of Maspeth avenue from Marabel avenue to Willow avenue, of Willow avenue from Perry avenue to Grand street and of Clermont avenue from Perry avenue to Hill street, Borough of Queens, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 30, 1916, 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 June 9, 1916 (Cal. No. 149), 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 line of Maspeth avenue from Marabel avenue to Clermont avenue; and

changing the grade of Maspeth avenue from Marabel avenue to Willow avenue, of Willow avenue from Perry avenue to Grand street, and of Clermont avenue from Perry avenue to Hill street, Borough of Queens, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough and dated January 10, 1916.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, June 30, 1916, 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 June, 1916.

Dated June 17, 1916.

JOSEPH HAAG, Secretary, Board of Estimate and Apportionment, Municipal Building. Telephone, 4560 Worth. j17,28

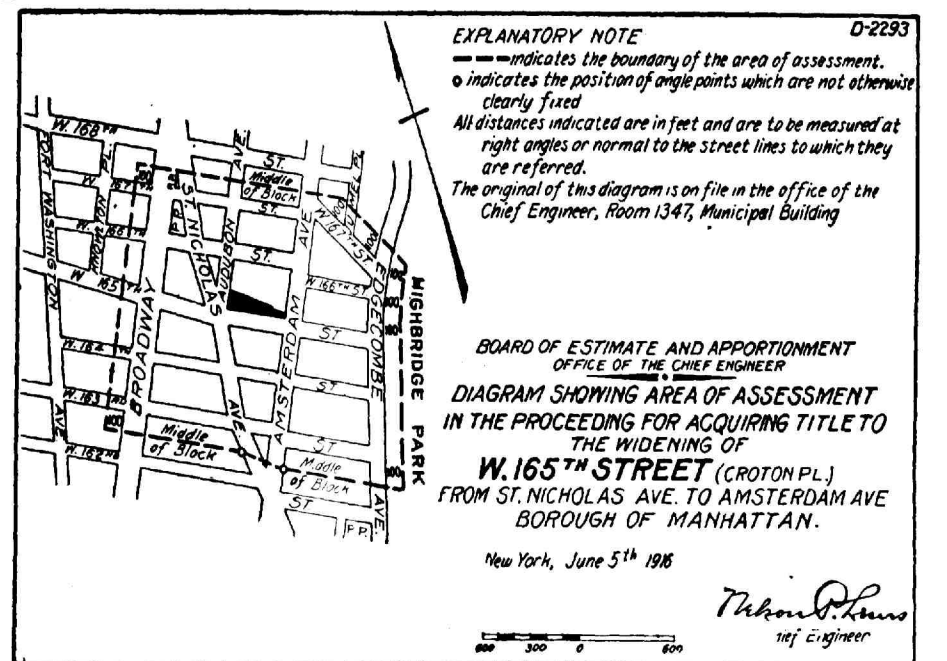
NOTICE IS HEREBY GIVEN THAT AT THE

meeting of the Board of Estimate and Apportionment held on June 9, 1916 (Cal. No. 150), the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the real property required for the widening of West 165th street from Amsterdam avenue to St. Nicholas avenue, in the Borough of Manhattan, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the real property required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings;

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that the proposed area of assessment for benefit in these proceedings is as shown on the following diagram:



Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in the City of New York, Borough of Manhattan, in the City Hall, on Friday, June 30, 1916, at 10:30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the City Record for ten days, exclusive of Sundays and legal holidays, prior to Friday, June 30, 1916.

Dated June 17, 1916.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j17,28

NOTICE IS HEREBY GIVEN THAT AT THE

meeting of the Board of Estimate and Apportionment held on June 9, 1916 (Cal. No. 151), the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the real property required for the opening and extending of Foster avenue from Ralph avenue to the center line of East 92nd street, and from the center line of East 94th street to East 108th street, excluding the right of way of the Canarsie Division of the New York Consolidated Railroad; Avenue D from East 40th street to Vienna avenue, subject to the easements of the Manhattan Beach Division of the Long Island Railroad Company, in the Borough of Brooklyn, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the real property required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings;

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that the proposed area of assessment for benefit in these proceedings is as follows:

Beginning at a point on the westerly line of East 40th street, where it is intersected by a line midway between Clarendon road and Avenue D as these streets are laid out west of Ralph avenue, and running thence eastwardly along the said line midway between Clarendon road and Avenue D and along the prolongation of the said line to the intersection with a line midway between Ditmas avenue and Avenue D as these streets are laid out east of Ralph avenue; thence northwardly along the said line midway between Ditmas avenue and Avenue D to the intersection with the prolongation of a line midway between East 83rd street and East 84th street; thence southwardly along the said prolongation of a line midway between East 83rd street and East 84th street to the intersection with the southeasterly right-of-way line of the Manhattan Beach Division of the Long Island Railroad; thence northwardly along the said right-of-way line to the intersection with a line midway between East 89th street and Remsen avenue; thence northwardly along the said line midway between East 89th street and Remsen avenue to the intersection with a line midway between Ditmas avenue and Avenue D; thence northwardly along the said line midway between Ditmas avenue and Avenue D to the intersection with a line midway between Remsen avenue and East 91st street; thence southwardly along the said line midway between Remsen avenue and East 91st street to the intersection with the southeasterly right-of-way line of the Manhattan Beach Division of the Long Island Railroad; thence northwardly along the said right-of-way line to the intersection with a line midway between East 91st street and East 92nd street; thence northwardly along the said line midway between East 91st street and East 92nd street to the intersection with a line midway between Ditmas avenue and Avenue D; thence northwardly along the said line midway between Ditmas avenue and Avenue D to the intersection with a line midway between East 92nd street and East 93rd street; thence southwardly along the said line midway between East 92nd street and East 93rd street to the intersection with the southeasterly right-of-way line of the Manhattan Beach Division of the Long Island Railroad; thence northwardly along the said right-of-way line to the intersection with a line distant 100 feet westerly from and parallel with the westerly line of Rockaway avenue, the said distance being measured at right angles to Rockaway avenue; thence northwardly along the said line parallel with Rockaway avenue to the intersection with the southeasterly right-of-way line of the Manhattan Beach Division of the Long Island Railroad; thence northwardly along the said right-of-way line to the intersection with a line distant 100 feet westerly from and parallel with the westerly line of Rockaway avenue, the said distance being measured at right angles to Rockaway avenue; thence northwardly along the said line parallel with Rockaway avenue to the intersection with a line midway between Ditmas avenue and Avenue D as these streets are laid out between Van Sinderen avenue and Snediker avenue; thence eastwardly along the said line midway between Ditmas avenue and Avenue D and along the prolongation of the said line to the intersection with a line midway between Hegeman avenue and Vienna avenue as these streets are laid out between Van Sinderen avenue and Snediker avenue and Hinsdale street; thence southwardly along the said line midway between Snediker avenue and Hinsdale street and along the prolongation of the said line to the intersection with a line distant 270 feet north-easterly from and parallel with the southeasterly line of East 108th street, the said distance being measured at right angles to East 108th street; thence southwardly along the said line parallel with East 108th street to the intersection with the prolongation of a line midway between Foster avenue and Farragut road as these streets are laid out between East 106th street and East 107th street; thence southwardly along the said line midway between Foster avenue and Farragut road and along the prolongation of the said line to the intersection with the easterly line of Ralph avenue; thence westwardly at right angles to Ralph avenue to the intersection with a line midway between East 95th street and Ralph avenue; thence northwardly along the said line midway between East 95th street and Ralph avenue to the intersection with a line distant 100 feet southerly from and parallel with the southerly line of Avenue D, the said distance being measured at right angles to Avenue D; thence westwardly along the said line parallel with Ave-

street; thence northwardly along the said line midway between East 91st street and East 92nd street to the intersection with a line midway between Ditmas avenue and Avenue D; thence northwardly along the said line midway between Ditmas avenue and Avenue D to the intersection with a line midway between East 92nd street and East 93rd street; thence southwardly along the said line midway between East 92nd street and East 93rd street to the intersection with the southeasterly right-of-way line of the Manhattan Beach Division of the Long Island Railroad; thence northwardly along the said right-of-way line to the intersection with a line midway between East 93rd street and East 94th street; thence northwardly along the said line midway between East 93rd street and East 94th street to the intersection with a line midway between Ditmas avenue and Avenue D; thence northwardly along the said line midway between Ditmas avenue and Avenue D to the intersection with a line midway between East 94th street and East 95th street; thence southwardly along the said line midway between East 94th street and East 95th street to the intersection with the southeasterly right-of-way line of the Manhattan Beach Division of the Long Island Railroad; thence northwardly along the said right-of-way line to the intersection with a line distant 100 feet westerly from and parallel with the westerly line of Rockaway avenue, the said distance being measured at right angles to Rockaway avenue; thence northwardly along the said line parallel with Rockaway avenue to the intersection with the southeasterly right-of-way line of the Manhattan Beach Division of the Long Island Railroad; thence northwardly along the said right-of-way line to the intersection with a line distant 100 feet westerly from and parallel with the westerly line of Rockaway avenue, the said distance being measured at right angles to Rockaway avenue; thence northwardly along the said line parallel with Rockaway avenue to the intersection with a line midway between Ditmas avenue and Avenue D as these streets are laid out between Van Sinderen avenue and Snediker avenue; thence eastwardly along the said line midway between Ditmas avenue and Avenue D and along the prolongation of the said line to the intersection with a line midway between Hegeman avenue and Vienna avenue as these streets are laid out between Van Sinderen avenue and Snediker avenue and Hinsdale street; thence southwardly along the said line midway between Snediker avenue and Hinsdale street and along the prolongation of the said line to the intersection with a line distant 270 feet north-easterly from and parallel with the southeasterly line of East 108th street, the said distance being measured at right angles to East 108th street; thence southwardly along the said line parallel with East 108th street to the intersection with the prolongation of a line midway between Foster avenue and Farragut road as these streets are laid out between East 106th street and East 107th street; thence southwardly along the said line midway between Foster avenue and Farragut road and along the prolongation of the said line to the intersection with the easterly line of Ralph avenue; thence westwardly at right angles to Ralph avenue to the intersection with a line midway between East 95th street and Ralph avenue; thence northwardly along the said line midway between East 95th street and Ralph avenue to the intersection with a line distant 100 feet southerly from and parallel with the southerly line of Avenue D, the said distance being measured at right angles to Avenue D; thence westwardly along the said line parallel with Ave-

nue D to the intersection with the northwesterly right-of-way line of the Manhattan Beach Division of the Long Island Railroad; thence southwesterly along the said right-of-way line to the intersection with a line midway between Avenue D and Foster avenue; thence westwardly along the said line midway between Avenue D and Foster avenue to the intersection with the westerly line of East 40th street; thence northwardly along the westerly line of East 40th street to the point of place of beginning.

Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on Friday, June 30, 1916, at 10:30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in The City Record and in the Corporation Newspapers for ten days, exclusive of Sundays and legal holidays, prior to Friday, June 30, 1916.

Dated June 17, 1916.

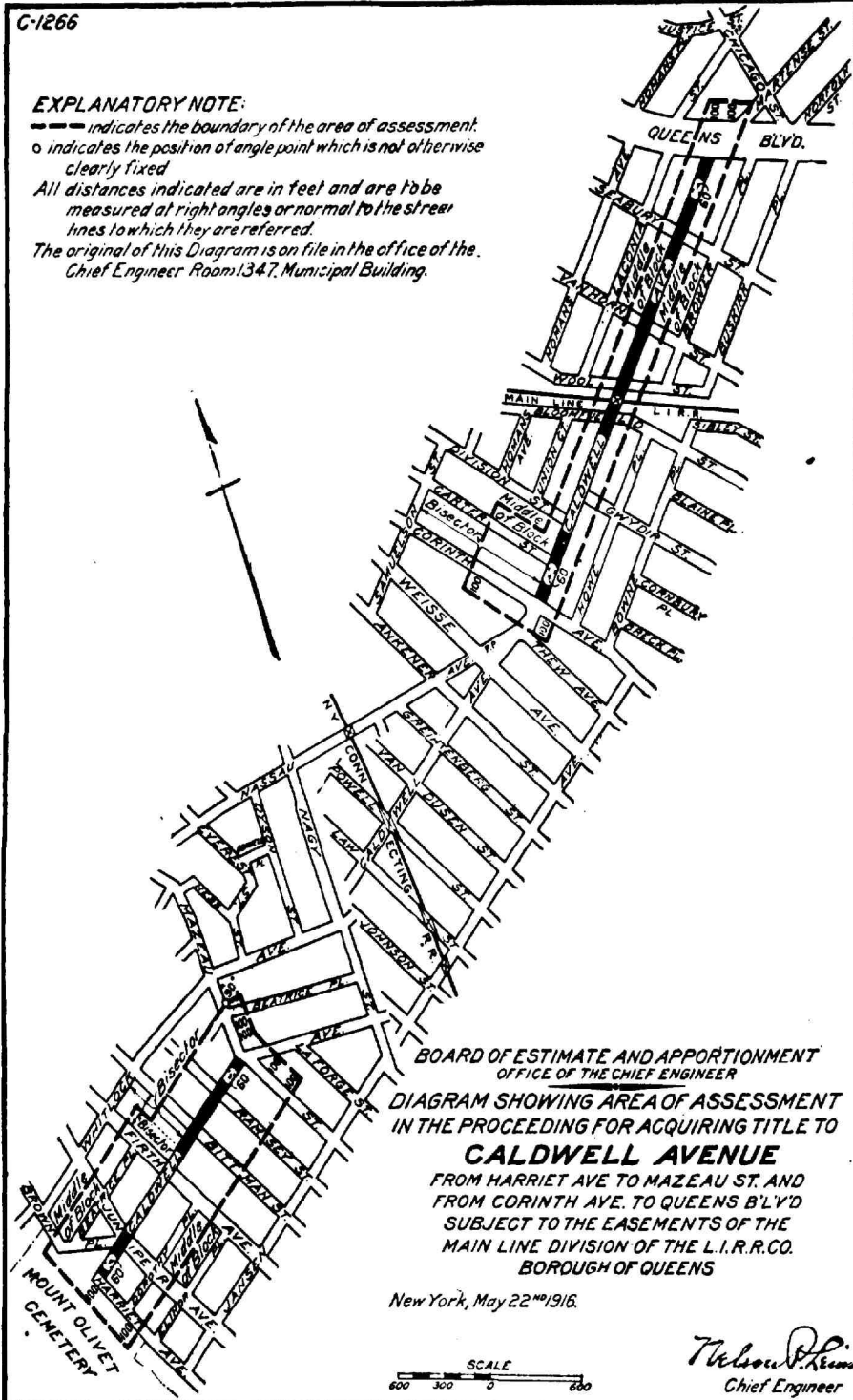
JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j17,28

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 9, 1916 (Cal. No. 154), the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the real property required for the opening and extending of Caldwell avenue from Harriet avenue to Mazeau street, and from Corinth avenue to Queens Boulevard, subject to the easements of the Main Line Division of the Long Island Railroad Company, in the Borough of Queens, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the real property required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings;

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that the proposed area of assessment for benefit in these proceedings is as shown on the following diagram:



Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on Friday, June 30, 1916, at 10:30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in The City Record for ten days, exclusive of Sundays and legal holidays, prior to Friday, June 30, 1916.

Dated June 17, 1916.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j17,28

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 9, 1916 (Cal. No. 152), the following resolutions were adopted:

Whereas, the Board of Estimate and Apportionment is considering the advisability of amending the proceeding authorized by said Board under resolutions adopted on April 10, 1908, February 23, 1911, and June 29, 1911, for acquiring title to Amboy street from Sutter avenue to East 98th street; Saratoga avenue from Pitkin avenue to Hunterly road, and from Riverdale avenue to East 98th street; Douglass street from Sutter avenue to East 98th street; Ames street from Sutter avenue to East 98th street; Hopkinson avenue from Blake avenue to East 98th street; Bristol street from a point about 125 feet south of Blake avenue to Dumont avenue; and from a point about 260 feet north of Newport street to East 98th street; and Chester street from Riverdale avenue to Stanley avenue, Borough of Brooklyn, so as to conform to a map or plan adopted by the Board of Estimate and Apportionment May 12, 1916, and approved by the Mayor May 17, 1916, in which is embodied a radical modification of the street system adjoining the Long Island Railroad in the section east of East 98th street, and which incidentally provides for discontinuing Stanley avenue from East 98th street to Avenue D; for extending Ditmas avenue from East 98th street to Rockaway avenue; for discontinuing Bristol street through the short section between East 98th street and Ditmas avenue; and for giving Bristol street, and Chester street a southerly terminus at Ditmas avenue; the amendment now proposed providing for the acquisition of title to the following streets as now laid out upon the map or plan of The City of New York: Amboy street from Sutter avenue to East 98th street; Saratoga avenue from Pitkin avenue to Hunterly road, and from Riverdale avenue to East 98th street; Douglass street from Sutter avenue to East 98th street; Herzl (Ames) street from Sutter avenue to East 98th street; Hopkinson avenue from Blake avenue to East 98th street; Bristol street from a point about 125 feet south of Blake avenue to Dumont avenue; and from a point about 260 feet north of Newport street to Ditmas avenue; Chester street from Riverdale avenue to Ditmas avenue.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions

of the Greater New York Charter, as amended, hereby gives notice that the following is the proposed modified district of assessment for benefit in this proposed amended proceeding:

Beginning at a point on the prolongation of a line midway between Grafton street and Barrett street, distant 100 feet northerly from the northerly line of Pitkin avenue, and running thence eastwardly and parallel with Pitkin avenue to the intersection with a line midway between Herzl street (Ames street) and Amboy street; thence southwardly along the said line midway between Herzl street (Ames street) and Amboy street to a point distant 100 feet northerly from the northerly line of Sutter avenue; thence eastwardly and parallel with Sutter avenue to the intersection with a line midway between Amboy street and Hopkinson avenue; thence southwardly along the said line midway between Amboy street and Hopkinson avenue to a point distant 100 feet northerly from the northerly line of Blake avenue; thence eastwardly and parallel with Blake avenue to the intersection with a line midway between Bristol street and Chester street; thence southwardly along the said line midway between Bristol street and Chester street to a point distant 100 feet northerly from the northerly line of Riverdale avenue; thence eastwardly and parallel with Riverdale avenue to the intersection with a line midway between Chester street and Rockaway avenue; thence southwardly along the said line midway between Chester street and Rockaway avenue and along the prolongation of the said line to the intersection with a line distant 100 feet southeasterly from and parallel with the southeasterly line of Ditmas avenue, the said distance being measured at right angles to Ditmas avenue; thence southwardly along the said line parallel with Ditmas avenue to a point distant 100 feet southwesterly from the southwesterly line of East 98th street; thence northwardly and parallel with East 98th street to the intersection with a line at right angles to East 98th street and passing through a point on its southwesterly side where it is intersected by the prolongation of a line midway between Grafton street and Barrett street; thence northwardly along the said line at right angles to East 98th street to the intersection with its southwesterly side; thence northwardly along the said line midway between Grafton street and Barrett street and along the prolongation of the said line to the intersection with a line midway between Livonia avenue and Riverdale avenue; thence eastwardly along the said line midway between Livonia avenue and Riverdale avenue to the intersection with a line midway between Saratoga avenue and Douglass street; thence northwardly along the said line midway between Saratoga avenue and Douglass street to the intersection with a line midway between Sutter avenue and Blake avenue; thence westwardly along the said line midway between Sutter avenue and Blake avenue to the intersection with a line midway between Grafton street and Barrett street; thence northwardly along the said line midway between Grafton street and Barrett street, and along the prolongation of the said line to the point of place of beginning.

Resolved, That this Board consider the proposed modified area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on Friday, June 30, 1916, at 10:30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in The City Record and in the Corporation Newspapers for ten days, exclusive of Sundays and legal holidays, prior to Friday, June 30, 1916.

Dated June 17, 1916.

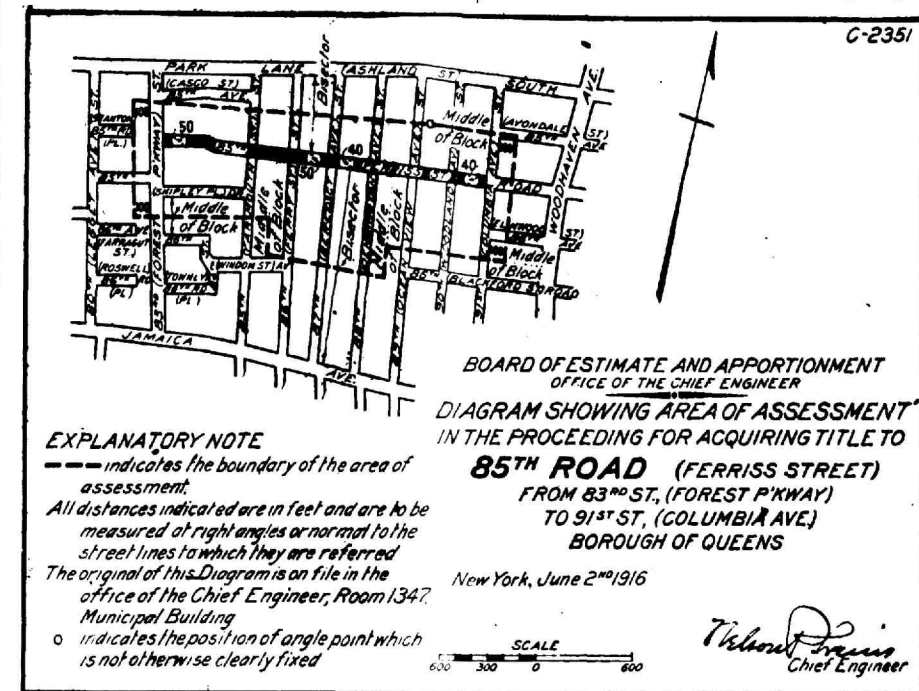
JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j17,28

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 9, 1916 (Cal. No. 153), the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the real property required for the opening and extending of 85th road (Ferriss street) from 83rd street (Forest Parkway) to 91st street (Columbia avenue), in the Borough of Queens, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the real property required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings;

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that the proposed area of assessment for benefit in these proceedings is as shown on the following diagram:



Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on Friday, June 30, 1916, at 10:30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in The City Record for ten days, exclusive of Sundays and legal holidays, prior to Friday, June 30, 1916.

Dated June 17, 1916.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j17,28

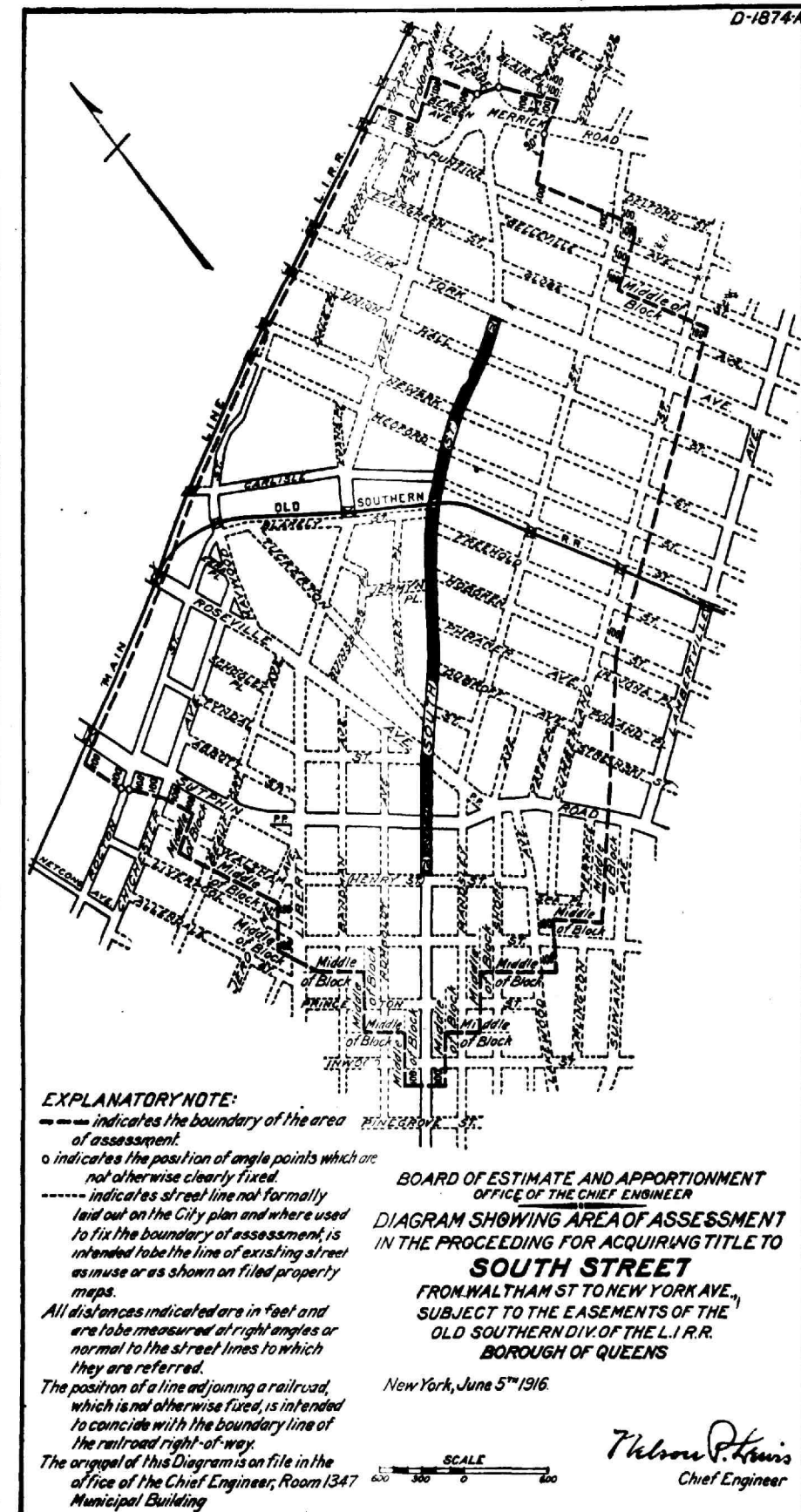
NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 9, 1916 (Cal. No. 155), the following resolutions were adopted:

Whereas, the Board of Estimate and Apportionment of The City of New York is considering

the advisability of instituting proceedings to acquire title to the real property required for the opening and extending of South street from New York avenue to Waltham (Henry) street, subject to the easements of the old Southern Railroad Division of the Long Island Railroad Company in the Borough of Queens, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the real property required for the foregoing improvement to fix and determine upon an area of assessment for benefit for said proceedings;

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that the proposed area of assessment for benefit in these proceedings is as shown on the following diagram:



Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on Friday, June 30, 1916, at 10:30 o'clock a. m., and that

at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in The City

Record for ten days, exclusive of Sundays and legal holidays, prior to Friday, June 30, 1916.
 Dated June 17, 1916.
 JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j17,28

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 9, 1916 (Cal. No. 136), the following resolutions were adopted:
 Whereas, The Board of Estimate and Apportionment of the City of New York is considering the advisability of instituting proceedings to acquire title to the real property required for the opening and extending of Homer Lee avenue from Canonbury road to Burtis street (Willow street), in the Borough of Queens, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the real property required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings;
 Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that the proposed area of assessment for benefit in these proceedings is as follows:

Bounded on the north by a line distant 100 feet northerly from and parallel with the northerly line of Canonbury road, as this street is shown on a map adopted by the Board of Estimate and Apportionment on March 9, 1911, where it adjoins Homer Lee avenue on the west, and by the prolongation of the said line, the said distance being measured at right angles to Canonbury road; on the east by a line always distant 100 feet easterly from and parallel with the easterly line of Homer Lee avenue and by the prolongation of the said line, the said distance being measured at right angles to Homer Lee avenue; on the south by the northerly right of way line of the Main Line Division of the Long Island Railroad; and on the west by a line always distant 100 feet westerly from and parallel with the westerly line of Homer Lee avenue and by the prolongation of the said line, the said distance being measured at right angles to Homer Lee avenue.

Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on Friday, June 30, 1916, at 10:30 o'clock a. m. and that the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in The City Record for ten days, exclusive of Sundays and legal holidays, prior to Friday, June 30, 1916.
 Dated June 17, 1916.
 JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j17,28

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 9, 1916, the Board continued until June 30, 1916, the hearing in the matter of changing the map or plan of The City of New York by changing the lines of Fulton street between the Flatbush Avenue Extension and Ashland place, Borough of Brooklyn, which proposed change is more particularly shown upon a map or plan bearing the signature of the Commissioner of Public Works of the Borough and dated February 29, 1916.

The hearing will be held in the City Hall, Borough of Manhattan, City of New York, on Friday, June 30, 1916, at 10:30 o'clock a. m.
 Dated June 17, 1916.
 JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j17,28

Notice of Public Hearing.

FRANCHISE MATTERS.

PUBLIC NOTICE IS HEREBY GIVEN THAT at the meeting of the Board of Estimate and Apportionment held this day the following resolutions were adopted:

Whereas, The City Island Motor Bus Co., Inc., has by a petition dated April 28, 1916, applied to this Board for the right and privilege to maintain and operate a stage or omnibus route for public use upon and along City Island Avenue, over and across the City Island Bridge and upon and along City Island Road, Pelham Road, Bronx and Pelham Parkway and Boston Road to 177th Street, in the Borough of The Bronx; and

Whereas, Sections 72, 73 and 74 of the Greater New York Charter, as amended by Chapters 629 and 630 of the Laws of 1905, and Chapter 467 of the Laws of 1914, provide for the manner and procedure of making such grants; and

Whereas, In pursuance of such laws, this Board adopted a resolution on May 5, 1916, fixing the date for public hearing thereon as June 2, 1916, at which citizens were entitled to appear and be heard, and publication was had for at least two (2) days in the "Globe" and "Tribune," newspapers designated by the Mayor, and in the "City Record" for ten (10) days immediately prior to the date of hearing, and the public hearing was duly held on such day; and

Whereas, This Board has made inquiry as to the money value of the franchise or right applied for and proposed to be granted to the City Island Motor Bus Co., Inc., and the adequacy of the compensation to be paid therefor; now, therefore, it is

Resolved, That the following form of the resolution for the grant of the franchise or right applied for by the City Island Motor Bus Co., Inc., containing the form of proposed contract for the grant of such franchise or right, be hereby introduced and entered in the minutes of this Board, as follows, to wit:

Resolved, That the Board of Estimate and Apportionment hereby grants to the City Island Motor Bus Co., Inc., the franchise or right fully set out and described in the following form of proposed contract for the grant thereof, embodying all of the terms and conditions, including the provisions as to rates and charges upon and subject to the terms and conditions in said proposed form of contract contained, and that the Mayor of the City of New York be and he hereby is authorized to execute and deliver such contract in the name and on behalf of The City of New York, as follows, to wit:

PROPOSED FORM OF CONTRACT.
 This contract, made and executed in duplicate this day of June, 1916, by and between THE CITY OF NEW YORK (hereinafter called the City), party of the first part, by the Mayor of said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the CITY ISLAND MOTOR BUS CO., INC. (hereinafter called the Company), party of the second part, WITNESSETH:

In consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree as follows:

Section 1. The City hereby grants to the Company, subject to the conditions and provisions hereinafter set forth, the right and privilege to maintain and operate a stage or omnibus route for public use in the Borough of The Bronx, in the City of New York, to wit: Beginning in City Island Avenue at the south-

erly end thereof on City Island; thence along City Island Avenue to the bridge connecting City Island with the Pelham Bay Park; thence upon and along said bridge and the approaches thereto to City Island Road in Pelham Bay Park; thence along said City Island Road to Pelham Bridge Road; thence along Pelham Bridge Road and Eastern Boulevard to Fordham Road or to the prolongation of the Bronx and Pelham Parkway in Pelham Bay Park; thence along Fordham Road or the prolongation of the Bronx and Pelham Parkway to Boston Road; thence along Boston Road to 177th Street.

And to cross such other streets and avenues, named and unnamed, as may be encountered in said route.

Section 2. The grant of this privilege is subject to the following conditions:
 First—The said right to maintain and operate said stage or omnibus route shall be held and enjoyed by the Company from the date upon which this contract is signed by the Mayor until September 30, 1921, with the privilege of renewal of said contract for the further period of five (5) years upon a fair revaluation of such right and privilege.

If the Company shall determine to exercise its privilege of renewal, it shall make application to the Board, at any time not earlier than two (2) years and not later than one (1) year before the expiration of the original term of this contract. The time within which such application for renewal must be made is of the essence of this contract, and a failure of the Company to present its application within the time fixed shall be considered as an election on the part of the Company not to take advantage of the renewal privilege and as a relinquishment of its right to such renewal, in which event the franchise shall terminate on the last day of the original term of this contract. The determination of the revaluation shall be sufficient if agreed to in writing by the Company and the Board, but in no case shall the annual rate of compensation to the City be fixed at a less amount than the sum required to be paid during the last year prior to the termination of the original term of this contract unless the Board shall during the original term of this contract, permit another company or an individual to operate stages or omnibuses over all or a portion of the route herein authorized.

If the Company and the Board shall not reach such agreement on or before the day nine (9) months before the expiration of the original term of this contract, then the parties hereby agree that the annual rate for the renewal term shall be determined by three disinterested persons selected in the following manner:

One disinterested person shall be chosen by the Board; one disinterested person shall be chosen by the Company; these two shall choose a third disinterested person, and the three so chosen shall act as appraisers and shall make the revaluation aforesaid. Such appraisers shall be chosen at least six (6) months prior to the expiration of the original term of this contract, and their report shall be filed with the Board within three (3) months after they are chosen. They shall act as appraisers and not as arbitrators. They may base their judgment upon their own experience and upon such information as they may obtain by inquiries and investigations without the presence of either party. They shall have the right to examine any of the books of the Company and its officers under oath. The valuations so ascertained, fixed and determined shall be conclusive upon both parties, but no annual sum shall, in any event, be less than the sum required to be paid for the last year of the original term of this contract unless the Board shall during the original term of this contract, permit another company or an individual to operate stages or omnibuses over all or a portion of the route herein authorized. If in any case the annual rate shall not be fixed prior to the termination of the original term of this contract, then the Company shall pay the annual rate determined until the new rate shall be determined, and shall then make up to the City the amount of any excess of the annual rate determined over the previous annual rate. The entire expense of such appraisal shall be borne jointly by the City and the Company, each paying one-half thereof.

Second—The Company shall pay to the City for the original term of the privilege hereby granted the following sums of money:

(a) The sum of five hundred dollars (\$500) in cash within thirty (30) days after the date on which this contract is signed by the Mayor.

(b) During the first term of two (2) years an annual sum which shall be equal to five (5) per cent of its gross annual receipts, but which sum shall not be less than one hundred dollars (\$100).
 During the succeeding term of two (2) years, an annual sum which shall be equal to five (5) per cent of its gross annual receipts, but which sum shall not be less than one hundred and fifty dollars (\$150).

During the remaining term, expiring September 30, 1921, an annual sum which shall be equal to five (5) per cent of its gross annual receipts, but which sum shall not be less than two hundred dollars (\$200).

The gross annual receipts mentioned above shall be the gross annual receipts of the Company from whatever source, derived either directly or indirectly, in any manner, from or in connection with the operation hereby authorized.

The annual charges shall commence on the date upon which this contract is signed by the Mayor.

The annual charges, as above, shall be paid into the Treasury of the City on November 1 of each year and shall be for the amount due to September 30 next preceding. Provided that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and September 30 following shall bear to the whole of one year.

Any and all payments to be made by the terms of this contract shall be made by the Company, whether during the original or renewal term thereof, shall not be considered in any manner in the nature of a tax, but such payments shall be made in addition to any and all taxes of whatsoever kind or description, now or hereafter required to be paid by any ordinance of the City, or resolution of the Board, or any law of the State of New York.

Third—The annual charges or payments shall continue throughout the whole term of this contract, whether original or renewal, notwithstanding any clause in any statute or in the charter of any other company providing for payment for similar rights or franchises at a different rate.

Fourth—Nothing in this contract shall be deemed to affect in any way the right of the City to grant to any individual or other corporation a similar right or privilege upon the same or other terms and conditions, over the same streets and avenues, hereinafter described.

Fifth—At the termination or forfeiture of this grant, the City at the election of the Board, shall have the right to purchase all or any part of the property and plant of the Company used for the purpose of the operation of the stage or omnibus route thereby authorized, at a sum equal to a fair valuation of such property and plant, exclusive of any value which such property and plant may have by reason of this contract. Such property and plant are to be valued as if the Company had

not exercised the right and privilege granted by this franchise for the said period of this contract, and no allowance shall be made to the Company in such valuation by reason of such exercise.

If the Company and the City cannot agree upon such valuation of such property and plant, then such valuation thereof shall be determined and fixed by three arbitrators selected in the following manner:

One disinterested person shall be chosen by the Company; one disinterested person shall be chosen by the Board, and the two so chosen shall choose a third disinterested person. The decision under oath of any two of such persons, who shall be so selected, shall be final and conclusive.

If either the Company or the City fails to appoint an arbitrator as herein provided, or should the first two arbitrators fail to agree on the selection of the third arbitrator within thirty (30) days after the first two arbitrators shall be chosen, or if no two arbitrators so selected shall agree upon the valuation of such property within sixty (60) days after the arbitrators shall be so selected, then such valuation may be fixed by a commissioner appointed by the Supreme Court on the application of either party.

Sixth—The rights and privileges hereby granted shall not be assigned, either in whole or in part, or leased or sublet in any manner, nor shall title thereto, or right, interest or property therein, pass to or vest in any other person or corporation whatsoever, either by the act of the Company, or by operation of law, whether under the provisions of the statutes relating to the consolidation or merger of corporations or otherwise, without the consent of the City, acting by the Board, evidenced by an instrument under seal, anything herein contained to the contrary thereof in any way notwithstanding, and the granting, giving or waiving of any one or more of such consents shall not render unnecessary any subsequent consent or consents; and no assignment, lease or sublease of the rights or privileges hereby granted, or of any part thereof, or the route mentioned herein, or of any part thereof, shall be valid or effectual for any purpose unless the said assignment, lease or sublease shall contain a covenant on the part of the assignee or lessee that the same is subject to all the conditions of this contract; and that the assignee or lessee assumes and will be bound by all of said conditions, and especially said conditions as to payments, anything in any statute or in the charter of such assignee or lessee to the contrary notwithstanding, and that the said assignee or lessee waives any more favorable conditions created by such statute or its charter, and that it will not claim by reason thereof or otherwise exemption from liability to perform each and all of the conditions of this contract.

Seventh—The Company shall commence operation within three (3) months from the date on which this contract is signed by the Mayor; provided that such period may be extended by the Board for a period or periods not exceeding in the aggregate six (6) months; and provided, further, that when the commencement of said operation shall be prevented by legal proceedings in any court or by works of public improvement, or from other causes not within the control of the Company, the time for the commencement of such operation may be extended for the period of such prevention, but no delay shall be allowed for unless the court proceedings shall be diligently prosecuted by the Company, and provided further that in no case shall such delay be deemed to begin until the Company shall have given written notice to the Board of any such court proceedings or other occasion of delay, and deliver to the Board copies of any injunction or other orders, and the papers upon which the same shall have been granted, and unless upon the request of the Board the Company shall, in writing, consent that the Board, either in its own name as a party, or in the name of the City as a party, may intervene in any such proceeding.

Eighth—Nothing herein contained shall be construed as permitting the grantee to erect any structures whatever upon City streets, and the Company shall not construct or maintain any fixture or structure in the street unless especially authorized by resolution of the Board.

Ninth—All vehicles which may be operated pursuant to this contract shall comply with the following general requirements:

1. They shall be propelled by power generated or combined within the vehicle itself, but no power shall be used which will in its generation or use produce smoke or noxious odors sufficient in the opinion of the Board or its authorized representatives to constitute a nuisance.

2. The maximum weight, including fuel, water, oil or any other material or any accessories used in operation, shall not exceed six thousand (6,000) pounds.

3. The maximum width shall not exceed seven feet two inches (7'2").

4. The maximum height shall not exceed eleven feet eight inches (11'8").

5. The maximum length shall not exceed twenty-two feet (22').

6. They shall be designed and constructed in a manner which will permit ease and freedom of movement under all conditions.

7. The distribution of weight on axles, length of wheel base and other features of design shall be such as to avoid skidding as far as possible and shall be such as to permit easy steering and control.

8. They shall be fitted with brakes capable of stopping and holding the same under all conditions.

9. They shall be so constructed that the oil or grease cannot drop on the roadway.

10. All parts shall be so constructed that no undue noise or vibration shall result from operation.

11. All wheels shall be equipped with either pneumatic tires or tires which shall be approved by the Board or its authorized representatives but in no event shall solid tires be used.

Tenth—No stage or omnibus shall be operated pursuant to this contract unless they shall be plainly thereon in letters sufficiently large to be clearly visible for a distance of seventy-five feet:

(a) The name of the Company owning and operating such vehicle.

(b) The number of the vehicle which is assigned to it upon receiving the approval of the Board or its authorized representatives.

(c) The number of adults for which the vehicle has seating space.

Eleventh—No advertising signs shall appear on the outside of any stage or omnibus.

Twelfth—The destination of each stage or omnibus shall be plainly indicated on the front of the vehicle, and shall be illuminated at night.

Thirteenth—The number of passengers to be carried in any vehicle shall at no time exceed the seating capacity of the vehicle.

Fourteenth—The inclosed portion of all stages or omnibuses which are operated on said route shall be heated during the cold weather, in conformity with such laws and ordinances as are now in force affecting surface railway cars or such laws and ordinances affecting stages or omnibuses as may hereafter, during the term of this contract, be in force, as may be required by resolution of the Board.

Fifteenth—The inclosed portion of all stages or omnibuses operated on said route shall be well lighted as may be required by resolution of the Board.

Sixteenth—Before any stage or omnibus is put in service it must be submitted to the Board or its authorized representatives and receive the approval thereof. If any vehicle which may be so submitted for approval shall not conform with

the requirements herein or should any such vehicle for any reason be considered by the Board or its authorized representatives unfit for public use, then the Board or its authorized representatives may refuse such approval, in which case the Company shall not operate such vehicle. If after a vehicle shall have been so approved, defects develop which in the opinion of the Board or its authorized representatives render it unsuitable for public service, then the Board or its authorized representatives may require the withdrawal of such vehicle from service.

Upon being approved by the Board or its authorized representatives, each vehicle shall be given a number which shall not be changed so long as such vehicle shall be operated by the Company, unless and until the Company shall notify the Board that it proposes to change the number of the vehicle and of the new number which it is proposed to use.

Seventeenth—All vehicles operated pursuant to this grant shall be maintained in good and safe repair and in a manner which will in all ways render the vehicle fit for public service. The Company shall permit the Board or its authorized representatives to inspect at all reasonable times any or all the vehicles used by the Company. If upon inspection any vehicle shall appear in the judgment of said Board or its authorized representatives to be unfit for public service, then the Company shall, upon notice, immediately withdraw such vehicle from service, and shall remedy the defect and notify the Board or its authorized representatives that the defect has been remedied before such vehicle shall be restored to service.

Eighteenth—All laws and ordinances affecting the operation of stages or omnibuses now in force or which may be in force during the term of this contract shall be complied with by the Company. The Company shall also comply with and enforce the carrying out of any orders or regulations which may be issued by the Board designed for the protection of persons, of property or of the comfort and health of the public.

Nineteenth—The rate of fare for any passenger upon the stage or omnibus route herein authorized shall not exceed twenty-five cents (25c.), and the Company shall not charge any passenger more than twenty-five cents (25c.) for one continuous ride from any point on the stage or omnibus route hereby authorized to any other point on the said route.

Twentieth—Stages or omnibuses shall be run on said route each day at intervals of not more than one hour between the hours of 7 o'clock A. M. and 7 o'clock P. M. and as much oftener as reasonable convenience of the public may require, and shall be directed by resolution of the Board, and shall be operated on such route and at such intervals between the hours of 7 o'clock P. M. and 7 o'clock A. M. as reasonable convenience of the public may require and as may be directed by resolutions of the Board; provided, however, that during the months of December, January, February and March the Company is hereby required to operate stages or omnibuses on said route only between the hours of 8 o'clock and 10 o'clock A. M. and between 5 o'clock and 7 o'clock P. M., unless the Board shall, by resolution, direct the Company to operate during other periods of the day.

Twenty-first—The Company shall, at its own expense, do anything and everything within its power to keep its vehicles in operation on regular schedules during the existence of snow and ice in the streets and avenues upon which the Company is hereby authorized to operate, and if it shall be necessary to remove such snow and ice to the side of the roadway in order to so operate, then such removal shall be done under the supervision and to the satisfaction of the Commissioner of Street Cleaning or the Park Commissioner, but in no event shall snow or ice so removed be allowed by the Company to obstruct the crosswalks of any street.

Twenty-second—It is understood that the Company shall operate, pursuant to this contract, only the route herein authorized, but should vehicular traffic be diverted from any portion of any of the streets or avenues upon which the Company is herein authorized to operate because of fires, parades or because of any other event which will close the street to vehicular traffic temporarily, then the Company may use such other streets or avenues as are necessary to continue the operation. If, however, for any reason any of the streets and avenues in which the operation is hereby authorized shall be closed to vehicular traffic for a longer period than twenty-four hours, then the Company shall communicate with the Board or its authorized representatives and obtain authority for the operation upon other streets and avenues for the period during which said street or avenue may be closed.

Twenty-third—Should it be deemed advisable by the Board at any time during the term of this contract to require the Company to operate extensions to the route herein authorized, additional routes or routes in substitution for the route herein authorized or any portion thereof, and the Board shall so order, then the Company shall, upon notice by the Board, apply for a franchise or right to operate such extension, additional or substituted routes and accept a franchise therefor upon terms and conditions similar to those contained herein, and for a term expiring not later than the date of the expiration of this contract, provided that the Board shall not hereunder require the Company to extend its route for a distance greater than one mile during any calendar year.

Twenty-fourth—The Company shall submit to the Board a report not later than November 1 of each year for the year ending September 30 next preceding, and at any other time, upon request of the Board, which shall state:

1. The amount of stock issued, for cash, for property.
2. The amount paid in as by last report.
3. The total amount of capital stock paid in.
4. The funded debt by last report.
5. The total amount of funded debt.
6. The floating debt as by last report.
7. The total amount of floating debt.
8. The total amount of funded and floating debt.
9. The average rate per annum of interest on funded debt.
10. Statement of dividends paid during the year.
11. The total amount expended for same.
12. The names of the directors elected at the last meeting of the corporation held for such purpose.
13. Location, value and amount paid for real estate owned by the Company as by last report.
14. Location, value and amount paid for real estate now owned by the Company.
15. Number of passengers carried during the year.
16. Total receipts of Company for each class of business.
17. Amounts paid by the Company for damage to persons or property on account of construction and operation.
18. Total expenses for operation, including salaries, and such other information in regard to the business of the Company as may be required by the Board.

Twenty-fifth—The Company shall at all times keep accurate books of account of its gross receipts and shall, on or before November 1 of each year, make a verified report to the Comptroller of the City of the business done by the Company, for the year ending September 30 next preceding, in such form as he may prescribe.

Such report shall contain a statement of such gross receipts, the total miles in operation within the limits of the City and the miles operated under this contract, and such other information as the Comptroller may require. The Comptroller shall have access to all books and records of the Company for the purpose of ascertaining the correctness of its report, and may examine its officers and employees under oath.

Twenty-sixth—The Company shall keep accurate books of the performance of different types of vehicles and the different services rendered and the cost thereof, and shall at any time furnish the Board, or its authorized representatives, such information with respect thereto as shall be requested.

Twenty-seventh—In case of any violation or breach of failure to comply with any of the provisions herein contained or with any orders of the Board or its authorized representatives, acting under the powers herein reserved, the right or privilege herein granted may be forfeited by resolution of said Board, without proceedings at law or in equity. Provided, however, that such action by the Board shall not be taken until the Board shall give notice to the Company to appear before it on a certain day not less than ten (10) days after the date of such notice, to show cause why such resolution declaring the contract forfeited should not be adopted. In case the Company fails to appear, action may be taken by the Board forthwith.

Any false entry in the books of the Company or false statement in the reports to the Comptroller as to a material fact, knowingly made by the Company, shall constitute such a violation or breach of failure to comply with the provisions herein contained as to warrant the forfeiture of the franchise.

Nothing herein contained shall affect in any way the right of the Company to apply to a court of competent jurisdiction for review of any action of the Board forfeiting the franchise or consent herein granted.

Twenty-eighth—If the Company shall fail to give efficient public service at rates not exceeding those herein fixed, or fail to maintain its equipment as herein provided in good condition throughout the whole term of this contract, the Board may give notice to the Company, specifying any default on the part of the Company, and requiring the Company to remedy the same within a reasonable time; and upon failure of the Company to remedy such default within a reasonable time, the Company shall, for each day thereafter during which the default or defect remains, pay to the City the sum of fifty dollars (\$50) as fixed or liquidated damages, or at the option of the Board, this contract may be forfeited upon ten (10) days' notice to the Company.

Twenty-ninth—The Company shall assume all liability for damages to persons or property occasioned by reason of the operation or maintenance of the stage or omnibus route hereby authorized, and it is a condition of this contract that the City shall assume no liability whatsoever to either persons or property on account of the same, and the Company shall repay the City any damage which the City shall be compelled to pay by reason of any acts or default of the Company.

Thirtieth—This grant is upon the express condition that the Company, within thirty (30) days after the signing of this contract by the Mayor, and before anything is done in exercise of the rights conferred hereby, shall deposit with the Comptroller of the City the sum of five hundred dollars (\$500), either in money or securities, to be approved by him, which fund shall be security for the performance by the Company of all of the terms and conditions of this contract and compliance with all orders of the Board acting under the powers herein reserved, especially those which relate to the payment of the annual charges for the privilege hereby granted, the rendering of efficient public service at the rates herein fixed, and the maintenance of vehicles in good condition throughout the whole term of this contract; and in case of default in the performance by the Company of such terms and conditions or compliance with such orders or either or any of them, the City shall have the right to cause the work to be done and the materials to be furnished for the performance thereof after due notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings; or after default in the payment of the annual charges, shall collect the same, with interest, from the said fund after ten (10) days' notice to the Company; or in case of failure to observe the said terms and conditions of this contract and orders of the Board acting hereunder, relating to the headway, repair, maintenance or withdrawal from service of vehicles, the Company shall pay to the City as liquidated damages the sum of fifty dollars (\$50) per day for each day of violation, and the further sum of ten dollars (\$10) per day for each vehicle that shall not be properly heated or lighted in case of the violation of the provisions relating to those matters, all of which sums may be deducted from said fund.

The procedure for the imposition and collection of the sums as fixed or liquidated damages in this contract shall be as follows:

The Board, on complaint made, shall give notice to the Company, directing its President or other officer to appear before the Board on a certain day not less than ten (10) days after the date of such notice, to show cause why the Company should not pay such liquidated damages in accordance with the foregoing provisions. If the Company fails to make an appearance, or after a hearing, appears in the judgment of the Board to be in fault, said Board shall forthwith require the payment of said sums herein provided for, or where the damages are not liquidated by the terms of this contract, such amount as appears to the Board to be just, and without legal procedure direct the Comptroller to withdraw such amount from the security fund deposited with him. In case of any default made upon the security fund, the Company shall, upon ten (10) days' notice, pay to the City a sum sufficient to restore said security fund to the original amount of five hundred dollars (\$500), and in default thereof, this contract may be cancelled and annulled at the option of the Board, acting in behalf of the City. No action or proceeding or right under the provisions of this contract shall affect any other legal rights, remedies or causes of action belonging to the City. These provisions for the recovery of such damages are in addition to the right to forfeit the franchise conferred by Section 2, Subdivision Twenty-seventh of this contract.

Thirty-first—The words "notice" or "direction," wherever used in this contract, shall be deemed to mean a written notice or direction. Every such notice or direction to be served upon the Company shall be delivered at such office in the City as shall have been designated by the Company, or if no such office shall have been designated, or if such designation shall have for any reason become inoperative, shall be mailed in the City, postage prepaid, addressed to the Company at the City. Delivery or mailing of such notice or direction as and when above provided shall be equivalent to direct personal notice or direction, and shall be deemed to have been given at the time of delivery or mailing.

Thirty-second—The words "streets or avenues" and "streets and avenues," wherever used in this contract, shall be deemed to mean streets, avenues, highways, parkways, driveways, concourses, boulevards, bridges, viaducts, tunnels, public places or any other property to which the City has title encountered in the route hereinabove described and upon or in which authority is hereby given to the Company to operate stages or omnibuses.

Thirty-third—If at any time the powers of the

Board or any other of the authorities herein mentioned or intended to be mentioned, shall be transferred by law to any other board, authority, officer or officers, then and in such case such other board, authority, officer or officers shall have all the powers, rights and duties herein reserved to or reserved for the Board or other authorities, officer or officers.

Section 3. Nothing in this contract shall be construed as in any way limiting the present or future jurisdiction of the Public Service Commission under the laws of the State of New York.

Section 4. The Company promises, covenants and agrees on its part and behalf during the entire term of this contract, whether original or renewal, to conform to and abide by and perform all the terms, conditions and requirements in this contract fixed and contained.

IN WITNESS WHEREOF, the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed; and the party of the second part, by its officers, thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed the day and year first above written.

THE CITY OF NEW YORK, Mayor.

[CORPORATE SEAL] City Clerk.

Attest: CITY ISLAND MOTOR BUS CO., INC., By President.

[SEAL] Secretary.

(Here add acknowledgments.) Resolved, That the results of the inquiry made by this Board as to the money value of the franchise or right proposed to be granted and the adequacy of the compensation proposed to be paid therefor, and of the terms and conditions, including the provisions as to rates and charges, are as hereinbefore specified and fully set forth in and by the foregoing form of proposed contract for the grant of such franchise or right.

Resolved, That these preambles and resolutions, including the said resolution for the grant of a franchise or right applied for by the City Island Motor Bus Co., Inc., and the said form of proposed contract for the grant of such franchise or right, containing said results of such inquiry, after the same shall be entered in the minutes of this Board, shall be published in full for at least fifteen days immediately prior to Friday, June 30, 1916, in the "City Record," together with the following notice to wit:

Notice is hereby given, That the Board of Estimate and Apportionment before authorizing any contract for the grant of the franchise or right applied for by the City Island Motor Bus Co., Inc., and fully set forth and described in the foregoing form of proposed contract for the grant of such franchise or right, and before adopting any resolutions authorizing such contract, will, at a meeting of said Board to be held in Room 16, City Hall, Borough of Manhattan, City of New York, on Friday, June 30, 1916, at 10:30 o'clock a. m., hold a public hearing thereon at which citizens shall be entitled to appear and be heard.

Resolved, That a notice of such hearing, stating that copies of the proposed contract and resolution of consent thereto may be obtained by all those interested therein at the Bureau of Franchises, Room 1307, Municipal Building, Centre and Chambers Streets, Borough of Manhattan, shall be published at least twice, at the expense of the proposed grantee, during the ten (10) days immediately prior to Friday, June 30, 1916, in the "Globe" and Tribune, the two daily newspapers in which the petition and notice of hearing thereon have been published.

Dated, New York, June 2, 1916. JAMES D. MCGANN, Assistant Secretary. Telephone, 4560 WORTH. 113.30

DEPARTMENT OF STREET CLEANING.

Auction Sale.

THE DEPARTMENT OF STREET CLEANING, Borough of Manhattan, The City of New York, will sell at public auction to the highest bidder, on

FRIDAY, JUNE 30, 1916, commencing at 11 a. m., at the W. 56th st. and 12th ave. Yard, Manhattan, by William Jacobus, auctioneer, the material described below:

Situated at W. 56th st. and 12th ave., Manhattan, and at Metropolitan and Bedford aves., Brooklyn.

Lot 1—75 tons of heavy wrought, cast and steel scrap, free of galvanizing.

Lot 2—75 tons of iron and steel scrap, consisting of wagon bodies, pipes, plates, sheets and other light weight materials of similar nature, free of galvanizing.

Lot 3—One lot of galvanized iron of every description; shovels and scrapers with wood attached; wire, tin, also iron or steel, light weight stovetop and materials of similar nature.

Situated at 32 Tompkins st., Stable A, 17th st. and Avenue C, and 56th st., 12th ave.

Lot 4—10 tons of canvas with blankets attached.

Lot 5—3 tons of canvas scrap.

Lot 6—3 tons of bags, carpet, feed-bags, rags, etc.

Situated at 56th st. and 12th ave.

Lot 7—1,000 cement bags.

Lot 8—1,000 canvas waste bags with iron attached.

Situated at Stable A, 17th st. and Avenue C.

Lot 9—90 oil barrels with two heads.

Lot 10—10 oil barrels with one head.

Situated at 140 W. 20th st., Manhattan.

Lot 11—300 lbs. horse hair (manes and tails only).

Lot 12—500 lbs. heavy red and yellow brass, free of foreign materials, rubber inner tubes included.

Lot 13—1,000 lbs. Brass of every description with foreign material attached; also light weight yellow brass.

Situated at 56th st. and 12th ave.

Lot 14—5,000 lbs. of rubber and cotton covered hose.

Lot 15—2,000 lbs. automobile shoes.

Lot 16—1,500 lbs. of solid black rubber tires with and without metallic insertions.

Lot 17—300 lbs. of manila rope.

Lot 18—One lot of harness.

Situated at Stable A, 17th st. and Avenue C.

Lot 19—1 E. M. F. Auto (Touring Car).

Lot 20—1 Lozier Auto (Touring Car).

Lot 21—1 Knox-Martin Tractor, 10 tons.

TERMS OF SALE.

These lots will be sold separately to the highest bidder on each lot number, per gross ton (2,240 pounds), or per pound, as the weight may be given. No bid will be considered or accepted for less than the entire quantities in each lot.

The quantities indicated are approximate only, and the net payments will be based on actual weights determined by the City's representative on the City's scales on the premises, or at the expense of the purchaser of the nearest public scale. No scrap can be removed except in the presence of the City's designated representative.

Successful bidders must make payment in cash or bankable funds at the time and place of the sale as follows: On bids of \$200 or less, in full; on bids in excess of \$200, deposit of 50% will be required at time of sale, and full payment on such lots, based upon the estimated weights, must be made by the purchaser before any removal of

the material is begun. Adjustments are to be made according to actual weight at time of weighing and delivery of the material.

Purchasers must apply 48 hours in advance for permission to remove material.

Purchasers must remove all materials within 30 days after the sale; otherwise purchaser will forfeit money paid at the time of the sale, and the material will be thereafter resold for the benefit of the City.

All removals of material must be made under the supervision of an employee of the department, designated by the Commissioner of the Department of Street Cleaning. Removal must go on continuously when once started. Purchasers will not be allowed to select material for removal at will.

The right is reserved until 12 noon, Monday, July 3, 1916, to reject all bids on any or all lots.

J. T. FETTERSTON, Commissioner of the Department of Street Cleaning. j20.30

DEPARTMENT OF CORRECTION.

Proposals.

SEALED BIDS OR PROPOSALS WILL BE received by the Commissioner of Correction, Municipal Building, Manhattan, until 11 a. m. on

WEDNESDAY, JULY 5, 1916.

FURNISHING AND DELIVERING BREAD TO NEW HAMPTON FARMS, NEW HAMPTON, ORANGE COUNTY, NEW YORK.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before Dec. 31, 1916.

The amount of security required is thirty (30) per cent. of the amount of the bid or estimate. The bidder will state the price for each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, 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 award made to the lowest bidder on this item.

Bids must be submitted in duplicate, each in a separate envelope. No bid will be accepted unless this provision is complied with.

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

Blank forms and further information may be obtained at the office of the Department of Correction, Municipal Building, Manhattan.

BURDETTE G. LEWIS, Commissioner. Dated, June 22, 1916. j23.jy5

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

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at Municipal Building, Manhattan, until 11 a. m. on

TUESDAY, JUNE 27, 1916.

FURNISHING AND DELIVERING LEATHER FOR MANUFACTURING INDUSTRY.

The time for the delivery of the articles, materials and supplies and the performance of the contract is on or before Aug. 31, 1916.

The amount of security required is thirty (30) per cent. of the amount of the bid or estimate. The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per foot. The extensions must be made and footed up, as the bids will be read from the total and award made to the lowest bidder on each item.

Bids must be submitted in duplicate, each in a separate envelope. No bid will be accepted unless this provision is complied with.

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

Blank forms and further information may be obtained at the office of the Department of Correction, Municipal Building, Manhattan.

j16.27 BURDETTE G. LEWIS, Commissioner. See General Instructions to Bidders on last page, last column, of the "City Record."

BOROUGH OF BROOKLYN.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the President of Borough of Brooklyn at Room 2, Borough Hall, Brooklyn, until 11 a. m. on

WEDNESDAY, JULY 5, 1916.

Borough of Brooklyn.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWERS IN PACIFIC STREET FROM BROAD AVENUE TO TROY AVENUE; IN TROY AVENUE FROM PACIFIC STREET TO A POINT ABOUT 55 FEET SOUTH OF FULTON STREET, AND IN ROCHESTER AVENUE FROM PACIFIC STREET TO A POINT ABOUT MIDWAY BETWEEN DEAN STREET AND BERGEN STREET.

The Engineer's estimate of the quantities is as follows:

340 linear feet of 78-inch brick sewer.

724 linear feet of 72-inch brick sewer.

778 linear feet of 60-inch brick sewer.

763 linear feet of 54-inch brick sewer.

774 linear feet of 42-inch brick sewer.

421 linear feet of 30-inch brick sewer.

38 linear feet of 30-inch brick and concrete sewer.

15 linear feet of special sewer "A."

39 linear feet of special sewer "B."

15 linear feet of 24-inch pipe sewer.

14 linear feet of 18-inch pipe sewer.

770 linear feet of 15-inch pipe sewer.

1,043 linear feet of 12-inch pipe sewer.

144 linear feet of 8-inch house connection drain.

2 Overflow manholes ("A" and "E").

1 Overflow manhole "B."

2 Overflow manholes "C" and "D" with Drop Chambers.

1 Special manhole "X."

2 Manholes, Class "C."

9 Manholes, Class "E."

13 Manholes on pipe sewers, Class "D."

13 Sewer basins reconnected.

63 House connections reconnected.

750,000 feet, board measure, of sheeting and bracing.

8,500 feet, board measure, of foundation planking.

100 cubic yards of Class "B" concrete.

10 cubic yards of brick masonry.

10 barrels of cement.

2,000 lbs. of steel rods.

1,000 linear feet of piles.

The time allowed for the completion of the work and full performance of the contract is two hundred and twenty (220) working days.

The amount of security required is Fifty Thousand Dollars (\$50,000.00).

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, foot board measure, or other unit of measure, by which the bids shall be tested.

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

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Sewers, the Borough of Brooklyn, No. 215 Montague Street, Brooklyn.

L. H. POUNDS, President. Dated, June 21, 1916. j22.jy5

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

SEALED BIDS OR ESTIMATES WILL BE received by the President of Borough of Brooklyn at Room 2, Borough Hall, Brooklyn, until 11 a. m. on

WEDNESDAY, JULY 5, 1916.

Borough of Brooklyn.

NO. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED TO CONSTRUCT SEWERS IN BAY 29TH ST., BETWEEN BATH AVE. AND 86TH ST.

The Engineer's preliminary estimate of the quantities is as follows:

1,308 linear feet of 12-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$1.35..... \$1,765.80

1,308 linear feet of 8-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$1.30..... 1,700.40

650 linear feet of 8-inch house connection drain, laid complete, including elbows, 8" x 6" x 6" V branches and all incidentals and appurtenances; per linear foot, \$0.85..... 552.50

840 linear feet of 6-inch house connection drain, laid complete, including all incidentals and appurtenances; per linear foot, \$0.70..... 588.00

39 house connection drains reconnected, complete, including all incidentals and appurtenances; per house connection drain reconnected, \$3.00..... 117.00

22 manholes, complete, with iron heads and covers, including all incidentals and appurtenances; per manhole, \$45.00..... 990.00

1,000 feet, board measure, of foundation planking and pile capping, laid in place complete, including all incidentals and appurtenances; per thousand feet, board measure, \$25.00..... 25.00

50 linear feet of piles, driven in place complete, including all incidentals and appurtenances; per linear foot, \$0.30..... 15.00

5 cubic yards of concrete, Class "B," laid in place complete, including all incidentals and appurtenances; per cubic yard, \$6.00..... 30.00

5 cubic yards of extra excavation, including sheeting and bracing, and all labor, materials, incidentals and appurtenances; per cubic yard, \$0.50..... 2.50

1 sewer basin, complete, of other standard design, with iron pans or grating, iron basin hood and connecting culvert, including all incidentals and appurtenances; per basin, \$125.00..... 125.00

Total..... \$9,911.20

The time allowed for the completion of the work and full performance of the contract will be sixty (60) working days.

The amount of security required will be Twenty-five Hundred Dollars (\$2,500.00).

NO. 2. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR CONSTRUCTING A SEWER IN 76TH ST., FROM 17TH AVE. TO 18TH AVE.

The Engineer's preliminary estimate of the quantities is as follows:

40 linear feet of 18-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$2.85..... \$114.00

826 linear feet of 15-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$1.95..... 1,610.70

61 linear feet of 12-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$2.25..... 137.25

132 linear feet of 6-inch house connection drain, laid complete, including all incidentals and appurtenances; per linear foot, \$0.70..... 92.40

8 manholes, complete, with iron heads and covers, including all incidentals and appurtenances; per manhole, \$50.00..... 400.00

1 sewer basin reconnected complete, including all incidentals and appurtenances; per reconnection, \$50.00..... 50.00

6,000 feet, Board Measure, of sheeting and bracing, driven in place complete, including all incidentals and appurtenances; per thousand feet, Board Measure, \$18.00..... 108.00

Total..... \$2,512.35

The time allowed for the completion of the work and full performance of the contract will be thirty-five (35) working days.

The amount of security required will be Twelve Hundred Dollars (\$1,200.00).

NO. 3. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR REPAIRING SEWER IN BEVERLY ROAD, BETWEEN FLATBUSH AVE. AND E. 22ND ST.

The Engineer's preliminary estimate of the quantities is as follows:

336 linear feet of 12-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$2.25..... \$756.00

19 house connection drains reconnected complete, with all pipe and fittings, including all incidentals and appurtenances; per reconnection, \$3.00..... 57.00

5 manholes repaired complete, including all incidentals and appurtenances; per manhole repaired, \$10.00..... 50.00

2 sewer basins reconnected complete, including all incidentals and appurtenances

centage of such 100 per cent. (such as 95 per cent., 100 per cent. or 105 per cent.) for which all materials and work called for in the proposed contract and notices to bidders are to be furnished to the City. Such percentage as bid for each contract shall apply to all unit items specified in the Engineer's preliminary estimate to an amount necessary to complete the work described in the contract.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Sewers, 215 Montague st., Brooklyn.

Dated June 16, 1916. **L. H. POUNDS, President.**
 See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the President of Borough of Brooklyn at Room 2, Borough Hall, Brooklyn, until 11 a. m., on

WEDNESDAY, JULY 5, 1916.
 Borough of Brooklyn.

NO. 1. FOR REPAIRING SIDEWALKS ON THE NORTH SIDE OF ATLANTIC AVE. BETWEEN COLUMBIA ST. AND HICKS ST. AND AT 18 OTHER LOCATIONS IN THE HEIGHTS DISTRICT.

The Engineer's estimate is as follows:
 13 linear feet new curbstone set in concrete.
 2,995 square feet old flagstones relaid.
 1,320 square feet new flagstones.
 240 square feet cement sidewalks.
 240 square feet 6-inch cinder or gravel sidewalk foundation.
 145 square feet old crosswalks relaid.
 20 square yards old granite pavement relaid with joint filler of cement grout.
 Time allowed, 30 working days. Security required, \$3,000.

NO. 2. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON BAY 38TH ST. FROM BATH AVE. TO BENSON AVE.

The Engineer's estimate is as follows:
 14,120 cubic yards fill to be furnished.
 1,670 linear feet steel bound cement curb (1 year maintenance).
 8,280 square feet cement sidewalks (1 year maintenance).
 8,280 square feet 6-inch cinder or gravel sidewalk foundation.

Time allowed, 100 working days. Security required, \$3,000.

NO. 3. FOR REPAIRING SIDEWALKS ON THE SOUTH SIDE OF BERGEN ST. BETWEEN KINGSTON AVE. AND ALBANY AVE. AND AT 15 OTHER LOCATIONS IN THE FLATBUSH DISTRICT.

The Engineer's estimate is as follows:
 1,190 square feet old flagstones relaid.
 440 square feet new flagstones.
 1,205 square feet cement sidewalks.
 1,205 square feet 6-inch cinder or gravel sidewalk foundation.
 Time allowed, 30 working days. Security required, \$250.

NO. 4. FOR REPAIRING SIDEWALKS ON THE SOUTH SIDE OF BOLIVAR ST. BETWEEN HUDSON AVE. AND NAVY ST. AND AT 17 OTHER LOCATIONS IN THE HEIGHTS DISTRICT.

The Engineer's estimate is as follows:
 1,320 square feet old flagstones relaid.
 2,090 square feet new flagstones.
 575 square feet cement sidewalks.
 575 square feet 6-inch cinder or gravel sidewalk foundation.
 Time allowed, 30 working days. Security required, \$300.

NO. 5. FOR REPAIRING SIDEWALKS ON THE WEST SIDE OF CLERMONT AVE. BETWEEN FLUSHING AVE. AND PARK AVE. AND AT 19 OTHER LOCATIONS IN THE HEIGHTS, BUSHWICK AND WILLIAMSBURG DISTRICTS.

The Engineer's estimate is as follows:
 4,025 square feet old flagstones relaid.
 6,340 square feet new flagstones.
 2,125 square feet cement sidewalks.
 2,125 square feet 6-inch cinder or gravel sidewalk foundation.
 60 square feet new granite crosswalks.
 20 square yards new granite pavement with joint filler of cement grout.
 35 square yards old granite pavement relaid with joint filler of cement grout.
 Time allowed, 35 working days. Security required, \$1,100.

NO. 6. FOR REGULATING, GRADING, CURBING, LAYING SIDEWALKS AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF E. 17TH ST. FROM AVE. O TO AVE. P.

The Engineer's estimate is as follows:
 5,580 cubic yards excavation.
 340 cubic yards fill (not to be bid for).
 30 linear feet old curbstone reset in concrete.
 20 linear feet blue stone heading stones set in concrete.
 6,780 linear feet steel bound cement curb (1 year maintenance).
 31,070 square feet cement sidewalks (1 year maintenance).
 31,070 square feet 6-inch cinder or gravel sidewalk foundation.
 1,997 cubic yards concrete.
 11,982 square yards asphalt pavement (5 years maintenance).
 Time allowed, 60 working days. Security required, \$12,500.

NO. 7. FOR REGULATING, GRADING, CURBING, LAYING SIDEWALKS AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 5-INCH CONCRETE FOUNDATION THE ROADWAY OF E. 17TH ST. FROM AVE. O TO AVE. P.

The Engineer's estimate is as follows:
 1,000 cubic yards excavation.
 230 cubic yards fill (not to be bid for).
 110 linear feet blue stone heading stones set in concrete.
 1,810 linear feet steel bound cement curb (1 year maintenance).
 5,080 square feet cement sidewalks (1 year maintenance).
 5,080 square feet 6-inch cinder or gravel sidewalk foundation.
 505 cubic yards concrete.
 3,640 square yards asphalt pavement (5 years maintenance).
 1 sewer basin rebuilt.
 Time allowed, 30 working days. Security required, \$3,300.

NO. 8. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON AVENUE Q FROM STILLWELL AVE. TO KINGS HIGHWAY.

The Engineer's estimate is as follows:
 60 cubic yards excavation.
 2,280 cubic yards fill to be furnished.
 1,440 linear feet steel bound cement curb (1 year maintenance).
 6,660 square feet cement sidewalks (1 year maintenance).
 6,660 square feet 6-inch cinder or gravel sidewalk foundation.
 Time allowed, 30 working days. Security required, \$1,000.

NO. 9. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON SACKMAN ST. FROM NEWPORT ST. TO NEW LOTS AVE.

The Engineer's estimate is as follows:
 560 cubic yards excavation.
 170 cubic yards fill (not to be bid for).

10 linear feet old curbstone reset in concrete.
 500 linear feet steel bound cement curb (1 year maintenance).
 2,720 square feet cement sidewalks (1 year maintenance).
 2,720 square feet 6-inch cinder or gravel sidewalk foundation.

Time allowed, 25 working days. Security required, \$400.

NO. 10. FOR LAYING CEMENT SIDEWALKS ON STILLWELL AVE. FROM KINGS HIGHWAY TO 86TH ST. FROM REGULATING AND GRADING FROM KINGS HIGHWAY TO NORTH LINE OF 80TH ST. FOR SETTING CEMENT CURB ON WEST SIDE FROM KINGS HIGHWAY TO 80TH ST. AND ON EAST SIDE FROM KINGS HIGHWAY TO AVENUE R. AND FOR REGULATING, GRADING AND SETTING CEMENT CURB FROM 84TH ST. ON THE WEST SIDE, AND FROM A POINT 460 FEET NORTHERLY OF AVENUE T ON THE EAST SIDE, EACH TO 86TH ST.

The Engineer's estimate is as follows:
 700 cubic yards excavation.
 5,020 cubic yards fill to be furnished.
 3,700 linear feet steel bound cement curb (1 year maintenance).
 29,270 square feet cement sidewalks (1 year maintenance).
 29,270 square feet 6-inch cinder or gravel sidewalk foundation.

Time allowed, 60 working days. Security required, \$3,000.

NO. 11. FOR REGULATING AND REPAIRING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF W. 1ST ST. FROM SURF AVE. TO NEPTUNE AVE.

The Engineer's estimate is as follows:
 30 linear feet blue stone heading stones set in concrete.
 1,035 linear feet steel bound cement curb (1 year maintenance).
 260 cubic yards concrete.
 1,565 square yards asphalt pavement (5 years maintenance).
 1 new temporary drain.

Time allowed, 30 working days. Security required, \$1,200.

NO. 12. FOR REGULATING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF W. 27TH ST. FROM SURF AVE. TO MERMAID AVE. EXCLUDING THE RIGHT-OF-WAY OF THE NEW YORK & CONEY ISLAND RAILROAD CO.

The Engineer's estimate is as follows:
 585 cubic yards excavation to subgrade.
 55 linear feet blue stone heading stones set in concrete.
 445 cubic yards concrete.
 2,660 square yards asphalt pavement (5 years maintenance).
 Time allowed, 30 working days. Security required, \$2,000.

NO. 13. FOR REGULATING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF W. 30TH ST. FROM SURF AVE. TO A LINE ABOUT 360 FEET SOUTH OF SURF AVE.

The Engineer's estimate is as follows:
 275 cubic yards excavation to subgrade.
 30 linear feet blue stone heading stones set in concrete.
 170 cubic yards concrete.
 1,235 square yards asphalt pavement (5 years maintenance).
 Time allowed, 25 working days. Security required, \$900.

NO. 14. FOR REGULATING AND REPAIRING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF W. 3RD AVE. FROM 26TH ST. TO 38TH ST. THE BLOCKS USED ON THIS CONTRACT SHALL BE NEW GRANITE BLOCKS.

The Engineer's estimate is as follows:
 50 linear feet old curbstone reset in concrete.
 150 linear feet new curbstone set in concrete.
 700 linear feet granite heading stones set in concrete.
 1,230 cubic yards concrete, outside railroad area.
 80 cubic yards concrete, within railroad area.
 8,860 square yards grade 1 granite pavement with joint filler of coal tar pitch and sand, outside railroad area.
 1,410 square yards grade 1 granite pavement with joint filler of coal tar pitch and sand, within railroad area.
 65 square yards adjacent pavement to be relaid.
 Time allowed, 60 working days. Security required, \$14,000.

NO. 15. FOR REGULATING AND REPAIRING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF 4TH AVE. FROM 99TH ST. TO 101ST ST.

The Engineer's estimate is as follows:
 270 linear feet old curbstone reset in concrete.
 800 linear feet new curbstone set in concrete.
 45 linear feet blue stone heading stones set in concrete.
 245 cubic yards concrete, outside railroad area.
 30 cubic yards concrete, within railroad area.
 1,465 square yards asphalt pavement, outside railroad area (5 years maintenance).
 270 square yards asphalt pavement, within railroad area (no maintenance).
 10 square yards adjacent pavement to be relaid.
 Time allowed, 30 working days. Security required, \$1,500.

NO. 16. FOR REGULATING, GRADING, CURBING, LAYING SIDEWALKS AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF 20TH AVE. FROM 60TH ST. TO 67TH ST.

The Engineer's estimate is as follows:
 2,345 cubic yards excavation.
 40 cubic yards fill (not to be bid for).
 310 linear feet blue stone heading stones set in concrete.
 720 linear feet steel bound cement curb (1 year maintenance).
 3,750 square feet cement sidewalks (1 year maintenance).
 3,750 square feet 6-inch cinder or gravel sidewalk foundation.
 1,515 cubic yards concrete.
 9,085 square yards asphalt pavement (5 years maintenance).
 Time allowed, 40 working days. Security required, \$7,000.

NO. 17. FOR REGULATING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 5-INCH CONCRETE FOUNDATION THE ROADWAY OF 59TH ST. FROM 15TH AVE. TO 16TH AVE.

The Engineer's estimate is as follows:
 590 cubic yards excavation to subgrade.
 55 linear feet blue stone heading stones set in concrete.
 2 cubic yards concrete, outside railroad area.
 2 cubic yards concrete, within railroad area.
 2,645 square yards asphalt pavement, outside railroad area (5 years maintenance).
 15 square yards asphalt pavement, within railroad area (no maintenance).
 Time allowed, 30 working days. Security required, \$1,800.

NO. 18. FOR FURNISHING AND DELIVERING 120,000 GALLONS OF REFINED ASPHALT IN LIQUID FORM AND 200 TONS

OF 2,000 LBS. EACH OF REFINED ASPHALT IN CONTAINING PACKAGES.

To be delivered to the Municipal Asphalt Plant, 7th st. Basin, Gowanus Canal.
 Time for completion of contract, on or before Dec. 31, 1916.

Security required, 30% of the amount for which the contract is awarded.

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, gallon, cubic yard, square yard, 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.

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 Bureau of Highways, Room No. 501, No. 50 Court St., Brooklyn.

L. H. POUNDS, President.
 Dated, June 16, 1916. **j22,jy5**
 See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF EDUCATION.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Chairman of the Board of Trustees at the office of the Superintendent of School Buildings, Hall of the Board of Education, Park ave. and 59th st., Manhattan, until 11 a. m., on

WEDNESDAY, JULY 5, 1916.

FOR REPAIRS, PAINTING, ETC., AT HUNTER COLLEGE (OLD BUILDING), PARK AVE., 68TH AND 69TH STS., BOROUGH OF MANHATTAN.

The time allowed to complete the whole work will be thirty (30) working days, as provided in the contract.

The amount of security required is Five Hundred Dollars (\$500).
 The deposit accompanying the bid shall be five per cent. of the amount of security.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent of School Buildings, at Estimating Room, 9th floor, Hall of the Board of Education, Park ave. and 59th st., Manhattan.

EDWARD J. MCGUIRE, Chairman, Board of Trustees of Hunter College.
 Dated, June 16, 1916. **j22,jy5**
 See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the office of the Department of Education, Park ave. and 59th st., Manhattan, until 11 a. m., on

MONDAY, JULY 3, 1916.

Borough of Brooklyn.
FOR ALTERATIONS AND REPAIRS TO HEATING APPARATUS IN PUBLIC SCHOOL 43, BOERUM ST. NEAR MANHATTAN AVE. AND PUBLIC SCHOOL 147, BUSHWICK AVE. SIEGEL AND MCKIBBEN STS., BOROUGH OF BROOKLYN.

The time allowed to complete the whole work on each school will be sixty (60) working days, as provided in the contract.

The amount of security required is as follows:
 P. S. 43, \$10,000; P. S. 147, \$600.
 The deposit accompanying bid on each school shall be five per cent. of the amount of security.

A separate proposal must be submitted for each school and award will be made thereon.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at Estimating Room, 9th floor, Hall of the Board of Education, Park ave. and 59th st., Manhattan, and also at Branch Office, 131 Livingston st., Brooklyn.

C. B. J. SNYDER, Superintendent of School Buildings.
 Dated, June 21, 1916. **j21,jy3**
 See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Supplies at the office of the Department of Education, Park ave. and 59th st., Manhattan, until 11 a. m.

TUESDAY, JUNE 27, 1916.
FOR FURNISHING AND DELIVERING SUPPLIES TO THE MURRAY HILL VOCATIONAL SCHOOL, DEPARTMENT OF EDUCATION 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 Dec. 31, 1916.

The amount of security required for the faithful performance of the contract is thirty (30%) per cent. of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedule herein contained or hereto annexed, by which the bids will be tested. Award, if made, will be made to the lowest bidder on each item. The said reference is made only as a means of briefly describing the article called for.

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

Bids must be submitted in duplicate, each in a separate envelope.

Blank forms and further information may be obtained at the office of the Superintendent of School Supplies, Board of Education, Manhattan, Southwest corner of Park ave. and 59th st.

PATRICK JONES, Superintendent of School Supplies.
 Dated, June 15, 1916. **j15,j27**
 See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the office of the Department of Education, Park ave. and 59th st., Manhattan, until 11 a. m., on

MONDAY, JUNE 26, 1916.

Borough of Brooklyn.
FOR ALTERATIONS, REPAIRS, ETC., AT PUBLIC SCHOOL 74, KOSCIUSKO ST. NEAR BROADWAY, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work will be fifty-five (55) working days, as provided in the contract.

The amount of security required is Four Hundred Dollars (\$400).
 The deposit accompanying bid shall be five per cent. of the amount of security.

MONDAY, JUNE 26, 1916.
Borough of Brooklyn.
FOR ALTERATIONS, REPAIRS, ETC., AT PUBLIC SCHOOL 37, SOUTH 4TH AND 3D STS., NEAR BERRY ST., BOROUGH OF BROOKLYN.

The time allowed to complete the whole work will be fifty-five (55) working days, as provided in the contract.

The amount of security required is Five Hundred Dollars (\$500).
 The deposit accompanying bid shall be five per cent. of the amount of security.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at Estimating Room, 9th floor, Hall of the Board of Education, Park ave. and 59th st., Manhattan, and also at Branch Office, 131 Livingston st., Brooklyn.

C. B. J. SNYDER, Superintendent of School Buildings.
 Dated, June 14, 1916. **j14,j26**
 See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the office of the Department of Education, Park ave. and 59th st., Manhattan, until 11 a. m., on

MONDAY, JUNE 26, 1916.

Borough of Manhattan.
FOR ADDITIONS, ALTERATIONS AND REPAIRS TO THE ELECTRIC EQUIPMENT IN PUBLIC SCHOOLS 25, 39, 71, 75, 119 AND HIGH SCHOOL OF COMMERCE, BOROUGH OF MANHATTAN.

The time allowed to complete the whole work will be thirty (30) working days for P. S. 39 and forty-five (45) working days for P. S. 25, 71, 75, 119 and High School of Commerce, as provided in the contract.

The amount of security required is as follows:
 P. S. 25, \$1,400; P. S. 39, \$500; P. S. 71, \$1,400; P. S. 75, \$1,400; P. S. 119, \$1,600; High School of Commerce, \$1,600.

The deposit accompanying bid on each school shall be five per cent. of the amount of security.

A separate proposal shall be submitted for each school and award will be made thereon.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at Estimating Room, 9th floor, Hall of the Board of Education, Park ave. and 59th st., Manhattan.

C. B. J. SNYDER, Superintendent of School Buildings.
 Dated, June 14, 1916. **j14,j26**
 See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the office of the Department of Education, Park ave. and 59th st., Manhattan, until 11 a. m., on

MONDAY, JUNE 26, 1916.

Borough of The Bronx.
NO. 1. FOR PLUMBING AND DRAINAGE OF ADDITIONS TO AND ALTERATIONS IN PUBLIC SCHOOL 45, ON E. 189TH ST., LORILLARD PL. AND HOFFMAN ST., BOROUGH OF THE BRONX.

The time allowed to complete the whole work will be one hundred and seventy-five (175) working days, as provided in the contract.

The amount of security required is Six Thousand Dollars (\$6,000).
 The deposit accompanying bid shall be five per cent. of the amount of security.

NO. 2. FOR FURNITURE, ETC., FOR NEW PUBLIC SCHOOL 55, ON THE SOUTHERLY SIDE OF ST. PAUL'S PL., BETWEEN PARK AND WASHINGTON AVES., BOROUGH OF THE BRONX.

The time allowed to complete the whole work will be thirty (30) working days, as provided in the contract.

The amount of security required is as follows:
 Item 1, \$2,500; Item 2, \$700; Item 3, \$1,200; Item 4, \$400; Item 5, \$1,000; Item 6, \$400.

The deposit accompanying bid on each item shall be five per centum of the amount of security.

A separate proposal must be submitted for each item and award will be made thereon.

Borough of Manhattan.
NO. 3. FOR ALTERATIONS, REPAIRS, ETC., AT PUBLIC SCHOOL 7, CHRYSTIE AND HESTER STS., BOROUGH OF MANHATTAN.

The time allowed to complete the whole work will be fifty-five (55) working days, as provided in the contract.

The amount of security required is Three Hundred Dollars (\$300).
 The deposit accompanying bid shall be five per cent. of the amount of security.

Borough of Richmond.
NO. 4. FOR ADDITIONS TO AND ALTERATIONS IN THE ELECTRIC EQUIPMENT IN PUBLIC SCHOOL 18, BROADWAY, WEST NEW BRIGHON, BOROUGH OF RICHMOND.

The time allowed to complete the whole work will be forty (40) working days, as provided in the contract.

The amount of security required is One Thousand Dollars (\$1,000).
 The deposit accompanying bid shall be five per cent. of the amount of security.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at Estimating Room, 9th floor, Hall of the Board of Education, Park ave. and 59th st., Manhattan, and also at Branch Office, Borough Hall, New Brighton, Richmond, for work for their respective Boroughs.

C. B. J. SNYDER, Superintendent of School Buildings.
 Dated, June 14, 1916. **j14,j26**
 See General Instructions to Bidders on last page, last column, of the "City Record."

BOROUGH OF RICHMOND.
Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Richmond at Borough Hall, St. George, New Richmond, S. I., until 12 noon on

WEDNESDAY, JULY 5, 1916.

Borough of Richmond.
NO. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR DELIVERY OF ONE HUNDRED GROSS TONS OF BUCKWHEAT COAL NO. 1 AND THIRTY-FIVE GROSS TONS OF STOVE COAL, ETC.

The Superintendent's estimate of the quantity and quality of the coal, and the nature and extent, as near as possible, of the amounts required is as follows:
 Thirty-five gross tons of stove coal to County Clerk's Office and Court House, Richmond; Village Halls at Stoughton and New Brighton; old bank building at St. George, and Coroner's Office at New Brighton. One hundred gross tons of buckwheat coal No. 1 to Borough Hall, St. George, S. I. Coal to be delivered as directed.

awarded at a lump or aggregate sum for the contract.

Bidders are requested to make their bids or estimates upon the blank form prepared by the President, a copy of which, with the proper envelope in which to enclose 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 Bureau of Public Buildings and Offices, Room 18, Borough Hall, St. George, S. I.

CALVIN D. VAN NAME, President.
New York, June 15, 1916. j22jy5
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Richmond at Borough Hall, St. George, New Brighton, S. I., until 12 noon on

FRIDAY, JUNE 30, 1916.

Borough of Richmond.
FOR PLUMBING WORK OF AN ADDITIONAL COUNTY COURT HOUSE, IN THE COUNTY OF RICHMOND, PL. ST. DEKALB ST. AND STUYVESANT PL. ST. GEORGE, BOROUGH OF RICHMOND, NEW YORK CITY.

The time for the completion of the work and the full performance of the contract is twelve (12) calendar months.

The amount of security required for the performance of the contract is Ten Thousand Dollars (\$10,000), and the amount of deposit accompanying the bid shall be five (5) per cent. of the amount of security.

The bidder shall state the price of each item contained in the Engineer's estimate.

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

Bidders are requested to make their bids or estimates upon the blank form prepared by the President, a copy of which, with the proper envelope in which to enclose the bid, can be obtained upon application therefor at the office of the Engineer, Bureau of Engineering, Borough Hall, St. George, S. I., where plans and the contract, including the specifications, in the form approved by the Corporation Counsel, may be seen and other information obtained.

CALVIN D. VAN NAME, President.
New York, June 14, 1916. j20j30
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Richmond at Borough Hall, St. George, New Brighton, S. I., until 12 noon on

FRIDAY, JUNE 30, 1916.

Borough of Richmond.
NO. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR 860 CUBIC YARDS OF 1 TO 2-INCH BROKEN STONE AND 230 CUBIC YARDS OF SCREENINGS OF TRAP ROCK IN STONE DISTRICT NO. 1.

The time for the completion of the work and the full performance of the contract is before Dec. 31, 1916.

The amount of security required is 30% of total amount for which contract is awarded.

NO. 2. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR 950 CUBIC YARDS OF 1 TO 2-INCH BROKEN STONE AND 260 CUBIC YARDS OF SCREENINGS OF TRAP ROCK IN STONE DISTRICT NO. 2.

The time for the completion of the work and the full performance of the contract is before Dec. 31, 1916.

The amount of security required is 30% of total amount for which contract is awarded.

NO. 3. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR 570 CUBIC YARDS OF 1 TO 2-INCH BROKEN STONE AND 190 CUBIC YARDS OF SCREENINGS OF TRAP ROCK IN STONE DISTRICT NO. 3.

The time for the completion of the work and the full performance of the contract is before Dec. 31, 1916.

The amount of security required is 30% of total amount for which contract is awarded.

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

Bidders are requested to make their bids or estimates upon the blank form prepared by the President, a copy of which, with the proper envelope in which to enclose 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 said President. The plans and drawings may be seen and other information obtained at the office of the Commissioner of Public Works of the Borough of Richmond, Borough Hall, New Brighton, Borough of Richmond.

HENRY P. MORRISON, Acting President.
New York, June 12, 1916. j20j30
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Richmond at Borough Hall, St. George, New Brighton, S. I., until 12 noon on

MONDAY, JUNE 26, 1916.

Borough of Richmond.
FOR REGULATING AND REPAVING WITH BITUMINOUS CONCRETE PAVEMENT THE ROADWAY OF BUSH AVE. FROM RICHMOND TERRACE TO THE STATION ISLAND RAPID TRANSIT RAILROAD TRACKS, TOGETHER WITH ALL WORK INCIDENTAL THEREOF.

The Engineer's estimate of the quantity and quality of the materials, and the nature and extent, as near as possible, of the work required is as follows:

2,650 square yards of bituminous concrete pavement, with five years maintenance.

10 square yards of vitrified brick pavement, including dry mortar bed and laid with cement grout joints, with five years maintenance.

450 cubic yards of concrete foundation.

The time for the completion of the work and the full performance of the contract is twenty days.

The amount of security required for the performance of the contract is Twenty-two Hundred Dollars (\$2,200), and the amount of deposit accompanying the bid shall be five (5) per cent. of the amount of security.

The bidder shall state the price of each item contained in the Engineer's estimate.

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

Bidders are requested to make their bids or estimates upon the blank form prepared by the President, a copy of which, with the proper envelope in which to enclose the bid, can be obtained upon application therefor at the office of the Engineer, Bureau of Engineering, Borough Hall, St. George, S. I., where plans and the contract, including the specifications, in the form approved by the Corporation Counsel, may be seen and other information obtained.

CALVIN D. VAN NAME, President.
New York, June 10, 1916. j15j26
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of

Richmond, at Borough Hall, St. George, New Brighton, N. Y. City, until 12 noon on

MONDAY, JUNE 26, 1916.

Borough of Richmond.
NO. 2. FOR CONSTRUCTING CEMENT CURB WITH STEEL GUARD ON VARIAN ST. FROM MCKEON ST. TO A POINT ABOUT 243 FEET SOUTH OF THE SOUTH HOUSE LINE OF MCKEON ST. LAYING VITRIFIED BRICK GUTTER ON CONCRETE FOUNDATION; LAYING CEMENT SIDEWALK; RELAYING OLD FLAGSTONE, AND RESETTING OLD BLUESTONE CURB, TOGETHER WITH ALL WORK INCIDENTAL THEREOF.

The Engineer's estimate of the quantity and quality of the materials, and the nature and extent, as near as possible, of the work required is as follows:

450 linear feet of cement curb, with steel guard, constructed.

160 square yards of vitrified brick gutter, including dry mortar bed, with 1 year maintenance.

28 cubic yards of concrete foundation.

1,750 square feet of concrete sidewalk, constructed.

200 square feet of old flagstone, to be relaid.

25 linear feet of old bluestone curbstone, redressed, rejoined and reset.

The time for the completion of the work and the full performance of the contract is ten (10) days.

The amount of security required for the performance of the contract is Four Hundred Dollars (\$400), and the amount of deposit accompanying the bid shall be five (5) per cent. of the amount of security.

The bidder shall state the price of each item contained in the Engineer's estimate.

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

Bidders are requested to make their bids or estimates upon the blank form prepared by the President, a copy of which, with the proper envelope in which to enclose the bid, can be obtained upon application therefor at the office of the Engineer, Bureau of Engineering, Borough Hall, St. George, S. I., where plans and the contract, including the specifications, in the form approved by the Corporation Counsel, may be seen and other information obtained.

CALVIN D. VAN NAME, President.
New York, June 12, 1916. j15j26
See General Instructions to Bidders on last page, last column, of the "City Record."

SUPREME COURT—FIRST DEPARTMENT.

Filing Preliminary Abstracts.

In the Matter of the Application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of NEWTON AVENUE, from West 253rd street to West 260th street, in the 24th Ward, Borough of The Bronx, City of New York.

NOTICE IS HEREBY GIVEN TO ALL PERSONS interested in the above entitled 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 the undersigned, Commissioners of Estimate, have completed their supplemental and amended estimate of damage, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with them at their office, Room 1557, 15th Floor, Municipal Building, Chambers and Centre streets, in the Borough of Manhattan, in the City of New York, on or before the 7th day of July, 1916, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 10th day of July, 1916, at 2 o'clock p. m.

Second.—That the undersigned, Commissioner of Assessment, has completed his supplemental and amended estimate of benefit and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with him at his office, Room 1557, 15th Floor, Municipal Building, Chambers and Centre streets, in the Borough of Manhattan, in the City of New York, on or before the 7th day of July, 1916, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 11th day of July, 1916, at 2 o'clock p. m.

Third.—That the Commissioner of Assessment has assessed any or all such lands, tenements and hereditaments and premises as are within the area of assessment fixed and prescribed as the area of assessment for benefit by the Board of Estimate and Apportionment on the 11th day of January, 1912, and that the said area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of The Bronx, in the City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point on the prolongation of a line midway between Sylvan avenue and Newton avenue, distant 100 feet southerly from the southerly line of West 253d street, the said distance being measured at right angles to West 253d street, and running thence northwesterly along a line always midway between Sylvan avenue and Newton avenue and the prolongations thereof to the intersection with a line midway between Moshulu avenue and Faraday avenue; thence westwardly along the said line midway between Moshulu avenue and Faraday avenue to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the centre lines of Huxley avenue and Newton avenue as these streets are laid out between Moshulu avenue and West 259th street; thence northwesterly along the said bisecting line to the intersection with a line distant 100 feet westerly from and parallel with the westerly line of Newton avenue, as this street is laid out where it adjoins West 260th street, the said distance being measured at right angles to Newton avenue; thence northwesterly along the said line parallel with Newton avenue to the intersection with the southerly line of West 260th street; thence northwesterly at right angles to West 260th street a distance of 160 feet; thence eastwardly and always distant 100 feet northwesterly from and parallel with the southerly line of West 260th street to the intersection with the prolongation of a line distant 100 feet easterly from and parallel with the easterly line of Newton avenue as this street is laid out where it adjoins West 260th street, the said distance being measured at right angles to Newton avenue and the prolongations thereof to a point distant 100 feet southerly from the southerly line of West 253d street; thence westerly and always distant 100 feet southerly from and parallel with the southerly line of West 253d street to the point or place of beginning.

Fourth.—That the abstracts of said supple-

mental and amended estimate of damage and of said supplemental and amended assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, Room 1529, 15th Floor, Municipal Building, Chambers and Centre Streets, in the Borough of Manhattan, in said City, there to remain until the 10th day of July, 1916.

Fifth.—That, provided there be no objections filed to either of said supplemental and amended abstracts, the supplemental and amended reports as to awards and as to assessments for benefit 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 Court House in the Borough of Manhattan, in the City of New York, on the 5th day of October, 1916, at the opening of the Court on that day.

Sixth.—In case, however, objections are filed to the foregoing supplemental and amended abstracts of estimate and assessment, or to either of them, the motion to confirm the supplemental and amended reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to Sections 881 and 984 of the Greater New York Charter, as amended by Chapter 658 of the Laws of 1906.

Dated, New York, June 21, 1916.

CHAS. C. MARRIN, Chairman; CHAS. SCHIANO, JAMES W. O'BRIEN, Commissioners of Estimate. CHAS. C. MARRIN, Commissioner of Assessment.

JOEL J. SQUIER, Clerk. j24jy6

Filing Tentative Decree—Notice to File Objections.

In the matter of the application of The City of New York, relative to acquiring title to WEST 230TH STREET, from Bailey avenue to Kingsbridge Terrace, in the 24th Ward, Borough of The Bronx, City of New York.

NOTICE IS HEREBY GIVEN TO ALL PARTIES interested in the above entitled proceeding, as follows:

First.—That the Supreme Court of the State of New York, in and for the County of Bronx, after considering the testimony and proofs submitted on the trial of the above entitled proceeding, has completed its estimate of the compensation which should be made by The City of New York to the respective owners of real property to be acquired in this proceeding, and has made an assessment of the value of the benefit and advantage of the improvement to the respective owners of the real property within the area of assessment for benefit herein, and that the tentative decree of the said Court as to awards for damages and as to assessments for benefit was signed on the 5th day of June, 1916, by Hon. George V. Mullan, Justice of the Supreme Court, presiding at the trial of the above entitled proceeding, and was filed with the Clerk of the County of Bronx on the 16th day of June, 1916, for the inspection of whomsoever it may concern.

Second.—That the said Court has assessed all the real property within the area of assessment fixed and described as the area of assessment for benefit by the Board of Estimate and Assessment on the 29th day of July, 1915, and that the said area of assessment includes the parcels of real property situate and being in the Borough of Bronx, in The City of New York, which, taken together, are bounded and described as follows:

Bounded on the north by a line parallel with West 230th street, as this street is laid out where it adjoins Bailey avenue on the east, and passing through a point on the westerly line of Heath avenue midway between West 230th street and Albany Crescent; on the east by a line always distant 100 feet easterly from and parallel with the easterly line of Kingsbridge Terrace, the said distance being measured at right angles to Kingsbridge Terrace; on the south by a line bisecting the angle formed by the intersection of the prolongations of the centre lines of West 230th street and West 229th street as these streets are laid out where they adjoin Bailey avenue on the east; and on the west by a line always distant 100 feet westerly from and parallel with the westerly line of Bailey avenue, the said distance being measured at right angles to Bailey avenue.

Third.—That The City of New York and all other parties interested in such proceeding or in any of the real property affected thereby, having any objections thereto, shall file such objections in writing, duly verified, in the manner required by law for the verification of pleadings in an action, setting forth the real property owned by the objector and his post office address, with the Clerk of the County of Bronx on or before the 6th day of July, 1916, and within the same time serve on the Corporation Counsel of The City of New York, at his office, Room 1557, 15th floor, Municipal Building, Borough of Manhattan, City of New York, a copy of such verified objections.

Fourth.—That on the 11th day of July, 1916, at 10 o'clock in the forenoon of that day, or as soon thereafter as Counsel can be heard, the Corporation Counsel of The City of New York will apply at a Special Term for the hearing of motions to be held at the Bronx County Court House in the Borough of Bronx to the Hon. George V. Mullan, the Justice of the Supreme Court who signed said tentative decree to fix a time when said Justice will hear the parties who will have filed objections to the said tentative decree.

Dated, New York, June 16, 1916.

LAMAR HARDY, Corporation Counsel, Municipal Building, Borough of Manhattan, New York City. j16jy3

SUPREME COURT—SECOND DEPARTMENT.

Applications to Amend Proceedings.

In the Matter of the Application of The City of New York, relative to amending its application heretofore made in the Matter of the Application of The City of New York, relative to acquiring title wherever the same has not been heretofore acquired for the same purpose in fee to the lands, tenements and hereditaments required for the opening and extending of CORONA AVENUE, from Hampton Street to Rodman Street, in the Second Ward, Borough of Queens, City of New York, as heretofore amended by an order of the Supreme Court of the State of New York, Second Judicial District, dated April 22, 1915, and duly entered and filed in the office of the Clerk of the County of Queens on April 23, 1915, so as to conform to a map or plan adopted by the Board of Estimate and Apportionment on October 15, 1915, in which certain additional changes were made in the position of the lines of said Corona avenue, in the block between Junction avenue and Alstyne avenue, and also to conform to a map or plan adopted by the Board of Estimate and Apportionment January 21, 1916, and approved by the Mayor January 25, 1916, in which Luring street was discontinued in the block between Junction avenue and Corona avenue, this incidentally involving the fixing of the northerly line of Corona Avenue across

the former intersection with Luring Street; the proceeding as now amended providing for the acquisition of title to Corona Avenue, from Hampton street to Rodman street, as said Corona avenue is now laid out upon the map or plan of The City of New York.

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 Judicial District, at a Special Term, for the hearing of motions, held in and for the County of Kings, at the County Court-house, in the Borough of Brooklyn, in The City of New York, on the 7th day of July, 1916, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for an order amending the proceeding entitled "In the Matter of the Application of The City of New York relative to acquiring title wherever the same has not been heretofore acquired for the same purpose in fee to the lands, tenements and hereditaments required for the opening and extending of Corona Avenue, from Hampton Street to Rodman Street, in the Second Ward, Borough of Queens, City of New York," as heretofore amended by an order of the Supreme Court of the State of New York, Second Judicial District, dated April 22, 1915, and duly entered and filed in the office of the Clerk of the County of Queens on April 23, 1915, and the petition and order appointing Commissioners of Estimate and a Commissioner of Assessment in the above-entitled proceeding heretofore duly entered and filed in the office of the Clerk of the County of Queens on the 30th day of December, 1913, so as to conform to a map or plan adopted by the Board of Estimate and Apportionment on October 15, 1915, in which certain additional changes were made in the position of the lines of said Corona avenue, in the block between Junction avenue and Alstyne avenue, and also to conform to a map or plan adopted by the Board of Estimate and Apportionment January 21, 1916, and approved by the Mayor on January 25, 1916, in which Luring street was discontinued in the block between Junction avenue and Corona avenue, this incidentally involving the fixing of the northerly line of Corona Avenue across the former intersection with Luring street; the proceeding as now amended, providing for the acquisition of title to Corona Avenue, from Hampton Street to Rodman street, as said Corona avenue is now laid out upon the map or plan of The City of New York.

The lines as amended are shown as follows: Corona avenue, between the westerly line of Junction avenue and the northerly line of Alstyne avenue, is laid down upon a "Map showing a change in the street system heretofore laid out within the territory bounded by Junction avenue, Alstyne avenue, Sotham avenue and Gerry avenue, in the Second Ward. Dated June 4, 1915," approved by the Board of Estimate and Apportionment October 15, 1915, by the Mayor November 1, 1915, and filed in the office of the County Clerk of Queens County at Jamaica February 14, 1916, at the office of the Corporation Counsel of The City of New York February 14, 1916, and at the office of the President of the Borough of Queens February 16, 1916, and is bounded and described as follows:

DESCRIPTION OF AMENDED NORTHWESTERLY LINE. Beginning at a point formed by the intersection of the northerly line of Corona Avenue, as previously established, and the westerly line of old Junction Avenue. Running thence easterly, deflecting to the left 7° 22' 15" from the prolongation of said northerly line of Corona Avenue for 67.18 feet along the northerly line of Corona Avenue to the easterly line of old Junction Avenue. Thence northeasterly, deflecting to the left 46° 30' 01" for 424.34 feet along the northerly line of Corona Avenue to the southerly line of Alstyne Avenue. Thence northerly, deflecting to the left 28° 14' 00" for 60.15 feet along the westerly line of Corona Avenue to the northerly line of Alstyne Avenue. Thence northerly, deflecting to the left 6° 20' 04" along the westerly line of Corona Avenue, as previously established.

DESCRIPTION OF THE NEW SOUTHEASTERLY LINE. Beginning at a point formed by the intersection of the easterly line of Corona Avenue, as previously established, with the northerly line of Alstyne Avenue. Running thence southerly, deflecting to the left 7° 32' 14" from said line of Corona Avenue for 60.88 feet along the easterly line of Corona Avenue to the southerly line of Alstyne Avenue. Thence southerly, deflecting to the right 28° 12' 12" for 48.75 feet along the southerly line of Corona Avenue to the easterly line of Junction Avenue. Thence westerly, deflecting to the right 22° 44' 39" for 80.37 feet along the southerly line of Corona Avenue to the westerly line of Junction Avenue. Thence westerly, deflecting to the right 2° 55' 25" along the southerly line of Corona Avenue, as previously established.

The northwesterly line of Corona Avenue, between a point on the westerly line of Corona Avenue, 103.67 feet northerly from the northerly line of Merrit place, and the northerly line of Corona Avenue east of Louona Avenue, is shown upon the map approved by the Board of Estimate and Apportionment January 21, 1916, by the Mayor January 25, 1916, of territory bounded by Junction Avenue, South Railroad Avenue, Louona Avenue, Corona Avenue, etc., copies of which were filed at the office of the County Clerk of Queens County at Jamaica April 17, 1916, at the office of the Corporation Counsel of The City of New York April 15, 1916, and at the office of the President of the Borough of Queens April 18, 1916. The portion of the line which is changed is bounded and described as follows:

Beginning at a point on the westerly line of Corona Avenue 103.67 feet northerly from the northerly line of Merrit place. Running thence northeasterly for 466.12 feet along the northwesterly line of Corona Avenue to the westerly line of Louona Avenue. Thence northerly, deflecting to the left 30° 21' 43" for 161.51 feet along the westerly line of Louona Avenue to where the same is intersected by the northerly line of Corona Avenue.

The Board of Estimate and Apportionment by a resolution adopted on the 17th day of March, 1916, duly determined that the area of assessment for benefit in this amended proceeding be fixed and determined to be as follows:

Beginning at a point on the southerly property line of the Long Island Railroad where it is intersected by a line at right angles to Corona Avenue, and passing through a point on its northwesterly side, midway between Hampton Street and Neil place, and running thence easterly along the said property line of the Long Island Railroad to the intersection with a line midway between Way Avenue and Alburis Avenue; thence southwardly along the said line midway to the intersection with a line midway between Luring Street and Merrit Street; thence easterly along the said line midway between Luring Street and Merrit Street to a point distant 600 feet northeasterly from the northeasterly line of Corona Avenue, the said distance being measured at right angles to Corona Avenue; thence southeasterly and always distant 600 feet northeasterly from and parallel with the northeasterly line of Corona Avenue and the prolongations thereof to the intersection with the prolongation of the northerly line of Rod-

man street; thence southwardly along a line at right angles to Rodman street to the intersection with the prolongation of a line midway between Tredwell street and Urquhart street; thence westwardly along the said line midway between Tredwell street and Urquhart street and along the prolongations of the said line to the intersection with a line parallel with Seminole avenue and passing through a point on the southerly line of Scudder street where it is intersected by the prolongation of a line midway between Van Doren street and Waldron street; thence northwardly along the said line parallel with Seminole avenue to the southerly line of Scudder street; thence northwardly along the said line midway between Van Doren street and Waldron street and along the prolongation of the said line to a point distant 600 feet southwardly from the southerly line of Corona avenue, the said distance being measured at right angles to Corona avenue; thence generally northwardly and always distant 600 feet southwardly from and parallel with the southerly line of Corona avenue and the prolongations thereof to the intersection with the prolongation of a line midway between Gerry avenue and Maurice avenue; thence westwardly along the said line midway between Gerry avenue and Maurice avenue and along the prolongation of the said line to the intersection with the prolongation of a line midway between Etna place and Medina place; thence northwardly along the said line midway between Etna place and Medina place and along the prolongations of the said line to the intersection with a line at right angles to Corona avenue, and passing through the point of beginning; thence northwardly along the said line at right angles to Corona avenue to the point or place of beginning.

Dated, New York, June 24, 1916.
LAMAR HARDY, Corporation Counsel,
Municipal Building, Borough of Manhattan, City of New York. j24,jy6

Filing Final Reports.

In the Matter of the Application of The City of New York, relative to acquiring title in fee, wherever the same has not been heretofore acquired, to the lands and premises required for the opening and extending of CYPRESS AVENUE, between Sixteenth street and Broadway, in the Third Ward, Borough of Queens, City of New York, as amended and corrected by an order of the Supreme Court, Second Department, dated December 17, 1912, and entered in the office of the Clerk of the County of Queens on December 19, 1912, so as to relate to CYPRESS AVENUE (California Avenue) from 16th street (Dutchess street) to the centre line of Broadway (Jackson Avenue), and THIRTIETH STREET (Ratonee Street) from Cypress avenue (California Avenue) to the centre line of Broadway (Jackson Avenue) as now laid out.

The land to be acquired in this proceeding is more particularly bounded and described in the petition thereto attached.

NOTICE IS HEREBY GIVEN TO ALL PERSONS interested in the above-entitled 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 the undersigned, Commissioners of Estimate and Assessment, have completed their supplemental and amended estimate of damage, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with them at their office, in the Municipal Building, Court House Square, Long Island City, in the Borough of Queens, in the City of New York, on or before the 6th day of July, 1916, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 10th day of July, 1916, at 2 o'clock P. M.

Second.—That the undersigned, Commissioner of Assessment, has completed his supplemental and amended estimate of benefit and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with him at his office, in the Municipal Building, Court House Square, Long Island City, in the Borough of Queens, in the City of New York, on or before the 6th day of July, 1916, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 11th day of July, 1916, at 2 o'clock p. m.

Third.—That the Commissioner of Assessment has assessed any or all such lands, tenements and hereditaments and premises as are within the area of assessment fixed and prescribed as the amended area of assessment for benefit by the Board of Estimate and Apportionment on the 13th day of June, 1912, and that the said area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of Queens, in the City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point on the easterly line of Sixteenth street (Dutchess street) where it is intersected by a line bisecting the angle formed by the intersection of the prolongations of the southerly line of Sanford avenue and the northerly line of Cypress avenue (California Avenue) as these streets are laid out adjoining Sixteenth street (Dutchess street) on the east, and running thence eastwardly along the said bisecting line to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the southerly line of Sanford avenue and the northerly line of Cypress avenue (California Avenue) as these streets are laid out between Twenty-second street (Jostin street) and Twenty-third street (Kendall place); thence eastwardly along the said bisecting line to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the southerly line of Sanford avenue and the northerly line of Cypress avenue (California Avenue) as these streets are laid out east of Twenty-sixth street (Norwood place); thence eastwardly along the said bisecting line to the intersection with a line distant 100 feet northerly from and parallel with the northerly line of Cypress avenue (California Avenue), the said distance being measured at right angles to Cypress avenue; thence eastwardly along the said line parallel with Cypress avenue (California Avenue) and along the prolongation of the said line to a point distant 100 feet easterly from the easterly line of Thirty-first street (Stiles place); thence southwardly and parallel with Thirty-first street (Stiles place) to the intersection with the easterly line of Sixteenth street (Dutchess street); thence northwardly along the easterly line of Sixteenth street (Dutchess street) to the point or place of beginning.

Fourth.—That the abstracts of said supplemental and amended estimate of damage and of said supplemental and amended estimate of benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners

of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, in the Municipal Building, Court House Square, in the Borough of Queens, in said City, there to remain until the 10th day of July, 1916.

Fifth.—That, provided there be no objections filed to either of said abstracts, the reports as to said supplemental and amended awards and as to said supplemental and additional assessments for benefit 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 Court House in the Borough of Brooklyn, in The City of New York, on the 5th day of October, 1916, at the opening of the Court on that day.

Sixth.—In case, however, objections are filed to the foregoing abstracts of said supplemental and amended estimate and of said supplemental and additional assessment or to either of them the motion to confirm the reports as to said supplemental and amended awards and as to said supplemental and additional assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to Sections 981 and 984 of the Greater New York Charter, as amended by Chapter 658 of the Laws of 1906.

Dated, New York, June 19, 1916.
IRA G. DARRIN, FRANK E. LOSEE,
JOHN E. McCABE, Commissioners of Estimate.
IRA G. DARRIN, Commissioner of Assessment.
WALTER C. SHEPARD, Clerk. j23,jy5

In the Matter of the Application of The City of New York, relative to acquiring title in fee to the lands, tenements and hereditaments required for the purpose of opening and extending Sixty-sixth Street from 4th avenue to the westerly line of New Utrecht avenue, and from the easterly line of New Utrecht avenue to 22d avenue, excluding the land of the New York and Sea Beach Railroad, in the 30th Ward of the Borough of Brooklyn, The City of New York.

NOTICE IS HEREBY GIVEN THAT THE final report of the Commissioners of Estimate and Commissioner of Assessment in the above entitled matter will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof to be held in the County Court House in the Borough of Brooklyn, City of New York, on the 27th day of June, 1916, at 10:00 o'clock in the forenoon of that day, and that the said final report has been deposited in the office of the Clerk of the County of Kings there to remain for and during the space of five days, as required by law.

Dated, New York, June 21, 1916.
JOHN P. HURLEY, RAYMOND D. THURBER, RICHARDSON WEBSTER, Commissioners of Estimate; JOHN P. HURLEY, Commissioner of Assessment.
ANDREW C. TROY, Clerk. j21,26

Application for Court to Condemn Property.

In the Matter of the Application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose, to an easement in the lands, tenements and hereditaments required for the purpose of constructing and maintaining SEWER OUTLETS between Stanley Avenue and Fresh Creek Basin, opposite Williams Avenue, in the 26th and 32nd Wards, Borough of Brooklyn, City of New York, as shown upon a map dated August 20, 1915, and approved by the Board of Estimate and Apportionment September 17, 1915.

NOTICE IS HEREBY GIVEN THAT AN application will be made to the Supreme Court of the State of New York, Second Judicial District, at a Special Term of said court to be held for the hearing of motions in the County Court House in the County of Kings, in the Borough of Brooklyn, City of New York, on the 30th day of June, 1916, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, to have the compensation which should justly be made to the respective owners of the easement proposed to be taken, ascertained and determined by the Supreme Court without a jury.

The nature and extent of the improvement hereby intended is the acquisition of an easement by The City of New York for the use of the public to all the lands and premises, together with the buildings thereon and the appurtenances thereunto belonging required for Sewer Outlets, between Stanley Avenue and Fresh Creek Basin, opposite Williams Avenue, in the 26th and 32nd Wards in the Borough of Brooklyn, City of New York. The real property, the easement title to which is proposed to be acquired, is more particularly bounded and described as follows:

Beginning at a point on the south line of Stanley Avenue, distant 459 feet westerly from the intersection of the westerly line of Louisiana avenue with the south line of Stanley Avenue, as these streets are laid out on the map of The City of New York; thence westerly along the south line of Stanley Avenue 700 feet; thence southerly deflecting 90° to the left 300.0 feet to the proposed pierhead and bulkhead line of Fresh Creek Basin; thence easterly deflecting 90° to the left along the proposed pierhead and bulkhead line of Fresh Creek Basin 70.0 feet; thence northerly 300.0 feet to the point of beginning.

The land required for the sewer easement is shown upon a map presented by the President of the Borough of Brooklyn, dated August 20, 1915, and approved by the Board of Estimate and Apportionment on September 17, 1915. It is located in Block 8158-A, Section 24, and Block 4364, Section 14, on the Land Map of the County of Kings.

The Board of Estimate and Apportionment by a resolution adopted on the 31st day of March, 1916, determined that the entire cost and expense of this proceeding shall be borne and paid by The City of New York.

Dated, New York, June 19, 1916.
LAMAR HARDY, Corporation Counsel,
Municipal Building, Borough of Manhattan, City of New York. j19,29

In the Matter of the Application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of 79TH STREET (Genesee Street), from Liberty avenue to Wortman avenue, and 80TH STREET (Hudson Street), from Atlantic avenue to Liberty avenue, in the 4th Ward, Borough of Queens, City of New York.

NOTICE IS HEREBY GIVEN THAT BY AN order of the Supreme Court of the State of New York, dated the 6th day of June, 1916, and duly entered and filed in the office of the Clerk of the County of Queens on the 9th day of June, 1916, the application of the City of New York to have the compensation which should justly be made to the respective owners of the real property proposed to be taken in the above entitled proceeding ascertained and determined by the Supreme Court without a jury, and the cost of such improvement assessed by the Court, in accordance with the resolutions adopted by the Board of Estimate and Apportionment on the 25th day of June, 1915, and the 23rd day of December, 1915, was granted.

NOTICE IS FURTHER GIVEN THAT, pursuant to Section 1000 of the Greater New York Charter, as amended by Chapter 606 of the Laws of 1915, the map or survey of the land to be acquired in this proceeding has been duly filed in the office of the Clerk of the County of Queens and each and every party and person interested in the real property to be taken for the purpose of opening and extending of 79TH STREET (Genesee Street), from Liberty avenue to Wortman avenue, and 80TH STREET (Hudson Street), from Atlantic avenue to Liberty avenue, in the 4th Ward, Borough of Queens, City of New York, having any claim or demand on account thereof, is hereby required to file his claim, duly verified, describing the real property which the claimant owns or in which he is interested, and his post office address, with the Clerk of the County of Queens on or before the 30th day of June, 1916, and to serve on the Corporation Counsel of the City of New York, at his office in the Municipal Building, Court House Square, Long Island City, in the Borough of Queens, in the City of New York, on or before the said 30th day of June, 1916, a copy of such verified claim.

Dated, New York, June 19, 1916.
LAMAR HARDY, Corporation Counsel,
Municipal Building, Borough of Manhattan, City of New York. j19,29

DEPARTMENT OF HEALTH.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Board of Health of the Department of Health, Centre and Walker sts., Manhattan, until 10:30 a. m., on

WEDNESDAY, JULY 5, 1916.

FOR FURNISHING ALL THE LABOR, MATERIALS AND EQUIPMENT NECESSARY OR REQUIRED TO DITCH AND DRAIN CERTAIN AREAS IN THE SALT MARSH LANDS LOCATED WITHIN THE BOROUGH OF THE BRONX, IN THE CITY OF NEW YORK.

The time for the completion of the work and the full performance of the contract will be sixty (60) consecutive working days.

No bond will be required with the bid, but will be required upon awarding of the contract, in an amount equal to 50 per cent. of the contract. The bid, however, must be accompanied by a deposit of an amount of not less than 5 per cent. of the amount of the security required for the faithful performance of the contract.

Bids will be compared and the contract awarded to the lowest bidder on the entire contract.

Maps may be seen and blank forms for the above work and further information may be obtained at the office of the Chief Clerk of the Department of Health, Centre and Walker sts., Manhattan.

HAVEN EMERSON, M. D., President;
EUGENE W. SCHEFFER, Secretary. j22,jy5
Dated June 22, 1916.

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

NOTICE TO BIDDERS AT SALES OF OLD BUILDINGS, ETC.

TERMS AND CONDITIONS UNDER WHICH BUILDINGS, ETC., WILL BE SOLD FOR REMOVAL FROM CITY PROPERTY.

THE BUILDINGS AND APPURTENANCES thereto will be sold to the highest bidder, who must pay cash or certified check, drawn to the order of the Comptroller of The City of New York, and must also give a certified check or cash in half the amount of the purchase price as security for the faithful performance of the terms and conditions of the sale. Where the amount of the purchase price does not equal or exceed the sum of \$50, the sum of \$50 shall be the amount of the security to be deposited. This security may at any time after the expiration of the contract period be applied by the City to the cost of completing any of the work required under the contract, but unfinished at the expiration of the contract period.

The purchaser shall not lease, occupy, cause or permit the building or buildings, etc., purchased by him to be used or occupied for any purpose other than that of their speedy removal nor shall he collect any rental or other revenue for the use of either the land or the buildings, etc., situated thereon. The breach of either or any of these conditions shall forthwith void the sale and cause immediate forfeiture of the purchase money and the security deposited for the faithful performance of the conditions of the sale.

The placing therein or permitting the occupancy of any such buildings by any tenant free, for rent or otherwise, excepting the necessary watchmen or the workmen engaged in the actual demolition thereof, shall of itself be a breach of the above conditions of sale.

The sale will be subject to the condition of the property on date of delivery thereof to the purchaser. The City of New York will not be responsible for any change or loss which may occur in the condition of the buildings, or their appurtenances between the time of the sale thereof and the time of delivering possession to the purchaser, after being properly vacated of all tenants. The sale and delivery to purchaser will be made as one together with the circumstances of vacating the structures of their tenants will permit.

All the material of the buildings, sheds, walks, structures and cellars of whatsoever nature, with their exterior and interior fixtures, appurtenances and foundations of all kinds, except the exterior walls of the buildings and their foundations and the sidewalks and curb in front of said buildings, extending within the described area, shall be torn down and removed from the premises. None of the dirt, debris or waste resulting from demolition shall be allowed to remain on the premises, except old mortar or plaster only, which may be left, but not higher at any point than two feet below the curb opposite that point. The exterior walls and their foundations shall be taken down only to a plane whose elevation shall be the level of the curb in front of the building. Where there is no curb the elevation of the surrounding ground shall be considered curb level. All wells, cesspools, sinks, etc., existing on the property must be filled to the level of the surrounding ground with clean earth.

The purchaser at the sale shall also withdraw and remove all abandoned water taps and old service mains, and in place thereof cause to be inserted a brass plug in the main water pipe in the street, in compliance with the rules and regulations of the Department of Water Supply, Gas and Electricity, and furnish the Department of Finance with a certificate from the Department of Water Supply, Gas and Electricity that this has been performed.

The purchaser at the sale shall also remove all house sewer connections to the main sewer in the street and the openings of the main sewer in street shall be properly closed in compliance with the directions of the Bureau of Sewers in the Borough in which the buildings are situated, and furnish the Department of Finance with a certificate from the Bureau of Sewers that the work has been properly performed.

The permit for all openings in the street to be obtained by and at the expense of the purchaser of the building.

Failure to remove said buildings, appurtenances, or any part thereof, within thirty days from the day of possession will work forfeiture of ownership of such buildings, appurtenances or portions as shall then be left standing, together with all moneys paid by said purchaser on account thereof at the time of the sale, and the bidder's assent to the above conditions being understood to be implied by the act of bidding, and The City of New York will, without notice to the purchaser, cause the same to be removed, and the cost and expense thereof charged against the security above mentioned.

The work of removal must be carried on in every respect in a thorough and workmanlike manner, and must be completed within thirty days from the day of possession, and the successful bidder will provide and furnish all materials of labor and machinery necessary thereto, and will place proper and sufficient guards and fences and warning signs by day and night for the prevention of accidents, and will indemnify and save harmless The City of New York, its officers, agents and servants, and each of them, against any and all suits and actions, claims and demands of every name and description brought against it, them or any of them, and against and from all damage and costs to which it, they or any of them be put by reason of injury to the person or property of another, resulting from negligence or carelessness in the performance of the work, or in guarding the same, or from any improper or defective materials or machinery, implements or appliances used in the removal of said buildings.

Where party walls are found to exist between buildings purchased by different bidders, the materials of said party walls shall be understood to be equally divided between the separate purchasers.

Party walls and fences, when existing against adjacent property not sold, shall not be taken down. All furrings, plaster, chimneys, projecting bricks, etc., on the faces of such party walls are to be taken down and removed. The walls shall be made permanently self-supporting, beams, holes, etc., bricked up, and the wall pointed and made to exclude wind and rain and present a clean exterior. The roofs and adjacent buildings shall be properly flashed and painted and made watertight where they have been disturbed by the operations of the Contractor.

"No buildings, parts of buildings, fixtures or machinery sold for removal under these terms and conditions shall in any case be re-located or re-erected within the lines of any proposed street or other public improvement, and if any such buildings, parts of buildings, fixtures or machinery, etc., shall be re-located or re-erected within the lines of any proposed street or other public improvement, title thereto shall thereupon become vested in The City of New York and a resale at public or private sale may be made in the same manner as if no prior sale thereof had been made."

The Comptroller of The City of New York reserves the right on the day of sale to withdraw from sale any of the buildings, parts of buildings and machinery included therein, or to reject any and all bids; and be it further

Resolved, That while the said sale is held under the supervision of the Commissioners of the Sinking Fund, the Comptroller is authorized to cause the sale to be advertised and to direct the sale thereof as financial officer of the City.

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, bureau or officers, 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, and 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.

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 or corporate stock or certificates of indebtedness of any nature issued by The City of New York, which the Comptroller shall approve as of equal value with the security required in the advertisement to the amount of not less than three nor more than five per centum of the amount of the bond required, as provided in section 420 of the Greater New York Charter.

The amount shall be as specified in the proposals or instructions to bidders and shall not be in excess of 5 per cent.

The certified check or money should not be inclosed 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 of 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.