

# THE CITY RECORD.

## OFFICIAL JOURNAL.

VOL. XXIV.

NEW YORK, FRIDAY, APRIL 17, 1896.

NUMBER 6,978.

### DEPARTMENT OF PUBLIC WORKS.

Report for the Quarter and Year ending December 31, 1895.

DEPARTMENT OF PUBLIC WORKS, COMMISSIONER'S OFFICE, NEW YORK, February 20, 1896.

The Honorable WILLIAM L. STRONG, Mayor:

DEAR SIR—In compliance with section 49 of the New York City Consolidation Act of 1882, I present herewith my report of the transactions of this Department for the quarter ending December 31, 1895, and a summary for the year:

#### SUMMARY OF EXPENDITURES FOR THE QUARTER.

(Being the amount of requisitions drawn on the Comptroller.)	
On account of appropriations raised by taxation (Consolidation Act, section 189)....	\$762,102 25
On account of Local Improvement Fund for Street Improvements (Consolidation Act, sections 144 and 150)....	285,477 93
On account of Funded Debt for Extension and Improvement of the Water Supply, (Consolidation Act, section 141)....	146,776 58
On account of Additional Croton Water Fund for Sanitary Protection of Water Supply (chapter 189, Laws of 1893)....	58,723 21
On account of Fund for Additional High-service Works (chapter 38, Laws of 1892)....	318,462 93
On account of Repavement Fund (chapter 346, Laws of 1889; chapter 35, Laws of 1892, and chapter 475, Laws of 1895)....	145,742 58
On account of Criminal Court-house Fund (chapter 371, Laws of 1887)....	5,307 05
For construction of Seventh District Police Court-house (chapter 748, Laws of 1894)....	39,494 25
For Construction of Public Building in Crotona Park (chapter 248, Laws of 1894)....	13,471 97
On account of Fund for Harlem River Bridge at Third avenue (chapter 413, Laws of 1892)....	70,583 49
On account of Fund for Harlem River Bridge at First and Willis avenues (chapter 147, Laws of 1894)....	1,399 98
On account of paving Avenue A (chapter 516, Laws of 1894)....	66,709 77
On account of Fire-hydrant Stock (chapter 510, Laws of 1894)....	13,816 46
On account of Revenue Bond Fund, Appellate Court (chapter 553, Laws of 1895)....	385 00
On account of Special Fund for Restoring Pavements (Revised Ordinances of 1880, sections 354 to 357)....	36,914 86
On account of Revenue Bonds for Water-meters (Consolidation Act, sections 161 and 252)....	2,124 48
Total.....	\$1,967,492 79

#### SUMMARY STATEMENT OF CONTRACTS.

Contracts Entered Into during the Quarter.	Estimated Cost.	Contracts Completed during the Quarter.	Actual Cost.
23 sewer and basin contracts.....	\$101,147 75	16 sewer and basin contracts.....	\$64,158 87
8 regulating, grading, curbing and flagging contracts.....	8,663 46	10 regulating, grading, curbing and flagging contracts.....	44,128 39
29 paving and repaving contracts.....	532,228 08	29 paving and repaving contracts.....	284,558 34
3 contracts for fencing vacant lots.....	113 46	3 contracts for fencing vacant lots.....	3,296 46
1 contract for laying water-mains.....	3,852 00	5 contracts for water-mains.....	164,835 15
3 miscellaneous contracts.....	20,750 00	12 miscellaneous contracts.....	75,478 00
67 contracts; total estimated cost.....	\$669,154 75	74 contracts; total cost.....	\$636,455 21

#### BUREAU OF CHIEF ENGINEER OF THE CROTON AQUEDUCT.

The draught upon water stored in the reservoirs and lakes in the Croton water-shed was continuous during the quarter to supply the deficiency in the natural flow of the river, and amounted to 6,800,000,000 gallons, or an average of 74,000,000 gallons per day.

For the supply from the Bronx river water-shed, 450,000,000 gallons of water were drawn from the two reservoirs, averaging 4,891,000 gallons per day.

The rainfall in the Croton water-shed was 12.32 inches, and in the Bronx valley 12.69 inches.

Fair progress has been made in the construction of Reservoir "A" on the Muscoot river, and unless very severe weather intervenes it will be completed this year.

The new Reservoir "D," which has a capacity of 10,000,000,000 gallons, is now ready for the reception of stored water, and its outlet will be closed in order to fill it.

The work on the tunnel and open channel from the Byram river, at a point in Connecticut near the State line, to the Bronx river, has sufficiently progressed to allow the flow of water from the Byram into the Kensico reservoir at any time.

The land for a reservoir at Byram Pond has been acquired, and the plans for its construction are nearly ready. The contract for the work may be let in the spring.

The usual work of maintenance and repairs has been done on the two aqueducts and the Bronx river conduit. Last October the New Aqueduct was closed for a short period, and its interior was thoroughly examined and cleansed. New screens were placed at the inlet at Croton Dam.

In prosecuting the measures for sanitary protection and purification of the water supply, additional lands bordering on streams have been acquired at Mount Kisco, Brewsters and Carmel; legal proceedings are pending for taking lands at Towners, Patterson, on the east branch of the Croton, on Muscoot river, on Bear Gutten Creek and at Byram Pond; surveys and searches of title are in progress for land required to protect the water in Lakes Mahopac and Kirk, Mud Pond, Mount Kisco river, and the Bronx and Byram rivers. The plant for the disinfection and disposal of sewage in the Villages of Brewsters and Mount Kisco is in constant operation.

During the quarter the water service has been extended and improved by the laying of 2,786 feet of 36-inch mains, 8,615 feet of 12-inch mains, and 25,970 feet of 6-inch mains—total, 37,371 feet, with 95 new stop-cocks and 164 new fire-hydrants; 789 new taps for service pipes to houses were set, and 400 additional water-meters were placed to check waste.

The legal proceedings, through Commissioners of Appraisal, for the acquisition of land for the approaches to the new Harlem River Bridge at Third avenue are still pending and delaying the construction of the abutments and approaches. The river piers have all been completed and the iron superstructure for the draw is being put in place.

An amended map of land required for the bridge over the Harlem river, between First and Willis avenues, has been placed in the hands of the Commissioners of Appraisal. The detail plans for the bridge are in preparation.

#### BUREAU OF WATER PURVEYOR.

An average force of 172 pavers and ramblers, 189 laborers, 62 carts and 2 trucks has been employed in the repair of stone pavements. The area of pavement relaid is 74,445 square yards, including 12,003 square yards done by contract. Under the appropriation for pavement repairs, the carriageway of Columbus avenue, from Sixty-fifth to Seventy-seventh street, was relaid with new granite blocks.

Under the supervision of the General Inspector and the inspectors under him, 6,557 openings in pavements were made and repaved by corporations and individuals in laying and repairing gas-mains, electric subways, steam pipes and their connections with houses; 20.71 miles of new gas-mains, 14.72 miles of new electric subways and conduits, and 7,491 lineal feet of double rail-tracks were laid. The railroad companies relaid 5,900 square yards of granite-block pavement, 3,515 square yards of macadam pavement, and 760 square yards of asphalt pavement.

The following new pavements were laid:

	SQUARE YARDS, GRANITE.	SQUARE YARDS, ASPHALT.
Under appropriations for repaving.....	18,741	101,247
By assessment, within land grants.....	5,656	.....
By assessment, on new streets.....	7,144	11,611

Totals.....

31,541

112,858

Total length, 8.76 miles.

Until the close of the year 1895 the repairs of water-mains, stop-cocks and fire-hydrants have been under the charge of this Bureau but are now transferred to the Bureau, of Chief Engineer of the Croton Aqueduct, where they properly belong. The five companies of the Repair Force numbered 44 mechanics, 103 laborers, 18 carts and 1 truck, and performed the following work: 285 new hydrants placed, 3,675 fire-hydrants repaired, 510 new hydrant-boxes placed, 2,439 lineal feet new water-mains laid, 498 leaks in water-mains repaired, 404 stop-cocks repaired, 158 new stop-cock boxes placed, 272 taps in mains shut off, 4,891 square feet flagging relaid, 1,515 square yards pavement relaid.

In the regulating and grading of streets, flagging and curbing sidewalks and fencing vacant lots 18 contracts were completed and 10 contracts were in progress at the close of the quarter. The following are the aggregate quantities of work done on all the contracts: 35,622 cubic yards earth excavated, 45,185 cubic yards rock excavated, 52,648 cubic yards filling placed in

embankments, 17,183 lineal feet new curb-stones set, 1,527 lineal feet curb-stones reset, 77,509 square feet new flagging laid, 12,380 square feet old flagging relaid, 2,145 lineal feet iron railing placed, 217 lineal feet fences built.

#### OFFICE OF ENGINEER IN CHARGE OF SEWERS.

During the quarter 26 contracts for new sewers and six contracts for new receiving-basins were completed. Under the sewer contracts 15,001 lineal feet of new sewers and 9 basins were built, and under the basin contracts 15 new basins were built.

The locations of these improvements are given in detail in the Engineer's report hereto attached.

The following are the principal items of work done in repairing and cleaning sewers and basins: 2,023 receiving-basins cleaned, 28,346 lineal feet of sewers cleaned, 95,543 lineal feet of sewers examined, 316 lineal feet of sewer and culvert rebuilt, 3 new manholes built, 29 receiving-basins repaired, 88 manhole-heads reset, 16 basin-heads reset, 50 new manhole-heads and 140 covers placed, 8 new basin-heads and 27 covers placed, 56 basin-heads and grates placed, 4,081 cart loads sewer deposits removed.

#### BUREAU OF STREETS AND ROADS.

In the repairs and maintenance of the 22 miles of macadam roadways under the charge of this Bureau 15,570 square yards of macadam pavements were repaired and resurfaced; 11,425 square yards of roadways were regraded; 7,930 square yards of roadway were newly covered with gravel; 2,576 square yards of gravel roadway were repaired. The Bureau also performs the cleaning of the roadways and gutters on all the macadamized streets and roads, which is a very important part of its work. The quantity of dirt and refuse removed is 4,819 truck loads. The materials used in repairs are: 615 truck loads of broken stone, 293 truck loads of gravel, 40 truck loads of screenings, 391 truck loads of earth, 132 truck loads of sand.

In the care and repair of about 50 miles of unpaved streets 22,000 square yards of roadway were regraded, and six miles of gutters opened and graded. The following materials were used: 750 truck-loads of stone, 2,530 truck-loads of earth, 224 truck-loads of broken stone for surface material. The storms during the quarter caused 65 large wash-outs in unpaved roadways and ten in macadam roads, which were promptly repaired.

#### BUREAU OF LAMPS AND GAS.

The following additions and changes were made during the quarter in the service of lighting the public streets, parks, bridges and docks: 379 new gas-lamps placed and lighted, 2 new electric-lamps placed and lighted, 67 old gas-lamps relighted, 57 gas-lamps temporarily discontinued, 125 naphtha-lamps discontinued, 1 electric-lamp discontinued.

At the close of the quarter there were in use 25,492 gas-lamps, 2,752 electric-lamps and 233 naphtha lamps.

#### BUREAU OF REPAIRS AND SUPPLIES.

The contracts for electrical clock service, for additional furniture and alterations, for electric-light system, and for safes and burglar-proof files in the Criminal Court Building, which were heretofore made by authority of the Commissioners of the Sinking Fund, have been satisfactorily completed.

The Brown Stone Building (Old Criminal Court-house) has been thoroughly overhauled and provided with new steam plant, and quarters made ready for the Sheriff's offices.

In the City Hall the tile floor in the east corridor and entrance has been thoroughly repaired.

Extensive repairs to roofs, flooring, etc., were made in Washington, West Washington, Fulton, Clinton, Centre and Tompkins Markets.

The details of repairs in these and other public buildings under the charge of the Department will be found in the report of the Superintendent of Repairs and Supplies, which also states the more important articles and supplies furnished the various departments, offices and courts.

The mason-work and a large part of the interior finish of the new court-house for the Seventh District Police Court and the Eleventh Judicial District Court, in West Fifty-third and Fifty-fourth streets, are completed.

The work in the public building in Crotona Park (Twenty-third and Twenty-fourth Wards) has been retarded in consequence of numerous changes from and additions to the original plan and contract; the plastering is nearly finished, and other interior work is well advanced.

The 15 free floating-baths are safely stored in winter quarters at the foot of Henry street, South Brooklyn, and are undergoing the annual repairs.

#### BUREAU OF INCUMBRANCES.

The following is a summary of the operations of this Bureau for the quarter: 882 complaints of obstructions received and attended to, 189 seizures and removals of obstructions made, 1,799 permits issued to place building material on streets, 256 miscellaneous permits issued, 3 permits issued to cut down shade trees, 53 permits issued for temporary sheds over sidewalks in front of buildings in course of erection, 59 cart loads of refuse material removed from streets, 122 dead and dangerous shade trees removed.

#### BUREAU OF WATER REGISTER.

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

For water rent on houses.....	\$628,250 50
For penalties on water rents.....	6,897 00
For water supply to shipping and for building purposes.....	37,749 65
For permits to tap water-mains.....	3,798 00
Total.....	\$676,695 15

#### MISCELLANEOUS REVENUE.

The Department also collected and paid into the City Treasury the following amounts:

For sewer permits.....	\$27,539 25	For use of road rollers.....	\$112 00
For vault permits.....	26,026 88	For restoring pavements over street openings.....	33,022 25
For permits for temporary sheds over sidewalks.....	265 00	For furnishing and setting water-meters...	945 24
For redemption of street obstructions.....	169 75	Total.....	\$90,874 72
For work and materials furnished citizens.....	482 75		
For articles sold at auction.....	311 60		

#### REVIEW FOR THE YEAR.

#### SUMMARY OF EXPENDITURES.

On account of Annual Appropriations.....</td
--

ceded draught of 22,450,000,000 gallons on the water held in reserve in storage reservoirs and lakes, an average of over 61,500,000 gallons for each day of the year, to make up the deficiency in the natural flow of the Croton river for the city's supply. The storage capacity, however, was equal to the demand, and on December 31 there was still a reserve of 6,750,000,000 gallons of stored water.

For the supply from the Bronx river 2,140,000,000 gallons of stored water were drawn, being an average of 6,000,000 gallons per day.

The average daily supply distributed and consumed in the city was 184,000,000 gallons. With the advent of cold weather in December it rose to 193,000,000 gallons, owing to the old and pernicious habit of house-owners and tenants keeping the water running from faucets day and night to prevent freezing in the service pipes, instead of protecting the pipes by legitimate means at their own expense. The recurrence of this annual waste causes the pressures and elevation of delivery in houses to fall, resulting in numerous complaints and unjust criticisms of the management of the water supply.

In a preceding part of the report reference is made to the measures applied to protect the water supply from pollution at its sources. They included the acquisition during the year, by direct purchase or by appraisement, of 136 separate parcels of land on the borders of streams, reservoirs and lakes, at a total cost of \$548,083.

The demands for the extension of the water service into new streets and districts and for increasing the capacity and volume of distribution in the central and lower part of the city, largely exceed the limit of annual expenditure, \$250,000, fixed by the Law of 1875, now a part of the Consolidation Act, for laying additional water-mains. During the year the following additional mains were laid: 48-inch mains, 451 lineal feet; 36-inch mains, 16,940 lineal feet; 30-inch mains, 461 lineal feet; 20-inch mains, 4,567 lineal feet; 12-inch mains, 33,537 lineal feet; 6-inch mains, 82,784 lineal feet; 4-inch mains, 919 lineal feet—Total, 139,659 lineal feet, or 26.45 miles.

In connection with these mains 318 new stop-cocks and 409 new fire-hydrants were placed.

The distributing system now includes 746.59 miles of water-mains, 7,893 stop-cocks and 9,855 fire-hydrants.

There is urgent necessity for increasing the volume of supply and pressure of water below Fifty-ninth street, where the transformations of recent years in the character, dimensions and occupancy of buildings have constantly added to the demands on the water service. To effect this it will be necessary to expend about \$1,000,000 for several new lines of large water-mains, which will have to be provided for by additional legislative action and appropriation.

In the high-service districts, which comprise all the sections of the city which are above the elevation at which the water is delivered by gravity or natural pressure, the increase in population and buildings has been proportionately much greater than in any other part of Manhattan Island. In the meantime the capacity of the pumping engines for this high service has remained stationary since the last additions were made to it in 1888. They now furnish an average daily supply of 27,000,000 gallons to 20,800 houses, at least half of which are flat houses, apartment houses or hotels, with five or more families in each. The increased use of water has constantly diminished the pressure or elevation of delivery during the day, but the high pressure is resumed at night, of which consumers can avail themselves by using and filling tanks on the upper stories or roofs of their houses.

The construction of the new high service works on the west bank of the Harlem river, between Highbridge and Washington Bridge, which will duplicate the present pumping capacity, is progressing satisfactorily, and they will be ready for operation by next June.

For the water service to houses throughout the city, 2,898 additional taps have been put in the distributing mains, and 2,001 additional water meters have been placed to check waste and enforce payment for water wasted. The total number of meters now in use is 32,329.

#### STREET PAVEMENTS.

*The Following is the Area of New Pavements Laid During the Year.*

	GRANITE, SQUARE YARDS.	ASPHALT, SQUARE YARDS.	MACADAM, SQUARE YARDS.
On account of annual appropriation for repaving.....	\$2,239 88	.....	.....
On account of legislative appropriations for repaving.....	18,741 49	\$108,967 40	.....
On account of Assessment Fund—within land grants.....	39,010 88	.....	.....
On account of Assessment Fund—on new streets.....	29,274 79	21,431 02	\$3,908 70
<b>Totals .....</b>	<b>\$89,267 04</b>	<b>\$130,398 42</b>	<b>\$3,908 70</b>

Excavations in pavements were made under 21,257 separate permits for connections with sewers, water-mains and gas-mains, and for the laying of 49.46 miles of gas-mains, 22.91 miles of electric subways and ducts, and 2½ miles of rail tracks. To these are to be added the excavations for the laying and repairs of water-mains, the placing and repairs of hydrants, and the construction, alteration and repairs of sewers. By a system of rigid inspection and the strict enforcement of rules and conditions of permits, the Department has succeeded in making large improvement in the manner of restoring the pavements disturbed by private corporations and individuals. The frequency of these excavations will, however, always be a source of inconvenience and discomfort to the public and an obstacle to the proper maintenance of the pavements.

When Commissioner Brookfield took office in February, 1895, the asphalt pavement which had been laid on Eighth avenue, from Thirteenth to Fifty-ninth street, in 1889-90, was in a very dilapidated condition. The contractor had defaulted in the obligation to keep the pavement in good condition for fifteen years, and the preceding administration had expended for repairs the whole amount of 30 per cent. retained under the contract. No action or means for further repairs could be obtained from the sureties on the contract. The disintegration of the pavement was progressing rapidly and prompt action was necessary to save it. This has been done by making a contract, dated May 24, 1895, with another asphalt paving company to place the pavement in good condition without delay and to keep it so for the remainder of the fifteen years. It is now in fair condition, to the great relief of the residents and business people along the avenue and the public generally. The new contract does not impair the City's claim against the sureties on the first contract.

Under a judicious amendment of the specifications for asphalt pavement, which enlarges the field of competition for contracts, the price per square yard, with concrete foundation, and five years' guarantee of maintenance, has been reduced to \$2.84, while the average cost of granite on concrete, with only six months' guarantee, is \$2.87. The asphalt is, therefore, now considerably cheaper than the granite.

There are still many miles of streets greatly in need of repaving. The Water Purveyor, in his report hereto annexed, mentions the following, with approximate estimate of cost: First avenue, from Houston to One Hundred and Ninth street, \$663,200; Second avenue, from Twenty-second street to Harlem river, \$552,000; Sixth avenue, from Twenty-third to Fifty-ninth street, \$187,000; Seventh avenue, from Greenwich to Fifty-ninth street, \$345,000; Ninth avenue, from Fourteenth to Fifty-ninth street, \$332,000; streets in tenement districts, \$2,450,000; streets around schools and hospitals, \$1,371,000—Total, \$5,900,200.

At an early day I will place before you, as Chairman of the Board of Estimate and Apportionment, a report on the repaving work laid out for the present year.

#### REGULATING AND GRADING STREETS.

Among the more important regulating and grading works completed last year are: One Hundred and Fifteenth and One Hundred and Fifty-first streets, from Bradhurst avenue to the Harlem river; St. Nicholas terrace, from One Hundred and Thirtieth street to Convent avenue; One Hundred and Seventy-third and One Hundred and Seventy-ninth streets, from Amsterdam avenue to Kingsbridge road; and College place (now West Broadway) as widened and extended, from Chambers to Dey street.

On January 1, 1895, there were 17 unfinished contracts for grading streets and for flagging and curbing sidewalks; 93 new contracts were made during the year and 81 contracts were completed.

The following are the aggregate quantities of work done under all the contracts: 114,665 cubic yards earth excavated, 118,235 cubic yards rock excavated, 231,742 cubic yards filling placed in embankments, 43,008 lineal feet new curb stone set, 7,127 lineal feet old curb stone reset, 231,453 square feet new flagging laid, 47,790 square feet old flagging relaid.

Much improvement has been effected in the condition of sidewalks throughout the city by greater diligence in serving notices on property owners who fail to comply with the legal obligation of keeping their sidewalks properly flagged. The fact that in most cases the notices are cheerfully complied with, proves that proper vigilance and energy on the part of the officials having charge of the matter will always produce good results, while indifference or negligence will induce neglect on the part of the owners.

#### SEWERAGE AND DRAINAGE.

During the year 41,455 lineal feet (7.84 miles) of additional sewers, and 68 receiving-basins were built at a total cost of \$398,306.20. There are now under contract 26,670 lineal feet of sewers and culverts at an estimated cost of \$211,002. Plans are in preparation for 3½ miles of sewers to be put under contract within a short time. The sewer system now comprises 468½ miles of sewers and culverts, with 5,549 receiving-basins.

The most important work completed last year is the sewer in Kingsbridge road, from Naegle avenue to Dyckman street, and through that street to the Hudson river. It is 4,300 feet long and drains an area of 356 acres. Other important works completed during the year are specified in the report of the Engineer in Charge of Sewers.

Alterations and improvements to sewers in the lower part of the city, especially along and near the water front, are constantly in progress. A new outlet is about to be built at the foot of West Twenty-third street, to improve the drainage of the district and discharge the sewage in the tidal currents.

There are still about fifteen miles of streets in the compactly built up parts of the city which have no public sewers. The houses are drained into sewers in adjacent streets by drains which are out of the reach of the force employed in repairing and cleaning sewers. This constitutes a constant menace to the public health and should be remedied as speedily as practicable. The Health Department applies the remedy where new buildings are being erected, by ordering direct sewer connections, and consequently the building of main sewers on the immediate frontage. In this manner the building of three sections of sewer on lower Fifth avenue was brought about last year, viz.: between Ninth and Tenth streets, between Sixteenth and Seventeenth streets, and between Seventeenth and Eighteenth streets. The houses on these blocks were hitherto connected with sewers in the side streets.

The old pipe sewers which were extensively placed during the years 1868-72 have been broken in many places, and in others have become inadequate in size and capacity for the present demands for drainage. A contract is now in progress for replacing one of these broken pipe sewers by one of brick on Fifth avenue, from Ninetieth to Ninety-eighth street.

The Department has always experienced great difficulty in its efforts to prevent the discharge of steam and hot water into sewers. The city ordinance provides a penalty of fifty dollars for each offence of this kind, and the Department may cut off the sewer connections where it is persisted in. The penalty can only be collected, however, by suits in the Judicial District Courts, which is a very slow process with uncertain results. The alternative of cutting off sewer connections is an extreme measure of last resort, as it may operate to the injury of unoffending tenants, instead of simply punishing the offender. The Department has very recently obtained the co-operation of the Police Department to put in practice a new method of reaching violators of the ordinance. Where steam is discharged into a sewer from a steam plant, it can be done only with the knowledge, connivance or guilty action of the engineer in charge. Every steam engineer who wishes to practice his profession in this city must first qualify by examination in the Bureau of Inspection of Steam Boilers in the Police Department and obtain a license. That Department is now notified of every case of violation, and the engineer must show cause why his license should not be revoked. If the fault is in the steam plant, and the owner refuses or neglects to provide the necessary appliances, the engineer can so prove. If not, he is the guilty party, and forfeits his license. It is confidently expected that this new measure will produce good results in abating an evil which is a standing menace to the health of the people.

#### STREET LIGHTING.

During the year the public lamp service has been extended to 11½ miles of new streets in the upper section of the city, nearly all north of the Harlem river. There are now 570½ miles of streets, 2½ miles of bridges, ¾ of a mile of piers and 77 acres of public parks and places lighted by public lamps, exclusive of the territory lately annexed to the city.

The annexed territory embraces the Villages of Wakefield, Eastchester and Williamsbridge, the Town of Westchester and portions of the Towns of Eastchester and Pelham.

There are 53 miles of streets and roads lighted by 377 naphtha lamps and 565 electric lamps, under contracts made by the village and town authorities prior to the annexation, and terminating at various periods, ranging from one to five years beyond the date of annexation, June 6, 1895. On June 4, two days before the Annexation Act took effect, the Trustees of the Village of Williamsbridge made a five years' contract with a newly formed company, the Williamsbridge Gas and Electric Light Company. The Counsel to the Corporation is examining the several contracts in order to determine whether and how far they are binding on the City. The contract prices are \$21.33 and \$21.50 for naphtha lamps and \$125 for electric lamps each year.

#### PUBLIC BUILDINGS.

The Department has under its charge the following municipal buildings: The City Hall, the County Court-house, the old Criminal Court-house (Brownstone building), the Hall of Records, the Criminal Court Building, the Jefferson Market Court-house, the Harlem Court-house, the Fifth District Court-house (No. 154 Clinton street), the Seventh District Court-house in Fifty-seventh street, the County Jail in Ludlow street, the stables of the Street Cleaning Department, foot of East Sixteenth street; Fulton Market, Washington Market, Jefferson Market, West Washington Market, Tompkins Market, Catherine Market, Centre Market, Essex Market, Union Market, Clinton Market, and five armories of the National Guard, and several old buildings owned by the City and leased to tenants.

Of these the Hall of Records and Catherine, Essex, Union and Clinton Markets may be rated as totally unfit for their respective purposes—too old and too expensive to be kept in tenable condition. No private owner would think of continuing any one of them on the valuable grounds they occupy. Several of the others are also of unsuitable construction and require large annual expenditure for repairs.

The Department is also charged with the care, cleaning and interior repairs and furnishings of court-rooms and offices leased from private owners for the Fourth, Sixth, Eighth, Tenth and Eleventh Judicial District Courts and Municipal Offices in several buildings.

No details of expenditure for rentals, repairs, etc., are necessary to make it manifest that ultimate economy alone calls for the construction of a large municipal building which shall be creditable to this great city and furnish adequate accommodations for all the now scattered departments and offices.

During the past year the Department also had charge of the construction of a public building in Crotona Park, a Court-house in West Fifty-third and Fifty-fourth streets, several contracts for additional alterations and furnishings in the Criminal Court Building, and the contract for fitting up rooms and offices for the Appellate Division of the Supreme Court in the Constable Building. The latter contract has been completed, and the state of the others is mentioned in a preceding part of this report, under the head of Bureau of Repairs and Supplies.

#### STREET OBSTRUCTIONS.

The results accomplished by the Bureau of Incumbrances in clearing the streets and sidewalks of illegal obstructions show a marked improvement over those of preceding years. At the same time the expenditure for labor and services has been reduced from \$25,000 in 1894 to \$15,101.43 in 1895. This is largely accounted for in the one item of removal of rubbish from building operations and stone and earth from cellar excavations, which are left on streets by builders and contractors. In 1894 the Bureau expended \$11,774.65 for this purpose. Last year the same class of work was done at an expense of \$2,601.04, because the Superintendent and his Inspectors were more vigilant and energetic, and consequently more efficient, in compelling offenders to remove these obstructions at their own cost.

The obstructions from building material used in building operations have also been greatly reduced, although building has been carried on more extensively than in 1894. In 1895 7,335 permits were applied for and issued to builders as against 5,331 for 1894. This has been accomplished by abolishing the privilege, formerly included in the permits, to pile brick and stone on the streets, which had been perverted into the practice of making a storage place of the streets, and by compelling builders to keep within the limits and conditions of the permits.

The efforts of the Department and the Bureau of Incumbrances for further improvement in this direction are partially neutralized by the fact that the Department of Public Parks issues permits for the deposit of building materials on streets adjacent to parks, and the Commissioner of Street Improvements of the Twenty-third and Twenty-fourth Wards issues them for all streets in that territory. Yet the Bureau of Incumbrances is called upon to remove the illegal obstructions arising from the use or abuse of these permits. These two Departments also omit the requirement of a bond for proper restoration of pavement, which this Department exacts on all its permits for placing material on asphalt pavements. It is manifestly proper that the power to grant these privileges and the responsibility of correcting the results of their use or abuse should be united in one and the same department, and that the law should be amended to that effect.

On November 1, 1895, the new ordinance which requires builders to place protective sheds over sidewalks in front of buildings in course of erection to a height of five or more stories came into operation. During November and December 53 permits for such sheds were issued, and the sum of \$265 collected for the same.

#### SURVEYS AND MAPS FOR NEW STREETS.

Under the law which requires this Department to furnish all surveys and maps for laying out new streets, the following maps have been furnished:

To the Board of Street Opening and Improvement—For laying out a continuation of One Hundred and Sixty-fifth street west of the Boulevard Lafayette, and for closing a part of that street as now on the city map.

To the several Commissions of Estimate and Assessment—Draft damage and benefit maps for opening One Hundred and Thirty-fourth, One Hundred and Thirty-fifth and One Hundred and Thirty-sixth streets, between Amsterdam avenue and the Boulevard; One Hundred and Eighty-sixth and One Hundred and Eighty-eighth streets, between Amsterdam and Wadsworth avenues; Two Hundred and Fourth, Two Hundred and Fifth and Two Hundred and Sixth streets, from Amsterdam avenue to the Harlem river; Post avenue, between Amsterdam avenue and Dyckman street; Edgecombe road, between One Hundred and Fifty-fifth and One Hundred and Seventy-fifth streets; and for Elm street widening, from Chambers to Great Jones street; also final maps for opening One Hundred and Thirty-fourth street, between Amsterdam avenue and the Boulevard; One Hundred and Fifty-ninth, One Hundred and Sixtieth, One Hundred and Sixty-second, One Hundred and Sixty-fourth, One Hundred and Sixty-fifth and One Hundred and Sixty-seventh streets, from their present termini to Edgecombe road; One Hundred and Eightieth and One Hundred and Eighty-second streets, between Amsterdam avenue and Kingsbridge road; Ninth and Tenth avenues, between Two Hundred and First street and Kingsbridge road; Isham street and Sherman avenue, between Amsterdam avenue and Kingsbridge road; Exterior street, East river, between Sixty-fourth and Eighty-first streets.

To the Counsel to the Corporation—Rule maps and technical descriptions for opening One Hundred and Thirty-fifth and One Hundred and Thirty-sixth streets, between Amsterdam avenue and the Boulevard; One Hundred and Sixty-third, One Hundred and Sixty-seventh and One Hundred and Seventy-eighth streets, between Amsterdam avenue and Kingsbridge road; approaches for Harlem River bridge at First and Willis avenues.

The aggregate length of streets shown on the maps is 10.22 miles, and the area of assessment for benefit is 12,274 city lots.

## REVENUE FROM THE WATER SERVICE.

The Bureau of Water Register collected and paid into the City Treasury the following amounts:

Regular water rents.....	\$1,588,851 02
Penalties on regular rents.....	13,366 15
Water supplied by meter measurement.....	1,728,504 18
Water supplied to shipping and for building purposes.....	163,643 89
Water supplied for street sprinkling.....	28,415 00
Charges for permits to tap water-mains.....	13,330 50

Total cash collections.....	\$3,536,170 74
Add amount returned in arrears as liens on property.....	435,882 87

Total revenue.....	\$3,972,053 61
--------------------	----------------

DOCUMENT "A."—Showing Titles of Appropriations; Balances of 1894 on October 1, 1895; Requisitions on 1894 in Fourth Quarter of 1895, together with Transfers; Balances of 1894 on December 31, 1895; Appropriations, including Transfers of 1895; Requisitions of First Nine Months of 1895; Requisitions, Fourth Quarter of 1895; Balances on December 31, 1895; and the Titles and Conditions of the Trust and Special Accounts.

TITLES OF APPROPRIATIONS.	BALANCES OF 1894 ON OCTOBER 1, 1895.	REQUISITIONS AND TRANSFERS OF 1894, IN 4TH QUARTER, 1895.	BALANCES OF 1894 ON DECEMBER 31, 1895.	APPROPRIATIONS INCLUDING TRANSFERS OF 1895.	REQUISITIONS FIRST NINE MONTHS OF 1895.	REQUISITIONS, 4TH QUARTER, 1895.	TOTAL REQUISITIONS, 1895.	BALANCES ON DECEMBER 31, 1895.
Aqueduct—Repairs, Maintenance and Strengthening.....	\$79,743 91	\$738 50	\$79,055 42	\$214,337 00	\$134,593 00	\$49,223 37	\$183,816 46	\$30,320 54
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.....	9,107 29	9,107 29	27,830 00	18,742 71	5,749 57	24,492 57	33,375 43	1,085 50
Boring Examinations for Grading and Sewer Contracts.....	2,045 50	2,045 50	5,000 00	2,954 50	987 00	3,941 50	1,099 29	1,999 29
Boulevards, Roads and Avenues, Maintenance of, etc.....	16,948 58	16,948 58	110,000 00	73,051 42	34,949 29	108,000 71	1,000 00	1,000 00
Boulevards, Roads and Avenues, Maintenance of—Salaries.....	625 03	625 03	2,500 00	1,874 97	624 99	2,459 96	504	504
Bridges over Harlem Ship Canal—Maintenance of.....	3,569 60	3,569 60	8,000 00	4,439 49	2,062 46	7,092 86	907 14	907 14
Bronx River Works—Maintenance and Repairs.....	6,713 23	6,713 23	600 00	2,400 00	1,800 00	600 00	2,400 00	2,400 00
Bronx River Works—Maintenance and Repairs—Salaries.....	600 00	600 00	4,500 00	3,080 00	792 05	4,472 74	27 26	27 26
Contingencies—Department of Public Works.....	819 91	819 91	2,000 00	368 00	1,325 74	1,003 74	306 26	306 26
Flagging Sidewalks and Fencing Vacant Lots in front of City Property.....	1,632 00	1,632 00	18,000 00	0,983 23	3,066 13	13,049 35	4,950 64	4,950 64
Free Floating Baths.....	8,016 77	177 31	4,062 50	10,000 00	25,937 50	3,858 50	29,795 75	29,795 75
Free Floating Baths—Salaries.....	4,062 50	4,062 50	336,217 37	980,000 00	643,782 03	247,000 38	891,392 01	88,097 99
Lamps and Gas and Electric Lighting.....	1,066 56	1,066 56	8,168 58	82,766 72	216,000 00	125,664 70	80,076 41	205,135 11
Lamps and Gas and Electric Lighting—Salaries.....	5,076 23	5,076 23	2,100 00	2,100 00	19,710 00	14,933 77	4,998 23	19,632 00
Laying Croton Pipes.....	2,100 00	2,100 00	41,026 45	75,000 00	33,973 55	20,144 50	54,116 05	20,883 95
Laying Croton Pipes—Salaries.....	1,116 13	1,116 13	2,000 00	883 87	625 24	1,509 11	490 89	490 89
155th Street Viaduct—Maintenance and Repairs.....	.....	.....	.....	.....	.....	.....	.....	.....
Public Buildings—Construction and Repairs, including Special Armory Repairs.....	.....	.....	12,332 67	23,650 00	11,317 33	2,967 45	14,284 78	9,935 22
Public Drinking-hydrants.....	.....	.....	2,973 71	9,450 00	6,476 23	2,508 32	8,084 61	465 39
Public Drinking-hydrants—Salaries.....	.....	.....	51,353 06	212,850 00	151,481 70	50,871 25	202,352 95	10,497 55
Removing Obstructions in Streets and Avenues, including Rents, etc.....	.....	.....	141,617 81	272,275 00	150,557 19	83,256 15	233,913 34	38,311 66
Repairing and Renewal of Pipes, Stop-cocks, etc.....	.....	.....	9,874 26	9,874 26	11,850 74	6,183 02	18,033 76	3,691 24
Repairs and Renewal of Pavements and Regrading.....	.....	.....	15,995 62	18,000 00	2,004 38	4,800 00	6,804 38	11,193 62
Repairs and Renewal of Pavements—Repairing 8th avenue, from 13th to 59th street.....	.....	.....	250,000 00	249,082 67	250,000 00	.....	.....	250,000 00
Repaving Streets and Avenues—Salaries.....	7,936 75	7,936 75	7,936 75	13,000 00	5,000 25	1,849 26	6,912 51	6,087 49
Roads, Streets and Avenues Unpaved, etc.....	7,114 38	7,114 38	2,770 06	30,000 00	22,882 62	6,834 06	29,720 58	279 42
Salaries—Department of Public Works.....	25,076 02	25,076 02	2,236 88	8,400 00	60,698 08	22,339 78	92,038 76	3,636 24
Salaries—Engineers, Clerks, Inspectors, etc.....	20,252 76	20,252 76	20,252 76	60,150 00	49,897 24	15,312 21	65,209 45	940 55
Salaries—Consulting Engineers on Pavements, etc.....	1,250 06	1,250 06	1,250 06	5,000 00	3,749 94	1,249 08	4,999 92	4,999 92
Sewers—Repairing and Cleaning.....	32,043 33	31 87	32,911 46	100,000 00	67,056 67	28,133 74	95,100 41	4,809 59
Sewers—Repairing and Cleaning—Salaries.....	2,170 06	2,170 06	2,170 06	10,000 00	7,229 94	2,055 08	9,835 92	104 08
Sewerage System—Salaries.....	2,236 88	2,236 88	2,236 88	8,400 00	6,163 12	2,025 81	8,188 93	211 07
Street Improvements—For Surveying, etc.....	1,007 00	1,007 00	1,007 00	2,325 00	1,258 00	455 00	1,713 00	612 00
Supplies for and Cleaning Public Offices.....	70,085 47	70 10	70,015 37	180,325 00	110,239 53	44,819 56	154,819 56	25,505 44
Supplies for and Cleaning Public Offices—Salaries.....	9,777 70	9,777 70	9,777 70	32,975 00	23,197 30	8,330 54	31,527 84	3,147 16
Supplying Water to Shipping and for Building Purposes, etc.—Salaries.....	3,760 00	3,760 00	3,760 00	10,000 00	6,240 00	1,725 00	7,905 00	2,035 00
Surveys, Maps, etc., for Street Openings and New Streets—Salaries.....	1,500 03	1,500 03	1,500 03	7,600 00	5,669 97	1,899 99	7,599 96	54
Water Supply for Twenty-fourth Ward.....	2,378 24	2,378 24	2,378 24	7,500 00	5,121 76	.....	5,121 86	2,378 24
Water Supply for Twenty-fourth Ward—Salaries.....	451 61	451 61	451 61	1,200 00	748 39	.....	748 39	451 61
Totals.....	\$1,292,099 78	\$1,275 50	\$1,280,824 28	\$3,123,997 00	\$1,831,881 98	\$751,303 37	\$2,583,185 35	\$540,811 65

NOTE.—Requisitions drawn Fourth Quarter, 1895, on Liabilities of 1889—Repaving, chapter 346, Laws of 1889, \$1,586.76; same Account of 1890, \$93.84; on Liabilities of 1894—Aqueduct—Repairs, Maintenance, \$738.50; Bronx River Works, Maintenance and Repairs, \$1,171.81; Free Floating Baths, \$177.31; Laying Croton Pipes, \$8,168.58; Repaving Streets and Avenues, \$917.33; Sewers—Repairing and Cleaning, \$31.87; Supplies for and Cleaning Public Offices, \$70.10; Repaving, chapter 35, Laws of 1892, \$1,418.14; on Liabilities of 1895, Repaving, chapter 475, Laws of 1895, \$142,613.84.

The following Vouchers were cancelled—No. 954 of Requisition 26312, Supplies for and Cleaning Public Offices, \$458.13 and No. 666 of Requisition 26339, Additional Water Fund for \$3,243.78.

TITLES OF TRUST AND SPECIAL ACCOUNTS.	BALANCES FROM 1894, RETURNS TO ARREARS, AND RECEIPTS OF FIRST NINE MONTHS, 1895.	RECEIPTS, 4TH QUARTER, 1895.	TOTAL CREDITS OF 1894, ARREARS AND RECEIPTS, FOR 1895.	BALANCES ON JANUARY 1, 1895.	REQUISITIONS FIRST NINE MONTHS OF 1895.	REQUISITIONS, 4TH QUARTER OF 1895.	TOTAL REQUISITIONS OF 1895.	BALANCES, DECEMBER 31, 1
---------------------------------------	--	------------------------------	--	------------------------------	---	------------------------------------	-----------------------------	--------------------------

NATURE AND LOCATION OF WORK.		CONTRACTOR.	ESTIMATED COST.	MISCELLANEOUS CONTRACTS.		AMOUNT.
Paving Boulevard, east side, from 106th to 119th st.....	Barber Asphalt Paving Co.	\$53,300 00		Furnishing stop-cocks, hydrants, wooden hydrant boxes and cast-iron stop-cock boxes.....		\$12,165 00
Paving Madison ave., from 79th to 86th st.....	Sicilian Asphalt Paving Co.	24,158 00		Furnishing stop-cock, hydrants, wooden hydrant boxes, cast-iron stop-cock boxes and manhole heads.....		8,213 90
Paving 71st st., from 1st to 5th ave., except from ad to Madison ave.....	"	21,974 00		Furnishing cast-iron lamp-posts.....		3,560 34
Paving 107th st., from Lexington to Park ave.....	T. Hugh Boorman	4,075 86		Furnishing 6,000 lineal feet of bridge stone.....		3,205 65
Paving 166th st., from Amsterdam ave. to Kingsbridge rd.....	P. H. McCullagh	6,201 03		Furnishing cast-iron water-pipes, branch pipes and special castings.....		43,745 77
Paving 65th st., from 1st ave. to Avenue A.....	William P. Baird	5,137 92		Furnishing 140,000 gallons of No. 6 paving cement.....		9,626 71
Taking up and relaying pavement in Columbus ave., from 65th to 77th st.....	"	4,381 00		Furnishing 2,000 tons of washed gravel.....		2,886 80
Paving 120th st., from Amsterdam ave. to the Boulevard.....	Warren - Scharf Asphalt Paving Co.	14,807 50		Furnishing square street lamps.....		2,839 50
Paving West 4th st., from Macdougal st. to Broadway; Waverley pl., from 5th ave. to Broadway; Mercer st., from West 4th to 8th st.; University pl., from Waverley pl. to West 4th st.; and Washington pl., from Broadway to University pl.....	Warren - Scharf Asphalt Paving Co.	59,334 50		Furnishing cast-iron water-pipes, branch pipes and special castings.....		10,193 30
Paving 87th st., from 1st to 2d ave.....				Making alterations on third floor of Constable Building for use of Appellate Division of Supreme Court.....		5,800 00
Paving 16th st., from Broadway to 5th ave.....	Warren - Scharf Asphalt Paving Co.	7,863 00				
Paving 16th st., from 3d to 4th ave.....	Barber Asphalt Paving Co.	5,842 70				
Paving 23rd st., from 1st to 3d ave.....	"	9,475 00				
Paving 32d st., from 1st to Madison ave.....	"	15,028 50				
Paving 1st ave., from 26th to 28th st., and 28th st., from 1st ave. to Avenue A.....	"	30,408 00				
Paving 30th st., from Madison to 5th ave.; 43d st., from 5th ave. west to railroad track, and 44th st., from Madison to 5th ave.....	"	17,042 40				
Paving West Broadway, from Chambers to Vesey st.; from Vesey st. to westerly side of Greenwich st., at Dey st.....	Sicilian Asphalt Paving Co.	56,990 00				
Paving 85th st., from Boulevard to Amsterdam ave.....	Hastings Pavement Co.	4,416 40				
Paving 28th st., from 13th to 11th ave., land grant.....	P. H. McCullagh	6,701 40				
Paving 28th st., from 13th to 11th ave., land grant.....	"	7,682 78				
Paving 72d st., from 2d ave. to Avenue A, and Avenue A, from 57th to 59th st.....	California Asphalt Co.	31,887 50				
Paving Maiden lane, from Broadway to Pearl st.....	Sicilian Asphalt Paving Co.	16,592 00				
Paving rooth st., from 1st ave. to Harlem river.....	William P. Baird	7,132 03				
Laying crosswalks across 153d st., at west side of Boulevard.....	Joseph A. Devlin	77 36				
		\$532,228 08				
Fencing Vacant Lots Contracts.						
Fencing 71st st., west of West End ave.....	Robert C. Winters	\$43 96				
Fencing 98th st., south side, west of 2d ave.....	"	55 50				
Fencing in front of No. 113 West 68th st.....	"	14 00				
		\$113 46				
Laying Water-mains Contracts.						
Laying water-mains in St. Nicholas, Convent, Terrace View and South aves.; in 65th, 90th, 97th, 103th, 127th, 150th and Jefferson sts.; in Hamilton terrace and in Macomb's Dam rd.....	John Cornwell, Jr.	\$3,852 00				
Miscellaneous Contracts.						
For horizontal tubular boiler, smoke-stack, pipe work, new radiators, etc., in Brown-stone Building.....	Gillis & Geoghegan	\$7,300 00				
For making alterations on the third floor of the Constable Building for use of the Appellate Division of the Supreme Court.....	E. A. Thorpe & Son	5,800 00				
For roofing gate-house at Croton Dam and at 135th st. and Convent ave.....	R. H. Casey	7,050 00				
		\$20,150 00				
RECAPITULATION.						
23 Sewer and receiving-basin contracts.....		\$104,147 75				
8 Regulating, grading, curbing and flagging contracts.....		8,693 46				
29 Paving, repaving and crosswalk contracts.....		532,228 08				
3 Fencing vacant lots contracts.....		113 46				
1 Laying water-mains contract.....		3,852 00				
3 Miscellaneous contracts.....		20,150 00				
67 Contracts. Total.....		\$669,154 75				
Contracts Completed.						
NATURE OF WORK.	LOCATION OF WORK.	AMOUNT.				
Sewer and Receiving-basin Contracts.						
Sewer.....	99th st., bet. Riverside and West End aves.....	\$3,344 00				
".....	5th ave., bet. 99th and 98th sts., etc.....	20,755 07				
".....	West Broadway, bet. Barclay and Murray sts.....	1,772 10				
".....	St. Nicholas ave., bet. 137th and 141st sts.....	7,040 29				
".....	119th st., bet. Amsterdam ave. and Morningside ave., West.....	4,360 60				
".....	1st ave., bet. 31st and 33d sts., etc.....	5,073 95				
".....	Cathedral parkway, bet. Riverside and Boulevard.....	2,589 00				
".....	10th st., bet. Riverside and West End aves.....	3,941 72				
".....	4th ave., bet. 12th and 13th sts.....	1,805 50				
".....	8th ave., bet. 150th and 153d sts.....	5,182 00				
".....	10th st., bet. Boulevard and West End ave.....	1,007 99				
".....	130th st., bet. Amsterdam and Convent aves.....	1,138 60				
".....	11th st., bet. Manhattan and 8th aves.....	1,204 10				
Receiving-basin.....	Macomb's Dam rd., bet. 149th and 152d sts.....	4,532 25				
".....	Southeast cor. of Bethune and Greenwich sts.....	164 00				
".....	Southeast cor. of 120th st. and Boulevard and southwest cor. of 122th st. and Amsterdam ave.....	267 00				
		\$64,158 87				
Regulating, Grading, Curbing and Flagging Contracts.						
Regulating and grading.....	20th st., from Amsterdam ave. to Harlem river.....	\$5,033 23				
".....	20th st., from Amsterdam ave. to Harlem river.....	4,804 08				
".....	202d st., from Amsterdam ave. to Harlem river.....	7,555 20				
".....	125th st., from Boulevard to Claremont ave.....	686 83				
".....	120th st., from Amsterdam ave. to Kingsbridge rd.....	10,255 65				
".....	158th st., from 11th ave. to New York Central and Hudson River Railroad.....	4,449 40				
".....	203d st., from Amsterdam ave. to Harlem river.....	4,823 70				
".....	164th st., from Amsterdam to Edgecombe ave.....	3,095 78				
Flagging, etc.....	Manhattan ave., from 106th to 110th sts.....	3,199 38				
".....	57th st., south side, bet. Broadway and 7th ave.....	134 64				
		\$44,128 39				
Paving and Repaving Contracts.						
Paving.....	96th st., from Park to 5th ave.....	\$11,756 75				
".....	160th st., from Amsterdam ave. to Boulevard.....	6,207 35				
".....	Gouverneur lane, from Water to South st., land grant.....	2,026 64				
".....	Moore st., from Pearl to South st., land grant.....	3,818 90				
".....	Pine st., from Pearl to South st., land grant.....	3,444 50				
".....	Wall st., from Pearl to South st., land grant.....	9,450 11				
".....	Old Slip, from Pearl to South st., land grant.....	11,806 08				
".....	Jones lane, from Front to South st., land grant.....	1,149 29				
".....	4th ave., east side, bet. 33d and 34th sts.....	1,411 30				
".....	170th st., from Amsterdam to 11th ave.....	8,271 11				
".....	142d st., from Boulevard to New York Central and Hudson River Railroad.....	5,047 10				
".....	Jackson Slip, from Water to South st.....	6,165 29				
".....	140th st., from Amsterdam ave. to Hamilton pl.....	3,666 50				
".....	Cuyler's alley, from Water to South st., land grant.....	1,043 84				
".....	Columbus ave., from 126th to 127th st.....	2,012 14				
".....	Manhattan ave., from 100th to 103d st.....	9,420 39				
".....	131st st., from Park to Lexington ave.....	2,805 26				
".....	Avenue A, from 9th to 88th st.....	140,406 47				
".....	147th st., from Amsterdam ave. to Boulevard.....	7,501 23				
".....	120d st., from Central Park, West, to Manhattan ave.....	3,001 50				
".....	13th ave., west side, bet. 24th and 25th sts., land grant.....	971 55				
".....	Peck Slip and Ferry st., from Pearl to South st., land grant.....	13,987 34				
".....	10d st., from Park to Madison ave.....	2,885 40				
".....	Jackson Slip, from Water to South st.....	979 53				
".....	Burling Slip and John st., from Pearl to South st., land grant.....	12,625 03				
".....	Park ave., from 96th to 97th st.....	2,815 00				
".....	65th st., from 1st ave. to Avenue A.....	4,888 34				
Resurfacing.....	Boulevard, from 119th st. to railroad track on Manhattan st.....	3,567 30				
Laying crosswalks.....	Across St. Nicholas ave. at north side of 116th st.....	136 10				
		\$284,558 34				
Fencing Vacant Lots Contracts.						
Fencing.....	71st st., west of West End ave.....	\$36 96				
".....	98th st., south side, west of 2d ave.....	51 77				
Iron fence.....	Retaining wall on east side of St. Nicholas terrace, from 120th st. to Convent ave.....	3,207 73				
		\$3,296 46				
Laying Water-mains Contracts.						
Laying water-mains.....	Burnside, Boston, St. Nicholas, Morningside, West, Bailey, Manhattan, Lind, Union and Brook aves., and in 96th, 101st, 102d, 107th, 108th, 114th, 132d, 133d, 139th, 147th, 156th, 162d, 164th, 168th and Wolf sts.....	\$8,953 68				
Furnishing, delivering and laying water-mains.....	Boulevard, bet. 118th and 143rd sts.; in 145th st., bet. Boulevard and Amsterdam ave., and in Amsterdam ave., bet. 145th and 172d sts.....	98,586 69				
Laying water-mains.....	Tremont aves.; in 87th, 96th, 98th, 10th, 11th, 12th, 13d, 138th, 157th, 16					

No. of Voucher.	Name of Owner.	For What Paid.	Amount Paid.	Remarks.	Month.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.
536	S. C. Ormsby.				January	4.19	4.41	2.80	5.07	5.59	5.24	5.68	5.56	5.14	2.03	9.76	5.95	4.03	3.40	4.85
636	C. Feltmangin.				February	5.28	5.95	5.21	6.31	4.66	5.20	6.01	5.57	2.33	4.94	6.02	1.22	8.05	5.01	1.85
637	H. B. Bolton.				March	6.14	4.58	1.67	4.82	1.29	3.86	3.60	6.44	1.86	5.06	3.36	3.90	4.53	1.62	1.88
638	Thomas Bolton.				April	1.67	1.36	3.04	2.96	2.09	3.61	3.47	2.68	4.43	3.03	3.77	1.08	3.55	3.07	5.63
639	W. H. Buchall.				May	3.74	6.30	2.85	4.33	2.44	4.54	0.32	6.27	3.22	5.74	1.26	5.74	8.18	6.00	2.41
640	John W. Bolton.				June	5.72	3.04	5.64	2.04	1.19	3.09	7.70	2.00	4.53	3.56	1.81	3.64	2.33	1.59	2.16
641	C. E. Bolton.				July	2.45	3.63	4.26	5.27	4.40	13.32	2.43	7.74	5.46	2.97	5.05	2.38	1.75	3.95	
642	M. C. Littlewood.				August	1.71	3.92	2.09	4.50	7.35	5.21	7.06	4.79	5.01	6.22	7.06	1.42	3.10	1.16	
643	Samuel H. Meyers.				September	0.75	1.33	2.45	1.69	1.09	2.00	10.77	6.13	1.89	2.65	2.55	7.09	1.09	2.91	
644	E. S. Norris.				October	3.65	3.33	6.99	3.74	5.19	2.28	3.12	4.80	4.83	7.03	2.15	0.92	6.42	5.94	
645	T. Bolton, etc., Lessees.				November	4.50	1.65	1.79	4.37	5.99	5.57	2.69	4.49	8.45	1.12	3.86	7.85	3.32	4.17	
646	D. Lydig.				December	6.53	2.68	3.45	7.34	3.84	4.29	6.71	6.13	3.71	5.63	1.15	5.34	4.43	4.88	
647	Thomas C. Wolf.				Total	46.33	55.20	43.15	53.71	45.99	47.59	61.68	63.51	54.50	54.44	48.19	45.37	57.83	46.99	38.33
673	Thomas Carpenter.																			
674	Andrew Feris.																			
675	Lorenz Wolf.																			
676	T. E. Carpenter.																			
677	E. A. McTavney.																			
678	A. W. Young and W. J. Halstead.																			
679	E. Bochmer.																			
680	W. J. Halstead.																			
681	Sarah Briggs.																			
682	George W. Briggs.																			
683	S. Lynch.																			
684	A. W. Young.																			
685	School District No. 12.																			
686	E. T. Slosson.																			
687	Mary C. Brower.																			
688	Emily C. Hallcock.																			
689	Estate of D. Brentett.																			
690	Estate of E. Carpenter.																			
691	J. Martin.																			
692	James H. Hart.																			
693	G. W. McLaverty.																			
694	Estate of W. Ryer.																			
695	L. J. Salles.																			
696	Estate of A. A. Sutton.																			
697	"																			
698	H. M. Coffin.																			
699	E. M. Meyers.																			
700	D. L. Ladeague.																			
701	M. E. Church.																			
702	Estate of B. Carpenter.																			
703	August Johnson.																			
704	George and W. Nelson.																			
705	B. Scord.																			
706	"																			
707	"																			
708	Damages.																			
709	Croton Lake.																			
710	Mount Kisco.																			
711	Katonah.																			
712	Carmel.																			
713	Land.																			
714	Croton Lake.																			
715	Mount Kisco.																			
716	Katonah.																			
717	Carmel.																			
718	Damages.																			
719	Croton Lake.																			
720	Mount Kisco.																			
721	Katonah.																			
722	Carmel.																			
723	Land.																			
724	Croton Lake.																			
725	Mount Kisco.																			

FOR THE YEAR 1895.

AQUEDUCT—REPAIRS, MAINTENANCE AND STRENGTHENING.

DIVISION.	Earth Excavated, Cu. Yds.	Stone Quarried, Cu. Yds.	Dry Stone Ma- sonry, Cu. Yds.	Fence Built, Lin. Ft.	Fence Repaired, Lin. Ft.	Fence Removed, Lin. Ft.	Fence Painted, Lin. Ft.	Gates Built.	Fence Posts Set, Lin. Ft.	Filling and Grav- ing, Cu. Yds.	Spreading Man- ure Loads.	Sodding, Sq. Yds.	Seeding, Sq. Yds.	Drain Pipe Re- laid.	Brick Masonry, Cu. Ft.	Flagging Laid, Sq. Ft.	Board Walk,	
First.....	314	52	312	100	75	...	...	...	...	1,930	200	50	...	...	738	177	...	
Second....	113	50	189	1,591	125	506	2,662	8	...	50	15	320	...	...	...	...	...	...
Third....	800	..	216	1,139	1,150	275	2,662	8	...	900	100	80	212	...	...	...	...	...
Fourth....	333	..	224	1,180	1,600	600	150	4	493	30	900	200	50	...	...	...	...	...
Fifth....	145	36	146	3,065	4,343	703	241	620	...	...	...	...	50	...	1,400	...	...	...
Sixth....	...	...	400	...	...	...	...	86	...	150	...	...	...	...	...	...	...	...
Seventh....	...	...	200	...	200	...	...	...	...	150	...	...	...	...	...	...	...	...
Eighth....	260	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total....	1,687	91	1,158	8,205	7,293	1,581	3,512	14	327	3,993	650	30	950	15	788	389	1,400	...

The work of maintenance and repairs of Aqueduct has been continued during the year ending December 31, 1895, with the result of a considerable amount of work being accomplished. The general character of the work has been: Care of surface of Aqueduct, gate-houses, machinery; patrolling reservoirs; new screens put in gate-house at Croton Dam; repairs to Aqueduct tunnel and thoroughly cleansing same; completing the improvement of Nepperhan avenue, Yonkers, by increasing of the Aqueduct arch. The particular work on each division has been as follows:

First Division—The work on this division has been cleaning up line of Aqueduct and shores of lake; hauling and spreading manure; working the highway; cutting bushes; ploughing and seeding; cutting grass; repairing fences; repairing stone-wall; cleaning gearing to gates in gate-houses; oiling and greasing machinery attached to turbine water-wheel in new gate-house and putting valves in same; scraping and painting ladders in chambers of new gate-house; inspecting New Aqueduct.

Second Division—The work on this division has been rebuilding stone-wall on Potter Bank and on Quaker Bridge road, also between Ventilators 4 and 5; building and repairing fences; cutting grass; building fence-gates and repaired old ones; removed old stable and commenced building a new one; repairs to Aqueduct tunnel; cleaning the inside of Aqueduct and hoisting and removing all the refuse from same; one manhole was cut in the Aqueduct at Knowers Bank to allow materials to be passed down; built new store-house for cement and other supplies; removed all the old worthless buildings from the yards; flagging laid at the gate-house on Ann street; filling in at Nelson Park; a new hot-air furnace has been put in keeper's house.

Third Division—The work on this division has been building retaining-walls, with all the excavation and tearing-down necessary for the same; quarrying stone and spreading manure; all culverts, gutters and crosswalks kept clear of snow and ice; hauling stone from quarry and spreading manure; drain-pipes relaid; capstones on culvert at Phelps Bank taken up and reset; removing telephone poles and cutting up same into fence-posts; filling and grading; building and repairing fences; painting iron-work in gate-houses; cutting grass; repairing retaining-wall on Hawes Bank; repairing leak in bottom of Aqueduct on Pierson Bank; cut manhole in arch of Aqueduct; repairs to tunnel of Aqueduct, and all the refuse hoisted out and carted away and the Aqueduct thoroughly cleaned; hot-air furnaces in keeper's house.

Fourth Division—The work on this division has been building, repairing and painting fences; retaining-wall built; cleaning up line; cutting grass; flagging laid; excavating, filling and grading; Aqueduct tunnel cleaned; repairs and painting at keeper's house; removing fence at Casino property at Dobbs Ferry.

Fifth Division—The work on this division has been hauling and spreading gravel; building and repairing fences and fence gates and painting same; cleaning up line drains, gutters and crosswalks; cutting grass, hauling dirt and grading; sodding and seeding banks; repairs to plumbing; painting keeper's house and putting hot-air furnace in same; repairs to and cleaning Aqueduct tunnel; excavating for and building retaining-wall on the Shonard and Rayner banks; removing and resetting fences on the Harriman bank, so that the new street, O'Dell avenue, might be opened.

Sixth Division—The work on this division has been building; repairing brick and cement; rebuilt culvert; built stone-wall fence; building, repairing and painting fences and fence gates; quarrying stone; filling and grading; setting fence posts; cutting grass; repairing Fordham gate-house; repairs to Aqueduct tunnel; cleaning Aqueduct tunnel; cutting grass; painting plumbing and setting hot-air furnace in keeper's house; removing fence at Jerome Park and laying road walk.

Seventh Division—The work on this division has been hoisting coal for pumping engine; removing ice and snow from the bridge and all the approaches to same; cleaning gate-house screens and greasing screws ready for use; the reservoir is kept free from leaves and scum; the drains, culverts and fences along the line have been kept in good order; spreading manure, supplying coal to gate-houses and tower; filling and grading, spreading limestone screenings; grass cut and hauled away from all the banks; building and repairing fences and stone walls; setting fence posts; new wooden steps put in stairway from Aqueduct to Reservoir roadway; scraping rust from tank in tower; cleaning inside and painting same; scraping large pipe in the bridge and painting the same; painting tank and iron work in gate-houses and engine-house; the fence around keeper's house and in front of tower has been painted; painting fences, sashes and window frames in tower; much work has been done by carpenter on dock and back of the fire-room; ties and rails laid in the tunnel and on the dock for hoisting coal; digging trench from fire-room to the left; blasting rock for same for the steam pipe connecting with engine and making trench through ash-bank for exhaust steam-pipe; built two new coal cars; new porcelain bathtub put in keeper's house; new floor in bath-room, and woodwork repainted; drain-pipe from keeper's house to sewer put in; concrete floor put in tunnel of coal hoist; grading work has been done around the coal hoist; whitewashing inside of tunnel; filling and grading around coal-lift; stop-cocks wrapped with straw to keep from freezing, as well as those in outside chambers and tower; new floors laid and window sills put in tower; repairing roof of coal shed on dock; new roof in coal-shed at new pumping station; also made and put in 16 drain boxes; painting in keeper's house and Engineer's office building.

Eighth Division—The work on this division has been cleaning and repairs to Central Park and Forty-second Street Reservoirs, gate-houses, chambers and outside mains and stop-cock chambers; cleaning, repairs and maintenance of High Service Works, Ninth and Tenth avenue; gate-houses and grounds; shoveling snow around reservoirs; making new screens for gate-houses; making boxes for screws on outside mains; repairs to furnaces at the High Service Works and at Highbridge; cutting grass around gate-houses and reservoirs; painting bridge on old reservoir; painting iron stairs at south gate-house; patrolling Central Park Reservoirs and pipe lines; hauling dirt from keeper's yard; building and repairing fences and bridge on old reservoir; pointing wall of old reservoir; lowering stop-cock boxes in Ninety-seventh street transverse road; painting fences and bridges on old reservoir; painting roof of Ninety-second and Ninety-third streets gate-house on Ninth avenue; cutting grass; shellacking floor of engine-room at the High Service Works; painting fences and outside of keeper's house; varnishing window frames and doors of gate-houses on new reservoirs; painting iron work in south gate-house chamber.

## LAYING CROTON PIPES.

Report for Quarter and Year ending December 31, 1895.

Contracts for laying water-mains in the following streets and avenues have been completed during the quarter: Boulevard, from One Hundred and Eighteenth to One Hundred and Forty-fifth street; One Hundred and Forty-fifth street, from Boulevard to Amsterdam avenue; Amsterdam avenue, from One Hundred and Forty-fifth to One Hundred and Seventy-second street; Burnside avenue, from Webster to Jerome avenue; Boston avenue, from Sedgwick avenue to Perot street; St. Nicholas avenue, from One Hundred and Nineteenth to One Hundred and Twenty-first street; Morningside avenue, West, from One Hundred and Thirteenth to One Hundred and Fourteenth street; Bailey avenue, from Kingsbridge avenue to Boston road; Manhattan avenue, from One Hundredth to One Hundred and Third street; Lind avenue, from Union street to Sedgwick avenue; Union avenue, from Kelly to One Hundred and Forty-ninth street; Brook avenue, from Sedgwick to Park street; Fifth avenue; One Hundred and First street, from Central Park, West, to Manhattan avenue; One Hundred and Second street, from Central Park, West, to Manhattan avenue; One Hundred and Second street, from Central Park, West, to Columbus avenue; One Hundred and Eighth street, from Amsterdam avenue to Boulevard; One Hundred and Fourteenth street, from Amsterdam avenue to Morningside avenue, West; One Hundred and Thirty-second street, from Brook to St. Ann's avenue; One Hundred and Thirty-third street, from Twelfth avenue to Boulevard; One Hundred and Thirty-ninth street, from Morris to Rider avenue; One Hundred and Forty-seventh street, from Seventh to Eighth avenue; One Hundred and Fifty-sixth street, from Rail road to Courtland avenue; One Hundred and Sixty-second street, from Third to Brook avenue; One Hundred and Sixty-fourth street, from Morris to Railroad avenue; One Hundred and Sixty-eighth street, from Third to Railroad avenue; Manhattan avenue, from Third to Railroad avenue; Manhattan avenue, from One Hundred and Sixth to One Hundred and Tenth street; Amsterdam avenue, from One Hundred and Thirty-third to One Hundred and Thirty-fifth street; One Hundred and Thirty-third street, from Amsterdam to Boulevard; One Hundred and Thirty-third street, from Amsterdam to Convent avenue; One Hundred and Fiftieth street, from Amsterdam avenue to Boulevard; South avenue, from Palisade to Riverdale avenue; One Hundred and Twenty-seventh street, from St. Nicholas avenue to Lawrence street; Convent avenue, from One Hundred and Twenty-sixth to One Hundred and Thirty-first street; Terrace View avenue, from Jansen avenue to a point 550 feet south; Hamilton Terrace, from One Hundred and Forty-first street to One Hundred and Forty-fourth street; Ninety-seventh street, from Park to Fifth avenue; Ninetieth street, from Avenue A to East river; Macomb's Dam road, from Eighth avenue to One Hundred and Fifty-third street; Jefferson street, from Boston road to Franklin avenue; One Hundred and Sixty-fourth street, from Amsterdam to Edgecombe road; Ninety-fourth street, from West End avenue to Riverside drive; One Hundred and Ninth street, from Boulevard to Riverside Drive; One Hundred and Twelfth street, from Lenox to Seventh avenue; One Hundred and Thirtieth street, from Amsterdam to Convent avenue.

Boulevard to West End avenue; Ninety-eighth street, from Third to Fifth avenue; One Hundred and Tenth street, from Central Park, West, to Manhattan avenue; One Hundred and Eleventh street, from Boulevard to Morningside avenue, West; One Hundred and Sixteenth street, from Boulevard to Convent avenue; One Hundred and Thirty-eighth street, from Railroad avenue to Mott Haven Canal; One Hundred and Fifty-seventh street, from Eighth avenue to a point 700 feet west; One Hundred and Sixty-third street, from Morris to Railroad avenue; Powell place, from Riverview Terrace to New York and Putnam Railroad; Cedar place, from Eagle to Union avenue; St. Nicholas avenue, from One Hundred and Twenty-fifth to One Hundred and Twenty-seventh street; Convent avenue, from One Hundred and Twenty-sixth to One Hundred and Twenty-first street; Terrace View avenue, from Jansen avenue to a point 550 feet south; South avenue, from Palisade to Riverdale avenue; Sixty-fifth street, from First avenue to Avenue A; Ninetieth street, from Avenue A to East river; Macomb's Dam road, from Eighth avenue to One Hundred and Fifty-third street; Jefferson street, from Boston road to Franklin avenue; One Hundred and Sixty-fourth street, from Amsterdam to Edgecombe road; Ninety-fourth street, from West End avenue to Riverside drive; One Hundred and Ninth street, from Boulevard to Riverside Drive; One Hundred and Twelfth street, from Lenox to Seventh avenue; One Hundred and Thirtieth street, from Amsterdam to Convent avenue.

Contracts for furnishing cast-iron water pipe, etc., and for furnishing stop-cocks, hydrants, etc., were completed.

## Amount of Pipe Laid, Stop-cocks Set and Hydrants Placed in 1895.

PIPE LAID.		STOP-COCKS SET.		HYDRANTS PLACED.	
Diameter.	Linear feet laid during quarter ending Dec. 31, 1895.	Diameter.	Set during quarter ending Dec. 31, 1895.	Pattern.	Placed during quarter ending Dec. 31, 1895.
48-inch.....	...	48-inch.....	1	Nos. 1, 2 and 3...	18
36-inch.....	2,786	36-inch.....	6	" A ".....	33
30-inch.....	...	30-inch.....	1	Double nozzle,	90
20-inch.....	...	20-inch.....	8	" New York ".	31
12-inch.....	8,615	12-inch.....	10	Double nozzle,	31
6-inch.....	25,970	6-inch.....	83	" A ".....	25
4-inch.....	...	4-inch.....	4	Total.....	164
Total....	37,371	Total.....	95	Total.....	409

## Streets and Avenues in which Water-mains have been Laid in 1895.

48-inch Pipe—From stand pipe in New High Service Works at One Hundred and Seventy-ninth street, through tunnel to the west side of Amsterdam avenue.

36-inch Pipe—Boulevard, from One Hundred and Eighteenth to One Hundred and Forty-fifth street; One Hundred and Forty-fifth street, from Boulevard to Amsterdam avenue; Amsterdam avenue, from One Hundred and Forty-fifth to One Hundred and Seventy-ninth street; One Hundred and Seventy-ninth street, from west curb line of Amsterdam avenue to a point 50 feet west; connecting old 36-inch main to High Bridge with receiving tank in New High Service Works (partly in tunnel).

30-inch Pipe—From vault on west side of New High Service Works at One Hundred and Seventy-ninth street, through tunnel to the west side of Amsterdam avenue.

20 inch Pipe—Amsterdam avenue, from One Hundred and Seventy-fourth to One Hundred and Eightieth street; Third avenue, from One Hundred and Seventy-sixth to One Hundred and Eighty-first street.

12-inch Pipe—Southern Boulevard, from Home to Freeman street; Eighth avenue, from One Hundred and Twenty-fifth to One Hundred and Fifty-fifth street; Lenox avenue, from One Hundred and Forty-fifth to One Hundred and Forty-seventh street; intersection of Lexington and One Hundred and Thirty-first street; Amsterdam avenue, from One Hundred and Thirty-eighth to One Hundred and Eighty-second street; Southern Boulevard, from Webster to Hull avenue; Third avenue, from One Hundred and Thirty-sixth to One Hundred and Thirty-eighth street to Harlem river; Burnside avenue, from Jerome to Webster avenue; Bailey avenue, from Boston avenue to Kingsbridge road; Lenox avenue, from One Hundred and Twelfth to One Hundred and Fifteenth street; One Hundred and Tenth street, from Central Park, West, to Manhattan avenue; Tremont avenue, from Third to Vanderbilt avenue; One Hundred and Thirty-eighth street, from Railroad avenue to Mott Haven Canal; One Hundred and Sixteenth street, from Boulevard to Morningside avenue, West; Webster avenue, from Samuel to One Hundred and Eighty-seventh street; St. Nicholas avenue, from One Hundred and Twenty-fifth to One Hundred and Twenty-seventh street.

6-inch Pipe—One Hundred and Sixty-eighth street, from Webster avenue to Harlem railroad; Brook avenue, One Hundred and Sixty-eighth street to a point 230 feet north; Clover street, from Boston road to Bronx street; Bronx street, from Clover to Samuel street; Samuel street, from Bronx street to Boston road; One Hundred and Sixty-eighth street, from Amsterdam avenue to Kingsbridge road; Freeman street, from Union avenue to Southern Boulevard; Union avenue, from Kelly street to Westchester avenue; One Hundred and Twelfth street, from Fifth to Lenox avenue; One Hundred and Eleventh street, from Fifth to Lenox avenue; Melrose avenue, from One Hundred and Forty-ninth to One Hundred and Sixty-third street; Amsterdam avenue, from One Hundred and Thirteenth to One Hundred and Seventeenth street; One Hundred and Seventeenth street, from Amsterdam avenue to Morningside avenue, West; Tinton avenue, from One Hundred and Sixty-third to One Hundred and Sixty-ninth street; One Hundred and Thirty-first street, from Park to Lexington avenue; One Hundred and Sixty-sixth street, from Amsterdam avenue to Edgecombe road; Railroad avenue, from One Hundred and Thirty-fifth to One Hundred and Fifty-fifth street; Thirty-seventh street, from First avenue to East river; One Hundred and Eighty-seventh street, from Amsterdam avenue to Kingsbridge road; One Hundred and Thirty-first street, from Amsterdam to Convent avenue; One Hundred and Forty-sixth street, from Lenox to Seventh avenue; One Hundred and Forty-seventh street, from Lenox to Riverside Drive; Hoe street, from Home street to Cooke place; Travers street, from Creston to Webster avenue; Pond place, from Travers to William street; St. Nicholas avenue, from One Hundred and Nineteenth to One Hundred and Twenty-first street; Decatur avenue, from Southern Boulevard to Isaac street; Fulton avenue, from One Hundred and Eighty-seventh to Pelham avenue; One Hundred and Seventh street, from Central Park, West, to Columbus avenue; Manhattan avenue, from One Hundred and Third street; One Hundred and First street, from Central Park, West, to Manhattan avenue; One Hundred and Second street, from Central Park, West, to Manhattan avenue; One Hundred and Eighth street, from Amsterdam avenue to Boulevard; Ninety-sixth street, from Fifth to Madison avenue; One Hundred and Thirty-third street, from Twelfth avenue to Boulevard; Morning-side avenue, West, from One Hundred and Thirteenth to One Hundred and Fourteenth street; One Hundred and

4-inch Pipe—Inwood street, from Kingsbridge road to "F" street; "F" street, from Inwood street to a point 250 feet north.

"A" Hydrants Placed During the Year 1895.

Northwest cor. 168th st. and Brook ave....	North side 187th st., bet. Amsterdam and Audubon aves....	Northwest cor. Burnside and Fleetwood aves. North side Burnside ave., west of Morris ave.	Southwest cor. 157th st. and 8th ave....
North side 168th st., near Harlem Railroad.	North side 187th st., bet. Audubon and 11th avenues....	North side Burnside ave., bet. Morris and Creston aves....	South side 157th st., west of 8th ave....
West side Brook ave., north of 168th st....	North side 187th st., bet. 11th and Wadsworth aves....	South side Burnside ave., bet. Creston and Anthony aves....	East side Webster ave., bet. Samuel and 181st streets....
North side Samuel st., bet. Boston rd. and Bronx st....	North side 187th st., bet. 11th and Wadsworth aves....	North side Burnside ave., bet. Anthony and Valentine aves....	Northeast cor. Webster ave. and 181st st. and 182d streets....
Southeast cor. Bronx and Samuel sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northeast cor. Burnside and Valentine aves....	Northwest cor. Webster ave. and 182d st....
West side Bronx st., north of Clover st....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. Tiebout and Burnside aves....	Northeast cor. 98th st. and 5th ave....
North side Clover st., bet. Boston rd. and Bronx st....	Northwest cor. 187th st. and Kingsbridge rd.	East side Burnside ave., bet. 178th st. and Webster ave....	Northwest cor. 98th st. and Madison ave....
Northwest cor. 168th st. and Amsterdam ave....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. Amsterdam ave. and 138th st.	Northeast cor. 98th st. and Madison ave....
Northeast cor. 168th st. and Audubon ave....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 139th st. and Amsterdam ave....	Northeast cor. 98th st. and Lexington ave....
Northeast cor. 168th st. and Kingsbridge rd....	Northwest cor. 187th st. and Kingsbridge rd.	West side Amsterdam ave., bet. 142d and 143d sts....	Northeast cor. 96th st. and 1st ave....
Northeast cor. Fremont st. and Union ave....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. Hoe and Home sts....	North side 96th st., bet. 1st ave. and Harlem river....
Northwest cor. Freeman st. and Prospect ave....	Northwest cor. 187th st. and Kingsbridge rd.	West side Amsterdam ave., bet. 144th and 145th sts....	Northeast cor. 111th st. and Manhattan ave....
Northeast cor. Freeman st. and Lyman pl....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. Kingsbridge rd. and Bailey avenue....	Northwest cor. 111th st. and Central Park, West....
North side Freeman st., bet. Chisholm st. and Stebbins ave....	Northwest cor. 187th st. and Kingsbridge rd.	West side Bailey ave., bet. Kingsbridge rd. and Riverdale ave....	Northeast cor. 98th st. and West End ave....
Northwest cor. Freeman st. and Intervale ave....	Northwest cor. 187th st. and Kingsbridge rd.	West side Bailey ave., bet. Riverdale and Boston aves....	Northwest cor. 98th st. and Boulevard....
Northwest cor. Freeman st. and So. Boulevard	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 113th st. and Lenox ave....	Northwest cor. 87th st. and Amsterdam ave....
Northwest cor. So. Boulevard and Home st....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 114th st. and Lenox ave....	Northeast cor. 105th st. and Riverside Drive and West End ave....
Southwest cor. So. Boulevard and Freeman st....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. Manhattan ave. and 106th st. East side Manhattan ave., bet. 106th and 107th sts....	North side 105th st., bet. West End ave. and Boulevard....
Northwest cor. Union ave. and Kelly st....	Northwest cor. 187th st. and Kingsbridge rd.	West side Manhattan ave., bet. 107th and 108th sts....	East side Amsterdam ave., south of 135th st....
West side Union ave., south of Dawson st....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 108th st. and Manhattan ave....	Northeast cor. Amsterdam ave. and 133d st....
Northwest cor. Union ave. and 156th st....	Northwest cor. 187th st. and Kingsbridge rd.	West side Manhattan ave., bet. 108th and 109th sts....	Northwest cor. 133d st. and Convent ave....
Southwest cor. Union and Westchester aves....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. Boston and Heath ave....	Northwest cor. 122d st. and Boulevard....
Northwest cor. 112th st. and 5th ave....	Northwest cor. 187th st. and Kingsbridge rd.	West side Boston ave., bet. Heath ave. and Perot st....	West side Amsterdam ave., bet. 148th and 149th sts....
North side 112th st., bet. 5th and Lenox aves....	Northwest cor. 187th st. and Kingsbridge rd.	West side Boston ave., bet. Perot st. and Sedgwick ave....	Northwest cor. 150th st. and Amsterdam ave....
Northwest cor. 117th st. and Morningside ave....	Northwest cor. 187th st. and Kingsbridge rd.	Northeast cor. Tremont and Railroad aves....	West side Amsterdam ave., bet. 152d and 153d sts....
North side 117th st., bet. Amsterdam and Morningside aves....	Northwest cor. 187th st. and Kingsbridge rd.	Northeast cor. Tremont and Washington avenues....	West side Amsterdam ave., bet. 156th and 157th sts....
Southwest cor. Melrose ave. and 150th st....	Northwest cor. 187th st. and Kingsbridge rd.	Northeast cor. Tremont and Washington avenues....	West side Amsterdam ave., bet. 157th and 158th sts....
West side Melrose ave., bet. 151st and 152d streets....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. Tremont and Bathgate aves....	West side Amsterdam ave., bet. 161st st. and Kingsbridge rd....
West side Melrose ave., bet. 153d and 154th streets....	Northwest cor. 187th st. and Kingsbridge rd.	Northeast cor. Tremont and Bathgate aves....	Northwest cor. Amsterdam ave. and 167th st....
West side Melrose ave., bet. 154th and 155th streets....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. St. Nicholas ave. and 120th st....	Southwest cor. Amsterdam ave. and 169th st....
West side Melrose ave., bet. 155th and 156th streets....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. Decatur ave. and Isaac st....	North side 150th st., bet. Amsterdam ave. and Boulevard....
West side Melrose ave., bet. 156th and 157th streets....	Northwest cor. 187th st. and Kingsbridge rd.	Southwest cor. Decatur ave. and Travers st....	North side 127th st., bet. St. Nicholas and Convent aves....
West side Melrose ave., bet. 157th and 158th streets....	Northwest cor. 187th st. and Kingsbridge rd.	West side Decatur ave., bet. Travers st. and Southern Boulevard....	Northwest cor. 127th st. and Convent ave....
West side Melrose ave., bet. 158th and 159th streets....	Northwest cor. 187th st. and Kingsbridge rd.	Southwest cor. Decatur ave. and Southern Boulevard....	Northwest cor. 127th st. and Convent ave....
West side Melrose ave., bet. 159th and 160th streets....	Northwest cor. 187th st. and Kingsbridge rd.	North side Southern Boulevard, bet. Webster and Decatur aves....	Northwest cor. 127th st. and Convent ave....
West side Melrose ave., bet. 160th and 161st streets....	Northwest cor. 187th st. and Kingsbridge rd.	North side Southern Boulevard, bet. Decatur and Hull aves....	Northwest cor. 127th st. and Convent ave....
West side Melrose ave., bet. 161st and 162d streets....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. Fulton ave. and 187th st....	Northwest cor. 127th st. and Convent ave....
West side Melrose ave., bet. 162d and 163d streets....	Northwest cor. 187th st. and Kingsbridge rd.	Southwest cor. Fulton ave. and Bayard st....	Northwest cor. 127th st. and Convent ave....
East side Amsterdam ave., bet. 113th and 114th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. Fulton ave. and Bayard st....	West side Hamilton Terrace, bet. 141st and 144th sts....
Northeast cor. 114th st. and Amsterdam ave....	Northwest cor. 187th st. and Kingsbridge rd.	West side Fulton ave., bet. Bayard st. and Pelham ave....	Southwest cor. Hamilton Terrace and 144th street....
Northeast cor. 115th st. and Amsterdam ave....	Northwest cor. 187th st. and Kingsbridge rd.	Southwest cor. Fulton and Pelham aves....	Northeast cor. 97th st. and 5th ave....
East side Amsterdam ave., bet. 116th and 117th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northeast cor. 107th st. and Columbus ave....	Northwest cor. 97th st. and Madison ave....
West side Tinton ave., bet. 163d and 165th streets....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 107th st. and Manhattan ave....	Northeast cor. 97th st. and Madison ave....
West side Tinton ave., bet. 165th and 166th streets....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 107th st. and Central Park, West....	North side 90th st., bet. Avenue A and East river....
West side Tinton ave., bet. 166th and 167th streets....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 107th st. and Central Park, West....	Northwest cor. 130th st. and Convent ave....
West side Tinton ave., bet. 167th and 168th streets....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Manhattan ave....	Northwest cor. 127th st. and Lawrence sts....
Northwest cor. Tinton ave. and 168th st....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Boulevard....	West side Hamilton Terrace, bet. 141st and 144th sts....
Southwest cor. Tinton ave. and 169th st....	Northwest cor. 187th st. and Kingsbridge rd.	North side 116th st., bet. Boulevard and Amsterdam aves....	Southwest cor. Hamilton Terrace and 144th street....
East side 8th ave., bet. 125th and 126th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	Northeast cor. 97th st. and 5th ave....
East side 8th ave., bet. 126th and 127th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	Northwest cor. 97th st. and Madison ave....
East side 8th ave., bet. 127th and 128th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Boulevard....	Northeast cor. 97th st. and Avenue A....
East side 8th ave., bet. 128th and 129th sts....	Northwest cor. 187th st. and Kingsbridge rd.	North side 116th st., bet. Boulevard and Amsterdam aves....	North side 90th st., bet. Avenue A and East river....
East side 8th ave., bet. 129th and 130th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	Northwest cor. 130th st. and Convent ave....
East side 8th ave., bet. 130th and 131st sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	Northwest cor. Jefferson st. and Clinton ave....
East side 8th ave., bet. 131st and 132d sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	Northwest cor. 151st st. and Macomb's Dam road....
East side 8th ave., bet. 132d and 133d sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	Northwest cor. 152d st. and Macomb's Dam road....
East side 8th ave., bet. 133d and 134th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	Southeast cor. Jerome ave. and 167th st....
East side 8th ave., bet. 134th and 135th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	Northwest cor. 164th st. and Edgecombe rd....
East side 8th ave., bet. 135th and 136th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	Northeast cor. 164th st. and Amsterdam ave....
East side 8th ave., bet. 136th and 137th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Boulevard....	Northwest cor. 109th st. and Riverside Drive....
East side 8th ave., bet. 137th and 138th sts....	Northwest cor. 187th st. and Kingsbridge rd.	North side 116th st., bet. Boulevard and Amsterdam aves....	Northwest cor. 94th st. and West End ave....
East side 8th ave., bet. 138th and 139th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	North side 94th st., bet. West End ave. and Riverside Drive....
East side 8th ave., bet. 139th and 140th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	Northwest cor. 112th st. and St. Nicholas ave....
East side 8th ave., bet. 140th and 141st sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	Northwest cor. 112th st. and 7th ave....
East side 8th ave., bet. 141st and 142d sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	Northwest cor. 130th st. and Amsterdam ave....
East side 8th ave., bet. 142d and 143d sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	North side Powell pl., near New York and Putnam Railroad....
East side 8th ave., bet. 143d and 144th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	320
East side 8th ave., bet. 144th and 145th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. 116th st. and Amsterdam ave....	No. "1" Hydrants Placed During 1895.
East side 8th ave., bet. 145th and 146th sts....	Northwest cor. 187th st. and Kingsbridge rd.	West side Amsterdam ave., south of 173d st....	Northwest cor. Webster ave. and 184th st....
East side 8th ave., bet. 146th and 147th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Southwest cor. Amsterdam ave. and 173d st....	Southwest cor. Webster ave. and 187th st....
East side 8th ave., bet. 147th and 148th sts....	Northwest cor. 187th st. and Kingsbridge rd.	East side Amsterdam ave., opposite 173d st....	Southeast cor. Boulevard and 136th st....
East side 8th ave., bet. 148th and 149th sts....	Northwest cor. 187th st. and Kingsbridge rd.	West side Amsterdam ave., bet. 173d and 175th sts....	West side Amsterdam ave., bet. 149th and 150th sts....
East side 8th ave., bet. 149th and 150th sts....	Northwest cor. 187th st. and Kingsbridge rd.	Southwest cor. Amsterdam ave. and 179th st....	Southwest cor. Amsterdam ave. and 155th st....
East side 8th ave., bet. 150th and 151st sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. Amsterdam ave. and 179th st....	Northwest cor. Amsterdam ave. and 155th st....
East side 8th ave., bet. 151st and 152d sts....	Northwest cor. 187th st. and Kingsbridge rd.	North side Inwood st., west of Kingsbridge road....	Southwest cor. Amsterdam ave. and Kingsbridge rd....
East side 8th ave., bet. 152d and 153d sts....	Northwest cor. 187th st. and Kingsbridge rd.	Northwest cor. Inwood and "F" sts....	Southwest cor. Amsterdam ave. and 164th st....
East side 8th ave., bet. 153d and 154th sts....	Northwest cor. 187th st. and Kingsbridge rd.	North side Inwood st. and "B" and "C" streets....	Northwest cor. 164th st. and Amsterdam ave....
East side 8th ave., bet. 154th and 155th sts....	Northwest cor. 187th st. and Kingsbridge rd.	North side Inwood st., bet. "C" and "D" streets....	Northwest cor. 109th st. and Riverside Drive....
East side 8th ave., bet. 155th and 156th sts....	Northwest cor. 187th st. and Kingsbridge rd.	North side Inwood st., near New York Central Railroad....	Northwest cor. 109th st. and Boulevard....
East side 8th ave., bet. 156th and 157th sts....	Northwest cor. 187th st. and Kingsbridge rd.	West side Webster ave., south of 183d st....	Northwest cor. 109th st. and Boulevard....
East side 8th ave., bet. 157th and 158th sts....	Northwest cor. 187th st. and Kingsbridge rd.	East side Webster ave., bet. 183d and 184th streets....	Northwest cor. 109th st. and Boulevard....
East side 8th ave., bet. 158th and 159th sts....	Northwest cor. 187th st. and Kingsbridge rd.	West side Webster ave., bet. 184th	

## Double Nozzle New York Hydrants Placed During 1895.

Northeast cor. West 3d and Wooster sts.....	I	West side West Broadway, bet. West 3d and Bleeker sts.....
South side West 3d st., bet. Wooster and Greene sts.....	I	South side 8th st., bet. Mercer and Greene sts.....
Northeast cor. West 3d and Greene sts.....	I	Southwest cor. 8th and Greene sts.....
North side West 3d st., bet. Mercer st. and Broadway.....	I	Southeast cor. Thompson and West 4th sts.....
Southwest cor. West 3d and Mercer st.....	I	East side Thompson st., bet. West 3d and Bleeker sts.....
North side West 4th st., bet. Greene and Wooster sts.....	I	Southeast cor. West 3d and Thompson sts.....
South side West 4th st., bet. Greene and Mercer sts.....	I	Southwest cor. 18th st. and 6th ave.....
South side 4th st., bet. Mercer st. and Broadway.....	I	North side 20th st., bet. 7th and 8th ave.....
North side Washington pl., bet. Greene and Wooster sts.....	I	Northeast cor. 40th st. and 3d ave.....
Southeast cor. Wooster and West 4th sts.....	I	North side 3d st., bet. Macdougal st. and 6th avenue.....
South side 8th st., bet. Mercer st. and Broadway.....	I	South side Great Jones st., bet. Lafayette pl. and Bowery.....
Southeast cor. 8th and Greene sts.....	I	South side Morton st., bet. Hudson and Greenwich sts.....
Southwest cor. West 10th st. and Greenwich avenue.....	I	

Pipes, Stop-cocks and Hydrants, December 31, 1895.

Diameter.	PIPE LAID.		STOP-COCKS SET.		HYDRANTS PLACED.					
	Lined feet laid to Dec. 31, 1894.	Lined feet laid from Dec. 31, 1894, to Dec. 31, 1895.	Diameter.	Set to Dec. 31, 1894.	Set from Dec. 31, 1894, to Dec. 31, 1895.	Patterns.	Placed to Dec. 31, 1894.	Placed from Dec. 31, 1894, to Dec. 31, 1895.	Total placed to Dec. 31, 1895.	
48-inch...	102,255	451	102,726	21	22	Nos. 1, 2 and 3	3,658	33	*3,684	
36-inch...	123,855	16,940	140,795	50	56	Victor.....	139	...	139	
30-inch...	42,023	401	22,284	30	31	" A ".....	3,649	320	*3,949	
24-inch...	11,542	...	11,542	13	13	" B ".....	1,788	...	1,788	
20-inch...	201,542	4,567	*203,697	194	8	Double nozzle.....	266	31	297	
16-inch...	17,130	...	17,130	22	22	" A ".....	22	...	22	
12-inch...	916,037	33,537	*946,028	1,712	51	" Double nozzle.....	25	25	25	
10-inch...	6,629	...	6,629	15	15	" New York ".....	...	...	...	
6-inch...	2,374,154	82,784	*2,450,421	5,442	247	Totals....	9,500	409	9,882	
4-inch...	31,203	919	\$31,209	132	4					
Totals.	3,826,400	139,659	3,953,541							
Miles.	724.70	26.45	748.77							

\* Less 2,412 lineal feet 20-inch pipe discontinued.  
† Less 2,640 lineal feet 12-inch pipe discontinued.  
‡ Less 6,547 lineal feet 6-inch pipe discontinued.  
§ Less 219 lineal feet 4-inch pipe discontinued.

\* Less 7 " No. 1 " hydrants discontinued.  
† Less 20 " A " hydrants discontinued.

## REPAIRING AND RENEWAL OF PIPES, STOP-COCKS, ETC.

A gang of men have been employed relaying mains, changing taps, repairing stop-cocks, etc., at the following localities: Fifth avenue, intersection of Ninth street; Mangin street, intersection of Grand street; Mangin street, intersection of Rivington street; Liberty street, intersection of Temple street; Broad street, between Beaver street and Exchange place; Broad street, intersection of Bridge street; Amsterdam avenue, intersection of One Hundred and Fifty-second street; Amsterdam avenue, intersection of One Hundred and Fifty-third street; Amsterdam avenue, intersection of One Hundred and Fifty-seventh street; Amsterdam avenue, intersection of One Hundred and Fifty-ninth street; Amsterdam avenue, intersection of One Hundred and Sixty-first street; Amsterdam avenue, intersection of One Hundred and Sixty-second street.

## NEW FIRE HYDRANTS.

Since October 1 a gang of men have been employed placing new fire-hydrants. Fifty-six hydrants have been placed. The weather in December being such that the taking up of pavements in the business portion of the city where these hydrants are placed would discommode and hinder traffic, the work was suspended for the winter.

Contract for furnishing pipe, etc., was completed.

## BRIDGE ACROSS THE HARLEM RIVER AT THIRD AVENUE.

The commission appointed to appraise the values of the lands necessary for the approaches are still taking testimony.

All the piers in the river are completed and the iron work of the draw is being erected. The excavation for south abutment and southwest approach are now being made and the pile and concrete foundations being placed.

## BRIDGE OVER THE HARLEM RIVER BETWEEN FIRST AND WILLIS AVENUES.

The amended map of lands required for this bridge has been approved by the Board of Estimate and Apportionment and transmitted to the Counsel to the Corporation for the appointment of Commissioners of Appraisal.

Detail surveys, etc., necessary for detail plans and construction of the bridge are being made.

## NEW HIGH SERVICE WORKS.

The contractor for foundations and grading has completed this work.

The contractor for engine and boiler-house has the same inclosed and will finish in January, 1896.

The contractor for engines, pumps and boilers has the materials for three engines and pumps on the work, two of them set up, and will in February be ready for steam.

The contractor for tunnel under driveway and tower is progressing favorably with the excavations for same.

## HIGH SERVICE.

The number of buildings in this district have increased to 20,800, nearly half of which are flats containing five or more families.

The average daily amount pumped during the year has been 27,000,000 gallons.

The pressures have decreased during the day from the increased use; at night the pumping engines have been able to still keep up the pressures.

TAPS—Number of taps put in during the quarter, 789; number of taps put in during the year, 2,898.

METERS—Number of meters placed during the quarter, 400; number of meters placed during the year, 2,001; number of meters now in use, 32,329.

WASTE AND USED WATER—Average daily use of water in October, 183,000,000 gallons; average daily use of water in November, 184,000,000 gallons; average daily use of water in December, 193,000,000 gallons.

Owing to the cold weather in December, waste to keep service pipes from freezing, commenced.

The average daily use of water during the year 1895 has been: from Croton water-shed, 175,000,000 gallons; from Bronx water-shed, 14,000,000 gallons—average use per day, 189,000,000 gallons. An increase of 6,000,000 gallons per day above 1894.

The increase will be more in 1896, when the new High Service Works are completed and full pressures obtained in the High Service District.

To further increase the pressures below Fifty-ninth street, it will be necessary to lay several large mains from the reservoirs in Central Park to the lower part of the city, and as the moneys appropriated are only sufficient to lay the small mains necessary for new streets and buildings, I recommend that \$1,000,000 be asked for, to be provided by an act of the Legislature allowing the issue of bonds for this purpose.

Respectfully yours, G. W. BIRDSALL, Chief Engineer of Croton Aqueduct.

## DOCUMENT "D"—REPORT OF WATER PURVEYOR.

WATER PURVEYOR'S OFFICE, NEW YORK, January 7, 1896. Gen. C. H. T. COLLIS, Commissioner of Public Works:

SIR—In compliance with your instructions I have the honor to herewith submit my report of the operations of this office for the quarter ending December 31, 1895, and also my yearly report, exhibiting all the expenditures of this office for the year 1895, together with a statement showing amount of work done and also balances of appropriations on hand belonging to this office.

On the commencement of the year 17 contracts were in existence, 93 contracts were entered into and 81 contracts were completed at a cost of \$239,183.71.

The most important of these completed contracts are as follows: Regulating, grading, etc., One Hundred and Thirtieth street, from Convent avenue to St. Nicholas terrace; regulating,

grading, etc., One Hundred and Fiftieth street, from Bradhurst avenue to Harlem river; regulating, grading, etc., St. Nicholas terrace, from One Hundred and Thirtieth street to Convent avenue; regulating, grading, etc., One Hundred and Seventy-third street, from Amsterdam avenue to Kingsbridge road; regulating, grading, etc., One Hundred and Seventy-ninth street, from Amsterdam avenue to Kingsbridge road; regulating, grading, etc., College place, from Chambers to Dey street; regulating, grading, etc., One Hundred and Fifty-first street, from Bradhurst avenue to Harlem river.

The most important unfinished contracts are the following, viz.:

Building guard-rail on Boulevard Lafayette, from One Hundred and Fifty-sixth to Dyckman street. The building of this rail is for the safety, health and convenience of the public, inasmuch as it is built on the retaining-wall on this road, which wall at some places is very high.

Regulating, grading, etc., Academy street, from Seaman avenue to Harlem river. This is a filling job calling for 44,000 yards of material, of which amount 20,000 yards have been furnished.

Regulating, grading, etc., Cooper street, from Academy to Isham street. This work is composed wholly of excavation, two-thirds of which is rock; so far 7,200 cubic yards of rock has been excavated.

Regulating, grading, etc., Emerson street, from Seaman to Amsterdam avenue. This contract is progressing favorably, the work called for being mostly earth excavation.

Regulating, grading, etc., Hawthorne street, from Seaman to Amsterdam avenue. This is a very large contract, including earth and rock excavation. So far about 52,000 yards of material has been excavated.

Regulating, grading, etc., St. Nicholas Terrace, from One Hundred and Twenty-seventh to One Hundred and Thirtieth street. This work (mostly rock-cutting) is progressing rapidly, and will be completed in the spring.

Regulating, grading, etc., Ninth avenue, from Two Hundred and First street to Kingsbridge road. The work on this avenue consists principally of filling about 139,000 cubic yards. It will require about eight or nine months to finish it.

Regulating, grading, etc., One Hundred and Eighty-sixth street, from Amsterdam to Wadsworth avenue. Work is progressing on this street, and will be completed about July, 1896.

## APPROPRIATIONS.

Street Improvements—For Surveying, Monumenting and Numbering of Streets. The amount appropriated for this purpose was \$3,000, of which sum \$675 was transferred to "Salaries—Department of Public Works." The amount expended from this appropriation was \$1,811. The outstanding liabilities are estimated at \$502, which leaves an estimated balance of \$12.

Flagging Sidewalks and Fencing Vacant Lots in front of City Property. The amount appropriated for this purpose was \$2,000; \$1,693.74 has been expended; the outstanding liabilities are \$290, leaving a balance of \$16.26. Necessary repairs have been made to the sidewalks around Washington and Jefferson Markets, around the Seventh Regiment Armory, and in front of Fifty-seventh Street Court-house. Repairs have been made to the fences and retaining-walls at Fifty-eighth and Fifty-ninth streets, East river; also to iron railing on Mitchell place.

During the past year there has been done in connection with the work of regulating, grading, curbing, flagging, etc., the following quantities of work, under 81 different contracts, paid for by assessment upon the property interested: 114,665 cubic yards of earth excavation, 118,235 cubic yards of rock excavation, 231,742 cubic yards of filling furnished, 43,008 lineal feet of curbstones set, 7,127 lineal feet of curbstone reset, 231,453 square feet of flagging laid, 4,779 square feet of flagging relaid, 5,700 lineal feet of fence built, 2,145 lineal feet of iron railing, 86 cubic yards of retaining-wall, 245 lineal feet of culvert built, 993 square feet of bridge stone laid.

The consolidation of the Bureau of Street Improvements with that of the Water Purveyor has resulted in much gain to the city. Heretofore this costly work was done without systematic engineering supervision, and was in this respect independent of the department. The work was supervised by City Surveyors, who gave only so much time as might be needed to place the work on lines and grades. This service was not sufficient, but was all that was contemplated in fixing by ordinance the Surveyor's fees. A constant supervision during the progress of the work is required. Now, with the assistance afforded by the engineering force of the Water Purveyor, a constant supervision of the work of the City Surveyors is obtained; in this way correcting and avoiding errors due to the different methods and practices of the City Surveyors for determining street lines and grades. In order to further lessen this difference of the Surveyors, I have prepared instructions setting forth uniform methods and systems for their guidance in the performance of their services.

The requirements of the specifications that the City Surveyors be paid by the contractor for certificates is contrary to law. The law requires that such certificates be paid for by the City and deducted from money due the contractor.

The specifications that I find in use can, I think, be made much plainer. I would suggest in the new specifications about to be printed several changes in the specifications for work, that I think will avoid many of the misunderstandings between the contractors and the Department as to their true intent and meaning.

An inspection of the sidewalks on my entering upon the duties of this office showed many to be in need of repairing. This was particularly the case in the older parts of the city, where the sidewalks had been laid many years and had but slight repairs. It is the duty of the householder or owner to keep his sidewalk in repair, and it is also the duty of this office to see that the repairs are made and to notify the owners. The number of such notices that have been issued during the past year is: 1,301 by the Bureau of Street Improvements, 5,176 by the Bureau of Water Purveyor—Total, 6,477.

The greater part of these have been complied with. I propose to continue to require sidewalks to be put in repair. Where owners neglect or refuse, we ask the Common Council to authorize this Department to make the repairs at the owners' expense. Of the 72 requests made only 28 have been authorized. It is to be regretted that the Common Council has not seen fit to authorize all you have requested, as many of the sidewalks are in a condition dangerous to life, for which the City may be held liable in case of accident. The practice that has been of asking the Common Council to authorize the regulating, grading, etc., of a street immediately on the City acquiring title thereto has caused much dissatisfaction to property-owners, who are called upon to pay the cost a long time before it is possible for them to sell or improve their lots. This has been particularly the case at the upper part of the city (the Kingsbridge District), where isolated streets have been graded at great expense, without even the possibility of access to them. I think it advisable to recommend to the Common Council only such streets for improvement as are required for the public or by the private interests immediately interested in their improvement.

Throughout this district I find the monuments designating street lines much out of position. It is my intention to give a personal supervision to placing them on the true lines.

The records, maps, etc., now filed in this office are very valuable and should be stored in a room absolutely fire and vermin proof, having the proper light and ventilation and space for the inspection of these maps, etc. The present is damp and much too small for the number of maps and books of reference stored therein.

Respectfully, STEVENSON TOWLE, Consulting Engineer.



## Work Done in the Construction of the Lexington Avenue and Pavonia Ferry Railroad Company.

Total feet of double track laid on Lexington avenue, at One Hundred and Sixteenth street, 100 ; total feet of double track laid on Lexington avenue, at One Hundred and Twenty-fifth street, 100 ; total feet of double track laid on Lexington avenue, between One Hundred and Twenty-eighth and One Hundred and Thirty-first street, 750 ; total feet of double track laid on Twenty-third street, at Fifth avenue, 150—Total, 1,100.

Sewer Work—Connections made on vaults built on 1,100 feet of tracks.

Extra Work—Changing from cable to underground electrical construction tracks between One Hundred and Sixth and One Hundred and Thirty-first street. Same completed between One Hundred and Sixth and One Hundred and Sixteenth streets, and also One Hundred and Twenty-fifth and One Hundred and Thirty-first streets.

Paving—Total square yards of granite pavement relaid, between One Hundred and Twenty-eighth and One Hundred and Thirty-first street, on Lexington avenue, 2,250.

## Work Done on Broadway and Seventh Avenue Cable Railroad.

Cross-over put on Seventh avenue, between Forty-ninth and Fiftieth streets ; total feet of single track put in from Fiftieth street to Seventh avenue, 100.

Mason Work—Built large vault on Whitehall street, at State street ; two large vaults now under construction, one on Whitehall street at Water street, and one on State street, near Whitehall street.

Pipe Work—200 feet of 16-inch water-pipe put in on Whitehall street, between Water and State streets.

Work done in the construction of surface railroad on One Hundred and Twenty-fifth street, between Amsterdam avenue and the Boulevard ; on the Boulevard, between One Hundred and Twenty-fifth and One Hundred and Thirtieth streets, and One Hundred and Thirtieth street, from Boulevard to Twelfth avenue ; total feet of double track laid on One Hundred and Twenty-fifth street, between Amsterdam avenue and the Boulevard, 750 ; total feet of double track laid on Boulevard, between Manhattan and One Hundred and Thirtieth streets, 444 ; total feet of double track laid on One Hundred and Thirtieth street, between Boulevard and Twelfth avenue, 921—total, 2,115.

Work done in constructing extension of Third Avenue Cable Railroad on Amsterdam avenue : total feet of double track laid, 2,031 ; total square yards of granite pavement relaid, 2,750.

## NEW PAVEMENTS.

Work on contracts for the construction of new pavements was completed in the following named streets, which are classified according to the different kinds of pavement and under the various funds or appropriations.

## REPAVING (CHAPTER 516, LAWS OF 1894)

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Avenue A.....	North side 59th st. to south side 88th st.....	18,741.49	7,695.30
Length in miles, 1.457.			

## REPAVING (UNDER CHAPTER 449, LAWS OF 1889)

(Streets lying within the limits of grants of land under water.)

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Depseyer st.....	Water to South st.....	644.00	403.00
Burling Slip and John st.....	Pearl to South st.....	4,782.08	605.16
Cuyler's alley.....	Water to South st.....	250.00	357.00
Total.....			
Length in miles, .259.			

## REPAVING (CHAPTER 475, LAWS OF 1895),

With Asphalt.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
58th st.....	7th to 10th ave. and 3d to Lexington ave.....	10,045.00	3,653.00
Madougal st.....	Waverley pl. to Spring st.....	2,800.50	
Waverley pl.....	3d ave. to Macdougal st.....	10,065.00	492.20
Orchard st.....	Division to Houston st.....	8,058.00	2,976.00
22d st.....	1st to 2d ave. and 8th to 11th ave.....	7,741.02	2,345.60
Greenwich ave.....	6th to 8th ave.....	9,120.00	2,156.50
Pine st.....	Nassau to William st.....	912.00	444.30
William st.....	Beaver to Pearl st.....	1,598.00	263.80
Nassau st.....	Wall to Spruce st., except Pins to Liberty st.....	3,435.00	1,571.90
4th st.....	8th to 11th ave.....	8,716.00	2,560.70
71st st.....	1st to 5th ave., except 3d to Madison ave.....	5,900.00	1,772.10
21st st.....	4th to 8th ave., except 5th to 6th ave.....	8,467.00	2,561.80
Allen st.....	Division to Houston st.....	8,063.00	3,978.40
Spring st.....	Sullivan to Greenwich st., except Clark to Hudson st.....	2,673.00	730.30
Clark st.....	Broom to Spring st.....	1,296.00	434.00
Essex st.....	Division to Houston st.....	7,492.00	2,781.70
87th st.....	Avenue A to 1st ave.....	2,110.00	635.00
29th st.....	Madison to 5th ave.....	1,593.00	461.50
43d st.....	5th ave. to railroad tracks.....	1,951.00	532.30
44th st.....	Madison to 5th ave.....	1,520.00	458.20
Total.....			
Length in miles, 6.085.			

## STREET IMPROVEMENT FUND.

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
131st st.....	Park to Lexington ave.....	1,404.63	422.03
Columbus or Convent ave.....	126th to 127th st.....	885.00	216.00
Park ave.....	5th to 27th st.....	1,362.44	221.00
103d st.....	Park to Madison ave.....	1,374.00	412.16
65th st.....	1st ave. to Ave. A.....	2,008.00	630.25
Total.....			
Length in miles, .366.			

With Asphalt Block.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Manhattan ave.....	100th to 103d st.....	3,325.40	701.00
Length in miles, .133.			

With Asphalt.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
147th st.....	Amsterdam ave. to Boulevard.....	2,696.66	810.00
140th st.....	Amsterdam ave. to Hamilton pl.....	1,250.00	374.50
142d st.....	Central Park, West, to Manhattan ave.....	1,350.00	46.00
101st st.....	Lexington to Park ave.....	1,427.00	427.50
117th st.....	Amsterdam ave. to Morningside ave., West.....	1,583.00	474.20
Total.....			
Length in miles, .472.			

## REPAIRS AND RENEWAL OF PAVEMENTS AND REGRADING.

Resurfacing—Macadam.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Boulevard.....	119th to Manhattan st.....	7,593.00	2,383.90
Length in miles, .451.			

## RELAYING PAVEMENT.

With Specification Granite-blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Columbus ave.....	65th to 77th st.....	11,522	.....
Length in miles, .451.			

## SUMMARY FOR THE YEAR 1895.

## RECEIPTS.

The following amounts were received and deposited with the City Chamberlain :  
For the construction of vaults ..... \$155,561.75  
For work and materials ..... 19,174.30

Total.....

EXPENDITURES.	
\$14,640.29	Repaving (Chap. 346, Laws of 1889), 1889. \$2,934.73
236,302.36	Repaving (Chap. 346, Laws of 1889), 1890. 93.84
21.50	Repaving (Chap. 35, Laws of 1892), 1893. 2,740.92
18,044.76	Repaving (Chap. 35, Laws of 1892), 1894. 15,798.87
766.12	Repaving (Chap. 475, Laws of 1895), 1895. 132,210.52
6,804.38	Salary of Consulting Engineer on Pavements, etc. 154,648.76
968.48	Street Improvement Fund. 309,841.90
31,460.95	Restoring and Repaving—Special Fund, Department of Public Works. 92,366.03
6,908.51	155th st. Viaduct, Maintenance and Repairs. 154.00
801.06	Contingencies, Department of Public Works, 1894. 22.75
1,351,152.19	Contingencies, Department of Public Works, 1895. 193.13
238.48	For advertising for all Departments and County officers, etc. 46.20
1,509.11	Total. \$1,258,896.03

## PERMITS ISSUED.

305 for the construction of vaults ; 197 for repairs to vaults ; 196 for placing guy-posts ; 568 for placing boilers and engines on the streets for building purposes ; 579 for building fires under tar kettles ; 54 for repairs to pavements at expense of applicants.

And the following special permits : To the Barber Asphalt Paving Co., for repaving with asphalt the roadway of Liberty street, from 125 feet east of Nassau street to the easterly end of the Mutual Life Insurance Co's building, viz. : 205 square yards, 113 feet in length. To the American Torbay Karri Wood Paving Co., for a Karri wood pavement on Twentieth street, between Broadway and Fifth avenue, viz. : 1,015 square yards, 307.6 feet in length. Both of these areas were paved without expense to the city.

## REPAIRS AND RENEWAL OF PAVEMENTS AND REGRADING.

The force employed in making repairs

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Gouverneur Slip.....	Water to South st.....	584.00	97.00
Jackson Slip.....	"	2,017.36	235.50
Jones lane.....	Front to South st.....	332.00	210.00
13th ave., east side.....	24th to 25th st.....	473.44	191.70
Bedester st.....	Water to South st.....	674.00	401.70
Burling Slip and John st.....	Pearl to South st.....	4,782.08	6,16
Cuyler's alley.....	Water to South st.....	260.00	357.00
Total.....		39,010.88	8,909.37

Length in miles, 7.388.

## REPAVING (CHAPTER 35, LAWS OF 1892,)

With Asphalt.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Centre st.....	Leonard to White st.....	2,213.22	504.47
38th st.....	Broadway to 6th ave.....	1,157.21	350.58
39th st.....	"	1,422.00	434.57
61st st.....	Madison to 6th ave.....	1,533.49	461.30
80th st.....	Park to Lexington ave.....	1,414.51	430.15
Total.....		7,720.40	2,181.67

Length in miles, 0.413.

## REPAVING (CHAPTER 516, LAWS OF 1894,)

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Avenue A.....	59th to 88th st.....	18,741.49	7,695.40

Length in miles, 1.457.

## REPAVING (CHAPTER 475, LAWS OF 1895,)

With Asphalt.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
58th st.....	7th to 10th ave., and 3d to Lexington ave.....	10,645.00	3,053.20
Macdougal st.....	Waverley pl. to Spring st.....	10,065.00	2,800.50
Waverley pl.....	5th ave., to Macdougal st.....	499.20	130.00
Orchard st.....	Division to Houston st.....	8,588.00	2,076.90
21st st.....	4th to 8th ave., except 5th to 6th ave.....	8,467.00	2,561.80
22d st.....	1st to 2d ave. and 8th to 9th ave.....	7,741.00	2,345.00
Greenwich ave.....	6th to 8th ave.....	9,120.00	2,156.50
Pine st.....	Nassau to William st.....	912.00	404.30
William st.....	Beaver to Pearl st.....	1,598.00	263.83
Nassau st.....	Wall to Spruce st., except Pine to Liberty st.....	3,435.00	1,571.90
40th st.....	8th to 11th ave.....	8,716.00	2,560.70
71st st.....	1st to 5th ave., except 3d to Madison ave.....	5,905.00	1,772.10
Allen st.....	Division to Houston st.....	8,053.00	3,078.40
Spring st.....	Sullivan to Greenwich st., except Clarke to Hudson st.....	6,673.00	730.30
Clarke st.....	Broome to Spring st.....	1,296.00	434.00
Essex st.....	Division to Houston st.....	7,462.00	2,781.70
57th st.....	Avenue A to 1st ave.....	2,110.00	635.00
39th st.....	Madison to 5th ave.....	1,503.00	461.50
43d st.....	5th ave. to railroad tracks.....	1,951.00	582.30
44th st.....	Madison to 5th ave.....	1,526.00	458.20
Total.....		101,247.00	32,127.90

Length in miles, 6.085.

## STREET IMPROVEMENT FUND.

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
113th st.....	Amsterdam ave. to Boulevard.....	2,654.50	812.16
156th st.....	Amsterdam to St. Nicholas ave.....	688.00	207.00
160th st.....	"	362.00	108.66
161st st.....	4th ave. to Harlem river.....	242.00	75.00
136th st.....	Boulevard to N. Y. C. and H. R. R.....	2,223.00	669.00
160th st.....	Amsterdam ave. to Boulevard.....	3,232.00	697.00
170th st.....	"	3,655.00	821.00
96th st.....	Park to 5th ave.....	3,873.22	814.00
132d st.....	12th ave. to N. Y. C. & H. R. R. R.....	5,735.00	860.10
131st st.....	Park to Lexington ave.....	340.00	102.00
Columbus (or Convent) ave.....	126th to 127th st.....	1,404.63	422.00
Park ave.....	96th to 97th st.....	885.00	216.00
103d st.....	Park to Madison ave.....	1,382.44	221.00
65th st.....	1st ave. to Avenue A.....	1,374.00	412.16
Total.....		29,274.79	7,668.23

Length in miles, 1.341.

With Asphalt Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Manhattan ave.....	10th to 103d st.....	3,305.40	701.00

Length in miles, 0.133.

With Asphalt.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
102d st.....	Columbus to Manhattan ave.....	1,264.00	379.00
67th st.....	West End ave. to Hudson river wall.....	1,354.00	406.83
112th st.....	7th to 8th ave.....	2,739.02	622.25
115th st.....	Morningside Park, East, to Manhattan ave.....	702.86	230.00
Convent ave.....	146th to 149th st.....	3,175.00	719.50
4th ave. (east side)	33d to 34th st.....	524.10	208.45
147th st.....	Amsterdam ave. to Boulevard.....	2,666.66	810.00
140th st.....	Amsterdam ave. to Hamilton pl.....	1,450.00	374.50
102d st.....	Central Park, West, to Manhattan ave.....	1,350.00	406.00
101st st.....	Lexington to Park ave.....	1,427.00	427.50
117th st.....	Amsterdam ave. to Morningside ave., West.....	1,583.00	474.90
Total.....		18,125.62	5,058.93

Length in miles, 0.958.

With Macadam.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
181st st.....	Amsterdam to 11th ave.....	3,905.70	814.00

Length in miles, 0.150.

## REPAIRS AND RENEWAL OF PAVEMENTS AND REGRADING.

Resurfacing—Macadam.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Boulevard.....	119th to Manhattan st.....	7,590.00	2,383.90

Relaying Pavement.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Columbus ave.....	65th to 77th st.....	11,522.00	3,120.00

RECAPITULATION.

	GRANITE.		ASPHALT.		ASPHALT BLOCK.	
	Square Yards.	Miles.	Square Yards.	Miles.	Square Yards.	Miles.
Repaving streets and avenues.....	2,239.83	0.15	.....	.....	.....	.....
Repaving (chapter 449, Laws 1889).	39,010.88	7.38	.....	.....	.....	.....
Repaving (chapter 35, Laws 1892).	.....	.....	7,739.40	0.41	.....	.....
Repaving (chapter 516, Laws 1894).	18,741.49	1.46	101,247.00	6.06	.....	.....
Repaving (chapter 475, Laws 1895).	29,274.99	1.34	18,125.62	0.96	3,305.40	0.13
Street Improvement Fund.....	89,267.24	10.33	127,358.02	7.47	3,305.40	0.13

issue of bonds in sufficient amount to enable the Department of Public Works to asphalt in front of all public schools.

There are on this island at present 31 of 38 primary schools without asphalt and 63 of the 83 grammar schools. The approximate area of asphalt required for those schools is 243,430 square yards, costing \$973,720.

In addition to the public schools above mentioned 40 hospitals require approximately 99,460 square yards of asphalt, costing \$397,840, making the total for public schools and hospitals \$1,371,560. There are, doubtless, many parochial and private schools with private hospitals that would present nearly as strong claims as the public institutions, but sufficient data are not in hand to justify an estimate of the cost of asphalting about them. A small effort on the part of friends of public education and of the hospitals could doubtless secure an appropriation of sufficient funds to enable you to lay a noiseless and sanitary pavement in front of all the above-mentioned institutions, and in the course of one or two years more the other schools and hospitals in the city could be provided with asphalt pavement from the current appropriations.

The amounts mentioned above, aggregating about \$6,500,000, constitute a large sum absolutely. But in comparison with the \$80,000,000 expended in this city for the construction of private buildings during 1895, it is only a matter of 8½ per cent., and as most of the proposed expenditure will be distributed over 15 years by the contracts for maintenance, it may be fairly said that the sum, large as it is, will amount to but little more than one-half per cent. on the probable yearly expenditure for private buildings in this city during the fifteen years the maintenance contracts will run. On the other hand, if only \$1,000,000 or \$1,250,000 per year is available for repaving, the amount necessary for this work will be constantly increasing, while the industries of the city are handicapped by the high cost of distribution.

#### STREET OPENINGS.

The report of the Inspector General of Street Openings shows that 21,257 separate permits have been issued for sewer, gas and water connections and repairs to the same. In addition to the above, 76.7 miles of gas and electric pipes and single and double track street railways have been laid. The estimated cost of the work done by the various companies who have rights derived from legislative enactments to open the streets of this city, including the cost of the plumber's openings, is \$4,350,000.

It to the openings mentioned above the openings made by the Croton Aqueduct Department and by cut-off gangs to stop leaks, etc., are added, the number of cuts made in the city pavements during 1895 will have been about 50,000, or decidedly over 100 per mile of paved street. Leniency in enforcing the obligations to make repairs has resulted in material damage to the pavements of the city, and great pecuniary loss to those engaged in transporting the merchandise consumed in this city. It has been found practicable to enforce repairs on the gas and other companies doing business in the city, but without a larger force of inspectors than have been employed in the past, the small cuts made by plumbers and others cannot be efficiently supervised. In the past their operations have occasioned the greatest damage to the streets, as they have failed to compact the earth properly when filling their ditches, and holes in the pavement have resulted. In addition to this, the streets are sometimes unnecessarily obstructed by leaving the ditches open for a long time, apparently that building materials may be stored under their shelter.

While no regulations should be made that will add unnecessary cost to building operations in this city, the right to an unobstructed use of the streets is equally necessary, and the one-third of the street width now allowed to builders should not be extended by the maintenance of open or unpaved cuts for that purpose. Under your instructions, orders are now issued to have the refilling of all those street openings—generally known as plumbers' openings—done under the supervision of the trained inspectors of your Department, the cost of such inspection being borne by those who make the openings. This will doubtless result in more careful refilling and prompter replacing of the pavement.

#### FIRE ON PAVEMENTS.

The practice by children and others of lighting fires on the pavements results in considerable injury. No account has been kept of the damage to granite and trap pavements, but on the asphalt pavements the damage done by 1,232 separate fires during 1895 has been measured. The burned area repaired amounted to 3,692 square yards, as compared with 3,410 square yards during 1894. The additional expense borne by the taxpayers on this account for the two years has been about \$16,000. You have written repeatedly to the Police Commissioners who alone are able to stop the practice, and since November last there has been a decrease in the number of fires. In some localities this decrease has been marked, as on Henry street, from Oliver to Rutgers street, where the area burned was decreased from 442 to 191 square yards, and on Twenty-sixth street, which had 433 yards burned in 1894 and 236 in 1895. On the other hand, on Willett street, the area burned increased from 141 to 294 square yards. On Rivington street the increase was from 141 to 342, and on Sixteenth street the area burned went up from 10 square yards in 1894 to 142 in 1895. It is hoped that in the future your Department will have more active assistance from the police in suppressing this cause of expense.

#### WATERING ASPHALT PAVEMENTS.

An asphalt pavement affords as good a foothold as any pavement known when it is clean, but on a moist and dirty asphalt pavement a horse is in danger of a fall at any working speed.

Through much of the last summer and fall many of the asphalt pavements were made dangerous by injudicious watering, and the difficulty has been greatest with thoroughfares of the most traffic. The practice has been to sprinkle the streets so copiously as to convert the dirt on the pavement into a slippery mud, but not copiously enough to make a fluid mud. The result was that it has been impossible to remove the mud either with brooms or other practical appliances.

An asphalt pavement, when dirty, should have a sufficiently copious supply of water to make the result a mud fluid which can be partially removed by brooms, or entirely removed by squeegees (an amplification of the rubber blade used for cleaning windows). If the company watering the streets cannot supply sufficient water to make the mud fluid, they should be urged to so reduce the holes in their sprinklers that no mud will be formed, even at the cost of an increased number of sprinklers, or else watering the streets should be put in the hands of those who clean them.

All of which is respectfully submitted. EDWARD P. NORTH, Water Purveyor.

#### DOCUMENT "E."—REPORT OF ENGINEER IN CHARGE OF SEWERS.

OFFICE OF ENGINEER IN CHARGE OF SEWERS, January 7, 1896. Hon. C. H. T. COLLIS, Commissioner of Public Works:

DEAR SIR—In compliance with your instructions I hand you herewith my report of the transactions of the office of the Engineer in Charge of Sewers for the quarter ending December 31, 1895.

15,001 linear feet of new sewers and 9 receiving-basins connected therewith have been built, making the present total length of the sewerage of the city 2,471,593 linear feet (468 20.100 miles), with 5,549 receiving-basins, which number includes 15 built under special contract as hereafter stated.

In the schedule accompanying this report you will find a detailed statement showing the status of the several contracts under charge of this office.

26 sewer contracts and 6 basin contracts have been completed, viz: Sewer in Seventy-ninth street, both sides, between West End avenue and Boulevard; sewer in Seventy-ninth street, both sides, between Riverside and West End avenues; sewer in Ninety-ninth street, between Riverside and West End avenues; sewer in One Hundred and Fifth street, between Riverside and West End avenues; sewer in One Hundred and Eleventh street, between Manhattan and Eighth avenues; sewer in One Hundred and Nineteenth street, between Amsterdam and Morningside avenues, West; sewer in One Hundred and Twenty-third street, between Boulevard and Amsterdam avenue; sewer in One Hundred and Thirtieth street, between Amsterdam and Convent avenues; sewer in Fourth avenue, between Tenth and Eleventh streets; sewer in Fourth avenue, between Twelfth and Thirteenth streets; sewer in Fifth avenue, between Ninth and Tenth streets; sewer in Eighth avenue, between One Hundred and Fiftieth and One Hundred and Fifty-third streets; sewer in Eleventh avenue, east side, between One Hundred and Eighty-third and One Hundred and Eighty-fourth streets; sewer in West Broadway, between Barclay and Murray streets; sewer in Macomb's Dam road, between One Hundred and Forty-ninth and One Hundred and Fifty-second streets; sewer in Cathedral Parkway, between Riverside avenue and Boulevard; sewer in St. Nicholas avenue, east side, between One Hundred and Thirty-seventh and One Hundred and Forty-first streets; sewer in Pleasant avenue, between One Hundred and Fourteenth and One Hundred and Fifteenth streets; sewer in Convent avenue, west side, between One Hundred and Twenty-seventh and One Hundred and Thirty-first streets; extension of outlet sewer in Stanton street, at East river; alteration and improvement to sewer in Sixth street, between East river and Avenue D; alteration and improvement to sewer in Seventy-sixth street, between Park and Madison avenues; alteration and improvement to sewer in Eighty-sixth street, between East river and East End avenue; alteration and improvement to sewer in First avenue, between Thirty-first and Thirty-third streets; alteration and improvement to sewer in Fifth avenue, east side, between Ninetieth and Ninety-eighth streets; receiving-basin on the southeast corner of Bethune and Greenwich streets; receiving-basin on the north and south sides of One Hundred and Forty-sixth streets, at New York Central and Hudson River Railroad wall; receiving-basin on the southeast corner of Seventy-third, Seventy-fourth and Seventy-fifth streets and Riverside avenue; receiving-basin on the south side of One Hundred and Fifty-eighth street, about 477 feet west of Boulevard Lafayette; receiving-basin on the northeast corner Seventy-seventh street and southeast corner Eighty-second and Eighty-third streets and Riverside avenue; receiving-basin at the northeast corner Elm and White streets; catch-basin on South street, between Rutgers Slip and Clinton street; alteration and improvement to receiving-basins on the southeast corner One Hundred and Twentieth street and Boulevard and southwest corner of One Hundred and Twentieth street and Amsterdam avenue. There are now in progress 17 contracts for new sewers and 4 basin contracts. 1,659 receiving-basins and 33,608 linear feet of sewer have been cleaned.

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

Report of the Transactions of the Office of the Engineer in Charge of Sewers for the Quarter ending December 31, 1895.

APPROPRIATIONS.	AMOUNT.	AMOUNT.
Credit to General Fund—Amount received for 257 permits for sewer connections.....	.....	\$6,645 04
Engineer's Fees—Amount of Engineer's fees assessed on property benefited and charged to Street Improvement Fund.....	.....	11,206 99
Sewers—Repairing and Cleaning—Balance on hand September 30, 1895.....	.....	30,388 86
Vouchers transmitted to the Commissioner of Public Works—		
Pay-roll of Laborers, etc.....	\$21,552 50	
Cleaning.....	2,253 51	
Sundries.....	3,516 57	
Balance, December 31, 1895.....	3,056 28	
Sewers—Repairing and Cleaning for 1894—Balance on hand September 30, 1895.....	.....	30,388 86
Vouchers transmitted to the Commissioner of Public Works—		
Sewer pipe.....	\$31 87	
Balance December 31, 1895.....	238 40	
Sewers—Repairing and Cleaning—Salaries—Balance on hand September 30, 1895.....	.....	270 27
Vouchers transmitted to the Commissioner of Public Works—		
Pay-roll of Inspectors, etc.....	\$2,525 98	
Balance, December 31, 1895.....	123 98	
Sewerage System—Salaries—Balance on hand September 30, 1895.....	.....	2,649 96
Vouchers transmitted to the Commissioner of Public Works—		
Pay-roll of Engineers, etc.....	\$2,025 01	
Balance, December 31, 1895.....	211 07	
Boring Examinations for Grading, etc.—Balance on hand September 30, 1895.....	.....	2,236 88
Vouchers transmitted to the Commissioner of Public Works—		
Pay-roll of Assistant Foreman, etc.....	\$936 00	
Balance, December 31, 1895.....	1,309 50	
Restoring and Repaving—Special Fund—Amount received for permits for street openings—	.....	2,245 50
Street Improvement Fund—Vouchers transmitted to the Commissioner of Public Works—		
Pay-roll of Engineers, etc.....	\$5,070 13	
Pay-roll of Inspectors, etc.....	7,322 95	
Contracts, etc.....	95,201 53	
		108,499 61

#### Work Done by Mechanics and Laborers.

464 receiving basins relieved, 1,659 receiving-basins and culverts cleaned, 20,086 linear feet of sewer cleaned, 8,260 linear feet of sewer relieved, 94,543 linear feet of sewer examined, 121 linear feet of brick sewer rebuilt, 141 linear feet of box sewer rebuilt, 9 linear feet of brick culvert rebuilt, 18 linear feet of pipe culvert laid, 27 linear feet of pipe sewer laid, 18 linear feet of spur pipe laid, 28 linear feet of new curb set, 92 linear feet of curb reset, 3 new manholes built, 1 manhole repaired, 29 basins repaired, 88 manhole heads reset, 16 basin heads reset, 50 new manhole heads and covers put on, 8 new basin heads and covers put on, 19 new basin covers put on, 90 new manhole covers put on, 17 new basin heads and covers put on, 39 new basin grates put in, 1,871 cubic feet of brick work built, 288 square feet of flagging relaid, 411 square yards of pavement relaid, 1,433 cubic feet of earth excavated and filled, 30 cart loads of earth filling, 4,081 cart loads of dirt removed.

Statement Showing the Amount of Work Done on Uncompleted Contracts for the Quarter ending December 31, 1895.

DATE.	NATURE AND LOCATION OF WORK.	ESTIMATED COST.	ESTIMATED AMOUNT OF WORK DONE.	DAYS.	REMARKS.	
				ALLOWED.	CONSUMED.	REMAINING.
1894.						
July 20	Sewer in Marginal street, bet. 107th and 110th sts., with branches in 107th, 108th and 109th sts., bet. Marginal st. and 1st ave.....	\$20,082 65	\$19,240 60	300	290	10
1895.						
Feb. 21	Alteration and improvement to sewer in Central Park, West, west side, bet. 62d and 70th sts., and to curves at 63d, 64th, 65th and 66th sts.....	15,543 60	13,280 00	250	205	45
Mar. 30	Sewer in Cathedral Parkway, bet. Columbus and Amsterdam aves.....	7,875 00	7,100 00	200	170	30
Apr. 15	Sewer in 130th st., bet. Convent ave. and St. Nicholas Terrace.....	6,163 00	5,787 00	175	175	..
May 3	Sewer in 7th ave., east side, bet. 138th and 141st streets.....	5,343 76	4,893 00	150	147	3
" 3	Sewer in Macomb's Dam rd., bet. 132d and 154th sts., connecting with sewer in 153d st., west of Macomb's Dam rd.....	4,735 00	4,450 00	130	160	..
July 10	Sewer in 187th st., bet. Kingsbridge rd. and Amsterdam ave., with branches in 11th ave., both sides, bet. 187th and 190th sts., and curves at Wadsworth, 11th and Audubon aves.....	27,455 00	8,055 00	500	200	300
Aug. 20	Sewer in 11th st., bet. Amsterdam ave. and Morningside ave., West.....	4,224 07	3,205 90	100	90	10
Sept. 5	Sewer in Water st., bet. Market Slip and Jefferson st.....	8,818 75	8,707 00	175	95	80
" 5	Alteration and improvement to sewer in 23d st., bet. Ave. A and East river, and new outlet under pier.....	8,266 00	2,206 07	100	70	30
Oct. 30	Sewer in Convent ave., bet. 135th and 141st sts., with curves in 135th, 136th, 137th, 138th, 139th and 140th sts., bet. Convent and Amsterdam avenues.....	18,093 00	4,935 00	350	40	310
Nov. 7	Alteration and improvement to sewer in 15th st., bet. 1st and 2d aves.....	3,851 75	2,203 00	80	31	49
Dec. 6	Sewer in 5th ave., bet. 12th and 13th sts.....	1,208 00	585 00	25	15	10
" 9	Sewer in Boulevard, east side, bet. 114th and 116th sts.....	4,856 00	.....	80	43	67
" 11	Sewer in 1st ave., bet. 47th and 48th sts.....	2,871 00	.....	80	7	73
" 11	Alteration and improvement to sewer in Central Park, West, bet. 90th and 91st sts., with connections to present sewers in 90th and 91st sts.....	2,707 50	.....	80	5	75
" 16	Sewer in 179th st., bet. Amsterdam ave. and Kingsbridge rd.....	10,323 00	.....	220	..	..
Nov. 29	Storm overflow to basin northwest cor. Rutgers Slip and South st.....	226 50	204 00	3	3	..
" 25	Receiving-basin northeast, southeast and southwest cor. 135th st. and 7th ave.....	572 00	535 00	8	8	..
Dec. 6	Receiving-basin northeast cor. Madison ave. and 80th st.....	219 50	206 50	3	5	..
" 6	Receiving-basin southwest cor. 99th st. and Lexington ave.....	459 00	408 00	6	7	..

NEW YORK, January 13, 1896. Hon. CHARLES H. T. COLLIS, Commissioner of Public Works:

DEAR SIR—I beg leave to submit to you the following annual report of

Seventy-third street and a point about 316.5 feet north of One Hundred and Seventy-eighth street, and sewers on north and south sides of One Hundred and Seventy-fifth street, between Amsterdam and Wadsworth avenues, and curves in Eleventh avenue; St. Nicholas avenue, east side, between One Hundred and Thirty-seventh and One Hundred and Forty-first streets, with alterations and improvement to curve at One Hundred and Thirty-seventh street and St. Nicholas avenue; Lexington avenue, between Ninety-ninth and One Hundred and Third streets, and in One Hundred and Second street, between Lexington and Third avenues; St. Nicholas avenue, west side, between One Hundred and Forty-first and One Hundred and Forty-fifth streets, with alterations and improvements to curve at One Hundred and Forty-first street and St. Nicholas avenue; Amsterdam avenue, west side, between Eighty-third and Eighty-fifth streets; Ninety-fifth street, between West End and Riverside avenues; One Hundred and Seventeenth street, between Amsterdam avenue and Morningside avenue, West; One Hundred and Twenty-seventh street, between Boulevard and Riverside avenue, and in Claremont avenue, between One Hundred and Twenty-seventh street and Claremont place; One Hundred and Sixty-second street, between Eleventh avenue and Kingsbridge road, and in Kingsbridge road, west side, between Amsterdam avenue and One Hundred and Sixty-second street; Kingsbridge road, between Dyckman street and Naegle avenue; outlet sewer in Dyckman street, between Hudson river and Kingsbridge road, with curve in F street; One Hundred and Twenty-first street, between Boulevard and Amsterdam avenue; One Hundred and Twenty-second street, between Boulevard and Amsterdam avenue; Eighth avenue, between One Hundred and Fiftieth and One Hundred and Fifty-third streets, with branches in One Hundred and Fifty-first and One Hundred and Fifty-second streets; Convent avenue, west side, between One Hundred and Twenty-seventh and One Hundred and Thirty-first streets, connecting with sewer in One Hundred and Twenty-seventh street; One Hundred and Twenty-third street, between Boulevard and Amsterdam avenue; Seventy-ninth street, both sides, between West End avenue and Boulevard.

The work of altering and improving the existing system has been carried on to a considerable extent during the past year, and the following are worthy of special mention: Alteration and improvement to sewer in Twenty-third street, between North river and Tenth avenue; to sewer and connection in Eleventh avenue, between Twenty-third and Twenty-seventh streets, and to sewer in Thirteenth avenue, east side, between Ninetieth and Ninety-eighth streets, and to curves in Ninety-first, Ninety-second, Ninety-third, Ninety-fourth, Ninety-fifth and Ninety-sixth streets; alteration and improvement to sewer in Elm street, between Catherine lane and Leonard street, and in Leonard street, between Elm street and Broadway; alteration and improvement to sewer in Columbus avenue at Seventy-fifth street; alteration and improvement to sewer in First avenue, between Thirty-first and Thirty-third streets, and to curves in Thirty-first and Thirty-second streets; alteration and improvement to sewer in Sixth street, between East river and Avenue D; alteration and improvement to sewer in Seventy-sixth street, between Park and Madison avenues; alteration and improvement to sewers in Eighty-sixth street, between East river and East End avenue.

The largest and most important works completed during the year, were the sewers in Kingsbridge road and Dyckman street, extending from Naegle avenue along Kingsbridge road to intersection with Dyckman street, thence westerly to the Hudson river at a distance, all told, of 4,300 feet; although built under two contracts they form with the additional portion extending on Kingsbridge road from Naegle avenue to One Hundred and Seventy-fifth street, one main trunk sewer, draining an area of 356 acres. The whole territory forming the westerly slope of the Fort George Hill, extending from One Hundred and Seventy-fifth to One Hundred and Ninetieth street, is now open for improvement, as well as the easterly slope of country between those streets and bounded east and west by Kingsbridge road and Fort Washington Ridge road.

North of One Hundred and Seventy-fifth street, on the lands sloping toward the Harlem river, a new outlet must be provided near One Hundred and Ninetieth street, and land must be acquired for the same. There should also be taken for drainage purposes, land for at least two outlets on the Hudson river slope, at suitable points for draining the Fort Washington Ridge road and the Boulevard Lafayette, since in neither case are there any streets leading to the Harlem or Hudson rivers, and the topography is such that none are likely to be opened at such places. As legal proceedings are proverbially slow I would suggest that survey of the property needed be undertaken at once, and the maps filed as soon as possible, so that this department can be prepared to build these outlets as soon as needed.

Next in importance was the contract for sewer on the west side of Amsterdam avenue, between One Hundred and Seventy-third and One Hundred and Seventy-eighth streets, and both sides of One Hundred and Seventy-fifth street, between Amsterdam avenue and Kingsbridge road.

This, although not an outlet sewer, receives all the drainage of intermediate streets, between Amsterdam and Eleventh avenues, and enabled the Department to finish the system in that neighborhood.

Sewers have also been built in Cathedral Parkway, formerly One Hundred and Tenth street, between Central Park, West, and Riverside Drive.

This improvement was undertaken in advance of the widening and paving of this street by the Department of Parks.

Three sewers were built in lower Fifth avenue, viz.: Between Ninth and Tenth, Sixteenth and Seventeenth, and Seventeenth and Eighteenth streets. The necessity for these sewers illustrates the condition of many thickly populated sections of the city. The houses on these blocks were probably built forty years ago, and by private drains were sewered into the side streets, sometimes in front of same and sometimes through the rear.

Such arrangements are now condemned by the Board of Health, and every new building that is erected in place of an old one torn down is required to drain into a public sewer.

This was the cause of building these sewers as well as several others, among which I might mention sewers in Fourth avenue, between Tenth and Eleventh streets, and Twelfth and Thirteenth streets. In this connection I would like to remark, that in the solidly built up portion of the city there are more than 15 miles of streets which have no public sewers, and where the drainage of every house would be condemned if examined by inspectors of the Board of Health.

It is probable that it will not be found feasible to build sewers in these streets except when required by the erection of new buildings.

I might also mention sewers in St. Nicholas avenue, east side, between One Hundred and Thirty-seventh and One Hundred and Forty-first streets, and west side, between One Hundred and Forty-first and One Hundred and Forty-fifth streets. These are local sewers, but they complete the sewerage of this avenue, and being under the sidewalks no tearing up of the roadway will ever occur on account of drainage.

As to those sewers built under the title of Alteration and Improvement, it is proper to say that such works have a very important bearing upon the general efficiency of the sewer system. They have been generally undertaken in connection with river-front improvements made by the Department of Docks. For instance, whenever a new pier is built a new outlet barrel or box sewer, if needed, is built at the same time, and in connection therewith various sewers discharging through the same must be adapted to the new outlet.

In this way a large amount of old sewer which had sunken down and become generally dilapidated has been rebuilt.

During the past season it was found that a new outlet was needed at West Twenty-third street. The district in which it lies contained over 800 acres and was all discharged at West Seventeenth street, through the medium of an intercepting sewer, which covered the river front from Seventeenth to Twenty-ninth streets. This having sunk below the grade in many places to considerable depth and being otherwise ineffective, a new outlet was required and now drains about one-half the district into the Hudson river at Twenty-third street.

Another work of considerable importance was the rebuilding of the sewer in Fifth avenue, between Ninetieth and Ninety-eighth streets. This consisted in changing from pipe to brick construction, enlarging the capacity and thus removing many causes of back water and floods in neighboring houses.

In this place I would like to remark that this is a sample of many similar changes that have been made in the past and must be made in the future. Between the years 1868 and 1872 the pipe sewer system was largely extended into unoccupied streets, about 35 miles being built during that period. The material used was much inferior to that now furnished in the market and the pipes were laid on the ground without concrete foundation, resulting in great variations in line and grade. These sewers have now outlived their usefulness, and in my opinion should all be rebuilt.

Unfortunately they are largely located in streets which are built up with fine residences. Reconstruction is a great annoyance to residents, and the matter is put off as long as possible. A case in point is the sewer in Seventy-sixth street, between Madison and Park avenues, which was rebuilt this season.

Having broken down completely and stopped the drainage for several blocks, the water was kept in motion by steam pumps until temporarily repaired. Afterward a contract for entirely rebuilding was let and executed.

Such occurrences show that it would be good policy to at once rebuild many miles of these sewers without waiting for an absolute failure.

The following alterations and improvements were made necessary on account of new outlets, viz.: Stanton street, Sixth street and Thirty-first street, on the East river, considerable changes being made to sewers in the neighborhood. A new outlet was built at Eighty-sixth street and East river for the purpose of carrying the sewage further out into the stream and remedying a case of flooding which had frequently occurred in the neighborhood.

The river front is now fairly well protected from the nuisances caused by sewers emptying their contents into dead water at the bulkhead line. With a few notable exceptions, all the sewers which were particularly objectionable on that account have been carried out to the end of the piers, where they discharge into deep water.

This is the only practicable place for final disposal of sewage in this city.

On account of our peculiar location, schemes of application to land, filtration or chemical precipitation, are entirely out of the question. As at present disposed of into deep water, and strong

tidal currents the amount of sewage is infinitesimal in comparison to the vast body of water into which it is discharged.

Certain additional outlets would be advantageous so as to diminish the volume of sewage disposed of at any one point.

Sewer work being the lowest construction in our streets ought to be done first, especially ought it to be done in advance of pavements. I should recommend therefore that work be started in all unpaved streets which are now in condition to do so, and that a study be made of all streets now covered with old pavement which is likely soon to be taken up and relaid with a new block or asphalt pavement, and that in all cases where there are no sewers or where those now in use require rebuilding the work should be undertaken without delay. A good portion of this preliminary work should be done during the winter season so that actual construction might begin in the early spring.

Of the work now in progress there are worthy of mention the following: New outlet at East Twentieth street, which conveys the sewage to the end of the pier, removing the point of disposal from the inner end of the ferry slip to that place; Marginal street, between One Hundred and Seventh and One Hundred and Tenth streets, with branches in One Hundred and Seventh, One Hundred and Eighth and One Hundred and Ninth streets, now about completed; One Hundred and Eighty-seventh street, between Kingsbridge road and Amsterdam avenue; the latter is only a local sewer, but it covers considerable ground of that new area recently thrown open to improvement by the completion of the Dyckman street outlet before mentioned.

At least a dozen houses are now being built which will drain into it, showing how rapidly building follows sewerage. Boulevard Lafayette, between One Hundred and Fifty-eighth street and summit north. This is the beginning of the sewerage of the district lying on the Hudson river slope, north of One Hundred and Fifty-fifth street. The street has been recently graded and one or two houses are about to be built. This is a work of some magnitude, being 1,600 feet long and estimated to cost over \$18,000. The sewer in Naegle and Eleventh avenues, between Academy and One Hundred and Ninetieth streets is also a large work, estimated to cost about \$36,000.

Some very important works are contemplated for the coming season. The largest is the change of outlet from One Hundred and Forty-seventh street and Harlem river to One Hundred and Forty-fifth street. This improvement is one of great importance. It is intended to correct a defect in the planning of the original outlet at One Hundred and Forty-seventh street, in that the main trunk sewer, descending the steep grade of One Hundred and Forty-fifth street, drops into the sewer in Eighth avenue, which is about tide level, flows thence to One Hundred and Forty-seventh street and thence to Harlem river. From Eighth avenue and One Hundred and Forty-fifth street to outlet there were always large deposits of mud brought down from the highlands, and it had sunk and got considerably out of repair.

One serious break occurred some years ago which cost the City a large sum for damages. It requires frequent cleaning and at great cost to correct this state of affairs. To give a direct outlet to the river and at the same time to furnish sewerage for the two blocks of One Hundred and Forty-fifth street, viz.: Sixth to Eighth avenue, this improvement is proposed.

Another important change which must be made very soon is the rebuilding of sewers in One Hundred and Twenty-fifth street, between Lenox and Eighth avenues. The present sewer is of pipe and lies in the centre of the street and beneath the tracks of the cable railway. It has settled considerably and frequently becomes obstructed with dirt. The cleaning being accomplished by flushing is slow and tedious on account of the frequent passage of cars which makes it necessary to remove the hose from across the tracks every few minutes.

For the better accommodation of this portion of One Hundred and Twenty-fifth street, and the improvement of its sanitary condition, I recommend that a sewer be built on either side of One Hundred and Twenty-fifth street, between Lenox and Eighth avenues.

The Cable Railway Company being directly benefited by this change, and requiring it for the drainage of their pulley-vaults, should contribute their share of the expense, and I am of the opinion that an assessment should be enforced against them for the same.

Other important proposed works are: Sewer in Fort Washington avenue, extending for a distance of about 1,400 feet.

The first benefit expected to be derived from this surface drainage is enabling the Department to keep the roadbed in order and prevent dangerous washouts.

The following are important, viz.:

One Hundred and Fifty-eighth street, between Boulevard Lafayette and Eleventh avenue, and in Eleventh avenue, to One Hundred and Sixty-fifth street, a distance of about 2,200 feet; also Fifth avenue, between One Hundred and Thirty-eighth and One Hundred and Fortieth streets, and in One Hundred and Thirty-ninth street, between Fifth and Lenox avenues, with outlet in Harlem river, a distance of about 2,600 feet. Three large contracts were abandoned by the original bidders before the final execution of the papers, for the reason that they became satisfied that they would lose money if they undertook to execute the same under their prices, and the City was put to the expense and delay of readvertising and reletting these contracts.

This is an illustration of the strife now going on to get work among contractors. At no time has it been done for a lower figure than at the present time, and when such prices prevail, it requires great vigilance on the part of inspectors and others in charge to secure proper fulfillment of specifications. Better prices would without doubt produce better work.

As to the general history and condition of the sewer system I submit the following:

The means by which the sewerage and drainage of this city could be conveyed to the surrounding waters of the Hudson and East rivers were adopted at an early date in the history of the city. Sewers were built in 1676. At that time, however, their use was more for the drainage of low and swampy grounds than the removal of household wastes, but from time to time buildings were connected with them, and they came into use for sewerage purposes as well. There was no system adopted, however, and no attempt at scientific methods of construction, but as the necessity arose one sewer or drain after another was built to suit what appeared to be the present wants. It was not until 1849 that this matter was placed under the control of any city department, and not till 1865 that the Legislature authorized the adoption of a general plan of sewerage for the whole city, and the alteration and improvement of the existing system to conform to such general plans.

In 1849 70 miles of sewer were in existence, and in 1861 there were over 200 miles, all of which had been built with varying ideas of the use and efficiency and capacity required. At first large circular sewers were built; then the form was changed to egg shape, 4 feet by 2 feet 8 inches, and 4 feet by 3 feet were favorite sizes. These were often built of the same size from the mouth to the head of the system, without any regard to the diminishing area to drain.

It will be seen, therefore, that the system is not like one designed at any given time for a given purpose, but a growth from one intended for land drainage only, and showing the theories that prevailed at various times, as to such matters, up to this present time, when it is believed modern ideas in sanitary science are embodied in the works constructed.

Under the Law of 1865 authority was given to alter and improve the sewers which had been previously constructed, and assess the cost upon the property benefited. Under this provision the greater part of the original system has been remodeled and rebuilt, most of the work having been done in the last twenty years. Intercepting sewers have been built along the river front, and the outlets extended to the ends of the piers. Only a few places now remain where this improvement is necessary. It having been found by experience that the long intercepting sewers, covering one-half to three-quarters of a mile of river front, did not clear themselves of deposits on account of long, flat grades, and were often gorged by heavy rainfalls, additional outlets have been put in from time to time, thus shortening long stretches of such sewer and thereby increasing their efficiency.

Large circular sewers, carrying the same diameter for their entire length, have been improved by laying a tile invert of small radius therein, thus doing away with the broad, flat bottom, and in this way increasing the velocity and scouring effect of the current. None of this work, however, has been done for several years past, on account of lack of funds, although there are many sewers which would be much improved thereby. Various other improvements have been accomplished, such as changes of grade, size and shape, which have been of great advantage.

There is much work of this kind that could still be done which would greatly benefit the system, but which is not likely to be done until it becomes imperative, because a great area of street surface has recently been covered with new pavement, and serious objections are raised against tearing this up for any purpose whatever. Except, however, as just stated, and aside from certain minor imperfections which can be remedied, under the head of repairs, the sewer system is in a fairly satisfactory condition and works well.

There are two matters, however, of a general nature, that ought to receive attention. One belongs to maintenance and will be spoken of under that head in another place. The other relates to the proper drainage of the low lands along the river fronts. With a gravity system there can be no drainage below high-water mark. All our outlets are below high-water mark, and most of them discharge at about low-water mark. This is a condition that cannot be avoided, since the grade of the marginal streets are only about five feet above high-water mark, and in most cases streets leading thereto have very little rise for some distance back from the river. This fixes the relative position of sewers as to street surface and tide water, and at the same time limits size and capacity of the same. The result of this state of affairs is that high water reaches a long distance inland and fills the outlet sewers full. The discharge is then by hydrostatic pressure; head enough must be acquired to overcome the friction of the interior roughness. If at time of high water a quick, heavy shower should occur, with a precipitation of one, two or even three inches in the space of an hour, outlets are sure to be gorged and water sent back into adjoining cellars.

This is of such frequent occurrence that persons occupying buildings along West and South streets rather expect to pump out their cellars after every storm.

As to a remedy for this, I would suggest the use in such locations of the small pipe, separate system for the drainage of sewage matter from the buildings only, all storm water to be excluded. Such a system could be laid lower than the present one and sewage conveyed to a convenient point,

and then pumped into the river. Cellars of buildings could be made water-tight, and the use of drains and sanitary appliances would be in no way affected by tides or storms.

This recommendation, of course, is only intended to apply to districts where the street grades are, say, about ten feet above tide water.

Higher locations are not affected as above stated, and have no need for a change. Our outfall sewer would serve as now to discharge all matter from higher levels, and the rainfall from the lower. No estimate of the cost of such improvement has ever been made, but in my opinion it is worthy of careful consideration.

In this place I desire to call your attention to a report upon the sewerage system made by Rudolph Hering in the year 1889. Mr. Hering spent about a year and a half in his investigations, and his report contains valuable data relating to the drainage of the city, and many useful suggestions as to its improvement. It is now in manuscript, as originally presented. We have received many requests from engineers and officers of other cities for copies of it, which we have been unable to comply with, because the report has never been printed.

Considering Mr. Hering's wide reputation as a Sanitary Engineer, the great amount of valuable information and statistics, the useful diagrams and tables of flow and velocity, which had never been put in shape before, and their value to a Department dealing with matters pertaining to the public health in this and other cities, I recommend that this report be printed in book form, together with the tables and diagrams, etc., etc., the cost of which would not exceed \$1,000.

#### MAINTENANCE.

The usual force of laborers and mechanics have been employed during the past year in the work of cleaning and repairs, which have been found necessary to keep the sewer system in working order. They are classified as follows: Foremen, 14; Assistant Foremen, 2; Brick-layers, 6; Timekeeper, 1; Horses and Wagons, 6; Horses and Carts, 23; Laborers, 51—Total 103.

The cleaning of brick sewers was carried on as heretofore by a contract, which has been in operation for several years. Under this contract there were cleaned 63,565 feet at a cost of \$7,513.71-100, averaging 11.82-100 cents per foot.

In 1894 we cleaned 78,685 feet at a cost of \$9,541.79-100, or 12.12-100 cents per foot. The appropriation for such purposes being small, and several extensive repairs having become necessary, a smaller amount was available for cleaning, and less work done, although from complaints and other sources, the necessity for the same is known to be increasing.

One gang of men only were engaged in sewer examinations, so that we might be informed as to its general condition and they went over 277,123 feet and reported on the same.

In this connection it is proper to say that too little attention is given to the matter of cleanliness in sewers. Being removed from public observation, no knowledge of their condition is before the public eye. The filth therein contained is not like the dirt lying upon the public streets, and its damage to public health is not realized. Although concealed, it is none the less liable to breed disease.

To be thoroughly informed as to the condition of our sewers, at least two gangs of men should be engaged in inspection.

Where these inspections show that the free flow of sewage is obstructed by deposits of dirt, prompt steps for removal should be taken. By using the small fund given for this purpose, according, as I believe to the best advantage, by keeping all outlets and intercepting sewers clean, the rest of the system has practically taken care of itself. This was a necessity, for the money allowed was only sufficient after paying the laboring force to attend to complaints, and do the work before mentioned.

Flushing as a means of cleaning sewers has never been practiced in this city, except in cases of pipe sewers, where no other means is possible. One reason for this is that dirt has been allowed to settle for so long a time that it gets hard and compact, and no amount of water has power enough to wash it out. Flushing to be effective must be done frequently. Until a few years ago, the water supply was too scant to use it for that purpose. Under all the circumstances, we have found that, up to this time, our only way of accomplishing the purpose in cleaning brick sewers was by hand.

I have previously recommended the building of a number of flush tanks at the head of certain systems of pipe sewers, as well as on certain lines of properly shaped brick sewers, and I am certain that if adopted the change would be economical and effective and would result in a greater degree of cleanliness.

At present we are far behind other cities in the use of such appliances. The frequent and thorough cleaning of catch-basins is another thing which deserves more attention. These basins catch the street wash and much of the scourings of the Street Cleaning Department. They will hold about 1½ to 2 cubic yards of filth before they cease to operate; consequently, unless frequently examined and cleaned, they are liable to contain, and do contain, varying amounts of filth which are certainly dangerous to the public health. It is not pleasant to contemplate the fact that at every street corner there is a cesspool, but this is the case unless every basin is frequently cleaned and filled with fresh water.

It is not to be understood that the contents of these basins is as foul as sewage itself, but it is somewhat like it in the first instance, and is liable to become so if allowed to remain in that place any length of time.

A system of frequent cleaning should be adopted even if it costs a large sum of money.

Our laboring force cleaned 59,620 feet of pipe sewer at a cost of \$6,798, or 11 40-100 cents per foot. The total of all kinds of sewers cleaned was about 23 miles and cost on an average 11 6-10 cents per foot, or \$14,311.71.

This is only about five per cent. of the whole mileage in the city, and shows how favorable to self-cleaning are the grades of streets, and size, shape, etc., of sewers.

I repeat the table given last year, now covering from 1885 to 1895, inclusive, showing the work of cleaning as carried on in those years.

	MILES.	COST OF CLEANING.	FEET CLEANED.		MILES.	COST OF CLEANING.	FEET CLEANED.
1885.....	410.36	\$11,769 41	No record	1891.....	444.29	\$17,360 88	133,008
1886.....	414.20	21,769 41	55,819	1892.....	449.37	11,186 18	77,764
1887.....	421.51	18,415 87	80,069	1893.....	455.80	13,243 45	92,963
1888.....	429.08	26,414 10	101,785	1894.....	461.52	9,541 79	78,685
1889.....	433.73	30,559 50	161,050	1895.....	468.20	7,513 71	63,565
1890.....	437.89	36,729 62	240,850				

The appropriation for the year was expended as follows:

Appropriation.....	\$100,000 00	Liabilities outstanding.....	\$2,250 00
Pay-roll of Laborers, etc.....	\$81,632 50		\$99,988 47
Materials, etc.....	7,086 27		
Work done under orders.....	9,019 70	Balance.....	\$11 53

You will find in the proper place a detailed statement of work done by the force of laborers and mechanics.

Our complaint book shows that 1,375 complaints were received from citizens against 1,888 last year and 1,211 the year previous, as follows: Sewers stopped, 181; basins stopped, 880; miscellaneous, 314—total, 1,375.

Of these 162 were found to be without foundation, but there was as much time lost in investigating the same as in any other case. The total of cases where difficulties were remedied was 1,213 against 1,751 last year.

This record is an improvement and shows that, with a proper force and due diligence and foresight, guided by previous information from a thorough examination, the complaints from citizens would be very few.

It is gratifying to know that for the coming year an increase of \$25,000 over last year's appropriation has been secured, and it is expected that next year's report will show that it has been judiciously applied.

The following is the report of the Permit Clerk giving a statement of the number of permits issued to connect buildings with the public sewers. For permits to repair and relay sewers and drains. Amount received for restoring and relaying pavements: Permits to connect sewers, 921; permits to repair sewer connections, 1,015; number of buildings in the above, 3,011. Money received for sewer permits, \$24,227.84; money received for restoring and repaving, \$107,118.95—total, \$131,346.79.

The draughtsmen employed in this office have done work as follows: 71 contract plans, of which 41 were plans of new sewers, 4 were plans of repairs to sewers and 27 were plans of receiving-basins. They also made 30 filed plans, 10 filings of 3 plans each, 69 Inspectors' books, 81 assessment lists, containing 324 sheets of maps and covering 12,391 separate pieces of property. They have been engaged in preparing a new set of record maps, containing exact information as to location, depth, etc., of sewers. This work is still in progress and will be continued as fast as proper data can be obtained.

The Inspector of Cement reports as follows: Number of specimens tested for the Water Purveyor, 711; number of Engineers in Charge of Sewers, 494; number of Bureaus of Repairs, 10—total, 1,215. Of this number 82 samples were rejected as being below the standard required.

In conclusion, I wish to thank my Assistant Engineers and the members of their several parties, Draughtsmen, Clerks and other employees, for faithful service during the year.

I regret that a lack of work in prospect for the coming year made it necessary to discharge one corps of Engineers and two Draughtsmen.

Respectfully submitted, HORACE LOOMIS, Engineer in Charge of Sewers.

#### WORK DONE BY MECHANICS, LABORERS, ETC., FOR YEAR ENDING DECEMBER 31, 1895.

2,119 receiving-basins relieved, 5,851 receiving-basins and culverts cleaned, 59,620 lineal feet of sewer cleaned, 79,955 lineal feet of sewer relieved, 578,543 lineal feet of sewer examined, 573 lineal feet of brick sewer rebuilt, 141 lineal feet of box sewer rebuilt, 66 lineal feet of brick culverts rebuilt, 215 lineal feet of new pipe culvert laid, 115 lineal feet of new pipe sewer laid, 72 lineal feet of spur pipe laid, 52 lineal feet of new curb set, 201 lineal feet of curb reset, 16 new manholes built, 22 manholes repaired, 118 basins repaired, 44 basin-heads reset, 267 manhole heads reset, 144 new manhole heads and covers put on, 19 new basin-heads and covers put on, 97 new basin covers put on, 302 new manhole covers put on, 61 basin bends put in, 91 basin grates put in, 5,111 cubic feet of brick work built, 1,045 square feet of flagging relaid, 1,283 square yards of pavements relaid, 65,212 cubic feet of earth excavated and refilled, 122 cart loads of earth filling, 14,333 cart loads of dirt removed.

#### Contracts Completed during the Year 1895.

LOCATION OF WORK.	5' x 7'	6' CIRCLE.	BOX 6' x 5' 4"	6' 3" x 5' 6"	4' CIRCLE.	4' x 2' 8"	3' 6" x 2' 4"	3' 6" x 2' 2"	BARREL 4' CIR.	15" PIPE.	12" PIPE.	6" HOUSE DRAINS.	RUBBLE MASONRY.	CUL-VERT.	BASINS.	ROCK.	TOTAL COST.	
Amsterdam ave., west side, bet. 173d st. and a point 36.5 feet north of 188th st., and sewers on north and south sides of 175th st., bet. Amsterdam and Wadsworth ave., with curves in 11th ave.	....	....	....	....	1,202	1,976	....	....	888	....	....	....	....	88	7	6,807	\$42,423 58	
Avenue D, bet. 10th and 13th sts., and in 12th st., bet. Avenue D and Dry Dock st.	....	....	....	....	....	....	938 1/4	....	....	....	....	....	....	17	1	....	4,819 88	
96th st., bet. 1st ave. and Harlem river.	....	....	....	....	....	....	40	....	220	....	761	....	....	....	24 1/2	1	7,756	727 26
Lexington ave., bet. 96th and 103d sts., and in 12d st., bet. Lexington and 3d ave.	....	....	....	....	....	....	....	529 1/2	....	441	....	....	....	17	2	824 1/2	7,040 29	
St. Nicholas ave., east side, bet. 137th st. and St. Nicholas ave.	....	....	....	....	....	....	....	....	949 1/2	....	....	....	....	23	2	2,142 1/2	10,311 27	
St. Nicholas ave., west side, bet. 141st and 145th sts., with alteration and improvement to curve at 137th st. and St. Nicholas ave.	....	....	....	....	....	....	....	41 1/2	....	....	....	....	....	....	....	....	....	
Amsterdam ave., west side, bet. 83d and 55th sts.	....	....	....	....	....	....	....	....	472	....	....	....	....	....	....	1,261	8,418 50	
92d st., bet. West End and Riverside aves.	....	....	....	....	....	....	....	36	....	301	....	....	....	....	....	907	4,105 00	
95th st., bet. West End and Riverside aves.	....	....	....	....	....	....	18	....	529	....	....	....	....	....	....	1,572	6,480 78	
95th st., bet. West End ave. and Boulevard.	....	....	....	....	....	....	55	....	205	....	....	....	....	....	21	1	332	2,257 10
117th st., bet. Amsterdam ave. and Morningside ave., West.	....	....	....	....	....	....	72	....	381	....	....	....	....	....	....	1,286	5,299 22	
Alteration and improvement to sewer in 23d st., bet. North river and 10th ave., to sewer and connections in 11th ave., bet. 23d and 27th sts., and to sewer in 13th ave., east side, bet. 23d and 24th aves.	....	140	1,129	1,088 1/4	535 1/2	306 1/2	....	....	....	....	....	184	....	281	13	....	48,312 50	
Alteration and improvement to sewer in 5th ave., bet. 9th and 98th sts., and to curves in 91st, 92d, 93d, 94th 95th and 96th sts.	....	....	....	....	....	....	2,248	....	....	....	....	....	....	85	....	1,739 1/2	20,735 07	

LOCATION OF WORK.	5' x 7'	6' CIRCLE.	BOX 6' x 5' 4"	6' 3" x 5' 6"	4' CIRCLE.	4' x 2' 8"	3' 6" x 2' 4"	3' 6" x 2' 2"	BARREL 4' CIR.	15' PIPE.	12" PIPE.	6" HOUSE DRAINS.	RUBBLE MASONRY.	CUL-VERT.	BASINS.	ROCK.	TOTAL COST.
123d st., bet. Boulevard and Amsterdam ave.	...	...	...	...	...	...	...	72	...	705	...	...	...	...	...	1,367	\$6,730 55
5th ave., bet. 9th and 10th sts.	...	...	...	...	...	...	181	...	...	...	...	...	...	...	...	...	1,080 50
11th ave., east side, between 183d and 185th sts.	...	...	...	...	...	...	...	...	...	367	...	...	...	...	...	...	1,706 50
Pleasant ave., bet. 114th and 115th sts., connecting with sewer in 115th st., east of Pleasant ave.	...	...	...	...	...	...	...	...	170 1/2	175 1/2	...	...	...	...	...	...	1,058 77
Alteration and improvement to sewer in 76th st., bet. Park and Madison avenues.	...	...	...	...	...	...	466	...	...	...	...	...	...	...	6	...	48 1/2
Alteration and improvement to sewer in 86th st., bet. East river and East End ave.	...	...	...	...	453	...	...	...	...	24	...	...	...	...	14	...	5,766 00
79th st., both sides, bet. Riverside and West End aves.	...	...	...	...	...	...	...	42	...	512	...	...	...	...	...	387	3,536 70
79th st., both sides, bet. West End ave. and Boulevard.	...	...	...	...	...	...	72	...	274	...	...	...	...	...	...	1,222	5,631 46
Totals.	1,789	2,513	140	1,129	1,658	2,653 1/2	9,882 1/4	2,966 1/2	34	15,434 1/2	1,242 1/2	1,500	772	1,303	54	39,753	\$39,261 34

## Basins.

LOCATION.	BASINS.	CUL- VERT.	ROCK.	TOTAL COST.
Receiving-basin, northeast cor. of 32d st. and 3d ave.	1	14	...	\$158 00
Receiving-basins, northwest cor. of 150th st. and southwest cor. of 151st st. and Convent ave.	2	42 1/2	...	342 50
Receiving-basin, northwest cor. of 151st st. and 12th ave.	1	42	...	182 80
Receiving-basins, northwest cor. of 151st st. and southwest cor. of 152d st. and Convent ave.	2	36	16	368 00
Receiving-basin, west side of 8th ave., about 73 1/2 feet north of 155th st.	1	69	...	207 10
Receiving-basin, south side of 121st st., at junction of 8th ave. and St. Nicholas ave.	1	32	...	235 00
Receiving-basins, northeast cor. of Vesey st. and West Broadway and Vesey and Greenwich sts.	2	51	...	298 25
Receiving-basins, southeast cor. of Vesey and Greenwich, and northeast cor. of Fulton and Greenwich sts.	2	39	...	315 00
Receiving-basin, northeast cor. of 75th st. and Columbus ave.	1	18	...	192 00
Receiving-basins, north and south sides of 145th st. and New York Central and Hudson River Railroad Company's wall.	2	63	...	365 00
Receiving-basin, northwest cor. of Beach st. and St. John's lane.	1	22	...	139 40
Receiving-basins, southeast cor. of 73d, 74th and 75th sts. and Riverside ave.	3	9	15	600 00
Receiving-basins, northeast cor. of 77th st. and southeast cor. of 82d and 83d sts. and Riverside ave.	3	40 1/2	11	557 50
Receiving-basin, southeast cor. of Bethune and Greenwich sts.	1	15	...	158 00
Receiving-basin, south side of 158th st., 477 feet west of Boulevard Lafayette, and Hudson River Railroad Company's wall.	1	20	5	201 00
Receiving-basins, north and south sides of 145th st. and New York Central and Hudson River Railroad Company's wall.	2	48	...	350 00
Receiving-basin, southeast cor. of 126th st. and Lenox ave.	1	9 1/2	...	186 00
Alteration and improvement to basins, southeast cor. of 120th st. and Boulevard, and southwest cor. of 120th st. and Amsterdam ave.	2	27	17	252 25
Receiving-basin, northeast cor. of Elm and White sts. (alteration and improvement.)	1	12	...	213 00
	30	609 1/2	64	\$5,386 80

## Recapitulation.

NATURE OF WORK.	NEW.	ALTERATION AND IMPROVEMENT.	NATURE OF WORK.	NEW.	ALTERATION AND IMPROVEMENT.
5' x 7' brick sewer.	1,780	...	3' 6" x 2' 4" brick sewer.	6,047 3/4	3,835
6' circle brick sewer.	2,513	...	3' 6" x 2' brick sewer.	2,673 1/2	293
6' x 5' 4" wooden box.	140	...	15-inch pipe sewer.	15,427 1/2	7
6' 3" x 5' 6" brick sewer.	...	1,120	12-inch pipe sewer.	1,242 1/2	...
4' circle brick sewer.	172 1/4	1,485 1/4	12-inch pipe culvert.	1,448 1/2	554
4' circle wooden barrel.	34	...			
4' x 2' 8" brick sewer.	1,202	1,451 1/4	Total.	32,660 1/2	8,754 3/4

## Contracts Now in Progress.

LOCATION OF WORK.	SEWER.				
	Size.	Lineal Feet.	Culvert Lin- eal Feet.	Receiving- basins.	Rock, Cubic Yards.
1st ave., bet. 47th and 48th sts.	3' 6" x 2' 2"	105	...	...	625
Alteration and improvement to sewer in Central Park, West, west side, bet. 62d and 70th sts., and to curves in 63d, 64th, 65th and 66th sts.	4' x 2' 8"	702	...	...	15,543 60
Water st., bet. Market Slip and Jefferson st.	3' 6" x 2' 4"	950	...	...	
Alteration and improvement to sewer in 15th st., bet. 1st and 2d aves.	6' iron pipe	447	300	...	1,200
Alteration and improvement to sewer in 2d st., bet. Ave. A and East river, with new outlet under pier.	3' 6" x 2' 4"	1,303	...	...	8,818 75
7th ave., east side, bet. 138th and 141st st.	3' 6" x 2' 4"	682	45	2	3,851 75
114th st., bet. Amsterdam ave. and Morningside ave., West.	15" pipe	510	...	...	
Wooden bar- rel	100	...	...	...	8,266 00
4' cir. brick	100	...	...	...	
flow brick	12	...	...	...	
7th ave., east side, bet. 138th and 141st st.	15" pipe	525	...	...	5,343 76
114th st., bet. Amsterdam ave. and Morningside ave., West.	6' 6" x 2' 4"	71	...	...	4,224 00
30th st., bet. Convent ave. and St. Nicholas terrace.	15" pipe	465	...	...	960
Macomb's Dam rd., bet. 152d and 154th sts., with sewer in 153d st., west of Macomb's Dam rd.	3' 6" x 2' 2"	603	...	...	1,500
Marginal st., between 107th and 110th sts., with branches in 107th, 108th and 109th sts., bet. Marginal st. and 1st ave.	15" pipe	400	...	...	6,163 00
187th st., bet. Kingsbridge rd. and Amsterdam ave., with branches in 11th ave., both sides, bet. 187th and 190th sts., and curves at Wadsworth, Audubon and 11th aves.	4' x 2' 8"	800	...	...	4,755 00
Convent ave., bet. 135th and 141st sts., with curves in 135th, 136th, 137th, 138th and 139th sts., with branches in 140th st., bet. Convent and Amsterdam aves.	15" pipe	1,515	80	6	20,082 65
Cathedral Parkway, bet. Columbus and Amsterdam aves.	15" pipe	2,145	...	...	27,455 00
5th ave., bet. 12th and 13th sts.	15" pipe	1,205	360	14	4,500
Alteration and improvement to sewer in Central Park, West, bet. 62d and 70th sts., with connections to present sewers in 9th and 91st sts.	3' 6" x 2' 4"	415	240	8	18,093 00
Boulevard, east side, bet. 114th and 116th sts.	3' 6" x 2' 4"	497	...	...	4,856 00
Boulevard, Lafayette, bet. 158th st. and summit, north.	15" pipe	157	50	3	560
Naegle and 11th aves., bet. Academy and 190th sts., with curves to connecting sewers.	3' 6" x 2' 4"	366	...	...	18,735 00
Receiving-basin on the northeast cor. of Madison ave. and 8th st.	15" pipe	1,243	150	4	4,800
Receiving-basins on the northeast, southeast and southwest cor. of 135th st. and 7th ave.	5' 6" x 4'	181	...	...	36,565 00
Receiving-basins on the southwest cor. of 99th st. and northwest cor. of 98th st. and Lexington ave.	15" pipe	2,660	...	...	
Storm overflow to receiving-basin on the northwest cor. of Rutgers Slip and South st.	1,200	500	16	5,750	
	1,044	...	...	10	10,323 00
	15" pipe	348	50	3	1,700
	197	...	...	106	1,698 50
Total.	24,203	2,057	68	29,746	\$211,002 51

The Following Surveys have been Made and Plans and Specifications are now in Course of Preparation.

LOCATION.	SEWER, LINEAR FEET.	CULVERT, LINEAR FEET.	RECEIVING BASINS.
Columbus ave., east side, bet. 107th st. and Cathedral Parkway.	710	...	4
185th st., bet. Kingsbridge rd. and Audubon ave., and in 11th ave., both sides, bet. 185th and 186th sts.	1,510	85	
Lexington ave., both sides, bet. 97th and 98th sts.	396	10	1
Fort Washington ave., extending about 1,240 feet from Kingsbridge rd.	1,371	203	11
183d st., bet. Kingsbridge rd. and 11th ave., with curve in Wadsworth ave.	480	35	

Wire fence.....	\$292 50	Paints.....	\$3 93
Rubber Hose.....	97 62		
Gravel and screenings.....	2,748 50		
Outlet pipes.....	32 00		
Coal and wood.....	81 00		
Telephone service.....	54 00	Balance Dec. 31, 1895.....	\$2,000 29

The following is a Statement of the Various Appropriations Under Charge of the Bureau of Streets and Roads.

Roads, Streets and Avenues Unpaved—	
Maintenance of and Sprinkling.....	\$30,000 00
Amount transmitted during the first quarter ending March 31, 1895.....	1,966 75
Balance April 1, 1895.....	\$28,033 25
Amount transmitted during the second quarter ending June 30, 1895.....	9,788 25
Balance July 1, 1895.....	\$18,245 00
Amount transmitted during the third quarter ending Sept. 30, 1895.....	12,007 37
Balance Oct. 1, 1895.....	\$6,237 63
Amount transmitted during the fourth quarter ending Dec. 31, 1895, is as follows:	
Pay-roll, Laborers, etc., week ending Oct. 5, 1895.....	804 75
Pay-roll, Laborers, etc., week ending Oct. 12, 1895.....	304 75
Pay-roll, Laborers, etc., week ending Oct. 19, 1895.....	274 25
Pay-roll, Laborers, etc., week ending Oct. 26, 1895.....	502 25
Balance Dec. 31, 1895.....	\$279 67

The following is a Statement of the Various Appropriations Under Charge of the Bureau of Streets and Roads.

Bridge over Harlem Ship Canal—Maintenance of, 1895.....	\$7,500 00	Pay-roll, Laborers, etc., week ending Nov. 23, 1895.....	\$80 50
Amount transmitted during the first quarter, ending Mar. 31, 1895.....	1,132 10	Pay-roll, Laborers, etc., week ending Nov. 30, 1895.....	80 50
Balance April 1, 1895.....	\$6,367 90	Pay-roll, Laborers, etc., week ending Dec. 7, 1895.....	80 50
Amount transmitted during the second quarter, ending June 30, 1895.....	1,315 98	Pay-roll, Laborers, etc., week ending Dec. 14, 1895.....	80 50
Balance July 1, 1895.....	\$5,051 92	Pay-roll, Laborers, etc., week ending Dec. 21, 1895.....	80 50
Amount transmitted during the third quarter, ending Sept. 30, 1895.....	1,982 32	Pay-roll, Laborers, etc., week ending Dec. 28, 1895.....	80 50
Balance Oct. 1, 1895.....	\$3,059 60	Pay-roll, Engineman, month ending Oct. 31, 1895.....	166 66
Amount transmitted during the fourth quarter ending Dec. 31, 1895, is as follows:		Pay-roll, Engineman, month ending Dec. 31, 1895.....	166 66
Pay-roll, Laborers, etc., week ending Oct. 5, 1895.....	80 50	Repairs to bridge.....	166 66
Pay-roll, Laborers, etc., week ending Oct. 12, 1895.....	80 50	Egg coal.....	800 00
Pay-roll, Laborers, etc., week ending Oct. 19, 1895.....	80 50	Axle grease.....	30 57
Pay-roll, Laborers, etc., week ending Oct. 26, 1895.....	80 50	Draining hydraulic pipes.....	85 41
Pay-roll, Laborers, etc., week ending Nov. 2, 1895.....	80 50		
Pay-roll, Laborers, etc., week ending Nov. 9, 1895.....	80 50		
Pay-roll, Laborers, etc., week ending Nov. 16, 1895.....	80 50		
Balance Dec. 31, 1895.....	\$907 14	Additional appropriation.....	\$407 14
		Balance Dec. 31, 1895.....	\$907 14

The following is a Statement of the Various Appropriations Under Charge of the Bureau of Streets and Roads.

Boulevards, Roads and Avenues—Maintenance of—Salaries, 1895.....	\$2,500 00	The following amount has been transmitted during the quarter ending Dec. 31, 1895, and charged to Street Improvement Fund:	
Amount transmitted during the first quarter, ending Mar. 31, 1895.....	624 99	Pay-roll, Inspector of Crosswalks.....	\$91 00
Balance April 1, 1895.....	\$1,875 01	Surveyor's fees.....	24 16
Amount transmitted during the second quarter, ending June 30, 1895.....	624 99	Final payment.....	136 10
Balance July 1, 1895.....	\$1,250 02		
Amount transmitted during the third quarter, ending Sept. 30, 1895.....	624 99	The following amount has been drawn against Restoring and Repaving—Special Fund.....	\$251 26
Balance Oct. 1, 1895.....	\$625 03	The following amount has been received during the quarter ending Dec. 31, 1895, for use of road rollers and sprinkling wagon, and deposited to the credit of the General Fund.....	1,717 00
Amount transmitted during the fourth quarter ending Dec. 31, 1895.....	624 99		
Balance Dec. 31, 1895.....	\$0 04		

#### DOCUMENT "G."—REPORT OF SUPERINTENDENT OF LAMPS AND GAS.

BUREAU OF LAMPS AND GAS, NEW YORK, January 10, 1896. Gen. C. H. T. COLLIS, Commissioner of Public Works:

DEAR SIR—In compliance with the directions contained in your circular letter of December 30 last, I herein submit a report of the business of the Bureau of Lamps and Gas for the quarter ending December 31, 1895, with a summary of the same for the entire year.

In Exhibit "A" will be found a statement showing the amounts expended for a supply of illuminating gas to the various public markets, court-rooms, offices, armories, etc., and for the fitting-up, lighting and maintenance of the public lamps for each of the four quarters of the year and the sums total for the whole year.

Exhibit "B" is a summary of the appropriation for "Lamps and Gas and Electric Lighting," and this shows an expenditure during the quarter of three hundred and twenty-eight thousand three hundred and forty-four dollars and fifty-nine cents (\$328,344.59), and for the year of nine hundred and seventy-six thousand eight hundred and ninety-one dollars and thirty-five cents (\$976,891.35), leaving a surplus balance of three thousand one hundred and eight dollars and sixty-five cents (\$3,108.65) as there are no liabilities outstanding against the appropriation.

Exhibit "C" is a summary of the appropriation for "Lamps and Gas and Electric Lighting—Salaries," and this shows an expenditure during the quarter of sixteen hundred and twenty-four dollars and ninety-five cents (\$1,624.95), and for the year of sixty-four hundred and twenty-four dollars and thirty-nine cents (\$6,428.39), leaving a surplus balance of seventy-one dollars and sixty-one cents (\$71.61).

Exhibit "D" is a summary of the "Lamp Account," showing the number of new lamps lighted, old lamps relighted and lamps discontinued by each gas and electric light company during the quarter and the year; 379 new gas-lamps and 2 new electric-lamps have been lighted, 67 gas-lamps relighted, 57 gas-lamps, 125 naphtha-lamps and 1 electric-lamp discontinued during the quarter; and 1,262 new gas-lamps, 200 new naphtha-lamps and 129 new electric-lamps have been lighted; 242 gas-lamps relighted, 696 gas-lamps, 125 naphtha-lamps and 3 electric-lamps have been discontinued during the year; of the gas-lamps discontinued 373 were displaced by electric-lamps. The total number of public lamps on December 31, 1895, was 25,492 gas, 233 naphtha, and 2,752 electric, making a total of 28,477 lamps.

Exhibit "E" is a statement showing the lowest, highest and average illuminating power of the gases supplied to the city during the quarter and the year, by each of the gas companies as connect with our photometric stations.

Exhibit "F" is a time table for lighting and extinguishing the public gas-lamps during the year 1896.

Exhibit "G" is a copy of the contract between the Village of Wakefield and the New York and New Jersey Globe Gas-light Company.

Exhibit "H" is a copy of the contract between the Village of Williamsbridge and the New York and New Jersey Globe Gas-light Company.

Exhibit "I" is a copy of the contract or agreement between the Village of Wakefield and the Eastchester Electric Company.

Exhibit "J" is a copy of the contract between the village of Williamsbridge and the Eastchester Electric Company.

Exhibit "K" is a copy of the contract between the Town of Westchester and the Bronx Gas and Electric Company.

Exhibit "L" is a copy of the contract or franchise given by the Village of Wakefield to the Wakefield Gas-light Company.

Exhibit "M" is a copy of the contract or franchise given by the Village of Williamsbridge to the Williamsbridge Gas and Electric-light Company.

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

#### By What Company.

	New Lamps Fitted Up.	Lamp-posts Removed.	Lamp-posts Reset.	Lamp-posts Straightened.	Columns Relighted.	Columns Reloaded.	Service-pipes Relighted.	Stand-pipes Relighted.
Consolidated Gas Co., Branch 1.....	42	176	83	226	30	317	170	118
" " 2.....	7	99	19	31	5	80	84	75
" " 3.....	9	24	13	9	2	5	30	30
" " 4.....	97	69	53	74	15	26	52	50
" " 6.....	149	97	98	293	4	34	123	75
Equitable Gas-light Co.....	16	41	37	53	20	103	103	102
Standard Gas-light Co., Forty-second Street Branch.....	5	4	6	25	4	41	18	12
Central Gas-light Co., Harlem Branch.....	159	121	73	69	8	9	27	3
Northern Gas-light Co.....	472	205	184	122	..	19	6	..
Yonkers Gas-light Co.....	130	10	22	33	..	..	..	..
New York and New Jersey Globe Gas-light Co.....	200	..	..	..	..	..	..	..
Total.....	1,286	851	591	950	102	652	615	469

The following table will show the number of new lamps lighted by the several Gas and Electric-light Companies in each of the years from 1886 to 1895, inclusive:

BY WHAT COMPANY.	NEW LAMPS LIGHTED IN									
	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895
Consolidated Gas Co., Branch 1.....	19	26	12	6	28	19	21	12	20	44
" " 2.....	27	20	17	8	18	19	10	9	13	8
" " 3.....	11	44	26	20	21	16	31	10	11	9
" " 4.....	62	204	181	251	197	150	85	141	51	113
" " 6.....	342	352	230	243	412	405	337	478	254	278
Equitable Gas-light Co.....	14	5	9	23	14	22	27	29	16	16
New York Mutual Gas-light Co.....	1	..	..	1	4	1	..	..	..	..
Standard Gas-light Co., 42d st. Branch.....	..	..	..</td							

Ninety-ninth Street, Station (formerly Knickerbocker Gas-light Company), located at Ninety-ninth street, East river; manufactures water-gas.

The general offices of the Company is at No. 4 Irving place; its capital is \$35,430,000, and the capacity of the several works is 30,000,000 cubic feet per day.

Branch office No. 1, at corner of Hester and Elizabeth streets, attends the gas supply, including the lighting of the public lamps, in that part of the city lying south of the centre line of Houston street.

Branch office No. 2, at No. 4 Irving place, attends to the gas supply, including the lighting of the public lamps, in that part of the city lying north of the centre line of Houston street and south of the centre line of Twenty-third street.

Branch office No. 3, at the corner of Fourth avenue and Twenty-sixth street, attends to the gas supply, including the lighting of the public lamps, in that part of the city lying north of the centre line of Twenty-third street and east of the centre line of Fifth avenue to Fifty-ninth street, and all east of Central Park, from Fifty-ninth street to the centre line of Seventy-ninth street.

Branch office No. 4, at Broadway and Forty-sixth street, attends to the gas supply, including the lighting of the public lamps, in that part of the city lying north of the centre line of Twenty-third street and west of the centre line of Fifth avenue to Fifty-ninth street, and on the west side of Central Park, between Fifty-ninth and One Hundred and Tenth streets, and south of the centre line of One Hundred and Tenth street, from Eighth avenue to the North river, including Transverse Roads Nos. 1 and 2.

Branch office No. 6, at No. 2084 Third avenue, attends to the gas supply, including the lighting of the public lamps, in that part of the city lying north of the centre line of Seventy-ninth street to One Hundred and Tenth street, east of the Central Park, and all the city north of One Hundred and Tenth street to Harlem river, including Transverse Road No. 3 and the bridges over the Harlem river.

The New York Mutual Gas-light Company has mains in various streets or parts of streets between Battery place and Sixty-fifth street, but it does not light any public lamps. It manufactures water gas at its works at Eleventh street, East river, and its office is at Fourth avenue and Sixteenth street. The capital is \$3,500,000, and the capacity of the works is 4,000,000 cubic feet per day.

The Equitable Gas-light Company has mains in various streets between Division and Eighty-sixth streets, and it lights the public lamps on the line of its mains. Its works are at Forty-first street, East river. It manufactures water gas, and its office is at Third avenue and Twenty-fifth street. The capital is \$4,000,000, and the capacity of its works is 6,000,000 cubic feet per day.

The Standard Gas-light Company has mains in various streets between Thirteenth and One Hundred and Thirty-eighth streets, and between Avenue C and St. Nicholas avenue. It has also a main under the Harlem river, from Second to Lincoln avenue, and in a few streets in the Twenty-third Ward. The works of this company are at One Hundred and Fifteenth street, East river, and its main office is at No. 71 Broadway, with branch offices at the corner of Forty-second street and Lexington avenue, and at No. 19 West One Hundred and Twenty-fifth street and No. 259 Third avenue. The manufacture is water-gas. Its capital is \$10,000,000, and the capacity of its present works is 4,000,000 cubic feet per day.

The East River Gas Company of Long Island City commenced the laying of gas-mains late in 1893, and it has lately begun the distribution of gas in this city. The gas works are located in Long Island City, and it supplies gas to this city through mains laid in a tunnel under the East river.

The Central Gas-light Company supplies gas to the Twenty-third Ward (formerly the Town of Morrisania), and lights all the public gas-lamps therein. It manufactures coal gas and water gas at its works at One Hundred and Thirty-eighth street, East river, and its office is at No. 350 Alexander avenue. The capital is \$500,000, and the capacity of the work is 2,000,000 cubic feet per day.

The Northern Gas-light Company supplies gas to that part of the Twenty-fourth Ward (formerly Town of West Farms), and lights all the public gas-lamps therein. It manufactures coal gas and water gas at its works on the Bronx river, and its office is at No. 1845 Vanderbilt avenue. The capital is \$500,000, and the capacity of its works is 1,000,000 cubic feet per day.

The Yonkers Gas-light Company has mains in and lights the public lamps and supplies gas to that part of the Twenty-fourth Ward (formerly Town of Kingsbridge). Its gas works and office are in the City of Yonkers, Westchester county, and its manufacture is water gas. This company has been leased to the United Gas Improvement Company, and its business is principally confined to the City of Yonkers.

The New York and New Jersey Globe Gas-light Company lights 33 lamps at Woodlawn Heights, in the Twenty-fourth Ward, on Grand avenue, where there are no gas-mains, also 200 lamps in Central Park. The lamps are lighted by means of naphtha contained in a reservoir on each lamp.

#### The Following Additional Streets have been Lighted during the Year.

Convent avenue, from One Hundred and Forty-ninth to One Hundred and Fifty-second street; Jumel place, from One Hundred and Sixtieth to One Hundred and Sixty-second street; Jansen avenue, from Wicker place to Terraceview avenue; Manhattan avenue, from One Hundred and Seventeenth to One Hundred and Eighteenth street; Macomb's Dam Bridge; Harlem Ship Canal Bridge; Park avenue, west side, from Ninety-sixth to Ninety-seventh street; Park avenue, east side, from Ninety-seventh to Ninety-eighth street; Fifth avenue, from One Hundred and Thirty-sixth to One Hundred and Fifty-seventh street; Thirteenth avenue, east side, from Twenty-sixth to Thirtieth street; Ninetieth street, from Avenue A east 300 feet; Ninety-third street, from West End avenue to Riverside Drive; Ninety-fourth street, from West End avenue to Riverside Drive; Ninety-seventh street, from Park to Fifth avenue; One Hundred and Second street, from Manhattan avenue to Central Park, West; One Hundred and Fifth street, from Boulevard to West End avenue; One Hundred and Seventh street, from Manhattan avenue to Central Park, West; One Hundred and Eleventh street, from Seventh to Eighth avenue; One Hundred and Fourteenth street, from Boulevard to Riverside Drive; One Hundred and Fifteenth street, from Manhattan to Morningside avenue; One Hundred and Seventeenth street, from Amsterdam to Morningside avenue; One Hundred and Twenty-seventh street, from Ninth avenue to Lawrence street; One Hundred and Thirtieth street, from Amsterdam to Convent avenue; One Hundred and Thirty-first street, from Park to Lexington avenue; One Hundred and Thirty-sixth street, from Madison to Park avenue; One Hundred and Forty-eighth street, from Seventh to Eighth avenue; One Hundred and Sixty-eighth street, from Audubon avenue to Kingsbridge road; One Hundred and Eighty-seventh street, from Eleventh avenue to Kingsbridge road.

#### The Following Additional Streets in the Twenty-third Ward.

Bergen avenue, from One Hundred and Forty-seventh street to Westchester avenue; Forest avenue, from One Hundred and Forty-fourth to One Hundred and Forty-fifth street; Freeman street, from Southern Boulevard to Bryant avenue; Hoy avenue, from West Farms road to Charlotte place; Ogden avenue approach to Central Bridge; Prospect avenue, from Dawson street to Southern Boulevard; Prospect avenue, from One Hundred and Fifty-sixth street to St. John's avenue; Tinton avenue, from One Hundred and Sixty-sixth to One Hundred and Sixty-ninth street; Union avenue, from Southern Boulevard to One Hundred and Fifty-second street; Vyse avenue, from Home to Jennings street; One Hundred and Fifty-first street, from Wales to Beach avenue; One Hundred and Fifty-second street, from Prospect to Forest avenue; One Hundred and Sixty-second street, from Morris to Fleetwood avenue; One Hundred and Sixty-fourth street, from Morris to Clay avenue.

#### The Following Streets in Twenty-fourth Ward.

Anthony avenue, from Burnside avenue to 300 feet north; Boston road, from Kingsbridge road to Bronx river; Burnside avenue, from Sedgwick to Webster avenue; Cambrelling avenue, from Pelham to Crescent avenue; Ernecleff place, from St. George Crescent to Moshulu Parkway; Jefferson avenue, from Columbine to Crescent avenue; Fairmont place, from Marmion to Prospect avenue; Grenada place, from St. George Crescent to Moshulu Parkway; Kappock street, from Riverdale avenue to Troy street; Monroe avenue, from Columbine avenue to One Hundred and Eighty-seventh street; Oakland place, from Franklin to Prospect avenue; Prospect avenue, from Samuel to Arthur street; Samuel street, from Prospect avenue to 200 feet west; Sedgwick avenue, east side, from Washington Bridge to Fordham road; Sedgwick avenue, west side, from Fordham road to Yonkers line; St. George Crescent, from Cordova place to Van Cortlandt avenue; Taylor avenue, from One Hundred and Eighty-sixth to One Hundred and Eighty-seventh street; Tower place, from Webster avenue to Harlem Railroad; Undercliff avenue, from Washington Bridge to Sedgwick avenue; Van Cortlandt avenue, from Jerome avenue to Gunhill road; Villa place, from Potter place to Van Cortlandt avenue; Webster avenue, from One Hundred and Seventy-ninth to One Hundred and Eighty-ninth street; One Hundred and Eighty-seventh street, from Arthur avenue to Southern Boulevard.

The total aggregate length of the additional streets lighted during the year was 111 miles.

The total aggregate length of streets lighted on December 31, 1895, exclusive of the lately annexed territory, was 570 miles.

In addition to the above I find that there are 53 miles of streets lighted in the lately annexed territory, making a total of 623 miles.

The total length of bridges lighted was 2,900 miles.

The total length of piers lighted was 8,800 miles.

The total area of parks was 73 miles.

The total area of Gansevoort Market Square, 34 acres.

On December 13 last awards of contracts were made by the Gas Commission for the lighting and maintenance of the public lamps for the year 1896, as follows:

#### CONTRACTORS.

	For gas to and lighting each lamp per year.	For each lamp-post straightened.	For each column re-leaded.	For each column refitted.	For each service pipe refitted.	For each stand-pipe refitted.	For each lamp-post removed.	For each lamp-post reset.	For each new lamp fitted up.
Equitable Gas-light Co.	\$12 00	\$1 50	\$1 50	\$3 50	\$4 00	\$4 00	\$3 50	\$10 00	\$10 00
Standard Gas-light Co.	13 04 <sub>1</sub>	1 50	1 50	3 50	5 50	2 50	3 50	10 00	8 00
Consolidated Gas Co.	17 50	1 50	1 50	3 50	5 50	2 50	3 50	10 00	8 00
Central Gas-light Co.	24 03	1 50	1 50	3 50	5 50	2 50	3 50	8 00	8 00
Northern Gas-light Co.	28 00	1 50	1 50	3 00	3 50	2 00	3 50	8 00	8 00
Yonkers Gas-light Co.	28 00	1 00	1 00	1 00	3 50	2 00	1 50	8 00	8 00
*New York and New Jersey Globe Gas-light Co.	22 00	....	....	....	....	....	....	....	....

\* Naphtha lamps.

	FOR ELECTRIC LIGHTING.								
Brush Electric Illuminating Company	720 lamps, at 40 cents each per night, and 92 lamps, at 45 cents, total								
Madison Square Lighting Company	312 lamps, at 40 cents each per night, and 10 lamps, at 50 cents, total								
Mount Morris Electric-light Company	361 lamps, at 40 cents each per night, total								
Harlem Lighting Company	212 lamps, at 40 cents each per night, and 19 lamps, at 50 cents, total								
Manhattan Electric-light Company	241 lamps, at 40 cents each per night, total								
*Edison Electric Illuminating Company	165 lamps, at 50 cents each per night, total								
North River Electric-light and Power Company	840 lamps, at 45 cents each per night, total								

Total number of electric-lamps.....

\* This company has 2 lamps on each of the 165 lamp-posts and the 50 cents is for the 2 lamps.

In addition to the foregoing, an award of contract has been made by yourself to the Equitable Gas-light Company for furnishing illuminating gas of not less than 30 candle power, for the year 1896, to such of the public buildings under your charge as are situated on the lines of the gas-mains of said company at the rate of \$1.25 per 1,000 cubic feet; also one to the Consolidated Gas Company for furnishing gas of from 22 to 29 candle power, at the rate of \$1.25 per 1,000 cubic feet, and one to the East River Gas Company for gas of not less than 30 candle power, for four of the public buildings at the rate of \$1.25 per 1,000 cubic feet.

The following statement will show the average amount of impurities found in the gases of such of the companies as have gas-mains on the lines of our photometric stations, as determined by the analyses of Dr. E. G. Love, our Gas Examiner, in the laboratories of this Bureau:

OF WHAT COMPANY.	SULPHUR. (Grains in 100 Cubic Feet.)				AMMONIA. (Grains in 100 Cubic Feet.)			
	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.
*Consolidated Gas Co., Twenty-first Street Station	5.86	5.68	11.73	9.70	0.40	0.66	0.96	0.82
Consolidated Gas Co., Fourteenth and Eighteenth Streets Stations	10.71	9.06	13.76	12.18	0.98	1.04	1.04	1.00
Consolidated Gas Co., Forty-fourth Street Station	7.17	6.18	7.72	7.06	0.16	0.20	0.18	0.16
Consolidated Gas Co., Forty-second Street Station	8.98	8.70	16.42	14.16	2.16	2.64	4.83	3.94
*Consolidated Gas Co., Ninety-ninth Street Station	3.70	4.04	5.89	5.60	0.43	0.34	0.36	0.32
New York Mutual Gas-light Co.	4.09	5.20	4.58	5.04	0.24	0.28	Trace.	0.12
Equitable Gas-light Co.	6.59	6.06	6.02	6.08	0.15	0.18	Trace.	0.14
Standard Gas-light Co.	6.17	7.00	8.91	9.14	0.33	0.26	0.31	0.32
East River Gas Co.	....	3.79	11.54	8.70	....	1.24	0.41	0.54

\* Sulphureted hydrogen was present.

The following will show the specific gravity of the gases:

OF WHAT COMPANY.	FIRST QUARTER.				SECOND QUARTER.				THIRD QUARTER.				FOURTH QUARTER.			
First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	First Quarter.	Second Quarter.	Third Quarter.	Fourth									

lamps since June 6, 1895 (the date when annexation took effect), in any part of such territory, without the knowledge of the Commissioner of Public Works, or without having received his orders for the same.

The Counsel to the Corporation is now engaged in examining the various contracts and franchises, copies of which are attached to this report, but he has given an opinion that since the annexation no company has any authority to erect additional lamps without the permission of the proper municipal authorities. On December 30 the Board of Estimate and Apportionment fixed upon the amount to be appropriated for "Lamps and Gas and Electric Lighting" in the Final Estimate for the year 1896, and allowed for 400 lamps only to be lighted by the Bronx Gas and Electric Company. I consequently notified the company to discontinue the lighting of all lamps in excess of 400, and that the lamps to be discontinued should be lamps which had been erected since the Annexation Act went into effect.

Bills have been received at this office for public lighting in the lately annexed territory for the last seven months of 1895 from the New York and New Jersey Globe Gas-light Company, for Williamsbridge and Wakefield, amounting to \$4,697.41; and from the Eastchester Electric Company for July and August, for the Village of Williamsbridge, amounting to \$329.06; but as this Bureau has had no available appropriation from which the bills could be paid, vouchers were not drawn for same. No bills have been received from the Bronx Gas and Electric Company for lighting in the Town of Westchester.

The franchise and contract given by the Village of Williamsbridge to the Williamsbridge Gas and Electric Light Company, provided that the entire plant of the company should be completed by January 1, 1896, and that its bonds should be filed on or before the 7th day of June, 1895, and as these provisions had not been complied with by the company sent in a petition to the Board of Aldermen on December 19 last, asking for an extension of time; and on December 30, 1895, the Board of Aldermen adopted a resolution extending the time for the completion of the plant until August 1, 1896, provided that a new bond be furnished to the Comptroller on or before the 1st day of February, 1896. The Board also eliminated the five-year limit and referred the matter of the time of the contract to the Commissioner of Public Works.

On comparing the expenditures for illuminating gas to the various offices and buildings during the year 1895 with the expenditures for previous years, I find that the consumption of gas is annually on the increase, and from observations made by me, and from the reports of our inspectors, I am of the opinion that a very large amount of gas is unnecessarily consumed, and hence, wasted; and I believe that by the exercise of proper care on the part of persons in charge of the public buildings a considerable saving could be effected. On dark afternoons clerks and other persons light up the gas-burners and incandescent lamps in the offices and court-rooms, and then when the closing hour arrives they depart from the offices, etc., without stopping to shut off the burners, and consequently the gas is left burning and incandescent lamps are lighted all night. Burners are lighted in water-closets and cellars, and are allowed to be continually burning. In the armories of the National Guard I have reason to believe that many of the gas-burners are not shut off when the exercises of the evening are over, as my inspectors have informed me that they have found burners lighted at midday in some of these armory buildings. Over this matter I have no personal control, but I shall consult with the officer who has supervision over the janitors and watchmen of the buildings and suggest that a circular letter be prepared and delivered to each of such persons with the view of putting an end to this unnecessary waste.

Considerable annoyance has been caused during the past year in consequence of the continued and willful breakage of the glass in the public lamps, 111,690 lights of glass and 1,700 Boulevard lamp globes having been broken during the year, and the metal parts of many of the lanterns have been entirely destroyed. Numerous instances have occurred where lanterns have been reglazed by the lamplighter during the morning hours, and then the same lamps found broken at lighting time. Of course, under such circumstances, the gas-lamps will not remain lighted when high winds prevail, and consequently complaints are received because the lamps are extinguished. This office has no means to remedy the matter, although I have written many letters to Police Captains, calling their attention to the same, and the evil can only be prevented by greater vigilance on the part of the police.

In my report for the year 1894 I called attention to the unsightly transparencies which were constantly being placed over the public lamps, thereby detracting from the decent appearance of our public thoroughfares and depriving the public of much of the light from the street lamps, and I then stated that the matter was a cause of frequent complaints. The Board of Aldermen then considered the subject and adopted the following resolution:

"Resolved, That no request be entertained or permission granted hereafter for the use of public lamp-posts for signs of any character, excepting to Public Departments or Bureaus of National, State or City Government, or for special occasions in commemoration of some public event, or to religious or benevolent organizations, to place transparencies thereon, under the following conditions and restrictions, to wit:

Said transparencies (calling attention to a meeting or other gathering) shall be limited for each event to four lamp-posts, the location of which to be designated in the resolution granting the said permission.

The maximum of time for which the said four lamp-posts shall be used as mentioned shall be two weeks.

The organization receiving such permission shall cause the immediate removal of the transparencies at the expiration of two weeks, and failure to do so shall be deemed sufficient cause for this Board to deny any further like consideration to said organization.

Resolved, That the Police Department be and is hereby requested to prevent the placing of transparencies, signs, placards, etc., of any nature, on the public lamp-posts of the city, unless a permit for the placing of the same shall be obtained from the Commissioner of Public Works, under resolution of the Board of Aldermen.

Resolved, That all resolutions or ordinances heretofore adopted by the Common Council, inconsistent with the foregoing, be and the same are hereby repealed."

Adopted by the Board of Aldermen March 12, 1895. Approved by the Mayor March 21, 1895.

It was expected that on the adoption of the above resolution the evil would in a measure be abated, but I find, however, that the nuisance is still continued. Transparencies are found over the public lamps advertising all sorts of entertainments, and in many cases the transparencies are not removed when the entertainment is over. Only a few days since a transparency was found on a lamp-post calling attention to a lecture which took place on December 9, and then the Bureau of Incumbrances was called upon to remove it at the public expense.

This Bureau has 5 inspectors to cover 625 miles of lighted streets, and hence it cannot be expected that with this limited force constant supervision can be had over such matters, and I think that the placing of these transparencies and advertising signs on the public lamps should be entirely prohibited. All of which is respectfully submitted.

S. McCORMICK, Superintendent of Lamps and Gas.

EXHIBIT "A."—Statement Showing the Amounts on Vouchers Drawn for Gas to the Various Public Markets, Offices, etc., and for Fitting-up, Repairing, Lighting, etc., the Public Lamps for the First, Second, Third and Fourth Quarters for the Year 1895, with the Totals for the Whole Year.

	FIRST QUARTER ENDING MAR. 31.	SECOND QUARTER ENDING JUNE 30.	THIRD QUARTER ENDING SEPT. 30.	FOURTH QUARTER ENDING DEC. 31.	TOTAL.
Washington Market	\$1,153.24	\$852.49	\$811.62	\$1,117.87	\$3,935.22
Catharine Country Market	53.63	36.50	34.38	51.50	175.00
Catharine Meat Market	28.62	21.00	22.38	29.62	101.62
Fulton Meat Market	369.88	251.50	221.74	357.76	1,204.88
Fulton Country Market	538.75	385.13	329.75	462.24	1,715.87
Essex Market	20.50	14.00	4.00	.....	38.50
Centre Market	120.87	95.50	105.38	173.38	495.13
Clinton Market	238.63	189.74	181.12	243.75	853.24
Union Market	35.00	16.14	1.01	5.00	57.15
Tompkins Market	264.00	216.75	182.00	230.75	893.50
Jefferson Market	252.75	121.50	84.00	214.00	672.25
First District Police Court	379.00	311.75	269.26	188.88	1,147.89
Second District Police Court	140.50	53.75	4.75	77.50	276.50
Third District Police Court	105.75	59.50	39.25	97.25	302.75
Fourth District Police Court	171.00	99.75	66.75	176.25	513.50
First District Civil Court	23.63	7.24	.....	.....	30.87
Second District Civil Court	10.12	8.00	5.61	8.50	32.23
Harlem Court-house	132.62	258.89	116.38	240.52	758.41
Fourth District Civil Court	20.00	22.75	22.00	21.50	85.25
Fifth District Civil Court	49.25	36.50	14.50	32.75	133.50
Sixth District Civil Court	14.00	12.25	7.25	14.50	46.00
Criminal Court-house	1,703.62	1,750.87	1,708.38	1,689.62	6,852.49
Tenth District Civil Court	.....	1.00	2.87	4.87	8.74
Court of Special Sessions	62.50	48.62	34.61	27.38	173.11
Brown Stone (Court-room) Building	184.12	121.38	76.37	237.13	619.00
New Court-house	2,488.88	1,981.38	1,425.26	1,928.99	7,824.51
City Hall	505.63	507.24	380.63	508.00	1,961.50
Corporation Counsel's Office	19.62	12.85	13.37	17.87	63.74
Corporation Attorney's Office	84.00	55.25	21.75	.....	161.00
Public Administrator's Office	34.38	32.12	19.88	42.00	128.38
Board of Assessors' Office	14.00	11.99	8.12	20.37	54.43
Department of Public Works	417.49	351.88	252.37	313.13	1,334.87
City Record	6.51	4.50	2.50	4.00	17.51
Register's Office	166.37	111.88	95.13	166.00	533.38
County Jail	443.25	415.25	308.75	415.75	1,643.00
Pipe Yard, Rivington St.	7.01	3.51	1.37	3.87	15.70
Pipe Yard, East 24th St.	43.75	31.25	23.25	33.00	131.25
Water Purveyor's Office, Mulberry St.	1.12	6.12	5.38	6.75	19.37
Water Purveyor's Office, No. 134 West 30th St.	20.50	13.00	7.00	17.25	57.75
Water Purveyor's Office, East 87th St.	20.00	15.88	18.12	35.87	89.87
Water Purveyor's Office, No. 3365 Third Ave.	.....	26.25	7.00	13.75	47.00

	FIRST QUARTER ENDING MAR. 31.	SECOND QUARTER ENDING JUNE 30.	THIRD QUARTER ENDING SEPT. 30.	FOURTH QUARTER ENDING DEC. 31.	TOTAL.
South Gate-house, Central Park	\$54.87	\$30.63	\$42.62	\$63.88	\$192.00
Engine-house, High Bridge	157.00	121.75	122.50	174.00	575.25
Engine-house, West 98th St.	548.00	309.63	498.25	2,094.12	3,615.07
Clock Tower, Third District Court-house	280.25	375.75	366.25	380.25	1,402.50
Bureau of Streets and Roads	9.50	5.37	6.76	9.26	30.89
Bureau of Incumbrances, East 16th St.	45.75	18.38	4.75	32.13	101.01
Photometrical Rooms, Bowery and Grand St.	15.88	7.37	5.00	15.50	43.75
Photometrical Rooms, No. 231 East 79th St.	16.62	8.25	1.62	24.25	50.74
Office, Chief Engineer Croton Aqueduct	48.90	18.24	21.76	88.96	210.75
7th Regiment Armory	1,759.25	1,022.50	448.75	1,558.42	4,788.92
8th Regiment Armory	1,352.38	867.02	302.89	1,032.78	3,615.07
9th Regiment Armory	618.75	356.75	139.25	490.75	1,605.13
10th Regiment Armory	489.75	455.25	190.25	522.75	1,618.50
22d Regiment Armory	1,647.25	890.26	441.14	1,220.65	4,199.39
69th Regiment Armory	253.50	238.50	159.25	255.50	906.50
71st Regiment Armory	2,333.00	1,525.00	518.50	1,505.50	5,942.00
Troop "A" Armory	503.00	71.39	464.88	541.90	541.90
1st Battery Armory	195.25	131.75	80.00	142.50	552.50
Engine room on bridge over Ship Canal	4.25	12.87	20.37	37.49	37.49
Office Commissioner Street Improvements, 23d and 24th Wards	313.38	51.00	177.38	541.76	541.76
Department of Buildings	15.50	16.25	8.50	45.75	86.00
Corporation Yard, West 56th St.	8.50	8.50	5.26	10.00	32.26
Public Bath, Battery	3.25	21.75	5.62	30.62	30.62
Public Bath, Duane St.	4.38	27.75	6.00	38.13	38.13
Public Bath, Market St.	3.50	25.25	5.25	35.00	35.00
Public Bath, Grand St.	1.50	28.12	3.75	33.37	33.37
Public Bath, Horatio St.	3.25	27.38	4.50	35.13	35.13
Public Bath,					

*Standard Gas-light Company*, Madison Square District—Number of lamps lighted September 30, 1895, 999; number of lamps lighted December 31, 1895, 999.

*Standard Gas-light Company*, Harlem District—Number of lamps lighted September 30, 1895, 1,424; number of old lamps relighted during the quarter, 1—total, 1,425. Less lamps discontinued during the quarter, 1; number of lamps lighted December 31, 1895, 1,424.

Total number of lamps lighted by Standard Gas-light Company, December 31, 1895, 2,423.

*Central Gas-light Company*—Number of lamps lighted September 30, 1895, 1,365; number of new lamps lighted during the quarter, 23; number of old lamps relighted during the quarter, 1—total, 1,389. Less lamps discontinued during the quarter, 10; number of lamps lighted December 31, 1895, 1,379.

*Northern Gas-light Company*—Number of lamps lighted September 30, 1895, 2,464; number of new lamps lighted during the quarter, 176; number of old lamps relighted during the quarter, 3—total, 2,643. Less lamps discontinued during the quarter, 12; number of lamps lighted December 31, 1895, 2,631.

*Yonkers Gas-light Company*—Number of lamps lighted September 30, 1895, 656; number of new lamps lighted during the quarter, 129; number of old lamps relighted during the quarter, 1—total, 786; number of lamps lighted December 31, 1895, 786.

Total number of gas-lamps lighted December 31, 1895, 25,492.

#### NAPHTHA-LAMPS.

*New York and New Jersey Globe Gas-light Company*—Number of lamps lighted September 30, 1895, 358; less lamps discontinued during the quarter, 125; number of lamps lighted December 31, 1895, 233.

#### ELECTRIC-LAMPS.

*United States Illuminating Company*—Number of lamps lighted September 30, 1895, 411; number of lamps lighted December 31, 1895, 411.

*Brush Electric Illuminating Company*—Number of lamps lighted September 30, 1895, 352; number of new lamps lighted during the quarter, 1—total, 353; number of lamps lighted December 31, 1895, 353.

*Madison Square Light Company*—Number of lamps lighted September 30, 1895, 299; number of lamps lighted December 31, 1895, 299.

*Mt. Morris Electric-light Company*—Number of lamps lighted September 30, 1895, 343; number of new lamps lighted during the quarter, 1—total, 344; number of lamps lighted December 31, 1895, 344.

*Harlem Lighting Company*—Number of lamps lighted September 30, 1895, 228; number of lamps lighted December 31, 1895, 228.

*Manhattan Electric-light Company*—Number of lamps lighted September 30, 1895, 162; number of lamps lighted December 31, 1895, 162.

*Edison Electric Illuminating Company*—Number of lamps lighted September 30, 1895, 125; number of lamps lighted December 31, 1895, 125.

*North River Electric-light and Power Company*—Number of lamps lighted September 30, 1895, 831; less lamps discontinued during the quarter, 1; number of lamps lighted December 31, 1895, 830.

Total number of electric-lamps lighted December 31, 1895, 2,752.

#### RECAPITULATION.

Number of gas-lamps lighted September 30, 1895.....	25,103	28,212
Number of naphtha-lamps lighted September 30, 1895.....	358	
Number of electric-lamps lighted September 30, 1895.....	2,751	
Number of new gas-lamps lighted during the quarter.....	379	
Number of new electric-lamps lighted during the quarter.....	2	381
Number of old gas-lamps relighted during the quarter.....	67	67
Less gas-lamps discontinued during the quarter.....	54	28,660
Less naphtha-lamps discontinued during the quarter.....	125	
Less gas-lamps discontinued on account of electric-lights.....	3	
Less electric-lamps discontinued during the quarter.....	1	183
Total number of lamps lighted December 31, 1895.....	28,477	

*Summary of the Lamp Account, Showing the Number of New Lamps Lighted, Old Lamps Relighted and Lamps Discontinued by each Gas and Electric-light Company, during the year ending December 31, 1895.*

*Consolidated Gas Company, Branch 1*—Number of lamps lighted December 31, 1894, 2,271; number of new lamps lighted during the year, 44; number of old lamps relighted during the year, 17—total, 2,332. Less lamps discontinued during the year, 31; less gas-lamps discontinued on account of electric-lights, 33—total, 64; number of lamps lighted December 31, 1895, 2,268.

*Consolidated Gas Company, Branch 2*—Number of lamps lighted December 31, 1894, 1,233; number of new lamps lighted during the year, 8; number of old lamps relighted during the year, 30—total, 1,271. Less lamps discontinued during the year, 20; less lamps discontinued on account of electric-lights, 64; transferred to Equitable Gas-light Company, 57—total, 141; number of lamps lighted December 31, 1895, 1,130.

*Consolidated Gas Company, Branch 3*—Number of lamps lighted December 31, 1894, 1,399; number of new lamps lighted during the year, 9; number of old lamps relighted during the year, 8—total, 1,416. Less lamps discontinued during the year, 8; less gas-lamps discontinued on account of electric-lights, 89; transferred to Equitable Gas-light Company, 32—total, 129; number of lamps lighted December 31, 1895, 1,287.

*Consolidated Gas Company, Branch 4*—Number of lamps lighted December 31, 1894, 3,361;

**EXHIBIT "E."**—Statement Giving the Illuminating Power in Candles of the Gases Supplied to the City by the Several Gas-light Companies during the Quarter ending December 31, 1895, as Shown by the Daily Observations at the Photometrical Rooms of the Department of Public Works.

FOR WHAT TIME.	EAST RIVER.			CON., BRANCH 1.			CON., BRANCH 2.			CON., BRANCH 3.			CON., BRANCH 4.			CON., BRANCH 6.			N. Y. MUTUAL.			EQUITABLE.				
	ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.				
Week ending—	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.																				
Oct. 5, 1895.....	26.10	28.08	27.14	21.56	25.44	23.77	21.84	23.76	22.87	23.96	28.86	26.48	23.16	23.64	23.34	24.79	25.84	25.26	24.78	27.48	25.84	24.82	28.34	26.80	24.14	25.60
" 12, ".....	26.48	29.66	27.92	20.08	24.35	22.62	20.70	22.60	21.86	24.14	25.03	25.27	23.28	23.32	24.54	24.20	25.70	24.84	25.64	26.06	26.32	23.82	28.94	26.00	24.23	25.80
" 19, ".....	27.80	30.34	28.79	21.60	23.06	23.12	20.84	23.48	21.93	25.12	28.24	26.97	22.45	24.08	23.12	25.42	26.80	26.02	26.05	27.54	26.81	26.84	28.34	27.86	24.20	28.20
" 26, ".....	27.46	30.08	28.63	22.18	23.52	22.74	21.02	21.87	21.56	28.34	26.82	26.83	24.84	23.79	24.32	28.20	26.36	26.65	26.18	27.38	26.82	24.08	26.68	29.02	24.11	28.11
Nov. 2, 1895.....	27.54	30.20	28.79	22.22	23.80	23.41	21.22	22.13	21.57	25.66	27.22	26.59	22.48	23.12	23.52	25.06	28.24	26.02	25.20	28.08	27.02	24.98	28.30	27.22	24.04	27.67
" 9, ".....	28.52	29.58	29.12	22.70	25.82	24.34	22.42	23.62	22.89	25.64	28.98	27.74	21.88	24.60	23.02	20.66	28.08	27.02	24.98	28.30	27.22	24.04	27.62	29.53	24.04	27.67
" 16, ".....	27.48	28.74	28.06	22.45	25.27	25.44	22.26	23.90	23.05	27.64	29.32	28.29	21.52	23.30	22.43	25.10	27.51	26.72	25.78	26.31	26.24	28.96	28.25	24.04	27.67	
" 23, ".....	27.40	28.60	28.04	22.42	25.74	25.41	20.50	23.84	22.67	27.60	29.06	28.12	22.46	23.54	23.22	25.14	26.54	26.13	27.38	28.86	27.94	27.48	29.76	28.75	24.12	28.80
" 30, ".....	26.04	29.12	27.80	23.92	25.74	25.56	21.08	24.74	23.15	25.65	29.04	27.68	22.46	23.72	23.05	24.28	25.59	25.48	25.48	27.19	28.66	28.88	25.87	27.30	29.66	
Dec. 7, 1895.....	28.54	29.70	29.04	24.44	27.38	25.58	21.78	24.34	22.97	26.38	28.10	26.94	22.72	24.70	23.28	24.06	26.24	24.97	25.96	28.72	27.41	26.75	30.62	28.56	27.96	
" 14, ".....	28.34	31.14	29.77	24.00	26.58	24.84	22.94	22.02	25.30	27.52	26.68	20.86	22.12	21.30	25.82	28.78	26.76	26.80	27.81	28.95	23.70</td					

## EXHIBIT "F."

Time Table for Lighting and Extinguishing the Public Gas-lamps for the Year 1896.

MONTHS.	DATE.	BEGIN TO LIGHT.	BEGIN TO EXTINGUISH.	MONTHS.	DATE.	BEGIN TO LIGHT.	BEGIN TO EXTINGUISH.
January	1 to 7	4:30	6:30	July	2 to 8	7:30	3:15
"	8 to 14	4:40	6:30	"	9 to 15	7:30	3:15
"	15 to 21	4:50	6:25	"	16 to 22	7:20	3:15
"	22 to 28	5:00	6:25	"	23 to 29	7:20	3:15
"	29 to Feb. 4	5:05	6:15	"	30 to Aug. 5	7:10	3:30
February	5 to 11	5:10	6:10	August	6 to 12	7:10	3:45
"	12 to 18	5:20	5:55	"	13 to 19	6:55	4:00
"	19 to 25	5:30	5:55	"	20 to 26	6:45	4:10
"	26 to Mar. 4	5:30	5:45	"	27 to Sept. 2	6:30	4:20
March	5 to 11	5:40	5:35	September	3 to 9	6:15	4:30
"	12 to 18	5:50	5:20	"	10 to 16	6:05	4:40
"	19 to 25	6:00	5:10	"	17 to 23	5:55	4:50
"	26 to Apr. 1	6:10	4:55	October	24 to 30	5:40	5:00
April	2 to 8	6:15	4:40	"	1 to 7	5:30	5:10
"	9 to 15	6:25	4:30	"	8 to 14	5:20	5:10
"	16 to 22	6:30	4:20	"	15 to 21	5:10	5:20
"	23 to 29	6:40	4:10	"	22 to 28	5:00	5:30
"	30	6:45	4:00	"	29 to Nov. 4	4:45	5:35
May	1 to 6	6:45	4:00	November	5 to 11	4:40	5:45
"	7 to 13	6:55	3:40	"	12 to 18	4:30	6:00
"	14 to 20	7:00	3:30	"	19 to 25	4:25	6:00
"	21 to 27	7:10	3:15	"	26 to Dec. 2	4:20	6:10
June	28 to June 3	7:15	3:15	December	3 to 9	4:20	6:15
"	4 to 10	7:25	3:15	"	10 to 16	4:20	6:20
"	11 to 17	7:25	3:15	"	17 to 23	4:20	6:20
"	18 to 24	7:30	3:15	"	24 to 31	4:20	6:25
"	25 to July 1	7:30	3:15				

DEPARTMENT OF PUBLIC WORKS—BUREAU OF LAMPS AND GAS, NEW YORK, December 24, 1895.

SIR.—The above table will show the time for lighting and extinguishing the public lamps during the year 1896. All the lamps to be lighted within one hour from the time of beginning.

CHARLES H. T. COLLIS, Commissioner of Public Works.

S. MCCRICK, Superintendent of Lamps and Gas.

## INSTRUCTIONS TO LAMP-LIGHTERS.

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

II.—The lamps must be kept clean and in good condition; the top glass, sides and bottom glass must be thoroughly cleaned, both on the outside and inside of the lantern, three times in each week, and oftener if necessary to keep them clean, and dust and dirt must be brushed from the frames, and the glass street signs must also be cleaned. Lighters must bear in mind that with clean glass a greater brilliancy is obtained from the flame. In the winter season the snow must be brushed from the lanterns after each snow fall. Dirty and disordered lamps will be considered as evidence of a careless and incompetent Lamp-lighter.

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

IV.—Advertising signs on the lamp-posts or lantern, or colored or ground glass in the lantern, are a violation of a Corporation Ordinance, and must not be permitted, except the red glass near the fire-alarm boxes, and these must be kept in place.

V.—If a Lighter, on extinguishing a lamp, should find a glass broken, he must replace the same before lighting time of the same day. If he should find a glass broken while lighting, he must replace the same before lighting time of the following day, and the bottom glass must be kept in place as well as sides and tops. If he should find any portion of the tin work broken, he must take the lantern to his Superintendent for repairs. Broken glass must not be deposited upon the street.

VI.—The burners must be kept in good condition to burn with a full, clear, steady flame, and not with a single or forked jet. If a burner, when lighted, should not emit the proper flame, then the same must be immediately cleared from its obstruction; and if it will not burn properly, another burner must be substituted.

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

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

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

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

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

S. MCCRICK, Superintendent of Lamps and Gas.

## CORPORATION ORDINANCES RELATING TO THE PUBLIC LAMPS.

Sec. 68. Any person breaking, mutilating, or obstructing any of the public lamps in the City of New York, shall be liable to a penalty of five dollars for each offence.

Sec. 69. Any person who shall break, misplace or carry away any of the glass street signs now or hereafter to be placed in any of the public lamps, shall be liable to a penalty of three dollars for each offence.

Sec. 70. No person without permission of the Commissioner of Public Works, shall take up, remove or carry away any public lamp-post in the City of New York, under the penalty of ten dollars for each offence.

Sec. 71. No person shall remove, or cause or permit to be removed, any public lamp-post now or hereafter to be placed in front of their premises for the purpose of constructing a vault or otherwise, without the permission of the Superintendent of Lamps and Gas; and the owner or owners of such vault shall cause the lamp-posts so removed to be reset at their own expense immediately upon the completion of the vault, under the penalty of twenty-five dollars for each offence.

Sec. 226. No person shall attach, place, or paste, or cause to be attached, placed or pasted, any sign or advertisement, or other matter, upon any public lamp-post, now erected in the City of New York or that may hereafter be so erected, under the penalty named in the next section.

Sec. 227. The violation of any of the provisions of the preceding section shall be punishable by a fine of not less than one dollar, or more than ten dollars.

Sec. 412. It shall not be lawful to erect any telegraph-post within a distance of ten feet of any public street-lamp. Any person offending against any of the provisions of this section shall be deemed guilty of a misdemeanor, and on conviction thereof before any of the police magistrates or justices of this city, shall be punished by a fine not exceeding ten dollars, or in default of the payment of such fine, by imprisonment not exceeding ten days.

Sec. 1953 of the New York City Consolidation Act of 1882. If any person shall willfully break, take down, or carry away any glass lamp hung or fixed in any of the streets of the City of New York, or extinguish the lights therein, or by aiding or abetting in the same, shall be subject to a fine of twenty-five dollars, and in default of payment of such fine the offender shall be committed to the penitentiary for the term of two months.

## EXHIBIT "G."

This agreement made and entered into this 27th day of June, A. D. 1894, by and between The Village of Wakefield, in the County of Westchester and State of New York, of the first part, and The New York and New Jersey Globe Gas-light Company, Limited, of the City of New York, a corporation created by and organized and existing under the Laws of the State of New York, of the second part,

Witnesseth: That the said party of the second part, for and in consideration of the covenants, articles and agreements hereinafter mentioned, on the part of the said party of the first part and its successors to be observed and kept, hereby agrees with the party of the first part, to place its improved fixtures on street lanterns, which are hereinafter mentioned, at its own expense, furnish material used in lighting, and men to light and keep the lanterns clean, and to light all such lamps such number of nights and for such number of hours per night as are hereinafter mentioned, during the continuance of this agreement, in accordance with the following specifications for the term of one (1) year, it being mutually understood that this contract shall continue for another term unless official notice be given by either party to the other sixty days before its expiration.

The lamps to be lighted by the said party of the second part, shall be lamps used in the streets of the Village of Wakefield and not less than fifty (50) in number, and as many more as the party of the first part may require at the same rate.

The lamps shall be lighted every night in each month, and shall burn from dusk until dawn. The party of the second part shall furnish first-class lanterns and keep the same in good repair in which the party of the second part shall place its improved attachments for lighting.

The party of the second part shall furnish first-class iron posts. All posts, lanterns, and attachments so furnished to remain the property of the party of the second part.

The lanterns shall be cleaned by said party of the second part during the period of lighting, to the acceptance of the party of the first part or its committee on lamps.

The price to be paid to the party of the second part shall be twenty-one dollars and fifty cents (\$21.50) per lamp per year for each and every lamp lighted as heretofore agreed upon, payable monthly as the service is performed. An additional sum of seventy-five (75) cents to be paid to the party of the second part for each and every lamp discontinued, but at no time during the term of this contract shall the lamps to be lighted be reduced below fifty in number. Any change in locations of the lamps desired by the party of the first part to be made at the expense of the party of the second part, which amount the party of the first part covenants and agrees to pay unto the party of the second part at the times aforesaid.

This agreement shall take effect on and from the first (1st) day of July, A. D. 1894.

In Witness Whereof, the parties hereto have caused their respective corporate seals to be thereunto affixed and attested by the signatures of their officers or duly authorized agents, the day and year first above written.

(Signed) THE VILLAGE OF WAKEFIELD, N. Y., by ALBERT J. PIERSON, President.

(Signed) THE NEW YORK &amp; NEW JERSEY GLOBE GAS LT. CO. (LTD.), by MARTIN MALONEY, Vice-President.

[SEAL.] Attest: SAM'L H. HOEV, Treas.

## EXHIBIT "H."

Village of Williamsbridge, County of Westchester, N. Y., ss.:

I, the undersigned, do hereby certify that at a regular meeting of the Board of Trustees of Williamsbridge duly held on the eleventh day of October, 1894, the said Board of Trustees duly passed a resolution, of which the following is a true copy:

Moved by Trustee Johnston,

Seconded by Trustee Lellis,

Resolved, That the bid of the New York and New Jersey Globe Gas-light Company, Limited, for five (5) years for the sum of twenty-one dollars and thirty-three cents (\$21.33) per lamp per year be accepted by this Board. This Board agreeing to use not less than two hundred and fifty (250) lamps. The said Company agreeing to withdraw lamps in blocks of fifty (50) as gas-mains may be laid in the village for street lighting. And that a contract be drawn up and executed by the President and Clerk.

In witness whereof, I have hereunto set my hand and affixed the corporate seal of said village of Williamsbridge, N. Y., aforesaid on the 11th day of October, 1894.

(Signed) ROBERT WALLACE, Clerk of the Board of Trustees and of Williamsbridge, N. Y.

[SEAL.]

This agreement, made and entered into this 18th day of October A. D. 1894, by and between the Village of Williamsbridge, in the County of Westchester and State of New York, of the first part, and the New York and New Jersey Globe Gas-light Company, Limited, of the City of New York, a corporation created by and organized and existing under the Laws of the State of New York, of the second part.

Witnesseth, That the said party of the second part, for and in consideration of the covenants, articles, and agreements hereinafter mentioned, on the part of the said party of the first part and its successors to be observed and kept, hereby agrees with the party of the first part, to place its improved fixtures on street lanterns, which are hereinafter mentioned, at its own expense, furnish material used in lighting, and men to light and keep the lanterns clean, and to light all such lamps such number of nights and for such number of hours per night as are hereinafter mentioned, during the continuance of this agreement, in accordance with the following specifications for the term of five years, it being mutually understood that this contract shall continue for another term unless official notice be given by either party to the other sixty days before its expiration.

The lamps to be lighted by the said party of the second part shall be lamps used in the streets of the Village of Williamsbridge and not less than two hundred and fifty (250) in number. And as many more as the party of the first part may require at the same rate. This contract is made in pursuance of a resolution of the Board of Trustees of Williamsbridge passed at their meeting held on the 11th day of October, 1894, of which a copy is attached to this contract.

The lamps shall be lighted every night in each month, and shall burn from dusk until dawn, and said party of the first part shall, if it be required that said lights remain burning a greater number of nights per month, or a greater number of hours per night, pay therefore to said party of the second part, a sum in addition to and at the same rate as the compensation hereinafter fixed and allowed.

The party of the second part shall furnish first-class lanterns and keep the same in good repair, in which the party of the second part shall place its improved attachments for lighting.

The party of the second part shall furnish first-class iron posts. All posts, lanterns, attachments, etc., etc., to be and remain the property of the party of the second part.

The lanterns shall be cleaned by said party of the second part during the period of lighting, to the acceptance of the party of the first part or its committee on lamps.

The price to be paid to the party of the second part shall be twenty-one dollars and thirty-three cents per lamp per year for each and every lamp lighted heretofore agreed upon, payable monthly as the service is performed, which amount the party of the first part covenants and agrees to pay unto the party of the second part at the times aforesaid.

This agreement shall take effect on and from the first day of September A. D. 1894.

In witness whereof, the parties hereto have caused their respective corporate seals to be hereunto affixed and attested by the signatures of their officers or duly authorized agents, the day and year first above written.

(Signed) ARTHUR J. MACE, President of Village of Williamsbridge.

[SEAL.] THE N.Y. &amp; N.J. GLOBE GAS-LIGHT CO. (Limited).

By MARTIN MALONEY, Vice-President.

(Signed) Attest: ROBERT WALLACE, Village Clerk.

[SEAL.] Attest: SAMUEL H. HOEV, Treasurer.

## EXHIBIT "I."

Articles of agreement made and entered into this day of May, 1895, by and between the Village of Wakefield in the County of Westchester, State of New York, party of the first part, and the Eastchester Electric Company, a corporation duly organized under the Laws of the State of New York, and having a place of and carrying on business in the City of Mount Vernon, New York, and other surrounding towns and villages, party of the second part, Witnesseth: That said party of the first part, in consideration of the agreements herein contained on the part of the party of the second part, and of one dollar to it in hand paid, the receipt of which is hereby acknowledged by the said party of the second part, and the maintenance by the party of the second part of (2) two "Arc" lights for the term hereof, free to the party of the first part at places of points in said village to be designated by the party of the first part has granted and by these presents does grant to the party of the

Malden, Massachusetts, and is Treasurer of the Eastchester Electric Company; that the seal affixed to the foregoing instrument is the corporate seal of the said company and was affixed by order of the Board of Directors of said company, and that he signed his name as Treasurer thereto by like order.

Witness my hand and official seal.

WILLIAM W. PENFIELD, Notary Public.

EXHIBIT "J."

This agreement made and entered into this twenty-ninth day of April, 1892, by and between the Village of Williamsbridge, in the County of Westchester and State of New York, party of the first part, and the Eastchester Electric Company of the City of Mount Vernon, in the County of Westchester and State of New York, party of the second part.

Whereas, The party of the second part has heretofore, to wit, on the 10th day of December, 1891, made an offer in writing to the party of the first part, to light the streets and public places of said village with its improved incandescent electric-lights, of nominal twenty-five candle power each, at an expense of twenty-five dollars (\$25) per lamp per annum, and the Board of Trustees of the party of the first part, having on the same day, accepted said offer, and authorized a contract with the party of the second part, for a period of service not exceeding five years, and for as many lamps as the sum of one and one-half mills for every dollar of the assessed valuation of the taxable property of said village per annum should provide and pay for, and pursuant to chapter 452 of the Laws of New York for 1888, as amended by chapter 312 of the Laws of 1891.

Now, this agreement witnesseth: The parties hereto, for and in consideration of the covenants hereinafter set forth, to be observed and kept by them, hereby agree as follows:

1. That the party of the second part will erect and maintain proper circuits within the corporate limits of the Village of Williamsbridge, New York, for the purpose of lighting the streets and public places of said village by electricity and to the acceptance of the Board of Trustees of the party of the first part.

2. That it will supply to the party of the first part and duly maintain as many of its improved incandescent electric-lamps and lights in the streets and public places of said village as the sum of one and one-half mills for every dollar of the assessed valuation of the taxable property of said village per annum will provide and pay for, at the rate or price per light hereinafter set forth.

3. That the said lights shall be of a uniform standard of not less than twenty-five candle power each; that they shall be lit every night in the year from dark until dawn.

4. The said lamps and lights and their appurtenances shall be kept in a good and proper order, to the acceptance of the party of the first part or the Committee on Lamps of its Board of Trustees.

5. The location of said lights shall be determined by the party of the first part, and the location of any of said lamps will be changed by the party of the second part upon the resolution of the Board of Trustees of the party of the first part, if the public interests of said village, in the discretion of said Board, require, provided that thirty (30) days' notice in writing be first given to the party of the second part. It being understood and agreed that the expense of such change of location is to be borne by the party of the first part.

6. The party of the first part hereby agrees to pay to the party of the second part the sum of twenty-five dollars (\$25) per annum per light, for as many of said electric-lights as the sum of one and one-half mills for every dollar of the assessed valuation of the taxable property of said village, per annum, will pay and provide, for a period of service not exceeding five years from the tenth day of May, 1892, when said service shall commence.

7. The said price or compensation for said lighting service shall be paid by the party of the first part to the party of the second part, monthly, on or before the 15th of the month, for lights furnished during the preceding month, as the service is performed.

8. If by reason of any difference in the assessed taxable valuation of said village, from year to year, the number of said lights shall be increased or diminished, such increase or decrease shall not take effect until and from the 10th day of May following the completion of the Annual Assessment Roll of said village, unless the parties hereto shall otherwise agree, in writing.

9. The party of the first part shall have the option and privilege of renewing this contract for a period of six months or any less period, provided that due notice in writing is given to the party of the second part, before the day of the termination of this contract.

In witness whereof, the parties hereto have caused these presents to be signed and attested by their proper officers, and their corporate seals to be affixed hereto, in duplicate, on the day and year first above written.

(Signed) THE VILLAGE OF WILLIAMSBRIDGE,

By ARTHUR J. MACE, President.

[SEAL.] Attest: (Signed) ROBERT WALLACE, Village Clerk.

[SEAL.] (Signed) EASTCHESTER ELECTRIC CO.,

By CLARENCE R. DEAN, President.

Attest: (Signed) SCHUYLER C. STROCK, Secretary.

State of New York, County of Westchester, ss.:

On this second day of May, 1892, before me, the undersigned, personally came Arthur J. Mace, to me personally known to be the President of the Village of Williamsbridge, a municipal corporation, and Robert Wallace, to me personally known to be the Clerk of said village, mentioned and described in the foregoing instrument, and they thereupon severally and duly acknowledged to me that they executed the same for and on behalf of the said Village of Williamsbridge.

And the said Arthur J. Mace and Robert Wallace, being by me severally duly sworn, each for himself, deposes and says: That the said Arthur J. Mace is the President and the said Robert Wallace is the Clerk of the said Village of Williamsbridge.

That the seal affixed to the said foregoing instrument is the corporate seal of the said village, and that they severally signed and executed the said instrument and affixed the said corporate seal thereto, by virtue and under the authority and direction of a resolution therefor passed by the Board of Trustees of said village, on the 29th day of April, 1892.

(Signed) D. R. SHEIL, Notary Public.

State of New York, County of Westchester, ss.:

On this 4th day of May, 1892, before me, the undersigned, personally came Clarence R. Dean, to me personally known to be the President of the Eastchester Electric Company, and Schuyler C. Strock, to me personally known to be the Secretary of said company, mentioned and described in the foregoing instrument, and they thereupon severally and duly acknowledged to me that they had executed the same for and on behalf of the said Eastchester Electric Company.

And the said Clarence R. Dean and Schuyler C. Strock, being by me severally and duly sworn, each for himself, deposes and says: That the said Clarence R. Dean is the president and the said Schuyler C. Strock is the secretary of the said Eastchester Electric Company. That the seal affixed to the foregoing instrument is the corporate seal of the said company, and that they severally signed and executed the said instrument and affixed the said corporate seal thereto, by virtue and under the authority of a resolution of the Board of Directors of said company.

[SEAL.] (Signed) JOHN R. GEARY, Notary Public (No. 62), New York City.

Contract made and entered into this 30th day of December, 1891, by and between the Village of Williamsbridge, in the County of Westchester, State of New York, party of the first part, and the Eastchester Electric Company, a corporation duly organized under the Laws of the State of New York, and having a place of business in the Village of Mount Vernon, New York, and other surrounding towns and villages, party of the second part, witnesseth:

That said party of the first part, in consideration of the agreements herein contained on the part of the party of the second part, and of one dollar to it in hand paid, the receipt of which is hereby acknowledged by the said party of the second part, has granted and by these presents does grant to the party of the second part, its successors and assigns, the sole right for five years only, to lay, erect and construct suitable wire and other conductors with the necessary poles, pipes or other fixtures in, on, over and under streets, avenues and public parks and places of the said Village of Williamsbridge, for conducting and distributing electricity, together with all privileges and rights of way to erect poles and construct circuits for the establishment and operation of an electric lighting and power plant in said Village of Williamsbridge, in consideration of which the party of the second part has agreed and hereby does agree to and with said party of the first part to allow to said party of the first part the use of its poles, free of charge, for the stringing thereon of fire-alarm, police-alarm or telephone service wires, owned and operated by said village for its municipal purposes.

All main circuit poles shall be not less than 30 feet in length and 5 inches in diameter at the top, straight and smooth. They shall be set in a substantial and workmanlike manner and all holes dug for the placing of poles shall be properly protected while open, which shall not be longer than is necessary to properly perform the work of setting said poles. All dirt, flagging and other material removed shall be placed in as good condition as found and all surplus material removed and properly disposed of.

In case of dispute between the party of the second part and any property owner regarding the location of a pole or poles, the Committee on Highways of the Board of Trustees shall adjudge and determine.

It is further mutually agreed that the covenants, conditions and agreements herein are respectively binding on the parties hereto and each of their successors and assigns.

In witness whereof, The said party of the first part has caused its corporate seal to be affixed and these presents to be signed by its President by order of the Board of Trustees, and the party of the second part have hereunto caused its corporate seal to be hereto affixed and these presents to be signed by its Treasurer by order of its Board of Trustees, the day and year first above written.

In the presence of

(Signed) W. F. DUNCAN, President; THOMAS F. DELAHANTY, Village Clerk.

[SEAL.] EASTCHESTER ELECTRIC COMPANY, By H. N. CURTIS, Treasurer.

State of New York, County of Westchester, ss.:

On this 30th day of December, 1891, before me, a notary public, duly qualified, personally came and appeared W. F. Duncan, who being by me duly sworn, did say that he resided in the

Village of Williamsbridge, Westchester County, New York, and is the President of said village; that the seal affixed to the foregoing instrument is the corporate seal of said village, and was so affixed by order of the Board of Trustees of said village, and that he signed his name as President of said village by like order.

Witness my hand and official seal.

[SEAL.] THEO. CLARKSON, Notary Public for New York County, N. Y.

State of New York, County of Westchester, ss.:

On this 30th day of December, 1891, before me, a notary public, duly qualified, personally came and appeared H. N. Curtis, who being by me duly sworn, did say that he resided in the City of New York, and is the Treasurer of the Eastchester Electric Company; that the seal affixed to the foregoing instrument is the corporate seal of said company and was hereto affixed by order of the Board of Directors of said company, and that he signed his name as Treasurer thereto by like order.

Witness my hand and official seal.

[SEAL.] WILLIAM H. CLARKSON, Notary Public for New York County, N. Y.

EXHIBIT "K."

Agreement and contract made this 23d day of November, 1893, by and between the Town of Westchester, party of the first part, and the Bronx Gas and Electric Company, of the same place, party of the second part, witnesseth:

Whereas, On or about the 27th day of March, 1893, said party of the first part entered into a certain agreement and contract with one Edward M. Bliven, relative to the lighting of the streets, avenues, highways, public places and public buildings in said town, in the words and figures to wit:

Agreement and contract made this 27th day of March, 1893, by and between the Town of Westchester, party of the first part, and Edward M. Bliven, of the City of New York, party of the second part, witnesseth:

Whereas, By and under chapter 235 of the Laws of 1892, as amended by chapter 79 of the Laws of 1893, and now in force, provision is made for lighting the streets, avenues, highways, public places and public buildings of said town; and

Whereas, Pursuant to said acts of the Legislature, there was heretofore and on or about March 8, 1893, filed with the Clerk of the Town of Westchester a petition for such lighting, signed by the requisite number of taxable inhabitants of said town, and notices of such filing and of the time and place when the same would be acted upon by the Town Board of said town, was duly published; and

Whereas, Upon the hearing of said petition it was determined by said Town Board to contract for the lighting of the streets, highways, avenues, public places and public buildings in the said Town of Westchester, outside the corporate limits of the Village of Williamsbridge, that being the only incorporated village in said town, for the period of ten years; and

Whereas, The terms hereinafter set forth have been and are deemed proper and expedient by said Town Board and the said party of the second part has agreed to accept the same and to light said streets, places and buildings accordingly.

Now this contract and agreement witnesseth, as follows:

First—Said town, for and in consideration of one dollar to it paid by the said party of the second part, the receipt whereof is hereby acknowledged and of the agreements hereinafter set forth, hereby contracts and agrees to and with said party of the second part, that he and his executors, administrators and assigns shall hereafter have the right and privilege to furnish illuminating gas, gasoline and electric light to the Town of Westchester and for that purpose to open the streets, roads, highways and public places of said town, and to dig and construct, repair and maintain all necessary or proper trenches, conduits and appliances, and to lay down, set up, repair and maintain mains, pipes, lamps and appliances, and to erect, repair and maintain poles, supports, wires, lamps and appliances in upon and along said roads, streets, highways and public places, without hindrance or molestation from said town or any officer thereof.

Second—It is further agreed between the parties hereto that the rates or prices to be charged by said party of the second part, his executors, administrators and assigns, and to be paid by said town, shall be in public buildings for illuminating gas two (2) dollars per thousand feet and one cent per hour for each electric-light of nominal sixteen-candle power, for the streets, avenues, highways and public places of said town; twenty-four (24) dollars per year for each gas-lamp with three feet burners; twenty-one dollars and fifty cents for each gasoline lamp or light; and one hundred and twenty-five dollars per year for each arc electric-light of nominal 1,200 candle power; and nineteen and  $\frac{1}{10}$  dollars per year, for each electric-light of nominal twenty-five candle power; the street lights to burn each and every night from dusk to dawn, and the said town agrees to take from said party of the second part, his executors, administrators or assigns so much of said light at the rates aforesaid as will in each year amount to at least the sum of seven thousand, five hundred dollars, and shall not exceed in any one year one-half of one per cent. of the assessed valuation of said town.

The location of the lights under this contract shall be determined from time to time by the Town Board provided, however, that after being once fixed the location thereof shall be changed upon request of the town only upon thirty days' notice in writing being given to said party of the second part, his executors, administrators or assigns, the expense of said change to be borne by the town, and further provided that gas or gasoline lamps or lights shall not be located more than one hundred and seventy-five feet apart, and nominal twenty-five candle power electric-lights not more than one hundred and seventy-five feet apart, and arc lights not more than eight hundred feet apart, without the consent of the party of the second part, his executors, administrators or assigns.

Third—This contract to take effect on the termination of the present contract of the Commissioners of Improvements of said town with the New York and New Jersey Globe Gas Company, and to continue and remain in force for ten years from the date hereof, provided that it may be modified or changed by the formal consent of both parties, their successors, executors, administrators or assigns, but not otherwise.

Fourth—Payments under this contract shall be made by said town for such lighting, monthly, on the 15th day of each and every month, and shall be made to said party of the second part, or to the trustee or trustees of the mortgage or deed of trust, which may be made by the party of the second part, or his assigns, and hereinafter referred to if said party of the second part, or his assigns, request the same to be so paid.

Fifth—The said party of the second part agrees for himself, his executors, administrators and assigns that the light so furnished by him or them, under this contract shall be always of fair illuminating power; that it will not be interrupted or cut off at night except in case of necessity for repairs or otherwise; that all openings of the streets, roads, or highways under this contract or construction, repairs, or otherwise shall be made and done at reasonable times and hours and with as little obstruction to travel as may be; and shall be as speedily as possible completed and the streets, roads, and highways promptly restored to their former condition; that all lights, lamps, poles, supports and wires erected under this contract shall be kept and maintained in good and safe condition and promptly repaired, when necessary, upon notice from said town or any of its officers, and that no nuisance whatever will ever be allowed or permitted in connection with or growing out of the franchise hereby granted by the said party of the second part, his executors, administrators or assigns, and further that the said party of the second part, his heirs, executors, administrators and assigns will forever indemnify and save harmless the said town from any loss, damage or expense by reason of any injury to passengers upon and along the streets, roads, or highways of said town caused by any of the excavations, constructions, erections or repairs made by said party of the second part, his executors, administrators or assigns under this contract.

Sixth—Said town agrees on its part that it will forthwith and always provide by proper ordinances for the protection of the said trenches, mains, pipes, poles, lamps, supports and other property connected with the said lighting from molestation or interference as far as in its power it may do so.

Seventh—The renewal of this contract for lighting aforesaid shall at the expiration of said ten years be upon such terms as may be agreed upon, and upon such terms the said party of the second part, his executors, administrators and assigns shall have the right and privilege to continue to furnish said gas and electric light.

Eighth—In the event that the said party of the second part or his assigns shall issue mortgage bonds secured by mortgage or deed of trust upon the works, lands, machinery, pipes, poles, supports, wires, outfit, rights, privileges and franchises of said party of the second part, or his said assigns, and if the said party of the second part, or his assigns, so request said town, then and in that case all moneys payable hereunder by the said town as they mature from time to time shall from time to time be paid by the said Town of Westchester to the trustee or trustees of such bond and mortgage, when, and as such moneys are earned by or are payable to the said party of the second part or his assigns, by the said Town of Westchester hereunder and the Supervisor or the Clerk of said town or any Justice of the Peace thereof, is hereby authorized and directed upon the demand of said party of the second part or his assigns to certify to that effect upon the back of each of said bonds, and to affix the seal of said Town of Westchester to such certificate.

Ninth—This contract and agreement does not include the Village of Williamsbridge in said town and the territory included in the boundaries of said village is excluded from all the provisions thereof.

In witness whereof, The said town has caused its Supervisor and Town Clerk to affix their hands and the seal of said town, and the said party of the second part has hereunto affixed his hand and seal the day and year first above written.

[SEAL.] EDWARD M. BLIVEN, A. H. MORRIS, Supervisor.

[SEAL.] ALEX. DEVLIN, JR., Town Clerk.

And whereas, Said contract has heretofore been duly assigned to the said party of the second part, and said company being now engaged in building its plant and in operating some of the lights which have heretofore been located by the Town Board and Municipal authorities of said

Town of Westchester, and it being expedient to secure free lighting for the Town Hall and offices occupied by the municipal authorities of said town, and both the parties hereto having agreed on the terms of this contract, and having given their formal consent thereto; now in consideration of the premises and of the covenants and agreements hereinafter contained, this contract and agreement witnesseth:

Said contract dated March 27, 1893, is hereby in all respects ratified and confirmed except as hereinafter modified.

Said party of the second part agrees to light whenever and at all times when requested so to do by the Town Board of said town, during the continuance of said contract, the main hall of the Town Hall in said Town of Westchester, with good and sufficient arc lights of the kind specified in said contract, free of all charge and expense to the said party of the first part.

Said party of the second part agrees to light the offices and small rooms in said Town Hall during the continuance of said contract free of all charge and expense to said party of the first part, with either incandescent electric-lights or gas-lights, the period of such lighting to begin as soon as said party of the second part shall have a plant for either or both incandescent electric lighting or gas lighting.

Said party of the second part agrees that it will maintain during the term of said contract made March 27, 1893, all lights which may be located under said contract by said Town Board, so long as said party of the first part shall carry out and perform the agreements on its part in said contract and in this contract contained, and said party of the second part, shall keep all of said lights in good repair, and all lights located and put in operation shall not be discontinued during the continuance of said contract without the consent of both parties hereto.

If at any time during the continuance of said contract the said party of the second part should be required by law or by the said party of the first part, or by its successors, or by the municipal authorities having control in the premises, to lay or run its wires underground, or in any subway, then in such case the cost of any change from overhead construction, such as is now in course of construction, shall be borne and paid by said party of the first part.

This contract and agreement shall be binding upon the successors and assigns of both parties hereto, but shall not include the Village of Williamsbridge, in said town, and the territory included in the boundaries of said village is excluded from all the provisions hereof.

In witness whereof, The said town has caused its Supervisor and Town Clerk to affix their hands and the seal of said town, and the party of the second part has caused its corporate seal to be affixed, and these presents to be subscribed by its Secretary this 23d day of November, 1893.

[SEAL.]

THE BRONX GAS AND ELECTRIC COMPANY,

By FRED. KOCH, Secretary.

[SEAL.]

GEORGE J. DUNNIGAN, Town Clerk.

#### EXHIBIT "L."

By Trustee W. F. Johnston.

Resolved, That the contract and franchise proposed by the Wakefield Gas-light Company be and the same are adopted and the contract agreed to and the said franchise granted, and

Resolved, That the President be, and he is hereby authorized and directed to locate the said street lamps on the official map of this village and file the same with the Clerk of the village.

I hereby certify that foregoing is true and correct copy of resolution adopted the 17th day of May, 1895, at a special meeting of the Board of Trustees of the Village of Eastchester, N. Y., a quorum being present and all requisite notices having been sent out, and all the members of said Board duly notified as required by law.

THOS. C. HITCHCOCK, Village Clerk.

An ordinance providing for a supply of gas to the Village of Eastchester and its inhabitants, authorizing the Wakefield Gas-light Company to construct and maintain gas works, contracting with said Wakefield Gas-light Company for furnishing gas lamps and supplying the same with gas for the purposes of street lighting and use by its inhabitants.

Be it enacted by the Trustees of the Village of Eastchester as follows:

That the Wakefield Gas-light Company is chartered in said Village of Eastchester for the purposes hereinafter mentioned.

Sec. I. There is hereby granted to the Wakefield Gas-light Company, its successors or assigns, the privilege of operating, establishing and maintaining gas works within or near the said Village of Eastchester, according to the statute made and provided for the incorporation of lighting companies incorporated under the laws of the year 1870, and the several acts passed amendatory thereof, and supplemental thereto, and for supplying the said Village of Eastchester, New York, and the inhabitants of the adjacent territory, and the right to use the streets, alleys, sidewalks and public grounds of the said Village of Eastchester, within the present and future corporate limits, for placing and taking up and repairing mains, lamps and other structures and devices for the supplying of gas.

Sec. II. All the mains used in the construction shall be tested at their place of manufacture before being laid and they shall be of suitable size to furnish an abundant supply of gas for present and future use.

The gas-lamps rented by said Village of Eastchester shall be of modern and approved style, and of 16 candle-power. All gas-lamps when in position and ready for use, shall be subject to the use of the Village of Eastchester, and their rents shall begin as hereinafter provided for, when said gas-lamps shall be in position and ready for use and the Clerk of the village shall have been duly notified in writing of such fact by the said grantee or its assigns.

Sec. III. The said grantee or its assigns shall commence the construction of said gas-works within three months after the signing and execution of this contract, and shall have said works in working order within one year from date of same, under penalty of the forfeiture of this franchise, provided only that any delay caused by injunction or order of any court or any unavoidable accident or delay in getting right-of-way or land necessary or malicious interference, shall not be counted therein, and shall not be in any manner considered to work a forfeiture hereof on any part thereof.

Sec. IV. There shall be no unreasonable or unnecessary obstruction of the streets, alleys, sidewalks or public grounds of said Village of Eastchester by the said grantee or its assigns in constructing said work, and during said construction the Street Commissioner of said village shall pass upon the replacing of the streets, and in placing, taking up or repairing any mains, gas-lamps, structures or devices requisite for the service of gas, the said grantee or its assigns, after using said streets, alleys, sidewalks or public places, shall restore them within a reasonable time, as nearly as practicable, to their former condition under the supervision and to the satisfaction of the Street Commissioner.

Sec. V. If the Village of Eastchester should change the surface or established grades of any street, avenue, alley or public place in which the said grantee or its assigns shall have laid a pipeline, and if the said grantee or its assigns shall have to relay said pipe-lines on account of such change of grade, then the Village of Eastchester shall reimburse said grantee or its assigns the actual expense incurred by reason of such change of grade.

Sec. VI. There shall be laid gas-mains within said village, on which mains shall be located gas-lamps, as follows, to the number of sixty (60).

The Village of Eastchester may from time to time order additional gas-mains laid, but should they do so, they shall rent one additional gas-lamp for each and every 300 feet of mains so ordered extended, and shall not order extended less than 300 feet of pipe on any one street, avenue, alley or public place.

Sec. VII. In consideration of the benefits derived from and by the said Village of Eastchester and its inhabitants from the construction and maintenance and operation of said gas-works and in the further consideration of the gas supply, hereby secure for public and private uses, and as in the inducement to said grantee or assigns to accept the provisions of this ordinance and contract and enter upon the construction of said gas works, the said Village of Eastchester hereby rents of the said grantee or assigns for the uses hereinafter stated said gas-lamps of the character above described or so many gas-lamps as the said Village of Eastchester may have the power to order to assess and collect and assess taxes for and during the term of five years from the date of the acceptance of this franchise by said grantee or assigns, and if voted hereafter pursuant to law this gas-lamp contract shall be for as many years as may be voted according to law subject to renewal or such other arrangements as may be made, and the said Wakefield Gas-light Company shall locate the said gas-lamps hereby rented at such points on the lines of said mains as the Board of Trustees of the Village of Eastchester may direct. And agrees to pay rent for each of said lamps the sum of \$21 per annum each per year, not exceeding 150 lamps, and for every lamp in excess of 150 lamps and not exceeding 250 lamps the sum of \$20 per lamp, and for each lamp in excess of 250 lamps and not exceeding 350 lamps, the sum of \$19 for each lamp, and for any additional gas-lamp it may hereafter locate, the sums hereinbefore provided, all of which sums shall be paid by the Village of Eastchester to the Trustees as hereinbefore mentioned or said grantee or assigns, beginning from the dates when the rental of any of said gas-lamps shall begin as hereinbefore provided for in monthly installments on the first day of each month each and every year.

Sec. VIII. The grantee or its assigns shall from sunset to sunrise constantly each day in the year during the term of this contract light and keep lit and in good working order all lamps rented by the said Village of Eastchester, and if at any time any lamp is found not lit or in good working order as required by this contract the President of the village shall immediately notify the grantee or its assigns in writing of said defective lamp or lamps, and if the necessary repairs to said lamp or lamps are not made, and the lamp or lamps relit within twenty-four hours after the receipt of said notice in writing by the said grantee or its assigns, the said Village shall be entitled to deduct from said lamp rentals the sum of one dollar per night for each and every lamp not lit and in working order according to this contract within twenty-four hours after the receipt of said notice, provided that the total amount to be deducted shall not exceed the yearly rental of such lamp or lamps and any amount so deducted shall be in lieu and full of all damages in the premises.

Sec. IX. That said grantees or its assigns shall make all repairs to mains, pipes and connections within forty-eight hours after receipt of notice in writing, due allowance to be made for weather, and shall provide a sufficient number of drips necessary to drain the water off its mains, pipes and connections.

Sec. X. The trustees of said Village of Eastchester shall raise the funds necessary to pay the aforesaid lamp rentals by making and collecting assessments as provided and authorized by law.

Sec. XI. The Village of Eastchester shall adopt and enforce ordinances to protect the property of the grantee or its assigns within said village, and the said grantee or its assigns in the free and unmolested exercise of this franchise and against fraud or imposition and against injury to its property, and the said grantee or its assigns may make and enforce as part of the conditions upon which they supply gas to consumers, all needful regulations not inconsistent with the law.

Sec. XII. The said grantees or its assigns shall establish within the said Village of Eastchester at least three districts, each of which may be shut off at any time without discontinuing the supply of gas to the other districts, and a map of each district showing the location of mains, pipes, lamps and connections, shall be filed with the Clerk of the Village of Eastchester within thirty days after the completion of the gas system in said village.

Sec. XIII. The said grantee or its assigns shall permit the said Village of Eastchester to place on each street lamp the usual street signs indicating to the traveling public the name of the street or streets upon which each lamp is located.

Sec. XIV. Any change ordered in location of any lamp or lamps by the Board of Trustees of said Village of Eastchester on the line of main shall be made by the grantee or its assigns without charges, but the said Village of Eastchester shall furnish free transportation for each of said lamps.

Sec. XV. All extra lamps ordered in addition to those provided for in this contract shall be placed in position within three months from the date of notice to the grantee or its assigns, and the work necessary for the placing of the same in position shall commence within thirty days after the receipt of said notice by the grantee or its assigns.

Sec. XVI. That said grantee or its assigns shall furnish light of the standard illuminating power, uninterrupted, not to be shut off at night except in case of necessary repairs or other cases of necessity. That all openings of the streets, avenues, roads or highways or public places under this contract for construction or repairs shall be made and done at reasonable times and hours and with as little obstruction to travel as may be necessary, and shall be without delay completed, and the streets, roads and highways, avenues and public places shall within ten days be (and weather permitting) restored to their former condition, and that no nuisance whatever will be allowed or permitted in connection with or growing out of the franchise hereby granted.

Sec. XVII. The price for gas per 1,000 feet to be supplied by the grantees or its assigns to the private consumers in said Village of Eastchester under this franchise shall be as follows: \$2 for each 1,000 feet of gas until such time as the number of feet of gas supplied by the Wakefield Gas-light Company to all of its consumers in said village shall average for three months the total number of 1,000,000 feet of gas monthly, when the price shall be \$1.80 for each 1,000 feet and shall remain at that price until the number of feet of gas used monthly shall average for three months 1,500,000 feet when the price for each one thousand feet shall be \$1.60, and the basis of the estimate for the number of feet of gas supplied monthly to private consumers shall be on the books of the company containing the original returns of the employees of said Wakefield Gas-light Company taking the monthly register of the meter or meters of each private consumer a discount of 10 per cent. shall be allowed by the Wakefield Gas-light Company on the aforesaid prices of gas furnished by said company to each and every private consumer using 5,000 feet or more of gas monthly.

Sec. XVIII. In the event that the Wakefield Gas-light Company or its assigns shall issue mortgage bonds secured by mortgage or deed of trust upon the said gas works, constructed or to be constructed together with its lands, receivers, machinery, pipe, outlet, rights, privileges, franchise and contracts, and the lamp rentals payable hereunder and contracted for by said Village of Eastchester as they mature from time to time, shall from time to time be paid by the said village to the trustee or trustees of such bond or bonds or mortgage upon notification in writing to the President of the village, by the trustee or trustees of such bond or bonds or mortgage, are earned by the grantee or assigns, and are payable by the said village and the Clerk of said Village of Eastchester, and the president thereof is hereby authorized and instructed to sign a certificate on the back of said bond to that effect, and to affix the seal of said Village of Eastchester to such certificate, and all payments so made to such trustee or trustees shall be made exclusively to pay interest upon such bonds so long as the same remain due or unpaid and payable.

Sec. XIX. The contract of rental of gas-lamps embodied in this ordinance, act and resolution, shall become binding upon the Village of Eastchester in case that the grantee or its assigns shall before 6 o'clock p. m., May 18, 1895, file with the village clerk its written acceptance of the terms, conditions and obligations of this act, ordinance and contract, and within ten days file a bond of \$2,000 for the performance of the conditions herein contained and upon such acceptance, this act and ordinance shall constitute the contract, and shall be the measure of the rights and liabilities of the said Village of Eastchester and of the said Wakefield Gas-light Company or its assigns.

Witness the execution and adoption hereof by the respective parties to this contract and franchise.

THE VILLAGE OF EASTCHESTER, NATHAN JOHNSTON, President.

LAWRENCE B. HOLLER, W. F. JOHNSTON, JOHN S. WILLIS, Trustees.

Witness the acceptance of the foregoing franchise and contract made and filed and executed by said Wakefield Gas-light Company.

WILLIAM P. McCARTHY, Secretary of Wakefield Gas-light Company.

I hereby certify that the foregoing is a true and correct copy of the Ordinance Contract and Franchise adopted the 17th day of May, 1895, at a special meeting of the Board of Trustees of the Village of Eastchester, N. Y., a quorum being present, and all requisite notices having been sent out and posted as required by law.

THOS. C. HITCHCOCK, Village Clerk.

#### EXHIBIT "M."

This Agreement, made and entered into this 4th day of June, 1895, between the Village of Williamsbridge, a municipal corporation created and existing under the General Act for the Incorporation of Villages, party of the first part, and the Williamsbridge Gas and Electric-light Company, of Williamsbridge, New York, a corporation duly incorporated under the Laws of the State of New York, party of the second part; Witnesseth:

Whereas, The party of the second part has submitted to and filed with the party of the first part its certain proposals in writing, to lay gas-mains in the streets of said Village of Williamsbridge and to supply illuminating gas to the inhabitants of the said village and to erect, light, extinguish and maintain street-lamps for the party of the first part, under certain specifications, terms and conditions, which are set forth at length and in detail in said proposals of the party of the second part, dated the 20th day of May, 1895, and filed with the party of the first part on or about the 20th day of May, 1895, and of which a copy is hereto annexed; and

Whereas, The party of the first part, and by and through its Board of Trustees, after due consideration, deem said proposals to be the most advantageous to the said village and that they best subserve the public welfare and the interests of the said village and the inhabitants thereof;

Now, therefore, It is hereby mutually stipulated, covenanted and agreed by and between the parties hereto, as follows:

That the party of the first part hereby accepts the said proposals of the party of the second part, dated the 20th day of May, 1895, and filed with the party of the first part on or about the 20th day of May, 1895, except as to the following words therein which it is hereby agreed between the parties hereto shall be deemed to be canceled off and from the said annexed proposals and eliminated therefrom, viz.: "The Company, however, will agree to supply all lamps used by the Village other than those it may furnish hereafter with gas, with oil such as is now in use for lighting purposes by the Village, at a price per lamp, not exceeding that now paid by the Village."

It being also hereby understood and agreed by and between the parties hereto, anything to the contrary contained in this contract of said annexed proposals in anywise notwithstanding, that unless, by special agreement between the parties hereto, the party of the second part shall not be required to lay its mains in any public street or avenue in said village or part thereof that is not built up to the extent of at least one house or occupied building for every 200 running feet, but said party of the second part shall be required to extend and lay its mains into every such street or avenue or part thereof, as aforesaid.

That the party of the second part, for and in consideration of the franchise and permission hereinabove granted to it by the party of the first part, enabling it to supply illuminating gas to the said village, and to private consumers therein, and for and in consideration of the moneys to be hereby paid by the party of the first part to it, for street lamps, as hereinabove set forth; hereby agrees to extend, construct, erect, build, operate and maintain a proper and adequate plant and appliances and appurtenances, in, on and along all the streets, avenues, highways and public places in the said Village of Williamsbridge, for the purpose of supplying illuminating gas to the party of the first part, and to the inhabitants of the said village, and to fully complete and operate the same on or before the 1st day of January, 1896, and the party of the first part hereby grants a franchise and its permission and consent to the party of the second part, to extend, construct, erect, build, operate and maintain such plant, appliances and appurtenances in, on and along all the streets, avenues, highways and public places in said village as aforesaid.

That the party of the first part hereby rents from the party of the second part, 250 public street gas-lamps, connected with its mains, for a term of five years, commencing on the 1st day of January, 1896, or at such time prior thereto as said lamps shall be ready for use, in blocks of 50, at the agreed price of \$23 per year, for each of said lamps, payable monthly.

That the said proposals of the party of the second part, as to the erection and equipment of said gas plant, and as to private consumption, and as to public lighting, and as to all the other matters which are set forth fully and at length therein, and of which proposals, a copy is hereto annexed, marked "Schedule A," shall be deemed to be a part of this instrument, as fully, to all intents and purposes, as if the said annexed proposals, were set forth fully and at length herein,

and shall be deemed to be a necessary prerequisite and condition of this franchise and contract, as to each and every specification, matter, condition and term, fully and at length therein expressed.

That this franchise and contract shall not be operative, until all the said specifications, matters, terms and conditions in said annexed proposals specified, and which are properly preliminary to the taking effect of this franchise and contract, shall have been fully and in good faith performed and complied with, by the party of the second part, to the satisfaction of the party of the first part.

That the two several bonds specified for in said annexed proposals, shall be executed and filed with the party of the first part, on or before the 7th day of June, 1895, and that this franchise and contract shall not be or become of any force or effect whatever, unless such bonds shall have been filed as aforesaid, and duly approved by the Board of Trustees of the party of the first part.

That the provisions of this instrument shall apply to and bind the successors, legal representatives and assigns of the parties hereto.

In witness whereof, the parties hereto, have caused these presents to be subscribed by their respective Presidents, and attested by the Clerk of the party of the first part, and their respective corporate seals to be thereunto affixed, on the day and year first above written, in duplicate.

In the presence of, as to Village of Williamsbridge and Williamsbridge Gas and Electric-light Company.

[VILLAGE SEAL.]

(Signed) ALEX. U. MAYER.

THE VILLAGE OF WILLIAMSBRIDGE,

By (Signed) JOHN DAVIDSON, President.

Attest: (Signed) ROBERT WALLACE, Village Clerk.

THE WILLIAMSBRIDGE GAS AND ELECTRIC-LIGHT COMPANY,

By JOSEPH S. TRACY, President.

State of New York, County of Westchester, ss.:

On this 4th day of June, 1895, before me, the subscriber, personally came John Davidson, to me known to be the President, and Robert Wallace, to me known to be the Clerk, of the Village of Williamsbridge, a municipal corporation, mentioned and described in the foregoing instrument; and the said John Davidson and Robert Wallace being by me first duly and severally sworn, did, each for himself, severally say and acknowledge to me that the said John Davidson is the President, and that the said Robert Wallace is the Clerk, of the Village of Williamsbridge, a municipal corporation, and that the seal affixed to the foregoing instrument is the corporate seal thereof, and that they severally subscribed and executed the foregoing instrument as such officers thereof, respectively, and affixed the said corporate seal thereto, by virtue of a resolution duly passed by the Board of Trustees of the said Village of Williamsbridge.

(Signed) ALEX. U. MAYER, Notary Public, Westchester County, N. Y.

(Acknowledgment by Joseph S. Tracy as President of the Company.)

PROPOSALS—SCHEDULE A TO CONTRACT.

To the Board of Trustees of the Village of Williamsbridge, N. Y.:

The Williamsbridge Gas and Electric-light Company, incorporated under the laws of the State of New York, being chapter 566 of the Laws of 1890, entitled, "An Act in relation to transportation corporations, and the several Acts amendatory thereof and supplementary thereto," hereby proposes and agrees to supply illuminating gas to the Village of Williamsbridge, in the County of Westchester, N. Y., a municipal corporation, incorporated under the laws of the State of New York, being chapter 291 of the Laws of 1870, entitled, "An Act for the incorporation of villages," and the several Acts amendatory thereof and supplementary thereto, and to the inhabitants of said village, and to construct, erect, build, operate and maintain a proper and adequate plant and appliances and appurtenances for such purposes in the said village, upon the terms and conditions following:

1. System—The said company will extend and lay its gas-mains, pipes and conductors into each and every open and public avenue, street and square in said village, and into such as may hereafter be opened, and as may be directed by the Board of Trustees, in such cases, from time to time; provided, however, that the said company shall not be required now or hereafter to lay its mains unless by special agreement between it and the Board of Trustees, through any street or avenue which is not built up to a reasonable extent with residences, or public and private buildings, the company will however agree to supply all lamps used by the village other than those it may furnish hereafter with gas, with oil, such as is now in use for lighting purposes by the village, at a price per lamp not exceeding that now paid by the village.

2. Public Lamps—The said village shall rent from the said company at least 250 street lamps for a term of five years, commencing on the day when such lamps shall be in working order and declared and certified so to be by the Board of Trustees of said village, provided said Board shall so declare and certify within ten days after notification by said company.

3. Renewal of Contract—The said village shall have the right to renew any contract with the said company for a further term of five years, or any part of five years, upon the terms of the then existing contract, and before the time of the expiration thereof.

4. Location of Lamps—Any street or public lamps contracted for by said village shall be located by the Board of Trustees of said village, and the locations thereof certified to the said company by said village.

5. Lamps Distance Apart—Any and all street and public lamps for any street or avenue, or in any district fixed upon by said village, for such purposes, shall not be ordered further apart than 250 feet.

6. When to be Kept Lit—Any and all street lamps contracted for by said village with said company shall be kept burning from dusk to dawn on each and every night during the continuance of the term of the contracts thereof.

7. Rates for Public Lamps—The said company agrees to furnish, erect, maintain, clean, light, extinguish and keep in good order and condition any and all street and public lamps ordered from it by the said village for a term not less than five years, at the following rates:

For not less than 250 lamps the sum of \$23 each per year; for each lamp in excess of 500 and not exceeding 750 the sum of \$20 each per year; for each lamp in excess of and not exceeding the sum of \$ each per year and for each lamp in excess of the sum of \$ each per year.

7. Lamp Rentals—The rental of said lamps to be due and payable to said company on the expiration of each month in each year during the continuance of the contract thereof.

8. Rates to Private Consumers—The said company agrees to furnish illuminating gas to the inhabitants of the said village at the rate of \$1.50 per thousand cubic feet until the total consumption thereof by private consumers shall reach 200,000 cubic feet per day, when the rate shall be reduced to \$1.25 per thousand cubic feet until the total consumption thereof by private consumers shall have increased to cubic feet per month, when the rate shall be reduced to \$ per thousand cubic feet, or to a rate as low as illuminating gas is furnished by any gas company to the inhabitants of the north side of the City of New York, if such rates shall be lower than the rates last above mentioned.

9. Quality of Gas—The illuminating gas to be furnished hereunder to said village and its inhabitants shall have an illuminating power of not less than 20 candles when tested at a distance of not less than one mile on the pipes of said company, from the place of manufacture and as regards purity, the gas shall be free within limits not injurious to public health, from ammonia, sulphureted hydrogen and other sulphur and noxious compounds.

10. Burners—All the burners to be used for the street or public lamps aforesaid, shall be of the latest improved patents, and shall be of a capacity to burn three cubic feet of gas per hour under a pressure of one inch, and each of said burners shall burn three cubic feet of gas per hour, during all the time that said lamps are required to be kept lighted. The burners are to be kept clean at all times, so as to allow the free and unobstructed flow of the gas and to permit the full and normal flame, and said burners shall be renewed as often as may be necessary, in order to fulfill the requirements aforesaid.

The said village shall have the right to require that burners of a greater capacity than aforesaid shall be provided for the public lamps aforesaid, or any of them, for which said company shall be entitled to an increased compensation proportioned only to the increased amount of gas consumed by each of the said burners over and above three cubic feet per hour.

11. Cleaning—All the lamps and glass street signs are to be kept in such a cleanly condition that not more than ten per cent. of the light of the lamp shall be absorbed or obstructed by the uncolored glass, and they shall be cleaned at least three times in each week, and at each of these cleanings all the side, top and bottom glass shall be thoroughly cleaned both on the inside and outside of the lantern, and all dust and dirt shall be brushed from the frames.

12. Repairing and Glazing—The lamps, including the bottoms, are to be repaired and reglazed within twenty-four hours after the said village shall notify said company of such breakage; stained glass of a ruby color shall be placed in the tops of the lamps nearest to the several fire-alarm signal boxes.

13. Repairing Lamp-posts—Whenever said village shall require that any lamp-post shall be reset or straightened, or that any columns be reloaded, or otherwise repaired or set in order, the same shall be done within twenty-four hours after said village shall notify said company of such requirements.

14. Painting—The lamp-posts, lamp-irons, brackets, and lanterns are to have one heavy coat of best paint ground in oil, as follows: The lamp-heads, cross-heads and stand-pipe, of bracket-lamps to have one coat of dark green paint, blue shade, square lamp-irons, brackets and outside of lanterns to have one coat of green paint, pea-green shade, the design being to make a strong contrast between lamp-posts and lanterns. The tinwork inside of lanterns to be painted in all its parts with one heavy coat of best white lead paint. All the materials shall be of the best quality and prepared so as to prevent a gloss finish; the glass shall not be smeared or daubed with paint.

15. Replacing Parts—All lanterns, cocks, cross-heads, lamp-irons, tubes and burners which may become worn out or useless, shall be immediately replaced by said company.

16. Street Signs—Any glass street signs to be furnished by said village shall be placed and retained in their proper places on any of said street lamps designated by said village and kept in a cleanly condition by said company.

17. Connections, Opening Streets, etc.—Said company shall have the right to lay mains, pipes and conductors in the public avenues and streets of said village, and make connections with the public lamps and with the houses adjoining said streets and avenues for private consumers, upon giving forty-eight hours' notice in each case to the Street Commissioner of said village of its intention to break up or open any street, avenue or public place or part thereof, or to remove any part of the pavement thereof for the purpose of laying or repairing its mains, pipes and conductors. And said company shall, whenever it shall break up or open any street, avenue or public place or part thereof, replace the earth which may be removed in so doing, within twenty-four hours after such work shall be completed, the earth to be thoroughly tamped as the same is thrown into the trench or excavation, and replace the pavement and repair and pave the same, and restore the surface of any such street or avenue and the pavement thereof to at least as good a condition as it was in before such opening was made, and within such a reasonable time and in such a reasonable manner as said village may direct, and shall readjust, fill and finish the same as long and often as may be necessary on account of the settling of the earth or pavement caused by said openings. All such work shall be done under the supervision and to the approval of the Street Commissioner of said village.

18. Indemnity—And said company agrees that it will indemnify and save harmless the said village, its officers, agents and servants, and each of them, against and from all claims, suits and actions of every kind and description whatever brought against it or any of them, and against and from all damages and costs to which it or any of them may be put by reason of injury to the person or property of another resulting from negligence or carelessness in the conduct of any of the operations of said company in said village, and said company hereby agrees that so much of the moneys as may become due to it under any contract entered into by it with said village as shall or may be deemed necessary by the Board of Trustees thereof, shall and may be retained by said village, unless the company shall give a sufficient and proper bond of indemnity to cover any specific case, until all such claims, suits or actions shall have been settled or disposed of, and evidence to that effect furnished to said Board of Trustees to its satisfaction.

19. Liability for Claims, Annulment of Contract—And said company further agrees that in case it shall fail or neglect to keep and observe the terms and conditions herein contained according to the true intent and meaning of this instrument, or any of them, the said village may cause the same to be done by other parties and to deduct the expense thereof from the moneys which may become due to said company under any contract entered into by it with said village, and to hold said company and its sureties therefor, or the said village may at its option, declare such contract or any of them annulled or vacated, and thereupon any such contract shall ipso facto become and be from thenceforth null and void.

20. Estoppel—Said village shall not be precluded or estopped by any return or certificate made or given by any of its officers, agents or servants from at any time showing any deficiency or imperfection on the part of said company of the terms and conditions herein contained, or in the performance thereof.

21. Capacity of Mains—All the mains to be laid hereunder shall be of a suitable size to furnish an adequate volume and free flow of gas for present and future use.

22. Time for Completion of Works—Said company shall bona fide commence the construction of such system of mains, pipes and conductors within sixty days from the time of the execution and delivery of the contract or the passage of the ordinances or resolutions of the Board of Trustees of said village authorizing the same, and shall prosecute such work without interruption, and shall finish and complete the same and have its works in said village in good working order for public and private use, within such a reasonable time hereafter as may be agreed upon and stipulated in the contract therefor.

23. Obstruction of Streets—There shall be no unreasonable or unnecessary obstruction of any of the streets, avenues, sidewalks or public places in said village by said company in the prosecution of its said works.

24. Inspector—All of said works and operations connected with the introduction and laying of said company's mains, pipes and conductors in said village, until it shall have completed the same according to the terms of the contract.

25. Change of Grade—In case after the mains, pipes or conductors of said company shall have been laid by said company in conformity with the terms and conditions herein contained in any of said streets or avenues, and if thereafter the grades of any of said streets or avenues shall be altered to such an extent as to necessitate the relaying of such mains, pipes or conductors or any part of them, the same shall be agreed upon by said village and said company and the reasonable and actual cost thereof shall be paid by the said village to said company.

26. Imperfect Lamps—If any of the public lamps shall not be in good order under the terms and conditions herein contained, and the said company shall not have repaired or mended the same within twenty-four hours after the mailing of written notice thereof by said village or an officer thereof, the said village shall be entitled to deduct or retain the sum of \$1 per lamp for each night thereafter that such lamp shall continue so impaired from and out of any moneys then due or which may grow due to said company.

27. Rules and Ordinances—Said village shall adopt proper and necessary rules and ordinances to protect the property of said company therein in the just, free and unmolested exercise of its rights under its contracts and franchises from said village and against fraud, imposition or injury to property.

28. Districts—Said company shall establish within the limits of said village at least five districts, each of which may be shut off at any time without discontinuing the supply of gas to the other districts.

29. Gas not to be shut off—The gas shall not be shut off in any part of said village, especially in the night-time, except in case of urgent necessity, and then only for the shortest practicable time within which the necessary repairs or alterations can be made.

30. Examination of Books—The basis for the calculation and ascertainment of the quantity of gas furnished by said company to the private consumers of said village shall be the books of said company containing the original entries of the employees of said company, taking the periodic register of the meter of each private consumer, and said company shall fully afford all needful assistance and facilities to any officer of said village making such examination.

31. Quality of Gas and Plant (Standard)—The said company further agrees that the illuminating gas to be furnished by it to the said village and the inhabitants thereof and its plant to be placed in said village, including its mains, pipes, conductors, shut-offs, stand-pipes, columns, lamp-posts, lanterns, burners and everything in any manner appurtenant or belonging thereto, as well as the manner of laying, building, constructing, erecting and finishing the same, shall at least conform as to quality, quantity, workmanship and approved designs, form and conformation to the best that is built, furnished or supplied by any gas company for and in the territory of the north side of the City of New York, which is hereby made the standard for that purpose, anything herein contained to the contrary in any wise notwithstanding.

32. Terms to Private Consumers—The said company further agrees that as to the terms upon which gas will be furnished by it to private consumers in said village when the total consumption for such purposes shall have reached thousand cubic feet per month, and at any time the cost of connections, piping, moneys deposited for security, discount for prompt payment, and as to the time allowed for payment of bills, after presentation, shall at least be as favorable to the private consumers in said village as those afforded in like cases by any gas company to private consumers in like cases in the north side of the City of New York.

33. Bond for Performance of Contract—Said company further agrees that it will give and furnish to said village a due and adequate bond in the penalty of \$10,000, with at least two good and sufficient sureties, and to the acceptance of said village, conditioned for the faithful performance and carrying out of, according to their true meaning and intent, of each and every of the terms and conditions herein contained during the term of the continuance of any contract entered into by it with said village and for six months thereafter.

34. Bond to Secure Construction of Plant—Said company further agrees, if so required by said village, in addition thereto, to give and furnish to said village a due and adequate bond in the sum of \$5,000, as liquidated damages against any default on its part in the matter of the construction and finishing of its works and plant in said village within the time limited therefor, said bond to be with at least two good and sufficient sureties to the acceptance of said village.

35. Time, Extension of—It is provided that the time consumed by any delays occasioned by the injunction or order of any court or any unavoidable accident or delay in obtaining land or right of way, or malicious interference, shall not be counted or deemed as part of the time limited to said company for the carrying out or performance of any of the terms or conditions herein contained, provided such delay shall not be caused by the collusion of said company or any of its officers, agents or attorneys directly or indirectly.

36. No Exclusive Rights—It is hereby agreed and provided that nothing herein contained shall be construed or deemed as granting to said company any sole or exclusive right or privilege or as preventing the said village from granting like rights and privileges to any other persons or companies.

37. To Apply to Representatives of Parties, etc.—This instrument, and the terms and conditions hereof and any contracts entered into or franchises granted hereunder shall apply to and bind the successors, legal representatives and assigns, of said company and of said village.

In witness whereof, The said company has caused this instrument to be subscribed by its President, attested by its Secretary and its corporate seal to be thereunto affixed at the City of New York this 20th day of May, 1895.

THE WILLIAMSBRIDGE GAS AND ELECTRIC LIGHT COMPANY.  
By FRANKLYN PADDOCK, Attorney.

Attest:

President.  
Secretary.

DOCUMENT "H"—REPORT OF THE SUPERINTENDENT OF REPAIRS AND SUPPLIES.

BUREAU OF REPAIRS AND SUPPLIES, NEW YORK, January 7, 1896. Hon. C. H. T. COLLIS, Commissioner of Public Works:

DEAR SIR—In accordance with your instructions I have the honor to present the following report of the transactions of the Bureau for the quarter ending December 31, 1895. Among the principal items of work done by the Bureau, I refer to the following which I respectfully submit for your consideration:

CRIMINAL COURT-HOUSE.

The Elevators—New main lifting cables were furnished and put in place on Nos. 3 and 4 Elevators; the pumps have been repaired and readjusted; the cables on 3 elevators have been shortened and readjusted, and arrangements made with the Otis Elevator Company to have the elevators inspected at least every two months and a written report of their condition sent to the Superintendent of Repairs and Supplies; and also to make such small repairs or adjustments that may be practicable, to be done by the Inspector at time of inspection. No. 3 Elevator was repacked complete and the lever rope on same renewed where it was worn at the bottom. The centre gasket in cylinder of No. 1 Elevator was renewed. The lever ropes on bottom shelves of Elevators Nos. 3 and 4 were renewed and the winch sheave beam at bottom of Elevator No. 6 was secured. 36 cast-iron boiler grate bars were furnished and put in. 2 barrels of cylinder and 2 barrels of machinery oil were supplied for use of the engineers of the building. Weather strips were applied to the windows where required. The arrangements made for keeping the windows clean having proved satisfactory, the order for the next quarter has been renewed.

The Court of General Sessions was furnished with some law books. 3 silver-plated ice pitchers, 1 for Judge Allison, 1 for Judge Cowing, and 1 for Judge Fitzgerald, with tray and goblets, were furnished. Some law books were furnished to the Board of Coroners.

About 230 feet of 1½-inch and 6-inch pipes were covered with two thicknesses of 1-inch hair felt, interlaid with tar and resin sized paper, with caucas neatly sewed on. All the above work was completed in good manner and guaranteed frost proof.

A contract was made with the E. Howard Clock and Watch Company for maintaining electrical time service in the building. This work is completed and giving entire satisfaction.

The contract for new furniture and making alterations to the same has been completed, and the material and work found satisfactory.

The contract for safes and burglar-proof file-case and the electrical system is being proceeded with.

General items, such as carpenter and joiner work, iron work, plastering, hardware and other work has been completed.

BROWN-STONE BUILDING.

This building, which was in a dilapidated condition and untenable heretofore, is to-day in first-class condition. A new steam plant was put in, and radiators were placed throughout the building, and a brick smoke-shaft 80 feet high, was built on the outside of the building, as the old flue was found inadequate for the extra boiler. New tiling was also laid in all the floors throughout the building. The plumbing has been thoroughly reconstructed and overhauled under the supervision of a Sanitary Inspector of the Board of Health.

The Street Cleaning Department, which formerly occupied offices in the New Criminal Court Building, has been moved to the above building, and extensive repairs have been made to the same. Specifications for the equipment of the Street Cleaning Department, connecting its several offices together in the buildings Nos. 26 and 32 Chambers street with a system of intercommunicating telephones was made. The above system has been put in and has given entire satisfaction, the contractor guaranteeing to keep the same in repair for one year.

About 500 yards of best linoleum were laid in the several offices in the new Sheriff's offices. Extensive repairs have also been made for the new quarters of the Sheriff's offices, etc., which will move in the above building some time in January, 1896. Specifications were made for the construction of metallic document files, complete in cabinets, for use in the Sheriff's office, consisting of 10 cabinets, each to contain 7 rows of 7, total of 49 compressing document files, each file to measure 5 inches wide, 10½ inches high and 14 inches deep from centre. These files to have a compressing device whereby papers are firmly locked in the files; each and every cabinet to have a combination lock, whereby all the files are securely locked in the cabinet by one key. The above contract has been awarded and the work is being proceeded with, and the files will be in position in a few days. The three old furnaces in the building were repaired and cleaned, and put in first-class condition, ready for use. A new storm entrance was put up on the south side of the building by the carpenters in the employ of this Bureau, and the same given three coats of best Atlantic paint, and a new tin roof put on and painted with metallic paint. 497 yards of best body Brussels carpet were laid with best paper lining in the new Sheriff's offices. New furniture was also furnished to the new Sheriff's office. 5 new wash-out closets, with McClellan anti-siphon trap, were put in and the old closets taken out. All the steam pipes in the building have been covered with asbestos, hair felt and canvas, etc., to prevent the pipes from frost. New double window shades (47 in number) have been put up in the Sheriff's offices. 2 new self-winding clocks were furnished for the use of the above offices. A plan and specifications have been prepared and a contract made for alterations in the main offices of the new Sheriff, and the extension of the desks to facilitate the work of the office. This work is under way and will be completed shortly.

Contracts and specifications were prepared for alterations and partitions, iron railings, paintings, etc., and for the furniture, carpets, etc., required for use of the Street Cleaning Department and new Sheriff's offices and First District Civil Court and offices. This work was given out to the lowest bidders and is now finished.

COUNTY COURT-HOUSE.

The following articles of furniture, etc., were supplied to the Surrogates' Court: Trial Term Room—2 flat top oak desks, 5 dozen cane bottom chairs, 1 arm-chair (for witness), 1 stenographer's table, 5 senatorial chairs (rotary), 1 rotary chair for stenographer, 1 small table for bench, 3 oak tables, 4 feet by 2 feet, 1 wardrobe for use of Court Clerk, 1 dozen bent-wood chairs, 1 book-case. Surrogates' Offices, Chief Clerk and Assistants—1 flat top desk, 5 feet by 3 feet (oak), 1 rotary cane-bottom chair (senatorial), 1 umbrella stand. Deputy Chief Clerk's Room—1 desk (flat top), 2 rotary chairs. Probate Department—1 desk (flat top). Administration Department—1 desk (flat top). Guardian Clerks' Department—1 roll top desk (large). Main Department—2 tables, 10 feet by 3 feet.

About 2,000 yards of Brussels carpet were taken up, cleaned and relaid with best paper lining, in the following courts and offices: Supreme Court—Parts I, II and III; Superior Court—Parts I, II, III and Special Term Room; Court of Common Pleas, Surrogates' Court and the Clerks' offices. Some law books were also furnished to the several courts.

All the wainscoting on the ground floor was varnished; the hardwood doors fronting on hall and all entrance doors were cleaned off and given two (2) coats of the best varnish; the other doors and trim were given two (2) coats of paint in parti colors.

Two (2) protective ventilators were put on the windows in the private office of the Surrogate. About 40 yards of 4-4 rubber matting was furnished to the Surrogates' Court.

A new storm-door was put on the south side of the building; a new tin roof was put on same and given 3 good coats of paint; 3 kegs of pristine were furnished to the Janitor of the building for cleaning purposes; repairs were made to the steam-fitting and plumbing from time to time as needed; 200 cast-iron leaves for the standard rolling grate-bars, including 8 main ends and key leaves were furnished for use of the engine room.

THE CITY HALL.

New storm-doors were put up at the south entrances of the building. This is something that was never there before and was very badly needed, inasmuch that it helps to keep the building clean, warm, free from draughts and is a matter of great saving in heating the building.

Some law books were furnished to the Mayor's office. The several court-rooms were repaired and painted. New carpets were laid in the several courts and offices.

Two Aldermanic flags and streamers were furnished to the Board of Aldermen; the 5 flagpoles painted 2 coats of lead paint and new halyards reeved on the same. 1 rocker was furnished for use of the Lady Attendant in the Governor's room.

The steam required for heating the building and running the steam-pump has been supplied from the New York Steam Company's main. Repairs have been made to the copper portion of the roof where needed. 1 new galvanized leader pipe has been put up and painted. The ceilings in the basement have been calcined and the plastering repaired. 1 new roll-top desk was furnished to the Chief Clerk in the City Court.

Two Smyrna desk rugs have been furnished for use of the Supervisor of the City Record and Chief Clerk.

Rubber threads and brass plates have also been furnished for the steps leading to the Clerk's office, Board of Aldermen.

Six table lamps were furnished and electric current was connected to supply the lamps for use of the Board of Canvassers, during the counting of the ballots.

The five (5) entrance doors on both sides of the southern front of the building were rubbed off and sand-papered, and the same given 2 coats of Atlantic lead paint and grained in imitation of antique oak and varnished. The iron gates to the same entrance were scraped off where rusted, and given two coats of best quality of bronze-green paint and one coat of Sparr varnish. 50 feet of 3/4-inch three-ply best garden hose, with couplings and hose pipe complete, was furnished for

use of the Janitor of the building. Repairs were made to the tiling in the building, as follows: Entrance to East Corridor, East Hall, West End of Hall Doorway, East Corridor, and new sills put in doorway, West Corridor. At basement stairs, the platform step was cut out where worn and new piece inserted, and a new half sill was put in doorway, westerly side of rotunda.

About 200 yards of best body Brussels carpet were furnished and laid in the Library and small room off Record room. One high-back revolving chair was furnished to Part II, City Court.

HALL OF RECORDS.

Repairs were made to the furnaces in the building, one new fire pot for Harvey furnace and all necessary smoke-pipes and elbows were furnished, the chimneys were cleaned, hot-air pipes, registers and smoke-pipes connected and put in first-class condition. 5 Wolff radiators were furnished to the building, with necessary tubing complete for heating purposes, and repairs were made to the glazing and plumbing-work.

NO. 31 CHAMBERS STREET.

A wire railing, 12 feet long, was put up in the Meter Department on the fourth floor and some alterations made to the standing desks.

Two speaking tubes, with flexible tubing to desks, were put up—one from the Water Purveyor's office in the basement to Room No. 19, top floor, and one from first floor, Bureau of Street Openings, to Room No. 19, top floor. A new Smyrna rug, 4 feet by 7 feet, was furnished for use of the Commissioner's office. One new washout closet, together with necessary flush tank, etc., was put in on the top floor of the building for use of the female employees in the building. New window shades have been put in Room 10. One "Trow's City Directory" was furnished for use of the Bureau of Lamps and Gas.

The following is a list of the yearly, quarterly and monthly requisitions made by the Bureau, and for which orders have been made: For the use of one set of telephone instruments to be placed in the residence of the Commissioner of Public Works for the year 1896. For the use of one telephone in each of the following places during the year 1896: Office of the Commissioner of Public Works, private office of the Commissioner of Public Works, office of the Department of Buildings, office of the Commissioners of Accounts, office of the Commissioner of Jurors, office of the Comptroller (private), office of the Comptroller (public), office of the City Chamberlain, office of City Paymaster, office of the Mayor (City Hall), office of the Recorder (Criminal Court Building), office of the Board of Assessors; office of the City Paymaster, burglar alarm, for 1896; Tax Collector's office, current to run electric fan for the year 1896; office of the County Clerk, office of the Board of Assessors, office of City Paymaster and No. 31 Chambers street.

For the cleaning, keeping clean and in repair and winding the clocks in the public buildings and offices in care of this Bureau, including the tower clocks in the City Hall and Third District Court-house, for the year 1896; for expressage of supplies, etc., from this Bureau to the several courts, offices and armories during the year 1896; for the repairs and alterations to the electric batteries, apparatus, call-bells and annunciators during the year 1896; for keeping in repair the batteries, wire of the burglar alarm connecting the office of the Finance Department with the Police Station in the City Hall for 1896; for keeping in repair the rapid safety filters in the Water Register's office and the office of the Receiver of Taxes for 1896; for small supplies, pine and hickory wood, repairs to stoves, etc., hardware supplies, small supplies of lumber, repairs to iron-work for quarter ending March 31. For repairs to office furniture, monthly; for repairs to plumbing in City Hall Park Buildings, monthly; for repairs to plumbing outside of City Hall Park Buildings, monthly; for repairs to glazing of public buildings, monthly; for a supply of ice for January.

The following requisitions were drawn on the supplies needed by the Bureau: For 30 dozen huck towels, for 18 gross of glycerine toilet soap, for 20 dozen ostrich feather dusters, No. 20, for 20 dozen ostrich feather dusters, No. 10, for 5 kips of chamois skins, for 50 pounds of sheep's wool sponges, for 1,500 feet of weather strips, assorted, and for other small supplies for use of cleaners in the several buildings.

In addition to the above, contracts and specifications were prepared for the following: For furnishing 5,000 tons of coal, for furnishing 500,000 pounds of ice and 145 pieces for water-coolers and for repairs to the 15 free floating baths.

2,000 feet of best quality rubber weather strips were furnished for use of the different buildings in care of the Bureau of Repairs and Supplies, and the same put up as required by the carpenters in the employ of the Bureau.

A new roll-top desk was furnished to the Bureau of Incumbrances, and a new typewriting machine with stand and cover.

THE STEWART BUILDING.

One oak wardrobe was furnished for use of the Commissioner of Jurors' office. A desk rug was furnished for use of the Deputy Comptroller. Repairs were made to the meter and electric fan motor and electric lights in the Finance Department. One set of telephone instruments was placed in the City Paymaster's office and First Auditors' office, Finance Department. The carpets in the Comptroller's office, waiting room, and the office adjoining, were taken up, cleaned and relaid. Two tables were furnished to the office of the Commissioner of Accounts.

THE MARKETS.

Washington Market—Repairs have been made to the flooring in front of Stands Nos. 171, 237, 253 and 306, and repairs were made to the panels inclosing shed over sidewalk in Fulton street. The panels to Stands Nos. 412, 375, 395, 403 and 404 were boarded up with 1½-inch tongued and grooved spruce boards. Five new panels were put in fence around the above market, and given three coats of paint to match the old work. The roof over Stands Nos. 78, 92, 100, 108, 148, 158, 199, 206, 334, 354, 387, 399 and 309½ were repaired, and about 220 sheets of tin put in to replace damaged tin removed, and the same painted two coats of metallic paint.

West Washington Market—Repairs have been made to the steel rolling shutters at the following numbers and streets of the above market: No. 11 West street, Nos. 1, 27, 44 and 48 Thompson avenue, Nos. 33, 4, 51, 54 and 59 Loew avenue, Nos. 3, 34 and 38 Hewitt avenue, No. 17 Thirteenth avenue, Nos. 22, 32 and 64 Bloomfield street, Nos. 21, 33, 49, 51, 57 and 63 Gansevoort street. A new roof was put on No. 26 West street, and repairs were made to roof over Stands Nos. 27, 29 and 35 Loew avenue, Nos. 19, 23, 21, 25, 30 and 32 Hewitt avenue, Nos. 18, 22, 50 and 58 Bloomfield street, Nos. 4 and 14 Grace avenue and No. 22 Thompson avenue. The leaders on Nos. 31, 32 and 63 Thompson avenue, No. 5 Lawton avenue, No. 34 Bloomfield street, No. 34 Grace avenue, No. 33 Gansevoort street and Nos. 17, 31, 32, 50 and 63 Loew avenue were repaired, and about 250 feet of 4-inch galvanized iron leader pipe was put up. New cast-iron leader pipes were put in at the following: No. 34 Bloomfield street, No. 47 Grace avenue, and Nos. 32 and 50 Loew avenue. Repairs were made to ceilings over Stands Nos. 23 and 25 Hewitt avenue, over Stands Nos. 7 and 9 Lawton avenue and over Stand No. 43 Grace avenue. The roofs over the following Stands, Nos. 18, 19, 21, 28, 61 and 63 Thompson avenue, No. 18 West street, Nos. 5 and 12 Thirteenth avenue, Nos. 34, 36, 38, 40, 54, 56 and 58 Bloomfield street, Nos. 57 and 59 Lawton avenue, Nos. 53, 55 and 57 Loew avenue, were repaired; about 680 sheets of damaged tin cut out and replaced with new tin, painted both sides.

Fulton Market—The flooring in front of Mr. Ottman's Stand was repaired; also in gangway next to Mr. Dorlan's stand, size of space 6 feet by 20 feet. The old floor was taken up and filled in with furnace ashes to level of sleepers, and new sleepers put in 20 inches from centre, and a narrow yellow pine floor laid. Repairs were made to roof over Stands Nos. 9, 11, 13, 15 and 215, and to the gravel roof over Stand No. 99. The leader pipe repaired and 24 feet of gutter was put in and about 40 sheets of damaged tin cut out and replaced with stamped tin, painted both sides. Repairs were also made to the hipped skylight over Stand No. 114, and the roof painted 2 coats of metallic paint, ground in linseed oil. Repairs were also made to roofs over Stands Nos. 12, 14, 16, 139, and 218. About 30 feet of galvanized corrugated sheet-iron was put in, and the glass repaired where broken. Repairs were made to the gravel roof over Stand No. 139, and a new outlet put in the same. The new galvanized iron was given 2 coats of paint and the old work 1 coat of metallic paint.

Clinton Market—The old floor was taken up and one row of 3 by 10 timber placed 16 inches from centre in spaces 18 feet by 36 feet at Stand No. 121, and yellow pine flooring laid to same; also floor and beams laid to Stand No. 73. Four new beams 3 by 9 by 12 feet were put in under floor to Stand No. 58, and new flooring was put in. Repairs were made to the gangways and doors on the Canal and Spring street sides, with necessary bolts and hinges. Three skylights (flat) were put up on the roof. Repairs were made over Stands Nos. 1, 2, 12, 18, 20, 61, 105, 110, 111, 112, 113, 126, 128, 130 and 131; about 160 sheets of damaged tin cut out and replaced with stamped tin, painted both sides.

Centre Market—A fire-escape was put on the above building, as per order of the Building Department; also a pair of iron stairs leading from balcony to roof of shed. Repairs were made to roof over Hughes' Box Factory; all damaged tin was cut out and replaced with new tin to the amount of 95 sheets; all broken joints were soldered, and the entire roof given two coats of metallic paint ground in linseed oil.

Tompkins Market—Repairs have been made to the steps and platform on the Sixth street side of the market; new bolts were furnished where needed and other small repairs were made. The flooring of the market has been repaired and calked with navy oakum and payed with pitch.

Union Market—The plastering has been repaired and ceilings calcined.

THE COURTS (MAGISTRATES AND JUDICIAL).

First District Magistrate's Court—Some law books were furnished.

Second District Magistrate's Court—Some law books were furnished and repairs made to the plumbing and gas-fitting.

Third District Magistrate's Court—Some law books were furnished.

Third District Court-house (Jefferson Market)—1 keg of pristine for cleaning purposes was furnished for use of the Janitor of the building. Repairs were made to the iron railing around Judges' Bench and alterations made to the same; 200 yards of Brussels carpet were taken up, cleaned and relaid with best paper lining; 66 yards of body Brussels carpet was furnished and aid on the Judges' Platform.

Fifth District Magistrate's Court—One set of pigeon holes, 14 feet long, and one set 8 feet long was furnished, and alterations were made to the plumbing and carpenter work.

Third Judicial District Court—The following law books were furnished: Session Laws of 1895; New York Reports, from vol. 143 on; Supreme Court Reports (Hun's), from vol. 80 on; Miscellaneous Reports, from vol. 9 on; Abbott's New Cases, from vol. 31 on.

Fourth Judicial District Court—10 yards of Brussels carpet were laid with best paper lining in the new addition to the office. Some law books were furnished.

Fifth Judicial District Court—The following furniture was furnished for use of the Court: 1 armchair (spring and swivel) for Judge's private room; 1 armchair (spring and swivel) for Judge's Bench; 1 dozen armchairs for Judge's private chambers; 2 dozen cane seat chairs (high backs) for court-room; 6 cane seat armchairs (high back) for jury box. The following law books were furnished: New York Supplement, vols. 1 to 35, inclusive; Stover's New York Code of Civil Procedure (last edition); New York Reports, vols. 114 to 146; New York Consolidation Act; Abbott's New York Digest (complete), 14 vols.; Taylor on Landlord and Tenant, 8th edition; Wood on Landlord and Tenant, 2d edition; Wood on Master and Servant, 2d edition; Jones on Liens, 2d edition; Edwards on Bills and Notes, 3d edition; Story on Bailments, 9th edition; Edwards on Bailments, 3d edition; Chitty on Contracts, 2d edition; Sedgwick on Damages, 8th edition; Parsons on Contracts, 8th edition; Greenleaf on Evidence, 15th edition; Ray on Negligence (Passenger Carriers); Ray on Negligence (Freight Carriers); Birdseye's Revised Statutes, last edition; New York Miscellaneous Reports, vols. 1 to 14.

Eighth Judicial District Court—Some law books were furnished for use of the Court. The new sash partition, which was put up by the carpenters in the employ of the Bureau, was painted three coats, grained and varnished on both sides. The locks on the sash in the Clerks' office were overhauled and put in order.

Ninth Judicial District Court—Some law books were furnished for use of the Court, and one gavel furnished for use of the Judges. 1 oak wardrobe, 1 hat-stand, 1 oak library table, 2 oak flat-top desks, 1 oak stenographer's table, 1 oak desk; 4 oak revolving chairs were furnished to above court.

Tenth Judicial District Court—Some law books were furnished and repairs made to the plumbing.

#### HARLEM COURT-HOUSE.

The top of cornice was cut so as to form a gutter that will carry off the water to leader, and the stone work pointed up around doorway and water table, and the plaster pointed up where it was broken in the main hall, and five marble sills were reset. 15 new cast-iron grate bars were furnished for use of the boilers.

#### THE ARMORIES.

Seventh Regiment Armory—Repairs were made to the two horizontal tubular steam boilers; specifications were prepared for the above work, and given out to the lowest bidder. The work is completed and a first-class job was made.

Eighth Battalion Armory—Repairs were made to the glazing.

Ninth Regiment Armory—1 patent grate for boiler was furnished and set in place.

Twelfth Regiment Armory—6 new board signs were put up on the outside of the building, and painted and lettered to read: "Commit no Nuisance Under Penalty of the Law."

Twenty-second Regiment Armory—120 cast-iron boiler grate bars were furnished for the furnaces. The boilers have been overhauled, all the tubes taken out, such repairs made as were necessary. 3 new earthen washout closets were furnished and put in, in place of those that were broken and useless. The 3 wooden stationery tubs were removed and 3 new crockery tubs were put in place of those removed. Repairs were made to 2 bath-tubs, and new lead pipes were put in and the plumbing thoroughly overhauled. One 25-inch circular cast-iron vault cover in sidewalk was repaired. 2 roll-top desks were furnished, 1 for use of Inspector of Rifle Practice and 1 for use of Scorer. One 16-foot Deane's patent wrought-steel French range was furnished and put in with necessary brick and mortar, having 4 fires and 4 ovens, each oven is 22½ inches wide, 28 inches deep and 16 inches high, and provided with sectional non-warping bottoms, the fire chambers having patent anti-clinker grates, and the body of range was made of No. 16 sheet steel, and the oven doors have 4 steel supports. One 100-gallon copper boiler was also furnished and put in place, and connected with double top shelves.

Sixty-ninth Regiment Armory—Repairs have been made to the plumbing and glazing. The window shades were repaired and 10 new single shades, hung on Hartshorn rollers, were furnished.

Seventy-first Regiment Armory—The socket at main entrance gate was cut out and reset, and the bolts lengthened and replaced. Repairs were made to the flooring in the Armory, and 4 ash doors and other carpenter work was done. The necessity for the above work was due to there being a fire at the Armory. An invert was built in front of boiler, and the fire-box was lined with A No. 1 fire brick.

Second Battery—29 iron wire guards for windows were put up, and repairs were made to the glazing.

First Navy Battalion—The superstructure of the steamship "New Hampshire," situated at the foot of East Twenty-eighth street, was painted three coats of paint; the eighteen sky-lights on roof were reglazed and glass put in where broken, and painted three coats. The two sky-lights on roof over cabin and also wire netting were painted, and all glass put in where broken. A connection was made with the water pipes under the dock to the above ship and same connected with fire pipe, and connections made to tanks on upper deck and tank on lower deck next to boiler. This was done in case of fire.

#### BUREAU OF STREETS AND ROADS.

A "World" time clock was put up in the office of the Superintendent of Streets and Roads. About 40 yards of Brussels carpet were furnished and laid.

#### THE CORPORATION COUNSEL'S OFFICE.

Two bookcases were furnished for the use of the library. A new carpet was laid in the office of the Bureau of Street Openings. 3 polished oak tables, 2 desks, window shades and some law books were furnished. 1 oak wardrobe was furnished for use of the Corporation Counsel's office.

#### BOARD OF ASSESSORS.

A new partition was built to divide the different offices, and the same given three coats of paint. 6 window shades, 2 library tables, 5 cane seat chairs, 5 cane seat armchairs, 1 wardrobe (oak), 3 roll-top desks, 18 wood seat chairs, 6 waste baskets. 1 St. George stove with necessary fixtures were furnished, and the glass panel leading to the office was painted and lettered to read "Board of Assessors" and the door on inner room was lettered to read "Board Room."

#### COMMISSIONER OF STREET IMPROVEMENTS (TWENTY-THIRD AND TWENTY-FOURTH WARDS).

Two self-feeding and 2 scorchers stoves, with necessary pipe, elbows, bottom-boards and fixtures, were furnished for use of the Commissioner's offices at One Hundred and Forty-first street and Third avenue.

#### NOS. 10, 12 AND 14 CHAMBERS STREET.

The old tin roof, which was found to be in a very leaky condition, was taken off and replaced with a new tin roof of the best quality of roofing tin, painted bottom and top, and the same given two coats of the best metallic paint. All the old gutters were repaired on the front and back of the buildings, and given two coats of metallic paint. The roof is now in first-class condition.

#### NOS. 84, 86 AND 88 PARK ROW.

Repairs were made to the roofs of the above building and the coping reset.

#### CORPORATION YARD (EAST TWENTY-FOURTH STREET).

Repairs were made to the roofs of the meter and blacksmith shops situated in the above yard. All the damaged tin was cut out and replaced with 150 sheets of new tin. All broken joints were soldered, and the entire roof given two coats of metallic paint.

#### CORPORATION YARD (FIFTY-SIXTH STREET AND NORTH RIVER).

The ceiling and side walls of office of the above yard were calcined and all the woodwork painted three coats of paint. The doors, trim and windows on the outside of office and the roof and long shed were painted.

#### CORPORATION YARD (ONE HUNDRED AND TWENTY-THIRD STREET AND COLUMBUS AVENUE).

A shed, 75 feet long and 26 feet wide, was erected for use of the Bureau of Streets and Roads, for the safe keeping of tools, etc.

#### NEW SEVENTH DISTRICT POLICE COURT AND ELEVENTH JUDICIAL DISTRICT COURT, ON WEST FIFTY-THIRD AND FIFTY-FOURTH STREETS, BETWEEN EIGHTH AND NINTH AVENUES.

Fifty-third and Fifty-fourth Street Fronts—The entire exterior of building (with the exception of first-story granite blocks, both sides), has been cleaned and pointed.

Main Entrance—The vestibule and entrance hall on first story and the circular-stair hall, from first story to top, is finished in enameled brick, and is all ready for the iron stairs and elevator. The groined arches over entrance hall are finished, plastered and corniced. The first-story entrance hall, the Police and Civil Court rooms and passage to Prison and Police Court floors have been concreted, and are ready to receive the mosaic floor. The roof on Main Prison building, roof over Janitor's apartments, and the small roof over Guardroom, which are fireproof, are finished. The entire mason-work throughout is finished, with the exception of the following: The water-proofing and cementing of the open court, areas and driveway, the sidewalks on both streets, the cement floor in cellar above boiler-room, the mason work in connection with setting of boilers, and several small eight-inch walls in cellar for ventilating and cold-air ducts.

Iron-work—The main staircase is erected to second platform; most of the material is on the ground and is progressing rapidly. The Judge's stairs are complete except railings; the railings are in course of work in the shop and are expected here in about two weeks; the prison stairs leading to the several galleries are complete. The stairs from Charities and Correction Department room to open court are complete. The railings on Fifty-third street stoop are set. All grilles and cell doors are in position, except those known as "B" doors. The cell doors are complete without

locks; the locks are all ready to be put on. The window guards are complete throughout. The vault doors are complete and in the building ready to set up. The fire-escapes are in position and finished. The beds and seat racks in cells are all ready, but not yet put in position. The stairs from cellar to first gallery male prison are complete, except the platforms which are not yet set; these will be complete about the first week in January.

Plumbing, Drainage and Gas-fitting—The entire drainage of the building is finished; the iron waste, soil and leader pipes are in and the plumbers are now starting on the lead-work, which is progressing rapidly. The gas-fitting is finished with the exception of the cellar and three outlets in Civil Court floor circular stairs, two outlets on Police Court floor circular stairs, which cannot be done until circular stairs are up. This will finish the gas-fitting until the building is complete, when the gas and electric fixtures will be put in place. There are two separate service-mains; one for the prison portion and one for courts and clerks, each having separate meters. There are two separate rising lines, and from these rising lines all requisite sub-risers and branches are taken, the rising lines are two inches inside diameter, and sub-risers and sub-branches are of such sizes as are called for in the specifications.

There are 184 outlets as follows: Police Court, 10; Police Court, Clerks' rooms, 8; Police Court, mezzanine, 7; Civil Court, 11; Civil Court, Clerks' rooms, 11; Civil Court, mezzanine, 9; Main entrance, Fifty-fourth street, 11; circular stairs, 9; Judges' stairs, 4; Public Works' Department, 7; Street Cleaning Department, 6; corridor for prisoners, 5; Sergeants and Officers' rooms, 3; Matrons' rooms, 3; Wardens' rooms, 2; Guard and Public Waiting-rooms, 3; Janitors' apartments, 7; Prison portion, 32; cellar, 26; public toilets, 4; Prison yard and street, 4; Charities and Correction stairs, 4—total, 184.

There have been used 5,040 feet of gas pipes of various sizes from  $\frac{3}{8}$ -inch to 2-inch or  $\frac{1}{2}$  mile.

There have also been used 4,275 feet of cast-iron pipe, as follows: 50 feet of 8-inch, 530 feet of 6-inch, 980 feet of 5-inch, 900 feet of 4-inch, 865 feet of 3-inch, 950 feet of 2-inch.

The amount of wrought galvanized iron Croton water pipe used is as follows: 725 feet of 2-inch, 200 feet of 1 $\frac{1}{4}$ -inch, 950 feet of 1-inch, 500 feet or  $\frac{3}{4}$ -inch—total, 2,375 feet.

Plastering—The entire plastering is finished, both ornamental and plain, and only such plastering is left to be done which will be caused by the carpenters, plumbers and other mechanics in the performance of their work. This patching will not be done until the building is near its completion. The plasterers will take down their scaffolding and clean the floors so that the mosaic men can go ahead with these floors, which will be finished in about three weeks.

Steam-fitting—The steam-fitters have commenced work November 4, and worked until November 18, when they were called out on strike, and have been on strike ever since; consequently there is but little of their work done. It is expected that the strike will be settled in a few days, when there will be a large gang of men to hurry the work along.

Roofing—The main circular skylight, the large skylight over the Civil Court, and the four smaller skylights are finished and all are glazed. The main Court roof, the roof over Administration wing, the roof over Janitor's apartment and the roof over the prison portion is complete. The leaders are all in position, and the entire roofing is complete, with the exception of copper balusters on main roof, and a little work on copper tower; this will be done in about a week.

Electric Work—The electric-light wiring is as far along as the other work in building will permit. The speaking tubes are all in, but as yet there are no mouthpieces on same, and this will not be done until the trim is all on. The contractor has had men here at all times during the progress of the work testing the circuits, and everything appears to be in good working order. The wiring for bell work is finished, all ready to connect with bells and push buttons, with the exception of the entrances, which are all ready as soon as the holes are cut through the granite. Three outlets in Civil Court floor on circular stairs are all ready to be brought to location when the iron stairs are completed; also two outlets in circular stairs on Police Court floor waiting for iron stairs. The balance of the work is in the cellar, and this is but a few days' work. This is as far as the building will permit the electricians to go ahead.

Carpenter Work—The framing throughout is finished; but none of the trim is yet on, as the condition of the plaster walls which are too damp will not allow. The sashes are all fitted and hung, and in a week the trim will be well under way. The painters have commenced at iron window guards and outside of sash. The water-proof cellar, which is a separate contract from the general building, is finished and is being tested; it will take about another week before it can positively be ascertained if it is water-proof. The floor surface of the building, including the cellar, sidewalks, prison yard, prison drive and exterior steps cover an area of 38,115 square feet, or  $\frac{3}{4}$  acres. The stairways cover an area of 2,435 square feet, making the total area of the building to be kept clean and in order 40,550 square feet. Another work that occupied the attention of the Bureau was the fitting up of the Court and offices for the New Appellate Division of the Supreme Court on the third story of the Constable Building, corner Eighteenth street and Fifth avenue. Extensive alterations were made; new partitions were put up, carpets and linoleum laid, and the rooms furnished and made ready for the business of the Court. The floor was divided into 21 rooms, fire-proof partitions constructed to form Court rooms, Library, Clerks' rooms and Judges' private rooms. The work was completed according to the plans and specifications.

Under the New Constitution of the State of New York the Court of Common Pleas and the Superior Court of the City of New York have been consolidated with the Supreme Court in the First Judicial Department. The above Court-rooms in the County Court-house are now being altered and thoroughly fitted up and furnished for the use and occupation of the Justices of the Supreme Court for the First Judicial Department, for the holding of Trial and Special Terms therein. The above work, being under the supervision of this Department, is nearly completed and will be finished in a few days.

#### CROTONA PARK BUILDING.

The plastering in the building is nearly finished. The work on the above building has progressed slowly, for one cause or another, chiefly changes in the plans on the interior of the building. The flooring on the first story is nearly complete. In the inner vestibule of main entrance 100 square feet of mosaic has been laid, and the other work on this floor is progressing.

Second Floor—The flooring and ceiling is not yet complete; the toilet-room and 2 windows are unfinished. With these exceptions, and a little trim around the windows, I consider the floor complete.

Third Floor—This story is complete, except dome lights, partition and floor in centre corridor, marble or other floor in toilet-room. The ceilings are up and floors are down and oiled. This does not include the steam-heating apparatus whose coils are partly in place, but have not been put in place on account of the late strike for the four weeks past. The roof is complete and the flagstaff is in position.

Stoop at Main Entrance—The steps and side blocks are more than half-way up, and 6 more good working-days will complete the entire approach to the main vestibule where tiling has to be placed in the full inner facade. In viewing the general features of this building, I consider it in design and mechanical execution solid, tasteful and unique.

In conclusion, I would respectfully state that without any further delays in the work, such as strikes, etc., the building will be finished and ready for occupancy by the 1st of next May.

#### THE FREE FLOATING BATHS.

The baths (15 in number) are stored in their winter quarters. They were towed from the city to their winter quarters, foot of Henry street, South Brooklyn. 3,000 feet of best 3-inch manila bolt rope and 2,000 feet of best 6-inch manila bolt rope have been furnished for use of the baths; 7 pairs of rubber boots were supplied for use of the Bath Keepers, who are painting and assisting the carpenters in the repairs. A supply of coal was put on board the baths for the winter season.

There are at present three carpenters in the employ of the Bureau at work making repairs to the baths. The work is progressing steadily and will prove a great saving to the City. This work was formerly done by contract.

The painting done to the baths by the Bath Attendants up to December 31, 1895, is as follows: 225 rooms, 78 doors and the ceilings of 5 baths.

The following repairs will be made in time for the season of 1896: The piazzas on Baths Nos. 3 and 5 will be taken down, floor beams to be cut off flush and cornice to be built in place of piazza; the piazzas on Bath Nos. 1, 2, 10 and 11 are to be removed and rebuilt; Bath No. 9 is in bad condition from the deck up; on Baths Nos. 3, 4, 5, 6, 7, 8 and 9 the outside planking from the decks down are in bad condition, which will be removed and replaced by new material, etc., where needed, before the opening of the bathing season; the walls of the 15 baths, most of which are in bad condition, need repairs to the amount of between 15,000 and 20,000 lineal feet of timber.

Orders have been given by private contract for the building of 4 new pontoons, also the calking and repacking of 42 pontoons, which were found to be in a leaky condition; also the reblocking of all the old pontoons.

On the completion of the above work, the baths will be in good condition for the coming bathing season.

The number of bathers during the past season is reported as follows:

Male, 3,160,000; female, 1,800,000—total, 4,960,000.

The number of bathers during the year 1894:

Male, 2,948,000; female, 1,413,000—total, 4,361,000. Increase over last year, 599,000.

I am pleased to be able to report that while they were open for the use of the public, they were frequented by an unusually large number of persons, male and female bathers, and that no accident of any kind occurred.

#### SUMMARY.

Contracts and specifications were prepared for the following work, materials and supplies during the year 1895:

For 500,000 pounds of ice and 120 pieces for water coolers; for 5,050 tons of coal for the several buildings and armories in charge of this Bureau; for repairs to carpenter work on the baths; for repairs to tin roofs on the baths; for painting the baths; for putting in new pontoons, and repairing old ones; for electric fixtures for the New Criminal Court Building; for tiling and repairing all the floors in the Brown-stone Building; for putting up iron railings in Ludlow Street

Jail; for building a shed for the Bureau of Incumbrances; for repairs to floors in Clinton Market; for repairs to rifle range (Twelfth Regiment Armory); for furnishing new Sheriff's offices with furniture; for repairs to 2 horizontal boilers (Seventh Regiment Armory).

In addition to the above work, the boiler furnaces in the Twenty-second Regiment Armory, Ninth Regiment Armory, Sixty-ninth Regiment Armory, County Jail and Harlem Court-house have been overhauled and refined, and new grate bars were furnished where needed.

About 1,500 requisitions were drawn for repairs to carpentry, masonry, plastering, painting, plumbing, gas and steam fitting, electric wiring, iron work, glazing and other handicrafts. Repairs were made to slate and metal roofs and the furnishing of carpets, desks and other furniture, repairing, cleaning and regulating the public clocks, furnished engineers' and cleaners' supplies and toilet articles, window awnings and shades. Besides this a supervision is kept over contractors, carpenters, janitors, engineers and firemen, and male and female cleaners in the employ of the Bureau.

The care and supervision of the Free Floating Baths is also an important feature in the work of the Bureau.

About 1,100 bills have been examined and vouchers in duplicate have been drawn and transmitted.

#### LEASES.

The Fourth Judicial District Court, First street and Second avenue—Owner, Edwin Einstein. Rent, \$2,750 per annum; lease expires May 1, 1896. Repairs made by owner; water by City.

The Sixth Judicial District Court, Twenty-third street and Second avenue—Owners, Demilt Dispensary Trustees. Rent, \$1,700; lease expires May 1, 1896. Repairs by owners.

The Eighth Judicial District Court, Twenty-third street and Eighth avenue—Owners, Trustees Grand Opera House. Rent, \$3,500; additional for light and heat, \$162; lease expires May 1, 1899. Repairs by the City.

The Tenth District Civil and Sixth District Police Courts, southwest corner Third avenue and One Hundred and Fifty-eighth street—Owner, Murray Hill Park. Rent, \$2,600; lease expires May 1, 1896. There is no provision made for repairs.

The Eleventh District Civil Court—Owners, New York Turn Verein, Bloomingdale. Rent, \$3,500; lease expires January 1, 1895. Repairs, light and heat by owners.

The Finance Department, Tax Receiver's Office, Commissioner of Jurors, Commissioners of Accounts, Stewart Building—Owner, Henry Hilton. Rent, \$63,500; lease expires May 1, 1896. Owner makes repairs and furnishes heat and light.

Commissioners of Taxes and Assessments, No. 27 Chambers street—Owner, Mary A. Schankas, executrix of her late husband, Daniel Schankas. Rent, \$2,500; lease expires May 1, 1897. Repairs made by owner.

Department of Public Works, No. 31 Chambers street—Owner, Peabody Wetmore. Rent, \$12,000; lease expires May 1, 1896. Repairs made to exterior and taxes paid by owner.

Corporation Counsel, Staats Zeitung Building—Rent, \$16,000; lease expires May 1, 1896. Owner makes repairs and furnishes light and heat.

The First Battery Armory—Owner, Catherine Schmuck. Rent, \$2,750; lease expires May 1, 1896. Repairs made and gas furnished by owner.

The Ninth Regiment Armory—Owners, Marietta Stevens and John Melcher, executors of Paran Stevens Estate. Rent, \$15,000; lease expires May 1, 1896. Repairs by owners.

Department of Taxes and Assessments, Stewart Building—Henry Hilton, owner. Rent, \$18,000; lease expires May 1, 1896. Repairs by owner, also light and heat.

#### Property Owned by the City.

Nos. 8, 10, 12 and 14 Chambers street—John O'Rourke, lessee; lease expires May 1, 1896.

Nos. 84, 86 and 88 Park Row, No. 49 Beekman street.

North side One Hundred and Sixty-first street, between Amsterdam and St. Nicholas avenues—Herman Schmitt, lessee; lease expires May 1, 1896.

South side One Hundred and Fifty-second street, between Amsterdam and St. Nicholas avenues—John Delahanty, lessee; lease expires May 1, 1896.

East side Amsterdam avenue, between One Hundred and Eighty-first and One Hundred and Eighty-second street—James F. McGowan, lessee. Lease expires May 1, 1896.

North side One Hundred and Fifty-first street, between St. Nicholas and Amsterdam avenues—Mahoney Brothers, lessees. Lease expires May 1, 1896.

North side One Hundred and Fifty-first street, between St. Nicholas and Amsterdam avenues—Brian G. Hughes and Josephine G. Hughes, lessees. Lease expires May 1, 1896.

North side One Hundred and Fifty-first street, between St. Nicholas and Amsterdam avenues—Brian G. Hughes, lessee. Lease expires May 1, 1896.

North side One Hundred and Fiftieth street, between St. Nicholas and Amsterdam avenues—Brian G. Hughes, lessee. Lease expires May 1, 1896.

All the above leases provide that the City shall keep the roofs in repair, and the lessees are to do all the other repairs.

In conclusion, would say that, as shown by the foregoing report, you will readily see that the duties of this office are varied and numerous, and am pleased to state that the public buildings and offices under my care are now, what they have never been before, in a perfectly clean and tenable manner. All this work has entailed a great amount of labor in making the necessary repairs, and, what is more, it has been done with less money than under my predecessor's incumbency.

Very respectfully submitted,

JOHN C. GRAHAM, Superintendent of Repairs and Supplies.

#### DOCUMENT "J"—REPORT OF THE SUPERINTENDENT OF INCUMBRANCES.

BUREAU OF INCUMBRANCES, NEW YORK, January 6, 1896. Gen. CHARLES H. T. COLLIS, Commissioner of Public Works:

DEAR SIR—I submit herewith the following report of the operations of this Bureau for the quarter ending December 31, 1895 (months of October, November and December), together with a condensed statement of the entire business transacted during the year 1895: 882 complaints of obstructions received and attended to; 189 seizures and removals of obstructions made; 1,799 building material permits issued; 256 miscellaneous permits issued; 3 permits issued to cut down shade trees; 53 permits issued to erect temporary roofs or sheds over sidewalks in front of new buildings, from November 1, 1895; 8 notices served to repair defective vault covers.

Expense of seizing and removing 189 articles, including 59 loads of dirt, stones and rubbish, and throwing in dirt and rubbish on premises at various places; removing 122 dead and dangerous trees, stumps, posts, etc., \$2,928.20—Total expenses for the quarter, \$5,436.52.

Received from owners for the redemption of seized articles, \$149; received from public sale of unredeemed goods, November 11, 1895, \$566.91; received for permits issued for temporary sheds over sidewalks, \$265—\$980.91; all of which was duly paid over to the City Chamberlain.

Salary account—Appropriation, \$8,100; to transfer from appropriation for removing obstructions and incumbrances, \$1,350—\$9,450; expended up to December 31, 1895, \$8,984.61—Balance, \$465.39.

The appropriation for removing obstructions and incumbrances from streets and avenues, \$25,000; by transfer to appropriation for "Salaries," \$1,350—\$23,650; expended up to December 31, 1895, \$15,101.43—Balance, \$8,548.57.

During the year 1895 the total number of complaints of obstructions received was 3,806; removals to the Corporation Yards, 1,264; removals of loads of dirt, stone and rubbish, 1,810; removals of dead and dangerous trees, stumps, etc., 721; number of building material permits issued, 7,335; number of miscellaneous permits issued, 1,320; number of permits issued to erect temporary sheds over sidewalks, 53; number of permits issued to cut down shade trees, 14; number of notices issued to repair defective vault covers, 23.

#### APPROPRIATIONS FOR THE YEAR 1895.

For Removing Obstruction from Streets and Avenues	\$25,000 00	Salaries—Clerks, Inspectors, Keeper of Yard, Watchmen, Laborers, etc.	\$14,117 11
For Removing Obstructions from Streets and Avenues—Salaries	8,100 00		\$24,086 04
Total	\$33,100 00	Balance	\$9,013 96
Summary of expenditures for the year, as follows:			
Removals of redeemable obstructions	\$2,736 50	Moneys received—	
Removals of dirt, stone, etc.	2,601 40	From owners of seized articles	949 25
Removals of dead and dangerous trees, etc.	2,523 50	From sale of unredeemed articles at public auction, June 10, 1895.	262 37
Removals of Telegraph poles	540 00	From sale of unredeemed articles at public auction, November 11, 1895.	566 91
Removals of Telegraph wire	99 00	From permits issued for temporary roofs or sheds over sidewalks (from Nov. 1, 1895).	265 00
Transportation expenses	490 05	Total	\$2,033 53
Expense of horse and wagon for Superintendent	975 48		
Miscellaneous	3 00		

A résumé of the work of this Bureau during the present year, as compared with that of the year previous, shows the number of obstructions removed to be largely in excess. The number of complaints on record also shows an increase over the previous year.

The number of building material and miscellaneous permits issued have also advanced owing to the renewed activity in the building trades.

Obstructions upon the streets, I can safely say, have greatly decreased, and the amount expended this year for the removal of incumbrances and obstructions from streets and avenues is shown to be \$8,548.47 less than last year.

Since my incumbency to office, I have endeavored to ascertain where evils existed in the system of procedure of this office, and to establish such changes as would prove conducive to public benefit and economy.

I find from the record of the year previous that 9,115 loads of dirt, stone and rubbish were removed, and large quantities thrown on premises at various places, which cost \$11,774.65.

Each year, for several years back, I also find that many thousands of dollars were expended for the removal of this class of obstruction.

This year the quantity removed was 1,810 loads and the cost of removal was, \$2,601.04.

The saving in one year in the cost of removal of this class of material alone being \$9,173.25, which is due, I might add, to our indefatigable efforts to compel owners and those responsible for a great deal of it to remove it themselves.

The evil of surreptitiously dumping refuse, dirt, stone and other material upon the public streets has been continued so long that the eventual suppression of the practice will yet require some time.

The renewed activity and vigilance of the Police Department during the past year has also been instrumental in preventing much of this material from being dumped upon our streets.

A noticeable improvement is found in the condition of streets, which are temporarily occupied with building material, for which permits have been issued by this Bureau for the construction of new buildings and the repair and alteration to others. Violations of the conditions of the building material permit were frequent, and it was with much difficulty that I was enabled to partially correct many of the abuses found, and to impress upon the persons obtaining them the importance of strict adherence to the conditions of the same.

For many years past it has been the custom of builders and dealers in second-hand material to remove buildings where new ones were to be erected, to store the old brick in the street until such time as it should be used in the construction of the new building. The clause in the permit issued by this Bureau, which formerly permitted the piling of brick and stone upon streets and avenues, has now been stricken out and no more work of this character will be permitted, which will prevent the future use of our streets for the storage of unsightly and dangerous brick piles.

The subject of street obstruction I have more than ordinarily reviewed, and I find that the work of this Department is seriously embarrassed on account of vague and ambiguous laws and ordinances governing the same. There are many ordinances relating to the use of streets and sidewalks for certain purposes that need revision and others that should be rescinded and repealed.

The law which authorizes the placing of building material upon streets and avenues is for its temporary use, and was never intended to permit the storing of material thereon when work was not actually in progress. It was from the latter abuse of the privilege that compelled the action taken by the Department in abolishing the use of streets for this purpose altogether.

In the discharge of the duties of this office many difficulties are encountered which often preclude our attainment of satisfactory results, and materially affect the efficiency of the service, which I find attributable in many instances to unjust and improper legislation.

While advocating certain legislative changes directly affecting the work of this Department, it becomes necessary to show that, notwithstanding the relation of this Department to certain matters within its jurisdiction and control, there are other municipal departments maintaining and exercising similar attitudes over similar matters, which, to a large extent, has embarrassed our efforts to obtain complete results.

Referring to the matter of permits issued by this Bureau to place building material upon streets and avenues, I find that similar permits are issued by the Park Department, under section 688 of the Consolidation Act, for certain streets contiguous to parks controlled by them.

I also find that permits for the same purposes are issued by the Commissioner of Street Improvements of the Twenty-third and Twenty-fourth Wards. These permits, I may say, are not issued by any warrant of law or prescribed authority, but solely from custom.

Upon examination of the Laws of 1890, which created the office of Commissioner of Street Improvements for the Twenty-third and Twenty-fourth Wards, there seems to be no provision made for the granting of these permits. They were formerly issued by the Park Department, who maintained control over these Wards, and the practice was continued when the Commissioner of Street Improvements assumed office.

I also find that this Department is expected to remove all obstructions and incumbrances within this territory, as no provision is made for the work to be done by the said Commissioner. This is a serious tax upon the limited appropriation allowed this bureau, which amount has heretofore been totally inadequate to properly perform the work in this part of the city.

It appears to be essentially proper that some provision should be made for the performance of this work by the Commissioner of Street Improvements in view of the authority vested in him for the control of other matters relating to the streets and avenues of the Twenty-third and Twenty-fourth Wards. It seems manifestly obvious that, with the power to grant permits to obstruct the streets with material and other obstructions, a similar authority should be given to remove them.

There are many reasons why permits of this character should be confined to one department, and I believe that much improvement in the system will result by placing the same solely under the control of this Department. The permits issued by the Park Department are comparatively few in comparison with the large number issued by this Department.

I find that in granting permits to place building material upon asphalt-paved streets, a bond is always required from the person applying for the same to guarantee the preservation of the pavement while work is in progress, and since this system has been in vogue no controversy has ever arisen over any damage done to the pavement that has been so used.

Other Departments in granting permits for this purpose do not exact bonds of indemnity of this kind, but grant permits unrestrictedly; and there is no indication that their inspectors investigate the various locations where permits have been issued to prevent violations of the conditions of the same.

Innumerable citations of reasons, in addition to the foregoing, can be given to demonstrate more ostensibly the advisability of relieving the several Departments of this authority and placing it under the jurisdiction of this Department.

Another conflicting and manifestly obnoxious authority we find in section 688 of the Consolidation Act which confers upon the Park Department the "control and jurisdiction over all erections and projections which have or may be constructed upon streets or avenues within a distance of 350 feet from the outer boundaries of any public park."

Under this authority permits for bay-windows are granted, thus conflicting with the powers of the Board of Aldermen and with section 324 of the same act.

In many instances I have found during the application of the authority vested in the Commissioner of Public Works for removing obstructions and incumbrances from streets and avenues that many legal technicalities arise and are often involved from the permits issued by the Park Department to erect and maintain projections within the territory above mentioned. The power of the Board of Aldermen to grant permits for various obstructions upon streets and avenues seems sufficient and should be absolute in this respect.

The concurrent jurisdiction of different municipal departments over similar matters is unquestionably productive of much confusion and conflict when the question of authority arises, and the legal reasons for discontinuing the power now weakened by distribution are manifestly obvious from the many cases brought to our notice.

An ordinance recently enacted by the Board of Aldermen, permitting the erection of temporary roofs or sheds over sidewalks in front of new buildings in course of construction is highly commendable, because of the facilities afforded the builder to provide for pedestrians, unobstructed sidewalks, and protection from falling material, and which also saves considerable obstruction to the street with building material.

In this connection a new feature has been introduced by establishing a charge for the permits that are issued, which, it is anticipated, will prove of sufficient pecuniary interest to warrant the adoption of the same method for other permits that are issued for various purposes. No charge whatever has heretofore been exacted for permits issued by this Bureau, and it is yet too soon to judge what the result will be. An innovation has, at least, been established, the career of which will prove interesting to watch.

Respectfully submitted,

WILLIAM HENKEL, Superintendent of Incumbrances.

#### DOCUMENT "K"—BUREAU OF WATER REGISTER.

BUREAU OF WATER REGISTER, NEW YORK, December 31, 1895. Hon. C. H. T. COLLIS, Commissioner of Public Works:

SIR—I herewith transmit statement of moneys received for water rents, penalties, taps, etc., for the quarter ending December 31, 1895:

Principal	Penalties	Total	December	\$1,288 75
October	\$30,208			

deposit. Of the amount in the foregoing schedule for restoring and repaving streets, etc., \$217.75 was likewise deposited January 2, 1896, and of the Meter Fund No. 2, \$23.10 of the amount received was deposited Thursday, January 2, 1896. Of the amount received as principal for the month of December, as stated in the foregoing schedule, \$13,881.61 was deposited on January 2, 1896, but was received on December 31, 1895. Of the amount for penalties stated as having been received in the foregoing schedule, \$67.65 was deposited with the Chamberlain on January 2, 1896, but was received December 31, 1895.

It has been the custom in making up the reports to use the date of the deposit, making that in the report the date on which it was received in this office. This has led to serious confusion in the distribution of the funds received, in the yearly report as well as in the quarterly, as I will state more fully in my annual report.

Very respectfully,

COLUMBUS O. JOHNSON, Water Register.

December 31, 1895. Gen. CHARLES H. T. COLLIS, Commissioner of Public Works:

DEAR SIR—I herewith transmit a schedule of the charitable institutions exempt from taxation, which is copied from a previous annual report, together with those that have been exempted during the year 1895. Also a statement of the amount of revenue derived from Croton water from the year 1842, up to and including December 31, 1894, copied from a former annual report, together with the revenues derived from Croton water for the year 1895, and also a statement of the entire amount of money received in this office during the year 1895, as more particularly set forth in that part of my report.

*Charitable Institutions which have Applied for Exemption for Charges for Croton Water under the Provisions of Chapter 696 of the Laws of 1887, and as amended by Chapter 492, Laws of 1890, which the Counsel to the Corporation has Advised are Entitled to Exemption under the Act.*

YEAR.	INSTITUTION.	RATED.	LOCATION.	AMOUNT.
1883	Association for the Relief of Aged and Indigent Females.	Reg. rents...	10th ave. and 104th st.....	\$45 03
1889	Asylum of St. Vincent de Paul.	Meter.....	No. 211 West 39th st.....	309 70
1891	Association for Befriending Children and Young Girls.	".....	No. 132 Second ave.....	12 50
1894	American Female Guardian Society.	Reg. rents...	Nos. 225 and 227 East 80th st.....	51 00
1888	Baptist Home for Aged and Infirm Persons.	Meter.....	4th ave. and East 63th st.....	128 30
1888	Colored Orphan Asylum.	".....	143d st. and Northern Boulevard.....	639 20
1894	Children's Aid Society.	".....	No. 27 St. Mark's pl.....	14 00
1894	".....	".....	Nos. 242 and 244 William st.....	30 00
1894	".....	".....	No. 287 East Broadway.....	35 00
1894	".....	".....	Nos. 127 and 129 Avenue B.....	17 00
1894	".....	".....	No. 397 East 12th st.....	17 00
1894	".....	".....	Nos. 825 and 827 Second ave.....	18 00
1894	".....	".....	Nos. 400 and 402 Seventh ave.....	17 00
1894	".....	Reg. rents...	No. 78 Seventh ave.....	16 00
1892	Die Deutsche Poliklinik.	".....	No. 118 West 21st st.....	20 00
1890	Day Nursery and Babies' Shelter.	".....	No. 131 West 14th st.....	27 00
1888	French Benevolent Society.	Meter.....	Nos. 135 and 137 Second ave.....	55 60
1888	German Hospital Dispensary.	".....	Park ave. and 77th st.....	724 70
1888	German Hospital and Dispensary.	".....	Northwest cor. Broome and Essex sts.....	17 00
1894	Good Samaritan Dispensary.	".....	Northeast cor. 97th st. and Avenue A.....	190 90
1888	Hebrew Sheltering and Guardian Society.	".....	West side Boulevard 150th and 151st sts.....	801 80
1888	Hebrew Sheltering and Guardian Society.	".....	Southeast cor. 10th ave. and 104th st.....	180 10
1888	Home for the Aged and Indigent Women.	".....	Nos. 119 and 127 West 125th st.....	282 30
1888	Home for the Aged and Infirm Hebrews.	".....	West side of 10th ave., bet. 136th and 138th sts.....	2,441 30
1888	Hebrew Benevolent and Asylum Society.	".....	Southeast cor. of 89th st. and Avenue A.....	38 80
1889	Home of Good Shepherd and St. Ann's Home.	Reg. rents...	East side of 4th ave., bet. 67th and 68th streets.....	447 60
1888	Hahnemann Hospital.	Meter.....	Nos. 487 to 491 Hudson st.....	32 00
1890	Home for Old Men and Aged Couples.	Reg. rents...	Nos. 201 to 215 East 70th st.....	175 50
1889	Home for the Aged, Little Sisters of the Poor.	Meter.....	North side of West 106th st., bet. 9th and 10th ave.....	175 10
1888	Home for the Aged, Little Sisters of the Poor.	".....	Foot of East 90th st.....	640 00
1888	Home of the Good Shepherd.	".....	Southeast cor. Avenue A and 90th st.....	327 80
1888	Leake and Watts Orphan Home.	Reg. rents...	West 10th st. and 9th ave.....	96 30
1888	Manhattan Dispensary and Hospital.	Meter.....	11st st. and 10th ave.....	32 00
1888	Manhattan Eye and Ear Hospital.	".....	No. 103 Park ave.....	247 90
1888	Methodist Episcopal Church Home.	".....	Nos. 1584 to 1602 10th ave.....	219 00
1889	Montefiore Home for Chronic Invalids.	".....	Boulevard and West 135th st.....	497 60
1888	Mount Sinai Hospital.	".....	East side of Lexington ave., bet. 66th and 67th sts.....	1,001 60
1890	Margaret Strachen Home.	".....	Nos. 123 and 105 West 27th st.....	23 00
1892	New York Institution for the Blind.	".....	East side of 9th ave., bet. 33d and 34th sts.....	1,048 00
1888	New York Foundling Asylum.	".....	Third and Lexington aves., bet. 68th and 69th sts.....	1,220 80
1888	".....	Reg. rents...	Spiuyten Duyvil.	128 40
1888	New York Asylum for Lying-in Women.	".....	No. 139 Second ave.....	12 00
1888	New York Cancer Hospital.	Meter.....	Southwest cor. 105th st. and 8th ave.....	265 10
1888	New York Hospital and Bloomingdale Asylum.	".....	Nos. 7 to 21 West 15th st.....	2,746 50
1894	New York Hospital and Bloomingdale Asylum.	".....	No. 8 West 16th st.; also Boulevard, bet. 117th and 118th sts.....	1,402 20
1888	New York Hospital and Bloomingdale Asylum.	".....	Hudson st., bet. Jay and Staple sts.....	18 00
1888	New York Homoeopathic Hospital.	Reg. rents...	West side Ave. A, bet. 63d and 64th sts...	50 00
1888	New York Ophthalmic Hospital.	Meter.....	No. 201 East 23d st.....	122 50
1894	New York Post-Graduate Medical School, etc.	".....	Nos. 344, 346 and 348 Second ave.....	153 00
1888	New York Society for the Relief of Ruptured and Crippled.	".....	Nos. 350 and 352 Second ave., and No. 303 East 26th st.....	8 00
1889	New York Infirmary for Women and Children.	Reg. rents...	No. 135 East 42d st.....	454 50
1889	New York Infirmary for Women and Children.	Reg. rents...	Nos. 4 and 5 Livingston pl.....	39 00
1889	New York Mothers' Home for the Sisters of Misericordia.	".....	No. 531 East 86th st.....	21 00
1888	Nursery and Child's Hospital.	Meter.....	No. 571 Lexington ave.....	577 70
1891	New York Juvenile Asylum.	".....	East side 11th ave., bet. 176th and 178th streets.....	1,602 20
1890	New York Eye and Ear Infirmary.	".....	No. 218 Second ave.....	70 00
1894	New York Orthopaedic Dispensary and Hospital.	Reg. rents...	Nos. 126 and 128 East 59th st.....	48 00
1888	Protestant Episcopal Orphan Home and Asylum.	Meter.....	East 49th st., bet. Lexington and 4th aves.....	241 90
1888	Presbyterian Hospital.	".....	Park ave. and East 70th st.....	756 70
1890	Peabody Home for Aged and Indigent Women.	Reg. rents...	Boston rd. and Clover st.....	.....
1888	Roman Catholic Orphan Asylum.	".....	East side 5th ave., bet. 51st and 52d sts.; south side East 52d st., bet. 5th and Madison, and Madison and 4th aves.; Madison, and Madison and 4th aves.....	1,709 00
1888	Roosevelt Hospital.	Meter.....	South side West 59th st., bet. 9th and 10th aves.....	1,040 90
1888	Sisters of the Order of St. Dominic.	Reg. rents...	Nos. 137 to 143 Second st.....	40 00
1888	Skin and Cancer Hospital.	Meter.....	No. 243 East 34th st.; Fordham Heights.	120 00
1888	Sloane Maternity Hospital.	".....	59th and 60th aves.....	144 90
1888	St. Elizabeth Hospital.	".....	No. 225 West 31st st.....	32 00
1888	St. Francis Hospital.	".....	No. 609 Fifth st.....	450 30
1888	St. Joseph's Hospital.	Reg. rents...	East 143d and East 144th sts., bet. St. Ann's and Brook aves.....	15 00
1888	St. Luke's Hospital.	Meter.....	No. 27 West 54th st.....	760 10
1888	St. Vincent's Hospital.	".....	Nos. 152 to 162 West 11th st., and Nos. 160 to 174 West 12th st.....	303 20
1888	St. James' Home.	Reg. rents...	Also Nos. 17 and 19 Seventh ave.....	110 00
1888	St. Philip's Parish Home.	".....	No. 26 James and No. 22 Oliver sts.....	34 00
1888	St. Joseph's Home for the Aged.	".....	No. 217 West 15th st.....	10 00
1888	St. Joseph's Orphan Asylum.	".....	North side 89th st., bet. 1st ave. and Avenue A.....	200 00
1888	St. Mary's Free Hospital for Children and Destitute Children.	Meter.....	Nos. 405 and 407 West 34th st.....	9 00
1888	Society for the Relief of Half Orphans and Destitute Children.	Reg. rents...	Manhattan ave., bet. 104th and 105th sts.	227 50
1890	St. Mary's Lodging-house.	".....	No. 143 West 14th st.....	33 00
1891	St. Joseph's Industrial Home.	".....	No. 65 East 81st st.....	240 00
1890	Sheltering Arms.	".....	South side 129th st., bet. Amsterdam ave. and Broadway.....	34 40
1890	".....	".....	West side Amsterdam ave., bet. Lawrence st. and Broadway.....	116 00
1890	".....	".....	North side Lawrence st., bet. Amsterdam ave. and Broadway.....	21 85
1891	St. Joseph's Institute for the Improved Instruction of Deaf Mutes.	".....	Lorillard pl., bet. 188th and 189th st.....	24 00
1885	St. Joseph's Home. Not exempt since 1887.	Meter.....	Nos. 145 and 147 East 28th st.....	300 40
1892	St. Elizabeth Industrial School.	Reg. rents...	No. 235 East 14th st.....	20 00
1888	Trinity Corporation.	Meter.....	No. 50 Varick st.....	86 40
1888	The Orphan Asylum of the City of New York.	".....	West 73d st., bet. 11th ave. and Riverside Drive.....	435 60
1888	The Laura Franklin Free Hospital.	".....	Nos. 15 and 17 East 11th st.....	115 60
1890	The Home for the Aged of the Church of the Holy Communion.	Reg. rents...	No. 33 First ave.....	11 00

YEAR.	INSTITUTION.	RATED.	LOCATION.	AMOUNT.
1890	The St. Mark's Hospital.	Reg. rents...	No. 117 Second ave.....	\$34 00
1890	The Five Points House of Industry.	Meter.....	1st ave., bet. 64th and 65th sts.	10 30
1890	The Colored Home and Hospital.	".....	Nos. 100 and 102 East 23d st.	7,309 50
1890	The New York Society for the Prevention of Cruelty to Children.	Reg. rents...	3d ave.	35 00
1890	The Babies' Hospital.	".....	No. 65 Lexington ave.....	29 00
1891	The House of Mercy.	Meter.....	14th ave., bet. 21st and 25th sts.	189 00
1890	The Guardian of the Sisterhood of the Holy Communion.	Reg. rents...	No. 328 Sixth ave.....	27 00
1892	The Samaritan Home for the Aged.	".....	No. 414 West 22d st.....	28 00
1892	The Institution for Improved Instruction of Deaf Mutes.	Meter.....	West side Lexington ave., from 67th to 68th st.	1,018 40
1892	The New York Home for Convalescents.	Reg. rents...	No. 433 East 118th st.....	10 00
1892	The Free Home for Destitute Young Girls.	".....	No. 23 East 11th st.....	16 95
1892	The American Female Guardian Society.	Reg. rents...	No. 32 East 30th st., through to No. 29 East 29th st.	62 00
1893	The Harlem Eye, Ear and Throat Infirmary.	".....	No. 144 East 127th st.....	9 00
1893	The Louis Down-town Sabbath and Daily School.	".....	No. 267 Henry st.....	20 00
1892	The House of the Holy Comforter.	".....	No. 149 Second ave.....	38 00
1892	The Home for Incurables.	Meter.....		

TOTAL RECEIPTS.			
Regular Rates.			
Quarter ending Mar. 31.....	Principal.	Penalty.	Total.
" June 30.....	\$20,985 57	\$2,007 10	\$31,992 67
" Sept. 30.....	493,165 20	1,710 00	494,875 20
" Dec. 31.....	820,789 76	2,752 05	823,541 81
	244,910 49	6,867 00	251,807 49
	<b>\$1,588,851 02</b>	<b>\$13,366 15</b>	<b>\$1,602,217 17</b>
Street Sprinkling.			
Quarter ending June 30.....	Tugs—	Quarter ending Mar. 31.....	15,861 80
" Sept. 30.....	14,128 33	" June 30.....	\$1,665 00
	14,270 07	" Sept. 30.....	6,460 30
	<b>\$28,475 00</b>	" Dec. 31.....	2,010 00
			4,817 50
Meter Measurement.			
Meters outside Riverdale and exclusive of steamboat meters—	Number of permits, 457.		
Quarter ending Mar. 31.....	Total receipts from Croton water..		
" June 30.....	\$425,697 26		
" Sept. 30.....	410,612 00		
" Dec. 31.....	505,072 57		
	382,840 09		
	<b>\$1,724,048 02</b>		
Riverdale meters—	Number of permits, 2,898.		
Quarter ending Mar. 31.....	Amount set down as revenue.....		
" June 30.....	\$237 00		
" Sept. 30.....	557 80		
" Dec. 31.....	3,024 44		
	499 92		
	<b>\$4,316 16</b>		
Steamboat meters—	Number of permits, 2,519.		
Quarter ending Mar. 31.....	Quarter ending Mar. 31.....		
" June 30.....	\$22,080 60		
" Sept. 30.....	24,332 49		
" Dec. 31.....	29,527 60		
	26,659 40		
	<b>\$97,805 00</b>		
	<b>1,326,369 18</b>		
Miscellaneous.	Number of permits, 1,475.		
Building Purposes—	Quarter ending Mar. 31.....		
Quarter ending Mar. 31.....	\$8,479 79		
" June 30.....	12,450 63		
" Sept. 30.....	16,255 26		
" Dec. 31.....	11,127 40		
	<b>48,323 04</b>		
	Number of permits, 1,616.		
Extras, boilers, etc.—	Total receipts.....		
Quarter ending Mar. 31.....	\$121 50		
" June 30.....	243 00		
" Sept. 30.....	344 28		
" Dec. 31.....	845 35		
	<b>1,654 05</b>		
	Total revenue.....		
	<b>\$3,972,053 61</b>		

Of the above amount there is included in the first quarter \$20,664.53, which was received December 31, 1894, and not included in the yearly report of 1894. In this amount \$17,548.83 were for meter measurements; \$2,974.40 principal on regular rates; \$141.30 penalties.

In making the above report the general plan adopted in the quarterly report has been followed out, with the addition of separating the meter measurements from the principal. The amount of money received in this office during the year 1895 is \$3,539,373.16.

In the former annual report the receipts of December 31, 1893, which were not deposited with the City Chamberlain until January 2, 1894, were included, while the receipts of December 31, 1894, were not included, which was incorrect, as it did not give the actual receipts of that year. In the report herewith submitted the receipts of December 31, 1894, and also the receipts of December 31, 1895, are included, so that hereafter the annual report will include the actual receipts of the year and nothing else.

As stated in the former annual report, the Bureau has been much hampered on account of lack of space to carry on the business of the Bureau. This lack of space has continued during the present year. The work of transferring the accounts from the old ledgers to the new has progressed as rapidly as was advisable under the circumstances. The ledgers adopted by the Department previously are of such enormous size and so totally inadequate and unfit for the use for which they were supposed to have been made, that any further use of those ledgers has been abandoned and books of proper size have been substituted in their place, and now the transferring will go on with greater rapidity.

Very respectfully,  
COLUMBUS O. JOHNSON, Water Registrar.

#### DOCUMENT "L."—REPORT OF ENGINEER IN CHARGE OF STREET OPENINGS.

COMMISSIONER'S OFFICE, NEW YORK, December 31, 1895. Hon. CHARLES H. T. COLLIS, Commissioner of Public Works:

SIR—In accordance with your instructions I herewith present a statement in detail of the work of this office upon "Surveys, Maps, etc., for Street Openings and New Streets" for that part of the city south of the Harlem river, for the year ending December 31, 1895.

The maps, plans, abstracts, etc., for the following streets, roads and avenues have been prepared and forwarded to the Departments, Commissions, etc.:

Rule maps and technical descriptions of the property to be acquired by the City for streets and avenues to be legally opened, delivered to the Counsel to the Corporation, viz.: One Hundred and Thirty-fifth and One Hundred and Thirty-sixth streets, between Amsterdam avenue and Boulevard; One Hundred and Sixty-third and One Hundred and Sixty-seventh streets, between Amsterdam avenue and Kingsbridge road; One Hundred and Seventy-eighth street, between Amsterdam avenue and Kingsbridge road; land to be taken for the approach to the Bridge of Harlem river, from First to Willis avenue; total lengths, 4,524 feet.

#### Work in Progress.

Draft, damage and benefit maps, etc., for the use of the Commissioners appointed by the Supreme Court for acquiring title to the streets: Ninety-fourth street, between First avenue and Harlem river; One Hundred and Thirty-fourth, One Hundred and Thirty-fifth and One Hundred and Thirty-sixth streets, between Amsterdam avenue and Boulevard; One Hundred and Eighty-sixth and One Hundred and Eighty-eighth streets, between Amsterdam avenue and Wadsworth avenue; Two Hundred and Fourth, Two Hundred and Fifth and Two Hundred and Sixth streets, between Amsterdam avenue and the United States Channel line, Harlem river; Post avenue, between Amsterdam avenue and Dyckman street; Edgecombe road, between One Hundred and Fifty-fifth and One Hundred and Seventy-fifth streets; Elm street widening and extension, from City Hall place at Chambers street to Great Jones street, opposite Lafayette place; total lengths, 21,623 feet.

Final copies (two copies) damage and benefit maps, abstract, assessment list for benefit, etc.: One Hundred and Thirty-fourth street, between Amsterdam avenue and Boulevard; One Hundred and Fifty-ninth, One Hundred and Sixtieth, One Hundred and Sixty-second, One Hundred and Sixty-fourth, One Hundred and Sixty-fifth, One Hundred and Sixty-sixth and One Hundred and Sixty-seventh streets, from end of present termini to the westerly line of the Edgecombe road; One Hundred and Eighty-first street, between Eleventh avenue and Boulevard Lafayette, rearranging area of benefit, etc.; One Hundred and Eightieth and One Hundred and Eighty-second streets, between Amsterdam avenue and Kingsbridge road; Ninth avenue, between Two Hundred and First street and Kingsbridge road; Tenth avenue, between Academy street and Kingsbridge road; Isham street, between Amsterdam avenue and Kingsbridge road; Sherman avenue, between Amsterdam avenue and Kingsbridge road; Post avenue, between Amsterdam avenue and Dyckman street; Exterior street, between Sixty-fourth and Eighty-first streets, East river, with its profile, grades, etc.; total lengths, 26,739 feet.

Assessed area of benefit equal to 10,711 city lots.

Maps and Profiles for New Streets—The continuation of One Hundred and Sixty-fifth street, a new street westerly from the Boulevard Lafayette; closing and discontinuing a part of One Hundred and Sixty-fifth street, from One Hundred and Sixty-fifth street westerly and under the Boulevard Lafayette; total lengths, 1,106 feet.

The total length of streets, avenues for which maps, etc., have been made and delivered, aggregate 10,200 miles.

Area of assessment for benefit delivered equals 12,274 city lots.

The damage map for the acquisition of property for the widening and extension of Elm street is nearly completed; the last three blocks of property taken will be delivered to the Commissioners for opening early in January. The total length of the street is 5,857 feet, comprising 154 separate owners. The route of the new street being through one of the oldest parts of the city, the descriptions of titles to property in many cases, obscure, making the location of the property very difficult to find, as in many cases bounded by abutting owners only or referring to lot numbers on old maps on file or elsewhere, without dimensions, meets or bounds. Great care has been taken to avoid disputed ownerships, and to make as clear and distinct a map as possible, so as to avoid future litigation for the City.

The map of assessment for benefit has been commenced, and it will be progressed with all possible haste with the limited force at my disposal. The area to be taken will exceed 4,000 city lots.

The area of the city located between One Hundred and Sixty-fifth street and One Hundred and Eighty-first street and between the Kingsbridge road and Boulevard Lafayette, which has never been developed or laid out into streets and avenues, it is proposed to have ready in the

early spring the maps and profiles of the new streets and avenues. This work which has so long been delayed for want of funds to carry it on will be ready to submit to the owners of property in the area above named, for their acceptance and approval, and when filed by the Board of Street Opening and Improvement, will bring much valuable property directly into competition with the property on the easterly side of the Kingsbridge road, which is rapidly being built upon and developed.

Much time has been devoted to the necessary field work for the laying out of new streets, the fixing of grades, etc., to the attendance at the regular meetings of the Commissioners appointed by the Supreme Court to take testimony and open the new streets, to the meetings of the Board of Street Opening and Improvement, and to my regular duties as Assistant Engineer.

Respectfully, JOS. O. B. WEBSTER, Assistant Engineer.

#### BOARD OF CITY RECORD.

MAYOR'S OFFICE, CITY HALL, NEW YORK, April 1, 1896, 10.30 A.M.

The Hons. William L. Strong, Mayor; William L. Turner, Acting Counsel to the Corporation, and C. H. T. Collis, Commissioner of Public Works, the officers designated by section 66 of the New York City Consolidation Act, met this day.

The minutes of the meeting of March 31 were approved.

The following was presented:

NEW YORK, April 1, 1896.—To the Honorable the Board of City Record:

Your committee on the matter of printing the translations of the Dutch records desire to report that we called upon the Knickerbocker Press Company in reference to their bid for printing the translations of the Dutch records referred to. We found that the bid of the Knickerbocker Press Company was made on the basis of an estimated number of pages, and that there was no absolute assurance that the amount of the cost of the work would be within the appropriation of \$7,000 made by the Board of Estimate for that purpose.

The Knickerbocker Press Company stated that if they could have in their possession for a few days the translation of the records, a more careful and exact estimate of the cost of printing, illustrating, binding, etc., could be made. We therefore recommend that this Board authorize the Knickerbocker Press Company to take into their custody, until Tuesday next, the manuscript translation of the Dutch records now in the City Library, and that in making the contract for the publication of the work, it shall be made on the basis,

First, of the exact cost, as nearly as can be estimated, of the work of printing, illustrating and binding, including the index, and secondly that the balance of the appropriation of \$7,000, which may remain after deducting this expense, shall be definitely distributed for the other necessary expenses involved—such as typewriting, the preparation of the index, the clerical work of the Secretary, etc. And we further recommend that in all instances, including the compensation of the Secretary, a stipulated amount shall be fixed, with the understanding that the expenditure involved for these items shall not in any case exceed that amount in order that the entire work may be done without exceeding the total appropriation. To this end we advise, furthermore, that among the items an amount of not more than \$500 be set aside for contingencies.

ISAAC TOWNSEND SMITH, JOHN A. SLEICHER, Committee.

The Acting Counsel to the Corporation offered the following, which was adopted by the concurrent vote of all present:

Resolved, That, in accordance with the recommendation of the Special Committee appointed in regard to the contract for the publication of the Dutch records of the City, the City Librarian be directed to intrust to the Knickerbocker Press the volumes containing the manuscript of said Dutch records, said volumes to be left in the custody of the Knickerbocker Press until Tuesday next, April 7 instant, with the understanding that they are to be returned on that day in as good order as when they were received; and

Resolved, That, in making a contract for the publication of said records, the recommendation of the Special Committee, as reported to the Board of City Record this day, be carried out, so that the aggregate expense involved shall be definitely limited to an amount not exceeding the appropriation of seven thousand dollars made for that purpose.

The Commissioner of Public Works offered the following, which was adopted by the concurrent vote of all present:

Resolved, That the Supervisor of the City Record be directed to make application to the Boards of Civil Service of this city for a new eligible list from which to select an additional bookbinder, to be employed in the Register's Office, until further notice, at a compensation of three dollars and fifty cents per diem, and that he be directed also to employ a competent bookbinder for temporary service in the Register's Office during the ensuing thirty days, at the compensation of three dollars and fifty cents per diem.

The following requisitions were approved by concurrent vote of all present:

Council to the Corporation—Mar. 26.—To bind the Record and Guide for the months of July, August, September, October, November and December, 1895.

Bureau of Licenses—Mar. 26—3 books, 500 licenses each, hack drivers.

Department of Correction—Mar. 26—1 book for records, 300 pages.

Fire Department—Mar. 25—50 copies form of contract and specifications for furnishing 800 tons anthracite coal; Mar. 27—12 Tucker's Remington blue copying ribbons; 6 Tucker's Remington black record ribbons; 12 quires Edison mimeograph stencil paper.

Department of Buildings—Mar. 25—9 self-inking rubber stamps; 1 rubber hand stamp.

Civil Service Board—Mar. 25—2,000 medical examination sheets.

Commissioner of Street Improvements—Mar. 19—50 copies specifications and estimates, sewer One Hundred and Seventy-first street, from Vanderbilt avenue, East, to Washington avenue. Mar. 21—75 copies specifications and estimates, sewer One Hundred and Ninety-eighth street, from Webster to Jerome avenues. Mar. 24—50 copies specifications and estimates, sewers Freeman street, from Intervale avenue to Southern Boulevard; Jerome avenue, from One Hundred and Seventieth street to Belmont street; One Hundred and Sixty-eighth street, from Boston to Franklin avenues; Gerard avenue, from One Hundred and Forty-fourth street to Spuyten Duyvil and Port Morris Branch Railroad.

Department of Public Works—Mar. 18—500 specifications for regulating, grading, etc.; 500 bids for regulating, grading, etc.; 500 envelopes for regulating, grading, etc.; Mar. 23—300 each specifications, envelopes, estimates for granite block on concrete foundation; 300 each specifications, estimates and envelopes for granite block pavement on sand foundation; 500 each specifications, estimates and envelopes for asphalt pavement on present pavement; 300 each specifications, estimates and envelopes for asphalt pavement on concrete foundation; Mar. 18—Binding in book form specifications for the years 1891, 1892, 1893, 1894 and 1895, each year to be in one book.

District Attorney—Mar. 25—12 1/4 hours' work alteration brief, Stevenson; 3 3/4 hours' work alteration brief, Schooly; 22 hours' work alteration brief, Tuczkeintz. Mar. 27—50 copies brief, People vs. Putolka.

Sheriff—Mar. 25—10,000 jury notices, Supreme Court; one box Underwood's black carbon paper.

Department of Street Cleaning—Mar. 25—1,000 cards, "Printed to Pattern"; 500 copies, "Penalty Notices." Mar. 26—5,000 sheets note paper. Mar. 30—2,500 recovery reports; 2,500 transcripts for file.

Department of Public Charities—Mar. 27—Printing of 25 copies each of specifications for mason-work and materials for use in extension to Fordham Hospital and specifications of the various works and materials to be used in connection with the carpenter-work at Fordham Hospital.

Finance Department—Mar. 24—1 keg of paste for use of bookbinder; Mar. 27—500 notices of redemption of bonds for Stock and Bond Clerk.

Register's Office—Mar. 25—1 keg of paste for bookbindery.

Court of Special Sessions—2,500 memorandum slips, similar to one attached, bound in pads of 100 each.

Mayor's Office—Mar. 30—2 black Underwood's copying typewriter ribbons.

The following bills were approved by concurrent vote of all present: M. B. Brown (Voucher No. 856), \$900.13; S. J. Brown (Voucher No. 849), \$9.00; Everson & Reed (Voucher No. 850), \$12; C. H. A. Dougherty (Voucher No. 842), \$1,577.50; Thomas C. Cowell (Voucher No. 855), \$30; Martin B. Brown (Voucher No. 857), \$3,801.

THE KNICKERBOCKER PRESS, April 7, 1896. *To the Board of City Record:*

In the matter of the printing of the "Dutch records": Upon receipt of the volumes of the original sent to us, we have carefully counted the material and find that, as far as we can see, it will not vary to any appreciable extent from our original estimate of 2,880 pages of print. We may point out that the nature of this "copy" makes it exceptionally difficult to estimate, as it is written by several different hands and the method employed in writing the proper names varies.

Further than this, there are a great many interpolations which has made it necessary for us to carefully go over the full set page for page. While we should prefer, therefore, to make our estimate in the ordinary way for the printing and binding of so many pages, with the understanding that if this material exceeds this number of pages a proportionate additional charge should be made, and if it falls short of our estimate a corresponding reduction should be made, we are still ready, under the circumstances, to enter into a contract to print the volumes in accordance with the specifications already given for the amount already quoted. Please note in this connection as follows:

1. It is understood and agreed that we will undertake to print these seven volumes of "copy," to make six volumes of print, together with sixteen illustrations, volumes to be bound in sheep, as already specified, as follows:

300 sets of 6 volumes..... \$4,975 90

200 sets of 6 volumes..... 4,504 70

2. Add to this the cost of the index, with the expressed stipulation that the editor does not make this index exceed 160 pages of brevier type, and we have the cost of the index volume, bound to match the set, as follows:

300 copies..... 500 66

200 copies..... 502 64

3. This makes a total for the 7 volumes as heretofore quoted:

300 sets..... 5,536 56

200 sets..... 5,067 34

4. In this connection, it must be understood that the proper names appearing through the "copy" in connection with the law-suits, which are now written

John Doe

vs.

Richard Roe

shall be printed John Doe vs. Richard Roe, and that the signatures at the end of the petitions shall be also run in and not set as in the "copy" with each name on a line by itself.

5. It is also understood that the "copy" is to be typewritten and revised by the editor in such a way that no changes in the proof shall be called for.

6. It is further understood and agreed that we shall print off 100 additional sets of the 7 volumes for sale to the public, which sets shall be offered, bound in full sheep, at \$1.50 per volume.

7. It is further understood that we shall advertise this set in our catalogues and circulars to libraries, etc., without charge for such advertising.

THE KNICKERBOCKER PRESS, J. BISHOP PUTNAM, President.

The Secretary further reports that the appropriation made by the Board of Estimate and Apportionment for the publication of these Dutch records was the sum of \$7,000, and that this amount can be utilized for the work as follows:

Printing and binding 200 sets, as per bid of Knickerbocker Press..... \$4,564 70

Printing and binding index, one volume, as per bid of Knickerbocker

Press..... 502 64

5. The balance remaining of the appropriation of \$7,000, it is estimated, can and should be utilized as follows:

For typewriting..... \$500 00

Superintendence of literary work, including preparation of index..... 1,200 00

Miscellaneous..... 232 66

1,902 66

Total expenditure..... \$7,000 00

It is intended that the \$1,200 for superintendence shall pay for the preparation and perfecting of the typewritten manuscript, the reading and correcting of the proofs, the preparation of the index, the reading of the proofs thereof, and the performance of all the necessary work required of the reviser, proof-reader and secretary, in addition to any other clerical work that may be required by the Committee.

In contracting for the work of printing, indexing, binding and illustrating the volumes and the index, it is recommended that it be stipulated by the Corporation Counsel that the cost of the work shall not exceed the figures given in the estimate, and that it be clearly provided that if the Secretary who superintends the literary work shall order any changes, alterations or additions in the proofs, that were not required by the copy as furnished to the printer, the extra expense incurred by reason of such changes, alterations or corrections shall be paid out of the compensation of \$1,200 given to him.

In drawing the contract, an accurate list of the illustrations to be printed in the book shall be given, including a description of their size and character.

It is further recommended that the Committee shall have power from time to time, as the work progresses, to audit bills for services rendered and work performed; but that none of the money appropriated shall be paid for services rendered or work performed by any person who is a member of the Committee.

It is further recommended that when the volumes have been completed, they shall be disposed of as follows:

100 sets to be delivered upon the order of the Mayor of the City of New York to such parties as he may deem worthy of this recognition.

100 sets to be presented to institutions in the City and State of New York, to public officials, and any others entitled to the compliment, at the discretion of the Committee, subject to the approval of the Mayor.

It is further recommended that in the drafting of the contract with the Knickerbocker Press it shall be stipulated that 100 additional sets of the records be printed for public sale, on the terms offered by the contract, and that it be stipulated that the Mayor shall have the right, within 60 days from the date of making this contract, to direct the contractor to print any additional number of sets to be sold to the public at the price of \$1.50 per volume, for which he may have acceptable orders.

JOHN A. SLEICHER, Secretary.

The following communication was read:

OFFICE OF THE BOARD OF ALDERMEN, NO. 8 CITY HALL, NEW YORK, April 1, 1896. *Supervisor City Record:*

DEAR SIR—In reply to your communication of this date, notifying me of the resolution of the Board of City Record, directing me to intrust into the custody of the Knickerbocker Press the volumes of the manuscript translation of the Dutch records, the same to be returned to me on the 7th instant, in as good order as when received, permit me to state that I have accordingly instructed the Librarian to deliver these volumes to you this afternoon and to take your receipt therefor. In connection with the translating and printing of these records I desire to call your attention to the resolution of the Board of Aldermen, adopted October 8, 1895, and approved by the Mayor, October 15, 1895, authorizing a committee appointed by the Mayor, to do the work under the supervision of the Clerk of the Board of Aldermen. Since the adoption of this resolution I have received notice of an appropriation of \$7,000, made by the Board of Estimate and Apportionment, to carry out the work specified. It occurs to me, that, inasmuch as the work of such translating and printing is to be done under my supervision, and that the appropriation of the Board of Estimate and Apportionment was made to carry out the provisions of the resolution of the Board of Aldermen, directing that the work should be done under my supervision, and that I am called upon to certify any expenditures from said appropriation, no expenditures should be made except by and with the consent of the Committee and myself. This position seems to be verified by the fact that recently the Comptroller required my certification to a bill of the Secretary of said Committee for a small sum for incidental expenses. This action on the part of the Comptroller was justified, I am informed, by an opinion of the Counsel to the Corporation. Accordingly, on several occasions, I notified Mr. Charles Burr Todd, Secretary of the Committee, that the language of the resolution forced me to decline to certify any bills unless I had knowledge of the transactions of the Committee. I was informed by that gentleman that an invitation would be given me to attend the meetings of the Committee, so that I might be cognizant of the work performed by them. Up to this time, however, I have not been given an opportunity to familiarize myself with matters to which I may be called upon to certify. I desire, therefore, to respectfully notify you that I will not certify to any expenditures from the appropriation for translating and printing the old Dutch records unless I am placed in a position to acquaint myself with the requirements of such expenditures.

Respectfully yours, WM. H. TEN EYCK, Clerk of the Common Council.

(Two inclosures: Copy of resolution authorizing committee to translate, etc.; copy of resolution of Board of Estimate and Apportionment, appropriating \$7,000.)

On motion of the Counsel to the Corporation, it was decided that when the Board of City Record adjourn, it adjourn to meet on Wednesday, April 15, 1896, at 11 A.M., for the consideration of the printing of the Dutch records, and that the Clerk of the Common Council be requested to meet with the Board.

A requisition for 150 copies of the report of the Harlem River Driveway, made by the Department of Public Parks for work done in an emergency by that Department, was received, with an explanatory letter, and the Commissioner of Public Works offered the following, which was adopted by concurrent vote of all the members of the Board of City Record:

Resolved, That this Board, by concurrent vote of all its members, hereby authorizes and approves the printing of one hundred and fifty copies of the report on the Harlem River Driveway, done by the Board of Public Parks as emergency work, and that a requisition for the expenses thereof on the Board of City Record be authorized.

A requisition from the County Clerk's office for bookbinder's supplies was received, and the Supervisor reported that as the Board of Estimate and Apportionment had made an allowance of \$500 for bookbinder's materials for the County Clerk's office, for the use of the binders in repairing and binding the registers, he had declined to recommend the granting of the requisition.

On motion of the Counsel to the Corporation, the action of the Supervisor was approved.

On motion of the Commissioner of Public Works, the following was adopted by concurrent vote of all the members of the Board of City Record:

Resolved, That, pursuant to a provision of section 66 of the Consolidation Act (chapter 410, Laws of 1882, as amended in 1895), the following-named newspapers be and are hereby designated to publish during the ensuing three months, or until otherwise ordered, as required, brief advertisements calling attention to any contract intended to be awarded or bonds to be sold.

Morning—"New York Press" and "Morning Advertiser."

Afternoon—"Evening Post" and "Mail and Express."

Weekly—"The Weekly Union" and "Sunday Democrat."

German—"The Staats-Zeitung."

The following requisitions were approved by concurrent vote of all present:

Street Cleaning—Apr. 1—2,500 copies department report on slips. Apr. 2—3,000 circular notices. Apr. 7—Three boxes semi-carbon paper, 8 by 12.

Taxes and Assessments—Mar. 27—5,000 sheets each, ruled paper as per samples Nos. 1 and 2.

Fire Department—Mar. 31—1 box of Underwood's semi-carbon paper; 500 forms of applications for issue of key to fire-alarm boxes.

Finance Department—Mar. 31—4,300 "A" warrants; 2,100 "B" warrants, and 400 "C" warrants. Apr. 3—2 warrant books for Receiver of Taxes.

Public Works—Mar. 30—Binding assessment list for sewer in Twenty-third street.

District Attorney—50 copies of brief and points in People vs. Nino.

Public Parks—Feb. 27—10 file books for Meteorological Observatory. Mar. 31—75 copies contract for repairing Battery sea-wall with 50 copies of proposals; 75 copies contracts and 50 proposals for repaving Transverse Road No. 1: 100 contracts and 100 proposals for gravel; 75 copies contracts and 50 proposals for steps, etc., at One Hundred and Tenth street and Eighth avenue. Apr. 2—75 copies contracts and 50 proposals repairs to building in East River Park.

Charities—Apr. 1—75 sheets Underwood's carbon paper, 10 by 15; 100 ditto, 20 by 30; 30 sheets semicarbon, 8 by 14; 12 type-writing ribbons, purple record; 12 ditto, copying; 6 ditto, black; 6 ditto, black record.

Council to the Corporation—Mar. 6—Binding volume 89, copies of opinions of Counsel to the Corporation. Apr. 8—Binding two sets of the "Law Journal."

Correction—Apr. 9—1,000 letter heads; 2,000 envelopes No. 6.

Street Improvements, Twenty-third and Twenty-fourth Wards—Mar. 30—Print 200 copies of report of department for quarter ending December 31, 1895, and bind the same; print 200 copies of report of department for quarter ending September 30, 1895, and bind the same.

Register—April 8—Printing 500 postal cards, supplied; 2 rubber stamps.

Eleventh District Court—April 6—1 rubber stamp. The following pay-rolls were approved by concurrent vote of all present: James Shanessy (Vouchers Nos. 858 and 862), \$21 each; John McMahon (Vouchers Nos. 859 and 863), \$21 each; Joseph Fehr (Vouchers Nos. 860 and 864), \$21 each; William H. Levett (Voucher No. 861), \$21.

On motion of the Commissioner of Public Works, the following was adopted by concurrent vote of all the members of the Board:

Resolved, That the Supervisor of the City Record be and he is hereby instructed to procure, by direct order, that is without contract let after advertisement, the articles called for by the requisitions allowed, that course being deemed to be for the best interests of the City.

On motion of the Counsel to the Corporation, the meeting was adjourned.

JOHN A. SLEICHER, Secretary.

MAYOR'S OFFICE, CITY HALL, NEW YORK, April 15, 1896, 11 A. M.

The Hons. William L. Strong, Mayor; Francis M. Scott, Counsel to the Corporation, and C. H. T. Collis, Commissioner of Public Works, the officers designated by section 66 of the Consolidation Act, met this day.

The minutes of the meeting of April 13 were approved.

The report of the Secretary, regarding the publication of the translation of the Dutch records in the City Library, was received.

On motion of the Counsel to the Corporation, and by the concurrent vote of all present, it was

Resolved, That the Secretary of this Board be instructed to prepare a form of contract for the publication of the translation of the Dutch records, in accordance with the recommendations he has made to this Board, and submit the same to the Counsel to the Corporation for his approval, and subsequently to this Board for its action thereon.

On motion of the Counsel to the Corporation the Secretary was directed to transmit authenticated copies of the records of the Board of City Record showing its action in reference to the publication of the Dutch records, and a copy also, when made, of the contract for their publication.

A communication from the Comptroller was submitted by the Mayor, requesting authority to publish an abstract of the advertisement of the proposed sale of bonds and stock of the City of New York, and, on motion of the Counsel to the Corporation, the following was adopted by the concurrent vote of all present:

Resolved, That the Comptroller be authorized to publish an abstract of the advertisement of the proposed sale of Bonds and Stock of the City of New York, in the following newspapers in addition to the "designated newspapers" of this Board, to wit:

"Sun," "New York Handels-Zeitung,"

"Daily News," "Commercial and Financial Chronicle,"

"New York Herald," "American Banker,"

"The Journal," "Bond Buyer,"

"New York Tribune," "New York Times,"

"Commercial Advertiser," "Journal of Commerce," etc.

"World,"

On motion of the Commissioner of Public Works the meeting adjourned.

JOHN A. SLEICHER, Secretary.

#### FINANCE DEPARTMENT.

Abstract of transactions of the Finance Department for the week ending March 28, 1896.

Deposited in the Treasury.	
To the credit of the Sinking Fund.....	\$80,131 79
City Treasury.....	1,248,500 85
Total.....	\$1,328,692 65
Bonds and Stock Issued.	
Three per cent. Bonds.....	300,000 00
Three and one-half per cent. Bonds.....	750,000 00
Three per cent. Stock.....	6,000 00
Total.....	\$1,056,000 00
Warrants Registered for Payment.	
The Common Council—	\$51 70
The Finance Department—	
Cleaning Markets.....	\$773 00
Contingencies—Comptroller's Office.....	544 12
Interest on the City Debt.....	1,317 72
The Aqueduct Commission—	310,700 00
Additional Water Fund.....	3,533 32
The Law Department—	340 60
The Department of Public Works—	
Aqueduct—Repairs, Maintenance and Strengthening....	\$17,068 50
Additional Water Fund.....	13,175 61
Bridge over Harlem River, between First and Willis Aves.	30 00
Bridge over Harlem River at Third	

The Department of Public Parks—	
Maintenance and Construction of New Parks North of Harlem River.....	\$390 32
Maintenance and Government of Parks and Places.....	11,806 72
Mount Morris Park—Construction of.....	367 50
Mulberry Bend Park, Construction of.....	12 32
Public Driveway, Construction of.....	12 62
Resurfacing Walks—Parks south of Fifty-ninth street.....	286 06
Telephone Service.....	4,300 00
The Department of Street Improvements, 23d and 24th Wards—Bridges Crossing the N. Y. & H. R. Depression.....	\$117 75
Bronx River and other Bridges—Repairs and Maintenance of Maintenance—23d and 24th Wards.....	25 37
Making Rock Soundings, Boring, etc.....	2431 79
Monumenting Avenues and Streets.....	251 00
Sewers and Drains—23d and 24th Wards.....	36 00
Street Improvement Fund, June 15, 1886.....	7,656 75
Surveying, Laying-out, Maps, Plans, etc.....	230 18
Telephonic Service and Contingencies.....	42 17
Williamsbridge Sewer Fund.....	28 00
The Department of Public Charities and Correction—Public Charities and Correction.....	4,555 32
The Department of Public Charities—Department of Public Charities.....	15,963 24
The Department of Correction—Department of Correction.....	12,662 74
The Health Department—For Bacteriological Laboratory.....	\$164 07
For Burial of Honorably Discharged Soldiers, Sailors and Marines.....	70 00
Health Fund—For Contingent Expenses.....	259 29
Health Fund—For Disinfection Hospital Fund—Hospital Supplies, Improvements, Care and Maintenance of Buildings and Hospitals on North Brother Island.....	111 28
Revenue Bond Fund—Health Department, Expenses of Preserving Health of City.....	632 63
The Department of Street Cleaning—Cleaning Streets—Department of Street Cleaning.....	\$58,180 64
Department of Street Cleaning—New Stock.....	450 00
Street Incumbrances—Department of Street Cleaning.....	4 50
	58,635 14
	Total.....
	\$623,147 60

## Suits, Orders of Court, Judgments, Etc.

COURT.	NAME OF PLAINTIFF.	AMOUNT.	NATURE OF ACTION.	ATTORNEY.
Supreme.	Edward Gustaveson, Benjamin F. Tuthill and another, ex'r's.	\$140 04	Transcripts of judgments, as follows:	O. F. G. Megie.
City.	American Book Co. against the Normal College, City of New York.....	162 38	Transcript of judgment.....	C. N. Judson.
Supreme.	The People ex rel. Ella Rawls against Ashbel P. Fitch, Comptroller.....	129 22	Certified copy order for mandamus directing payment to the relator of amount claimed to be due for services as Stenographer, etc.....	D. M. Porter.
"	In matter of the petition of John Tiebout.....		Notice of motion to vacate assessment on his property for Stanton st. paving, from Cannon st. to Tompkins st.....	Parker & Scudder.
"	William E. Lynn against The Mayor, etc., impleaded with Patrick J. Gallagher, Charles S. Kendall, Franklin Lee and others.....		Notice of pendency of action and copy answer of defendants, Kendall & Lee.....	Eustis, Foster & Coleman.
"	Thomas Dwyer, assignee of Patrick McKenna.....	540 00	Summons and complaint. For balance claimed to be due under contract of said McKenna for constructing sewer in 10th st. bet. Boulevard and West End ave.....	E. H. Hawke, Jr.
"	Elijah M. Purdy and others.....	316 78	Order reducing assessments for 10th st. outlet sewer, from 5th ave. to Harlem river, on petition of following-named parties:	J. C. Shaw.
"	Arthur J. Peabody, Estate of Pliny Freeman, deceased.....	308 26		"
"	Warren Ferris.....	315 01		"
"	John W. Healy.....	344 36		"
"	William C. Traphagan.....	390 42		"
"	George M. Groves.....	415 15		"
"	Anna L. Coston.....	704 58		"
"	Nathalie F. Reynal.....	958 81	Transcripts of judgments, as follows:	
"	Walter R. White.....	2,219 66	Summons and complaint for damages for injuries sustained by accumulation of surface water, sewerage, etc., near and around his premises, at 21st st. and 9th ave., owing to negligence of contractor employed by City in the work of regulating, etc., 9th ave., from 20st st. to Kingsbridge rd. Notices of motion to confirm report of Commissioners in following matters, viz.:	T. Darlington.
"	Opening 26th st. bet. 10th ave. and United States Channel line, Harlem river.....	1,934 81		F. M. Scott, Corporation Counsel.
"	Opening 24th st. bet. 10th ave. and United States Channel line, Harlem river.....	2,000 00		F. M. Scott, Corporation Counsel.

## CONTRACTS REGISTERED FOR THE WEEK ENDING SATURDAY, MARCH 28, 1896.

NO.	DATE OF CONTRACT.	DEPARTMENT.	NAME OF CONTRACTORS.	NAME OF SURETIES.	AMOUNT OF BOND.	DESCRIPTION OF WORK.	COST.
25505	Mar. 13 1896.	Public Works.....	Thomas Callanan.....	Wm. F. Cunningham, Edward C. Sheehy.....	\$2,000 00	Sprinkling with sand the carriageway of 5th ave., from 26th to 59th st.....	\$7,500 00
25506	" 19	Docks.....	William C. Moquin.....	Mark Ash, Peter Alexander.....	1,200 00	Furnishing and delivering about 700 tons of anthracite coal.....	Estimate
25507	" 25	Commissioner of Street Improvements, 23d and 24th Wards (Bond).....	T. H. McLaughlin.....	Chas. A. Bernhardt.....	620 00	Constructing receiving-basins and appurtenances on the southeast cor. of Jerome ave. and E. 16th st., and on the northeast and southeast cor. of Jerome ave. and McClellan st.....	2,500 00
25508	Jan. 2	Public Parks.....	The Metropolitan Telephone and Telegraph Co.....	Horace W. Chipman, Wm. H. Woolverton.....	2,000 00	Furnishing telephone service for the year 1896.....	620 00
25509	" 23	Public Charities.....	The N. Y. & N. J. Produce Co.....	John Fleming, James McKenna.....	2,100 00	Furnishing and delivering 5,300 barrels of white potatoes.....	Total
25510	Mar. 10	"	The National Distributing Co.....	Isaac Sommers, Carl Adler.....	4,000 00	Furnishing and delivering 3,200 wine gallons of grain alcohol.....	4,081 00
25511	" 10	Correction.....	Julius Harberger.....	Henry Frank, Robert J. Gerstle.....	866 50	Furnishing and delivering 10,000 pounds good damaged sole leather and 1,800 pounds offal leather.....	7,628 80
25512	" 26		Max Frank.....	Jacob Fleischhauer.....	2,000 00	Furnishing and delivering 10,000 pounds sole leather, 2,400 feet waxed kip leather, 6,500 feet waxed upper leather.....	1,733 00
			Jacob Fleischhauer.....				2,286 62

## Opening of Proposals.

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

March 24. The Department of Street Improvements, 23d and 24th Wards—For furnishing and delivering broken Tompkin's Cove blue stone, and broken trap-rock stone, also for regulating, grading, etc., and for construction of sewers in the several streets and avenues enumerated in the advertisement of said Department dated March 10, 1896, published in the CITY RECORD.

March 25. The Department of Street Cleaning—For furnishing 941,304 pounds of hay, 35,326 pounds of straw, 1,804,160 pounds of oats, 4,000 pounds of oil meal, 6,000 pounds of rock salt, 2,300 pounds of coarse salt, 97,586 pounds of bran, and 6,000 pounds of oatmeal.

## Approval of Sureties.

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

March 23. For furnishing the Department of Street Cleaning with one Delehardt self-propelling automatic dumper; Lewis Nixon, No. 23 East 24th st., Principal; American Surety Co., No. 100 Broadway, William E. Keyes, No. 100 Broadway, Sureties.

March 23. For furnishing the Department of Public Charities with lumber; American Lumber Co., First ave. and 28th st., Principal; American Surety Co., No. 100 Broadway, William E. Keyes, No. 100 Broadway, Sureties.

March 23. For furnishing the Department of Public Works with 500 cords of first growth pine

wood ; Cornelius Daly, No. 435 West 34th street, Principal ; Samuel Booth, No. 340 West 33d street, James M. Hillery, No. 252 West 34th street, Sureties.

March 23. For furnishing cast-iron water pipes, branch pipes and special castings ; Reading Foundry Company, Limited, Reading, Pa., Principal ; Michael J. Mahoney, No. 126 West 87th st., Michael Drummond, No. 148 West 76th st., Sureties. Camden Iron Works, Camden, N. J., Principal ; American Surety Company, No. 100 Broadway, Henry D. Lyman, No. 100 Broadway, Sureties.

March 24. For furnishing the Department of Public Works with stop-cocks, etc. ; M. J. Drummond, No. 148 West 76th st., Principal ; Michael J. Mahoney, No. 126 West 87th st., John Keresey, No. 52 Stone st., Sureties.

March 24. For furnishing the Department of Public Charities with miscellaneous dry goods ; Mark A. Mayer, No. 361 Broadway, Principal ; Albert Seligmann, No. 248 Fulton st. ; Michael Dryfoos, No. 13 White st., Sureties.

March 25. For furnishing the Fire Department with hose wagons ; Gleason and Bailey Manufacturing Company, No. 187 Mercer st., Principal ; Elliott P. Gleason, No. 20 West Houston st., Olin F. Gleason, No. 20 West Houston st., Sureties.

March 25. For furnishing the Department of Public Works with 150,000 gallons of paving cement ; Henry G. Homer, No. 10 Lefferts place, Brooklyn, Principal ; Michael F. Wynn, No. 314 East 120th st., William S. Wynn, No. 825 Park ave., Sureties.

March 26. For regulating, paving, etc., Railroad ave., West, from 162d to 165th street ; Daniel O'Connell, No. 557 Morris ave., Principal ; Dennis W. Moran, No. 219 East 71st st., James O'Connell, No. 31 East 106th st., Sureties.

March 26. For regulating, grading, etc., Vanderbilt ave., East, from the ward line to East 177th st. ; George Clark, No. 3690 Third ave., Principal ; John Keresey, No. 85 Pearl st., M. J. Drummond, No. 148 West 76th st., Sureties.

March 27. For furnishing the Department of Public Works with 15,000 cubic yards of sand ; Murray & Reed, No. 154 East 38th st., Principals ; Cornelius Gallagher, Times Building, James F. Boyle, No. 676 Second ave., Sureties.

#### Official Designation.

March 27. Richard A. Storrs, Deputy Comptroller, to act as Comptroller on March 28, 1896.

RICHARD A. STORRS, Deputy Comptroller.

#### DEPARTMENT OF CORRECTION.

REPORT OF TRANSACTIONS, MARCH 23 TO 28, 1896.

##### Communications Received.

From Penitentiary—List of prisoners received during week ending March 21, 1896 : Males, 24 ; Females, 1. On file.

List of 32 prisoners to be discharged from March 29 to April 4, 1896. Transmitted to Prison Association.

From City Prison—Amount of fines received during week ending March 21, 1896, \$51. On file.

From Heads of Institutions—Reporting meats, milk, fish, etc., received during week ending March 21, 1896, of good quality and up to the standard. On file.

From Fifth District Prison—Reporting the escape and recapture of John Dolan, prisoner. On file.

From City Cemetery—List of burials during week ending March 21, 1896. On file.

From Department of Public Charities—Asking that Warden of Penitentiary be authorized to make such repairs to ambulance as may be necessary. Approved.

From General Storekeeper—Rejecting lumber furnished under contract, it being of poor quality. Approved.

##### Contract Awarded.

Max Frank, 10,000 pounds sole leather, at \$0.1370 per pound ; 2,400 feet waxed kip leather, at \$0.1073 per pound ; 6,500 feet waxed upper leather, at \$0.1014 per pound.

##### Appointed.

March 24—Frederick Jarvis, Clerk, Storehouse, salary, \$120 per annum. March 25—Rudolph Unger, Keeper, Penitentiary, salary, \$700 per annum ; William A. Dalton, Keeper, Penitentiary, salary, \$700 per annum.

##### Appointed Temporarily.

From March 15—Richard Lyons, Engineer, Steamboats, salary, \$700 per annum. From March 28—Mabel J. Brown, Orderly, Workhouse, salary, \$300 per annum.

ROBERT J. WRIGHT, Commissioner.

#### HEALTH DEPARTMENT OF THE CITY OF NEW YORK.

WEEK ENDING SATURDAY, 12 M., APRIL 11, 1896.

Estimated Population, 1,921,945.

Death-rate, 25.60.

##### Cases of Infectious and Contagious Diseases Reported.

	WEEK ENDING—													
	Jan. 11.	Jan. 18.	Jan. 25.	Feb. 1.	Feb. 8.	Feb. 15.	Feb. 22.	Feb. 29.	Mar. 7.	Mar. 14.	Mar. 21.	Mar. 28.	Apr. 4.	
Phthisis.....	105	125	173	99	97	84	88	130	102	118	218	293	155	230
Diphtheria.....	269	314	255	265	288	252	219	244	199	192	184	215	103	220
Croup.....	6	13	5	4	6	5	2	4	3	7	13	16	9	16
Measles.....	287	333	430	394	432	518	479	523	441	569	425	573	434	490
Scarlet Fever.....	156	214	195	142	149	147	127	116	115	153	136	123	113	117
Small-pox.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Typhoid Fever.....	13	3	12	8	7	12	7	6	10	10	8	15	3	3
Typhus Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total.....	836	1,003	1,073	912	981	1,013	927	1,024	866	1,040	988	1,228	889	1,130

Marriages reported.....	335	Burial permits issued.....	943
Births ".....	1,070	Transit permits issued.....	13
Deaths ".....	943	Searches made.....	319
Still-births ".....	63	Transcripts issued.....	266

##### Deaths According to Cause, Age and Sex.

	Total.	Total last year.	Average to years.	Males.	Females.	Under 1 Month.	1 Month and under 1 Year.	1 Year and under 2.	2 and under 5.	Under 5 Years.	5-15.	15-25.	25-45.	45-65.	65 and over.	
Total, all causes.....	943	892	1050.7	505	438	62	145	75	86	368	29	58	192	196	100	
Diphtheria.....	30	34	39.8	10	20	..	3	6	17	26	4	..	..	..	..	..
Croup.....	5	7	16.5	4	1	..	1	4	5	..	..	..	..	..	..	..
Malarial Fevers.....	1	..	3.3	..	1	..	..	1	1	..	..	..	..	..	..	..
Measles.....	28	11	15.9	16	12	..	13	4	9	26	2	..	..	..	..	..
Scarlet Fever.....	7	10	27.0	3	4	..	..	1	4	5	2	..	..	..	..	..
Small-pox.....	..	..	2.0	..	..	..	..	..	..	..	..	..	..	..	..	..
Typhoid Fever.....	..	3	4.7	..	..	..	..	..	..	..	..	..	..	..	..	..
Typhus Fever.....	..	..	1.8	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping Cough.....	12	15	15.1	8	4	..	5	3	3	11	1	..	..	..	..	..
Diarrhoeal Diseases.....	21	6	18.0	9	12	..	12	2	2	16	..	..	..	..	..	3
Phthisis.....	109	105	135.0	67	42	..	1	1	1	3	2	20	60	19	5	
Other Tuberculous Diseases.....	23	35	..	10	18	..	10	6	5	21	3	2	1	1	10	10
Diseases of Nervous System.....	64	77	93.1	35	29	6	11	6	7	30	..	4	6	14	10	10
Heart Diseases.....	60	44	54.7	28	47	..	1	1	1	3	..	2	21	25	19	19
Bronchitis.....	48	49	53.7	25	23	5	21	9	6	41	..	..	..	..	..	16
Pneumonia.....	200	172	186.1	113	87	..	30	30	19	79	9	13	39	50	30	
Other Diseases of Respiratory Organs.....	15	13	..	9	6	..	..	3	3							

## Analytical Work—Summary.

Milk—Unadulterated . . . . .	6
" Adulterated . . . . .	2
Croton water—Partial sanitary analysis . . . . .	2
" Complete sanitary analysis (see below) . . . . .	2
Cellar water—Character, underground water . . . . .	1
Candy—Poisonous metals, negative . . . . .	2
Rabbits' hair (fertilizer)—Acids, 0.98 per cent. sulphuric acid . . . . .	1

## Experimental Analyses.

Estimation of phosphates in waters . . . . .	7
" nitrates in water . . . . .	5
Testing standard solutions . . . . .	2
Nitrogen—Determination in food . . . . .	2

## Analysis of Croton Water, April 10, 1896.

Appearance, very turbid; color, light yellowish brown; odor, marshy.

	RESULTS EXPRESSED IN GRAINS PER U. S. GALLON OF 231 CUBIC INCHES.	RESULTS EXPRESSED IN PARTS BY WEIGHT IN ONE HUNDRED THOUSAND.
Chlorine in Chlorides . . . . .	0.153	0.262
Equivalent to Sodium Chloride . . . . .	0.252	0.433
Phosphates, Phosphoric Acid ( $P_2O_5$ ) in . . . . .	None.	None.
Nitrogen in Nitrates . . . . .	None.	None.
Nitrogen in Nitrates (Method of Martin and Berry) . . . . .	0.0257	0.0440
Free Ammonia . . . . .	0.0009	0.0015
Albuminoid Ammonia . . . . .	0.0143	0.0245
Total Nitrogen . . . . .	0.0381	0.0654
Hardness equivalent to Carbonate of Lime (Before boiling . . . . .	1.84	3.16
" (After boiling) . . . . .	1.84	3.16
Organic and volatile (loss on ignition) . . . . .	1.233	2.20
Mineral matter (non-volatile)—Lost Carbonic Acid not restored . . . . .	4.549	7.80
Total solids (by evaporation, at 230° Fahr.) . . . . .	5.832	10.00

Temperature at hydrant, 40° Fahr.

## Infectious and Contagious Diseases.

Total number of cases visited by Inspectors . . . . .	1,810
" premises visited by Disinfectors . . . . .	330
" rooms disinfected . . . . .	572
" other places disinfected . . . . .	375
" pieces of infected goods destroyed . . . . .	1,041
" pieces of infected goods disinfected and returned . . . . .	32
" persons removed to hospital . . . . .	436
" primary vaccinations . . . . .	1,575
" revaccinations . . . . .	780
" certificates of vaccination issued . . . . .	249
" cattle examined by Veterinarian . . . . .	256
" glandered horses destroyed . . . . .	83

## Pathology, Bacteriology and Disinfection.

Total number of premises visited by Inspectors . . . . .	1,810
" autopsies (human & animal) . . . . .	330
" bacteriological examinations, general . . . . .	572
" bacteriological examinations of suspected diphtheria (true 121, pseudo 62, indecisive 32, viz.: Culture made too late in disease 11, insufficient growth on culture medium 7, culture medium contaminated 5, culture medium dried up 2, suspicious bacilli only found 7, no diphtheria bacilli were found, laryngeal case 0) . . . . .	375
" bacteriological examinations of convalescent cases of diphtheria, preceding disinfection . . . . .	1,041
" bacteriological examinations of healthy throats in infected families . . . . .	32
" bacteriological examinations of suspected tuberculosis (tubercle bacilli found 17, not found 11) . . . . .	436
" points of vaccine virus collected . . . . .	1,575
" capillary tubes of vaccine virus filled . . . . .	780
Amount of anti-toxine serum produced in c. c . . . . .	249
Total number of dead animals removed from streets . . . . .	256

## Executive Action.

Total number of orders issued for abatement of nuisances . . . . .	2,615
" Attorney's notices issued for non-compliance with orders . . . . .	446
" civil actions begun . . . . .	52
" arrests made . . . . .	6
" judgments obtained in civil courts . . . . .	5
"    " criminal courts . . . . .	4
" permits issued . . . . .	976

The 943 deaths represent a death-rate of 25.60, against 25.04 for the previous week and 23.13 for the corresponding week of 1895.

Contagious and infectious diseases show a marked increase, the number of cases reported of diphtheria, measles, scarlet fever, typhoid fever and small-pox being respectively 220, 490, 117, 3 and 0, against 163, 434, 113, 15 and 0 for the previous week, a total of 830 against 725. The increase of diphtheria was mainly in the Tenth, Twelfth and Nineteenth Wards, and the decrease in the Eighteenth and Twenty-second Wards. The increase of measles was most marked in the Twelfth and Nineteenth Wards, and the decrease in the Seventh and Twenty-third Wards. The increase of scarlet fever was chiefly in the Twenty-fourth Ward, and the decrease in the Seventh and Twelfth Wards. Two of the cases of typhoid fever were above Fortieth street, and 1 was below Fourteenth street. No case of small-pox was reported.

By order of the Board.

EMMONS CLARK, Secretary.

## DEPARTMENT OF BUILDINGS.

Operations for the week ending April 11, 1896:

Plans filed for new buildings, 87; estimated cost, \$1,416,930; plans filed for alterations, 57; estimated cost, \$252,775; buildings reported for additional means of escape, 52; other violations of law reported, 83; buildings reported as unsafe, 104; fire-escape notices issued, 64; violation notices issued, 100; unsafe buildings notices issued, 150; fire-escape cases forwarded for prosecution, 16; violation cases forwarded for prosecution, 79; unsafe building cases forwarded for prosecution, 1; complaints lodged with the Department, 147; iron beams, columns, girders, etc., tested, 2,552.

STEVENSON CONSTABLE, Superintendent of Buildings.

WILLIAM H. CLASS, Chief Clerk.

## APPROVED PAPERS.

Resolved, That the resolution adopted October 29, 1895, and approved November 7, 1895, to lay Croton water-mains in Dawson street, from Westchester avenue to Leggett avenue, be and the same is hereby annulled, rescinded and repealed.

Adopted by the Board of Aldermen, March 31, 1896. Approved by the Mayor, April 4, 1896.

Resolved, That Nathan Grabenheimer, of Forty-fifth street and First avenue, be and he is hereby appointed a Commissioner of Deeds in and for the City and County of New York, in the place of Thomas Boylan whose term of office has expired.

Resolved, That Gardner H. O'Donnell, of No. 113 East Thirty-first street, be and he is hereby appointed a Commissioner of Deeds in and for the City and County of New York, in the place of John Braden whose term of office has expired.

Adopted by the Board of Aldermen, April 7, 1896.

## EXECUTIVE DEPARTMENT.

Pursuant to statutory requirement, notice is hereby given that an act has been passed by both branches of the Legislature, entitled and worded as follows:

AN ACT to amend chapter 553 of the Laws of 1895, entitled "An act in relation to the Supreme Court in the First Judicial District and the Appellate Division thereof in the First Department."

Further notice is hereby given that a public hearing upon such bill will be held at the office of the Mayor, in the City Hall, in the City of New York, on Monday, April 20, 1896, at 1.30 P.M.

Dated CITY HALL, NEW YORK, April 14, 1896.

Pursuant to statutory requirement, notice is hereby given that an act has been passed by both branches of the Legislature, entitled and worded as follows:

AN ACT to amend section 1,580 of chapter 410 of the Laws of 1882, entitled "An act to consolidate into one act and to declare the special and local laws affecting public interests in the City of New York" relative to the receipt and disposition of fines imposed by the Court of Special Sessions.

Further notice is hereby given that a public hearing upon such bill will be held at the office of the Mayor, in the City Hall, in the City of New York, on Monday, April 20, 1896, at 1 o'clock P.M.

Dated CITY HALL, NEW YORK, April 14, 1896.

Pursuant to statutory requirement, notice is hereby given that an act has been passed by both branches of the Legislature, entitled and worded as follows:

AN ACT to improve and add to the building situated in Crotona Park, in the City of New York, the construction of which was authorized by chapter 248 of the Laws of 1894.

Further notice is hereby given that a public hearing upon such bill will be held at the office of the Mayor, in the City Hall, in the City of New York, on Monday, April 20, 1896, at 2.30 P.M.

Dated CITY HALL, NEW YORK, April 14, 1896.

## OFFICIAL DIRECTORY.

Mayor's Office—No. 6 City Hall, 9 A.M. to 5 P.M., Saturdays, 9 A.M. to 12 M.

Mayor's Marshal's Office—No. 1 City Hall, 9 A.M. to 4 P.M.

Commissioners of Accounts—Stewart Building, 9 A.M. to 4 P.M.

Aqueduct Commissioners—Stewart Building, 5th floor, 9 A.M. to 4 P.M.

Board of Armory Commissioners—Stewart Building, 9 A.M. to 4 P.M.; Saturdays, 9 A.M. to 12 M.

Clerk of Common Council—No. 8 City Hall, 9 A.M. to 4 P.M.

Department of Public Works—No. 31 Chambers street, 9 A.M. to 4 P.M.

Department of Street Improvements, Twenty-third and Twenty-fourth Wards—No. 2622 Third avenue, 9 A.M. to 4 P.M.; Saturdays, 12 M.

Department of Buildings—No. 220 Fourth avenue, 9 A.M. to 4 P.M.

Comptroller's Office—No. 15 Stewart Building, 9 A.M. to 4 P.M.

Auditing Bureau—Nos. 19, 21 and 23 Stewart Building, 9 A.M. to 4 P.M.

Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents—Nos. 31, 33, 35, 37 and 39 Stewart Building, 9 A.M. to 4 P.M. No money received after 2 P.M.

Bureau for the Collection of City Revenue and of Markets—Nos. 1 and 3 Stewart Building, 9 A.M. to 4 P.M. No money received after 2 P.M.

Bureau for the Collection of Taxes—Stewart Building, 9 A.M. to 4 P.M. No money received after 2 P.M.

City Chamberlain—Nos. 25 and 27 Stewart Building, 9 A.M. to 4 P.M.

City Paymaster—Stewart Building, 9 A.M. to 4 P.M.

Council to the Corporation—Staats-Zeitung Building, 9 A.M. to 5 P.M.; Saturdays, 9 A.M. to 12 M.

Public Administrator—No. 119 Nassau street, 9 A.M. to 4 P.M.

Corporation Attorney—No. 119 Nassau street, 9 A.M. to 4 P.M.

Attorney for Collection of Arrears of Personal Taxes—Stewart Building, 9 A.M. to 4 P.M.

Bureau of Street Openings—Emigrant Industrial Savings Bank Building, Nos. 49 and 51 Chambers street.

Police Department—Central Office, No. 300 Mulberry street, 9 A.M. to 4 P.M.

Board of Education—No. 146 Grand street.

Department of Charities—Central Office, No. 66 Third avenue, 9 A.M. to 4 P.M.

Department of Correction—Central Office, No. 66 Third avenue, 9 A.M. to 4 P.M.

Fire Department—Headquarters, Nos. 157 to 159 East Sixty-seventh street, 9 A.M. to 4 P.M.; Saturdays, 12 M.

Central Office open at all hours.

Health Department—New Criminal Court Building, Centre street, 9 A.M. to 4 P.M.

Department of Public Parks—Arsenal, Central Park, Sixty-fourth street and Fifth avenue, 10 A.M. to 4 P.M.; Saturdays, 12 M.

Department of Docks—Battery, Pier A, North river,

fuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet, as provided by law.

*Bidders are cautioned to examine the specifications for particulars of the articles, etc., required before making their estimates.*

Bidders will state the price for each article, by which the bids will be tested.

Bidders will write out the amount of their estimate in addition to inserting the same in figures.

Payment will be made by a requisition on the Comptroller, in accordance with the terms of the contract, or from time to time, as the Commissioners may determine.

The form of the contract, including specifications, showing the manner of payment, will be furnished at the office of the Department, and bidders are cautioned to examine each and all of its provisions carefully, as the Board of Public Charities will insist upon its absolute enforcement in every particular.

Dated NEW YORK, April 9, 1896.

SILAS C. CROFT, President; JOHN P. FAURE and JAMES R. O'BIRNE, Commissioners, Department of Public Charities.

#### STREET CLEANING DEPT.

DEPARTMENT OF STREET CLEANING, NEW YORK, April 15, 1896.

**SEALED PROPOSALS WILL BE RECEIVED** at the office of the Department of Street Cleaning, No. 32 Chambers street, for the final disposition of all ashes, street sweepings, garbage and other refuse and rubbish delivered at the various dumps or dumping-places of the Department by carts of the Department, and all other carts duly authorized to collect the same, until 12 o'clock A.M. of Monday, April 27, 1896, pursuant to the provisions of section 709 of chapter 410 of the Laws of 1882.

Three forms of contract will be offered for proposals, to wit:

No. 1. For the final disposition of all ashes, street sweepings, garbage and other refuse and rubbish.

No. 2. For the final disposition of garbage, containing not more than ten per cent by weight of ashes or other refuse.

No. 3. For the final disposition of ashes, street sweepings and other refuse and rubbish, exclusive of garbage containing not more than ten per cent, by weight of ashes or other refuse.

Separate proposals will be received for each of the foregoing forms of contract.

Forms of proposals, specifications, and contracts may be seen and obtained at the office of the Department. The term of the said contracts shall be the period of five years commencing on the 1st day of August, 1896.

At the hour, place and date first above-mentioned, the Commissioner of Street Cleaning will publicly open and read the said proposals.

Each proposal shall be accompanied with a thorough and complete description of the method or methods to be pursued by the bidder in the transportation and disposition of the refuse or other material provided for in said contract; said description shall be accompanied by complete maps, plans and specifications. Such maps, plans and specifications must be sufficient to set forth the process to be used, the manner of obtaining results, the results to be secured, and, approximately, the locality or localities where the same is to be carried on.

Refuse to be disposed of in such manner only as will render it unobjectionable in any and every respect, but no part thereof, except purified liquid effluent, or purified residuum, approved by the Board of Health of the City of New York, shall be dumped in the waters of New York Harbor, or in the waters adjacent thereto, or in the Atlantic Ocean.

No estimate will be received or considered after the hour mentioned.

Bidders will write out the amount of their estimates in addition to inserting the same in figures.

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

Any person making an estimate for either of the above contracts shall present the same in sealed envelope directed to said Commissioner of Street Cleaning, at his office, on or before the day and hour first above-named, which envelope shall be indorsed with the name or names of the person or persons representing the same, the date of its presentation, and a statement of the work to which it relates.

The Commissioner of Street Cleaning reserves the right to reject any or all bids or estimates if deemed to be for the public interest.

No bid or estimate will be accepted from or contract awarded to any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Bidders are hereby notified that in awarding a contract the Commissioner of Street Cleaning will, in addition to other matters which may be properly considered, take into consideration the following:

The character, economy and efficiency of the plant and method to be used, the location of the plant and generally all that concerns the interests of the City of New York with a view to the length of time of the continuance of the contract, such as the chances of injunction upon application of the neighboring population; chances of financial failure, and the adequacy of the method and plan proposed to be part of the work all of the time, except when obstacles to transportation may prevent the delivery of the normal amount of refuse, and then its adequacy to dispose promptly of the additional quantity accumulated.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same, the names of all persons interested with him or them therein, and if no other person be so interested, it shall distinctly state that fact; 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 Common Council, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or in the work 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 therein are in all respects true. Where more than one person is interested it is requisite that the verification be made and subscribed by all the persons interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two or more householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, upon its being so awarded, become bound as sureties for its faithful performance in the sum of \$200,000; and that if he shall omit or refuse to execute the same they will pay to the Corporation any difference between the sum to which he would be entitled upon its completion and to the person or persons to whom the contract shall be awarded at any subsequent letting, the amount to be calculated upon the estimated amount of the work by which the bids are tested. The consent above-mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York.

of New York, and is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety, or otherwise, and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law.

The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York before the award is made and prior to the signing of the contract.

No estimate will be considered unless accompanied by either a certified check upon one of the banks of the City of New York, drawn to the order of the Comptroller, or money for five per cent of the amount for which the work bid for is proposed, in any one year to be performed. Such check or money must be inclosed in the sealed envelope containing the estimate.

All such deposits except that of the successful bidder will be returned to the person making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of the deposit will be returned to him.

The COMMISSIONER OF PUBLIC WORKS RESERVES THE RIGHT TO REJECT ALL BIDS RECEIVED FOR ANY PARTICULAR WORK IF HE DEEMS IT FOR THE BEST INTERESTS OF THE CITY.

Blank forms of bid or estimate, the proper envelopes in which to inclose the same, the specifications and agreements, and any further information desired, can be obtained at Room No. 15, No. 31 Chambers street.

CHARLES H. T. COLLIS, Commissioner of Public Works.

#### NOTICE TO PROPERTY-OWNERS, BUILDERS, FLAGGERS AND OTHERS.

**NOTICE IS HEREBY GIVEN THAT THE** practice of placing concrete or other friable curbs on the streets of this city is in contravention of chapter 6, Article 7, section 105, Revised Ordinances of 1880, which reads: "All curb-stones \*\*\* shall be of the best hard blue or gray granite." And this Department will find it necessary to prosecute to the full penalty imposed by law persons setting or making such curbs, whether they have broken up or removed the curb-stones provided by the City or not.

Further notice is given that this Department will in no case entertain claims for damages to concrete or other artificial sidewalls that are caused by repair or setting of hydrants, or by other work which the City does for the general good.

CHARLES H. T. COLLIS, Commissioner of Public Works.

#### TAXES AND ASSESSMENTS.

CITY OF NEW YORK, DEPARTMENT OF TAXES AND ASSESSMENTS, STEWART BUILDING, NO. 280 BROADWAY, NEW YORK, January 13, 1896.

**IN COMPLIANCE WITH SECTION 817 OF THE** New York City Consolidation Act of 1882, notice is hereby given that the books of "The Annual Record of the Assessed Valuation of Real and Personal Estate" of the City and County of New York, for the year 1896, are open and will remain open for examination and correction until the 30th day of April, 1896.

All persons believing themselves aggrieved must make application to the Commissioners of Taxes and Assessments, at this office, during the period said books are open, in order to obtain the relief provided by law.

Applications for correction of assessed valuations on personal estate must be made by the person assessed to the said Commissioners, between the hours of 10 A.M. and 2 P.M., except on Saturdays, when between 10 A.M. and 12 M., at this office, during the same period.

EDWARD P. BARKER, THEODORE SUTRO, JAMES L. WELLS, Commissioners of Taxes and Assessments.

#### DEPARTMENT OF DOCKS.

TO CONTRACTORS. (No. 532). PROPOSALS FOR ESTIMATES FOR DREDGING AT AND IN SHERMAN'S CREEK, ON THE HARLEM RIVER.

**E**STIMATES FOR DREDGING AT AND IN Sherman's Creek, on the Harlem river, will be received by the Board of Commissioners at the head of the Department of Docks, at the office of said Department, on Pier "A," foot of Battery place, North river, in the City of New York, until 12 o'clock M.

TUESDAY, APRIL 21, 1896, at which time and place the estimates will be publicly opened by the head of said Department. The award of the contract, if awarded, will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall furnish the same in a sealed envelope to Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which it relates.

The bidder to whom the award is made shall give security for the faithful performance of the contract, in the manner prescribed and required by ordinance, in the sum of Thirteen Thousand Dollars.

The Engineer's estimate of the quantities of material necessary to be dredged is as follows:

Mud and Sand Dredging, about . . . . . 160,000 cubic yards.

N.B.—Bidders are required to submit their estimates upon the following express conditions, which shall apply to and become a part of every estimate received:

1st. Bidders must satisfy themselves, by personal examination of the location of the proposed dredging and by such other means as they may prefer, as to the accuracy of the foregoing Engineer's estimate, and shall not at any time after the submission of an estimate dispute or complain of the above statement of quantities, nor assert that there was any misunderstanding in regard to the nature or amount of the work to be done.

2d. Bidders will be required to complete the entire work to the satisfaction of the Department of Docks, and in substantial accordance with the specifications of the contract. No extra compensation beyond the amount payable for the work before mentioned, which shall be actually performed at the price therefor per cubic yard, to be specified by the lowest bidder, shall be due or payable for the entire work.

The work to be done under this contract is to be commenced within five days after receiving a notification from the Engineer-in-Chief of the Department of Docks that any part or portion of the dredging therein mentioned is required. The dredging to be done under this contract will be in the bed of the Harlem river and in the bed of Sherman's creek, on the Harlem river, in conformity with the accompanying drawing marked "Dredging at Sherman's Creek, H. R." and is to be done from time to time, and in such quantities and at such times as may be directed by the Engineer, and all the work under this contract is to be fully completed on or before the 15th day of July, 1896.

The damages to be paid by the contractor for each day that the contract, or any part thereof that may be ordered or directed by the Engineer, may be unfinished after the time fixed for the fulfillment thereof has expired, are, by a clause in the contract, determined, fixed and liquidated at Fifty Dollars per day.

Bidders will state in their estimates a price per cubic yard for doing such dredging, in conformity with the approved form of agreement and the specifications therein set forth, by which prices the bids will be tested. This price is to cover all expenses of every kind involved in or incidental to the fulfillment of the contract, including any claim that may arise through delay, from any cause, in the performing of the work thereunder.

Bidders will distinctly write out, both in words and figures, the amount of their estimates for doing this work.

The person or persons to whom the contract may be awarded will be required to attend at this office with the sureties offered by him or them, and execute the contract within five days from the date of the service of a notice to that effect, and in case of failure or neglect so to do, he or they will be considered as having abandoned it, and as in default to the Corporation; and the contract will be readvertised and relet, and so on until it be accepted and executed.

Bidders are required to state in their estimates their names and places of residence; the names of all persons interested with them therein; and if no other person be so interested, it shall distinctly state that fact; 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 Common Council, head of a department, chief of a bureau, deputy thereof or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or in the work 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 for the same purpose, and is not higher than the lowest regular market price for the same kind of labor or material, and is in all respects

fair and without collusion or fraud; that no combination or pool exists of which the bidder is a member, or in which he is directly or indirectly interested, or of which he has knowledge, either personal or otherwise, to bid a certain price or not less than a certain price for said labor or material, or to keep others from bidding thereon; and also, that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof, or Clerk therein, or any other officer or employee of the Corporation of the City of New York or any of its departments, is directly or indirectly interested in this estimate, or in the supplies or work to which it relates, or in any portion of the profits thereof; and has not been given, offered or promised, either directly or indirectly, any pecuniary or other consideration by the bidder or any one in his behalf with a view to influencing his action or judgment in this or any other transaction heretofore had with this department; which estimate must be verified by the oath, in writing, of the party making the estimate, that the several matters stated therein are in all respects true. *Where more than one person is interested, it is requisite that the verification be made and subscribed to by all the parties interested.*

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, upon its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which he would be entitled upon its completion and that which said person or persons would be entitled upon its completion, over and above his liabilities as bail, surety and otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law.

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, upon its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which he would be entitled upon its completion and that which said person or persons would be entitled upon its completion, over and above his liabilities as bail, surety and otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law.

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, upon its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which he would be entitled upon its completion and that which said person or persons would be entitled upon its completion, over and above his liabilities as bail, surety and otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law.

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, upon its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which he would be entitled upon its completion and that which said person or persons would be entitled upon its completion, over and above his liabilities as bail, surety and otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law.

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, upon its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which he would be entitled upon its completion and that which said person or persons would be entitled upon its completion, over and above his liabilities as bail, surety and otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law.

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, upon its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which he would be entitled upon its completion and that which said person or persons would be entitled upon its completion, over and above his liabilities as bail, surety and otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law.

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, upon its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which he would be entitled upon its completion and that which said person or persons would be entitled upon its completion, over and above his liabilities as bail, surety and otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law.

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, upon its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which he would be entitled upon its completion and that which said person or persons would be entitled upon its completion, over and above his liabilities as bail, surety and otherwise; and that he has offered himself as a surety in good faith

Where more than one person is interested it is requisite that the verification be made and subscribed by all the parties interested.

*Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faithful performance in the sum of Two Thousand Five Hundred (2,500) Dollars, and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting, the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York before the award is made and prior to the signing of the contract.*

*No estimate will be considered unless accompanied by either a certified check upon one of the banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of One Hundred and Twenty-five (125) Dollars. Such check or money must not be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his or their deposit or check or certificate of deposit shall be returned to him or them.*

proposing to become sureties, must each write his name and place of residence on said proposal.

Two responsible and approved sureties, residents of this city, are required in all cases.

No proposal will be considered from persons whose character and antecedent dealings with the Board of Education render their responsibility doubtful.

The party submitting a proposal must include in his proposal the names of all sub-contractors, and no change will be permitted to be made in the sub-contractors named without the consent of the School Trustees and Superintendent of School Buildings.

It is required as a condition precedent to the reception or consideration of any proposals, that a certified check upon, or a certificate of deposit of, one of the State or National banks or Trust Companies of the City of New York, drawn to the order of the President of this Board, shall accompany the proposal to an amount of not less than three per cent. of such proposal, when said proposal is for or exceeds ten thousand dollars, and to an amount not less than five per cent. of such proposal when said proposal is for an amount under ten thousand dollars; that on demand, within one day after the awarding of the contract by the proper Board of Trustees, the President of the Board will return all the deposits of checks and certificates of deposit made, to the persons making the same, except that made by the person or persons whose bid has been so accepted; and that if the person or persons whose bid has been so accepted shall refuse or neglect, within five days after notice has been given that the contract is ready for execution, to execute the same, the amount of the deposit or of the check or certificate of deposit made by him or them shall be forfeited to and retained by this Board, not as a penalty, but as liquidated damages for such neglect or refusal, and shall be paid into the City Treasury to the credit of the Sinking Fund of the City of New York; but if the said person or persons whose bid has been so accepted shall execute the contract within the time aforesaid, the amount of his or their deposit or check or certificate of deposit shall be returned to him or them.

#### CORPORATION NOTICE.

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

List 4555, No. 1. Outlet sewer and appurtenances in Bungay street, from Wetmore avenue, to and through One Hundred and Forty-ninth street, Prospect avenue, Kelly street and Wales avenue, to Westchester avenue, with branch sewers in One Hundred and Forty-ninth street, between Southera Boulevard and Robbins avenue; Westchester avenue, north side, between Trinity and Forest avenues; Westchester avenue, south side, between Robbins and Wales avenues; Forest avenue, between Westchester avenue and One Hundred and Sixty-third street; Clifton street, between Caldwell and Forest avenues, and in Westchester avenue, between Wales avenue and One Hundred and Fifty-sixth street.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of Bungay street, from Wetmore avenue to Timpson place; both sides of One Hundred and Forty-ninth street, from Timpson place to Robbins avenue; both sides of Prospect avenue, from Southern Boulevard to Kelly street; both sides of Kelly street, from Prospect avenue to Wales avenue; both sides of Wales avenue, from Kelly street to Westchester avenue; both sides of Westchester avenue, from One Hundred and Fifty-sixth street to Trinity avenue; both sides of Forest avenue, from Westchester avenue to One Hundred and Sixty-third street; both sides of Clifton street, from Caldwell to Forest avenue; also both sides of Whitlock avenue and Austin place, from Bungay street to One Hundred and Forty-ninth street; both sides of One Hundred and Forty-ninth street, from Wetmore avenue to Timpson place; both sides of Timpson place, extending about 500 feet west of One Hundred and Forty-ninth street; both sides of Southern Boulevard, from Leggett avenue to Union avenue; both sides of Fox street, Beck street and Kelly street, from Leggett avenue to Robbins avenue; both sides of Dawson street, from Leggett avenue to Forest avenue; both sides of One Hundred and Fifty-sixth street, from Dawson street to Caldwell avenue; both sides of Prospect avenue, from Kelly street to One Hundred and Sixty-third street; both sides of Union avenue, from One Hundred and Forty-ninth street to Kelly street; both sides of Robbins avenue, from Dater street to Westchester avenue; both sides of Hewitt place, from One Hundred and Fifty-sixth street to Denman place; both sides of Tinton avenue, from One Hundred and Fifty-sixth street to Home street; both sides of Forest avenue, from One Hundred and Sixty-fourth street; both sides of Leggett avenue, from Kelly street to Dawson street; both sides of Westchester avenue, from One Hundred and Fifty-sixth street to Denman place; both sides of Cedar place and Denman place, from Westchester to Caldwell avenue; both sides of Clifton street, from Union to Caldwell avenue; both sides of One Hundred and Sixty-third street, from Prospect to Caldwell avenue; both sides of Teasdale place, from Trinity to Caldwell avenue; both sides of One Hundred and Sixty-fifth street, from Prospect to Trinity avenue; both sides of George street, from Tinton avenue to Boston road, and both sides of Home street, from Tinton avenue to Boston road.

By order of the Board of Police.

List 5191, No. 6. Receiving-basin on the south side of One Hundred and Fifty-eighth street, about 477 feet west of Boulevard Lafayette.

List 5193, No. 7. Sewer in Fourth avenue, between Tenth and Eleventh streets.

List 5195, No. 8. Sewer in One Hundred and Twenty-third street, between Boulevard and Amsterdam avenue.

List 5196, No. 9. Sewer in Eleventh avenue, east side, between One Hundred and Eighty-third and One Hundred and Eighty-fifth streets.

List 5197, No. 10. Sewer in Fifth avenue, between Ninth and Tenth streets.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of Burling Slip and John street, from Pearl to South street and to the extent of half the block at the intersecting streets.

No. 2. South street, between Clinton and Rutgers streets, on Ward Nos. 226 to 227 inclusive; also Ward Nos. 228 to 229 inclusive.

No. 3. Both sides of One Hundred and Forty-sixth street, from Boulevard to New York Central and Hudson River Railroad wall, and west side of Boulevard, from One Hundred and Forty-sixth to One Hundred and Forty-seventh street.

No. 4. South side of One Hundred and Twenty-first street, from Amsterdam avenue to the Boulevard.

No. 5. Block bounded by Greenwich and Hudson streets, Bethune and Bank streets.

No. 6. South side of One Hundred and Fifty-eighth street, extending about 477 feet west of Boulevard Lafayette, and west side of Boulevard Lafayette, from One Hundred and Fifty-fifth to One Hundred and Fifty-eighth street.

No. 7. Both sides of Fourth avenue, from Tenth to Eleventh street.

No. 8. Both sides of One Hundred and Twenty-third street, from Boulevard to Amsterdam avenue.

No. 9. East side of Eleventh avenue, from One Hundred and Eighty-third to One Hundred and Eighty-fifth street.

No. 10. Both sides of Fifth avenue, from Ninth to Tenth street.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections, in writing, to the Chairman of the Board of Assessors, at their office, No. 27 Chambers street, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation on the 9th day of May, 1896.

THOMAS J. RUSH, Chairman; WILLIAM H. BELLAMY, JOHN W. JACOBUS, EDWARD McCUE, Board of Assessors.

NEW YORK, April 8, 1896.

#### POLICE DEPARTMENT.

POLICE DEPARTMENT, NEW YORK, April 19, 1896.

**PUBLIC NOTICE IS HEREBY GIVEN THAT** three Horses, the property of this Department, will be sold at public auction on Friday, April 24, 1896, at 10 o'clock A.M., by Van Tassel & Kearney Auctioneers, at their stables, Nos. 130 and 132 East Thirteenth street.

By order of the Board of Police.

WM. H. KIPP, Chief Clerk.

POLICE DEPARTMENT—CITY OF NEW YORK, 1896.

**OWNERS WANTED BY THE PROPERTY** Clerk of the Police Department of the City of New York, No. 300 Mulberry street, Room No. 9, for the following property, now in his custody, without claimants: Boats, rope, iron, lead, male and female clothing, boots, shoes, wine, blankets, diamonds, canned goods, liquors, etc.; also small amount money taken from prisoners and found by Patrolmen of this Department.

JOHN F. HARRIOT, Property Clerk.

#### NORMAL COLLEGE OF THE CITY.

**SEALED PROPOSALS WILL BE RECEIVED** by the Executive Committee for the care, etc., of the Normal College of the City of New York, until 4 o'clock P.M., on Monday, April 20, 1896, at the Hall of the Board of Education, No. 146 Grand street, for supplying the College buildings, East Sixty-eighth and Sixty-ninth streets, Lexington and Park avenues, with 500 tons, more or less, of egg coal; 15 tons, more or less, of nut coal, mixed; and 5 tons, more or less, of nut coal, all to be of the best quality, clear and in good order, 2,240 pounds to the ton, and to be delivered in the bins of the College buildings at such times and in such quantities as required.

The proposal must state the mines from which it is proposed to supply the coal, to be furnished from the mines named if accepted, and must state the price per ton of 2,240 pounds.

The Executive Committee reserve the right to reject any or all proposals submitted.

The party submitting proposal and the parties proposing to become sureties must each write his name and place of residence on said proposal.

Two responsible and approved sureties, residents of this city, are required.

Proposals must be addressed to "The Executive Committee for the care, etc., of the Normal College."

CHAS. BULKLEY HUBBELL, Chairman.

ARTHUR McMILLIN, Secretary.

DATED NEW YORK, April 7, 1896.

#### CITY CIVIL SERVICE BOARDS.

NEW YORK, March 19, 1896.

**NOTICE IS GIVEN THAT THE REGISTRATION** days in the Labor Bureau will be Monday, Wednesday and Friday, and that examinations will take place on those days at 2 P.M.

S. WILLIAM BRISCOE, Secretary.

NEW CRIMINAL COURT BUILDING, NEW YORK, January 27, 1896.

**EXAMINATIONS WILL BE HELD AS FOLLOWS:**

April 20, PLUMBING INSPECTORS.

April 22, ENGINEER INSPECTORS OF REGULATING, GRADING, PAYING.

S. WILLIAM BRISCOE, Secretary.

#### FINANCE DEPARTMENT.

INTEREST ON CITY BONDS AND STOCKS.

**THE INTEREST DUE MAY 1, 1896, ON THE** Registered Bonds and Stocks of the City and County of New York will be paid on that day by the Comptroller at the office of the City Chamberlain, Room 27, Stewart Building, corner of Broadway and Chambers street.

The Transfer Books will be closed from March 31 to May 1, 1896.

The interest due May 1, 1896, on the Coupon Bonds and Stocks of the City of New York, will be paid on that day by the State Trust Company, No. 36 Wall street.

ASHBEL P. FITCH, Comptroller.

CITY OF NEW YORK—FINANCE DEPARTMENT, COMPTROLLER'S OFFICE, March 13, 1896.

#### SUPREME COURT.

In the matter of the application of the Board of Education, by the Counsel to the Corporation of the City of New York, relative to acquiring title by the Mayor, Aldermen and Commonalty of the City of New York, to certain lands on HENRY, OLIVER AND CATHARINE STREETS, in the Fourth Ward of said City, duly selected and approved by said Board as a site for school purposes, under and in pursuance of the provisions of chapter 191 of the Laws of 1888, as amended by chapter 35 of the Laws of 1890.

**WE, THE UNDERSIGNED COMMISSIONERS** of Estimate in the above-entitled matter, appointed pursuant to the provisions of chapter 191 of the Laws of 1888, as amended by chapter 35 of the Laws of 1890, hereby give notice to the owner or owners, lessee or lessees, parties and persons respectively entitled to or interested in the lands, tenements, hereditaments and premises, title to which is sought to be acquired in this proceeding, and to all others whom it may concern, to wit:

First—That we have completed our estimate of the loss and damage to the respective owners, lessees, parties and persons interested in the lands or premises affected by this proceeding, or having any interest therein, and have filed a true report or transcript of such estimate in the office of the Board of Education for the inspection of whomsoever it may concern.

Second—That all parties or persons whose rights may be affected by the said estimate, and who may object to the same, or any part thereof, may, within ten days after the first publication of this notice, April 17, 1896, file their objections to such estimate, in writing, with us, at our office, Room No. 2, on the fourth floor of the Staats-Zeitung Building, No. 2 Tryon Row, in said city, as provided by section 4 of chapter 191 of the Laws of 1888; and that we, the said Commissioners, will hear parties so objecting, at our said office, on the 2d day of May, 1896, at 10 o'clock in the forenoon, and upon such subsequent days as may be found necessary.

Third—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held in Part III, in the County Court-house, in the City of New York, on the 18th day of May, 1896, at the opening of the Court on that day, and that then and there, and as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

DATED NEW YORK, April 16, 1896.

FRANKLIN BIEN, JAMES J. WALSH, EMANUEL BLUMENSTIEL, Commissioners.

DAVID J. WOELPER, Clerk.

In the matter of the application of The Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to the lands, tenements, and hereditaments required for the purpose of opening and extending TELLER AVENUE (although not yet named by proper authority), from Railroad avenue, West, to East One Hundred and Sixty-fourth street, as the same has been heretofore laid out and designated as a first-class street or road in the Twenty-third Ward of the City of New York.

**NOTICE IS HEREBY GIVEN THAT THE BILL** of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at a Special Term thereof, Part I., to be held in and for the City and County of New York, at the County Court-house, in the City of New York, on the 30th day of April, 1896, at 10:30 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon, and that the said bill of costs, charges and expenses has been deposited in the office of the Clerk of the City and County of New York, there to remain for and during the space of ten days, as required by law.

DATED NEW YORK, April 8, 1896.

CHARLES D. BURRILL, FRANKLIN BIEN, A. M. DRYFOOS, Commissioners.

HENRY DE FOREST BALDWIN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of The Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to EAST ONE HUNDRED AND SIXTY-THIRD STREET (although not yet named by proper authority), from Brook avenue to Courtlandt avenue, in the Twenty-third Ward of the City of New York.

**NOTICE IS HEREBY GIVEN THAT THE BILL** of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at a Special Term thereof, Part I., to be held in and for the City and County of New York, at the County Court-house, in the City of New York, on the 30th day of April, 1896, at 10:30 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon, and that the said bill of costs, charges and expenses has been deposited in the office of the Clerk of the City and County of New York, there to remain for and during the space of ten days, as required by law.

DATED NEW YORK, April 15, 1896.

GEORGE E. MOIT, Chairman, JAMES R. TORRANCE, THEODORE WESTON, Commissioners.

JOHN P. DUNN, Clerk.

In the matter of the application of The Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to the lands, tenements, and hereditaments required for the purpose of opening and extending EAST ONE HUNDRED AND SIXTY-THIRD STREET (although not yet named by proper authority), from Morris Avenue to Railroad Avenue, West

1st. Thence northerly on a line forming an angle of 37 degrees 6 minutes 17 seconds westerly and to the left of a line drawn northerly through the point of beginning and parallel to Tenth avenue for 1,304.01 feet.

2d. Thence easterly deflecting 68 degrees 11 minutes 55 seconds to the right for 53.85 feet.

3d. Thence southerly deflecting 111 degrees 48 minutes 5 seconds to the right for 1,330.72 feet.

4th. Thence westerly, on the arc of a circle whose radius is 530 feet, for 50.47 feet to the point of beginning.

Kepler avenue is designated as a street of the first class and is fifty feet wide, and is shown on section 19 of the Final Maps and Profiles of the Twenty-third and Twenty-fourth Wards of the City of New York, filed in the office of the Commissioner of Street Improvements of the Twenty-third and Twenty-fourth Wards on December 16, 1895, in the office of the Register of the City and County of New York on December 17, 1895, and in the office of the Secretary of State of the State of New York on December 18, 1895.

Dated NEW YORK, April 16, 1896.

FRANCIS M. SCOTT, Counsel to the Corporation, No. 2 Tryon Row, New York City.

In the matter of the application of The Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to VERIO AVENUE (although not yet named by proper authority), from Eastchester avenue to the northern boundary of the City of New York, in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road.

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, at a Special Term of said Court, to be held at Part I. thereof, in the County Court-house, in the City of New York, on Tuesday, the 28th day of April, 1896, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title by The Mayor, Aldermen and Commonalty of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as Verio avenue, from Eastchester avenue to the northern boundary of the City of New York, in the Twenty-fourth Ward of the City of New York, being the following-described lots, pieces or parcels of land, viz.:

Beginning at a point on the line of the northern boundary of the City of New York, distant 257.44 feet westerly from the intersection of the northern boundary line of the City and the western line of Webster avenue (formerly Bronx River road).

1st. Thence westerly 50.16 feet along the northern boundary line of the city.

2d. Thence southerly deflecting 94 degrees 36 minutes 24 seconds to the left for 2,122.01 feet.

3d. Thence easterly deflecting 87 degrees 11 minutes 8 seconds to the left for 50.06 feet.

4th. Thence northerly for 2,120.44 feet to the point of beginning.

Verio avenue is designated as a street of the first class and is fifty feet wide, and is shown on section 19 of the Final Maps and Profiles of the Twenty-third and Twenty-fourth Wards of the City of New York, filed in the office of the Commissioner of Street Improvements of the Twenty-third and Twenty-fourth Wards on December 16, 1895, in the office of the Register of the City and County of New York on December 17, 1895, and in the office of the Secretary of State of the State of New York on December 18, 1895.

Dated NEW YORK, April 16, 1896.

FRANCIS M. SCOTT, Counsel to the Corporation, No. 2 Tryon Row, New York City.

In the matter of the application of The Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to NAPIER AVENUE (although not yet named by proper authority), from Eastchester avenue to Mount Vernon avenue, in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road.

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, at a Special Term of said Court, to be held at Part I. thereof, in the County Court-house, in the City of New York, on Tuesday, the 28th day of April, 1896, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title by The Mayor, Aldermen and Commonalty of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as Napier avenue, from Eastchester avenue to Mount Vernon avenue, in the Twenty-fourth Ward of the City of New York, being the following-described lots, pieces or parcels of land, viz.:

Beginning at a point on the northern line of East One Hundred and Sixty-eighth street (formerly Birch street) distant 288.80 feet westerly of the intersection of the western line of Nelson avenue and the northern line of East One Hundred and Sixty-eighth street.

1st. Thence westerly along the northern line of East One Hundred and Sixty-eighth street for 72.07 feet.

2d. Thence northerly deflecting 103 degrees 45 minutes 50 seconds to the right for 503.55 feet.

3d. Thence northwesterly deflecting 10 degrees 58 minutes 57 seconds to the left for 52.74 feet.

4th. Thence northwesterly deflecting 4 degrees 36 minutes 6 seconds to the left for 347.75 feet.

5th. Thence northeasterly deflecting 21 degrees 35 minutes 28 seconds to the right for 735.23 feet.

6th. Thence northerly deflecting 23 degrees 5 minutes 57 seconds to the left for 404.20 feet.

7th. Thence northeasterly deflecting 37 degrees 49 minutes 47 seconds to the right for 114.13 feet.

8th. Thence southerly deflecting 142 degrees 10 minutes 13 seconds to the right for 508.65 feet.

9th. Thence southerly deflecting 23 degrees 5 minutes 57 seconds to the right for 737.10 feet.

10th. Thence southeasterly deflecting 21 degrees 35 minutes 28 seconds to the left for 321.15 feet.

11th. Thence southeasterly deflecting 1 degree 38 minutes 57 seconds to the right for 67.19 feet.

12th. Thence southerly for 594.54 feet to the point of beginning.

Odgen avenue is designated as a street of the first class, and is seventy feet wide, and is shown on section 8 of the Final Maps and Profiles of the Twenty-third and Twenty-fourth Wards of the City of New York, filed in the office of the Commissioner of Street Improvements of the Twenty-third and Twenty-fourth Wards on November 11, 1895, in the office of the Register of the City and County of New York on November 12, 1895, and in the office of the Secretary of State of the State of New York on November 13, 1895, and in section 15 of said Final Maps and Profiles, filed in said Commissioner's Office on December 16, 1895, and in said Register's Office and said Secretary of State's Office on December 17, 1895.

Dated NEW YORK, April 16, 1896.

FRANCIS M. SCOTT, Counsel to the Corporation, No. 2 Tryon Row, New York City.

In the matter of the application of The Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to OGDEN AVENUE (although not yet named by proper authority), from Jerome avenue to Washington Bridge, in the Twenty-third and Twenty-fourth Wards of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road.

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, at a Special Term of said Court, to be held at Part I. thereof, in the County Court-house, in the City of New York, on Tuesday, the 28th day of April, 1896, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title by The Mayor, Aldermen and Commonalty of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as Ogden avenue, from Jerome avenue to Washington Bridge, in the Twenty-third and

Dated NEW YORK, April 16, 1896.

FRANCIS M. SCOTT, Counsel to the Corporation, No. 2 Tryon Row, New York City.

In the matter of the application of The Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to OGDEN AVENUE (although not yet named by proper authority), from Jerome avenue to Washington Bridge, in the Twenty-third and Twenty-fourth Wards of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road.

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, at a Special Term of said Court, to be held at Part I. thereof, in the County Court-house, in the City of New York, on Tuesday, the 28th day of April, 1896, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title by The Mayor, Aldermen and Commonalty of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as Ogden avenue, from Jerome avenue to Washington Bridge, in the Twenty-third and Twenty-fourth Wards of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road.

Dated NEW YORK, April 16, 1896.

GILBERT M. SPEIR, JR., ARTHUR M. KING, WILLIAM C. HILL, Commissioners.

MORTIMER A. RUGER, Clerk.

In the matter of the application of the Board of Education, by the Counsel to the Corporation of the City of New York, relative to acquiring title by The Mayor, Aldermen and Commonalty of the City of New York, to certain lands in the block bounded by West Houston, Varick, King and Congress streets, in the Eighth Ward of said city, duly selected and approved by said Board as a site for school purposes, under and in pursuance of the provisions of chapter 191 of the Laws of 1888, as amended by chapter 35 of the Laws of 1890.

WE, THE UNDERSIGNED COMMISSIONERS

of Estimate in the above-entitled matter, appointed pursuant to the provisions of chapter 191 of the

Twenty-fourth Wards of the City of New York, being the following-described lots, pieces or parcels of land, viz.:

PARCEL "A."

Beginning at a point on the northern side of Jerome avenue distant 272.85 feet westerly of the intersection of the western line of Bremer avenue and the northern line of Jerome avenue.

1st. Thence westerly along the northern line of Jerome avenue for 125.43 feet.

2d. Thence northerly deflecting 146 degrees 4 minutes 38 seconds to the right for 2,872.55 feet.

3d. Thence northwesterly deflecting 43 degrees 51 minutes 33 seconds to the left for 25.75 feet to the southern line of East One Hundred and Sixty-seventh (formerly Union street).

4th. Thence easterly along the southern line of East One Hundred and Sixty-seventh street for 87.84 feet.

5th. Thence southerly deflecting 90 degrees to the right for 945 feet to the northern line of East One Hundred and Sixty-fifth street (legally opened Devoe street).

6th. Thence westerly along the northern line of said East One Hundred and Sixty-fifth street (Devoe street) to 100 feet.

7th. Thence southerly along the western line of said East One Hundred and Sixty-fifth street (Devoe street) to 60 feet.

8th. Thence easterly along the southern line of East One Hundred and Sixty-fifth street (Devoe street) to 60 feet.

9th. Thence southerly 1,782.03 feet to the point of beginning.

PARCEL "B."

Beginning at a point on the northern line of East One hundred and Sixty-seventh street (formerly Union street) distant 237.83 feet westerly of the intersection of the western line of Nelson avenue and the northern line of East One Hundred and Sixty-seventh street.

1st. Thence westerly along the northern line of East One Hundred and Sixty-seventh street for 66.62 feet to the eastern line of East One Hundred and Sixty-seventh street (Wolf street).

2d. Thence northerly deflecting 44 degrees 45 minutes 13 seconds to the right for 558.87 feet to the southern line of East One Hundred and Sixty-eighth street (formerly Birch street).

3d. Thence easterly deflecting 10 degrees 58 minutes 57 seconds to the left for 52.74 feet.

4th. Thence easterly along the southern line of East One Hundred and Sixty-eighth street for 72.35 feet.

5th. Thence southerly for 579.55 feet to the point of beginning.

PARCEL "C."

Beginning at a point on the northern line of East One hundred and Sixty-eighth street (formerly Birch street) distant 288.80 feet westerly of the intersection of the western line of Nelson avenue and the northern line of East One Hundred and Sixty-eighth street.

1st. Thence westerly along the northern line of East One Hundred and Sixty-eighth street for 72.07 feet.

2d. Thence northerly deflecting 103 degrees 45 minutes 50 seconds to the right for 503.55 feet.

3d. Thence northwesterly deflecting 10 degrees 58 minutes 57 seconds to the left for 52.74 feet.

4th. Thence northwesterly deflecting 4 degrees 36 minutes 6 seconds to the left for 347.75 feet.

5th. Thence northeasterly deflecting 21 degrees 35 minutes 28 seconds to the right for 735.23 feet.

6th. Thence northerly deflecting 23 degrees 5 minutes 57 seconds to the left for 404.20 feet.

7th. Thence northeasterly deflecting 37 degrees 49 minutes 47 seconds to the right for 114.13 feet.

8th. Thence southerly deflecting 142 degrees 10 minutes 13 seconds to the right for 508.65 feet.

9th. Thence southerly deflecting 23 degrees 5 minutes 57 seconds to the right for 737.10 feet.

10th. Thence southeasterly deflecting 21 degrees 35 minutes 28 seconds to the left for 321.15 feet.

11th. Thence southeasterly deflecting 1 degree 38 minutes 57 seconds to the right for 67.19 feet.

12th. Thence southerly for 594.54 feet to the point of beginning.

Odgen avenue is designated as a street of the first class, and is fifty feet wide, and is shown on section 8 of the Final Maps and Profiles of the Twenty-third and Twenty-fourth Wards of the City of New York, filed in the office of the Commissioner of Street Improvements of the Twenty-third and Twenty-fourth Wards on December 16, 1895, in the office of the Register of the City and County of New York on December 17, 1895, and in the office of the Secretary of State of the State of New York on December 18, 1895.

Dated NEW YORK, April 16, 1896.

FRANCIS M. SCOTT, Counsel to the Corporation, No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Education, by the Counsel to the Corporation of the City of New York, relative to acquiring title by The Mayor, Aldermen and Commonalty of the City of New York, to certain lands in the block bounded by West Houston, Varick, King and Congress streets, in the Eighth Ward of said city, duly selected and approved by said Board as a site for school purposes, under and in pursuance of the provisions of chapter 191 of the Laws of 1888, as amended by chapter 35 of the Laws of 1890.

WE, THE UNDERSIGNED COMMISSIONERS

of Estimate in the above-entitled matter, appointed pursuant to the provisions of chapter 191 of the

Laws of 1888, as amended by chapter 35 of the Laws of 1890, hereby give notice to the owner or owners, lessee or lessees, parties and persons respectively entitled to or interested in the lands, tenements, hereditaments and premises, title to which is sought to be acquired in this proceeding, and have filed a true report or transcript of such estimate in the office of the Board of Education for the inspection of whomsoever it may concern.

Second—That all parties or persons whose rights may be affected by the said estimate, and who may object to the same, or any part thereof, may, within ten days after the first publication of this notice, April 15, 1896, file their objections to such estimate, in writing, with us, at our office, Room No. 2, on the fourth floor of the Staats-Zeitung Building, No. 2 Tryon Row, in said city, as provided by section 4 of chapter 191 of the Laws of 1890, and that we, the said Commissioners, will hear parties so objecting, at our said office, on the 28th day of April, 1896, at 4:30 o'clock in the afternoon, and upon such subsequent days as may be found necessary.

Third—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held in Part III., in the County Court-house, in the City of New York, on the 15th day of May, 1896, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be

