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THE CITY RECORD.

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BOARD OF CITY RECORD.

JOHN PURROY MITCHEL, Mayor.

FRANK L. POLK, CORPORATION COUNSEL.

WILLIAM A. PRENDERGAST, COMPTROLLER.

DAVID FERGUSON, SUPERVISOR.

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BOARD OF ESTIMATE AND APPORTIONMENT

Notice of Public Hearing.

COMMITTEE ON THE CITY PLAN.

Establishing a width of 100 Feet for Jackson Avenue, from Sanford Avenue to the City Line, Borough of Queens.

NOTICE IS HEREBY given that THE COMMITTEE ON THE CITY PLAN of the Board of Estimate and Apportionment will hold a PUBLIC HEARING on FRIDAY, DECEMBER 4, 1914, at 3 P. M., in ROOM 16, CITY HALL, BOROUGH OF MANHATTAN, on a map establishing a width of 100 feet for Jackson Avenue, from Sanford Avenue to the City Line, Borough of Queens; the legal opening of the street and the apportionment of the cost of such opening.

Dated November 19, 1914.
n19d4

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

Notice of Public Hearing.

COMMITTEE ON THE CITY PLAN.

Extension of Sixth Avenue Southerly to Varick Street, Borough of Manhattan. NOTICE IS HEREBY given that THE COMMITTEE ON THE CITY PLAN of the Board of Estimate and Apportionment will hold a PUBLIC HEARING on a petition for the EXTENSION OF SIXTH AVENUE southerly to Varick Street, Borough of Manhattan, on FRIDAY, DECEMBER 4, 1914, at 2.30 P. M. in ROOM 16, CITY HALL, Borough of Manhattan.

Dated November 13, 1914.
n13,d4

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

BOARD OF ALDERMEN.

Notice of Public Hearing.

PUBLIC NOTICE IS HEREBY given that the COMMITTEE ON MARKETS of the BOARD OF ALDERMEN will hold a PUBLIC HEARING in the ALDERMANIC CHAMBER, CITY HALL, Borough of Manhattan, on MONDAY, DECEMBER 7, 1914, at 2 O'CLOCK P. M., on the following matters:

An ordinance to amend Section 82 of Article 6 of Chapter 4 of Part 1 of the Code of Ordinances of The City of New York, relating to the Bureau of City Revenue and Markets (Minutes of September 22, 1914, page 382), establishing a market adjacent to the Fort Lee Ferry.

An ordinance establishing a market beneath and adjacent to the Third Avenue Bridge at 129th Street, Borough of Manhattan (Minutes of September 22, 1914, page 384).

An ordinance establishing a market on the property around and beneath the Queensboro Bridge and east of First Avenue (Minutes of September 22, 1914, page 384).

All persons interested in the above matters are requested to attend.
n24,d7 P. J. SCULLY, City Clerk and Clerk of the Board of Aldermen.

PUBLIC SERVICE COMMISSION—FIRST DISTRICT.

No. 154 NASSAU STREET, NEW YORK CITY.

Calendar for the Week Commencing November 30, 1914.

Friday, December 4, 1914—10 a. m.—Room 305—Case No. 1395—New York Edison Company—George Stadlander et al., complainants—"Rate for electricity in Manhattan and The Bronx"—Whole Commission. 10 a. m.—Room 305—Case No. 1492—New York Edison Company—Julius Ewoldt et al., complainants—"Rate for

electricity in Manhattan and The Bronx"—Whole Commission. 10.30 a. m.—Room 305—Case No. 1880—Brooklyn Heights Railroad Company et al.—"Service on street surface railroad lines"—Whole Commission. 2.30 p. m.—Room 305—Case No. 1787—Woodhaven Gas Light Company—Albert C. Schwarz et al., complainants—"Rate for gas in the Fourth Ward, Borough of Queens"—Commissioner Maltbie. 2.30 p. m.—Room 305—Case No. 1807—Woodhaven Gas Light Company et al.—"Rate for gas in the Fourth Ward, Borough of Queens"—Commissioner Maltbie.

Meeting of the Committee of the Whole held Tuesday, Wednesday, Thursday and Friday at 10.30 a. m. in the Committee Room.

Regular meeting of the Commission held every Tuesday and Friday at 12.15 p. m. in Room 310.

LAW DEPARTMENT.

October 1, 1914.

Hon. JOHN PURROY MITCHEL, Mayor:

Sir—I have the honor to submit my report of matters relating to delinquent jurors in the Boroughs of Manhattan and The Bronx for the quarter ending September 30, 1914, in accordance with the provisions of Section 666, Chapter 30, of the Consolidated Laws of the State of New York.

I beg to report, herewith, the number of those persons fined according to the papers transmitted to me by the Commissioner of Jurors since my last report, together with the amount of such fines; the number of those persons proceeded against by me since my last report; the number of cases still pending; the amount of fines collected during the three months preceding this report, and the disposition of the same.

Number of persons fined according to papers transmitted to me by the Commissioner of Jurors since my last report (July 1, 1914), 132. Number of persons fined \$100, 125. Number of persons fined \$50, 1. Number of persons fined \$10, 6. Number of persons fined prior to the date of my last report against whom no proceedings were taken prior to said report, the lists containing the record of said fines having been received from the Commissioner of Jurors too late for prosecution thereon to be had during quarter ending June 30, 1914, 42. Total number of cases to be accounted for, 174.

There were no delinquent juror proceedings during the quarter ending September 30, 1914, the trial terms of the Supreme and City Courts, respectively, being closed during the said period.

Number of cases pending, 174.

Amount of Money Collected During the Quarter.

Received—July 3, 1914, Abraham J. Jacobs, \$60.

Disbursements—June 30, 1914, paid to the Commissioner of Jurors, \$60.

Respectfully submitted, FRANK L. POLK, Corporation Counsel.

Borough of Queens.

Report for week ended October 31, 1914.

Public Moneys Received—For restoring pavement over street openings, \$456; for vault permits, \$120.76; for sewer connections, \$250. Total, \$826.76.

Requisitions Drawn on Comptroller—General administration, \$425.68; Bureau of Highways, \$51,621.05; Bureau of Sewers, \$8,929.05; Bureau of Street Cleaning, \$5,963.37; Bureau of Public Buildings and Offices, \$1,071.26; Bureau of Topographical Surveys, \$585.30; Bureau of Substructures, \$2.25; Bureau of Buildings, \$216.06. Total, \$68,814.02.

Permits Issued—To open streets to tap water pipes, 48; to open streets to repair water connections, 6; to open streets to make sewer connections, 34; to open streets to repair sewer connections, 4; to place building material on streets, 8; to construct street vaults, 5; special permits, 10; to cross sidewalks, 2; to repair sidewalks, 23. Total, 140.

Work Done.

Bureau of Highways.

Macadam Streets—Square yards of macadam pavement repaired, 41,660; square yards of macadam pavement cleaned, 9,760; square yards of dirt wings honed and cleaned, 2,800; linear feet of gutters cleaned, 135; square yards of macadam pavement tarred, 4,960; square yards of macadam pavement sprinkled, 8,610; square yards of gutters paved, 420.

Paved Streets—Square yards of granite pavement repaired, 1,548; square yards of wood block pavement repaired, 740; square yards of brick pavement repaired, 467; linear feet of curb reset, 641; linear feet of crosswalks relaid, 155; linear feet of gutters cleaned, 4,680; square yards of gutters constructed, 210.

Unimproved Streets—Square yards of roadway graded, 35,175; square yards of roadway crowned and repaired, 1,650; square yards of sidewalks graded, 7,056; linear feet of gutters cleaned, 25,756.

Culverts—Linear feet of pipe laid, 393.

Trees and Weeds—Square yards of weeds cut down and removed, 19,475.

Topographical Bureau.

By Office Force—Rule maps: 17th Ave., VanPelt St., Seneca Ave., Ziegler Ave. Draft damage maps: 17th, Seneca, Ulster, Westchester, 117th and Dearborn Aves., Radcliff, Strong and VanPelt Sts., Towns Place, Ziegler Ave., Caldwell, Atlantic and Columbia Aves., 2nd, 3rd, 4th and 5th Sts. Final damage maps: Richard Ave., Whitney St. Benefit maps: Richard, Ely, Kimball, Yellowstone and Corona Aves., Rockaway Road, Queens Boulevard. Calculating and plotting of field work. Copying old records, County Clerk's office, Queens County.

By Field Force—Monumenting: Cedar Manor, Hollis, Richmond Hill, White-stone, Maspeth, Kew, Bayside, Murray Hill, Wave Crest, Far Rockaway, College Point, Flushing, Jamaica South, Ar-verne, Louona Park. Traverse and loca-tion: Arverne, Maspeth, Louona Park.

Leveling: Ramblersville, Richmond Hill. Damage: Jamaica.

Bureau of Substructures and Franchises.

By Office Force—Plotting and checking record maps Nos. 45 and 46 of Section 1, Long Island City. Plotting corrections and additions on record maps. Plotting and making changes on record map layout. Investigating company and City Department data. Examining, indexing and filing field notes and boring data. Approving application for permits.

By Field Force—Survey location in the territory covered by Record Maps Nos. 37, 38 and 43 of Sections 1, Long Island City. Location of various substructures uncovered throughout the First and part of the Second and Fourth Wards.

Bureau of Sewers.

Number of manholes built, 3; linear feet of sewer cleaned, 91,930; number of basins cleaned, 178; linear feet of sewer relieved, 40; number of manholes raised, 5; number of manholes cleaned, 400; open drains cleaned, 2,705. Material used: Manhole covers, 2; manhole heads, 1; basin hoods, 3; 10 by 10 by 1 boards, 10; brick, 3,200; cement, 47 bags; sand, 6 barrels; iron steps, 12; nails, 4 pounds; 10 by 4 by 2 joists, 4. Loads removed from sewers, 176; loads removed from basins, 218; loads removed from drains, 48.

Bureau of Street Cleaning.

Street Sweepings, Garbage, Etc., Col-lected and Disposed of—Mixed materials, 4,614½; ashes, loads, 1,409½ sweepings, loads, 862½; rubbish, loads, 3,130; garbage, loads, 769 8-9; miles of street swept, 99; miles of private street swept, 7; miles of gutters swept, 30.

Bureau of Public Buildings and Offices—Painting, plastering, carpenter work, plumbing, repairs to tin roofs, leaders, etc., and cleaning.

Laboring Force Employed.

Bureau of Highways—Foremen, Assist-ant Foremen, Mechanics and Laborers, 506; teams, 28; horses and carts, 38; steam rollers, 11.

Bureau of Sewers—Foremen, Assistant Foremen, Drivers, Sounders, Mechanics and Laborers, 143; horses and carts, 21.

Bureau of Street Cleaning—District Su-perintendent, Foremen, Assistant Fore-men, Mechanics, Helpers, Drivers, Labor-ers and Clerks, 293; teams and trucks, 57; teams and sweepers, 4; horses and carts, 129; horses and sprinklers, 4.

Bureau of Public Buildings and Offices—Clerks, Foremen, Engineer, Firemen, Stokers, Carpenters, Plumbers, Pipe Fit-ters, Tinsmith, Helpers, Painters, Labor-ers, Cleaners, Janitors, Mason, Helpers and Attendant, 87.

Bureau of Topographical Surveys—En-gineer in Charge, Assistant Engineer, La-borers, Sounders, Rodmen, Drivers, Fore-men, Assistant Foremen, Draughtsmen, Transistmen, Computers, Riggers, Axemen and Flaggers, 155.

JAMES A. DAYTON, Acting Presi-dent.

BOARD OF ESTIMATE AND APPORTIONMENT

Minutes of Meeting of Board of Estimate and Apportionment, Held in Room 16, City Hall, Friday, November 20, 1914.

The Board met in pursuance of an adjournment.

Present—John Purroy Mitchel, Mayor; William A. Prendergast, Comptroller; George McAneny, President, Board of Aldermen; Marcus M. Marks, President, Borough of Manhattan; Lewis H. Pounds, President, Borough of Brooklyn; Douglas Mathewson, President, Borough of The Bronx; Maurice E. Connolly, President, Borough of Queens; and Charles J. McCormack, President, Borough of Richmond.

The Mayor, Hon. John Purroy Mitchel, presided.

Approval of Minutes (Cal. No. 1).

The Minutes of the meeting held October 31, 1914, were approved as printed in the CITY RECORD, November 19, 1914.

PUBLIC HEARINGS.

On Changes in the City Map.

Borough of Brooklyn.

Hearing in the Matter of Changing the Map or Plan of The City of New York by Changing the Lines of Bay 43d Street, Between Harway Avenue and Cropsey Avenue, Borough of Brooklyn (Cal. No. 2).

The Secretary presented affidavits of publication showing that the matter had been duly advertised in accordance with resolution adopted by the Board on October 23, 1914 (Cal. No. 71).

No one appearing in opposition to or in favor of the proposed change, the hearing was closed.

The following was offered:

Whereas, at a meeting of this Board, held on the 23d day of October, 1914, a resolution was adopted proposing to change the map or plan of The City of New York so as to change the lines and grades of Bay 43d Street between Harway Avenue and Cropsey Avenue, in the Borough of Brooklyn, City of New York, and appointing a hearing at a meeting of this Board to be held on the 20th day of November, 1914, at 10.30 o'clock a. m., at which meeting such proposed action would be considered by this Board, and requesting a notice to all persons affected thereby, of the aforesaid time and place at which such proposed action would be considered, to be published in the CITY RECORD and in the Corporation Newspapers for ten days prior to the 20th day of November, 1914; and

Whereas, it appears from the affidavits of the Supervisor of the City Record and the publishers of the Corporation Newspapers that the aforesaid resolution and notice have been published in the CITY RECORD and in the Corporation Newspapers for ten days prior to the 20th day of November, 1914; and

Whereas, all persons interested in such proposed change were afforded an opportunity to be heard thereon, and such proposed change was duly considered by this Board; now, therefore, be it

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest to change the map or plan of The City of New York, by changing the lines and grades of Bay 43d Street, between Harway Avenue and Cropsey Avenue, in the Borough of Brooklyn, City of New York, does hereby favor the same so as to make the aforesaid change in accordance with a map or plan bearing the signature of the Commissioner of Public Works of the Borough, and dated September 15, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

Borough of The Bronx.

Hearing in the Matter of Changing the Map or Plan of The City of New York by Changing the Grade of Webster Avenue Between East 180th Street and East 183d Street, Borough of The Bronx (Cal. No. 3).

The Secretary presented affidavit of publication showing that the matter had been duly advertised in accordance with a resolution adopted by the Board on October 23, 1914 (Cal. No. 72).

No one appearing in opposition to or in favor of the proposed change, the hearing was closed.

The following was offered:

Whereas, at a meeting of this Board, held on the 23d day of October, 1914, a resolution was adopted proposing to change the map or plan of The City of New York so as to change the grades of Webster Avenue, between East 180th Street and East 183d Street, and of the intersecting streets affected thereby, in the Borough of The Bronx, City of New York, and appointing a hearing at a meeting of this Board to be held on the 20th day of November, 1914, at 10.30 o'clock a. m., at which meeting such proposed action would be considered by this Board, and requesting a notice to all persons affected thereby, of the aforesaid time and place at which such proposed action would be considered, to be published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, it appears from the affidavit of the Supervisor of the City Record that the aforesaid resolution and notice have been published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, all persons interested in such proposed change were afforded an opportunity to be heard thereon, and such proposed change was duly considered by this Board; now, therefore, be it

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest to change the map or plan of The City of New York by changing the grades of Webster Avenue between East 180th Street and East 183d Street, and of the intersecting streets affected thereby, in the Borough of The Bronx, City of New York, does hereby favor the same so as to make the aforesaid change in accordance with a map or plan bearing the signature of the President of the Borough, and dated September 9, 1913.

Which was adopted by the following vote:

Affirmative—The Mayor, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

Hearing in the Matter of Changing the Map or Plan of The City of New York by Changing the Lines of Baker Avenue Between Garfield Street and White Plains Road, Borough of The Bronx (Cal. No. 4).

The Secretary presented affidavit of publication showing that the matter had been duly advertised in accordance with a resolution adopted by the Board on October 23, 1914 (Cal. No. 73); and a communication dated November 13, 1914, from the Regent Realty Company, owners of Lot No. 18 in Block 4025, which has a frontage on Baker Avenue, and of other lots within the probable area of assessment, favoring the proposed reduction in width of Baker Avenue and urging its authorization by the Board.

No one appearing in opposition to or in favor of the proposed change, the hearing was closed.

The following was offered:

Whereas, At a meeting of this Board, held on the 23rd day of October, 1914, a resolution was adopted proposing to change the map or plan of The City of New York so as to change the lines of Baker Avenue, between Garfield Street and White Plains Road, and adjust the grades of the intersecting streets affected thereby, in the Borough of The Bronx, City of New York, and appointing a hearing at a meeting of this Board to be held on the 20th day of November, 1914, at 10.30 o'clock a. m., at which meeting such proposed action would be considered by this Board, and requesting a notice to all persons affected thereby, of the aforesaid time and place at which such proposed action would be considered, to be published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, It appears from the affidavit of the Supervisor of the City Record that the aforesaid resolution and notice have been published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, All persons interested in such proposed change were afforded an opportunity to be heard thereon, and such proposed change was duly considered by this Board; now, therefore, be it

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest to change the map or plan of The City of New York by changing the lines of Baker Avenue, between Garfield Street and White Plains Road, and adjusting the grades of the intersecting streets affected thereby, in the Borough of The Bronx, City of New York, does hereby favor the same so as to make the aforesaid change in accordance with a map or plan bearing the signature of the President of the Borough, and dated May 27, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

Hearing in the Matter of Changing the Map or Plan of The City of New York by Changing the Grade of Colgate Avenue, Between Watson Avenue and Westchester Avenue, Borough of The Bronx (Cal. No. 5).

The Secretary presented affidavit of publication showing that the matter had been duly advertised in accordance with a resolution adopted by the Board on October 23, 1914 (Cal. No. 74).

No one appearing in opposition to or in favor of the proposed change, the hearing was closed.

The following was offered:

Whereas, At a meeting of this Board, held on the 23rd day of October, 1914, a resolution was adopted proposing to change the map or plan of The City of New York, so as to change the grade of Colgate Avenue, between Watson Avenue and Westchester Avenue, in the Borough of The Bronx, City of New York, and appointing a hearing at a meeting of this Board to be held on the 20th day of November, 1914, at 10.30 o'clock a. m., at which meeting such proposed action would be considered by this Board, and requesting a notice to all persons affected thereby, of the aforesaid time and place at which such proposed action would be considered, to be published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, It appears from the affidavit of the Supervisor of the City Record that the aforesaid resolution and notice have been published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, All persons interested in such proposed change were afforded an opportunity to be heard thereon, and such proposed change was duly considered by this Board; now, therefore, be it

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest to change the map or plan of The City of New York by changing the grade of Colgate Avenue, between Watson Avenue and Westchester Avenue, in the Borough of The Bronx, City of New York, does hereby favor the same so as to make the aforesaid change in accordance with a map or plan bearing the signature of the Secretary of the Board of Estimate and Apportionment, and dated August 26, 1913.

Which was adopted by the following vote:

Affirmative—The Mayor, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

Borough of Queens.

Hearing in the Matter of Changing the Map or Plan of The City of New York by Changing the Street Plan for the Territory Bounded by Alstyn Avenue, Southern Avenue, Gerry Avenue, Hanover Avenue and Corona Avenue, Borough of Queens (Cal. No. 6).

The Secretary presented affidavit of publication showing that the matter had been duly advertised in accordance with a resolution adopted by the Board on October 23, 1914 (Cal. No. 75).

No one appearing in opposition to or in favor of the proposed change, the hearing was closed.

The following was offered:

Whereas, At a meeting of this Board, held on the 23rd day of October, 1914, a resolution was adopted proposing to change the map or plan of The City of New York so as to change the lines and grades of the street system within the territory bounded by Alstyn Avenue, Southern Avenue, Gerry Avenue, Hanover Avenue and Corona Avenue, in the Borough of Queens, City of New York, and appointing a hearing at a meeting of this Board to be held on the 20th day of November, 1914, at 10.30 o'clock a. m., at which meeting such proposed action would be considered by this Board, and requesting a notice to all persons affected thereby, of the aforesaid time and place at which such proposed action would be considered, to be published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, It appears from the affidavit of the Supervisor of the City Record that the aforesaid resolution and notice have been published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, All persons interested in such proposed change were afforded an opportunity to be heard thereon, and such proposed change was duly considered by this Board; now, therefore, be it

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest to change the map or plan of The City of New York by changing the lines and grades of the street system within the territory bounded by Alstyn Avenue, Southern Avenue, Gerry Avenue, Hanover Avenue and Corona Avenue, in the Borough of Queens, City of New York, does hereby favor the same so as to make the aforesaid change in accordance with a map or plan bearing the signature of the President of the Borough, and dated June 27, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

Hearing in the Matter of Changing the Map or Plan of The City of New York by Changing the Grade of Kingsland Avenue, Between 42d Street and Luydig Place, Borough of Queens (Cal. No. 7).

The Secretary presented affidavit of publication showing that the matter had been duly advertised in accordance with a resolution adopted by the Board on October 23, 1914 (Cal. No. 76).

No one appearing in opposition to or in favor of the proposed change, the hearing was closed.

The following was offered:

Whereas, At a meeting of this Board, held on the 23d day of October, 1914, a resolution was adopted proposing to change the map or plan of The City of New York so as to change the grades of Kingsland Avenue between 42d Street and Luydig Place, in the Borough of Queens, City of New York, and appointing a hearing at a meeting of this Board to be held on the 20th day of November, 1914, at 10.30 o'clock a. m., at which meeting such proposed action would be considered by this Board, and requesting a notice to all persons affected thereby, of the aforesaid time and place at which such proposed action would be considered, to be published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, It appears from the affidavit of the Supervisor of the City Record that the aforesaid resolution and notice have been published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, All persons interested in such proposed change were afforded an opportunity to be heard thereon, and such proposed change was duly considered by this Board; now, therefore, be it

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest to change the map or plan of The City of New York by changing the grades of Kingsland Avenue between

42d Street and Luydig Place, in the Borough of Queens, City of New York, does hereby favor the same so as to make the aforesaid change in accordance with a map or plan bearing the signature of the President of the Borough, and dated December 5, 1913.

Which was adopted by the following vote:

Affirmative—The Mayor, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

Hearing in the Matter of Changing the Map or Plan of The City of New York by Changing the Grade of Carolin Street, Between Foster Avenue and Barnett Avenue, Borough of Queens (Cal. No. 8).

The Secretary presented affidavit of publication showing that the matter had been duly advertised in accordance with a resolution adopted by the Board on October 23, 1914 (Cal. No. 77).

No one appearing in opposition to or in favor of the proposed change, the hearing was closed.

The following was offered:

Whereas, At a meeting of this Board, held on the 23d day of October, 1914, a resolution was adopted proposing to change the map or plan of The City of New York so as to change the grades of the street system within the territory bounded by Foster Avenue, Bliss Street, Barnett Avenue and Gosman Avenue, in the Borough of Queens, City of New York, and appointing a hearing at a meeting of this Board to be held on the 20th day of November, 1914, at 10.30 o'clock a. m., at which meeting such proposed action would be considered by this Board, and requesting a notice to all persons affected thereby, of the aforesaid time and place at which such proposed action would be considered, to be published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, It appears from the affidavit of the Supervisor of the City Record that the aforesaid resolution and notice have been published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, All persons interested in such proposed change were afforded an opportunity to be heard thereon, and such proposed change was duly considered by this Board; now, therefore, be it

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest to change the map or plan of The City of New York by changing the grades of the street system within the territory bounded by Foster Avenue, Bliss Street, Barnett Avenue and Gosman Avenue, in the Borough of Queens, City of New York, does hereby favor the same so as to make the aforesaid change in accordance with a map or plan bearing the signature of the Secretary of the Board of Estimate and Apportionment, and dated September 18, 1913.

Which was adopted by the following vote:

Affirmative—The Mayor, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

Hearing in the Matter of Changing the Map or Plan of The City of New York by Changing the Grade of Astoria Avenue from 8th Avenue to Steinway Avenue, and of 9th Avenue from Vandeventer Avenue to Woolsey Avenue, Borough of Queens (Cal. No. 9).

The Secretary presented affidavit of publication showing that the matter had been duly advertised in accordance with a resolution adopted by the Board on October 23, 1914 (Cal. No. 78).

No one appearing in opposition to or in favor of the proposed change, the hearing was closed.

The following was offered:

Whereas, At a meeting of this Board, held on the 23d day of October, 1914, a resolution was adopted proposing to change the map or plan of The City of New York so as to change the grades of Astoria Avenue between 8th Avenue and Steinway Avenue, and the grades of 9th Avenue between Vandeventer Avenue and Woolsey Avenue, in the Borough of Queens, City of New York, and appointing a hearing at a meeting of this Board to be held on the 20th day of November, 1914, at 10.30 o'clock a. m., at which meeting such proposed action would be considered by this Board, and requesting a notice to all persons affected thereby, of the aforesaid time and place at which such proposed action would be considered, to be published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, It appears from the affidavit of the Supervisor of the City Record that the aforesaid resolution and notice have been published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, All persons interested in such proposed change were afforded an opportunity to be heard thereon, and such proposed change was duly considered by this Board; now, therefore, be it

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest to change the map or plan of The City of New York by changing the grades of Astoria Avenue between 8th Avenue and Steinway Avenue, and the grades of 9th Avenue between Vandeventer Avenue and Woolsey Avenue, in the Borough of Queens, City of New York, does hereby favor the same so as to make the aforesaid change in accordance with a map or plan bearing the signature of the President of the Borough, and dated December 9, 1913.

Which was adopted by the following vote:

Affirmative—The Mayor, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

Hearing in the Matter of Changing the Map or Plan of The City of New York by Modifying the Street Plan for the Territory Bounded by Astoria Avenue, 47th Street, Hayes Avenue, 48th Street, Fillmore Avenue, Alburis Avenue, Roosevelt Avenue and 45th Street, Borough of Queens (Cal. No. 10).

The Secretary presented affidavit of publication showing that the matter had been duly advertised in accordance with a resolution adopted by the Board on October 23, 1914 (Cal. No. 79).

No one appearing in opposition to or in favor of the proposed change, the hearing was closed.

The following was offered:

Whereas, At a meeting of this Board, held on the 23rd day of October, 1914, a resolution was adopted proposing to change the map or plan of The City of New York so as to change the lines of the street system within the territory bounded by Astoria Avenue, 47th Street, Hayes Avenue, 48th Street, Fillmore Avenue, Alburis Avenue, Roosevelt Avenue and 45th Street, in the Borough of Queens, City of New York, and appointing a hearing at a meeting of this Board to be held on the 20th day of November, 1914, at 10.30 o'clock a. m., at which meeting such proposed action would be considered by this Board, and requesting a notice to all persons affected thereby, of the aforesaid time and place at which such proposed action would be considered, to be published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, It appears from the affidavit of the Supervisor of the City Record that the aforesaid resolution and notice have been published in the CITY RECORD for ten days prior to the 20th day of November, 1914; and

Whereas, All persons interested in such proposed change were afforded an opportunity to be heard thereon, and such proposed change was duly considered by this Board; now, therefore, be it

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest to change the map or plan of The City of New York by changing the lines of the street system within the territory bounded by Astoria Avenue, 47th Street, Hayes Avenue, 48th Street, Fillmore Avenue, Alburis Avenue, Roosevelt Avenue and 45th Street, in the Borough of Queens, City of New York, does hereby favor the same so as to make the aforesaid change in accordance with a map or plan bearing the signature of the President of the Borough, and dated February 20, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

On Areas of Assessment for Benefit in Condemnation Proceedings.

Borough of Queens.

Hearing on the Proposed Area of Assessment in the Matter of Amending the Proceeding for Acquiring Title to Opdyke Street, from Corona Avenue to Tiemann Avenue, and to the Public Place Bounded by Corona Avenue, Opdyke Street and Alburis Avenue by the Exclusion of the Public Place and of the Block of Opdyke Street Between Corona Avenue and Alburis Avenue, Borough of Queens (Cal. No. 11).

The Secretary presented affidavit of publication showing that the matter had been duly advertised in accordance with a resolution adopted by the Board on October 23, 1914 (Cal. No. 80), and the following communication from the President of the Borough of Queens:

The City of New York, Office of the President of the Borough of Queens, Long Island City, November 14, 1914.

Board of Estimate and Apportionment, City of New York:

Gentlemen—Following the receipt of my communication of September 15, 1914, a resolution was passed by the Board of Estimate and Apportionment October 10, 1914, laying down the area of assessment for the opening of Opdyke Street, between Corona Avenue and Tiemann Avenue, Second Ward, Borough of Queens, which area of assessment extended to the west of Alburis Avenue, including within the area certain property that would have been included in the event that Opdyke Street was opened directly through Corona Avenue, instead of Alburis Avenue.

The property owners west of Alburis Avenue strongly object to the area of assessment going west of Alburis Avenue, first, because no benefit can very well be shown, and, secondly, because of the fact that they are included within the first area of benefit for the opening of Corona Avenue, and will, therefore, be within two areas of assessment. They argue, and I believe they are correct in their contention, that the assessment they will receive for the opening of Corona Avenue will be very large, and, for that reason, they should not be compelled to contribute to the cost of the opening of Opdyke Street.

With these contentions of the property owners I am fully in accord, and, therefore, request that the Board of Estimate and Apportionment at the hearing upon the said area of assessment cause the said area of assessment to be directed so that the same will not extend west of Alburis Avenue. Very truly yours,

MAURICE E. CONNOLLY, President of the Borough of Queens.

No one appearing in opposition to or in favor of the proposed area of assessment, the hearing was closed.

The President of the Borough of Queens stated that the area of assessment should stop at Alburis Avenue, and offered the following resolution:

Resolved, By the Board of Estimate and Apportionment of The City of New York, that the proceeding authorized by said Board on October 5, 1911, for acquiring title to Opdyke Street, from Corona Avenue to Tiemann Avenue, together with the Public Place bounded by Corona Avenue, Opdyke Street and Alburis Avenue, Borough of Queens, be and the same hereby is amended so as to relate only to Opdyke Street, from Alburis Avenue to Tiemann Avenue.

Resolved, That the Corporation Counsel be and he hereby is requested to take the necessary steps to have this amendment carried into effect; and

Whereas, Pursuant to a resolution adopted by the Board on October 23, 1914, due notice has been given in the CITY RECORD that the Board would consider a proposed modified area of assessment for the aforesaid proceeding as amended; and

Whereas, On the 20th day of November, 1914, a public hearing was given to all persons interested in such proposed modified area of assessment who appeared, and such proposed modified area of assessment was duly considered by this Board;

Resolved, That the modified district of assessment for benefit in this amended proceeding be and is hereby fixed and determined to be as follows:

Beginning at a point on a line midway between Nicolls Street and Opdyke Street distant 100 feet easterly from the easterly line of Tiemann Avenue, the said distance being measured at right angles to Tiemann Avenue, and running thence southwardly and parallel with Tiemann Avenue to the intersection with a line distant 100 feet southerly from and parallel with the southerly line of Opdyke Street, the said distance being measured at right angles to Opdyke Street; thence westwardly along the said line parallel with Opdyke Street to the intersection with the northerly line of Corona Avenue; thence westwardly along the northerly line of Corona Avenue to the intersection with the easterly line of Alburis Avenue; thence northwardly along the easterly line of Alburis Avenue to the intersection with a line midway between Nicolls Street and Opdyke Street; thence eastwardly along the said line midway between Nicolls Street and Opdyke Street to the point or place of beginning.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

On Franchises.

Manhattan Bridge Three Cent Line (Cal. No. 12).

The public hearing was opened on the form of contract modifying contract dated July 10, 1912, granting a franchise to the Manhattan Bridge Three Cent Line by substituting a new route on Fulton Street, Ashland Place and Lafayette Avenue, Borough of Brooklyn, for a portion of its existing route on Rockwell Place, Fourth and Atlantic Avenues.

At the meeting of November 13, 1914 (Cal. No. 2), the hearing was continued until this day.

An affidavit of publication of the notice of continued hearing was received from the CITY RECORD.

No one appeared in opposition to the proposed grant.

Almet R. Latson, Counsel for the Company, appeared in favor, and requested that the Committee on Franchises again take up the matter before presenting its report to the Board, as a slight misunderstanding existed as to what had been agreed upon.

The Mayor then stated the Committee on Franchises would hear the representatives of the Company at a meeting of said Committee on Monday, November 23, 1914, at 12 m.

The hearing was then continued until the meeting of Wednesday, November 25, 1914.

FIXING ROADWAY AND SIDEWALK WIDTHS.

Borough of Queens.

St. Felix Avenue from Alden Avenue to the Angle Point Between Cypress Avenue and Seneca Avenue, Borough of Queens—Fixing Roadway Width (Cal. No. 13).

The Secretary presented a communication dated October 5, 1914, from the President of the Borough of Queens, requesting special treatment of the sidewalk space in this street; and the following report of the Chief Engineer of the Board recommending approval thereof:

Report No. 14123.

November 5, 1914.

Hon. JOHN PURROY MITCHELL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the President of the Borough of Queens, bearing date of October 5, 1914, relative to a special roadway treatment for a portion of St. Felix Avenue.

This street has been laid out upon the City Map to have a width of 50 feet, and from Alden Avenue to the angle point between Cypress Avenue and Seneca Avenue has a position adjoining the right of way of the New York Connecting Railway and the Manhattan Beach Division of the Long Island Railroad. The street in this section has a length of 2½ blocks, or about 1,000 feet, and under the general rule the roadway should be 30 feet wide, centrally located.

The Borough President advises that when the street was laid out it was intended to give the roadway an eccentric position such that the sidewalk on the side adjoining the railroad would be limited to a width of 5 feet, and it is now requested that such a treatment be legalized.

I can see no reason why this should not be done and would recommend the adoption of a resolution fixing the width of the southeasterly sidewalk space in St.

Felix Avenue from Alden Avenue to the angle point between Cypress Avenue and Seneca Avenue at 15 feet, and the width of the northwesterly sidewalk space through this section of the street at 5 feet.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, By the Board of Estimate and Apportionment of The City of New York, that the width of the southeasterly sidewalk space in St. Felix Avenue, from Alden Avenue to the angle point between Cypress Avenue and Seneca Avenue, Borough of Queens, is hereby established at 15 feet; and the width of the northwesterly sidewalk space through this section of the street at 5 feet.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Potter Avenue from 2nd Avenue to Barclay Street, Borough of Queens—Fixing Roadway Width (Cal. No. 14).

The Secretary presented a communication dated September 19, 1914, from the Secretary to the President of the Borough of Queens, requesting that the width of the roadway in this street be established at 40 feet; and the following report of the Chief Engineer of the Board recommending approval thereof:

Report No. 14125.

November 14, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Secretary to the President of the Borough of Queens, bearing date of September 19, 1914, relative to a special roadway treatment for Potter Avenue from 2d Avenue to Barclay Street. The Board is advised that the change is desired in order to recognize such improvements as have heretofore been made.

This street has been laid out upon the City Map to have a width of 80 feet and between the limits named has a length of nine blocks, or a little more than one half mile located at the westerly end. Under the general rule the roadway should be forty-four feet wide.

An inspection of the ground shows that in the three blocks between 2d Avenue and Goodrich Street, and also in the block adjoining Barclay Street, Potter Avenue is graded, curbed and flagged with a roadway 40 feet wide. Between Van Alst Avenue and Goodrich Street a number of receiving basins have been built, these having a position apparently in harmony with the treatment now proposed.

In view of the conditions noted it would seem impractical to provide the roadway width contemplated for a street of this character without involving an expense for the reconstruction of existing improvements greater than would seem warranted by the small advantage to be gained. I would therefore recommend the adoption of a resolution fixing the roadway width of Potter Avenue from 2d Avenue to Barclay Street at 40 feet, the roadway to be centrally located.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, By the Board of Estimate and Apportionment of The City of New York, that the width of the roadway of Potter Avenue, from Second Avenue to Barclay Street, Borough of Queens, is hereby established at 40 feet; said roadway to be centrally located.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

APPROVAL OF MAPS AND PLANS.

Sewerage and Drainage Plans.

Borough of Brooklyn.

Map CC, District No. 49, Borough of Brooklyn—Modifying Drainage Plan (Cal. No. 15).

The Secretary presented a communication dated September 10, 1914, from the Acting President of the Borough of Brooklyn, transmitting plan showing the proposed modification; and the following report of the Chief Engineer of the Board:

Report No. 14112.

October 31, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Acting President of the Borough of Brooklyn, bearing date of September 10, 1914, requesting the approval of a modification in the drainage plan for Map CC, District No. 49.

This change consists of the provision of a storm water sewer on the southerly side of Surf Avenue, between West 36th Street and West 37th Street. Information is presented to show that under the plan as heretofore adopted it was proposed to carry the Surf Avenue drainage through this block to West 36th Street, where provision was made for the construction of basins. It has not been found practicable to accomplish this, owing to the flat grade fixed for Surf Avenue, and to overcome the difficulty it is now proposed to construct basins at West 37th Street and an independent sewer which will carry this drainage below the surface.

I see no reason why the map should not be adopted, and would recommend such action.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York hereby approves the modified drainage plan for Map CC, District No. 49, Borough of Brooklyn, showing the location, sizes and grades of a sewer on the southerly side of Surf Avenue, between West 36th Street and West 37th Street, bearing the signature of the President of the Borough and dated September 2, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Borough of The Bronx.

Woodlawn Heights Section, Borough of The Bronx—Drainage Plan Showing Sanitary Sewer (Cal. No. 16).

The Secretary presented a communication dated November 21, 1913, from the Commissioner of Public Works, Borough of The Bronx, transmitting drainage plan for a proposed sanitary outlet sewer; and the following report of the Chief Engineer of the Board:

Report No. 14149.

November 16, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Commissioner of Public Works, Borough of The Bronx, bearing date of November 21, 1913, requesting the approval of a drainage plan for the Woodlawn Heights sanitary outlet sewer.

This plan relates to the establishment of a sanitary trunk sewer extending through private property from Webster Avenue near its intersection with East 233d Street to the northerly boundary line of the City of New York which it meets at a point about 250 feet east of Webster Avenue, and thence in the City of Yonkers along Oakley Avenue and through private property to a junction with the Bronx Valley sewer at a point about 200 feet south of Wakefield Avenue and about 2,000 feet north of the City Line.

This sewer is intended to drain an area of about 366 acres within the City Limits, of which approximately 210 acres comprise the territory bounded by the Bronx River, East 233d Street, Mt. Vernon Avenue and the City Line, while the residue area lies east of the Bronx River and north of Nereid Avenue, and comprises a portion of the territory now tributary to the Williamsbridge outlet sewer. The low-lying territory situated immediately east of the Bronx River has been omitted from the drainage district because it is believed that this land either will be entirely utilized for railroad and park purposes, or can be drained directly into the Bronx Valley sewer through an independent connection.

On December 1, 1913, this office called the attention of the Commissioner of Public Works to the uncertainty of any authority being vested in the Board of Esti-

mate and Apportionment to approve the proposed plan or to make it one which could legally be carried out, basing this doubt upon a lack of authority for adopting a drainage plan for territory outside the limits of the City of New York, and upon the lack of authority for making use of the Bronx Valley sewer. In reply to this communication, the Commissioner of Public Works, on August 8, 1914, wrote as follows:

"I presume the Board of Estimate and Apportionment would have authority to approve this plan and assume that if the plan was adopted the sewer would not be built until the way was legally cleared for its construction and use. It is doubtful, however, whether this would be a good policy. Undoubtedly, the better course to pursue would be to have the way legally cleared first for the construction and use of the sewer before the plan was legally adopted by the Board of Estimate and Apportionment.

"There are two legal difficulties in the way:

"First—Whether any person, community, town or city has any legal right at the present time to use the Bronx Valley sewer. It is being used and permits for connecting with the same are being issued, I believe, by the City of Yonkers and other authorities, but whether there is a legal right to use this sewer is doubtful. I believe that there are still some suits pending against the use of this sewer.

"Second—If the Bronx Valley sewer can be legally used, then proper arrangements are still to be made between the City of New York and the authorities having jurisdiction over the Bronx Valley sewer for the use of this sewer by the City of New York for the drainage of Woodlawn Heights.

"I believe that the conditions existing at the present time should be terminated as soon as possible and that the sewer shown on the drainage plan submitted to your Board from this Borough on November 21, 1913, should be adopted as soon as possible and the construction of the sewer so shown be completed promptly. ***

"I would, therefore, urge as strongly as I can that this matter be brought officially before the Board of Estimate and Apportionment with a request that it be referred to the proper person or committee for a speedy solution of the present difficulties."

An investigation relative to the history of The Bronx Valley sewer yields the following apparently relevant facts:

On June 14th, 1895, the Legislature of New York State passed an Act known as Chapter 1021 of the Laws of 1895, entitled "An Act to create a Commission to inquire into the expediency of constructing a sewer and highway through the Counties of New York and Westchester along the Bronx River." In pursuance of said Act the Governor appointed five commissioners to inquire into the expediency of constructing a sewer along the valley and on the edge of the Bronx River through Westchester and New York Counties. This Commission made its report to the Legislature on March 6th, 1896, recommending a route which, crossing Pelham Bay, Rodman's Neck and City Island, had its outfall at High Island. This Commission appears to have gone out of office automatically, and nothing further seems to have been done in this matter prior to 1904, when Chapter 614 of the laws of that year constituted the Mayors of Yonkers and Mount Vernon and the President of the Village of White Plains a Commission to inquire into the necessity for the construction of a sewerage system for the valley of the Bronx River in the County of Westchester.

Chapter 646 of the Laws of 1905 provided for the construction and maintenance of a sanitary trunk sewer and a sanitary outlet sewer in the County of Westchester and provided means for the payment therefor. This Act laid out the general route of the sanitary trunk and the outlet sanitary trunk, fixing the outfall at "a point in the City of Yonkers in the Hudson River at least to the bulkhead line." The term of office of the Commissioners constituted by this Act was three years, at the end of which time their term of office and the office itself was to cease and determine.

Chapter 747 of the Laws of 1907 increased this term of office to four years, and Chapter 96 of the Laws of 1909 further increased this term to six years. Chapter 361 of the Laws of 1911 legislated this Commission out of office and provided for the constitution of a new Commission to hold office for two years, while Chapter 869 of the same laws made provision for "a suitable plan for settling, reducing or screening the sewage." Chapter 550 of the Laws of 1912 amplified the powers of the Commissioners and increased the appropriation. Chapter 417 of the Laws of 1913 increased the term of office to two years and eleven months. Chapter 487 of the Laws of 1914 modified the form of bond and the permissible tributary area. This last appointed Commission automatically went out of office on May 26th, 1914, and their prerogatives and duties passed, in accordance with the provisions of the above enumerated Acts, into the hands of the Supervisors of Westchester County who, on July 6th following, transferred these prerogatives and duties to a committee of which Mr. Clarence Alexander of Yonkers is Chairman.

In October, 1908, a complaint in equity was instituted before the Supreme Court of the United States by the Federal Government against the people of the State of New York and the Commissioners of the Bronx Valley Sewer. This complaint is still pending but has not been pressed since July, 1912, when the following stipulation and agreement became effective:

"In order to end the present controversy and to secure permission to complete the sewer beyond the bulkhead line as was originally contemplated, and with the desire on the part of the United States ultimately to bring about adequate purification of the Hudson River, the following stipulation and agreement has been entered into by and between the United States and Frank Jerome Hoyle, Henry C. Merritt and John L. Hayes, as members of the Bronx Valley Sewer Commission, acting in behalf of themselves and of their successors in interest and control:

"First: The Bronx Valley Sewer Commissioners at once will begin the installation of a plant for the partial purification of the effluent of the Bronx Valley sewer system by screening and sedimentation with an efficiency sufficient to remove and which shall at all times remove from said effluent enough of the putrescible contents to purify the same to the extent of 10% upon an absolute putrescibility scale. This plant shall be completed and put into operation on or before the first day of May, 1913; and it or one not less efficient shall be kept in continuous operation producing at least the results above specified so long as the Bronx Valley sewer continues in use.

"Second: At all times during the operation of the Bronx Valley sewer system, in addition to those specified in the paragraph immediately above, the requirements enumerated under the seven heads immediately following will be met either through the plant and installations above called for or through requisite additional arrangements:

"(1) There will be absence in the Hudson River of suspended particles visible to the naked eye coming from the effluent of said sewer.

"(2) There will be absence of deposits in the waters of the Hudson River coming from the effluent of said sewer which the Secretary of War of the United States, exercising a reasonable discretion, may find objectionable.

"(3) There will be absence in the waters of the Hudson River and its vicinity of any odor due to the putrefaction of organic matter contained in the effluent of said sewer which the Secretary of War, exercising a reasonable discretion, may find objectionable.

"(4) There will be a practical absence on the surface of the Hudson River, at the dispersion area or elsewhere, of any grease or color due to the discharge of said sewage.

"(5) There will be no public or private nuisance occasioned by the discharge from the said sewer.

"(6) The effluent from said sewer shall not injuriously affect property of the United States situated in the Hudson River.

"(7) There shall be excluded from the sewer all refuse matters of the classes forbidden by law to be discharged into the navigable waters of the United States.

"Third: At any time subsequent to January 1st, 1917, or to the date when there shall be 50,000 persons contributing sewage to said sewer—whichever date first arrives—the Secretary of War of the United States may designate a board of three men, which shall make inquiry into the pollution of the Hudson River by the presence therein of sewage, filth and refuse matter, and upon a view of the facts and circumstances thought to deserve consideration, this board shall determine and thereafter report to him what, if any, purification of the effluent of the Bronx Valley sewer, in addition to that specified in the foregoing sections of this stipulation, and irrespective of what others in fact may be doing towards bringing about the end desired, ought to be required in order to impose upon said sewer, its managers and the territory served by it, the performance of their just, fair and equitable part of whatever may be necessary for the restoration and

maintenance of the waters of the Hudson River to and in such degree of purity as will render them adequate for the support of shad and other major fish life.

"After receiving the report of this board, the Secretary of War may from time to time direct such further degree of purification of the effluent of the Bronx sewer not in excess of the findings of the board as he may think proper; and within two years after receiving such directions the Bronx Sewer Commissioners or their successors in control shall cause the same to be brought up to the required standard.

"The Board of three appointed by the Secretary of War shall include one member designated by the Bronx Valley Sewer Commissioners or their successors, provided he be named within thirty days after request therefor, and provided further that all expenses incident to his services shall be borne by those in whose behalf he is designated. A majority of the board may act and a report concurred in by two members shall be the report of the board.

"Fourth: At all times hereafter, through such representatives as may be designated, the Secretary of War of the United States shall have full opportunity to inspect the construction of the proposed purification plant and the condition and working of the entire sewer system, in order to determine whether the terms and provisions hereof are being observed in all respects; and to this end the Commissioners will render such expert or other assistance as he may request. Said Secretary at all times shall have the right to decide whether such terms and provisions are being complied with; and upon notice from him that they are not, the Commissioners or their successors shall forthwith do whatever may be necessary in order to effect compliance therewith.

"Fifth: Full compliance at all times with the terms and requirements of this stipulation shall be and remain the express condition of any permits issued by or on the part of the United States for the construction and future maintenance and operation of the Bronx Valley sewer or any part thereof.

"Sixth: This stipulation shall not become effective unless and until all such permits as may be requisite under the statutes of the United States for the construction, maintenance and operation of said sewer, according to the plans and specifications heretofore prepared, are actually obtained or unless or until such permits are made conditional upon compliance at all times with all the terms thereof.

"Seventh: As soon as the permits contemplated in the section immediately preceding have been issued and this agreement, properly executed, has been filed in the office of the Clerk of the Supreme Court as a stipulation between the parties in the above entitled cause, the United States will cause the bill of complaint to be dismissed, but without prejudice.

"Eighth: Nothing herein contained shall hinder or interfere with the assertion or execution by the United States of their rights and powers granted by the Constitution or Statutes."

It does not appear that this agreement has been lived up to by the Commissioners or by their successors, but that advantage has been taken by them of all of the privileges granted without performance of the stipulated obligations; neither does it appear that the Federal Government has succeeded in enforcing these obligations, basing its inaction apparently on the belief that until conditions at the outfall become more seriously objectionable prohibition of use would introduce unjustifiable nuisances elsewhere.

The articles of the constituted Acts noted above which have a legal bearing on the consideration of the proposed plan are apparently the following sections:

Section 3, as Amended on April 16, 1912.

"Section 3. *** It shall be the duty of the commissioners appointed under the provisions of chapter three hundred and sixty-one of the laws of nineteen hundred and eleven to prepare a map showing the lands included within the sewage area of said proposed sewers which, when completed, shall be signed by and remain on file in the office of said commissioners and be open to public inspection. Upon filing such map the commissioners shall fix a time and place within the county of Westchester where all property owners shall have an opportunity to be heard and make objection as to the area benefited as shown on said map. Notice of the time and place of such meeting shall be given by the commissioners by notice published at least one week before the time fixed for the meeting, in a newspaper published in the city of Mount Vernon, and also in a newspaper published in the city of Yonkers and in the village of White Plains. After such hearing should the commissioners determine on any change as to the area benefited they shall cause the map showing the area benefited to be amended in accordance therewith, and file the same in the office of the supervisors of Westchester county, and a copy thereof certified by them in the office of the county clerk of Westchester county. When completed and filed as above provided such map shall supersede any map or maps now on file showing the lands within such sewerage area, and have the same force and effect as if prepared and filed, in accordance with the provisions of section two of this act."

Section 14, as Amended on April 22, 1914.

"Section 14. To pay the cost of construction of the sanitary trunk sewer and outlet sewer herein provided for and the cost of construction of a suitable plant for settling, reducing and screening the sewage to pass through said outlet sewer, which plan said commissioners are hereby authorized to cause to be constructed and to pay the cost of operation of same as hereinafter provided and to pay all the expenses and liabilities lawfully incurred by the said sewer commissioners and their duly appointed successors, including the sums paid or necessary to pay for lands and easements acquired and obtained in accordance with the provisions of this act, the amounts of temporary certificates or loans issued or to be issued or secured by the county of Westchester to pay the interest on bonds issued under the provisions of this act prior to the levy of the first assessment hereunder, the county of Westchester is hereby authorized to issue in the name and under the seal of the said county, in behalf of the district laid out on the plan and map approved under section two of this act, as modified by this act, its bonds in addition to the amounts which it is now authorized to raise, in such sum or sums as shall equal the entire cost of the sewer hereunder, and all temporary certificates issued or to be issued by the county treasurer not to exceed three million eight hundred and sixty-six thousand one hundred and seventy dollars not including, but in addition to, such sums as may be or may have been received for accrued interest on deposits or premiums on sales of such bonds heretofore made or hereafter to be made. Such bonds and interest to be payable by their terms by assessment and levy of taxes upon the real property laid out on the plan and map approved. ***

"And for the purpose of raising money to meet said bonds and the interest thereon, and for the maintenance of said sewer and the cost of maintaining and operating the plant for settling, reducing or screening the sewage to pass through said outlet sewer the supervisors of the county of Westchester shall annually, at the time the general tax levy is made, levy upon the real estate in each municipality within the area described and set forth in the maps and plans filed under section two hereunder as modified by this act, the proportion in which the assessed valuation of the real estate within such area bears to the assessed valuation of the entire property shown and laid out on the maps aforesaid. And the local authorities of each municipality shall assess such amount pro rata on the real estate within the area benefited shown on the plans and maps aforesaid, equalized as herein provided within each municipality as modified by this act, based on the assessed valuation of real property within such area; and said local assessment shall be subject to a hearing and grievance day, as other assessments in such municipality, and the said taxes so levied shall be collected in the same manner as other taxes are levied and collected in said towns and cities and villages. *** The board of supervisors, at their annual meetings, held after the completion and filing of the map showing the area benefited as provided in this act, shall examine the assessment-roll of the several towns and cities lying within said sewerage area for the purposes of ascertaining whether the valuation of the real estate lying within the area in one town or city bear a just relation to the valuation of the real estate lying within the sewerage area in all the towns and cities in said county within said sewerage district, and they may increase or diminish the aggregate valuations of real estate in such sewerage area in each town or city by adding or deducting such sum upon the hundred as may, in their opinion, be necessary to produce a just relation between all the valuations of such real estate within said sewerage area, but they shall in no instance reduce the aggregate valuations thereof made by the local assessors. *** said commissioners, their successors, or the board of supervisors, as the case may be, are hereby authorized and directed to permit such additional territory within the city of Mount Vernon to sewer into said sanitary or outlet sewer any lands of the said city

of Mount Vernon lying outside of the natural sewerage area as modified by this act of the Bronx River within such limitations, and any lands of each town and city in the Bronx river valley outside the natural sewerage area of the Bronx river shown on the map filed by the commissioners as required by this act which may become connected with the sanitary trunk sewer in said valley or with said outlet sewer from the Bronx valley to the Hudson river, or have the use thereof for sewerage shall be included in the sewerage area of such town or city as lands benefited by said sewerage system and be subject to levy and assessment as provided in this act, and subject to such terms and conditions as may be made by said commissioners or their successors in office. *** The county treasurer of the county of Westchester is authorized, empowered and directed, during the construction of the said sewers by the sewer commissioners and until the same are completed, upon the demands of the said commissioners hereunder to make temporary loans and issue temporary certificates for the purpose of paying for the construction of said sewers, and all incidental expenses connected therewith, to carry out the provisions of this act; said certificates of indebtedness to be duly signed by the chairman of the board of supervisors and the county treasurer of said county. Said certificates to be payable on or before the completion of the work hereunder and to be included within the amount of bonds herein prescribed; and said certificates shall not bear interest at a rate to exceed six per centum per annum. Said temporary certificates of indebtedness shall be payable only out of the proceeds of sale of bonds, or be payable only out of taxes levied and collected or to be levied and collected from the taxable property within the sewerage district as constituted by this act."

Section 17, as Amended on April 30, 1913.

"Section 17. *** After the completion of the sanitary outlet sewer to a point in the Hudson river at or beyond the bulkhead line as established by the United States war department the sewer commissioners may grant permits for and authorize the use of such portions of the sanitary trunk sewer as may be completed, under such rules and regulations as they may prescribe, and upon the completion of the settling, reducing or screening plant herein authorized to be constructed the same shall be operated by the sewer commissioners until the entire sewer and settling, reducing or screening plant have been turned over to the Board of supervisors as provided in this act."

Section 19, as Amended on August 19, 1911.

"Section 19. At the completion of the sewers and the end of the term of office of the said sewer commissioners and their duly appointed successors, all books, papers and contracts shall be turned over to the county treasurer of Westchester county and remain on file in his office, and thereafter said sewers so constructed shall be in the control of the board of supervisors of Westchester county, and they shall have power annually to assess the proportionate cost of the maintenance of the said sewers upon real estate within the sewer district in the manner herein prescribed, as to assessing the cost of the sewer itself."

From a study of these acts it is not clear that there is any legal right under which the City could connect with or use the Bronx Valley sewer, but even if permission could be obtained for making such connection through the payment of a pro rata share of the expense of construction, maintenance and operation, such action would apparently result in the City of New York automatically relinquishing its right to join the Federal Government as co-complainant in the pending action against the Sewer Commission, a surrender which would seem to be inadvisable.

I would recommend that this matter be referred to the Corporation Counsel with the request that he advise the Board as to the City's status both as to pending litigation and as to the legality of attempting to carry out the plan submitted by the Commissioner, with the further request that in case he deems it is or can be made lawful to drain an area within the City limits into the Bronx Valley sewer, he outline the proper procedure to be followed in bringing it about.

Respectfully,
NELSON P. LEWIS, Chief Engineer.

On motion the matter was referred to the Corporation Counsel.

Borough of Queens.

Sewerage District No. 40-A, Borough of Queens—Modifying Drainage Plan (Cal. No. 17).

The Secretary presented a communication dated September 24, 1914, from the Secretary to the President of the Borough of Queens, transmitting plan showing the proposed modification; and the following report of the Chief Engineer of the Board:

Report No. 14133.
November 9, 1914.
Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Secretary to the President of the Borough of Queens, bearing date of September 24, 1914, requesting the approval of a modification in the drainage plan for Sewerage District No. 40-A.

This plan relates to the sewers in the block of Cedar Avenue, from Chichester Avenue to Beaufort Avenue, and in the block of Beaufort Avenue, from Cedar Avenue to Stoothoff Avenue. On the plan heretofore adopted, the sewers in both of these streets were made tributary to the Stoothoff Avenue sewer at its junction with Beaufort Avenue. The modification now proposed provides for outletting the Cedar Avenue sewer into one in Chichester Avenue, thereby clearing the way for its early construction, title to the land in Beaufort Avenue not having been acquired and an objection having been raised to the institution of an opening proceeding by reason of the large expense which would be involved. The depth of the Cedar Avenue sewer under the plan now proposed is less than would ordinarily be desired, but the existing conditions do not appear to be suited for any other treatment.

I believe that the plan may properly be approved, and would recommend such action. Respectfully,
NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York hereby approves the modified drainage plan for Sewerage District No. 40-A, Borough of Queens, showing the location, sizes and grades of sewers in Beaufort Avenue, between Cedar Avenue and Stoothoff Avenue, and in Cedar Avenue, between Beaufort Avenue and Chichester Avenue, bearing the signature of the President of the Borough and dated September 1, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

REPORTS.

From Standing Committees.

Committee on the City Plan.

Public Service Commission for the First District—Repaving of Streets Affected by Subway Construction (Cal. No. 18).

(On July 30, 1914 (No. 405), a communication from the Public Service Commission, relative to this subject, was referred to the Committee on City Plan, as was also a supplemental communication from the Public Service Commission on August 27, 1914 (Cal. No. 104).)

The Secretary presented the following communications from the Public Service Commission and reports of the Committee on City Plan and Sub-Committee of Engineers.

State of New York, Public Service Commission for the First District, 154 Nassau Street, New York, July 29, 1914.

Board of Estimate and Apportionment of The City of New York:

Under date of April 30, 1913, the Commission wrote your Honorable Board in reference to the matter of repavement in connection with subway construction. As set forth in that communication, the contracts advertised by the Commission on or about September 1, 1910, for the construction of various sections of rapid transit railroads contained provisions insisted upon by representatives of your Board that in lieu of the previous practice of requiring subway contractors to restore street pavements to a condition similar to and equally as good as that existing at the time construction began, a new plan was adopted which involved having the subway contractor lay and maintain a pavement of granite blocks to be furnished without charge by the borough authorities and that thereafter the permanent repavement should be done under the direction of the borough authorities and the estimated cost thereof, less the cost of laying and maintaining such temporary pavement, should be

charged to the rapid transit account. When this plan was suggested to the representatives of the Commission for incorporation in the contract, they protested against it on the ground that the cost of laying and maintaining a temporary pavement would equal or exceed the cost of a permanent pavement, but allowed the new plan to go into the contracts upon the assurance that the cost of such temporary pavement would be deducted from the amount chargeable to the rapid transit account and on the ground also that the matter of repavement was one which primarily concerned the borough authorities. The results under the contract demonstrated that the views of the Commission's representatives were correct, the prices for the temporary pavement generally exceeding what it would usually cost for the permanent pavement. When the time came to take up the matter of permanent pavement there was a denial of the requirement that the cost of the temporary pavement should be deducted in ascertaining the amount to be chargeable to the rapid transit account and accordingly under date of April 30, 1913, the Commission wrote your Honorable Board calling this matter to its attention and stating that in view of this denial it was necessary to go back to the original practice of having the contractor put in the final pavement and also calling the attention of your Honorable Board to the fact that it was estimated that the plan calling for a temporary and final pavement in these contracts involved a loss to the City of approximately \$500,000.

The Commission is now informed by its Chief Engineer that several of the contractors have applied to the Bureau of Highways of the Borough of Manhattan for granite blocks for use in the temporary pavement and have been unable to obtain them. The Chief Engineer accordingly wrote to the President of the Borough of Manhattan calling attention to the specifications of the contracts, explaining that these provisions were inserted at the request of the engineers representing the Transit Committee of the Board of Estimate and Apportionment, and asked to be advised if the borough authorities could furnish the granite blocks. Under date of July 1, 1914, the Chief Engineer was definitely informed by the Acting President of the Borough of Manhattan that he was unable to furnish the blocks required for the temporary pavement.

It therefore becomes necessary for the Commission to purchase these granite blocks despite the express statement on the part of those acting for your Honorable Board that these blocks would be furnished to the subway contractors by the City without charge. This will further increase the loss due to the adoption of the repaving plan referred to. Very truly yours,

TRAVIS H. WHITNEY, Secretary.

Public Service Commission for the First District, 154 Nassau Street, New York, August 6, 1914.

Board of Estimate and Apportionment of The City of New York:

Dear Sirs—As already set forth in previous correspondence between this Commission and your Honorable Board, the arrangements for paving agreed on in the summer of 1910 with the representatives of the Transit Committee of the Board of Estimate and Apportionment, and carried into the subway construction contracts advertised about September 1, 1910, involved the laying by the contractor of a temporary pavement and the maintenance of same for a period of six months. Thereafter, the borough authorities were to lay a permanent pavement and the cost thereof, less any amounts paid for the laying and maintenance of the temporary pavement, was to be charged to the rapid transit account. This provision that the cost of laying and maintenance of the temporary pavement should be deducted in ascertaining such amount was the main consideration that induced the representatives of the Commission to agree to the plan proposed on behalf of the Transit Committee. The arrangement for such deduction has, however, been repudiated, and the whole plan has therefore fallen through. On April 30, 1913, the Commission wrote to your Honorable Board calling its attention to the situation, but no reply seems to have been received.

On July 29, 1914, the Commission wrote to your Honorable Board informing it of the facts in connection with the necessity for the purchasing of granite blocks for temporary paving owing to the failure of the Bureau of Highways of the Borough of Manhattan to supply the same in accordance with the arrangement.

The Commission is informed by its Chief Engineer that the maintenance period has expired as to a considerable number of streets and the continuance of the temporary pavement is and will continue to be a source of serious inconvenience and annoyance to abutting property owners and the general public, and that it is impracticable to keep the temporary pavement in a proper condition indefinitely without adding considerably to the cost of maintenance. The Commission is obliged to act promptly in this matter and has therefore authorized its Chief Engineer to direct the contractors for the several sections of Route No. 5 of the Seventh Avenue-Lexington Avenue Rapid Transit Railroad to do the work and supply the materials incidental to the permanent repaving of the streets in question. Very respectfully,

TRAVIS H. WHITNEY, Secretary.

Committee on the City Plan of the Board of Estimate and Apportionment, Room 501, Municipal Building, November 16, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—At the meeting of the Board of Estimate and Apportionment held on July 30, 1914, a communication from the Public Service Commission relative to the repaving of streets in which subways have been completed, was referred to the Committee on the City Plan.

The Committee has given this matter very serious consideration and has had conference with representatives of the Public Service Commission. The Committee has reached the conclusion that in the contracts under discussion the cost of both the temporary and of the permanent pavement should be met by the Public Service Commission as a part of the expense of subway construction. This, however, assumes that the new permanent pavement is of the same general character as the pavement originally replaced. In certain cases the borough authorities preferred to have the old pavement replaced by a pavement of a better and more expensive type. If a permanent pavement of a better and more expensive type is laid, the excess of cost occasioned thereby should be met from the borough repaving funds.

In order that the Committee might have cost data in relation to the construction of various types of pavement, the Committee appointed a sub-committee of engineers, consisting of the Chief Engineer of the Board of Estimate and Apportionment, Deputy Consulting Engineer of the Borough of Manhattan, Consulting Engineer of the Borough of The Bronx, and the Engineer and Deputy Engineer of Subway Construction of the Public Service Commission. This sub-committee submitted a report, dated October 26, 1914, in which the sub-committee agrees upon an estimate of the cost per square yard for laying and maintaining for a period of six months temporary pavement and also for the laying of permanent pavement of various types on a concrete foundation.

Your Committee believes that the proper interpretation of what is meant by requiring a contractor "to restore the surface to a condition similar to and equally as good as that existing previous to the commencement of construction," means not only the furnishing of the pavement with the same kind of surface as that which previously existed, but with a foundation capable of sustaining such pavement in view of the recent disturbance of the underlying earth. It is the opinion of the engineers of the City that this will require in every case, except that of granite block on sand, a pavement laid with a concrete foundation.

Your Committee recommends that in estimating the excess cost occasioned by a betterment in the type of pavement, the unit figures contained in the report of the sub-committee, herewith submitted, as to estimated cost per square yard for the various types of pavement be accepted as the basis for apportionment of cost between the borough authorities and the Public Service Commission.

Respectfully submitted, GEORGE MCANENY, President, Board of Aldermen, Chairman; MARCUS M. MARKS, President, Borough of Manhattan; LEWIS H. POUNDS, President, Borough of Brooklyn; DOUGLAS MATHEWSON, President, Borough of The Bronx; MAURICE E. CONNOLLY, President, Borough of Queens; C. J. McCORMACK, President, Borough of Richmond; Committee on City Plan.

New York, October 26th, 1914.

To the Committee on City Plan of the Board of Estimate and Apportionment:

Gentlemen—At a meeting of your Committee held on October 16th, the question of the fair value of laying and maintaining, by the Public Service Commission, of temporary pavement of granite blocks over completed subways and of the laying of a permanent pavement in place of such temporary pavement, was referred to a committee consisting of Mr. Robert Ridgway, Engineer of Subway Construction; Mr. D. L. Turner, Deputy Engineer of Subway Construction, Public Service Commission; Mr. A. L. Schaeffer, representing the Borough of Manhattan, and Mr. J. W. F. Bennett, representing the Borough of The Bronx, and the Chief Engineer of the Board of Estimate and Apportionment. This Committee has had two sessions at which these questions were discussed in considerable detail, has secured such information as it could in the time at its disposal, and submits herewith its conclusions.

It was agreed that a fair estimate of the cost of laying temporary pavement of granite blocks over completed subways in the streets of the Borough of Manhattan, and maintaining that pavement for a period of six months, is \$1.20 per square yard, and that where there is a shortage of blocks and it is necessary for the Public Service Commission or its contractor to buy them elsewhere, the cost is 50 cents more, or \$1.70 per square yard.

It was agreed that in the Borough of The Bronx, where the cost of such work is admittedly less, a fair price for the laying of such temporary pavement and maintaining it for six months is 90 cents per square yard, with the same additional allowance of 50 cents per square yard where blocks have to be purchased to make good a shortage for which the Public Service Commission or its contractor is not responsible, making the price in this case \$1.40 per square yard.

There was some difference of opinion as to the proper interpretation of what is meant by requiring the contractor "to restore the surface to a condition similar to and equally as good as that existing previous to the commencement of construction." The Engineers of the Public Service Commission are inclined to construe this as calling simply for a pavement not only of the same character of surface, but with the same foundation as that which existed prior to the commencement of subway building. Representatives of the Boroughs of Manhattan and The Bronx and the Chief Engineer of the Board are of the opinion that it means not only the furnishing of a pavement with the same kind of surface as that which previously existed, but with a foundation capable of sustaining that pavement, in view of the recent disturbance of the underlying earth; in other words, if there was a sheet asphalt pavement laid on old granite blocks it would not be a proper compliance with the spirit of the specification if old granite blocks were again put down over the freshly filled trenches, but that a concrete foundation should be substituted for the old stone blocks in order that the bearing power of the new foundation would be approximately the same as it formerly was before the disturbance of the underlying earth. If this construction of the specifications prevails, the cost of laying and maintaining the temporary pavement should be compared with the cost at the present time of laying a pavement of the type which previously existed on these streets, on a concrete foundation.

The Committee was furnished with information as to the contract prices for the various kinds of pavements laid in the Boroughs of Manhattan and The Bronx during the present year, and in the light of this information the Committee agreed upon the following values for various kinds of pavement which have been disturbed in the construction of subways in these two Boroughs:

Borough of Manhattan.

Granite Block on Sand Foundation:

It was agreed that the figures heretofore used for the replacement of the old granite blocks and maintaining them for six months would be the fair measure of the cost of restoring the pavement to at least as good condition as it was in when the work was undertaken, provided that at the expiration of the six months period the contractor shall bring the pavement surface to a proper crown in conformity with the curb as reset or readjusted, and with railroad tracks, where there are tracks, at their new grades, if the grades shall have been changed; such price being \$1.20 per square yard where no blocks are furnished, and \$1.70 per square yard where the contractor or the Public Service Commission is obliged, through no fault or negligence of their own, to furnish additional blocks.

Granite Block on Six-Inch Concrete Foundation:

The cost of restoration agreed upon is based upon \$1 per square yard for concrete foundation; \$1 per square yard for relaying the old blocks, and 50 cents per square yard for pitch and gravel joints, a total of \$2.50 per square yard. This amount would be \$1.30 more than the cost of the temporary pavement and its maintenance where the blocks were available, and 80 cents more than where they had to be supplied by the Public Service Commission or its contractor.

Wood Block Pavement on Six-Inch Concrete Foundation:

Cost based upon 1914 contracts let in the Borough of Manhattan, \$3.64, this being \$2.44 over and above the value agreed upon for temporary pavement, when blocks are available, and \$1.94 per square yard when blocks have to be furnished.

Sheet Asphalt Pavement on Concrete Foundation:

It was agreed that whether sheet asphalt pavement was laid on an old block pavement or on a concrete foundation, the only satisfactory method of laying permanent pavement is with a concrete foundation not less than six inches in thickness. The cost of this work, based upon recent contracts in the Borough of Manhattan, is \$2.28 per square yard, this being \$1.08 more than the cost of laying and maintaining temporary pavement, where blocks are available, and 58 cents per square yard more than where blocks have to be supplied.

Asphalt Block on Concrete Foundation:

Value, based upon Manhattan price, \$2.87 per square yard, being \$1.67 more than the estimated value of the temporary pavement maintained for six months, where no blocks are furnished, and \$1.17 where blocks are furnished.

Borough of The Bronx.

Granite Block on Sand Foundation:

As in the case of the Borough of Manhattan, it was agreed that the figures heretofore used for the replacement of the old granite blocks and maintaining them for six months would be the fair measure of the cost of restoring such pavement to as good condition as it was in when the work was undertaken, such price being 90 cents per square yard, where no blocks are furnished, and \$1.40 per square yard, where blocks have to be supplied.

Granite Block on Six-Inch Concrete Foundation:

The cost of this work should be estimated on the same basis as in the Borough of Manhattan, viz., \$2.50 per square yard. The cost of the permanent pavement would in this case be \$1.60 more than the cost of the temporary pavement and its maintenance for six months, where the blocks were available, and \$1.10 more where they had to be supplied by the Public Service Commission or its contractor.

Sheet Asphalt Laid on Concrete Foundation:

As in the case of the Borough of Manhattan, it was agreed that sheet asphalt pavement should be laid on concrete whether the old foundation was of concrete or granite block. The cost of this work, based upon recent contracts in the Borough of The Bronx, is \$1.90 per square yard, or \$1 a yard more than the cost of laying and maintaining temporary pavement, where old blocks were available, and 50 cents a yard more where old blocks had to be supplied.

Asphalt Block on Concrete Foundation:

The cost of this work as determined by recent contracts in the Borough of The Bronx is \$2.81 a square yard, this being \$1.91 more than the cost of laying and maintaining temporary stone pavement where old blocks are available, and \$1.41 more where it was necessary to supply the blocks.

No wood block pavements were disturbed in the Borough of The Bronx.

Considerations which will apply to both Boroughs of Manhattan and The Bronx:

It was agreed that while the Engineers of the Public Service Commission have furnished the estimated quantity of pavement to be restored, in each case these figures are subject to revision to correspond with final estimates for completed work.

Other questions considered by the Committee and upon which there was substantial agreement were the following:

Where there are surface railroad tracks the railroad company owning them cannot be called upon to restore the pavement between their tracks, they being in no way responsible for its disturbance; this cost should be met by the Public Service Commission as part of the expense of subway construction.

The Borough Presidents to assume responsibility for the maintenance of the streets at the expiration of six months after the laying of temporary pavements, provided the pavements shall at that time have been placed in as good condition as the type of pavement permits, with proper cross-section and the surface adjusted to the restored curb lines and railroad tracks, if there are tracks.

The Borough authorities are to construct the permanent pavement where the type of pavement is to be changed, this work to be done under their own specifications and contracts, and no part of the administrative expenses or overhead costs to be charged to the Public Service Commission.

The contracts entered into by the Public Service Commission, containing the provisions which gave rise to this controversy, are confined to the Boroughs of Manhattan and The Bronx, so that no reference to conditions in other Boroughs is called for.

Respectfully,
NELSON P. LEWIS, Chief Engineer, Board of Estimate and Apportionment; AMOS SCHAEFFER, Deputy Consulting Engineer, Borough of Manhattan; J. W. F. BENNETT, Consulting Engineer, Borough of The Bronx; ROBERT RIDGWAY, Engineer of Subway Construction, Public Service Commission; D. L. TURNER, Deputy Engineer of Subway Construction, Public Service Commission.

The representatives of the Public Service Commission are advised that there may be legal difficulties in the way of turning over rapid transit funds for disbursement by the borough authorities, but that the same practical result can probably be accomplished by a somewhat different method, which will, in effect, carry out the spirit of the above arrangement. ROBERT RIDGWAY, D. L. TURNER.

Dated October 29th, 1914.

In view of the legal difficulties which may exist in the way of turning over Rapid Transit funds for disbursement by the Borough authorities, the representative of the Borough of Manhattan maintains that the Borough authorities should be responsible only for the maintenance of so much of the temporary pavement as they will restore permanently. AMOS SCHAEFFER.

The President of the Board of Aldermen moved that the reports of the Committee and Sub-committee be approved.

Which motion was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Committee on Corporate Stock Budget.

Department of Docks and Ferries—Issue of Corporate Stock (Cal. No. 19).

The Secretary presented a report of the Committee on Corporate Stock Budget, recommending an issue of \$50,000 corporate stock for the purpose of providing means for the payment of awards, costs and expenses in the proceeding to acquire property for a terminal station adjacent to the proposed Barge Canal Terminal at South Brooklyn and in the proceeding to acquire title to the property between West 44th and West 48th Streets, North River, for the uses and purposes of the Department of Docks and Ferries.

(On October 2, 1914, the request of the Commissioner of Docks for the above appropriation was referred to the Committee on Corporate Stock Budget, as was also, on November 13, 1914 (Cal. No. 86), resolutions adopted by the Commissioners of the Sinking Fund on November 4, 1914, recommending this appropriation.)

Which was laid over until November 25, 1914, under Rule 19.

Department of Water Supply, Gas and Electricity—Issue of Corporate Stock (Cal. No. 20).

The Secretary presented a report of the Committee on Corporate Stock Budget recommending an authorization of \$490,000 corporate stock for Water Supply purposes, as follows:

Extension and improvement of distribution system—
Boroughs of Manhattan and The Bronx..... \$175,000 00
Borough of Brooklyn 80,000 00
Connections between present distribution system and shafts of the
Catskill Aqueduct 235,000 00

The expenditure of \$255,000 for extension and improvement will provide service for new buildings, and will result in immediate additional revenue.

It will be necessary to expend the \$235,000 to connect the present water supply system to the new Catskill Aqueduct during the coming year, so as to utilize the additional supply as soon as it is available. This will permit of the discontinuance of all of the pumping stations, except 179th Street.

(On July 2, 1914 (Cal. No. 318), the request of the Commissioner of Water Supply, Gas and Electricity for an appropriation of \$640,000 for the above purposes, was referred to said Committee.)

Which was laid over until November 25, 1914, under Rule 19.

Fire Department—Issue of Corporate Stock (Cal. No. 21).

The Secretary presented a report of the Committee on Corporate Stock Budget recommending an authorization of \$308,000 corporate stock for the purchase of motor apparatus for the Fire Department, as follows:

Tractors and tenders for present apparatus..... \$185,000 00
Apparatus for new companies..... 123,000 00

This apparatus will be required to equip a number of new companies, and to replace the usual quota of horse loss during 1915.

The request was for \$560,500, but the recommendation is based upon an estimate made after considering an offsetting reduction in double companies and the possibility of utilizing in the new companies motor engines now located in the high pressure zones.

(On July 9, 1914 (Cal. No. 234), the request of the Fire Commissioner for an issue of \$560,500 corporate stock for the above purpose was referred to said Committee.)

Which was laid over until November 25, 1914, under Rule 19.

Committee on Salaries and Grades.

Classification and Standardization of Employment Under City Government and Establishment of Uniform Salary Rates (Cal. No. 22).

The Secretary presented a report of the Committee on Salaries and Grades, submitting report of the Director of the Bureau of Standards on the classification and standardization of employment in the government of the City of New York, together with the general plan for establishing uniform salary rates to be paid the incumbents of positions under definite work specifications.

This plan includes also studies of functional organization throughout the City government, as the basis for better and more economical methods of doing the City's work.

The Committee recommends the adoption of a resolution approving the report and instructing the Director of the Bureau of Standards to proceed with the work of standardization along the lines indicated therein.

Which was laid over for two weeks (December 4, 1914).

Department of Correction—Modification of Schedule (Cal. No. 23).

The Secretary presented a communication dated October 26, 1914, from the Commissioner of Correction, requesting the modification of a schedule for 1914; and the following report of the Committee on Salaries and Grades, recommending approval thereof:

City of New York, Board of Estimate and Apportionment, Municipal Building, Bureau of Standards, November 5, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On October 26, 1914, the Commissioner of Correction requested revision of a schedule of salaries for the year 1914. The request was referred to the Committee on Salaries and Grades on October 27. The Bureau of Standards reports thereon, under date of October 30, as follows:

"In Personal Service, Salaries Temporary Employees, Prison Service, Care of Plant and Inmates, No. 2639, City Prisons, Salary Increases for Length of Service, the line 'Keeper, \$1,050 to \$1,200 per annum, due June 9, 1914, \$84.17,' is stricken out, and the lines 'Keeper, \$900 to \$1,050 per annum, due October 1, 1914, \$37.50,' and 'Keeper, \$1,050 to \$1,200 per annum, due October 1, 1914, \$37.50,' are inserted, \$9.17 being placed as unassigned balance.

"It is proposed to provide for increases in salary for Malcolm F. Lagville, a Keeper, from \$900 to \$1,050 per annum, and for Lazarus Levy, a Keeper, from \$1,050 to \$1,200 per annum, in accordance with the provisions of a resolution adopted by the Board of Estimate and Apportionment on February 16, 1906, fixing automatic increases in rates for Keepers to \$900, \$1,050 and \$1,200 for two, four and six years of service.

"Mr. Lagville was appointed on June 23, 1909, at \$800 per annum. His rate was increased on October 1, 1911, to \$900. He resigned on May 31, 1913, and was reinstated on November 24, 1913, at the \$900 rate.

"Mr. Levy was appointed on March 4, 1908, at \$800 per annum. His rate was increased on March 4, 1910, to \$900, and on March 4, 1912, to \$1,050. He was dismissed on June 25, 1913, for permitting a female prisoner to escape, and was reinstated on December 31, 1913, at \$1,050 per annum. He rearrested the prisoner at Albany, at his own expense.

"The increase in rate for the two Keepers was not provided for in the Budget for 1914, for the reason that they were not on the payroll on June 30, 1914, when the departmental estimates were set up. The request for an increase by Lagville and Lazarus has been recommended by the Warden of the prison

and approved by the Commissioner. The necessary funds are provided from the allowance for B. H. Clarke, a Keeper, who was dismissed on June 13, 1914." In view of the above facts, we recommend that the request be granted by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; GEORGE McANENY, President, Board of Aldermen, Committee on Salaries and Grades.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Correction for the year 1914, to be effective as of October 1, 1914, as follows:

Salaries Temporary Employees, Prison Service, Care of Plant and Inmates.

2639 City Prisons—

Salary Increases for Length of Service:

Keeper, \$1,050 to \$1,200 per annum, due January 7, 1914.....	\$147 58
Keeper, \$1,050 to \$1,200 per annum, due February 1, 1914.....	137 50
Keeper, \$1,050 to \$1,200 per annum, due February 1, 1914.....	137 50
Keeper, \$1,050 to \$1,200 per annum, due February 5, 1914.....	135 71
Keeper, \$1,050 to \$1,200 per annum, due February 11, 1914.....	133 04
Keeper, \$1,050 to \$1,200 per annum, due March 10, 1914.....	121 37
Keeper, \$1,050 to \$1,200 per annum, due March 10, 1914.....	121 37
Keeper, \$1,050 to \$1,200 per annum, due April 1, 1914.....	112 50
Keeper, \$900 to \$1,050 per annum, due April 14, 1914.....	107 08
Keeper, \$900 to \$1,050 per annum, due April 14, 1914.....	107 08
Keeper, \$800 to \$900 per annum, due August 20, 1914.....	36 56
Keeper, \$1,050 to \$1,200 per annum, due April 20, 1914.....	104 58
Keeper, \$1,050 to \$1,200 per annum, due May 1, 1914.....	100 00
Keeper, \$1,050 to \$1,200 per annum, due June 9, 1914.....	84 17
Keeper, \$1,050 to \$1,200 per annum, due October 1, 1914.....	37 50
Keeper, \$800 to \$900 per annum, due August 24, 1914.....	35 48
Keeper, \$900 to \$1,050 per annum, due September 7, 1914.....	47 50
Keeper, \$800 to \$900 per annum, due September 19, 1914.....	28 33
Keeper, \$900 to \$1,050 per annum, due September 21, 1914.....	41 67
Keeper, \$900 to \$1,050 per annum, due October 1, 1914.....	37 50
Keeper, \$800 to \$900 per annum, due October 1, 1914.....	25 00
Keeper, \$800 to \$900 per annum, due October 1, 1914.....	25 00
Keeper, \$800 to \$900 per annum, due October 1, 1914.....	25 00
Keeper, \$800 to \$900 per annum, due October 1, 1914.....	25 00
Keeper, \$800 to \$900 per annum, due December 1, 1914.....	8 33
Keeper, \$800 to \$900 per annum, due December 10, 1914.....	5 91
Keeper, \$800 to \$900 per annum, due December 10, 1914.....	5 91
Unassigned balance	9 17

Schedule Total \$1,968 34

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Bridges—Modification of Schedules (Cal. No. 24).

The Secretary presented a communication, dated October 23, 1914, from the Commissioner of Bridges, requesting the modification of a schedule for 1914; and the following report of the Committee on Salaries and Grades, recommending approval thereof:

City of New York, Board of Estimate and Apportionment, Municipal Building, Bureau of Standards, November 5, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On October 23, 1914, the Commissioner of Bridges requested modification of a wage schedule in his department for the year 1914. The request was referred to the Committee on Salaries and Grades on October 26, 1914. The Bureau of Standards reports thereon as follows:

"In Personal Service, Wages, Regular Employees, Municipal Garage, 2761S, Special Fund Force, it was proposed to change the line Machinist, 1 at \$4.50 per day (365 days), to Automobile Machinist, 1 at \$4.50 per day (365 days).

"The request is made for the purpose of assigning to the Municipal Garage, under the jurisdiction of the Department of Bridges, a competent man to take charge of the repairs to about thirty cars owned by the City. The work to be performed will require the incumbent to have a thorough knowledge of the construction of automobiles, be able to ascertain motor troubles and take charge of all repairs, etc.

"It is the intention to fill this position by transferring, with the consent of the Municipal Civil Service Commission, an Automobile Engineman now employed in the Department at \$1,200 per annum. The position of Automobile Engineman now held by the employee whom it is proposed to appoint to the position of Automobile Machinist will not be filled after such transfer becomes effective. The employee is now provided for in Salaries, Regular Employees, Construction, No. 2750C, Corporate Stock Force. No request for the modification of this schedule has been made.

"On August 27, 1914, the Board of Estimate and Apportionment adopted a resolution recommending the establishment of the position of Automobile Machinist, at \$4.50 per day, for one incumbent. On October 6, 1914, the Board of Aldermen concurred in the resolution and established the position.

"One increase in salary is involved, as follows: Morris Klein, from Automobile Engineman, at \$1,200 per annum, to Automobile Machinist, at \$4.50 per day (365 days), \$1,642.50."

In view of the foregoing facts, we recommend the adoption of the attached resolution modifying schedule No. 2761S, by changing the line Machinist, 1 at \$4.50 per day (365 days), to Automobile Machinist, 1 at \$4.50 per day (365 days), and schedule No. 2750C by dropping an Automobile Engineman at \$1,200 per annum and placing the amount in Balance Unassigned. Respectfully,

WM. A. PRENDERGAST, Comptroller; GEORGE McANENY, President, Board of Aldermen, Committee on Salaries and Grades.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Bridges for the year 1914, to be effective November 20, 1914, as follows:

Personal Service.

Salaries, Regular Employees, Construction—

2750C Corporate Stock Force—	
Consulting Engineer	\$7,500 00
Assistant Engineer	6,000 00
Assistant Engineer	5,000 00
Assistant Engineer, 3 at \$4,000.....	12,000 00
Assistant Engineer, 2 at \$3,500.....	7,000 00
Assistant Engineer	3,000 00
Assistant Engineer, 2 at \$2,400.....	4,800 00
Assistant Engineer, 3 at \$2,250.....	6,750 00
Assistant Engineer, 4 at \$2,100.....	8,400 00
Assistant Engineer	1,800 00
Transitman, 5 at \$1,800.....	9,000 00
Draftsman, 8 at \$1,800.....	14,400 00
Leveler	1,350 00
Rodman, 3 at \$1,200.....	3,600 00
Toolman, 2 at \$1,200.....	2,400 00
Rodman	1,050 00
Steel Inspector	1,650 00
Axeman, 3 at \$900.....	2,700 00
Balance Unassigned	4,200 00

Schedule Total \$102,600 00

Wages, Regular Employees, Municipal Garage—

2761S Special Fund Force—	
Automobile Machinist, 1 at \$4.50 per day (365 days).....	\$1,642 50
Machinist, 2 at \$4.50 per day (278 days).....	2,502 00
Oiler, 1 at \$3 per day (365 days).....	1,095 00

Laborer, 2 at \$3 per day (365 days).....	2,190 00
Laborer, 4 at \$2.50 per day (365 days).....	3,650 00
Schedule Total	\$11,079 50

Special Fund Allowance..... \$11,079 50

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Education—Transfer of Appropriation and Modification of Schedule (Cal. No. 25).

The Secretary presented two communications, dated October 22 and 29, 1914, respectively, from the Board of Education, requesting the modification of schedules involving transfer within appropriation for said department for 1914; and the following report of the Committee on Salaries and Grades recommending denial thereof:

City of New York, Department of Finance, Comptroller's Office, November 9, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On October 22d and 29th, 1914, the Board of Education requested modification of salary schedules Nos. 857 and 851 respectively, for the year 1914. Under date of October 29, 1914, a request was made to transfer \$30 from salary schedule No. 856 to salary schedule No. 851 within appropriations for 1914, to provide for the modification of salary schedule No. 851 above mentioned. In connection therewith we report as follows:

In No. 857, Supervision of Building Construction and Alteration, it is proposed to change the lines—

"Stenographer and Typewriter, 3 at \$900	\$2,700 00
Typewriting Copyist.....	900 00
	\$3,600 00"

—to read:

Stenographer and Typewriter, 2 at \$900.....	\$1,800 00
Typewriting Copyist, 2 at \$900.....	1,800 00
	\$3,600 00

A vacant position of Stenographer and Typewriter is thereby eliminated and a new position of Typewriting Copyist at \$900 per annum created, which it is proposed to fill by promoting Mary E. Bowdin, now receiving \$750 per annum. Miss Bowdin was originally appointed in 1911 and received her last increase May 1, 1913.

In No. 851, Executive, the lines—

"Switchboard Operator	\$750 00
Switchboard Operator, 2 at \$600.....	1,200 00
Balance unassigned.....	820 00
	\$2,770 00"

—are changed to read:

Switchboard Operator, 3 at \$750.....	\$2,250 00
Balance unassigned.....	550 00
	\$2,800 00

This provides for increasing the salaries of two switchboard operators from \$600 to \$750 per annum each. The \$300 representing the annual rate of the aggregate salary increases is to be obtained by drawing \$270 from the line balance unassigned in this schedule, and \$30 by reducing the line balance unassigned in schedule No. 856, Purchase and Storage of Supplies. As the proposed increases are requested to begin from October 28, 1914, the actual cash necessary to be transferred from schedule No. 856 will be only \$524 instead of \$30 as requested by the Board of Education.

Concurrently with the request for the modification of schedule No. 851 herein above referred to, the Board of Education requested that provision be made in the budget for 1915 for the increased salaries of these switchboard operators, which request was denied.

We recommend that the requests of the Board of Education for the modification of salary schedules and transfer of \$30 as hereinabove mentioned be denied.

Respectfully, WM. A. PRENDERGAST, Comptroller; GEORGE McANENY, President, Board of Aldermen; Committee on Salaries and Grades.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby denies the requests of the Board of Education, as set forth in two communications dated October 22 and 29, 1914, for the modification of salary schedules 857 and 851, and the transfer of thirty dollars (\$30) from schedule 856 to schedule 851 for the year 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary was then directed to send copy of the report of the Committee on Salaries and Grades to the Board of Education.

Department of Education—Compensation of Janitors in Public Schools (Cal. No. 26).

(On November 6, 1914 (Cal. No. 75), the resolutions of the Board of Education in this matter were referred to the Committee on Salaries and Grades.)

The Secretary presented six resolutions adopted by the Board of Education on October 28, 1914, requesting the establishment of rates of compensation for Janitors in various public schools; and the following report of the Committee on Salaries and Grades:

The City of New York, Department of Finance, Comptroller's Office, November 4, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On October 28, 1914, the Board of Education requested the establishment of rates of compensation for janitors of sundry public schools. In connection therewith we report as follows:

For the janitor of new Public School No. 115, 176th and 177th Streets, between St. Nicholas and Audubon Avenues, Manhattan, a rate of \$4,236, based on measurement of the building is requested. A temporary rate of \$150 per month is paid the janitor at the present time. The new addition to Public School No. 169, Audubon Avenue, 168th and 169th Streets, Manhattan, is now occupied for school purposes, and it is proposed to increase the compensation of the janitor thereof from \$3,456 per annum to \$4,116, based on the increased measurements. It is requested that the temporary rate of \$150 per month now paid the janitor of Public School No. 53, 168th Street, Findlay and Teller Avenues, The Bronx, be increased to \$4,164, the entire building being occupied for school purposes.

In the Borough of Brooklyn, temporary rates, that is, regular rates, less rent allowance, are requested for the following buildings:

Annex to Public School No. 17, North 1st Street, near Bedford Avenue, \$720 per annum, less \$221 rent allowance.

Public School No. 84, Glenmore and Stone Avenues and Watkins Street, \$7,068 per annum, less \$221 rent allowance.

Public School No. 154, 11th Avenue, Windsor Road and Sherman Street, \$3,036 per annum, less \$221 rent allowance.

For the new Bay Ridge High School, still incomplete, at 4th Avenue, 60th and Senator Streets, the Board of Education requests a temporary rate of \$150 per month in order to provide the building with a caretaker. A temporary rate of \$180 per month is proposed for the temporary janitor of Public School No. 139, Avenue C, East 13th and 14th Streets, the regular janitor being absent on sick leave. This is less than the regular annual rate, \$2,772. The janitor of Public School No. 97, Benson and 25th Avenues, has the care of a two-room portable building at Stillwell Avenue and Avenue S. It is stated that since the portable building is so long a distance from the main building an additional cleaner will be required to care for it, necessitating an increase of rate from \$240 to \$480 per annum. Since no request was made or allowed for this increased rate in the 1915 budget, we recommend that it be denied.

New Public School No. 94, Old House Landing Road, Little Neck, Queens, is completely occupied for school purposes. The Board of Education, therefore, requests that the temporary rate of compensation of \$75 per month be changed to the regular rate, based on measurement, \$2,064 per annum. An increase in the rent allowance for the janitor of Public School No. 37, Higbie Avenue and Springfield Road, Springfield, Queens, is requested. The rent allowance is now \$221, but since Springfield contains only private homes, it is stated that it is impracticable for the janitor to procure

living accommodations at the present rate. No request was made in the Departmental Estimate of the Department of Education for 1915 for the increased rent allowance. Therefore, we recommend that it be denied. The janitor of Public School No. 12, Steuben Street, Stapleton, Richmond, has the care of a new two-room portable building for which the Board of Education requests a compensation of \$144 per annum.

We recommend the adoption of the attached resolution granting the requests, with the exception of the increased rate for the care of the portable buildings used as an annex to Public School No. 97, Brooklyn, and the increased rent allowance for Public School No. 37, Queens.

Respectfully, WM. A. PRENDERGAST, Comptroller; GEORGE McANENY, President, Board of Aldermen, Committee on Salaries and Grades.

The following was offered:

Whereas, By opinions of the Corporation Counsel as of June 28 and July 30, 1910, the Comptroller was advised that the payment of salaries of janitors in the Department of Education was illegal unless such salary shall have been established under the provisions of section 56 of the Greater New York Charter; and

Whereas, The Special Committee on Janitorial Compensation and the Committee on School Inquiry, Board of Estimate and Apportionment, submitted a Joint Report on March 27, 1913, which contained detailed suggestions and recommendations for the reorganization of the janitorial force of the Board of Education; therefore, be it

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen, pending action by the Board of Education on the aforesaid report, the compensation of janitors in the Department of Education be fixed temporarily, and until further modified, in accordance with the following list:

Janitor, Public School No. 115, Manhattan, per annum.....	\$4,236 00
Janitor, Public School No. 169, Manhattan, per annum.....	4,116 00
Janitor, Public School No. 53, The Bronx, per annum.....	4,164 00
Janitor, annex to Public School No. 17, Brooklyn, per annum, less \$221.....	720 00
Janitor, Public School No. 84, Brooklyn, per annum, less \$221.....	7,068 00
Janitor, Public School No. 154, Brooklyn, per annum, less \$221.....	3,036 00
Janitor, Bay Ridge High School, Brooklyn, per month.....	150 00
Janitor, Public School No. 139, Brooklyn, per month.....	180 00
Janitor, Public School No. 12, Richmond, for care of portable building, per annum.....	144 00
Janitor, Public School No. 94, Queens, per annum.....	2,064 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary was then directed to send a copy of the report of the Committee on Salaries and Grades to the Board of Education.

Department of Parks, Borough of Brooklyn—Retirement of Samuel Rogers, Laborer (Cal. No. 27).

(On March 20, 1914 (Cal. No. 5), the request of the Commissioner of Parks, Borough of Brooklyn, in this matter was referred to the Committee on Salaries and Grades.)

The Secretary presented a communication dated March 13, 1914, from the Commissioner of Parks, Borough of Brooklyn, recommending the retirement of Samuel Rogers, Laborer, employed in said Department; and the following report of the Committee on Salaries and Grades, recommending approval thereof:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 7, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—At a meeting of your Board, held March 20, 1914, there was submitted a communication from the Commissioner of the Department of Parks, Borough of Brooklyn, dated March 13, 1914, recommending the retirement, pursuant to the provisions of sections 165, 166 and 167 of the Greater New York Charter, as amended by Chapter 669 of the Laws of 1911, and Chapter 479 of the Laws of 1912, of Samuel Rogers, a Laborer in the Department of Parks, Borough of Brooklyn.

The Commissioner's communication stated in part as follows:

"Samuel Rogers, 407 Rogers Avenue, Brooklyn, Civil War Veteran. A laborer since 1869; aged 77 years and incapacitated to perform his duties."

On March 31, 1914, Dr. J. H. Byrne, Medical Examiner of the Department of Finance, examined Mr. Rogers, and states that he is unable for any laborious work.

The Medical Examiner's detailed report is attached hereto.

Mr. Rogers is a veteran of the Civil War. His certificate of discharge states that on April 12, 1864, he enrolled as a private in the 238th Company, First Battalion, Vet. Reserve Corps, and was discharged on July 18, 1865.

Mr. Rogers' original appointment and subsequent changes in rates of compensation during the period covered by the service schedule hereinafter contained, were as follows:

April, 1869, appointed as a Laborer in the Department of Parks, Brooklyn.	
July, 1890, compensation fixed at \$2.50 per day.	
September, 1894, compensation changed to \$2 per day.	
January, 1911, compensation increased to \$2.50 per day.	
An examination of the payrolls and time sheets has been made sufficient to establish over 20 years' service as follows:	
1890—July 1 to December 31.....	146 days
1891—January 1 to December 31.....	291½ days
1892—January 1 to December 31.....	302¼ days
1893—January 1 to December 31.....	298 days
1894—January 1 to December 31.....	291¾ days
1895—January 1 to December 31.....	285½ days
1896—January 1 to December 31.....	268½ days
1897—January 1 to December 31.....	285 days
1898—January 1 to December 31.....	292½ days
1899—January 1 to December 31.....	301¼ days
1900—January 1 to December 31.....	269½ days
1901—January 1 to December 31.....	309½ days
1902—January 1 to December 31.....	314½ days
1903—January 1 to December 31.....	370 days
1904—January 1 to December 31.....	332¼ days
1905—January 1 to December 31.....	356¼ days
1906—January 1 to December 31.....	311¼ days
1907—January 1 to December 31.....	292 days
1908—January 1 to December 31.....	297¾ days
1909—January 1 to December 31.....	314½ days
1910—January 1 to December 31.....	327¼ days
1911—January 1 to December 31.....	325¼ days
1912—January 1 to December 31.....	340½ days
1913—January 1 to December 31.....	327 days
1914—January 1 to October 31.....	250 days
	7,499½ days

—equivalent to a service of 23 years and 9½ months.

In an affidavit dated July 10, 1914, Mr. Rogers stated that he had never filed a claim nor brought suit against The City of New York for the payment of salary or wages or for any other claim.

A search of the records in the Law Department discloses no evidence of any action brought by deponent.

An examination of the Register of Claims in the Division of Law and Adjustment of the Department of Finance for the past six years shows that he has filed no claim during that period.

For the period from November 1, 1911, to October 31, 1914, Mr. Rogers' name appears upon the temporary payroll at \$2.50 per day. He is provided for in the budget as a per diem employee with no specified number of days to the year.

His actual compensation during the same period was:

November 1 to December 31, 1911, 48½ days at \$2.50 per day.....	\$120 62
January 1 to December 31, 1912, 340½ days at \$2.50 per day.....	851 25
January 1 to December 31, 1913, 327 days at \$2.50 per day.....	817 50
January 1 to October 31, 1914, 250 days, at \$2.50 per day.....	625 00
	\$2,414 37

—or an average annual sum of \$804.79.

We recommend the adoption of the accompanying resolution retiring Samuel Rogers from active service and awarding him an annuity of \$402.39, being a sum equal to 50 per centum of his average rate of annual compensation for the last three years. Respectfully,

WM. A. PRENDERGAST, Comptroller; GEORGE McANENY, President, Board of Aldermen, Committee on Salaries and Grades.

The following was offered:

Whereas, Samuel Rogers, employed as a Laborer in the Department of Parks, Borough of Brooklyn, is an honorably discharged soldier, who served as such in the Union Army during the War of the Rebellion, who has been in the employ of The City of New York or of one of the municipalities, counties or parts thereof which have been incorporated into The City of New York, for a period of twenty years and upward, and is physically incapacitated for the further performance of the duties of his position, therefore be it

Resolved, That the interest of the public service requires his retirement, and that the Board of Estimate and Apportionment, pursuant to the provisions of sections 165, 166 and 167 of the Greater New York Charter, as amended by Chapter 669 of the Laws of 1911 and Chapter 479 of the Laws of 1912, hereby does retire from active service Samuel Rogers, employed as a Laborer in the Department of Parks, Borough of Brooklyn, and hereby awards and grants to said Samuel Rogers an annual sum or annuity of Four Hundred Two and 39-100 Dollars (\$402.39), being fifty per centum of his average annual rate of compensation for the three years immediately preceding the taking effect of this resolution; this resolution to take effect upon the first day of the month following its adoption, subject to the execution by the annuitant of a general release; and be it further

Resolved, That the Comptroller of The City of New York be and he is hereby directed to pay said annuity to said Samuel Rogers during his lifetime in equal monthly installments out of the receipts of excise moneys or liquor taxes belonging to The City of New York.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Parks, Borough of Brooklyn—Retirement of Edward Riker, Laborer (Cal. No. 28).

(On March 20, 1914 (Cal. No. 5), the request of the Commissioner of Parks, Borough of Brooklyn, in this matter, was referred to the Committee on Salaries and Grades.)

The Secretary presented a communication, dated March 13, 1914, from the Commissioner of Parks, Borough of Brooklyn, recommending the retirement of Edward Riker, Laborer, employed in said department; and the following report of the Committee on Salaries and Grades, recommending approval thereof:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 14, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—At a meeting of your Board, held March 20, 1914, there was submitted a communication from the Commissioner of the Department of Parks, Borough of Brooklyn, dated March 13, 1914, recommending the retirement pursuant to sections 165, 166 and 167 of the Greater New York Charter, as amended by Chapter 669 of the Laws of 1911 and Chapter 479 of the Laws of 1912, of Edward Riker, a laborer in the Department of Parks, Borough of Brooklyn.

The Commissioner's communication stated in part as follows:

"Edward Riker, 115 Woodruff Avenue, Brooklyn, a laborer since 1889. Mr. Riker is a Civil War veteran, is 71 years of age and physically incapacitated to perform his duties."

On March 31, 1914, Dr. J. H. Byrne, Medical Examiner of the Department of Finance, examined Mr. Riker, and states that he is unfit for laborious work.

The Medical Examiner's detailed report is attached hereto.

Mr. Riker is a veteran of the Civil War. His certificate of discharge states that he served in Company C, 5th Regiment, N. Y. Vols. from September 3, 1862, to May 31, 1865, when he was discharged.

Mr. Riker's original appointment and subsequent changes in rate of compensation were as follows:

November, 1888, appointed as Laborer, Department of Parks, Brooklyn.

July, 1890, compensation at \$1.50 per day.

January, 1900, compensation increased to \$2 per day.

January, 1911, compensation increased to \$2.50 per day.

An examination of the payrolls and time sheets has been made sufficient to establish over twenty years' service, as follows:

	Days.
1890, July 1 to December 31.....	179
1891, January 1 to December 31.....	248
1892, January 1 to December 31.....	271
1893, January 1 to December 31.....	307½
1894, January 1 to December 31.....	182
1895, January 1 to December 31.....	182
1896, January 1 to December 31.....	180½
1897, January 1 to December 31.....	223¾
1898, January 1 to December 31.....	364
1899, January 1 to December 31.....	353
1900, January 1 to December 31.....	288½
1901, January 1 to December 31.....	315
1902, January 1 to December 31.....	337½
1903, January 1 to December 31.....	365
1904, January 1 to December 31.....	365½
1905, January 1 to December 31.....	365
1906, January 1 to December 31.....	355
1907, January 1 to December 31.....	363
1908, January 1 to December 31.....	364
1909, January 1 to December 31.....	359
1910, January 1 to December 31.....	354
1911, January 1 to December 31.....	336
1912, January 1 to December 31.....	350
1913, January 1 to December 31.....	350¾
1914, January 1 to October 31.....	278½
	7,637

—equivalent to a service of 22 years and 8½ months.

In an affidavit dated July 10, 1914, Mr. Riker stated that he had never filed a claim nor brought suit against The City of New York for the payment of salary or wages or for any other claim.

A search of the records in the Law Department discloses no evidence of any action brought by deponent.

An examination of the Register of Claims in the Division of Law and Adjustment of the Department of Finance for the past six years shows that he has filed no claim during that period.

For the period from November 1, 1911, to October 31, 1914, Mr. Riker's name appears upon the temporary payroll at \$2.50 per day. He is provided for in the budget as a per diem employee with no specified number of days to the year.

His actual compensation during the same period was:

November 1 to December 31, 1911, 49 days at \$2.50 per day.....	\$122 50
January 1 to December 31, 1912, 350 days at \$2.50 per day.....	875 00
January 1 to December 31, 1913, 350¾ days at \$2.50 per day.....	876 88
January 1 to October 31, 1914, 278½ days at \$2.50 per day.....	696 25
	\$2,570 63

—or an average annual sum of \$856.88.

We recommend the adoption of the accompanying resolution retiring Edward Riker from active service and awarding him an annuity of \$428.44, being a sum equal to 50 per centum of his average rate of annual compensation for the last three years.

WM. A. PRENDERGAST, Comptroller; GEORGE McANENY, President, Board of Aldermen, Committee on Salaries and Grades.

The following was offered:

Whereas, Edward Riker, employed as a Laborer in the Department of Parks, Borough of Brooklyn, is an honorably discharged soldier who served as such in

the Union Army during the War of the Rebellion, who has been in the employ of the City of New York or of one of the municipalities, counties or parts thereof which have been incorporated into the City of New York, for a period of twenty years and upward, and is physically incapacitated for the further performance of the duties of his position; therefore be it

Resolved, That the interest of the public service requires his retirement, and that the Board of Estimate and Apportionment, pursuant to the provisions of sections 165, 166 and 167 of the Greater New York Charter, as amended by Chapter 669 of the Laws of 1911 and Chapter 479 of the Laws of 1912, hereby does retire from active service Edward Riker, employed as a Laborer in the Department of Parks, Borough of Brooklyn, and hereby awards and grants to said Edward Riker an annual sum or annuity of four hundred twenty-eight and 44/100 dollars (\$428.44), being fifty per centum of his average annual rate of compensation for the three years immediately preceding the taking effect of this resolution; this resolution to take effect upon the first day of the month following its adoption, subject to the execution by the annuitant of a general release; and be it further

Resolved, That the Comptroller of The City of New York be and he is hereby directed to pay said annuity to said Edward Riker during his lifetime in equal monthly installments out of the receipts of excise moneys or liquor taxes belonging to The City of New York.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Fire Department—Retirement of George A. Teller, Clerk (Cal. No. 29).

(On August 27, 1914 (Cal. No. 131), the request of the Fire Commissioner in this matter was referred to the Committee on Salaries and Grades.)

The Secretary presented a communication, dated August 7, 1914, from the Fire Commissioner, recommending the retirement of George A. Teller, Clerk, employed in said Department; and the following report of the Committee on Salaries and Grades, recommending approval thereof:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 7, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—At a meeting of your Board held August 27, 1914, there was submitted a communication from the Fire Commissioner, dated August 7, 1914, recommending the retirement of George A. Teller, a Clerk in the Fire Department.

The Commissioner's communication was as follows:

"I have the honor to request that, pursuant to the provisions of chapter 669 of the Laws of 1911, as amended, you recommend to the Board of Estimate and Apportionment the retirement from the service, for physical incapacity, of Clerk George A. Teller, of this Department, on an annual pension not to exceed one-half the amount his salary has averaged for the past three years.

"Mr. Teller was born September 16, 1843, and has been in the employ of this Department continuously since February 3, 1891, a period of more than 23 years. He is a Veteran of the Civil War. His salary for 1911, 1912 and 1913 was at the rate of \$1,350 per annum. Since January 1, 1914, and up to the present time his compensation has been at the rate of \$1,500 per annum."

On October 10, 1914, Dr. J. H. Byrne, Medical Examiner of the Department of Finance, examined Mr. Teller, and states that he is permanently unfit for duty.

The Medical Examiner's detailed report is attached hereto.

Mr. Teller is a veteran of the Civil War. His certificate of discharge states that he enlisted on August 10, 1862, as a private in Co. A, 3d N. Y. Vols., and was discharged August 10, 1863.

Mr. Teller's original appointment and subsequent changes in rate of compensation were as follows:

February 3, 1891, appointed as a Storekeeper in the Telegraph Bureau of the Fire Department, at \$2.50 per day.

November 1, 1894, title changed to Clerk, at \$1,000 per annum.

May 1, 1902, compensation increased to \$1,200 per annum.

March 1, 1905, compensation changed to \$1,350 per annum.

January 1, 1914, compensation fixed at \$1,500 per annum.

An examination of the payrolls and time sheets has been made sufficient to establish over 20 years' service, as follows:

	Months.	Days.
1894—January 1 to December 31.....	2	297
1895—January 1 to December 31.....	12	.....
1896—January 1 to December 31.....	12	.....
1897—January 1 to December 31.....	12	.....
1898—January 1 to December 31.....	12	.....
1899—January 1 to December 31.....	12	.....
1900—January 1 to December 31.....	12	.....
1901—January 1 to December 31.....	12	.....
1902—January 1 to December 31.....	11	28
1903—January 1 to December 31.....	12	.....
1904—January 1 to December 31.....	12	.....
1905—January 1 to December 31.....	12	.....
1906—January 1 to December 31.....	12	.....
1907—January 1 to December 31.....	12	.....
1908—January 1 to December 31.....	12	.....
1909—January 1 to December 31.....	12	.....
1910—January 1 to December 31.....	12	.....
1911—January 1 to December 31.....	12	.....
1912—January 1 to December 31.....	12	.....
1913—January 1 to December 31.....	12	.....
1914—January 1 to November 30.....	11	.....
	240	325

—equivalent to 20 years 10 months and 28 days' service.

In an affidavit dated October 10, 1914, Mr. Teller stated that he had never filed a claim nor brought suit against The City of New York for the payment of salary or wages or for any other claim.

A search of the records in the Law Department discloses no evidence of any action brought by deponent.

An examination of the Register of Claims in the Division of Law and Adjustment of the Department of Finance, for the past six years shows that he has filed no claim during that period.

For the period from December 1, 1911, to November 30, 1914, Mr. Teller's compensation as provided for in the budget and the amount he actually received (except as to November, 1914, not yet completed) was as follows:

December 1 to December 31, 1911, 1 month at \$112.50 per month.....	\$112 50
January 1 to December 31, 1912, 12 months at \$112.50 per month.....	1,350 00
January 1 to December 31, 1913, 12 months at \$112.50 per month.....	1,350 00
January 1 to November 30, 1914, 11 months at \$125 per month.....	1,375 00

\$4,187 50

—an average annual sum of \$1,395.83.

We recommend the adoption of the accompanying resolution retiring George A. Teller from active service and awarding him an annuity of \$697.91, being a sum equal to 50 per centum of his average rate of annual compensation for the last three years.

WM. A. PRENDERGAST, Comptroller; GEORGE McANENY, President, Board of Aldermen, Committee on Salaries and Grades.

The following was offered:

Whereas, George A. Teller, employed as a Clerk in the Fire Department, is an honorably discharged soldier who served as such in the Union Army during the War of the Rebellion, who has been in the employ of The City of New York or of one of the municipalities, counties or parts thereof which have been incorporated into the City of New York for a period of twenty years and upward, and is physically incapacitated for the further performance of the duties of his position, therefore be it

Resolved, That the interest of the public service requires his retirement, and that the Board of Estimate and Apportionment, pursuant to the provisions of sections

165, 166 and 167 of the Greater New York Charter, as amended by Chapter 669 of the Laws of 1911 and Chapter 479 of the Laws of 1912, hereby does retire from active service George A. Teller, employed as a Clerk in the Fire Department, and hereby awards and grants to said George A. Teller an annual sum or annuity of six hundred ninety-seven and 91/100 dollars (\$697.91), being fifty per centum of his average annual rate of compensation for the three years immediately preceding the taking effect of this resolution; this resolution to take effect upon the first day of the month following its adoption, subject to the execution by the annuitant of a general release; and be it further

Resolved, That the Comptroller of The City of New York be and he is hereby directed to pay said annuity to said George A. Teller during his lifetime in equal monthly installments out of the receipts of excise moneys or liquor taxes belonging to The City of New York:

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Committee on Street Cleaning.

Department of Street Cleaning—Removal of Snow, Winter 1914-1915 (Cal. No. 30).

(On November 13, 1914 (No. 122), the plans submitted by the Commissioner of Street Cleaning in this matter were referred to the Committee on Street Cleaning.) The Secretary presented the following plans submitted by the Commissioner of Street Cleaning for the removal of snow for winter of 1914-1915; and report of the Committee on Street Cleaning, recommending the adoption of said plans:

Department of Street Cleaning, City of New York, November 10, 1914.
Final Plans for Snow Work, Winter of 1914-1915.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman, Board of Estimate and Apportionment, City of New York:

Sir—On June 22, 1914, I presented a preliminary memorandum covering proposed plans for snow work next winter, and now beg to submit for approval final complete plans in relation thereto.

Previous Methods.

In past years the City depended upon trucks alone to haul snow from streets to waterfront dumps, the work starting as a rule after the storm was over and traffic retarded or completely blocked. No other method was considered available, and the speed of clearing snow from streets thus depended upon the supply of trucks for snow work. The maximum number of vehicles which could be procured last winter was 3,000, and each truck averaged 50 cubic yards per day. Under these conditions 150,000 cubic yards of snow was the maximum amount per day that could be removed from roadways. With the 38-inch snowfall in February and March of this year it required over forty days to clear snow from the 1914 scheduled area of 20,000,000 square yards.

The only additional method of accelerating the removal of snow, up to last winter, was by decreasing the length of haul for trucks through the use of main trunk sewers for snow disposal, and only a limited number of such sewers was allowed in the Borough of Manhattan.

As a result of last winter's experience and tests it appears that the city has had available for years past a possible solution of the problem of rapid snow removal through the extensive use of sewers, not alone after a snowfall, but during the progress of the storm. A further principle has likewise resulted from the experience of this administration, i.e., snow work should be started with the storm, clean snow dumped into sewers as it falls, and the attempt made to keep pace with the storm, instead of trying to dig the City out after the block has occurred.

It should be recognized that these discoveries regarding snow work must be tested by a winter's experience, but whatever is done next winter in the disposal of snow through sewers must be considered as a decided addition to past methods, which likewise will be continued in operation.

Thus, next winter's plans contemplate snow work under three divisions, known respectively as the (I.) "Snow Fighting Force," the (II.) "Snow Removal Force," and the (III.) "Street Railway Force."

The Snow Problem.

The physical elements of the snow fighting problem, in so far as the area of streets scheduled for snow removal is concerned, are as follows:

Total Areas and Mileage of Streets Scheduled for Snow Work.

Borough.	Street Area Sq. Yds.	Length Miles.
Manhattan	13,120,225	373
The Bronx	3,028,421	85
Brooklyn	9,682,097	275
Totals	25,830,743	734

Borough.	Street Area Sq. Yds.	Length Miles.
Manhattan	10,045,252	285
The Bronx	2,021,185	57
Brooklyn	7,040,000	200
Totals	19,106,437	542

Contract Schedule, Mandatory Streets:		
Manhattan	1,839,382	52
The Bronx	250,227	7
Brooklyn	1,214,400	35
Totals	3,304,009	94

Street Railway Schedule:		
Manhattan	1,235,591	35
The Bronx	757,009	21
Brooklyn	1,427,697	41
Totals	3,420,297	97

An analysis of the monthly occurrence of maximum snow storms provides the following data:

Maximum Snowfall per 24 Hours in the Past 25 Years.

Month.	Year.	Snowfall in Inches.
November	1898	8.8
December	1890	14
January	1910	13.1
February	1893	17.8
March	1888	16.5
April	1907	5.5

An analysis of snowstorms having a fall of 3 inches or over from 1905 to 1914, inclusive, provides the following data:

	Maximum.	Average.
Number of storms per winter	7	4
Duration of single storm in hours	33	13.5
Rate of fall per hour per storm in inches	9/10	1/2
Depth of snow per winter in inches	42	21.3

I. Snow Fighting Force.

Based upon the data concerning snowfalls it is planned to utilize all sewers having a sufficient flow of water to transport snow and by means of regular sweepers acting

as squad foremen, to assign emergency laborers in sufficient number to place in manholes snow falling at the rate of one-half inch per hour. The number of emergency men required for this purpose will approximate 15,000 per shift of eight hours.

In addition to pushing the snow into sewer manholes on scheduled streets where sewers are available for snow disposal, the snow fighting force will remove snow from intersections of paved non-scheduled streets, placing it in sewers where such can be used, or otherwise piling it. It is also part of the plan to assign the snow fighting force to clear the roadway at nearside street car stops.

Last year's experience in disposing of 800,000 cubic yards of snow in large sewers demonstrated the economy of this method, the cost being approximately 15 cents per cubic yard. Special tests in the various Boroughs, together with scientific observations conducted by the Sewer Bureau of the Borough of Manhattan, verified the general conclusion that all sewers having a sufficient flow of water can be utilized for the disposal of clean snow without injury to the sewers. On streets where sewers are unable to carry off the snow, the roadway will be cleared and the snow piled for removal by carts or trucks.

For the purpose of showing the advantage of snow fighting work over contract removal a tentative estimate of the time required to clear the scheduled area in the three Boroughs and the cost thereof is presented herewith.

Assume snow falling at the rate of one-half inch per hour; storm continuing for 14 hours:

Item.	Snow Fighting Force.	Contract Work.
Estimated time required to complete work after storm ceases	4 hours	168 hours
Estimated cost per million square yards cleared	\$5,460 00	\$22,438 00
Estimated total cost of clearing scheduled area	\$109,200 00	\$448,760 00

This estimate, as well as all plans for snow fighting, is based on the following assumptions:

(1) That a sufficient force of emergency labor can be started at work, day or night, within four hours after a continuing snowfall begins.

(2) That a rate of pay sufficient to attract labor and make the men anxious to work can be offered by the City.

(3) That the weather conditions will not be so extreme as will prevent men from working during the storm.

(4) That a sufficient amount of normal sewage is flowing in the bulk of the sewers to transport snow to the rivers and harbor.

(5) That the ordinary flow of sewage can be supplemented by water from hydrants where the normal flow is insufficient to transport the snow.

As the snow fighting method involves a new departure in snow removal, every effort has been made to plan the work so as to meet anticipated conditions. This has involved a tremendous amount of detail study and observation of factors heretofore unknown.

To meet the various requirements of the snow fighting problem the following work has been completed.

1. Survey of Sewers:

The depth of sewage and quantity of sediment in 50,000 sewer manholes and the velocity of sewage in 1,098 miles of sewers, in the Boroughs of Manhattan, The Bronx and Brooklyn, have been determined and the information plotted on maps, thus affording data not heretofore available concerning the ability of sewers to transport snow. The "Campaign Map," showing these data for the Boroughs of Manhattan, Brooklyn and The Bronx, is practically complete.

2. Weather Conditions:

Meteorological information regarding the duration, rate of fall, and depth of snowstorms has been studied and all published figures concerning snowfalls and their prediction by observation of the barometer, wet and dry bulb thermometer, direction and force of wind, cloud formation, etc., are available and will be used in conjunction with the weather reports from the U. S. Weather Bureau.

3. Labor Conditions:

A general examination has been made of the available supply of labor and plans for quickly filling the quota required on snow fighting have been prepared. Registration of snow fighters at the various section houses and stables will be started about November 15, 1914. All printing and forms for this purpose have been ordered.

4. Assignments:

After the registration begins notification cards will be sent to all men on the list, giving their assignments and information as to time for reporting and location of stations. Each individual or gang will have a set task to accomplish within a specified time.

5. "The Call to Work":

Should a snowstorm start during the day the Street Cleaning force will be available, and emergency laborers with notification cards, will have instructions to report without special notice. If, however, a storm starts during the night, it will be necessary to call all men. It is proposed that the Police shall co-operate with this Department, so that when notice is given by the Commissioner to Police Headquarters, all patrolmen will be reached by telephone as soon as possible and will call out the regular employees of the Department, as well as the emergency men. A list of all employees and registered laborers will be furnished for each patrolman's beat in the three Boroughs, and in this way it should be possible to get a large number of men into service on short notice. In addition to the notification by the Police Force, the night workers in each Department stable will be utilized for calling men to work.

6. Equipment:

The principal tool used on snow fighting will be the sweeper's pan scraper, supplemented by road scrapers, scoops, plows, picks, etc., all standard Department equipment. It is likewise proposed to increase the snow carrying capacity of sewers by using bags as temporary dams where necessary to increase the depth of water in the manholes.

7. Unscheduled Streets:

On streets where removal is not deemed essential, snow plows attached to automobiles and horse drawn plows will be used for opening roadways for traffic. Street intersections with near side car stops will be cleared while the storm is in progress.

8. Rates of Compensation for Snow Fighters:

(a) Regular D. S. C. Employees:

During ordinary work hours the time of regular employees on snow work will be charged against budgetary appropriations. Outside of regular work hours the time of employees will be charged directly against revenue bonds for snow removal. All overtime will be paid for at regular rates, and, in addition, if the set tasks are accomplished within the time limits specified, all regular employees assigned to the accomplishment of such tasks will be allowed 50 per cent. in addition to their regular rates of compensation. This excess during regular hours will be charged against revenue bonds for snow removal.

(b) Emergency Men:

The cost of emergency labor will be directly chargeable against special revenue bonds, and alternative rates of compensation will be allowed: First, 30 cents per hour for regular work; second, 40 cents per hour if the set tasks are accomplished within the time limits specified. This will enable the Department to offer \$2.40 or \$3.20 per eight-hour shift, depending upon the ability of the men to accomplish the work assigned, thus providing the needed incentive for men to work while a storm is in progress.

(c) Assignments from Other Departments:

Extra clerks, inspectors, checkers, etc., for the Snow Fighting Force will be needed, and it is proposed to offer employees of all departments 50 per cent. in addition to their regular rates for work in connection with the snow fighting force.

The ability to pay men a bonus for the accomplishment of a set task and to provide a higher rate of compensation than can be obtained in ordinary work is one of the most important features of the snow fighting plan. This is essential to the success of the method, as men will not work during snowstorms unless extra pay is allowed.

9. Checking Work:

In each section or district floating checkers and inspectors of the Finance Department, in addition to regular foremen, assistant foremen and acting foremen, will verify the extent and quality of work performed to determine if the assignments have been completed within the time limits allowed.

10. Payments for Work:

Each snow fighter will be provided with a card in duplicate, to be punched at

intervals by the foreman in charge of the gang and verified by the floating checkers, as well as by district inspectors acting under the direction of the Department of Finance. Payrolls will be based upon the punched cards, and each emergency laborer will be identified by a brass or celluloid check in addition to the card.

11. Ordinances:

Section 409 of the Code of Ordinances states: "In all cases the removal of snow and ice from sidewalks must precede the removal of snow and ice from the roadways." Should the city clear the roadway before the storm ceases, the property owners must co-operate with the snow fighting force if they desire to have sidewalk snow removed from the roadways. This will afford an opportunity of securing the co-operation of property owners; tenants or occupants, who may thus become auxiliary members of the snow fighting force. Should the owner, tenant or occupant fail to place sidewalk snow on the roadway before the latter is cleared by the city, it will then be necessary to pile the snow on the outer edge of the sidewalk, where it may be removed later or allowed to remain, depending upon the needs of the locality.

The terms of the ordinance will thus assist the snow fighting force and will tend to bring about that general public co-operation which is so much needed in handling emergency snow work.

12. Publicity Campaign:

A publicity campaign, giving the essential features of the snow fighting work and the necessity for co-operation between citizens and the Department, will be started about November 15th.

Organization and Management. Snow Fighting Force.

Organization:

Three divisions will be organized for snow fighting:

(1) The first line of attack will comprise regular Department employees, supplemented by emergency laborers. The unit of organization will be based upon the sweeper as leader of a squad of emergency laborers, working under the direction of regular department officers.

(2) The first reserve will consist of regular drivers with horses and carts, drafted for a night shift, to clear streets where the snow fighting force cannot use the sewers.

(3) The second reserve will consist of private trucks for day or night service, used as a supplementary force when the two regular forces have been unable to cope with the storm. This reserve force will be covered by the registration of private vehicles and assigned as may be necessary according to the requirements of the situation.

Management:

Definite printed instructions have been drafted to cover all phases of the work, and classes have been started for the officers of the Department. Drills of regular employees will be held after November 15th, and night or day calls will be tried to prove their effectiveness.

The foregoing covers most of the factors involved in the problem of snow fighting, and practically all preliminary work in relation thereto has been completed.

II. Snow Removal Force.

On August 24, 1914, a report was made of the results of bids for snow removal work by contract, and the award of the contracts was approved by the Board of Estimate and Apportionment on September 21, 1914. All preliminary work in connection with the contract snow removal has been completed except the details of the assignment of men from other departments to the supervision of snow removal work. Approximately 700 loading and dump foremen will be required for this purpose, and it is expected that the various departments of the City will be able to provide the needed force.

It is proposed to pay all men assigned from other departments to the supervision of contract snow removal from the revenue bond fund, allowing 50 per cent. extra pay while so employed.

Tentative arrangements have been made with the contractors to place automobile and horse-drawn plows at work on the principal thoroughfares when a snowfall starts, with the object of keeping roadways open while the storm is in progress.

III. Street Railway Work.

Assignments for the various street railway companies have been drafted and presented to the companies for approval. Negotiations for the use of sewers by the companies are under way, and will be reported upon by a special committee appointed by the Board of Estimate and Apportionment for this purpose.

Action Requested.

As the novel feature of next winter's snow plan involves the use of the Snow Fighting Force, I respectfully request that the Board of Estimate and Apportionment approve the general plan and methods herein outlined, and that the Department be authorized to proceed with the work as suggested in this report.

Respectfully yours, J. T. FETHERSTON, Commissioner.

City of New York, Office of the President of the Board of Aldermen, City Hall, November 17, 1914.

To the Honorable Board of Estimate and Apportionment:

Sirs—On June 26, 1914, the Commissioner of Street Cleaning submitted to your Board a preliminary memorandum covering a proposed plan for snow work during the winter of 1914-1915, which was referred to your Committee on Street Cleaning, and after approval by that Committee was adopted by your Board. Under date of November 10th, the Commissioner of Street Cleaning has submitted to the Committee on Street Cleaning, for report to this Board, final plans for the removal of snow, elaborating the general scheme previously submitted, and explaining in some detail the methods to be pursued in putting it into execution.

The plan and procedure for using sewers to dispose of snow, as submitted, appear to be logical in their conception, and the preparatory steps have been developed on practical lines which give promise of a more successful solution of this problem than has heretofore been possible. Inasmuch as a heavy fall of snow in The City of New York is a real emergency, it needs to be met with true emergency measures. The concentration of a large working force for a few days is the prime requisite, and one which has never been met in the past. Attempts have been made to draw on the personnel of the various city departments, but inasmuch as no inducements were offered to the individuals who were requisitioned for this work, and as the tasks imposed upon them were difficult and had to be carried out under time and weather conditions, which, in themselves, were unpleasant, there has never been that full measure of co-operation upon which success was dependent.

The proposed plan takes these facts into consideration, and is expected to overcome this difficulty by offering to pay employees of City departments one and one-half times their rate of compensation during the time of employment in this emergency work. Inasmuch as it is more than likely that the individuals who will be drafted for this special work would have, in any case, continued their employment in the departments at their regular salary, and the recruiting of the snow emergency force from the outside would have entailed an additional expense, the proposed method will actually cost the city less than if the old methods were employed. On the other hand, the city employees will be glad to undertake this emergency task in view of the additional compensation which will be paid to them when so doing. It is, of course, understood that they would accept this emergency employment as temporary, and during such periods they would be on leave, without pay, in the departments where regularly employed. Your Committee recognizes that the payment of 50 per cent. over the regular pay being received by the city employees is a liberal amount, and justified only by an emergency. It, therefore, recommends approving this rate for the first big storm, at which time more accurate information as to the actual cost of this proposed schedule can be obtained, and if it then seems desirable to revise the rates for the balance of the winter, action to that end may be taken.

The basis of organization of the "Snow Fighting Force" appeals to the judgment of your Committee in theory. The effectiveness of the new method will, of course, depend upon the proper organization and administration of this temporary force. The report of the Street Cleaning Commissioner indicates that the ascertainable factors looking toward successful operation have been carefully canvassed and if no serious miscalculations have been made, the plan ought to be successful.

The Commissioner proposes to introduce the principle of bonus payments for the accomplishment of set tasks within specified time limits, and it appears to your Committee that any reasonable measures which will protect the City against being tied up, as has been the case in the past, whenever a particularly severe storm occurred, are justifiable and should be encouraged.

Your Committee herewith, after a careful study of the proposed plan, and the

measures to carry it into effect, wishes to register its approval of the same, and recommends that it be adopted by this Board.

Yours very truly,

COMMITTEE ON STREET CLEANING.
GEORGE McANENY, President, Board of Aldermen, Chairman; MAURICE E. CONNOLLY, President, Borough of Queens; C. J. McCORMACK, President, Borough of Richmond.

Hon. John T. Fetherston, Commissioner of Street Cleaning, appeared in support of the plans submitted by him.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby adopts and approves the plans for the removal of snow for the winter season of 1914-1915 in the Boroughs of Manhattan, Brooklyn and The Bronx, as submitted by the Commissioner of Street Cleaning under date of November 10, 1914, and recommended for adoption by the Committee on Street Cleaning in its report to the Board, dated November 17, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The President of the Borough of Queens offered a motion that the plans for snow removal for the Boroughs of Manhattan, Brooklyn and The Bronx, submitted in the foregoing report, be also applied to the Boroughs of Queens and Richmond, and requested that the motion be placed upon the Calendar for consideration at the meeting of the Board on November 25, 1914.

Which request was agreed to by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

From the Department of Finance.

President, Borough of Queens—Modification of Schedule (Cal. No. 31).

The Secretary presented a communication dated November 4, 1914, from the President of the Borough of Queens, requesting the modification of schedules for 1914; and the following report of the Comptroller recommending approval thereof:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 14, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—On November 4, 1914, the President of the Borough of Queens requested modification of the schedules supporting the appropriation made in Account No. 673T.S., Personal Service, Wages Regular Employees, Topographical, Tax Levy and Special and Trust Fund Force.

On September 21, 1914, the Comptroller was authorized by your Board to issue special revenue bonds to the amount of \$104.50 for the purpose of providing the necessary funds to pay the increase in wages of a Flagger from \$4 to \$4.50 per diem for the period from April 24 to December 31, 1914. It therefore becomes necessary to change the line in Account No. 673T.S. reading "Flagger (303 days), at \$4 per day, \$1,212," to read "Flagger (94 days), at \$4 per day, \$376," and "Flagger (209 days), at \$4.50 per diem, \$940.50." The deficiency in this account was made up by the issuance of special revenue bonds referred to amounting to \$104.50.

Inasmuch as your Board has approved the issuance of special revenue bonds referred to for this purpose, the adoption of the attached resolution approving the schedules as revised is hereby recommended.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the schedule, as revised, for the office of the President of the Borough of Queens, for the year 1914, as follows:

Personal Service, Wages Regular Employees, Topographical.
673TSR Tax Levy, Special and Trust Fund Force and Special Revenue

Bond—

Foreman, 2 at \$4 per day (303 days).....	\$2,424 00
Assistant Foreman, 2 at \$3.25 per day (303 days).....	1,969 50
Driver, 1 at \$3 per day (303 days).....	909 00
Driver, 1 at \$2.75 per day (303 days).....	833 25
Flagger, 1 at \$4 per day (94 days).....	376 00
Flagger, 1 at \$4.50 per day (209 days).....	940 50
Laborer, 1 at \$4 per day (303 days).....	1,212 00
Laborer, 8 at \$3 per day (303 days).....	7,272 00
Laborer, 8 at \$2.75 per day (303 days).....	6,666 00
Laborer, 16 at \$2.50 per day (303 days).....	12,120 00

Schedule Total..... \$34,722 25

Tax Levy Allowance..... \$31,284 75
Special and Trust Fund Allowance..... 3,333 00
Special Revenue Bond Allowance..... 104 50

\$34,722 25

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

President, Borough of Richmond—Modification of Schedules (Cal. No. 32).

The Secretary presented a communication dated November 6, 1914, from the President of the Borough of Richmond, requesting the modification of schedules for 1914; and the following report of the Comptroller, recommending approval thereof:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 10, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—On November 6, 1914, the President of the Borough of Richmond requested the modification of salary schedules supporting appropriations made to that Department for 1914, in Account No. 756T.C.S., Personal Service, Salaries Regular Employees, Engineering, Construction, Tax Levy, Corporate Stock and Special and Trust Fund Force, and in Account No. 799T.S., Care of Highways.

It is proposed that the lines in Account No. 756T.C.S. reading:

Tax Levy Allowance..... \$91,720 80
Corporate Stock Allowance..... 32,799 20

Total \$124,520 00

—be changed to read:

Tax Levy Allowance..... \$92,887 47
Corporate Stock Allowance..... 31,632 53

Total \$124,520 00

—and the lines in Account No. 799T.S. reading:

Tax Levy Allowance..... \$148,726 17

be changed to read:

Tax Levy Allowance..... \$147,559 50
Corporate Stock Allowance..... 1,166 67

Total \$148,726 17

On August 27, 1914, the Board of Estimate and Apportionment adopted resolutions modifying the schedules referred to by reducing the number of Assistant Engineers at \$2,000 per annum in Account No. 756T.C.S. from six to five, adding one Assistant Engineer at \$2,000 per annum in Account No. 799T.S., and approving a cash transfer of \$833.33 to provide for the salary of this Assistant Engineer for the remainder of 1914. As the result of this modification, the total tax levy schedule allowance in Account No. 756T.C.S. was reduced by \$2,000, and the total tax levy schedule allowance in Account No. 799T.S. increased by the same amount.

It now appears, however, that the Assistant Engineer who was transferred had been employed since January 1, 1914, on repaving work and his salary to July 31st

last, amounting to \$1,166.67, had been paid from Corporate Stock funds, so that instead of reducing the amount of the total tax levy schedule allowance by \$2,000 in Account No. 756T.C.S., there should have been deducted \$833.33 from the tax levy and \$1,166.67 from the corporate stock allowance, and a corresponding increase made in Account No. 799T.S.

As the matter stands, the sum of \$1,166.67 of tax levy funds still remains in Account No. 756T.C.S., but it cannot be utilized unless the requested modification is made.

No increase in the force, the amount of appropriation, or in the salary of individuals is involved in these proposed changes.

The adoption of the attached resolution approving the schedules, as revised, is therefore recommended.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the schedules, as revised, for the office of the President of the Borough of Richmond for 1914, as follows:

Personal Service, Salaries, Regular Employees.

756TCS Tax Levy, Corporate Stock and Special and Trust Fund Force,	
Engineering Construction—	
Engineer	\$5,000 00
Principal Assistant Engineer	3,600 00
Assistant Engineer	3,000 00
Assistant Engineer, 3 at \$2,700	8,100 00
Assistant Engineer, 2 at \$2,400	4,800 00
Assistant Engineer, 5 at \$2,250	11,250 00
Assistant Engineer, 5 at \$2,000	10,000 00
Assistant Engineer, 3 at \$1,800	5,400 00
Assistant Engineer, 4 at \$1,650	6,600 00
Assistant Engineer	1,500 00
Transitman, 2 at \$1,800	3,600 00
Transitman	1,650 00
Transitman, 2 at \$1,350	2,700 00
Transitman and Computer, 3 at \$1,650	4,950 00
Transitman and Computer, 2 at \$1,350	2,700 00
Rodman, 4 at \$1,350	5,400 00
Rodman, 4 at \$1,200	4,800 00
Rodman, 2 at \$900	1,800 00
Axeman, 12 at \$900	10,800 00
Topographical Draftsman	2,000 00
Topographical Draftsman, 5 at \$1,800	9,000 00
Topographical Draftsman, 5 at \$1,650	8,250 00
Topographical Draftsman	1,500 00
Topographical Draftsman	1,200 00
Junior Draftsman	1,050 00
Searcher	1,200 00
Clerk	1,800 00
Chief Clerk	1,650 00
Clerk	1,350 00
Stenographer and Typewriter, 2 at \$1,650	3,300 00
Typewriting Copyist	900 00
Messenger	1,200 00
Automobile Engineman	1,200 00
Automobile Engineman	1,050 00
Foreman	1,050 00
Balance Unassigned	1,400 00

Schedule Total

Tax Levy Allowance

Corporate Stock Allowance

Special and Trust Fund Allowance

Total Allowance

799TS Care of Highways

Tax Levy Allowance

Special and Trust Fund Allowance

Corporate Stock Allowance

\$173,784 17

BUREAU OF HIGHWAYS.

Number of Incumbents.	Position, Salary or Wage Rate.	Chargeable To.
1	Superintendent, \$3,000 per annum	Tax Levy
1	Chief Clerk, \$2,000 per annum	Tax Levy
1	Senior Clerk, \$1,320 per annum	Tax Levy
1	Stenographer and Typewriter, \$1,500 per annum	Tax Levy
1	Stenographer and Typewriter, \$900 per annum	Tax Levy
1	Cashier, \$1,500 per annum	Tax Levy
1	Assistant Engineer, \$2,250 per annum	Tax Levy
1	Assistant Engineer, \$2,000 per annum	Tax Levy
1	Clerk, \$1,200 per annum	Res. and Rep. Spec. Fd., \$1,200
5	Inspectors, \$1,350, \$1,500, \$1,650 per annum	Res. and Rep. Spec. Fd., \$1,350
1	Inspector, \$1,350 per annum	Res. and Rep. Spec. Fd., \$1,350
1	Leveler, \$1,650 per annum	Res. and Rep. Spec. Fd., \$1,650
Unlimited.	Foreman, \$3, \$3.25, \$3.50, \$3.75, \$4, \$4.25, \$4.50 per diem	
Unlimited.	Assistant Foreman, \$3, \$3.25, \$3.50 per diem	
Unlimited.	Laborers, \$2, \$2.25, \$2.50, \$2.75, \$3 per diem	
Unlimited.	Steam Roller Engineers, \$4.50, \$4.75, \$5 per diem	
Unlimited.	Stokers, \$3, \$3.25, \$3.50 per diem	
Unlimited.	Drivers, \$2.50, \$3 per diem	
Unlimited.	Horse and Vehicle with Driver, \$3, \$3.25, \$3.50 per diem	
Unlimited.	Team and Vehicle with Driver, \$5, \$5.25, \$5.50, \$5.75, \$6 per diem	

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

District Attorney, Kings County—Modification of Schedule (Cal. No. 33).

The Secretary presented a communication received September 28, 1914, from the District Attorney, Kings County, requesting the modification of schedule for 1914, and the following report of the Comptroller recommending approval thereof:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 10, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—On September 28, 1914, the District Attorney of Kings County requested modification of the salary schedule supporting the budget appropriation made to that office for 1914 in account No. 3380, Personal Service, Salaries Regular Employees.

To effect the proposed modification, it is requested that the lines reading:

3380 Assistant District Attorney, 4 at \$6,000

Balance unassigned

Total

be made to read as follows:

3380 Assistant District Attorney, 3 at \$6,000

Assistant District Attorney

Balance unassigned

Total

The District Attorney states that on September 25, 1914, Edward A. Freshman, an Assistant District Attorney, employed in his office at the rate of \$6,000 per annum, resigned, and that on the same date Ralph E. Hemstreet was appointed to that position at a salary of \$5,000 per annum.

It therefore becomes necessary to change the line reading "Assistant District Attorney, 4 at \$6,000," to read "Assistant District Attorney, 3 at \$6,000," and to add the line "Assistant District Attorney, at \$5,000," thereby increasing the line "Balance unassigned" by \$1,000, as stated.

The line item changes in detail are then as follows:

Account No.	Existing Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
3380	Assistant District Attorney, 4 at \$6,000	\$6,000 00		\$1,600 00	
	Assistant District Attorney at \$5,000		\$5,000 00		\$1,333 33
	Balance unassigned, \$2,400		1,000 00		266 67
		\$6,000 00	\$6,000 00	\$1,600 00	\$1,600 00

This modification provides merely for the substitution of a \$5,000 position for a \$6,000 position, and as the District Attorney has power under the laws pertaining to his office to fix the salaries of his assistants, the adoption of the attached resolution approving the schedules, as revised, is hereby recommended. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the District Attorney of Kings County for the year 1914, to take effect as of September 25, 1914, as follows:

DISTRICT ATTORNEY, KINGS COUNTY.

Personal Service.

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
3380 Salaries, Regular Employees—			
District Attorney	\$10,000 00		\$10,000 00
Assistant District Attorney	7,500 00		7,500 00
Assistant District Attorney, 3 at \$6,000	17,500 00	\$500 00	18,000 00
Assistant District Attorney	5,500 00		5,500 00
Assistant District Attorney	5,000 00		5,000 00
Assistant District Attorney, 3 at \$4,500	13,500 00	500 00	14,000 00
Assistant District Attorney	4,000 00		4,000 00
Assistant District Attorney, 2 at \$3,000	5,500 00	500 00	6,000 00
Deputy Assistant District Attorney	2,000 00		2,000 00
Chief Clerk	4,000 00	1,000 00	5,000 00
Clerk	1,800 00		1,800 00
Clerk	1,500 00		1,500 00
Clerk	1,350 00	300 00	1,650 00
Clerk	1,200 00	150 00	1,350 00
Clerk	1,000 00	350 00	1,350 00
Clerk	1,200 00		1,200 00
Stenographer and Private Secretary	1,200 00		1,200 00
Stenographer and Private Secretary, 4 at \$1,500	6,000 00		6,000 00
Stenographer to Grand Jury, 2 at \$2,000	4,000 00		4,000 00
County Detective	1,800 00		1,800 00
County Detective, 2 at \$1,500	2,700 00	300 00	3,000 00
County Detective, 2 at \$1,350	2,700 00		2,700 00
County Detective, 5 at \$1,200	5,600 00	400 00	6,000 00
County Detective, 2 at \$1,000	2,000 00		2,000 00
Process Server, 7 at \$1,000	7,000 00		7,000 00
Messenger	1,200 00		1,200 00
Doorkeeper	1,200 00		1,200 00
Telephone Operator	720 00		720 00
Balance Unassigned	2,400 00		2,400 00

Schedule Total

Tax Levy Allowance

Special Revenue Bond Allowance

\$124,570 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

New York Public Library—Transfer of Appropriation and Modification of Schedules (Cal. No. 34).

The Secretary presented a communication dated September 11, 1914, from the Board of Trustees of the New York Public Library requesting the modification of schedules and transfer of appropriation for 1914; and the following report of the Comptroller recommending, in view of opinions of the Corporation Counsel, that modifications of salary schedules for the New York Public Library be discontinued: City of New York, Department of Finance, Comptroller's Office, November 16, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On September 11, 1914, the Trustees of the New York Public Library requested modification of schedules 1455, Salaries Regular Employees, Administration; 1458, Salaries Regular Employees, Circulation of Books, Cataloguing, and 1460, Salaries Regular Employees, Circulation of Books, Branch Libraries, to take effect September 1, 1914, involving a cash transfer of \$100. In connection therewith I report as follows:

The Budget for 1913 segregated the appropriations for public libraries. The library authorities questioned the power of the Board of Estimate and Apportionment to control through such segregation the expenditure of moneys appropriated for the libraries. Under date of March 13, 1914, the Corporation Counsel rendered an opinion concerning the segregation of budgetary allowances for the Brooklyn Public Library in response to a communication from the Comptroller, which read as follows:

"I ask to be advised whether the Comptroller in the audit of payments made to the Trustees of the New York, the Brooklyn or the Queens Borough Libraries, may legally enforce the use of city money for salaries and wages for those libraries as provided in the segregated form of the City Budget for 1913, or whether the moneys must be paid as requisitioned for by the respective Boards of Trustees when those requisitions disregard the Budget segregations.

"For your information in connection with this inquiry, I transmit herewith copy of the Budget for 1913, and copies of the contracts made by the City with the three Boards of Trustees.

"The inquiry is made because two of the library boards in payrolls submitted to the Department of Finance disregarded the Budget salary and wages schedules for their respective organization. All of the library boards, however, appear to conform to the appropriation segregations for other than salary and wages purposes."

In the aforesaid opinion, a copy of which is attached hereto (Exhibit A), the Comptroller was advised that moneys must be paid as requisitioned by the Board of Trustees of the library when the aggregate does not exceed the amount appropriated,

and proper vouchers are submitted, even when such requisitions disregard the Budget segregations.

Under date of April 30, 1914, the Comptroller requested the Corporation Counsel to consider the same phases of the question as were considered in regard to Brooklyn and to advise him along similar lines regarding the powers of the Board of Estimate and Apportionment in respect to moneys appropriated for the New York Public Library and the Queens Borough Public Library.

In an opinion under date of September 17, 1914, a copy of which is submitted herewith (Exhibit B), the Corporation Counsel advised the Comptroller that the Boards of Trustees of the New York Public Library and the Queens Borough Public Library may expend appropriations made for the libraries by the City for salaries and wages in such manner as they may decide to be best suited to the purposes of the libraries.

In accordance with the opinions rendered, the appropriations for the three library systems for 1915 have been made in lump sums respectively for salaries and expenses combined, the bases on which such lump sum allowances were granted being printed in the Budget in full.

Under date of October 15, 1914, Mr. E. H. Anderson, Director of the Library, requested to be informed as to whether the aforesaid opinion of the Corporation Counsel is effective during the remainder of the current year, and if the library authorities are to understand therefrom that it is no longer necessary for them to apply to this Board for modification of salary schedules, as heretofore.

In view of the facts stated, I recommend that the modification of salary schedules for 1914 for the New York Public Library be discontinued henceforth and that a copy of this report be transmitted to the Director of the said library. Respectfully,

WM. A. PRENDERGAST, Comptroller and Chairman, Committee on Education.

Exhibit "A."

City of New York, Law Department, Office of the Corporation Counsel, New York, March 13, 1914.

Hon. WILLIAM A. PRENDERGAST, Comptroller.

Sir—Under date of February 24, 1913, you addressed to me a communication, of which the following is a copy:

"I ask to be advised whether the Comptroller, in the audit of payments made to the Trustees of the New York, the Brooklyn or the Queens Borough Libraries may legally enforce the use of city money for salaries and wages for those libraries as provided in the segregated form of the City Budget for 1913, or whether the moneys must be paid as requisitioned for by the respective Boards of Trustees when those requisitions disregard the Budget segregations.

"For your information in connection with this inquiry, I transmit herewith copy of the Budget for 1913 and copies of the contracts made by the City with the three Boards of Trustees.

"The inquiry is made because two of the library boards in payrolls submitted to the Department of Finance disregarded the Budget salary and wages schedules for their respective organization. All of the library boards, however, appear to conform to the appropriation segregations for other than salary and wages purposes."

You also refer to the matter contained in the letter which I have quoted, by communications dated March 3, 1913, and June 30, 1913. Since the receipt of these letters, several conferences have occurred between members of your staff and mine.

The reciprocal duties and obligations of the city and the Brooklyn Public Library are defined by an agreement, executed June 5, 1903, between the Library and the Board of Estimate and Apportionment, acting through powers conferred by chapter 606 of the laws of 1902. By section 4 of that agreement it is provided that the city, in addition to the amount which it was obligated to pay under the agreement of September 11, 1901, should

"appropriate and pay for the maintenance and support of said Brooklyn Public Library such sums as may be requisite for the proper maintenance of the libraries heretofore under the administration of the Board of Directors of the Brooklyn Public Library and of the corporation 'the Brooklyn Library,' above mentioned, such amounts to constitute a City charge and to be provided for in the annual budget and tax levy of the City. It is, however, agreed and understood, as provided in section 5 of chapter 606 of the laws of 1902, that the entire amount of the annual appropriation made by the Board of Estimate and Apportionment of the City of New York for the conduct and maintenance of free public libraries in the Borough of Brooklyn, shall be disbursed and paid from time to time by the Comptroller, upon submission to him of proper vouchers in form to be approved by him, for obligations incurred or moneys expended for the use and purposes of the said free library system."

The agreement of September 11, 1901, to which reference is made in the contract above mentioned, was an agreement between the City and the trustees designated by Andrew Carnegie. By section 4 of this agreement with the Carnegie trustees, the city contracted

"adequately to provide, through the Brooklyn Public Library as its administrative agent or such other public agency as may be hereafter provided by law, for the maintenance of the free public branch libraries to be erected pursuant to this agreement and of traveling libraries in said City."

The relations existing between the city and the Brooklyn Public Library are, therefore, purely contractual, and consequently the Board of Estimate and Apportionment is not free to exercise the same power of discretion by which it may control the expenditure of appropriations by municipal departments. The city has agreed in its contract dated June 5, 1903, to appropriate "requisite" sums of money for the proper maintenance of the libraries formerly under the administration of the old Brooklyn Public Library and the Brooklyn Library, such amounts to constitute a city charge and to be provided for in the annual budget and tax levy of the city. It had also contracted, in its agreement of September 11, 1901, "adequately to provide," through the new Brooklyn Public Library, as its administrative agent, for the maintenance of the Carnegie branch libraries. The Board of Estimate and Apportionment has decided what sums shall constitute requisite amounts and adequate provision, and has designated particular sums of money for particular purposes. I do not understand from a reading of section 4 of the contract dated June 5, 1903, that the city bound itself to contribute such sums of money as the trustees of the library might determine to be requisite.

A question arises, by reason of the failure to define the meaning of the expressions "requisite" and "adequately to provide," and to designate the body who shall determine what may constitute a requisite sum and an adequate provision. It has been urged that the body which makes the appropriation, rather than the body which expends it, should be regarded as the arbiter, and that if this body should, in its discretion, decide that certain sums of money are necessary for library purposes, then, in the absence of clearly proved error or bad faith, its judgment should be final.

When the city entered into its agreement with the library, it necessarily made its contract in the light of the statutes then existing. It would seem that the party charged with the maintenance of the library should be the party to decide in the first instance what sums should be requisite and adequate, but nowhere in the agreement can I find any evidence of intention to select the Board of Trustees of the library as the final arbiter. Its decision in the first instance must, I think, be subject to the opinion and decision of the Board of Estimate and Apportionment, and, when this Board has appropriated moneys, its action in that regard is evidence that the sum so appropriated is "requisite" and an "adequate provision."

It does not follow, however, that the Board of Estimate and Apportionment possesses any power in respect to the administration of the moneys after they may be appropriated. By the statutes governing the libraries to which the present Brooklyn Public Library is the successors (chapter 441, laws of 1892, and chapter 497, laws of 1897), as well as by chapter 606 of the laws of 1902, and by the agreements executed between the City and the Carnegie trustees September 11, 1901, and the City and the library June 5, 1903, the Board of Trustees of the library, rather than the Board of Estimate and Apportionment, is charged with the duty of administration. That duty includes in part the expenditure or conservation of all moneys received by the library, whether these moneys may be derived from fines, endowment funds, gifts or appropriations from the municipal authorities. Within a narrower compass, the duty of administering these moneys includes the right to define the particular purpose and particular sums for which they may be spent in detail for books, rent, salaries and wages, insurance, repairs and other items. If, in the administration of the library properties, the Board of Trustees should expend a certain sum of money during a certain year and should request the Board of Estimate and Apportionment to appropriate for the following year moneys sufficient to enable the trustees to expend a like amount for that year, the Board of Estimate and Apportionment would, if it considered such a sum

in excess of a "requisite" sum or an "adequate provision," be justified in a refusal to make as large an appropriation as requested. Its duty is discharged when it makes a "requisite" or necessary appropriation, and "adequately" provides funds for maintenance.

I accordingly advise you that moneys must be paid as requisitioned by the Board of Trustees, when the aggregate does not exceed the amount appropriated, and proper vouchers in forms approved by you are submitted, even when those requisitions disregard the budget segregations. Respectfully yours,

(Signed) FRANK L. POLK, Corporation Counsel.

Exhibit "B."

City of New York, Law Department, Office of the Corporation Counsel, New York, September 17, 1914.

Hon. WILLIAM A. PRENDERGAST, Comptroller.

Sir—I am in receipt of the following communication dated April 30, 1914, and signed by Charles S. Hervey, Deputy Comptroller:

"Under date of March 13th, 1914, you rendered an opinion concerning the Brooklyn Public Library, in response to a communication from the Comptroller, of which the following is a copy:

"I ask to be advised whether the Comptroller, in the audit of payments made to the Trustees of the New York, the Brooklyn or the Queens Borough Libraries may legally enforce the use of city money for salaries and wages for those libraries, as provided in the segregated form of the City Budget for 1913, or whether the moneys must be paid as requisitioned for by the respective Boards of Trustees when those requisitions disregard the Budget segregations.

"For your information in connection with this inquiry, I transmit herewith copy of the Budget for 1913 and copies of the contracts made by the City with the three Boards of Trustees.

"The inquiry is made because two of the library boards, in payrolls submitted to the Department of Finance, disregarded the Budget salary and wages schedules for their respective organization. All of the library boards, however, appear to conform to the appropriation segregations for other than salary and wages purposes."

"In the said opinion you advise that moneys must be paid as requisitioned by the Board of Trustees of the Library, when the aggregate does not exceed the amount appropriated and proper vouchers, in forms approved by you are submitted, even when those requisitions disregard the Budget segregations.

"It appears that your opinion of March 13th relates to the Brooklyn Public Library only. Considering the same phases of the question as were considered in regard to Brooklyn, will you please advise me along similar lines regarding the powers of the Board of Estimate and Apportionment in respect to the administration of moneys appropriated for the New York Public Library and the Queens Borough Public Library."

The opinion dated March 13, 1914, dealt with the contractual relations existing between the City and the Brooklyn Public Library only, for the reason that subsequent to the receipt of your letter requesting advice this office was informed that the New York Public Library and the Queens Borough Public Library were conforming to the schedules for salaries and wages as set forth in the budget. I will now, however, as requested, consider the City's relations to the two last mentioned libraries.

On December 8, 1897, the Mayor, Aldermen and Commonalty of The City of New York, acting through the Board of Estimate and Apportionment, executed a contract with the New York Public Library, Astor, Lenox and Tilden Foundations. This agreement relates to the new library building to be erected at Fifth Avenue and 42nd street on the site formerly occupied by the reservoir, and provides, among other things, that the New York Public Library shall have the right to occupy such building as long as it continues to maintain it as a public library and reading room.

Paragraph "Second" provides that the City shall on reasonable demand at all times maintain and keep the building in repair.

Paragraph "Seventh" stipulates that the library "shall appoint, direct, control and remove all persons employed within said building in and about the care of the building and the library and collections therein contained; * * *"

Paragraph "Eighth" appears in this form:

"The City shall annually provide funds for the maintenance and repair of the building and the City authorities or Department of Public Parks, acting under its direction, shall at all times provide and care for the roads, walks, fences, grading and general care of the grounds and appurtenances attached thereto. The City, in addition, shall at all times furnish a supply of water and adequate police patrol and protection. With the limitations already defined, the party of the second part shall exercise entire direction and management over all the affairs of the library building and the books, collections and appurtenances." The only financial burden assumed by the City in this agreement is the obligation to provide funds for the maintenance and repair of the building, and to furnish a supply of water and adequate police patrol and protection.

On July 17, 1901, the City, acting through the Board of Estimate and Apportionment, executed another agreement with the New York Public Library. This contract relates to the erection and maintenance of certain branch libraries which were to be brought into existence through gifts from Andrew Carnegie. The essence of this agreement is that the City shall provide the sites, Mr. Carnegie shall provide money for constructing and equipping the buildings, and the City shall provide for their maintenance.

Paragraph "Third" provides that the New York Public Library shall complete these branch library buildings as soon as possible "and thereafter to conduct and carry on in the same respectively with funds to be provided by the party of the first part (the City) as hereinafter provided, free public libraries for circulation with reading rooms, and to devote the same to the use of the public."

Paragraph "Fourth" provides:

"The party of the first part (the City) further agrees adequately to provide for maintenance of the free public branch libraries to be erected pursuant to this agreement and of traveling libraries in said City, and to that end to provide in each year in the annual budget and tax levy of said City a sum not less than ten per centum of the amount expended by said Andrew Carnegie under the provisions of said act, which sum shall be expended for the maintenance of the branch libraries to be hereafter constructed pursuant to this contract, which maintenance shall be provided for said libraries to be hereafter constructed as rapidly as the same are obtained; * * * and provided, further, that the obligation hereby assumed by the party of the first part to provide for such a maintenance a sum not less than ten per centum of the amount so expended by said Andrew Carnegie shall not be taken to limit the right of said Board of Estimate and Apportionment to appropriate for such maintenance any larger sum if in its discretion additional appropriation should be required."

Paragraph "Seventh" provides:

"* * * the party of the second part (the library), however, shall appoint, direct, control and remove all persons employed within the said buildings, respectively, and in the care of the same; all fines to be exacted from any person or persons shall be retained by the party of the second part applied to the business of circulation and duly accounted for in its accounts. All balances of annual appropriations made by the party of the first part and not duly expended by the party of the second part for the maintenance of such libraries during the calendar years for which such appropriations shall have been made, shall be accounted for and paid by the said party of the second part to the comptroller of The City of New York, to be deposited to the credit of the General Fund for the Reduction of Taxation within sixty days after the expiration of each of such calendar years."

By Paragraph "Eighth" the City bound itself, in addition to the provision for maintenance heretofore provided for, annually to provide funds for the repair of the several buildings located upon sites owned by the City and to furnish a supply of water. That paragraph then continues in this language:

"With the limitations already defined, the party of the second part (the library) shall exercise protection and management over the affairs of the several library buildings and the books, collections and appurtenances."

It follows that the Board of Trustees of the New York Public Library, being clothed with authority under its contract with the City to "direct and control" persons employed within the branch libraries, and to "exercise protection and management over the affairs of the several library buildings" may expend appropriations made to it by the City for salaries and wages in such a manner as the trustees may

decide to be best suited to that purpose. Moneys must be paid by the comptroller on proper vouchers for salaries and wages when requisitioned by the Board of Trustees, even when those requisitions disregard the budget segregations.

Chapter 164 of the Laws of 1907 incorporated the Queens Borough Public Library and merged in the corporation thus created the Queens Borough Library. Section 3 of that act provides:

"The trustees shall have absolute control of the expenditure of all moneys appropriated by the City of New York for the maintenance of libraries conducted or to be conducted by the corporation in the Borough of Queens, and shall have the power to appoint and fix the salaries of such officers and employees as they shall deem necessary, who, unless employed under special contract, shall hold their offices during the pleasure of the trustees; but no trustee shall receive compensation as such, and the authority of the trustees to so make and regulate expenditures for maintenance and their right to select, employ, fix salaries and discharge employees shall be absolute under this act, any acts under the Legislature of the State of New York to the contrary notwithstanding."

This act took effect April 17, 1907, and on October 18, 1907, the City, acting through the Board of Estimate and Apportionment, entered into a contract with the Queens Borough Public Library.

The "Third" paragraph thereof provides:

"That the City, in addition to the amount which it is obligated to pay under the agreement of September 11, 1901 (contract between the Board of Estimate and Apportionment and the agents of Andrew Carnegie) will appropriate and pay for the maintenance and support of the Queens Borough Public Library such sums as may be requisite for the proper maintenance of the libraries under its jurisdiction, such amounts to constitute a City charge and to be provided for in the annual budget and tax levy of said City."

Paragraph "Third" contains this additional stipulation:

"It is, however, agreed that the entire amount of the annual appropriations as made by the Board of Estimate and Apportionment for the conduct and maintenance which free public libraries in the Borough of Queens, shall be disbursed and paid by the Comptroller to the Queens Borough Public Library upon submission to him of a statement of obligations incurred or of moneys expended for the use and purposes of said free library system; provided, however, that on and after December 31, 1907, one-twelfth of the amount appropriated for the yearly salaries shall be paid over by said comptroller to the Queens Borough Public Library on the last day of each month, and upon the payment of said obligations by the Queens Borough Public Library proper vouchers and accounts shall be returned to the comptroller of the City of New York for such expenditures."

Both in Section 3, Chapter 164, of the Laws of 1907, and in paragraph "Third" of the agreement dated October 18, 1907, the broadest power is granted to the trustees of the library to determine the appropriations granted for salaries and wages of its employees and to fix such salaries and wages within such appropriation.

I have been furnished with a copy of a resolution adopted by the trustees of the Queens Borough Public Library on October 13, 1911, whereby the trustees assumed to waive for the year 1912 the power to fix salaries and wages, and, so far as I have been able to discover, that waiver applied only to the year 1912.

Unless the Board of Trustees has since abdicated its power under the statute and the contract, moneys for salaries and wages must be paid as requisitioned for, even when those requisitions disregard the budget segregations.

Respectfully yours, (Signed) FRANK L. POLK, Corporation Counsel.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby determines to discontinue henceforth the modification of salary schedules for the year 1914 for the New York Public Library, in view of the opinions of the Corporation Counsel dated March 13 and September 17, 1914, that the Boards of Trustees of the New York Public Library and the Queens Borough Public Library may expend appropriations made by the City for the libraries for salaries and wages in such manner as they may decide to be best suited to the purposes of the libraries.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary was then directed to send a copy of the report of the Comptroller to the Director of the New York Public Library.

National Guard and Naval Militia, County of New York—Modification of Schedule (Cal. No. 35).

The Secretary presented a report of the Comptroller recommending approval of a schedule for National Guard and Naval Militia, County of New York, for the year 1914, to take effect as of November 5, 1914, for the special revenue bond allowance under the provisions of subdivision 7, section 188 of the Charter, of \$399 for the wages of one additional Armorer at \$4 per day for 57 days, and one Laborer at \$3 per day for 57 days in the Headquarters, First Battalion, Signal Corps.

Which was laid over until November 25, 1914.

Department of Water Supply, Gas and Electricity—Modification of Schedule (Cal. No. 36).

The Secretary presented a communication dated October 29, 1914, from the Commissioner of Water Supply, Gas and Electricity, requesting the modification of a schedule for 1914, and the following report of the Comptroller, recommending approval thereof:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 10, 1914.

To the Board of Estimate and Apportionment of The City of New York:

Gentlemen—In a communication dated October 29, 1914, the Department of Water Supply, Gas and Electricity requested modification of the schedule supporting the budget appropriation in Account No. 2269W—Contract or Open Order Service, Transportation, Hire of Horses and Vehicles with Drivers, Water Supply, Collection and Storage, Water Revenue Force.

In reference to the modification requested it is proposed that the line reading:

Driver with Team and Vehicle, at \$5 per day (1,960 days) \$9,800 00

be changed to read:

Driver, with Team and Vehicle, at \$5 per day (1,510 days) 7,550 00

and to add the line:

Driver, with Team and Vehicle, at \$4.50 per day (500 days) 2,250 00

The purpose of the proposed modification is to provide funds for the employment of Drivers with Team and Vehicle, at \$4.50 per day, instead of at the \$5 per day rate, thereby increasing the force without additional cost to the City.

In view of the advantage to be gained by the department by making this change, the adoption of the attached resolution approving the schedule, as revised, is hereby recommended. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Water Supply, Gas and Electricity, for the year 1914, as follows:

Contract or Open Order Service, Transportation, Hire of Horses and Vehicles with Drivers, Collection and Storage.

2269W. Water Revenue Force—
Driver with Team and Vehicle, at \$5 per day (1,510 days) \$7,550 00
Driver with Team and Vehicle at \$4.50 per day (500 days) 2,250 00
Driver with Horse and Vehicle at \$4.00 per day (2½ days) 10 00
Driver with Horse and Vehicle at \$3.50 per day (50 days) 175 00
Driver with Horse and Vehicle at \$3.00 per day (60 days) 180 00

Schedule Total \$10,165 00

Water Revenue Allowance \$10,165 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Bridges—Modification of Schedules (Cal. No. 37).

The Secretary presented a communication dated November 6, 1914, from the

Commissioner of Bridges, requesting the modification of schedules for 1914; and the following report of the Comptroller, recommending approval thereof:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 16, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—In a communication dated November 6, 1914, the Commissioner of the Department of Bridges requested the modification of two wage schedules for Personal Service, Wages Temporary Employees supporting the appropriations made to Accounts Nos. 2764 and 2765B for Care of Bridges, Tax Levy Force, and Care of Bridges, Bridge Revenue Force, respectively.

In reference to the request for the modification of the accounts referred to, it is proposed that the lines now reading:

2764 Bridge Mechanic, Housesmith or Bridgeman and Riveter, at \$5 per day (379 days) \$1,895 00
Carpenter or Ship Carpenter, at \$5 per day (60 days) 300 00
Pavers, at \$5 per day (15 days) 75 00
Blacksmith, at \$4.50 per day (12 days) 54 00
Rammer, at \$4 per day (6 days) 24 00
Blacksmith's Helper, at \$3 per day (12 days) 36 00
Driver, at \$2.50 per day (120 days) 300 00
Watchman, at \$2.50 per day (14 days) 35 00

\$2,719 00

2765B Machinist, at \$4.50 per day (10 days) \$45 00
Engineman, at \$4.50 per day (10 days) 45 00
Stoker, at \$3 per day (10 days) 30 00
Bridge Mechanic, Housesmith, or Bridgeman and Riveter, at \$5 per day (250 days) 1,250 00
Carpenter or Ship Carpenter, at \$5 per day (42 days) 210 00
Blacksmith, at \$4.50 per day (10 days) 45 00
Mason (Bricklayer), at \$6 per day (9 days) 54 00
Stone Cutter, at \$5 per day (10 days) 50 00
Driver, at \$2.50 per day (10 days) 25 00
Watchman, at \$3 per day (10 days) 30 00
Watchman, at \$2.50 per day (12 days) 30 00
Attendant, at \$2.50 per day (100 days) 250 00

\$2,064 00

be changed to read as follows:

2764 Bridge Mechanic, Housesmith or Bridgeman and Riveter, at \$5 per day (494 days) \$2,470 00
Carpenter or Ship Carpenter, at \$5 per day (14 days) 70 00
Pavers, at \$5 per day (7 days) 35 00
Blacksmith, at \$4.50 per day (2 days) 9 00
Rammer, at \$4 per day (2 days) 8 00
Blacksmith's Helper, at \$3 per day (4 days) 12 00
Driver, at \$2.50 per day (44 days) 110 00
Watchman, at \$2.50 per day (2 days) 5 00

\$2,719 00

2765B Machinist, at \$4.50 per day (15 days) \$67 50
Engineman, at \$4.50 per day (2 days) 9 00
Stoker, at \$3 per day (2 days) 6 00
Bridge Mechanic, Housesmith, or Bridgeman and Riveter, at \$5 per day (294 days) 1,470 00
Carpenter or Ship Carpenter, at \$5 per day (50 days) 250 00
Blacksmith, at \$4.50 per day (2 days) 9 00
Mason (Bricklayer), at \$6 per day (4 days) 24 00
Stone Cutter, at \$5 per day (2 days) 10 00
Driver, at \$2.50 per day (2 days) 5 00
Watchman, at \$3 per day (2 days) 6 00
Watchman, at \$2.50 per day (2 days) 5 00
Attendant, at \$2.50 per day (81 days) 202 50

\$2,064 00

The purpose of the foregoing modifications is to permit the employment of Riveters and Machinists on Sundays and holidays for the remaining part of 1914 in order to make repairs to plates on the 9th Street and Union Street bridges; also for repairs to the deck of the Washington Avenue Bridge; repairs to shaft on the Third Avenue Bridge; and for inspection service and emergency repairs on the Brooklyn Bridge.

The line item changes in detail are as follows:

Ac- count No.	Title.	Schedule Transfer	
		Increase.	Decrease.
2764	Bridge Mechanic, Housesmith or Bridgeman and Riveter, at \$5 per day.....	\$575 00	.....
	Carpenter or Ship Carpenter, at \$5 per day.....	.....	230 00
	Pavers, at \$5 per day.....	.....	40 00
	Blacksmith, at \$4.50 per day.....	.....	45 00
	Rammer, at \$4 per day.....	.....	16 00
	Blacksmith's Helper, at \$3 per day.....	.....	24 00
	Driver, at \$2.50 per day.....	.....	190 00
	Watchman, at \$2.50 per day.....	.....	30 00
	Total changes	\$575 00	\$575 00
2765B	Machinist, at \$4.50 per day.....	\$22 50	.....
	Engineman, at \$4.50 per day.....	.....	\$36 00
	Stoker, at \$3 per day.....	.....	24 00
	Bridge Mechanic, Housesmith or Bridgeman and Riveter, at \$5 per day.....	220 00	.....
	Carpenter or Ship Carpenter, at \$5 per day.....	40 00	.....
	Blacksmith, at \$4.50 per day.....	.....	36 00
	Mason (Bricklayer), at \$6 per day.....	.....	30 00
	Stone Cutter, at \$5 per day.....	.....	40 00
	Driver, at \$2.50 per day.....	.....	20 00
	Watchman, at \$3 per day.....	.....	24 00
	Watchman, at \$2.50 per day.....	.....	25 00
	Attendant, at \$2.50 per day.....	.....	47 50
	Total changes	\$282 50	\$282 50

No increase in force, in the amount of appropriation or in the salary of any individual is involved in the making of these changes.

The adoption of the attached resolution approving the schedules, as revised, is therefore recommended. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the schedules, as revised, for the Department of Bridges for the year 1914, to take effect as of November 1, 1914, as follows:

Personal Service, Wages Temporary Employees, Care of Bridges.

2764 Tax Levy Force—
Bridge Mechanic, Housesmith or Bridgeman and Riveter, at \$5 per day (494 days) \$2,470 00
Carpenter or Ship Carpenter, at \$5 per day (14 days) 70 00
Pavers, at \$5 per day (7 days) 35 00
Wireman or Electrician, at \$4.80 per day (402 days) 1,929 60
Machinist, at \$4.50 per day (37 days) 166 50
Blacksmith, at \$4.50 per day (2 days) 9 00
Painter or Bridge Painter, at \$4 per day (3,217 days) 12,868 00

Rammer, at \$4 per day (2 days).....	8 00
Machinist's Helper, at \$3 per day (10 days).....	30 00
Blacksmith's Helper, at \$3 per day (4 days).....	12 00
Mechanic's Helper, at \$3 per day (10 days).....	30 00
Driver, at \$2.50 per day (44 days).....	110 00
Attendant, at \$2.50 per day (15 days).....	37 50
Watchman, at \$2.50 per day (2 days).....	5 00
Cleaner, at \$2 per day (42 days).....	84 00
Laborer, at \$3 per day (175 days).....	525 00
Laborer, at \$2.75 per day (37 days).....	101 75
Laborer, at \$2.50 per day (913 days).....	2,282 50
Laborer, at \$2 per day (4,495 days).....	8,990 00
Balance unassigned	4 40

Schedule Total\$29,768 25

Personal Service, Wages Temporary Employees, Care of Bridges.

2765B Bridge Revenue Force—	
Machinist, at \$4.50 per day (15 days).....	\$67 50
Machinists', Blacksmiths' or Masons' Helper, at \$3 per day (60 days).....	180 00
Engineman, at \$4.50 per day (2 days).....	9 00
Stoker, at \$3 per day (2 days).....	6 00
Bridge Mechanic, Housesmith or Bridgeman and Riveter, at \$5 per day (294 days).....	1,470 00
Carpenter or Ship Carpenter, at \$5 per day (50 days).....	250 00
Blacksmith, at \$4.50 per day (2 days).....	9 00
Wireman or Electrician, at \$4.80 per day (65 days).....	312 00
Mason (Bricklayer), at \$6 per day (4 days).....	24 00
Stonecutter, at \$5 per day (2 days).....	10 00
Rigger, at \$3.75 per day (12 days).....	45 00
Painter, at \$4 per day (20 days).....	80 00
Driver, at \$2.50 per day (2 days).....	5 00
Watchman, at \$3 per day (2 days).....	6 00
Watchman, at \$2.50 per day (2 days).....	5 00
Attendant, at \$2.50 per day (81 days).....	202 50
Laborer, at \$3 per day (20 days).....	60 00
Laborer, at \$2.75 per day (10 days).....	27 50
Laborer, at \$2.50 per day (50 days).....	125 00
Balance unassigned	5 00

Schedule Total\$2,898 50

Bridge Revenue Allowance\$2,608 63

To be provided, if necessary, by transfer or from Special

Revenue Bonds289 87

Schedule Total\$2,898 50

Which was adopted by the following vote:
Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Police Department—Modification of Schedule (Cal. No. 38).

The Secretary presented a report of the Comptroller recommending the modification of salary schedule No. 1601 for the Police Department for the year 1914, by decreasing the number of Lieutenants at \$2,250 each per annum and increasing the number of Sergeants at \$1,750 each per annum.

Which was laid over until November 25, 1914.

Police Department—Transfer of Appropriation and Modification of Schedules (Cal. No. 39).

The Secretary presented a communication dated November 10, 1914, from the Police Commissioner, requesting a transfer within the appropriation for said Department for 1914; and the following report of the Comptroller recommending approval thereof and modification of schedules:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 17, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—On November 10, 1914, the Police Department requested the transfer of \$1,700 within the appropriations for the year 1914 as follows:

FROM	
1612 Supplies, Office Supplies.....	\$400 00
1627 Contract or Open Order Service, Transportation, Shoeing and Boarding Horses, Including Veterinary Service.....	1,000 00
1632 Contract or Open Order Service, Communications, General Plant Service	300 00
	\$1,700 00
TO	
1614 Supplies, Laundry, Cleaning and Disinfecting Supplies.....	\$450 00
1616 General Plant Supplies.....	200 00
	\$650 00
Contract or Open Order Service.	
1629 Transportation, Carfare.....	700 00
1631 Communication, Telegraph, Cable and Messenger Service.....	350 00
	\$1,700 00

The purpose of the transfers is to place sufficient funds in each of these accounts to defray necessary expenses chargeable to them for the balance of 1914.

Chargeable to Account 1614 there will be laundry bills for Police Headquarters for September, October, November and December, and the last quarter of the laundry contract for Brooklyn Headquarters, amounting in all to approximately \$225.

It is also estimated that for necessary sponges, soap powder and other laundry supplies another \$250 will be required. There is now an unencumbered balance in this account of \$91.22.

In Account 1616, various supplies such as Cartridges, Batteries, Brooms, etc., estimated to cost about \$200, are needed. The present unencumbered balance in this account is \$30.50.

The average monthly expenditures in connection with Account No. 1629 for nine months is \$629.23, the present unencumbered balance is \$751.39, and the requested transfer of \$700, if granted, will provide for the balance of the year.

The average monthly expenditure in connection with Account No. 1631 is \$190.79, and the present unencumbered balance therein is \$292.11. September, October, November and December bills are still to be liquidated, and to obviate the possibility of a shortage in this account the transfer of \$350 is requested.

Appended hereto are resolutions authorizing the necessary transfer of funds, and amending the budget schedules, the approval of which is hereby recommended.

Respectfully,
WM. A. PRENDERGAST, Comptroller.
The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of Section 237 of the Greater New York Charter, hereby approves the transfer of funds appropriated to the Police Department for 1914, as follows:

FROM	
1612 Supplies—Office Supplies.....	\$400 00
1627 Contract or Open Order Service, Transportation, Shoeing and Boarding Horses, Including Veterinary Service.....	1,000 00
1632 Contract or Open Order Service, Communication, General Plant Service	300 00
	\$1,700 00
TO	
1614 Supplies, Laundry, Cleaning and Disinfecting Supplies.....	\$450 00
1616 General Plant Supplies.....	200 00
	\$650 00
Contract or Open Order Service.	
1629 Transportation, Carfare.....	700 00
1631 Communication, Telegraph, Cable and Messenger Service.....	350 00
	\$1,700 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the schedules, as revised, for the Police Department for the year 1914, as follows:

POLICE DEPARTMENT.*Supplies.*

1612 Office Supplies	\$23,950 00
1614 Laundry, Cleaning and Disinfecting Supplies.....	6,450 00
1616 General Plant Supplies.....	2,400 00

Contract or Open Order Service.

Transportation—	
1627 Shoeing and Boarding Horses, Including Veterinary Service.....	87,000 00
1629 Carfare	7,200 00
Communication—	
1631 Telegraph, Cable and Messenger Service.....	2,350 00
1632 General Plant Service.....	11,900 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Fire Department; Police Department—Transfer of Appropriation and Modification of Schedules (Cal. No. 40).

The Secretary presented a communication dated November 9, 1914, from the Fire Commissioner, requesting a transfer of \$310 from within the appropriation for said Department for 1914, to accounts within the appropriation for the Police Department for 1914; and the following report of the Comptroller recommending approval thereof and modification of schedules:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 16, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—In a communication dated November 9, 1914, the Fire Department requested the transfer of \$310 from Account No. 1699, Purchase of Equipment, Fire Fighting, Extinguishing Fires (Fire Department), to Account No. 1621, Purchase of Equipment, Motor Vehicle and Equipment (Police Department).

It appears that an automobile under the jurisdiction of the Police Department was overhauled by the Fire Department at the repair shop located at 56th street.

All new parts used were purchased from the Detroit Cadillac Motor Car Company at a cost of \$310. On presentation of the voucher for this bill by the Detroit Cadillac Motor Car Company, payment was refused, and the voucher was returned by the Department of Finance to the Fire Department for the reason that this was a proper charge against the Police Department. In order that the charge may be recorded on the books of the Police Department, the transfer of \$310 referred to is requested.

As soon as the transfer is approved, a new voucher will be presented by the Police Department and paid.

The Commissioner of the Fire Department has given his consent to the proposed transfer being made.

The adoption of the attached resolutions approving the proposed transfer and schedules, as revised, is therefore recommended. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of Section 237 of the Greater New York Charter, hereby approves the transfer of funds appropriated to the Fire Department for the year 1914, as follows:

FROM	
FIRE DEPARTMENT.	
<i>Purchase of Equipment, Fire Fighting.</i>	
1699 Extinguishing Fires	\$310 00
TO	
POLICE DEPARTMENT.	
<i>Purchase of Equipment.</i>	
1621 Motor Vehicles and Equipment	\$310 00
Which was adopted by the following vote:	
Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.	
The following resolution was offered:	
Resolved, That the Board of Estimate and Apportionment hereby approves the schedules, as revised, for the Fire Department and Police Department, respectively, for 1914, as follows:	
FIRE DEPARTMENT.	
<i>Purchase of Equipment, Fire Fighting.</i>	
1699 Extinguishing Fires	\$15,930 00
POLICE DEPARTMENT.	
<i>Purchase of Equipment.</i>	
1621 Motor Vehicles and Equipment	\$26,321 41
Which was adopted by the following vote:	
Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.	

Department of Correction—Transfer of Appropriation and Modification of Schedules (Cal. No. 41).

The Secretary presented communications dated October 30 and November 7, 1914, respectively, from the Commissioner of Correction requesting a transfer within the appropriation for said department for 1914, and the following report of the Comptroller recommending approval thereof and modification of schedules:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 13, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—In two communications dated October 20 and November 7, 1914, respectively, the Department of Correction requested the transfer of funds within the appropriations made to that department for 1914. The increase and decrease in the accounts affected by the proposed transfer are stated as follows:

FROM	
Supplies.	
2651 Fuel Supplies	\$500 00
Contract or Open Order Service, Transportation.	
2671 Shoeing and Boarding Horses, Including Veterinary Services	110 00
	\$610 00
TO	
Supplies.	
2657 Botanical and Agricultural Supplies	\$500 00
Purchase of Equipment.	
2662 Motorless Vehicles and Equipment	10 00
Fixed Charges and Contributions.	
2678 Transportation of and Donations to Insane Criminals	100 00
	\$610 00

Relative to the request for a transfer of \$500 from Account No. 2651, Supplies, Fuel Supplies, to Account No. 2657, Supplies, Botanical and Agricultural Supplies, your board on November 6, 1914, approved a transfer of \$550 from Account No. 2657 to Account No. 2651. This, however, was unnecessary, as the coal it was intended to purchase therewith had already been provided for in the annual contract for coal and a transfer of funds to the extent of \$50 was all that was actually needed. In order therefore to retain but \$50 of the original transfer of \$550 in Account No. 2651, it becomes necessary to reverse the action of November 6, 1914, by the transfer of \$500 now requested. The present available balance in Account No. 2662, Purchase of Equipment, Motorless Vehicles and Equipment, is only 13 cents, and the

proposed transfer of \$10 is required to meet the immediate needs of the department for the purchase of harness straps and other minor equipment.

Account No. 2678, Fixed Charges and Contributions, Transportation of and Donations to Insane Criminals, shows an available balance of \$30.14. This sum will be insufficient to meet the anticipated transportation expenses of persons now confined in the various institutions in the department whom it may be necessary to transport to such establishments as the Matteawan Insane Asylum, etc.

It is expected that the transfer requested will provide not only for the expenses referred to, but at the same time will leave in these accounts an available balance for unknown contingencies for the remainder of the year. Sufficient balances remain in Accounts No. 2651 and 2671, respectively, to admit of the proposed transfer. The adoption of the attached resolutions, approving the said transfer and schedules, as revised, is therefore recommended. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of Section 237 of the Greater New York Charter, hereby approves the transfer of funds appropriated to the Department of Correction for the year 1914, as follows:

FROM		
Supplies.		
2651 Fuel Supplies	\$500 00	
Contract or Open Order Service, Transportation.		
2671 Shoeing and Boarding Horses, including Veterinary Services.....	110 00	
	\$610 00	
TO		
Supplies.		
2657 Botanical and Agricultural Supplies.....	\$500 00	
Purchase of Equipment.		
2662 Motorless Vehicles and Equipment	10 00	
Fixed Charges and Contributions.		
2678 Transportation of and Donations to Insane Criminals.....	100 00	
	\$610 00	

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the following schedules, as revised, for the Department of Correction for the year 1914:

Supplies.		
2651 Fuel Supplies	\$100,250 00	
2657 Botanical and Agricultural Supplies	3,084 00	
Purchase of Equipment.		
2662 Motorless Vehicles and Equipment	888 00	
Contract or Open Order Service, Transportation.		
2671 Shoeing and Boarding Horses, including Veterinary Services.....	3,425 00	
Fixed Charges and Contributions.		
2678 Transportation of and Donations to Insane Criminals.....	1,000 00	

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Health—Transfer of Appropriation and Modification of Schedules (Cal. No. 42).

The Secretary presented a communication dated November 6, 1914, from the Board of Health transmitting resolution adopted by said Board on October 27, 1914, requesting a transfer within the appropriation for the Department of Health for 1914, and the following report of the Comptroller recommending approval thereof and modification of schedules:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 16, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—On November 6, 1914, the Board of Health requested modification of the schedules in the accounts for supplies, equipment, material, contract or open order service, and contingencies, involving a transfer of funds in the accounts referred to amounting to \$23,260 for the Department of Health for 1914.

On account of the incorrect methods adopted in setting up the estimates for the 1914 budget appropriations for the Department of Health, Mr. Henry Schickling, a Clerk of that Department who prepared the supply budget estimates of the Department of Health, states that many needs were overlooked and the changes now required to be made in the accounts referred to are necessary to adjust the discrepancies, due to faulty calculations, arising out of lack of knowledge of the needs of the Department. Schedule A herewith shows certain accounts of the Department of Health in which there were unencumbered balances on October 31, 1914.

Schedule B herewith shows the status of certain accounts of the Department of Health on October 31, 1914, and the transfers by which it is proposed to augment them.

In view of the foregoing, the adoption of the transfers set forth in the accompanying resolutions and the corresponding modifications of the schedules pertaining thereto is hereby recommended.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

SCHEDULE A.

Showing Certain Accounts of the Department of Health in Which There Were Unencumbered Balances on October 31, 1914.

Account No.	Budget Appropriations as Modified May 1, 1914, and Oct. 9, 1914.	Contract Reserve.	Open Market Orders.	Unencumbered Balance.
1853 Supplies, Food—				
Promoting Public Health:				
Child Hygiene	\$5,200 00	\$4,087 83	\$925 13	\$187 04
Hospital Service:				
Willard Parker and Reception	72,250 00	65,855 11	1,269 74	5,125 15
Riverside	105,100 00	103,088 55	1,078 75	932 70
Kingston Avenue	48,000 00	44,531 59	330 79	3,137 62
Tuberculosis Sanatorium, Otisville, N. Y.	97,123 46	94,399 95	1,309 07	1,414 44
1854 Supplies, Forage and Veterinary—				
Hospital Service:				
Tuberculosis Sanatorium, Otisville, N. Y.	13,480 00	12,822 10	9 00	648 90
1855 Supplies, Fuel—				
Promoting Public Health:				
Child Hygiene	1,200 00	505 52	276 40	418 08
Sanitary Inspection	100 00		59 15	40 85
Hospital Service:				
Willard Parker and Reception	18,001 10	15,823 50	221 22	1,956 38
Riverside	35,000 00	26,513 02	1,538 11	6,948 87
Kingston Avenue	30,000 00	21,483 00	1,042 12	7,474 88
1856 Supplies, Office—				
Promoting Public Health:				
Child Hygiene	150 00		41 37	108 63
Infectious Diseases	300 00		86 77	213 23
Food Inspection	250 00	42 00	100 02	107 98

Account No.	Budget Appropriations as Modified May 1, 1914, and Oct. 9, 1914.	Contract Reserve.	Open Market Orders.	Unencumbered Balance.
1857 Supplies, Medical and Surgical—				
Promoting Public Health:				
Infants' Milk Stations	600 00	453 15	7 96	138 89
Hospital Service:				
Willard Parker and Reception	2,500 00	1,104 75	244 70	1,150 55
Riverside	3,600 00	2,212 30	162 19	1,225 51
Tuberculosis Sanatorium, Otisville, N. Y.	5,000 00	3,420 90	70 72	1,508 38
1858 Supplies, Laundry, Cleaning and Disinfecting—				
Promoting Public Health:				
Child Hygiene	500 00	181 44	69 88	248 68
Infectious Diseases	6,000 00	2,623 09	826 04	2,550 87
Hospital Service:				
Willard Parker and Reception	2,000 00	931 10	150 80	918 10
Riverside	3,500 00	2,289 15	426 12	784 73
Tuberculosis Sanatorium, Otisville	2,500 00	1,228 86	114 69	1,156 45
1860 Supplies, Botanical and Agricultural—				
Hospital Service:				
Tuberculosis Sanatorium, Otisville	1,200 00		1,088 74	111 26
1861 Supplies, Motor Vehicle—				
Promoting Public Health:				
Infectious Diseases	1,450 00		679 36	770 64
1862 Supplies, General Plant—				
Promoting Public Health:				
Sanitary Inspection	1,032 10		522 86	509 24
1864 Equipment, Household—				
Promoting Public Health:				
Infants' Milk Stations	2,500 00		1,229 07	1,270 93
1865 Equipment, Medical and Surgical—				
Promoting Public Health:				
Child Hygiene	2,600 00	49 40	1,153 18	1,397 42
1867 Equipment, Motorless Vehicles—				
Promoting Public Health:				
Sanitary Inspection	30 00			30 00
1868 Equipment, Motor Vehicles—				
Promoting Public Health:				
Infectious Diseases	11,685 00	6,600 00	877 23	4,207 77
1869 Equipment, Wearing Apparel—				
Promoting Public Health:				
Sanitary Inspection	320 00		207 48	112 52
1870 Equipment, General Plant—				
Promoting Public Health:				
Sanitary Inspection	300 00		31 96	268 04
Laboratory Service:				
Chemical	750 00	43 06	200 38	506 56
1871 Materials, Building—				
Promoting Public Health:				
Infectious Diseases	665 00		231 03	433 97
Sanitary Inspection	50 00		9 00	41 00
Hospital Service:				
Tuberculosis Sanatorium, Otisville	9,007 50	2,014 27	4,650 16	2,343 07
1872 Materials, General Plant—				
Hospital Service:				
Kingston Avenue	1,375 00		492 38	882 62
Contract or Open Order Service.				
1873 General Repairs—				
Promoting Public Health:				
Infectious Diseases	7,340 00		5,501 17	1,838 83
Food Inspection	100 00		26 55	73 45
1878 Storage of Motor Vehicles—				
Promoting Public Health:				
Infectious Diseases	25 00			25 00
1880 Hire of Boats—				
Promoting Public Health:				
Sanitary Inspection	100 00		20 00	80 00
Food Inspection	75 00			75 00
1881 Expressage and Deliveries—				
Promoting Public Health:				
Infants' Milk Stations	135 00		65 00	70 00
Infectious Diseases	155 00		72 85	82 15
1882 Telephone Service—				
Promoting Public Health:				
Child Hygiene	500 00		481 20	18 80
Food Inspection	630 00		484 95	145 05
1884 General Plant Service—				
Administration, General	50,540 00	50,000 00	216 47	323 53
Hospital Service:				
Riverside	250 00		30 00	220 00
1885 Contingencies—				
Vital Statistics	450 00		43 04	406 96
Promoting Public Health:				
Infants' Milk Stations	50 00		6 75	43 25
Infectious Diseases	210 00		116 24	93 76
Sanitary Inspection	50 00		20 40	29 60
Grand totals	\$545,929 16	\$462,303 64	\$28,818 19	\$54,807 33

SCHEDULE B.

Showing the Status of Certain Accounts of the Department of Health on October 31, 1914, and the Transfers by Which It Is Proposed to Augment Them.

1854 Supplies, Forage and Veterinary—	
Promoting Public Health:	
Infectious Diseases—	
Budget Appropriation, as Modified.....	\$6,400 00
Expenditures to October 31, 1914:	
Contract Reserve	\$5,288 35
Open Market Order Reserve.....	851 36
	6,139 71
Balance	\$260 29
Proposed Cash Transfer	500 00
1855 Supplies, Fuel—	
Hospital Service:	
Tuberculosis Sanatorium, Otisville—	
Budget Appropriation, as Modified.....	\$17,800 00
Expenditures to October 31, 1914:	
Contract Reserve	\$12,358 50

Open Market Order Reserve.....	5,169 93		17,528 43	Infectious Diseases—			
Balance			\$271 67	Budget Appropriated as Modified.....		\$3,200 00	
Proposed Cash Transfer.....			100 00	Expenditures to October 31, 1914:			
				Contract Reserve.....	\$2,044 81		
1856 Supplies, Office—				Open Market Order Reserve.....	1,340 30		3,385 11
Administration, General:							
Budget Appropriation, as Modified.....	\$40,342 00			Overdraft		\$185 11	
Expenditures to October 31, 1914:				Proposed Cash Transfer.....		500 00	
Open Market Order Reserve	37,878 71						
Overdraft	\$2,463 29			Food Inspection—			
Proposed Cash Transfer	3,000 00			Budget Appropriation as Modified.....		\$775 00	
				Expenditures to October 31, 1914:			
Promoting Public Health:				Contract Reserve.....	\$598 75		
Sanitary Inspection—				Open Market Order Reserve.....	216 20		814 95
Budget Appropriation, as Modified.....	\$150 00						
Expenditures to October 31, 1914:				Overdraft		\$39 95	
Open Market Order Reserve.....	160 93			Proposed Cash Transfer.....		350 00	
Overdraft	\$10 93						
Proposed Cash Transfer.....	150 00			Laboratory Service:			
				Drug Laboratory—			
Hospital Service:				Budget Appropriation as Modified.....		\$200 00	
Tuberculosis Sanatorium, Otisville—				Expenditures to October 31, 1914:			
Budget Appropriation, as Modified.....	\$150 00			Contract Reserve.....	\$66 92		
Expenditures to October 31, 1914:				Open Market Order Reserve.....	167 39		234 31
Open Market Order Reserve.....	162 52						
Overdraft	\$12 52			Overdraft		\$34 31	
Proposed Cash Transfer.....	100 00			Proposed Cash Transfer.....		200 00	
Vital Statistics—				Hospital Service:			
Budget Appropriation, as Modified.....	\$175 00			Willard Parker and Reception—			
Expenditures to October 31, 1914:				Budget Appropriation as Modified.....		\$600 00	
Open Market Order Reserve.....	165 78			Expenditures to October 31, 1914:			
Balance	\$9 22			Contract Reserve.....	\$40 05		
Proposed Cash Transfer.....	25 00			Open Market Order Reserve.....	469 96		510 01
1857 Supplies, Medical and Surgical—				Balance		\$89 99	
Promoting Public Health:				Proposed Cash Transfer.....		500 00	
Child Hygiene—							
Budget Appropriation, as Modified.....	\$3,500 00			Riverside—			
Expenditures to October 31, 1914:				Budget Appropriation as Modified.....		\$1,600 00	
Contract Reserve	\$2,214 27			Expenditures to October 31, 1914:			
Open Market Order Reserve.....	1,385 06			Contract Reserve.....	\$421 85		
			3,599 33	Open Market Order Reserve.....	1,234 15		1,656 00
Overdraft	\$99 33						
Proposed Cash Transfer.....	200 00			Overdraft		\$56 00	
				Proposed Cash Transfer.....		500 00	
Food Inspection—							
Budget Appropriation, as Modified.....	\$140 00			Tuberculosis Sanatorium, Otisville—			
Expenditures to October 31, 1914:				Budget Appropriation as Modified.....		\$4,000 00	
Contract Reserve	\$84 45			Expenditures to October 31, 1914:			
Open Market Order Reserve.....	52 95			Contract Reserve.....	\$591 59		
			137 40	Open Market Order Reserve.....	3,390 17		3,981 76
Balance	\$2 60						
Proposed Cash Transfer.....	100 00			Balance		\$18 24	
				Proposed Cash Transfer.....		1,000 00	
Chemical Laboratory—							
Budget Appropriation, as Modified.....	\$325 00			1863 Equipment, Office—			
Expenditures to October 31, 1914:				Vital Statistics—			
Contract Reserve	\$174 32			Budget Appropriation as Modified.....		\$825 00	
Open Market Order Reserve.....	132 53			Expenditures to October 31, 1914:			
			306 85	Open Market Order Reserve.....		818 33	
Balance	\$18 15						
Proposed Cash Transfer.....	25 00			Balance		\$6 67	
				Proposed Cash Transfer.....		75 00	
Drug Laboratory—							
Budget Appropriation, as Modified.....	\$36,500 00			Sanitary Inspection—			
Expenditures to October 31, 1914:				Budget Appropriation as Modified.....		\$1,350 00	
Contract Reserve	\$33,225 74			Expenditures to October 31, 1914:			
Open Market Order Reserve.....	3,335 05			Open Market Order Reserve.....		1,348 67	
			36,560 79				
Overdraft	\$60 79			Balance		\$1 33	
Proposed Cash Transfer.....	1,500 00			Proposed Cash Transfer.....		100 00	
1861 Supplies, Motor Vehicle—				Food Inspection—			
Promoting Public Health:				Budget Appropriation as Modified.....		\$650 00	
Sanitary Inspection—				Expenditures to October 31, 1914:			
Budget Appropriation, as Modified.....	\$1,850 00			Open Market Order Reserve.....		648 50	
Expenditures to October 31, 1914:							
Open Market Order Reserve.....	1,745 85			Balance		\$1 50	
Balance	\$104 15			Proposed Cash Transfer.....		100 00	
Proposed Cash Transfer.....	150 00						
				Riverside Hospital—			
1862 Supplies, General Plant—				Budget Appropriation as Modified.....		\$10 00	
Administration:				Expenditures to October 31, 1914:			
Care of Buildings—				Open Market Order Reserve.....		16 86	
Budget Appropriation, as Modified.....	\$543 00						
Expenditures to October 31, 1914:				Overdraft		\$6 80	
Open Market Order Reserve.....	467 23			Proposed Cash Transfer.....		25 00	
Balance	\$75 77						
Proposed Cash Transfer.....	200 00			Tuberculosis Sanatorium, Otisville—			
				Budget Appropriation as Modified.....		\$400 00	
Promoting Public Health:				Expenditures to October 31, 1914:			
Child Hygiene—				Open Market Order Reserve.....		416 50	
Budget Appropriation, as Modified.....	\$300 00						
Expenditures to October 31, 1914:				Overdraft		\$16 50	
Contract Reserve	\$8 14			Proposed Cash Transfer.....		100 00	
Open Market Order Reserve.....	244 00						
			252 14	1864 Household Equipment—			
Balance	\$47 86			Promoting Public Health:			
Proposed Cash Transfer.....	200 00			Child Hygiene—			
				Budget Appropriation as Modified.....		\$2,400 00	
Infants' Milk Station—				Expenditures to October 31, 1914:			
Budget Appropriation as Modified.....	\$3,100 00			Contract Reserve.....	\$31 86		
Expenditures to October 31, 1914:				Open Market Order Reserve.....	2,582 37		2,614 23
Contract Reserve	\$835 00						
Open Market Order Reserve.....	2,014 77			Overdraft		\$214 23	
			2,849 77	Proposed Cash Transfer.....		300 00	
Balance	\$250 23						
Proposed Cash Transfer.....	140 00			Infectious Diseases—			
				Budget Appropriation as Modified.....		\$1,500 00	
				Expenditures to October 31, 1914:			
				Open Market Order Reserve.....		1,227 36	
				Balance		\$272 64	
				Proposed Cash Transfer		500 00	
				1865 Medical and Surgical Equipment—			
				Hospital Service:			
				Willard Parker and Reception—			
				Budget Appropriation as Modified		\$1,000 00	

Expenditures to October 31, 1914:			Expenditures to October 31, 1914:		
Open Market Order Reserve.....	687 40		Open Market Order Reserve.....	55 95	
Balance.....	\$312 60		Balance.....	\$19 05	
Proposed Cash Transfer.....	1,000 00		Proposed Cash Transfer.....	150 00	
Tuberculosis Sanatorium, Otisville—			Child Hygiene—		
Budget Appropriation as Modified.....	\$1,000 00		Budget Appropriation as Modified.....	\$2,625 00	
Expenditures to October 31, 1914:			Expenditures to October 31, 1914:		
Open Market Order Reserve.....	231 84		Open Market Order Reserve.....	2,646 57	
Balance.....	\$768 16		Overdraft.....	\$21 57	
Proposed Cash Transfer.....	300 00		Proposed Cash Transfer.....	200 00	
1869 Wearing Apparel—			Laboratory Service:		
Promoting Public Health:			Chemical—		
Child Hygiene—			Budget Appropriation as Modified.....	\$100 00	
Budget Appropriation as Modified.....	\$1,300 00		Expenditures to October 31, 1914:		
Expenditures to October 31, 1914:			Open Market Order Reserve.....	62 70	
Contract Reserve.....	\$195 68		Balance.....	\$37 30	
Open Market Order Reserve.....	1,119 82		Proposed Cash Transfer.....	100 00	
	1,315 50		Hospital Service:		
Overdraft.....	\$15 50		Kingston Avenue—		
Proposed Cash Transfer.....	100 00		Budget Appropriation as Modified.....	\$2,100 00	
Infectious Diseases—			Expenditures to October 31, 1914:	1,200 56	
Budget Appropriation as Modified.....	\$350 00		Balance.....	\$899 44	
Expenditures to October 31, 1914:			Proposed Cash Transfer.....	1,000 00	
Contract Reserve.....	\$140 32		Tuberculosis Sanatorium, Otisville—		
Open Market Order Reserve.....	285 11		Budget Appropriation as Modified.....	\$150 00	
	425 43		Expenditures to October 31, 1914:	117 48	
Overdraft.....	\$75 43		Balance.....	\$32 52	
Proposed Cash Transfer.....	100 00		Proposed Cash Transfer.....	200 00	
Hospital Service:			1877 Carfare—		
Tuberculosis Sanatorium, Otisville—			Child Hygiene—		
Budget Appropriation as Modified.....	\$400 00		Budget Appropriation as Modified.....	\$2,350 00	
Expenditures to October 31, 1917:			Expenditures to October 31, 1914:		
Contract Reserve.....	\$31 03		Open Market Order Reserve.....	2,114 52	
Open Market Order Reserve.....	422 79		Balance.....	\$235 48	
	453 82		Proposed Cash Transfer.....	400 00	
Overdraft.....	\$53 82		Infants' Milk Stations—		
Proposed Cash Transfer.....	100 00		Budget Appropriation as Modified.....	\$200 00	
1870 General Plant Equipment—			Expenditures to October 31, 1914:		
Promoting Public Health:			Open Market Order Reserve.....	155 17	
Child Hygiene—			Balance.....	\$44 83	
Budget Appropriation as Modified.....	\$600 00		Proposed Cash Transfer.....	25 00	
Expenditures to October 31, 1914:			Infectious Diseases—		
Contract Reserve.....	\$354 00		Budget Appropriation as Modified.....	\$8,900 00	
Open Market Order Reserve.....	228 22		Expenditures to October 31, 1914:		
	582 22		Open Market Order Reserve.....	8,556 91	
Balance.....	\$17 78		Balance.....	\$343 09	
Proposed Cash Transfer.....	500 00		Proposed Cash Transfer.....	1,000 00	
Hospital Service:			Food Inspection—		
Willard Parker and Reception—			Budget Appropriation as Modified.....	\$23,620 00	
Budget Appropriation as Modified.....	\$1,100 00		Expenditures to October 31, 1914:		
Expenditures to October 31, 1914:			Open Market Order Reserve.....	20,848 43	
Open Market Order Reserve.....	1,368 92		Balance.....	\$2,772 57	
Overdraft.....	\$268 92		Proposed Cash Transfer.....	1,600 00	
Proposed Cash Transfer.....	1,000 00		Laboratory Service:		
Tuberculosis Sanatorium, Otisville—			Chemical—		
Budget Appropriation as Modified.....	\$5,000 00		Budget Appropriation as Modified.....	\$100 00	
Expenditures to October 31, 1914:			Expenditures to October 31, 1914:		
Open Market Order Reserve.....	5,670 71		Open Market Order Reserve.....	123 76	
Overdraft.....	\$670 71		Overdraft.....	\$23 76	
Proposed Cash Transfer.....	800 00		Proposed Cash Transfer.....	25 00	
1872 Equipment, General Plant—			1879 Shoeing and Boarding Horses—		
Vital Statistics—			Promoting Public Health:		
Budget Appropriation as Modified.....	\$500 00		Infectious Diseases—		
Expenditures to October 31, 1914:			Budget Appropriation as Modified.....	\$2,675 00	
Open Market Order Reserve.....	\$31 29		Expenditures to October 31, 1914:		
Overdraft.....	\$31 29		Open Market Order Reserve.....	2,368 31	
Proposed Cash Transfer.....	200 00		Balance.....	\$306 69	
Laboratory Service:			Proposed Cash Transfer.....	200 00	
Drugs—			Hospital Service:		
Budget Appropriation as Modified.....	\$25 00		Riverside—		
Expenditures to October 31, 1914.....	7 07		Budget Appropriation as Modified.....	\$150 00	
Balance.....	\$17 93		Expenditures to October 31, 1914:		
Proposed Cash Transfer.....	50 00		Open Market Order Reserve.....	152 00	
Hospital Service:			Overdraft.....	\$2 00	
Tuberculosis Sanatorium, Otisville—			Proposed Cash Transfer.....	30 00	
Budget Appropriation as Modified.....	\$1,600 00		1881 Expressage and Deliveries—		
Expenditures to October 31, 1914:			Administration, General:		
Open Market Order Reserve.....	1,598 33		Budget Appropriation as Modified.....	\$540 00	
Balance.....	\$1 67		Expenditure to October 31, 1914:		
Proposed Cash Transfer.....	500 00		Open Market Order Reserve.....	770 86	
Contract or Open Order Service.			Overdraft.....	\$230 86	
1873 General Repairs—			Proposed Cash Transfer.....	400 00	
General Administration:			Hospital Service:		
Budget Appropriation as Modified.....	\$235 00		Tuberculosis Sanatorium, Otisville—		
Expenditures to October 31, 1914:			Budget Appropriation as Modified.....	\$1,400 00	
Open Market Order Reserve.....	208 22		Expenditures to October 31, 1914:		
Balance.....	\$26 78		Open Market Order Reserve.....	1,263 48	
Proposed Cash Transfer.....	50 00		Balance.....	\$136 52	
Care of Buildings and Grounds—			Proposed Cash Transfer.....	300 00	
Budget Appropriation as Modified.....	\$5,000 00		1882 Telephone Service—		
Expenditures to October 31, 1914:			Promoting Public Health:		
Contract Reserve.....	\$2,139 00		Infectious Diseases—		
Open Market Order Reserve.....	2,391 90		Budget Appropriation as Modified.....	\$650 00	
	4,530 90		Expenditures to October 31, 1914:		
Balance.....	\$469 10		Open Market Order Reserve.....	689 05	
Proposed Cash Transfer.....	900 00		Overdraft.....	\$39 05	
Vital Statistics—			Proposed Cash Transfer.....	200 00	
Budget Appropriation as Modified.....	\$75 00				

1883	Telegraph, Cable and Messenger Service— Hospital Service: Willard Parker and Reception— Budget Appropriation as Modified \$140 00 Expenditures to October 31, 1914: Open Market Order Reserve 134 35 Balance \$5 65 Proposed Cash Transfer 25 00 Riverside Hospital— Budget Appropriation as Modified \$150 00 Expenditures to October 31, 1914: Open Market Order Reserve 171 75 Overdraft \$21 75 Proposed Cash Transfer 50 00 Kingston Avenue Hospital— Budget Appropriation as Modified \$150 00 Expenditures to October 31, 1914: Open Market Order Reserve 142 06 Balance \$7 94 Proposed Cash Transfer 25 00	1857	Supplies, Medical and Surgical— Promoting Public Health: Infants' Milk Stations 100 00 Hospital Service: Willard Parker and Reception 500 00 Riverside 500 00 Tuberculosis Sanatorium, Otisville 1,000 00 1858 Supplies, Laundry, Cleaning and Disinfecting— Promoting Public Health: Child Hygiene 100 00 Infectious Diseases 1,500 00 Hospital Service: Willard Parker and Reception 515 00 Riverside 500 00 Tuberculosis Sanatorium, Otisville 700 00 1860 Supplies, Botanical and Agricultural— Hospital Service: Tuberculosis Sanatorium, Otisville 100 00 1861 Supplies, Motor Vehicle— Promoting Public Health: Infectious Diseases 500 00 1862 Supplies, General Plant— Promoting Public Health: Sanitary Inspection 125 00 1864 Equipment, Household— Promoting Public Health: Infants' Milk Stations 500 00 1865 Equipment, Medical and Surgical— Promoting Public Health: Child Hygiene 1,000 00 1867 Equipment, Motorless Vehicles— Promoting Public Health: Sanitary Inspection 30 00 1868 Equipment, Motor Vehicles— Promoting Public Health: Infectious Diseases 500 00 1869 Equipment, Wearing Apparel— Promoting Public Health: Sanitary Inspection 100 00 1870 Equipment, General Plant— Promoting Public Health: Sanitary Inspection 200 00 Laboratory Service: Chemical 150 00 1871 Materials, Building— Promoting Public Health: Infectious Diseases 200 00 Sanitary Inspection 25 00 Hospital Service: Tuberculosis Sanatorium, Otisville 1,000 00 1872 Materials, General Plant— Hospital Service: Kingston Avenue 500 00 <i>Contract or Open Order Service.</i> 1873 General Repairs— Promoting Public Health: Infectious Diseases 600 00 Food Inspection 50 00 1878 Storage of Motor Vehicles— Promoting Public Health: Infectious Diseases 25 00 1880 Hire of Boats— Promoting Public Health: Sanitary Inspection 50 00 Food Inspection 75 00 1881 Expressage and Deliveries— Promoting Public Health: Infant's Milk Station 70 00 Infectious diseases 50 00 1882 Telephone Service— Promoting Public Health: Food Inspection 75 00 1884 General Plant Service— Administration, General 300 00 Hospital Service, Riverside 200 00 1885 Contingencies— Vital Statistics 270 00 Promoting Public Health: Infectious Diseases 75 00 Sanitary Inspection 20 00 \$23,260 00
1884	General Plant Service— Care of Buildings and Grounds: Budget Appropriation as Modified \$1,850 00 Expenditures to October 31, 1914: Open Market Order Reserve 1,598 77 Balance \$251 23 Proposed Cash Transfer 25 00 Promoting Public Health: Child Hygiene— Budget Appropriation as Modified \$300 00 Expenditures to October 31, 1914: Open Market Order Reserve 267 00 Balance \$33 00 Proposed Cash Transfer 50 00 Infants' Milk Stations— Budget Appropriation as Modified \$504 00 Expenditures to October 31, 1914: Open Market Order Reserve 494 42 Balance \$9 58 Proposed Cash Transfer 100 00 Infectious Diseases— Budget Appropriation as Modified \$2,300 00 Expenditures to October 31, 1914: Open Market Order Reserve 2,469 76 Overdraft \$169 76 Proposed Cash Transfer 250 00 Sanitary Inspection— Budget Appropriation as Modified \$250 00 Expenditures to October 31, 1914: Open Market Order Reserve 204 00 Balance \$46 00 Proposed Cash Transfer 175 00	1854	Supplies, Forage and Veterinary— Promoting Public Health: Infectious Diseases \$500 00 1855 Supplies, Fuel— Hospital Service: Tuberculosis Sanatorium, Otisville 100 00 1856 Supplies, Office— Administration, General 3,000 00 Vital Statistics 25 00 Promoting Public Health: Sanitary Inspection 150 00 Hospital Service: Tuberculosis Sanatorium, Otisville 100 00 1857 Supplies, Medical and Surgical— Promoting Public Health: Child Hygiene 200 00 Food Inspection 100 00 Laboratory Service: Chemical 25 00 Drug 1,400 00 1861 Supplies, Motor Vehicle— Promoting Public Health: Sanitary Inspection 150 00 1862 Supplies, General Plant— Administration: Care of Buildings 200 00 Promoting Public Health: Child Hygiene 200 00 Infant's Milk Station 140 00 Infectious Diseases 500 00 Food Inspection 350 00 Laboratory Service: Drug 200 00 Hospital Service: Willard Parker and Reception 500 00 Riverside 500 00 Tuberculosis Sanatorium, Otisville 1,000 00 1863 Equipment, Office— Vital Statistics 75 00 Promoting Public Health: Sanitary Inspection 100 00 Food Inspection 100 00
1885	Contingencies— Promoting Public Health: Food Inspection— Budget Appropriation as Modified \$10 00 Expenditures to October 31, 1914: Open Market Order Reserve 66 20 Overdraft \$56 20 Proposed Cash Transfer 75 00 Hospital Service: Willard Parker and Reception— Budget Appropriation as Modified \$10 00 Expenditures to October 31, 1914: Open Market Order Reserve 15 25 Overdraft \$5 25 Proposed Cash Transfer 15 00	1887	Care and Treatment of Patients, Richmond— Promoting Public Health: Infectious Diseases— Budget Appropriation as Modified \$3,000 00 Expenditures to October 31, 1914: Open Market Order Reserve 3,035 00 Overdraft \$35 00 Proposed Cash Transfer 500 00
The following resolution was offered: Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of Section 237 of the Greater New York Charter, hereby approves of transfer of funds appropriated to the Department of Health for 1914, as follows:			
1853	Supplies, Food— Promoting Public Health: Child Hygiene \$100 00 Hospital Service: Willard Parker and Reception 3,000 00 Riverside 500 00 Kingston Avenue 1,705 00 Tuberculosis Sanatorium, Otisville 1,000 00	1854	Supplies, Forage and Veterinary— Hospital Service: Tuberculosis Sanatorium, Otisville 300 00
1855	Supplies, Fuel— Promoting Public Health: Child Hygiene 200 00 Sanitary Inspection 25 00 Hospital Service: Willard Parker and Reception 1,000 00 Riverside 1,000 00 Kingston Avenue 2,000 00	1856	Supplies, Office— Promoting Public Health: Child Hygiene 50 00 Infectious Diseases 100 00 Food Inspection 75 00

Hospital Service:	
Riverside	25 00
Tuberculosis Sanatorium, Otisville	100 00
1864 Equipment, Household—	
Promoting Public Health:	
Child Hygiene	300 00
Infectious Diseases	500 00
1865 Equipment, Medical and Surgical—	
Hospital Service:	
Willard Parker and Reception	1,000 00
Tuberculosis Sanatorium, Otisville	300 00
1869 Equipment, Wearing Apparel—	
Promoting Public Health:	
Child Hygiene	100 00
Infectious Diseases	100 00
Hospital Service:	
Tuberculosis Sanatorium, Otisville	100 00
1870 Equipment, General Plant—	
Promoting Public Health:	
Child Hygiene	500 00
Hospital Service:	
Willard Parker and Reception	1,000 00
Tuberculosis Sanatorium, Otisville	800 00
1872 Materials, General Plant—	
Vital Statistics	200 00
Laboratory Service:	
Drugs	50 00
Hospital Service:	
Tuberculosis Sanatorium, Otisville	500 00
<i>Contract or Open Order Service.</i>	
1873 General Repairs—	
Administration:	
General	50 00
Care of Buildings	900 00
Vital Statistics	150 00
Promoting Public Health:	
Child Hygiene	200 00
Laboratory Service:	
Chemical	100 00
Hospital Service:	
Kingston Avenue	1,000 00
Tuberculosis Sanatorium, Otisville	200 00
1877 Carfare—	
Promoting Public Health:	
Child Hygiene	400 00
Infants' Milk Stations	25 00
Infectious Diseases	1,000 00
Food Inspection	1,600 00
Laboratory Service:	
Chemical	25 00
1879 Shoeing and Boarding Horses, including Veterinary Services—	
Promoting Public Health:	
Infectious Diseases	200 00
Hospital Service:	
Riverside	30 00
1881 Expressage and Deliveries—	
Administration, General	400 00
Hospital Service:	
Tuberculosis Sanatorium, Otisville	300 00
1882 Telephone Service—	
Promoting Public Health:	
Infectious Diseases	200 00
1883 Telegraph, Cable and Messenger Service—	
Hospital Service:	
Willard Parker and Reception	25 00
Riverside	50 00
Kingston Avenue	25 00
1884 General Plant Service—	
Administration:	
Care of Buildings and Grounds	25 00
Promoting Public Health:	
Child Hygiene	50 00
Infants' Milk Stations	100 00
Infectious Diseases	250 00
Sanitary Inspection	175 00
1885 Contingencies—	
Promoting Public Health:	
Food Inspection	75 00
Hospital Service:	
Willard Parker and Reception	15 00
1887 Care and Treatment of Patients, Richmond—	
Promoting Public Health:	
Infectious Diseases	500 00
\$23,260 00	

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Health for the year 1914, as follows:

Supplies.

1853 Food Supplies—	
Promoting Public Health:	
Child Hygiene	\$5,100 00
Infectious Diseases	13,900 00
Hospital Service:	
Willard Parker and Reception	69,000 00
Riverside	104,600 00
Kingston Avenue	46,295 00
Tuberculosis Sanatorium, Otisville	96,123 46
Total Food Supplies	\$335,018 46
1854 Forage and Veterinary Supplies—	
Promoting Public Health: Infectious Diseases	\$6,900 00
Laboratory Service: Research and Vaccine	8,050 00
Hospital Service:	
Riverside	750 00
Tuberculosis Sanatorium, Otisville	13,180 00
Total Forage and Veterinary Supplies	\$28,880 00
1855 Fuel Supplies—	
Administration, Care of Buildings and Grounds	\$1,000 00
Promoting Public Health:	
Child Hygiene	1,000 00
Infants' Milk Stations	500 00
Infectious Diseases	2,400 00
Sanitary Inspection	75 00
Laboratory Service, Research and Vaccine	1,300 00
Hospital Service:	
Willard Parker and Reception	17,000 00
Riverside	30,400 00
Kingston Avenue	23,000 00

Tuberculosis Sanatorium, Otisville	17,900 00
Total Fuel Supplies	\$94,575 00

1856 Office Supplies—	
Administration:	
General	\$43,342 00
Vital Statistics	200 00
Promoting Public Health, Child Hygiene	100 00
Infectious Diseases	200 00
Sanitary Inspection	300 00
Food Inspection	175 00
Laboratory Service:	
Research and Vaccine	350 00
Chemical	100 00
Hospital Service:	
Willard Parker and Reception	25 00
Kingston Avenue	25 00
Tuberculosis Sanatorium, Otisville	250 00
Total Office Supplies	\$45,067 00

1857 Medical and Surgical Supplies, Promoting Public Health—	
Child Hygiene	\$3,700 00
Infants' Milk Stations	500 00
Infectious Diseases	8,650 00
Food Inspection	240 00
Laboratory Service—	
Research and Vaccine	8,500 00
Chemical	350 00
Drug	37,900 00
Hospital Service—	
Willard Parker and Reception	2,000 00
Riverside	3,100 00
Kingston Avenue	1,200 00
Tuberculosis Sanatorium, Otisville	4,000 00
Total Medical and Surgical Supplies	\$70,140 00

1858 Laundry, Cleaning and Disinfecting Supplies—	
Administration, Care of Buildings and Grounds	\$200 00
Promoting Public Health:	
Child Hygiene	400 00
Infants' Milk Stations	400 00
Infectious Diseases	4,500 00
Sanitary Inspection	25 00
Laboratory Service:	
Research and Vaccine	300 00
Chemical	25 00
Drug	25 00
Hospital Service:	
Willard Parker and Reception	1,485 00
Riverside	3,000 00
Kingston Avenue	3,000 00
Tuberculosis Sanatorium, Otisville	1,800 00
Total Laundry, Cleaning and Disinfecting Supplies	\$15,160 00

1860 Botanical and Agricultural Supplies—	
Hospital Service:	
Kingston Avenue	\$25 00
Tuberculosis Sanatorium, Otisville	1,100 00
Total Botanical and Agricultural Supplies	\$1,125 00

1861 Motor Vehicle Supplies—	
Administration, General	\$25 00
Promoting Public Health:	
Infectious Diseases	950 00
Sanitary Inspection	2,000 00
Total Motor Vehicle Supplies	\$2,975 00

1862 General Plant Supplies—	
Administration:	
General	\$543 00
Care of Buildings and Grounds	500 00
Promoting Public Health:	
Child Hygiene	500 00
Infants' Milk Stations	3,240 00
Infectious Diseases	3,700 00
Sanitary Inspection	875 00
Food Inspection	1,125 00
Laboratory Service:	
Research and Vaccine	9,000 00
Chemical	790 00
Drug	400 00
Hospital Service:	
Willard Parker and Reception	1,100 00
Riverside	2,100 00
Kingston Avenue	1,100 00
Tuberculosis Sanatorium, Otisville	5,000 00
Total General Plant Service	\$29,973 00

Purchase of Equipment.

1863 Office Equipment—	
Administration:	
General	\$4,870 00
Vital Statistics	900 00
Promotion of Public Health:	
Child Hygiene	1,000 00
Infants' Milk Stations	110 00
Infectious Diseases	2,050 00
Sanitary Inspection	1,450 00
Food Inspection	750 00
Laboratory Service:	
Research and Vaccine	1,000 00
Chemical	110 00
Drug	30 00
Hospital Service:	
Willard Parker and Reception	250 00
Riverside	35 00
Kingston Avenue	200 00
Tuberculosis Sanatorium, Otisville	500 00
Total Office Equipment	\$13,255 00

1864 Household Equipment—	
Promoting Public Health:	
Child Hygiene	\$2,700 00
Infants' Milk Station	2,000 00
Infectious Diseases	2,000 00
Laboratory Service, Research and Vaccine	400 00
Hospital Service:	
Willard Parker and Reception	8,000 00

Riverside	6,200 00	Infants' Milk Stations	3,246 00
Kingston Avenue	4,000 00	Infectious Diseases	6,740 00
Tuberculosis Sanatorium, Otisville	6,500 00	Sanitary Inspection	500 00
Total Household Equipment	\$31,800 00	Food Inspection	50 00
1865 Medical and Surgical Equipment—		Laboratory Service:	
Promoting Public Health:		Research and Vaccine	250 00
Child Hygiene	\$1,600 00	Chemical	125 00
Infants' Milk Stations	180 00	Drug	25 00
Infectious Diseases	2,550 00	Hospital Service:	
Laboratory Service:		Willard Parker and Reception	4,200 00
Research and Vaccine	1,000 00	Riverside	4,100 00
Chemical	10 00	Kingston Avenue	3,100 00
Drug	1,800 00	Tuberculosis Sanatorium, Otisville	350 00
Hospital Service:		Total General Repairs	\$31,921 00
Willard Parker and Reception	2,000 00		
Riverside	1,200 00	1877 Carfare—	
Kingston Avenue	500 00	Administration:	
Tuberculosis Sanatorium, Otisville	1,300 00	General	\$900 00
Total Medical and Surgical Equipment	\$12,140 00	Vital Statistics	100 00
1867 Motorless Vehicles and Equipment—		Promoting Public Health:	
Laboratory Service, Research and Vaccine	\$200 00	Child Hygiene	2,750 00
Hospital Service, Riverside	90 00	Infants' Milk Stations	225 00
Total Motorless Vehicles and Equipment	\$290 00	Infectious Diseases	9,900 00
1868 Motor Vehicles and Equipment—		Sanitary Inspection	2,320 00
Administration, General	\$25 00	Food Inspection	32,220 00
Promoting Public Health:		Laboratory Service:	
Infectious Diseases	11,185 00	Research and Vaccine	1,200 00
This appropriation is made with the condition that no automobiles are to be purchased therefrom except 2 motor-trucks and 3 auto ambulances.		Chemical	125 00
Sanitary Inspection	4,750 00	Drug	10 00
This appropriation is made with the condition that no less than 3 automobiles are to be purchased therefrom at a cost not exceeding \$550 each.		Hospital Service:	
Total Motor Vehicles and Equipment	\$15,960 00	Willard Parker and Reception	55 00
1869 Wearing Apparel—		Kingston Avenue Hospital	75 00
Promoting Public Health:		Tuberculosis Sanatorium, Otisville	3,950 00
Child Hygiene	1,400 00	Total Carfare	\$53,830 00
Infectious Diseases	450 00		
Sanitary Inspection	220 00	1878 Storage of Motor Vehicles—	
Food Inspection	50 00	Administration, General	\$34 00
Laboratory Service:		Promoting Public Health:	
Research and Vaccine	250 00	Sanitary Inspection	1,995 00
Chemical	30 00	Total Storage of Motor Vehicles	\$2,029 00
Hospital Service:			
Willard Parker and Reception	5,650 00	1879 Shoeing and Boarding Horses, Including Veterinary Service—	
Riverside	8,700 00	Promoting Public Health:	
Kingston Avenue	3,500 00	Infectious Diseases	\$2,875 00
Otisville Sanatorium, Otisville	500 00	Sanitary Inspection	450 00
Total Wearing Apparel	\$20,750 00	Hospital Service, Riverside	180 00
1870 General Plant Equipment—		Total Shoeing and Boarding Horses, Including Veterinary Service	\$3,505 00
Administration:			
General	\$35 00	1880 Hire of Boats—	
Care of Buildings and Grounds	400 00	Promoting Public Health, Sanitary Inspection	\$50 00
Promoting Public Health:		Total Hire of Boats	\$50 00
Child Hygiene	1,100 00		
Infants' Milk Stations	950 00	1881 Expressage and Deliveries—	
Infectious Diseases	2,500 00	Administration, General	\$940 00
Sanitary Inspection	100 00	Promoting Public Health:	
Food Inspection	290 00	Child Hygiene	75 00
Laboratory Service:		Infants' Milk Stations	65 00
Research and Vaccine	4,400 00	Infectious Diseases	105 00
Chemical	600 00	Sanitary Inspection	100 00
Drug	350 00	Laboratory Service:	
Hospital Service:		Research and Vaccine	800 00
Willard Parker and Reception	2,100 00	Drug	15 00
Riverside	3,800 00	Hospital Service:	
Kingston Avenue	3,800 00	Willard Parker and Reception	5 00
Tuberculosis Sanatorium, Otisville	5,800 00	Kingston Avenue	15 00
Total General Plant Materials	\$26,225 00	Tuberculosis Sanatorium, Otisville	1,700 00
Materials.		Total Expressage and Deliveries	\$3,820 00
1871 Building Materials—			
Administration, Care of Buildings and Grounds	\$150 00	1882 Telephone Service—	
Promoting Public Health:		Administration, General:	
Child Hygiene	50 00	Promoting Public Health	\$22,535 00
Infectious Diseases	465 00	Child Hygiene	500 00
Sanitary Inspection	25 00	Infants' Milk Stations	90 00
Laboratory Service:		Infectious Diseases	850 00
Research and Vaccine	500 00	Sanitary Inspection	60 00
Chemical	25 00	Food Inspection	555 00
Drug	50 00	Laboratory Service, Research and Vaccine	150 00
Hospital Service:		Hospital Service:	
Willard Parker and Reception	1,250 00	Kingston Avenue	10 00
Riverside	2,750 00	Tuberculosis Sanatorium, Otisville	400 00
Kingston Avenue	1,625 00	Total Telephone Service	\$25,150 00
Tuberculosis Sanatorium, Otisville	8,000 00		
Total Building Materials	\$14,890 00	1883 Telegraph, Cable and Messenger Service—	
1872 General Plant Materials—		Administration, General	\$100 00
Administration, Care of Buildings and Grounds	\$100 00	Hospital Service:	
Vital Statistics	700 00	Willard Parker and Reception	165 00
Promoting Public Health:		Riverside	200 00
Child Hygiene	25 00	Kingston Avenue	175 00
Infectious Diseases	85 00	Tuberculosis Sanatorium, Otisville	50 00
Laboratory Service:		Total Telegraph, Cable and Messenger Service	\$690 00
Chemical	50 00		
Drug	75 00	Contract or Open Order Service.	
Hospital Service:		1884 General Plant Service—	
Willard Parker and Reception	2,500 00	Administration, General	\$50,240 00
Riverside	2,600 00	Care of Buildings and Grounds	1,875 00
Kingston Avenue	875 00	Promoting Public Health:	
Tuberculosis Sanatorium, Otisville	2,100 00	Child Hygiene	350 00
Total General Plant Materials	\$9,110 00	Infants' Milk Stations	604 00
Contract or Open Order Service.		Infectious Diseases	2,550 00
1873 General Repairs—		Sanitary Inspection	425 00
Administration:		Laboratory Service:	
General	\$285 00	Research and Vaccine	500 00
Care of Buildings and Grounds	5,900 00	Hospital Service:	
Vital Statistics	225 00	Riverside	50 00
Promoting Public Health:		Tuberculosis Sanatorium, Otisville	12 00
Child Hygiene	2,825 00	Total Contract or Open Order Service	\$56,606 00
		1885 Contingencies—	
		Administration:	
		General	\$80 00
		Vital Statistics	180 00
		Promoting Public Health:	
		Child Hygiene	100 00
		Infants' Milk Stations	50 00
		Infectious Diseases	135 00
		Sanitary Inspection	30 00
		Food Inspection	85 00

Hospital Service:	
Willard Parker and Reception	25 00
Tuberculosis Sanatorium, Otisville	50 00
Total Contingencies	\$735 00

<i>Fixed Charges and Contributions</i>	
1886 County and School Tax for Tuberculosis—Sanatorium, Otisville	\$3,964 54
1887 Care and Treatment of Patients, Richmond	3,500 00

Total fixed charges and contributions	\$7,464 54
Which was adopted by the following vote:	
Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.	

Department of Water Supply, Gas and Electricity—Transfer of Appropriation and Modification of Schedules (Cal. No. 43).

The Secretary presented two communications dated October 26 and 30, 1914, respectively, from the Commissioner of Water Supply, Gas and Electricity, requesting a transfer within the appropriation for said Department for 1914; and the following report of the Comptroller recommending approval thereof and modification of schedules:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 16, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—In two communications dated October 26 and October 30, 1914, respectively, the Department of Water Supply, Gas and Electricity requested the transfer of funds within the appropriations made to that department for 1914.

The increases and decreases in the accounts affected are as follows:

FROM	
Contract or Open Order Service, Transportation, Carfare.	
2290TW Water Revenue Collection—Tax Levy Allowance.....	\$250 00
Purchase of Equipment, Wearing Apparel.	
2235TW Water Supply—Tax Levy Allowance.....	\$50 00
Total.....	\$300 00

TO	
Materials—General Plant Materials.	
2241TW Water Revenue Collection—Tax Levy Allowance.....	\$100 00
Contract or Open Order Service, Motor Vehicle Repairs.	
2302TW Water Revenue Collection, Tax Levy Allowance.....	150 00
Contingencies.	
2305TW Water Supply, Tax Levy Allowance.....	50 00
Total.....	\$300 00

The transfer of \$150 to Account No. 2302TW, is to meet the expenditures proposed for repairs to the automobiles now assigned to the Bureau of Water Register, Borough of Manhattan, and the transfer of \$100 to Account No. 2241TW is to provide materials for repairing the patrol boat "Croton." The funds originally appropriated in the two accounts referred to are now exhausted.

The transfer of \$50 from Account No. 2235 to Account No. 2305TW referred to, is to meet existing obligations of emergency character.

Investigation shows that all of the individual transfers, as requested, are essential to the proper and efficient administration of the Department of Water Supply, Gas and Electricity. The adoption of the attached resolutions approving the transfer of funds and the schedules, as revised, is therefore recommended.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of Section 237 of the Greater New York Charter, hereby approves the transfer of funds for the Department of Water Supply, Gas and Electricity, for the year 1914, as follows:

FROM	
Contract or Open Order Service, Transportation, Carfare.	
2290TW Water Revenue Collection—Tax Levy Allowance.....	\$250 00
Purchase of Equipment, Wearing Apparel.	
2235TW Water Supply—Tax Levy Allowance.....	50 00
Total.....	\$300 00

TO	
Materials, General Plant Materials.	
2241TW Water Revenue Collection—Tax Levy Allowance.....	\$100 00
Contract or Open Order Service, Motor Vehicle Repairs.	
2302TW Water Revenue Collection—Tax Levy Allowance.....	150 00
Contingencies.	
2305TW Water Supply—Tax Levy Allowance.....	50 00
Total.....	\$300 00

Which was adopted by the following vote:
Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Water Supply, Gas and Electricity for the year 1914, as follows:

Purchase of Equipment, Wearing Apparel.	
2235TW Water Supply.....	\$3,375 00
Tax Levy Allowance.....	\$1,745 00
Water Revenue Allowance.....	\$1,630 00

Materials, General Plant Materials.	
2241TW Water Revenue Collection.....	\$670 00
Tax Levy Allowance.....	\$570 00
Water Revenue Allowance.....	\$100 00

Contract or Open Order Service, Transportation, Carfare.	
2290TW Water Revenue Collection.....	\$7,850 00
Tax Levy Allowance.....	\$4,850 00
Water Revenue Allowance.....	\$3,000 00

Contract or Open Order Service, Motor Vehicle Repairs.	
2302TW Water Revenue Collection.....	\$500 00
Tax Levy Allowance.....	\$400 00
Water Revenue Allowance.....	\$100 00

Contingencies.	
2305TW Water Supply.....	\$560 00
Tax Levy Allowance.....	\$250 00
Water Revenue Allowance.....	\$310 00

Which was adopted by the following vote:
Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Public Charities—Transfer of Appropriation and Modification of Schedules (Cal. No. 44).

The Secretary presented a communication dated October 21, 1914, from the Commissioner of Public Charities, requesting a transfer within the appropriation for said

Department for 1914; and the following report of the Comptroller recommending approval thereof and modification of schedules:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 7, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—In a communication dated October 21, 1914, the Department of Public Charities requested modification of the schedules supporting the 1914 budget appropriations made to that department for Personal Service, Salaries, Regular Employees. This necessitates a transfer of \$486.

In this respect it is proposed to change the lines in the accounts as indicated, now reading:

<i>Institutional Care for Dependents.</i>	
Dependent Sick—	
1923 Kings County Hospital—	
Trained Nurse, 38 at \$600.....	\$22,800 00
Pupil Nurse, 31 at \$120.....	3,720 00
Total.....	\$26,520 00
1926 Reception Hospital, Coney Island—	
Pupil Nurse, 5 at \$120.....	\$600 00
Pupil Nurse, 7 at \$144.....	1,008 00
Total.....	1,608 00
Training of Nurses—	
1933 New York City Training School for Nurses—	
Pupil Nurse, 34 at \$120.....	\$4,080 00
Pupil Nurse, 40 at \$144.....	5,760 00
Unassigned Balance	24 00
Total.....	9,864 00
1934 Metropolitan Hospital Training School—	
Pupil Nurse, 23 at \$144.....	\$3,312 00
Pupil Nurse, 20 at \$180.....	3,600 00
Total.....	6,912 00
Total.....	\$44,904 00

—to read as follows:

<i>Institutional Care for Dependents.</i>	
Dependent Sick—	
1923 Kings County Hospital—	
Trained Nurse, 39 at \$600.....	\$23,400 00
Pupil Nurse, 38 at \$120.....	4,560 00
Total.....	\$27,960 00
1926 Reception Hospital, Coney Island—	
Pupil Nurse, at \$120.....	\$120 00
Pupil Nurse, 4 at \$144.....	576 00
Total.....	696 00
Training of Nurses—	
1933 New York City Training School for Nurses—	
Pupil Nurse, 33 at \$120.....	\$3,960 00
Pupil Nurse, 33 at \$144.....	4,752 00
Unassigned Balance	120 00
Total.....	8,832 00
1934 Metropolitan Hospital Training School—	
Pupil Nurse, 24 at \$144.....	\$3,456 00
Pupil Nurse, 22 at \$180.....	3,960 00
Total.....	7,416 00
Total.....	\$44,904 00

Owing to the tendency of the census of patients in the hospitals to increase at this time of the year, it becomes necessary to add to the nursing staff by registering pupils in the nurses' training schools of the department in those institutions where the census is increasing. In Account No. 1923 the line reading Trained Nurse, 38 at \$600, is increased by one Trained Nurse, while 7 Pupil Nurses are added to the line "Pupil Nurse, 31 at \$120." In Account No. 1934 the line "Pupil Nurse, 23 at \$144, \$3,312" is increased by one Pupil Nurse, and the line Pupil Nurse, 20 at \$180, is made to read 22 at \$180. Against these increases corresponding decreases in accounts are made in Accounts Nos. 1926 and 1933 for Reception Hospital, Coney Island, and New York Training School for Nurses, as indicated in the changes referred to.

The line item changes in detail are as follows:

Account No.	Existing Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Increase.	Decrease.	Increase.	Decrease.
1923	Pupil Nurse, 31 at \$120.....	\$840 00		\$210 00	
	Trained Nurse, 38 at \$600.....	600 00		150 00	
1926	Pupil Nurse, 5 at \$120.....		480 00		120 00
	Pupil Nurse, 7 at \$144.....		432 00		108 00
1933	Pupil Nurse, 34 at \$120.....		120 00		30 00
	Pupil Nurse, 40 at \$144.....		1,008 00		252 00
	Unassigned balance	96 00		24 00	
1934	Pupil Nurse, 23 at \$144.....	144 00		36 00	
	Pupil Nurse, 20 at \$180.....	360 00		90 00	
		\$2,040 00	\$2,040 00	\$510 00	\$510 00

It will be seen from the foregoing statement that, by adding up the differences between the increase and decrease of the accounts referred to, it is necessary to provide for a cash transfer of \$486.

These changes do not involve any increase in the budget, but represent merely an adjustment between the accounts affected by the modification requested.

A sufficient balance of funds remains in Accounts Nos. 1926 and 1933 respectively to permit the necessary transfers.

The adoption of the attached resolutions approving the proposed modification and the transfer of funds necessitated thereby is therefore recommended.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of Section 237 of the Greater New York Charter, hereby approves the transfer of funds appropriated to the Department of Public Charities for the year 1914, as follows:

FROM	
<i>Personal Service, Salaries Regular Employees.</i>	
Institutional Care for Dependents, Dependent Sick—	
1926 Reception Hospital, Coney Island.....	\$228 00
Institutional Care for Dependents, Training of Nurses—	
1933 New York City Training School for Nurses.....	258 00
Total.....	\$486 00
TO	
<i>Personal Service, Salaries, Regular Employees.</i>	
Institutional Care for Dependents, Dependent Sick—	
1923 Kings County Hospital	\$360 00
Institutional Care for Dependents, Training of Nurses—	
1934 Metropolitan Hospital Training School	126 00
Total.....	\$486 00

Which was adopted by the following vote:
Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Public Charities for the year 1914, to take effect as of October 1, 1914, as follows:

Salaries, Regular Employees.

Institutional Care for Dependents—	
Dependent Sick—	
1923 Kings County Hospital—	
General Medical Superintendent	\$5,000 00
Deputy Medical Superintendent	1,800 00
Superintendent of Training School	1,800 00
Deputy Superintendent of Training School, 2 at \$1,200	2,400 00
Alienist	2,700 00
First Assistant Alienist	1,800 00
Second Assistant Alienist	1,320 00
Director of Laboratories	2,700 00
Clerk (annual salary rate, \$960; in lieu of maintenance, \$240)	1,200 00
Stenographer	750 00
Stenographer	600 00
Stenographer (annual salary rate, \$600; in lieu of maintenance, \$180)	780 00
Assistant Bookkeeper	720 00
Pathologist (annual salary rate, \$1,320; in lieu of maintenance, \$180)	1,500 00
Pharmacist (annual salary rate, \$960; in lieu of maintenance, \$120)	1,080 00
Assistant Pharmacist (annual salary rate, \$720; in lieu of maintenance, \$180)	900 00
Executive Interne	720 00
Executive Interne	600 00
Dietitian, 2 at \$720	1,440 00
Supervising Nurse, 5 at \$780	3,900 00
Nurse, Supervising (Psychopathic)	720 00
Head Nurse, 7 at \$600	4,200 00
Trained Nurse, 39 at \$600	23,400 00
Trained Nurse (Social Service)	750 00
Trained Nurse (Social Service)	600 00
Trained Nurse (Psychopathic)	600 00
Pupil Nurse, 38 at \$120	4,560 00
Pupil Nurse, 32 at \$144	4,608 00
Head Cook	780 00
Laundryman in Charge	600 00
Male Attendant in Charge	600 00
Assistant Supervisor	900 00
Supervisor, Second Assistant	720 00
Supervisor, Second Assistant	600 00
Attendant (Psychopathic)	600 00
Special Officer (annual salary rate \$720; in lieu of maintenance, \$240)	960 00
Special Officer	720 00
Baker	600 00
Hospital Helper	600 00
Auto Engineman (annual salary rate, 3 at \$960 each, \$2,880; in lieu of maintenance, 3 at \$180 each, \$540)	3,420 00
Balance unassigned	72 00
	\$84,740 00

1926 Reception Hospital, Coney Island—	
Deputy Medical Superintendent	\$1,800 00
Deputy Superintendent of Training School	1,200 00
Clerk	900 00
Clerk	600 00
Stenographer	600 00
Pharmacist	900 00
Supervising Nurse	750 00
Trained Nurse, 8 at \$600	4,800 00
Pupil Nurse	120 00
Pupil Nurse, 4 at \$144	576 00
Cook	600 00
Laundryman	600 00
Driver	500 00
Auto Engineman, 2 at \$1,200	2,400 00
	\$16,346 00

Training of Nurses—	
1933 New York City Training School for Nurses—	
Superintendent	\$1,800 00
Deputy Superintendent, 3 at \$1,200	3,600 00
Supervising Nurse	840 00
Supervising Nurse, 2 at \$720	1,440 00
Trained Nurse, 25 at \$600	15,000 00
Pupil Nurse, 33 at \$120	3,960 00
Pupil Nurse, 33 at \$144	4,752 00
Dietitian	720 00
Stenographer (annual salary rate, \$720; in lieu of maintenance, \$60)	780 00
Attendant, 10 at \$360	3,600 00
Balance Unassigned	120 00
	\$36,612 00

1934 Metropolitan Hospital Training School—	
Superintendent	\$1,800 00
Deputy Superintendent, 3 at \$1,200	3,600 00
Deputy Superintendent	1,050 00
Nurse (Supervising)	840 00
Instructor Nurse	840 00
Supervising Nurse	720 00
Supervising Nurse, 4 at \$850	3,400 00
Trained Nurse, 40 at \$600	24,000 00
Pupil Nurse, 23 at \$120	2,760 00
Pupil Nurse, 24 at \$144	3,456 00
Pupil Nurse, 22 at \$180	3,960 00
Dietitian	720 00
Stenographer (annual salary rate, \$600; in lieu of maintenance, \$180)	780 00
Attendant, 12 at \$360	4,320 00
Unassigned Balance	192 00
	\$52,438 00

Which was adopted by the following vote:
Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Education—Modification of Schedules (Cal. No. 45).

The Secretary presented two communications, dated November 9 and 14, 1914, respectively, from the Board of Education, requesting the modification of schedules for said Department for 1914; and the following report of the Comptroller recommending approval thereof:

City of New York, Department of Finance, Comptroller's Office, November 17, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On November 9 and 14, 1914, the Board of Education requested modification of salary schedules Nos. 866 and 859, respectively. In connection therewith, I report as follows:

In No. 866, Wages Temporary Employees, Administration, it is proposed to change the lines:

Emergency Help, at \$2 per day (95 days)..... \$190 00

Clerk or Statistician at \$3 per day (791½ days)	2,375 00
Tabulating Machine Operator, at \$2.50 per day (750 days)	1,875 00
Tabulating Machine Operator, at \$3.00 per day (150 days)	450 00
	\$4,890 00

to read:

Emergency Help at \$2 per day (92 days)	\$184 00
Clerk or Statistician at \$3 per day (807¾ days)	2,423 25
Tabulating Machine Operator, at \$2.50 per day (729½ days)	1,823 75
Tabulating Machine Operator, at \$3.00 per day (153 days)	459 00

This change is necessary in order to provide for continuing the service of persons now employed at the temporary rate of \$3 per day.

In No. 859, Supervision of Lectures, the line:
Stenographer and Typewriter, 2 at \$900..... \$1,800 00

is changed to read:

Stenographer and Typewriter, 1 at \$900	\$900 00
Stenographer and Typewriter, 1 at \$600	600 00
Clerk, 1 at \$300	300 00
	\$1,800 00

This eliminates a vacant position of stenographer and typewriter at \$900, and substitutes in lieu thereof two positions, namely, stenographer and typewriter at \$600 and clerk at \$300 per annum, respectively, which are to be filled by appointment from Civil Service eligible lists.

In detail the line item changes are as follows:

Code No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
859	Stenographer and Typewriter, 2 at \$900	\$900 00		\$177 50	
	Stenographer and Typewriter		\$600 00		\$118 33
	Clerk		300 00		59 17
866	Emergency Help at \$2 per day (95 days)	6 00		6 00	
	Clerk or Statistician at \$3 per day (791½ days)		48 25		48 25
	Tabulating Machine Operator, at \$2.50 per day (750 days)	51 25		51 25	
	Tabulating Machine Operator at \$3 per day (150 days)		9 00		9 00
		\$957 25	\$957 25	\$234 75	\$234 75

I recommend that the request be granted by the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller and Chairman, Committee on Education.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves the schedule, as revised, for the Department of Education for the year 1914, to take effect as of November 20, 1914, as follows:

SPECIAL SCHOOL FUND.

Personal Service, Salaries Regular Employees, Administration.

859 Supervision of Lectures—	
Clerk	\$540 00
Clerk	300 00
Stenographer and Typewriter	1,350 00
Stenographer and Typewriter, 2 at \$1,200	2,400 00
Stenographer and Typewriter	1,050 00
Stenographer and Typewriter	900 00
Stenographer and Typewriter	600 00
Librarian	900 00

Schedule Total..... \$8,040 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the schedule, as revised, for the Department of Education for the year 1914, to take effect as of November 13, 1914, as follows:

SPECIAL SCHOOL FUND.

Personal Service, Wages Temporary Employees, Administration.

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
866 General—			
Emergency Help, at \$2 per day (92 days) ..	\$184 00		\$184 00
Emergency Help, at \$3 per day (370 days) ..	1,110 00		1,110 00
Motion Picture Operator, Public School No. 62, Manhattan, at \$3 per lecture	200 00		200 00
Clerk or Statistician, at \$3 per day (807¾ days)	2,423 25		2,423 25
Tabulating Machine Operator, at \$2.50 per day (729½ days)	1,823 75		1,823 75
Tabulating Machine Operator, at \$3 per day (153 days)	459 00		459 00
Draftsman, at \$25 per week (50 weeks) ..		\$1,250 00	1,250 00

Schedule Total..... \$7,450 00

Tax Levy Allowance..... \$6,200 00

Special Revenue Bond Allowance..... 1,250 00

Total Allowance..... \$7,450 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Parks, Borough of The Bronx—Transfer of Appropriation and Modification of Schedules (Cal. No. 46).

The Secretary presented two communications, dated November 2 and 6, 1914, respectively, from the Commissioner of Parks, Borough of The Bronx, requesting a transfer within the appropriation for said department for 1914; and the following report of the Comptroller recommending approval thereof and modification of schedules:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 12, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—In two communications dated November 2 and November 6, 1914, respectively, the Department of Parks, Borough of The Bronx, requested modification of the schedules supporting Account Nos. 1216 and 1217, for Personal Service, Wages Temporary Employees, Care of Parks and Boulevards and Care of Trees in City Streets for 1914. These proposed changes involve a cash transfer of \$3,697.00 from Account No. 1217, Care of Trees in City Streets, to Account No. 1216, Care of Parks and Boulevards.

In reference to the requests for modifications of the schedules in the accounts referred to, it is proposed that the lines reading:

1216	Pipefitter, at \$5.50 per day (50 days).....	\$275 00
	Bricklayer, at \$6.00 per day (224 days).....	1,344 00
	Laborer, at \$2.50 per day (68,275 days).....	170,687 50
	Auto Lawn Mower Engineer at \$3.50 per day (645 days).....	2,257 50
1217	Climber and Pruner, at \$2.50 per day (6,080 days).....	15,200 00
	Engineman, at \$3.50 per day (575 days).....	2,012 50
Total.....		\$191,776 50

be changed to read as follows:

1216	Pipefitter, at \$5.50 per day (2 days).....	\$11 00
	Bricklayer, at \$6.00 per day (268 days).....	1,608 00
	Laborer, at \$2.50 per day (69,625 days).....	174,062 50
	Auto Lawn Mower Engineer, at \$3.50 per day (737 days).....	2,579 50
1217	Climber and Pruner, at \$2.50 per day (4,730 days).....	11,825 00
	Engineman, at \$3.50 per day (483 days).....	1,690 50
Total.....		\$191,776 50

The purpose of the proposed modification in Account No. 1216 is to increase the amount available in the line Bricklayer at \$6.00 per day by \$264.00 (44 days), to provide for repairs to the chimney and foundation of Log House at Athletic Beach, in Pelham Bay Park, condemned by the Building Department as unsafe, to put in a cement floor in the Rustic Summer House in Echo Park, and to build stone steps in Claremont and McComb's Dam Parks. The additional funds necessary to provide for this increase will be obtained by decreasing the amount available in Account No. 1216 for Pipefitter at \$5.50 per day by \$264.00 (48 days).

The same account is increased for Laborer at \$2.50 per day, \$3,375.00 (1,350 days). The additional time thus provided will enable the Park Commissioner to employ extra labor to repair roads in Van Cortlandt Park and Moshulu Parkway. Funds are provided for this purpose by reducing the amount for Climber and Pruner, at \$2.50 per day, \$3,375.00 (1,350 days).

By increasing the amount in Account No. 1216 for Auto Lawn Mower Engineer at \$3.50 per day \$322.00 (92 days), the Park Department will be able to meet current payrolls. The necessary funds required to make this change are procured by reducing the number of days in Account No. 1217 for Engineman at \$3.50 per day from 575 days to 483 days, a decrease of 92 days, amounting to \$322.00.

The line item changes in detail are then as follows:

Ac. count No.	Title.	Schedule Changes.	
		Increase.	Decrease.
1216	Pipefitter, at \$5.50 per day.....		\$264 00
	Bricklayer, at \$6.00 per day.....	\$264 00	
	Laborer, at \$2.50 per day.....	3,375 00	
	Auto Lawn Mower Engineer, at \$3.50.....	322 00	
1217	Climber and Pruner, at \$2.50 per day.....		3,375 00
	Engineman, at \$3.50 per day.....		322 00
Total changes		\$3,961 00	\$3,961 00

It will be seen that the net difference in the increases and decreases of the two accounts in the table referred to necessitate a transfer of \$3,697.00 being made, from Account No. 1217, Personal Service, Wages Temporary Employees, Care of Trees in City Streets, to Account No. 1216, Personal Service, Wages Temporary Employees, Care of Parks and Boulevards.

The adoption of the attached resolution approving the proposed transfer and the schedules as revised is therefore recommended. Respectfully submitted,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of Section 237 of the Greater New York Charter, hereby approves the transfer of funds appropriated to the Department of Parks, Borough of The Bronx, for the year 1914, as follows:

FROM		
Personal Service, Wages Temporary Employees.		
1217	Care of Trees in City Streets.....	\$3,697 00
TO		
Personal Service, Wages Temporary Employees.		
1216	Care of Parks and Boulevards.....	\$3,697 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, hereby approves of the schedules, as revised, for the Department of Parks, Borough of The Bronx, for the year 1914, as follows:

	Paid from Tax Levy Appro- priation.	Paid from Special Revenue Bonds.	Total.
1216	Care of Parks and Boulevards—		
	Bricklayer, at \$6 per day, 268 days.....	\$1,608 00	\$1,608 00
	Painter, at \$4 per day, 1,275 days.....	3,200 00	5,100 00
	Pipefitter, at \$5.50 per day, 2 days.....	11 00	11 00
	Laborer, at \$2.50 per day, 69,625 days.....	174,062 50	174,062 50
	Blaster, at \$4 per day, 200 days.....	800 00	800 00
	Auto Lawn Mower Engineer, at \$3.50 per day, 737 days	2,579 50	2,579 50
	Rammer, at \$4 per day, 100 days.....	400 00	400 00
	Paver, at \$5 per day, 100 days.....	500 00	500 00
	Steam Engineer, at \$4.75 per day, 529 days.....	2,512 75	2,512 75
	Steam Roller Engineer, at \$5 per day, 193 days	965 00	965 00
	Stoker, at \$3 per day, 1,674 days.....	5,022 00	5,022 00
	Unassigned balance	2 25	2 25
		\$191,663 00	\$193,563 00
Tax Levy Appropriation			\$191,663 00
Special Revenue Bond Appropriation.....			1,900 00
Schedule Total			\$193,563 00

	Paid from Tax Levy Appro- priation.	Paid from Special Revenue Bonds.	Total.
1217	Care of Trees in City Streets—		
	Engineman, at \$3.50 per day, 483 days....	\$1,690 50	\$1,690 50
	Climber and Pruner, at \$2.50 per day, 4,730 days	11,825 00	11,825 00
	Laborer, at \$2.50 per day, 236 days.....	590 00	590 00
Schedule Total		\$14,105 50	\$14,105 50

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Fire Department; Board of Aldermen—Transfer of Appropriation and Modification of Schedules (Cal. No. 47).

The Secretary presented the following report of the Comptroller:
Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 17, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—On November 12, 1914, the President of the Board of Aldermen requested the transfer of \$650 from some account having an unencumbered balance available for transfer, to the following accounts:

Supplies, Office Supplies.	
5 Board of Aldermen.....	\$200 00
6 President, Board of Aldermen.....	100 00
7 City Clerk	350 00

Total..... \$650 00

On November 11, 1914, the Commissioner of the Fire Department formally released \$15,000 from the 1914 appropriations to that Department for use in other Departments. Of this amount there still remains a balance sufficient to permit a transfer of \$650 for the purposes of the Board of Aldermen and City Clerk.

It is proposed, therefore, that the following transfer of funds be made:

FROM		
FIRE DEPARTMENT.		
Contract or Open Order Service, General Repairs.		
1706	Care of Buildings and Grounds.....	\$650 00
TO		
BOARD OF ALDERMEN AND CITY CLERK.		
Supplies, Office Supplies.		
5 Board of Aldermen.....	\$200 00	
6 President, Board of Aldermen.....	100 00	
7 City Clerk	350 00	

Total..... \$650 00

The purpose of the proposed transfer is to replenish the appropriations made to the last named office for 1914, which are insufficient for the remainder of the year.

In Account No. 5, the remaining available balance is \$268.32. Bills amounting to \$450 for expenses in connection with the funeral services of a deceased Alderman are pending, making it necessary that additional funds be provided at once.

Account No. 6 has become practically exhausted. In Account No. 7 there is a balance of only \$36. Bills pending and due, and the needs of the office of the City Clerk, make it necessary that additional funds to the extent of \$350 be provided.

The adoption of the attached resolutions, approving the proposed transfer and the schedules, as revised, is therefore recommended.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of Section 237 of the Greater New York Charter, hereby approves the transfer of funds appropriated for 1914, as follows:

FROM		
FIRE DEPARTMENT.		
Contract or Open Order Service, General Repairs.		
1706	Care of Buildings and Grounds.....	\$650 00
TO		
BOARD OF ALDERMEN AND CITY CLERK.		
Supplies, Office Supplies.		
5 Board of Aldermen	\$200 00	
6 President, Board of Aldermen	100 00	
7 City Clerk	350 00	

\$650 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the schedules, as revised, for 1914, as follows:

BOARD OF ALDERMEN AND CITY CLERK.		
Supplies, Office Supplies.		
5 Board of Aldermen	\$835 00	
6 President, Board of Aldermen	1,115 00	
7 City Clerk	2,040 00	

FIRE DEPARTMENT.		
Contract or Open Order Service, General Repairs.		
1706	Care of Buildings and Grounds.....	\$61,400 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Commissioners of Accounts; City Chamberlain—Transfer of Appropriation and Modification of Schedules (Cal. No. 48).

The Secretary presented a communication dated November 12, 1914, from the City Chamberlain requesting a transfer of \$300 within the appropriation made to the Commissioner of Accounts for 1914, to accounts within the appropriation to the office of the City Chamberlain for 1914; and the following report of the Comptroller recommending approval thereof and modification of schedules:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 17, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—On November 12, 1914, the Chamberlain requested transfer to his bureau of \$300 appropriated to the office of the Commissioners of Accounts for 1914. The increases and decreases in the accounts affected by the proposed transfer are as follows:

FROM		
COMMISSIONERS OF ACCOUNTS.		
Supplies.		
213	Office Supplies	\$100 00
Contract or Open Order Service, Transportation.		
218	Carfare	200 00
TO		
CITY CHAMBERLAIN.		
115	Contingencies	\$300 00

In making the request referred to the Chamberlain estimated that 12,000 stamped envelopes would be required for the remainder of the year at a cost of \$252, in order to mail the checks in payment of fees for jurors and witnesses, and that a further sum of about \$60 would be required for stamps for other purposes. This estimate has been verified by an examiner of the Bureau of Municipal Investigation and Statistics. Since that time it has been necessary to purchase stamps and stamped envelopes from funds in accounts other than office supplies, of which \$21 was charged to Contingencies, and on November 13, 1914, permission was given to charge \$25 for the purchase of stamps to Transportation Account, provided that that amount be transferred back when additional funds were obtained. It will be necessary also to put back the \$21 in Contingencies, as the unencumbered balance in that account is only \$4.22, and charges for supplies and other contingent expenses will have to be met. With these exceptions it seems that the transfer requested should be made to Account No. 112, Supplies, and not to Contingencies. The Commissioners of Accounts has consented to the transfer of funds as indicated.

The adoption of the attached resolution approving the transfer of \$300 as stated and the revised schedules is therefore recommended.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of Section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated for the year 1914, as follows:

FROM COMMISSIONERS OF ACCOUNTS. Supplies.		
213 Supplies		\$100 00
218 Carfare	Contract or Open Order Service, Transportation.	200 00
		\$300 00
TO CITY CHAMBERLAIN.		
112 Supplies		\$254 00
114 Contract or Open Order Service, Transportation.....		25 00
115 Contingencies		21 00
		\$300 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves schedules, as revised, for the Commissioners of Accounts and the City Chamberlain for the year 1914, as follows:

COMMISSIONERS OF ACCOUNTS. Supplies.		
213 Office Supplies		\$976 21
218 Carfare	Contract or Open Order Service, Transportation.	1,935 34
CITY CHAMBERLAIN.		
112 Supplies		1,579 40
114 Contract or Open Order Service—		
Transportation	\$100 00	
Communication	400 00	
General Plant Service.....	89 00	
Total Contract or Open Order Service.....		589 00
115 Contingencies		196 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

President, Borough of Manhattan—Transfer of Appropriation and Modification of Schedules (Cal. No. 49).

The Secretary presented a communication dated October 30, 1914, from the President of the Borough of Manhattan, requesting a transfer within the appropriation for said office for 1914; and the following report of the Comptroller recommending approval thereof and modification of schedules:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 17, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—On October 30, 1914, the President of the Borough of Manhattan requested the transfer of \$21,000 within the appropriations made to that department for 1914, from Account No. 425, Contract or Open Order Service, General Repairs, Care of Highways, to Account No. 407, Purchase of Equipment, Motor Vehicles and Equipment, Administration and Public Works.

The purpose of the proposed transfer is to provide for the purchase of four ten-ton motor driven tractors with accessories, at a total estimated cost of \$20,000, to be used for hauling asphalt mixture to departmental gangs engaged in making repairs to pavements; also to provide for the purchase of one automobile runabout at an estimated cost of \$1,000, for the use of the superintendent of the asphalt plant and the gang supervisor.

Heavy motor trucks have not heretofore been used on asphalt pavement repair work in the Borough of Manhattan for the reason that a considerable part of this repair work involves short haul transportation of materials, and in addition a considerable loss of time in waiting at the place of repair. The waiting time on this class of work is so great as to make the use of the ordinary heavy motor truck more costly than the horse drawn vehicles.

The development of the modern motor-driven tractor, however, has opened a way for its use on this class of work without entailing any considerable loss of waiting time.

It is proposed to use the tractors in conjunction with dump wagon trailers of a 4½ cubic yard capacity, in the following manner: A trailer will be loaded at the plant and hauled out to a gang on the street. The trailer will then be detached, coming back to the plant alone. The tractor will then pick up another loaded trailer and haul this out to a gang on the street, returning with the empty trailer. In this way it is expected to bring the waiting time down to a minimum and to reduce the present cost of transportation.

On September 21, 1914, the Board of Estimate and Apportionment approved the transfer of \$7,000 within the appropriations made to the office of the President of the Borough of Manhattan to purchase one ten-ton motor-driven tractor with accessories and three dump wagon trailers. The report upon which the foregoing transfer was made estimated that the daily expense for the tractor and three trailers, including depreciation and interest on investment, would be \$22.74 per day on the basis of a 200 working-day year, and an average daily run of sixty miles.

Later a test was made of two different types of tractor, and the following table shows the comparative efficiency of each tractor at an estimated cost of \$22.74 per day each as compared with horse-drawn vehicles at a rate of \$7 per day each:

	Tractor No. 1.	Tractor No. 2.	Horse- Drawn Truck.
Average cost per day	\$22.74	\$22.74	\$7.00
Average miles traveled	30.	30.	5.
Cubic yards hauled	22.5	17.	5.
Cost per cubic yard	1.01	1.33	1.40
Square yards of pavement laid.....	225.	170.	50.
Cost per square yard.....	.101	.133	.14

It will thus be seen that notwithstanding that the above figures represent only about 50 per cent. efficiency, the use of the tractors will effect a saving of from .007 to .039 cents per square yard of pavement repaired or from \$1.20 to \$9 per day for each motor-driven tractor in operation.

In making the allowance for horse-drawn vehicles in the 1915 budget, it was figured that the horse-drawn vehicles would be used only for the purpose of removing waste material from the street to the dump.

An examination of the estimate of the cost of these tractors discloses, however, that \$16,000 should be sufficient to purchase these tractors and accessories, as follows:

4 tractors at \$3,750 each	\$15,000 00
4 wheels at \$150 each.....	600 00
8 jacks at \$25 each.....	200 00
Lamps and small equipment.....	200 00

Total

Relative to that part of the request involving the purchase of one automobile runabout at a cost of \$1,000 for the use of the superintendent of the asphalt plant and the gang supervisor, the following information is submitted:

The asphalt plant division now has the use of a runabout each morning. While this arrangement was satisfactory during the first few months of the operation of the asphalt plant, the increase in the number of street repair gangs, the extension of the field of operation to all parts of the borough, and the placing in operation of the new motor-driven tractors, make it imperative, to secure the greatest efficiency, that a car be placed entirely at the disposal of the supervisors of this work.

In response to the suggestion that one of the other cars of the department be

used for this work, the Assistant Commissioner of Public Works states that this is impossible, as all the cars of the department are now fully employed. It is recommended therefore that the automobile runabout requested for the use of the asphalt plant be allowed.

In view of the foregoing, the adoption of the attached resolutions approving the proposed transfer to the extent of \$17,000, and the schedules, as revised, is therefore recommended. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of Section 237 of the Greater New York Charter, hereby approves the transfer of funds appropriated to the office of the President of the Borough of Manhattan for the year 1914, as follows:

FROM Contract or Open Order Service, General Repairs.		
425 Care of Highways		\$17,000 00
TO Purchase of Equipment, Motor Vehicles and Equipment.		
407 Administration and Public Works.....		\$17,000 00
Which was adopted by the following vote:		
Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.		
The following resolution was offered:		
Resolved, That the Board of Estimate and Apportionment hereby approves the schedules, as revised, for the office of the President of the Borough of Manhattan for the year 1914, as follows:		
Purchase of Equipment, Motor Vehicles and Equipment.		
407 Administration and Public Works—		
General	\$4,800 00	
Asphalt Plant	23,000 00	
		\$27,800 00
Contract or Open Order Service, General Repairs.		
425 Care of Highways		
Roadways, Viaducts and Stone Pavements.....	\$3,685 00	
Pavements other than Stone, General.....	355,465 00	
Due to Fireburns	3,500 00	
Due to Unknown Causes.....	10,000 00	
Due to Cuts made by Department of Water Supply, Gas and Elec- tricity	30,000 00	
Sidewalks in Front of City Property.....	200 00	
		\$402,850 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Street Cleaning—Transfer of Appropriation and Modification of Schedules (Cal. No. 50).

The Secretary presented a communication dated November 9, 1914, from the Commissioner of Street Cleaning, requesting a transfer within the appropriation for said department for 1914; and the following report of the Comptroller recommending approval thereof and modification of schedules:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 16, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—In a communication dated November 9, 1914, the Department of Street Cleaning requested the transfer of \$10,000 within the appropriations made to that department for the year 1914. The increase and decreases in the accounts affected by the proposed transfer are as follows:

FROM Personal Service, Wages, Temporary Employees, Sweeping and Cleaning.		
2355 Manhattan	\$5,000 00	
2356 Brooklyn	5,000 00	
		\$10,000 00
TO Contract or Open Order Service, Transportation, Hire of Horses and Vehicles with Drivers, Carting and Stables.		
2396 The Bronx	\$10,000 00	

The proposed transfer to Account No. 2396 referred to is made necessary by the rapid increase in population in The Bronx and the consequent additional amount of garbage and ashes to be collected.

This request is contrary to the provisions of rules "d" and "e" as laid down in the resolutions accompanying the 1914 Budget appropriations which inhibit the transfer of any sum to or from an account entitled "Wages, Temporary Employees," to any other appropriation or schedule other than "Wages, Temporary Employees," or for a transfer "to or from any appropriation classified as Hire of Horses and Vehicles with Drivers," except to or from an account so described. The request is, however, submitted as a possible alternative to authorizing at a subsequent date an issuance of special revenue bonds, there being no funds available in any of the appropriations other than Personal Service from which this suggested transfer can be made. Should the transfer be not approved the whole of the available balances at December 31, 1914, in Accounts Nos. 2355 and 2356, respectively, will, under Section 549 of the Greater New York Charter, be transferred to the Pension Fund of the Street Cleaning Department.

The available balance in Account No. 2396 on November 1, 1914, was \$1,330.60. A sufficient balance of funds remains in Accounts Nos. 2355 and 2356 to permit of the transfer requested.

Under the circumstances stated in reference to the transfer of \$10,000 requested, resolutions authorizing the said transfer, and approving the schedules as revised are attached for your consideration in the event of your board desiring to waive the inhibition referred to.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of Section 237 of the Greater New York Charter, hereby approves the transfer of funds appropriated to the Department of Street Cleaning for 1914, as follows:

FROM Personal Service, Temporary Employees, Sweeping and Cleaning.		
2355 Manhattan	\$5,000 00	
2356 Brooklyn	5,000 00	
		\$10,000 00
TO Contract or Open Order Service, Transportation, Hire of Horses and Vehicles with Drivers, Carting and Stables.		
2396 The Bronx	\$10,000 00	

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, Queens and Richmond—15.

Present and Not Voting—The President of the Borough of The Bronx—1.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Street Cleaning for 1914, as follows:

DEPARTMENT OF STREET CLEANING. Personal Service, Temporary Employees, Sweeping and Cleaning.		
2355 Manhattan—		
Machine and Sprinkling Cart Driver, at \$800 (6,274 days).....	\$15,998 70	
Sweeper, at \$2 (17,250 days)	34,500 00	
Machine and Sprinkling Cart Driver, at \$2 (19,260 days).....	38,520 00	
Machine and Sprinkling Cart Driver, Sunday pay, at 25 cents per hour (2,480 hours)	620 00	
Sweeper, Sunday pay at 25 cents per hour (160,000 hours).....	40,000 00	
Driver, Sunday pay at 25 cents per hour (208 hours).....	52 00	

Section Station Keeper, Sunday pay at 25 cents per hour (7,128 hours)	1,782 00	2589 The S. R. Smith Infirmary.....	1,250 00
Custodian of Yards, Sunday pay at 25 cents per hour (1,323½ hours)	330 95	2593 Williamsburg Hospital	1,000 00
	\$131,803 65	2595 Wayside Home	1,000 00
2356 Brooklyn—		2598 Catholic Institute for the Blind.....	1,000 00
Machine and Sprinkling Cart Driver, at \$800 (4,118 days)	\$10,500 90	2603 Blythedale Home for Tubercular Crippled Children.....	500 00
Sweeper, at \$2 per day (28,300 days)	56,600 00	2604 Montefiore Home	39,000 00
Machine and Sprinkling Cart Driver, at \$2 per day (5,275 days)	10,550 00	2607 Catholic Guardian Society.....	700 00
Machine and Sprinkling Cart Driver, Sunday pay at 25 cents per hour (803 hours)	200 75	2600 Vocational Training	7,000 00
Sweeper, Sunday pay at 25 cents per hour (44,000 hours)	11,000 00		
Section Station Keeper, Sunday pay at 25 cents per hour (2,000 hours)	500 00	Total	\$251,425 00
Custodian of Yards, Sunday pay at 25 cents per hour (206 2-5 hours)	51 60		
26th Ward Streets, Laborer at \$2.50 per day (430 days)	1,075 00	The appropriation for Account No. 2450 was \$94,000. Estimated liabilities for the year 1914 will amount approximately to \$104,000, making necessary an additional transfer of \$10,000.	
	\$90,478 25	The appropriation for Account No. 2453 was \$45,750. The estimated liabilities for the year 1914 will amount approximately to \$47,750, making necessary an additional transfer of \$2,000 to meet this deficiency.	
Transportation, Hire of Horses and Vehicles with Drivers, Carting and Stables.		The appropriation for Account No. 2454 was \$6,050. The estimated liabilities for the year 1914 will amount approximately to \$7,125, making necessary an additional transfer of \$1,075 to meet this deficiency.	
2396 The Bronx	\$35,000 00	The appropriation for Account No. 2456 was \$30,800. The estimated liabilities for the year 1914 will amount approximately to \$32,350, making necessary an additional transfer of \$1,550 to meet this deficiency.	
Which was adopted by the following vote:		The appropriation for Account No. 2458 was \$39,000. The estimated liabilities for the year 1914 will amount approximately to \$44,200, making necessary an additional transfer of \$5,200 to meet this deficiency.	
Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, Queens and Richmond—15.		The appropriation for Account No. 2462 was \$3,900. The estimated liabilities for the year 1914 will amount approximately to \$4,900, making necessary an additional transfer of \$1,000 to meet this deficiency.	
Present and Not Voting—The President of the Borough of The Bronx—1.		The appropriation for Account No. 2466 was \$16,500. The estimated liabilities for the year 1914 will amount approximately to \$20,200, making necessary an additional transfer of \$3,700.	
Public Recreation Commission—Transfer of Appropriation and Modification of Schedules (Cal. No. 51).		The appropriation for Account No. 2469 was \$83,600. The estimated liabilities for the year 1914 will amount approximately to \$94,600, making necessary an additional transfer of \$11,000 to meet this deficiency.	
The Secretary presented a communication dated October 27, 1914, from the Public Recreation Commission requesting a transfer within the appropriation for said office for 1914; and the following report of the Comptroller recommending approval thereof and modification of schedules:		The appropriation for Account No. 2480 was \$134,000. The estimated liabilities for the year 1914 will amount approximately to \$141,000, making necessary an additional transfer of \$7,000 to meet this deficiency.	
Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 10, 1914.		The appropriation for Account No. 2481 was \$14,000. The estimated liabilities for the year 1914 will amount approximately to \$18,000, making necessary an additional transfer of \$4,000 to meet this deficiency.	
To the Board of Estimate and Apportionment, The City of New York:		The appropriation for Account No. 2482 was \$33,600. The estimated liabilities for the year 1914 will amount approximately to \$40,000, making necessary an additional transfer of \$6,400 to meet this deficiency.	
Gentlemen—On October 27, 1914, the Public Recreation Commission requested the transfer of funds within the appropriations made to that commission for 1914. The increase and decrease in the accounts affected by the proposed transfer are as follows:		The appropriation for Account No. 2487 was \$15,000. The estimated liabilities for the year 1914 will amount approximately to \$17,600, making necessary an additional transfer of \$2,600 to meet this deficiency.	
		The appropriation for Account No. 2488 was \$38,500. The estimated liabilities for the year 1914 will amount approximately to \$54,000, making necessary an additional transfer of \$15,500 to meet this deficiency.	
		The appropriation for Account No. 2489 was \$129,000. The estimated liabilities for the year 1914 will amount approximately to \$139,000, making necessary an additional transfer of \$10,000 to meet this deficiency.	
		The appropriation for Account No. 2491 was \$12,000. The estimated liabilities for the year 1914 will amount approximately to \$13,000, making necessary an additional transfer of \$1,000 to meet this deficiency.	
		The appropriation for Account No. 2492 was \$8,800. The estimated liabilities for the year 1914 will amount approximately to \$9,800, making necessary an additional transfer of \$1,000 to meet this deficiency.	
		The appropriation for Account No. 2499 was \$105,700. The estimated liabilities for the year 1914 will amount approximately to \$116,200, making necessary an additional transfer of \$10,500 to meet this deficiency.	
		The appropriation for Account No. 2502 was \$8,500. The estimated liabilities for the year 1914 will amount approximately to \$8,800, making necessary an additional transfer of \$300 to meet this deficiency.	
		The appropriation for Account No. 2504 was \$11,500.00. The estimated liabilities for the year 1914 will amount approximately to \$14,100.00, making necessary an additional transfer of \$2,600.00 to meet this deficiency.	
		The appropriation for Account No. 2510 was \$110,000.00. The estimated liabilities for the year 1914 will amount approximately to \$118,000.00, making necessary an additional transfer of \$8,000.00 to meet this deficiency.	
		The appropriation for Account No. 2517 was \$350,000.00. The estimated liabilities for the year 1914 will amount approximately to \$369,000.00, making necessary an additional transfer of \$19,000.00 to meet this deficiency.	
		The appropriation for Account No. 2520 was \$82,500.00. The estimated liabilities for the year 1914 will amount approximately to \$95,000.00, making necessary an additional transfer of \$12,500.00 to meet this deficiency.	
		The appropriation for Account No. 2535 was \$92,400.00. The estimated liabilities for the year 1914 will amount approximately to \$98,200.00, making necessary an additional transfer of \$5,800.00 to meet this deficiency.	
		The appropriation for Account No. 2536 was \$15,400.00. The estimated liabilities for the year 1914 will amount approximately to \$18,900.00, making necessary an additional transfer of \$3,500.00 to meet this deficiency.	
		The appropriation for Account No. 2537 was \$7,100.00. The estimated liabilities for the year 1914 will amount approximately to \$8,100.00, making necessary an additional transfer of \$1,000.00 to meet this deficiency.	
		The appropriation for Account No. 2543 was \$27,500.00. The estimated liabilities for the year 1914 will amount approximately to \$40,750.00, making necessary an additional transfer of \$13,250.00 to meet this deficiency.	
		The appropriation for Account No. 2561 was \$46,800.00. The estimated liabilities for the year 1914 will amount approximately to \$54,300, making necessary an additional transfer of \$7,500.00 to meet this deficiency.	
		The appropriation for Account No. 2564 was \$102,500.00. The estimated liabilities for the year 1914 will amount approximately to \$113,500.00, making necessary an additional transfer of \$11,000.00 to meet this deficiency.	
		The appropriation for Account No. 2575 was \$15,000.00. The estimated liabilities for the year 1914 will amount approximately to \$33,000.00. Making necessary an additional transfer of \$18,000.00 to meet this deficiency.	
		The appropriation for Account No. 2586 was \$12,000.00. The estimated liabilities for the year 1914 will amount approximately to \$16,000.00, making necessary an additional transfer of \$4,000.00 to meet this balance.	
		The appropriation for Account No. 2589 was \$19,750.00. The estimated liabilities for the year 1914 will amount approximately to \$21,000.00, making necessary an additional transfer of \$1,250.00 to meet this deficiency.	
		The appropriation for Account No. 2593 was \$11,000.00. The estimated liabilities for the year 1914 will amount approximately to \$12,000.00, making necessary an additional transfer of \$1,000.00 to meet this deficiency.	
		The appropriation for Account No. 2595 was \$3,300.00. The estimated liabilities for the year 1914 will amount approximately to \$4,300.00, making necessary an additional transfer of \$1,000.00 to meet this deficiency.	
		The appropriation for Account No. 2598 was \$6,000. The estimated liabilities for the year 1914 will amount approximately to \$7,000, making necessary an additional transfer of \$1,000 to meet this deficiency.	
		The appropriation for Account No. 2603 was \$4,000. The estimated liabilities for the year 1914 will amount approximately to \$4,500, making necessary an additional transfer of \$500 to meet this deficiency.	
		The appropriation for Account No. 2604 was \$84,776. The estimated liabilities for the year 1914 will amount approximately to \$123,776, making necessary an additional transfer of \$39,000 to meet this deficiency.	
		The appropriation for Account No. 2607 was \$1,800. The estimated liabilities for the year 1914 will amount approximately to \$2,500, making necessary an additional transfer of \$700 to meet this deficiency.	
		The appropriation for Account No. 2600 was \$35,000. The estimated liabilities for the year 1914 will amount approximately to \$42,000, making necessary an additional transfer of \$7,000 to meet this deficiency.	
		The large amounts asked for transfer in connection with a number of accounts previously listed are virtually a readjustment based on the amounts now being earned	

by the institutions referred to, and these adjustments are due mainly to the two following reasons:

First—Owing to the change of rates for various classes of inmates which went into effect on January 1, 1914, it was impossible when making up the 1914 Budget to estimate as closely as heretofore on the earning capacity of the various institutions.

Second—The policy of the new 1914 administration of the Department of Public Charities being different from the former administration as to the acceptance and discharge of inmates, there was no means of anticipating the expenditures at the time the Budget was compiled, which resulted in many institutions earning more and others earning less than originally estimated as a basis for expenses.

In order to provide the \$251,425 required to meet the foregoing charges, unencumbered appropriation balances are available in the following accounts viz.:

2452 Association for Befriending Children and Young Girls (House of the Holy Family)	\$500 00
2457 Beth David Hospital	2,000 00
2460 Brooklyn Nursery and Infants' Hospital	1,000 00
2461 Brooklyn Hospital	5,000 00
2465 Brooklyn Home for Consumptives	3,000 00
2471 Brooklyn Eastern District Dispensary and Hospital	2,000 00
2472 Colored Orphan Asylum and Association for the Benefit of Colored Children in the City of New York	3,000 00
2473 Columbus Hospital	2,500 00
2477 Children's Aid Society	2,200 00
2478 Catholic Home Bureau	3,300 00
2485 German Odd Fellows' Home and Orphan Asylum	500 00
2486 German Hospital and Dispensary	7,000 00
2493 Hope Farm	2,000 00
2494 House of St. Giles the Cripple	3,000 00
2495 House of the Good Shepherd	2,000 00
2496 Har Moriah Hospital	1,000 00
2497 Hospital for Deformities and Joint Diseases	2,000 00
2500 Industrial School Association of Brooklyn Eastern District	1,000 00
2501 Italian Hospital of the Borough of Manhattan	3,500 00
2508 Lutheran Hospital Association (City of New York and Vicinity)	1,800 00
2509 Lincoln Hospital and Home	10,000 00
2513 Maternity of the Long Island College Hospital	500 00
2514 Mary Immaculate Hospital	3,000 00
2515 Misericordia Hospital	1,800 00
2516 Manhattan Eye, Ear and Throat Hospital	3,000 00
2518 New York Juvenile Asylum	1,500 00
2521 New York Eye and Ear Infirmary	5,000 00
2522 New York Post-Graduate Medical School and Hospital	5,000 00
2526 New York Polyclinic Medical School and Hospital	3,500 00
2527 New York Homeopathic Medical College and Flower Hospital	4,000 00
2528 New York Infirmary for Women and Children	2,250 00
2530 Norwegian Lutheran Deaconesses' Home and Hospital	1,700 00
2532 New York Magdalen Home	2,000 00
2538 Peabody Home for Aged and Indigent Women	500 00
2541 Rockaway Beach Hospital and Dispensary	500 00
2545 St. Christopher's Hospital for Babies	1,300 00
2546 St. Mary's General Hospital of the City of Brooklyn	1,000 00
2547 St. Peter's Hospital	4,000 00
2548 St. Catharine's Hospital	6,000 00
2549 Society for the Aid of Friendless Women and Children	500 00
2550 St. John's Long Island City Hospital	12,000 00
2554 St. Vincent's Hospital of The City of New York	4,350 00
2556 Sydenham Hospital	1,000 00
2557 St. Joseph's Hospital (New York City)	15,000 00
2558 St. Francis Hospital	27,000 00
2560 St. Agatha Home for Children	9,000 00
2563 St. Germain's Home for Juvenile Delinquents (Branch of House of the Good Shepherd)	26,000 00
2566 Seton Hospital, New York City	5,000 00
2567 St. Agnes Hospital for Crippled and Atypical Children	2,000 00
2568 St. Vincent's Hospital (Borough of Richmond)	4,750 00
2569 The Hospital of the Holy Family	1,200 00
2570 The Convent of the Sisters of Mercy in Brooklyn	3,000 00
2571 The New York Society for the Relief of the Ruptured and Crippled	6,500 00
2572 The Ozanam Home for Friendless Women	1,000 00
2573 The Children's Home at Mineola, N. Y.	800 00
2574 The Babies' Hospital of The City of New York	500 00
2578 The Jewish Hospital	4,500 00
2579 The Societe Francaise de Bienfaisance	2,175 00
2582 The New York Throat, Nose and Lung Hospital	1,500 00
2585 The Philanthropin Hospital	1,500 00
2588 The Brooklyn Eye and Ear Hospital	2,500 00
2591 The Swedish Hospital in Brooklyn	500 00
2592 Volunteer Hospital	3,000 00
2596 Washington Heights Hospital	1,200 00
2602 Berkshire Industrial Farm	200 00
2605 New York Hospital	9,900 00
Total	\$251,425 00

The adoption of the attached resolution approving the transfers in the amounts indicated in the foregoing report is hereby recommended.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of Section 237 of the Greater New York Charter, hereby approves the transfer of funds appropriated to charitable institutions of the City of New York for the year 1914, as follows:

FROM	
2452 Association for Befriending Children and Young Girls (House of the Holy Family)	\$500 00
2457 Beth David Hospital	2,000 00
2460 Brooklyn Nursery and Infants' Hospital	1,000 00
2461 Brooklyn Hospital	5,000 00
2465 Brooklyn Home for Consumptives	3,000 00
2471 Brooklyn Eastern District Dispensary and Hospital	2,000 00
2472 Colored Orphan Asylum and Association for the Benefit of Colored Children in the City of New York	3,000 00
2473 Columbus Hospital	2,500 00
2477 Children's Aid Society	2,200 00
2478 Catholic Home Bureau	3,300 00
2485 German Odd Fellows' Home and Orphan Asylum	500 00
2486 German Hospital and Dispensary	7,000 00
2493 Hope Farm	2,000 00
2494 House of St. Giles the Cripple	3,000 00
2495 House of the Good Shepherd	2,000 00
2496 Har Moriah Hospital	1,000 00
2497 Hospital for Deformities and Joint Diseases	2,000 00
2500 Industrial School Association of Brooklyn Eastern District	1,000 00
2501 Italian Hospital of the Borough of Manhattan	3,500 00
2508 Lutheran Hospital Association (City of New York and Vicinity)	1,800 00
2509 Lincoln Hospital or Home	10,000 00
2513 Maternity of the Long Island College Hospital	500 00
2514 Mary Immaculate Hospital	3,000 00
2515 Misericordia Hospital	1,800 00
2516 Manhattan Eye, Ear and Throat Hospital	3,000 00
2518 New York Juvenile Asylum	1,500 00
2521 New York Eye and Ear Infirmary	5,000 00
2522 New York Post Graduate Medical School and Hospital	5,000 00
2526 New York Polyclinic Medical School and Hospital	3,500 00
2527 New York Homeopathic Medical College and Flower Hospital	4,000 00
2528 New York Infirmary for Women and Children	2,250 00
2530 Norwegian Lutheran Deaconesses Home and Hospital	1,700 00
2532 New York Magdalen Home	2,000 00

2538 Peabody Home for Aged and Indigent Women	500 00
2541 Rockaway Beach Hospital and Dispensary	500 00
2545 St. Christopher's Hospital for Babies	1,300 00
2546 St. Mary's General Hospital of the City of Brooklyn	1,000 00
2547 St. Peter's Hospital	4,000 00
2548 St. Catharine's Hospital	6,000 00
2549 Society for the Aid of Friendless Women and Children	500 00
2550 St. John's Long Island City Hospital	12,000 00
2554 St. Vincent's Hospital of The City of New York	4,350 00
2556 Sydenham Hospital	1,000 00
2557 St. Joseph's Hospital (New York City)	15,000 00
2558 St. Francis Hospital	27,000 00
2560 St. Agatha's Home for Children	9,000 00
2563 St. Germain's Home for Juvenile Delinquents (Branch of House of the Good Shepherd)	26,000 00
2566 Seton Hospital, New York City	5,000 00
2567 St. Agnes Hospital for Crippled and Atypical Children	2,000 00
2568 St. Vincent's Hospital (Borough of Richmond)	4,750 00
2569 The Hospital of the Holy Family	1,200 00
2570 The Convent of the Sisters of Mercy in Brooklyn	3,000 00
2571 The New York Society for the Relief of the Ruptured and Crippled	6,500 00
2572 The Ozanam Home for Friendless Women	1,000 00
2573 The Children's Home at Mineola, N. Y.	800 00
2574 The Babies' Hospital of The City of New York	500 00
2578 The Jewish Hospital	4,500 00
2579 The Societe Francaise de Bienfaisance	2,175 00
2582 The New York Throat, Nose and Lung Hospital	1,500 00
2585 The Philanthropin Hospital	1,500 00
2588 The Brooklyn Eye and Ear Hospital	2,500 00
2591 The Swedish Hospital in Brooklyn	500 00
2592 Volunteer Hospital	3,000 00
2596 Washington Heights Hospital	1,200 00
2602 Berkshire Industrial Farm	200 00
2605 New York Hospital	9,900 00
Total	\$251,425 00

to

2450 Asylum of the Sisters of St. Dominic	\$10,000 00
2453 American Female Guardian Society	2,000 00
2454 Brooklyn Training School and Home for Young Girls	1,075 00
2456 Brooklyn Industrial School Association and Home for Destitute Children	1,550 00
2458 Brooklyn Home for Blind, Crippled and Defective Children	5,200 00
2462 Bushwick Hospital	1,000 00
2466 Brooklyn Childrens Aid Society	3,700 00
2469 Brooklyn Hebrew Orphan Asylum	11,000 00
2480 Dominican Convent of Our Lady of the Rosary	7,000 00
2481 Flushing Hospital and Dispensary	4,000 00
2482 Five Points House of Industry	6,400 00
2487 Good Counsel Training School for Young Girls	2,600 00
2488 Hebrew Infant Asylum of the City of New York	15,500 00
2489 Hebrew Sheltering Guardian Society	10,000 00
2491 House of Calvary	1,000 00
2492 House of Mercy	1,000 00
2499 Institution of Mercy	10,500 00
2502 International Sunshine Branch for the Blind	300 00
2504 Jewish Maternity Hospital	2,600 00
2510 Missionary Sisters Third Order of St. Francis	8,000 00
2517 New York Catholic Protectory	19,000 00
2520 New York Nursery and Childs Hospital	12,500 00
2535 Orphan Home (Brooklyn)	5,800 00
2536 Orphan Asylum Society of the City of Brooklyn	3,500 00
2537 Ottilie Orphan Asylum	1,000 00
2543 Roman Catholic House of the Good Shepherd	13,250 00
2561 St. Michaels Home	7,500 00
2564 St. Malachys Home	11,000 00
2575 The Society of the Lying-In Hospital of the City of New York	18,000 00
2586 The Sloane Hospital for Women	4,000 00
2589 The S. R. Smith Infirmary	1,250 00
2593 Williamsburgh Hospital	1,000 00
2595 Wayside Home	1,000 00
2598 Catholic Institute for the Blind	1,000 00
2603 Blythedale Home for Tubercular Crippled Children	500 00
2604 Montefiore Home	39,000 00
2607 Catholic Guardian Society	700 00
2600 Vocational Training	7,000 00
Total	\$251,425 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the schedules as revised for Charitable Institutions for the year 1914 as follows:

2452 Association for Befriending Children and Young Girls (House of the Holy Family)	\$10,500 00
2457 Beth David Hospital	1,350 00
2460 Brooklyn Nursery and Infants' Hospital	10,300 00
2461 Brooklyn Hospital	17,000 00
2465 Brooklyn Home for Consumptives	26,000 00
2471 Brooklyn Eastern District Dispensary and Hospital	8,000 00
2472 Colored Orphan Asylum and Association for the Benefit of Colored Children in the City of New York	26,000 00
2473 Columbus Hospital	11,500 00
2477 Children's Aid Society	62,800 00
2478 Catholic Home Bureau	11,700 00
2485 German Odd Fellows' Home and Orphan Asylum	8,300 00
2486 German Hospital and Dispensary	17,000 00
2493 Hope Farm	23,000 00
2494 House of St. Giles the Cripple	5,000 00
2495 House of the Good Shepherd	36,500 00
2496 Har Moriah Hospital	6,250 00
2497 Hospital for Deformities and Joint Diseases	5,800 00
2500 Industrial School Association of Brooklyn Eastern District	35,500 00
2501 Italian Hospital of the Borough of Manhattan	9,000 00
2508 Lutheran Hospital Association (City of New York and Vicinity)	450 00
2509 Lincoln Hospital or Home	60,750 00
2513 Maternity of the Long Island College Hospital	2,000 00
2514 Mary Immaculate Hospital	9,700 00
2515 Misericordia Hospital	22,200 00
2516 Manhattan Eye, Ear and Throat Hospital	10,000 00
2518 New York Juvenile Asylum	95,500 00
2521 New York Eye and Ear Infirmary	13,500 00
2522 New York Post Graduate Medical School and Hospital	25,000 00
2526 New York Polyclinic Medical School and Hospital	6,000 00
2527 New York Homeopathic Medical College and Flower Hospital	14,500 00
2528 New York Infirmary for Women and Children	4,500 00
2530 Norwegian Lutheran Deaconesses Home and Hospital	11,000 00
2532 New York Magdalen Home	15,200 00
2538 Peabody Home for Aged and Indigent Women	3,500 00
2541 Rockaway Beach Hospital and Dispensary	5,300 00
2545 St. Christopher's Hospital for Babies	2,700 00
2546 St. Mary's General Hospital of the City of Brooklyn	26,000 00
2547 St. Peter's Hospital	38,100 00
2548 St. Catharine's Hospital	27,000 00

2549	Society for the Aid of Friendless Women and Children.....	6,000 00
2550	St. John's Long Island City Hospital.....	28,500 00
2554	St. Vincent's Hospital of The City of New York.....	48,000 00
2556	Suydenham Hospital.....	8,000 00
2557	St. Joseph's Hospital (New York City).....	95,500 00
2558	St. Francis Hospital.....	26,000 00
2560	St. Agatha's Home for Children.....	91,400 00
2563	St. Germain's Home for Juvenile Delinquents (Branch of House of the Good Shepherd).....	26,250 00
2566	Seton Hospital, New York City.....	132,500 00
2567	St. Agnes Hospital for Crippled and Atypical Children.....	40,000 00
2568	St. Vincent's Hospital (Borough of Richmond).....	34,000 00
2569	The Hospital of the Holy Family.....	14,570 00
2570	The Convent of the Sisters of Mercy in Brooklyn.....	192,000 00
2571	The New York Society for the Relief of the Ruptured and Crippled.....	19,500 00
2572	The Ozanam Home for Friendless Women.....	4,500 00
2573	The Children's Home at Mineola, N. Y.....	2,500 00
2574	The Babies' Hospital of The City of New York.....	6,500 00
2578	The Jewish Hospital.....	38,500 00
2579	The Societe Francaise de Bienfaisance.....	4,575 00
2582	The New York Throat, Nose and Lung Hospital.....	1,300 00
2585	The Philanthropin Hospital.....	1,900 00
2588	The Brooklyn Eye and Ear Hospital.....	6,250 00
2591	The Swedish Hospital in Brooklyn.....	6,500 00
2592	Volunteer Hospital.....	3,800 00
2596	Washington Heights Hospital.....	4,400 00
2602	Berkshire Industrial Farm.....	1,000 00
2605	New York Hospital.....	42,636 00
2650	Asylum of the Sisters of St. Dominic.....	104,000 00
2453	American Female Guardian Society.....	47,750 00
2454	Brooklyn Training School and Home for Young Girls.....	7,125 00
2456	Brooklyn Industrial School Association and Home for Destitute Children.....	32,350 00
2458	Brooklyn Home for Blind, Crippled and Defective Children.....	44,200 00
2462	Bushwick Hospital.....	4,900 00
2466	Brooklyn Children's Aid Society.....	20,200 00
2469	Brooklyn Hebrew Orphan Asylum.....	94,600 00
2480	Dominican Convent of Our Lady of the Rosary.....	141,000 00
2481	Flushing Hospital and Dispensary.....	18,000 00
2482	Five Points House of Industry.....	40,000 00
2487	Good Counsel Training School for Young Girls.....	17,600 00
2488	Hebrew Infant Asylum of the City of New York.....	54,000 00
2489	Hebrew Sheltering Guardian Society.....	139,000 00
2491	House of Calvary.....	13,000 00
2492	House of Mercy.....	9,800 00
2499	Institution of Mercy.....	116,200 00
2502	International Sunshine Branch for the Blind.....	8,800 00
2504	Jewish Maternity Hospital.....	14,100 00
2510	Missionary Sisters Third Order of St. Francis.....	118,000 00
2517	New York Catholic Protectors.....	369,000 00
2520	New York Nursery and Child's Hospital.....	95,000 00
2535	Orphan Home (Brooklyn).....	98,200 00
2536	Orphan Asylum Society of the City of Brooklyn.....	18,900 00
2537	Ottile Orphan Asylum.....	8,100 00
2543	Roman Catholic House of the Good Shepherd.....	40,750 00
2561	St. Michael's Home.....	54,300 00
2564	St. Malachy's Home.....	113,500 00
2575	The Society of the Lying-In Hospital of the City of New York.....	33,000 00
2586	The Sloane Hospital for Women.....	16,000 00
2589	The S. R. Smith Infirmary.....	21,000 00
2593	Williamsburgh Hospital.....	12,000 00
2595	Wayside Home.....	4,300 00
2598	Catholic Institute for the Blind.....	7,000 00
2603	Blythedale Home for Tubercular Crippled Children.....	4,500 00
2604	Montefiore Home.....	123,776 00
2607	Catholic Guardian Society.....	2,500 00
2600	Vocational Training.....	42,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Parks, Boroughs of Manhattan and Richmond—Amending Issue of Special Revenue Bonds (Cal. No. 53).

(On November 13, 1914 (No. 125), the resolution of the Board of Aldermen in this matter was referred to the Comptroller.)

The Secretary presented a resolution adopted on October 27, 1914, by the Board of Aldermen amending its resolution adopted February 27, 1912, authorizing the Comptroller to issue Special Revenue Bonds in the sum of \$13,518.40, to be used by the Commissioner of Parks, Boroughs of Manhattan and Richmond, for construction of rail fences around Washington Square, Madison Square and Union Square, by striking therefrom the words *Washington Square, Madison Square and Union Square* and inserting in lieu thereof the words *around parks throughout the city*, and further that *all obligations incurred hereunder to be contracted for on or before February 1, 1915*; and the following report of the Comptroller recommending approval thereof:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 17, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—On October 27, 1914, the Board of Aldermen adopted the following resolution:

"Resolved, That the following resolution adopted February 27, 1912, and received from His Honor the Mayor, March 12, 1912, without his approval or disapproval thereof, to wit:

"Resolved, That in pursuance of the provisions of Subdivision 8 of Section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of thirteen thousand five hundred and eighteen dollars and forty cents (\$13,518.40), the proceeds whereof to be used by the Commissioner of Parks, Boroughs of Manhattan and Richmond, for the purposes of providing means for the construction of pipe rail fences around Washington Square, Madison Square and Union Square."

"—be and the same is hereby amended by striking therefrom the words *Washington Square, Madison Square and Union Square*, and inserting in lieu thereof the words *around parks throughout the city*, and further that *all obligations incurred hereunder to be contracted for on or before February 1, 1915*."

In reference to the foregoing, it is reported as follows:

The original resolution referred to dated February 27, 1912, was approved and concurred in by the Board of Estimate and Apportionment on April 11, 1912. The construction of the pipe rail fences around Washington, Madison and Union Square Parks was completed under contract at a cost of \$12,086.42, leaving an unexpended balance of \$1,431.98. The Commissioner of Parks, Boroughs of Manhattan and Richmond, now requests that he be authorized to spend this balance of the appropriation on the construction of pipe rail fences around parks throughout the City.

The Superintendent of Parks states that it is intended to utilize the unexpended balance of \$1,431.98 referred to in the construction and erection of a pipe rail fence in Central Park, between Lenox Avenue and 110th Street and Fifth Avenue and 102nd Street. The section of the park where it is proposed to erect this fence is located adjacent to a thickly populated district of the City, and without fences it is almost impossible to preserve the lawns from trespassers. In this respect it is estimated that at least 3,000 feet of iron pipe rail fence will be required at a cost of approximately \$840. Of the original balance of funds appropriated there will then remain the sum of \$591.98, which it is proposed to utilize in the construction of pipe rail fences in one of the smaller parks.

The adoption of the attached resolution approving and concurring in the resolution adopted by the Board of Aldermen on October 27, 1914, is therefore recommended. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following was offered:

Whereas, The Board of Aldermen, at its meeting held October 27, 1914, adopted the following resolution:

"Resolved, That the following resolution, adopted February 27, 1912, and received from His Honor, the Mayor, March 12, 1912, without his approval or disapproval thereof, to wit:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of thirteen thousand five hundred and eighteen dollars and forty cents (\$13,518.40), the proceeds whereof to be used by the Commissioner of Parks, Boroughs of Manhattan and Richmond, for the purpose of providing means for the construction of pipe rail fences around Washington Square, Madison Square and Union Square."

"—be and the same is hereby amended by striking therefrom the words *Washington Square, Madison Square and Union Square*, and inserting in lieu thereof the words *around parks throughout the city*, and further, that all obligations incurred hereunder to be contracted for on or before February 1, 1915";

—therefore be it

Resolved, That the resolution adopted by the Board of Estimate and Apportionment April 11, 1912, which reads as follows:

"Resolved, That the resolution adopted by the Board of Aldermen on February 27, 1912, requesting an issue of special revenue bonds in the sum of thirteen thousand five hundred and eighteen dollars and forty cents (\$13,518.40), the proceeds whereof to be used by the Commissioner of Parks, Boroughs of Manhattan and Richmond, for the purpose of providing means for the construction of pipe rail fences around Washington Square, Madison Square and Union Square, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, provided, that no portion of said proceeds shall be used for the payment of services of departmental employees, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds to an amount not exceeding thirteen thousand five hundred and eighteen dollars and forty cents (\$13,518.40), redeemable from the tax levy of the year succeeding the year of their issue."

—be and the same is hereby amended by striking therefrom the words *Washington Square, Madison Square and Union Square*, and inserting in place thereof the words *around parks throughout the city*, and adding thereto the words and figures *"obligations incurred hereunder to be contracted for on or before February 1, 1915"*.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Finance—Issue of Special Revenue Bonds (Cal. No. 54).

The Secretary presented a report of the Comptroller recommending the issue of \$1,100 special revenue bonds (subdivision 8, section 188 of the Charter), the proceeds to be used by the Comptroller for the payment of rent of ten army wagons stored in the Fidelity Storage Warehouse Company's building at No. 107 West 96th Street, Manhattan, for the period from June 1, 1912, to March 31, 1914, being a charge against the County of New York.

(On October 30, 1914 (No. 80-A), the resolution of the Board of Aldermen requesting the appropriation was referred to the Comptroller.)

Which was laid over until November 25, 1914, under Rule 19.

Department of Finance—Issue of Special Revenue Bonds (Cal. No. 55).

The Secretary presented a report of the Comptroller recommending the issue of \$1,500 special revenue bonds (subdivision 8, section 188 of the Charter), the proceeds whereof to be used by the Comptroller for the payment of rent of premises No. 5 West 66th Street, Borough of Manhattan, for the use of the mounted drills of Company A, First Battalion Signal Corps, N. G., N. Y., under lease to the City from May 1st to December 31, 1914, being a charge against the County of New York.

(On October 30, 1914 (No. 80-C), the resolution of the Board of Aldermen requesting the appropriation was referred to the Comptroller.)

Which was laid over until November 25, 1914, under Rule 19.

Public Service Commission for the First District—Issue of Special Revenue Bonds (Cal. No. 56).

The Secretary presented the following report of the Comptroller: Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 11, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—On December 22, 1913, the Public Service Commission for the First District made requisition for the sum of \$2,600,000 for the expenses of the Commission for the year 1914, as follows:

1. Rental.....	\$28,000 00
2. Telephone.....	7,500 00
3. Special services.....	30,000 00
4. Stationery and printing.....	60,000 00
5. General supplies.....	100,000 00
6. Executive, engineering, law and statistics, gas and transportation departments.....	2,349,500 00
7. Contingencies.....	25,000 00
	\$2,600,000 00

The appropriations in revenue bonds for the Commission during 1913 were as follows:

1. Expenses, 1913.....	\$1,765,000 00
2. Additional appropriation.....	200,000 00
	\$1,965,000 00

The following table shows the amount of increase requested:

Expenses, 1914.....	\$2,600,000 00
Expenses, etc., 1913.....	1,965,000 00
	\$635,000 00

Increase for 1914.....

The reasons for the increases are detailed as follows:

Executive, Engineering, Law, Statistics, Gas and Transportation Departments.

The increase under this head is \$769,229, of which about \$135,000 is for salary increases and new positions in the regulatory divisions of the Commission. The balance of \$634,229 is due to the additional cost of engineering supervision of work planned for 1914 under the dual rapid transit agreements.

Rental, Telephone, Special Services, Stationery and Printing, General Supplies and Contingencies.

Under these latter headings, there is a decrease, as compared with 1913, of \$135,000, about one-half of which was due to the fact that, contemplating at the time this request was made to move shortly to quarters in the Municipal Building, the Commission expected a large saving in the item of rent.

Under the agreement for the construction of the dual rapid transit system the supervising expenses of the Commission, estimated at \$2,100,000, are to be charged to the cost of construction. All of the increase requested is stated by the Commission to be included in this item.

The requisition is made pursuant to the provisions of section 10 of chapter 4 of the Laws of 1891, commonly known as the Rapid Transit Act. The section reads in part:

"Such appropriation shall be made forthwith upon presentation of a requisition from the Public Service Commission, which shall state the purposes for which such moneys are required by the Commission."

Of the amount of \$2,600,000 requested by the Public Service Commission on December 23, 1913, your board has heretofore authorized \$2,300,000. Inasmuch as the authorization by your board is mandatory on the request of the Public Service Commission, I would recommend the adoption of the accompanying resolution authorizing the issuance of additional Special Revenue Bonds to the amount of \$300,000. This authorization, with the \$2,300,000 amount previously authorized by your board, will complete the amount of \$2,600,000 requested by the Commission.

Respectfully submitted,

WM. A. PRENDERGAST, Comptroller.

On motion, Rule 19 was suspended in this matter and the following resolution was offered:

Resolved, That, pursuant to the provisions of section 10, chapter 4 of the Laws of 1891, and section 14, chapter 429 of the Laws of 1907, as amended, and on account of the requisition of the Public Service Commission for the First District, duly made by the Chairman and Secretary thereof on December 22, 1913, for two million six hundred thousand dollars (\$2,600,000), to meet the requirements of a scheduled appropriation, the Board of Estimate and Apportionment hereby approves an issue of special revenue bonds to an amount not exceeding three hundred thousand dollars (\$300,000) to pay the expenses of the Public Service Commission for the First District for the year ending December 31, 1914, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of section 10, chapter 4 of the Laws of 1891, and section 14, chapter 429 of the Laws of 1907, as amended, to issue Special Revenue Bonds of The City of New York to an amount not exceeding three hundred thousand dollars (\$300,000) redeemable from the tax levy of the year succeeding the year of their issue, the proceeds to be applied to the purpose aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

District Attorney, Richmond County—Issue of Special Revenue Bonds (Cal. No. 57).

The Secretary presented a report of the Comptroller recommending the issue of \$250 special revenue bonds (Section 1542 of the Charter) to provide funds for special expenses of the Office of the District Attorney of Richmond County in the prosecution of certain criminal actions; also recommending the modification of schedule No. 3666 to include this additional allowance.

(On September 21, 1914 (Cal. No. 122), the communication from the District Attorney, Richmond County, requesting this appropriation, was referred to the Comptroller.)

Which was laid over until November 25, 1914, under Rule 19.

Department of Finance—Issue of Corporate Stock to Replenish Fund for Street and Park Openings (Cal. No. 58).

The Secretary presented a report of the Comptroller relative to the liquidation of the City's indebtedness to the Fund for Street and Park Openings caused by the imposition upon the City of a portion of the costs and expenses of certain street opening proceedings, recommending the issue of \$91,831.39 corporate stock pursuant to provisions of section 174 of the Charter, said amount to be placed to the credit of the Fund for Street and Park Openings.

Which was laid over until November 25, 1914, under Rule 19.

Department of Finance—Issue of Corporate Stock to Replenish Street Improvement Fund (Cal. No. 59).

The Secretary presented a report of the Comptroller submitting a statement showing the amount payable by The City of New York to the Street Improvement Fund accrued from July 1 to September 30, 1914, including assessments vacated and cancelled during the same period, recommending an issue of \$215,279.11 corporate stock in accordance with the provisions of section 422 of the Charter, to be placed to the credit of said fund.

Which was laid over until November 25, 1914, under Rule 19.

Department of Finance—Issue of Corporate Stock to Provide for the Payment of Assessments on the City for Local Improvements (Cal. No. 60).

The Secretary presented a report of the Comptroller relative to the payment to the several assessment funds for local improvements of the City's obligation on account of assessments imposed against property of the City, recommending the issue of \$163,389.67 corporate stock in pursuance of the provisions of section 176 of the Charter, to provide for the payment of assessments for local improvements from July 1 to September 30, 1914, levied directly upon the property of The City of New York.

Which was laid over until November 25, 1914, under Rule 19.

Department of Finance—Issue of Corporate Stock (Cal. No. 61).

The Secretary presented a report of the Comptroller, submitting resolution authorizing the issue of \$16,000 corporate stock, pursuant to the provisions of section 2, chapter 737 of the Laws of 1911, as amended, to provide for the payment of the award made by the Board of Assessors to Nathan Marcus for damages sustained, as the owner of property fronting upon the streets approaching the Manhattan Bridge in the Borough of Manhattan.

Which was laid over until November 25, 1914, under Rule 19.

William D. Moore & Sons—Claim of (Cal. No. 62).

The Secretary presented the following report of the Deputy and Acting Comptroller:

City of New York, Department of Finance, Comptroller's Office, November 13, 1914.

To the Honorable the Board of Estimate and Apportionment:

Sirs—Under and pursuant to the provisions of section 246 of the Greater New York Charter, I hereby certify that an application has been presented by William D. Moore, doing business under the name of William D. Moore & Sons, for the sum of \$2,609, alleged to be due for additional labor and materials furnished in connection with the erection of a new building for an engine company and a hook and ladder company at Stapleton, Borough of Richmond, under a contract dated September 23, 1913; that in excavating for the foundation for said building, several continuously flowing springs were encountered, which necessitated a modification of the plans so as to provide for a reinforced concrete foundation; that upon the request of the Fire Commissioner, the applicant submitted an estimate of \$2,609 for doing said additional work, which was accepted in writing by the Fire Commissioner on November 21, 1913; that in accordance with the written directions of the Fire Commissioner, the applicant proceeded to do the said additional work, and expended in the performance thereof the sum of \$3,678.71, or \$969.71 in excess of the agreed price therefor; that the contract for the erection of said building contained no provision authorizing additional work thereunder, and no appropriation to cover the cost of such additional work had been made; that said order was, therefore, illegal and invalid as against the City, but which, notwithstanding, in my judgment, it is equitable and proper for the City to pay the money value of the benefit which the City has received by reason of such additional work; that the reasonable value of said benefit is the sum of \$2,609; that said sum of \$2,609 should be paid to the applicant in full satisfaction of said claim upon the execution of a full release in such form as shall be approved by the Corporation Counsel. Respectfully,

ALEX. BROUGH, Deputy and Acting Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 246 of the Greater New York Charter, as amended, hereby determines that the City of New York has received a benefit and is justly and equitably obligated to pay William D. Moore, doing business as William D. Moore & Sons, without interest, the sum of two thousand six hundred and nine dollars (\$2,609) for additional work in connection with the erection of a new building for an Engine Company and a Hook and Ladder Company on the south side of Broad Street, east of Quinn Street, Stapleton, Borough of Richmond, under contract dated September 23, 1913. That the said sum should be paid in full satisfaction of the claim presented by the said William D. Moore; that the interests of the City will be best subserved by the adjustment of said claim in said sum; that payment thereof shall only be made upon the execution by the said William D. Moore of a full release in favor of the City in such form as shall be approved by the Corporation Counsel, and that the Comptroller is hereby authorized to pay said sum from the account "Revenue Bond Fund for Claims, Miscellaneous, R. C. L. 11."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

From Bureau of the Board.

Bureau of Public Improvements.

Engineer's Financial Statement (Cal. No. 63).

The Secretary presented the following report of the Chief Engineer of the Board, which was ordered printed in the Minutes and filed:

Financial Statement No. D-17.

November 16, 1914.

Hon. JOHN PURROY MITCHELL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—I beg to submit the following tabular statement showing the estimated cost of physical improvements and the number of opening proceedings for each borough and the total for all boroughs, which have been authorized by the Board of Estimate and Apportionment since January 1, 1913, together with the physical improvements for which preliminary authorization is now outstanding:

Surface and Subsurface Improvements Given Final Authorization in 1913 and 1914.

Borough.	Surface Improvements.				Sewer Improvements.			
	Total, 1913.		1914 to Date.		Total, 1913.		1914 to Date.	
	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.
Manhattan	22	\$320,600 00	11	\$115,600 00	11	\$80,700 00	8	\$69,400 00
Brooklyn	336	2,557,600 00	99	665,400 00	*153	2,538,700 00	54	491,850 00
The Bronx	78	1,822,300 00	23	310,100 00	34	1,731,500 00	15	149,600 00
Queens	69	791,100 00	37	516,400 00	71	2,126,600 00	22	206,400 00
Richmond	9	45,700 00	4	8,500 00	13	59,800 00	5	7,000 00
Total	514	\$5,537,300 00	174	\$1,616,000 00	*282	\$6,537,300 00	104	\$924,250 00

*Includes one improvement for which only partial authorization has been given.

Surface and Subsurface Improvements for Which Preliminary Authorization Is Now Outstanding.

Borough.	Surface Improvements.		Sewer Improvements.	
	No.	Amount.	No.	Amount.
Manhattan	4	\$232,300 00	14	\$372,500 00
Brooklyn	11	89,600 00	*10	1,905,300 00
The Bronx	8	225,300 00	5	1,271,600 00
Queens	17	358,500 00	35	1,104,000 00
Richmond	..	..	1	500 00
Total	40	\$905,700 00	*65	\$4,653,900 00

*Includes two improvements for which partial final authorization has been given.
Street and Park Opening Proceedings Authorized in 1913 and 1914.

Borough.	Total, 1913.		1914 to Date.	
	Number of Streets and Parks Affected.	Number of Proceedings.	Number of Streets and Parks Affected.	Number of Proceedings.
Manhattan	5	4	1	1
Brooklyn	35	24	5	2
The Bronx	31	23	1	1
Queens	35	27	8	5
Richmond	2	2	..	..
Total	108	80	15	9

A comparison of the estimated value of physical improvements for which final authorization has been given since January 1, 1914, and of all outstanding preliminary authorizations, with the value of the assessment lists relating to authorizations since January 1, 1902, returned in 1914, up to and including November 11, and the 1914 collections up to and including November 11, shows as follows:

Borough.	Authorizations.						Assessment Lists Returned.	Collections.
	Outstanding Preliminary Authorizations.		Final Authorizations in 1914.		Total.			
	No.	Amount.	No.	Amount.	No.	Amount.		
Manhattan ...	18	\$604,800 00	19	\$185,000 00	37	\$789,800 00	\$320,056 69	\$300,819 50
Brooklyn	21	1,994,900 00	153	1,157,250 00	174	3,152,150 00	1,787,939 78	2,408,772 05
The Bronx	13	1,496,900 00	38	459,700 00	51	1,956,600 00	2,425,365 35	1,471,283 20
Queens	52	1,462,500 00	59	722,800 00	111	2,185,300 00	1,643,337 10	1,176,620 82
Richmond	1	500 00	9	15,500 00	10	16,000 00	66,191 82	282,982 46
Total..	105	\$5,559,600 00	278	\$2,540,250 00	383	\$8,099,850 00	\$6,242,890 74	\$5,640,478 17

Respectfully,

NELSON P. LEWIS, Chief Engineer.

Board of Estimate and Apportionment—Map of The City of New York (Cal. No. 64).

(On August 27, 1914 (No. 185), on the recommendation of the President of the Borough of Manhattan, the Board adopted a resolution authorizing the Secretary of the Board to charge \$2.50 for each map, and that special processed method of reproduction be allowed at cost price, etc.)

The Secretary presented the following report of the Chief Engineer of the Board:

November 16, 1914.

Hon. JOHN PURROY MITCHELL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Under date of July 21, 1914, a report was submitted to the Board of Estimate and Apportionment outlining a plan for the distribution of copies of the map of The City of New York recently prepared in this office among the different branches of the City government and for the sale of the remaining copies.

The report recommended the fixing of various prices depending upon the use to which they were to be put, and proposed that City departments should be supplied with copies consisting of the 35 sheets and index sheet of the map at the scale of two thousand feet to the inch for \$1 a copy, and that copies be sold to the public for \$3 each.

A scale of prices was also suggested for process reproductions, the different departments of the City government being provided with prints at cost, while a substantially higher price be fixed for their sale to the public.

The Board authorized the sale of the lithographed maps at a uniform price of \$2.50 each, and the sale of process reproductions at cost to both City departments and the general public. These maps have now been available for purchase for some weeks, but the plan of charging the same price for them, whether for a single copy or a number of copies, does not work very well. To require one City department to pay to another department \$2.50 for a single copy seems unreasonable, and I believe that the plan originally proposed would be better, viz.: to charge City departments \$1 a set for the lithographed maps, and to charge the general public \$3 a set for the 35 sheets and index sheet; while I can see no objection to selling these lithographed maps in lots of 25 or more at \$2 each in order that map dealers and book stores might sell them at a fair profit.

The sale of prints at cost has not given satisfactory results. Under the present plan dealers in maps and books have bought these prints at cost and are offering them for sale at four times the price charged by the City. The only kind of reproduction thus far called for have been prints on regular white paper. These cost 88 cents each for single copies and 37½ cents each if four copies are ordered at the same time. It does not seem fair that the Board should supply the general public with copies at the same price it charges to City departments. If such a department wishes a single print it must pay 68 cents. If a dealer wishes four prints of the same map he can secure them at 37½ cents each.

I would, therefore, suggest the advisability of making a rate for City Departments of 50 cents for a single sheet and for the general public \$1.25 a single sheet; but in lots of five or more of the same sheet \$1 each. This would allow a small profit, while at present there is an actual loss on every sheet sold if the time of the office force in sending the originals for reproduction and handling the prints is taken into

account. I therefore, recommend that the Board adopt a resolution authorizing the sale of the lithographed maps and the prints at the prices above suggested.

Respectfully,
NELSON P. LEWIS, Chief Engineer.

The President of the Borough of Manhattan moved that the price of lots of 25 maps be fixed at \$2.50 each, instead of \$2 each, as recommended by the Chief Engineer. Which motion failed of adoption by the following vote:

Affirmative—The President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, The Bronx, Queens and Richmond—8.

Negative—The Mayor, the Comptroller and the President of the Borough of Brooklyn—8.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment August 27, 1914, which reads as follows:

"Resolved, That the Chief Engineer of the Board of Estimate and Apportionment be authorized to have the maps of the City of New York, now being prepared in his office, copyrighted.

"Resolved, That 250 copies of these maps, each consisting of 35 sheets and an index, be furnished, without expense, as follows:

100 copies to members of the Board of Estimate and Apportionment,
50 copies to various departments of the City Government, and
100 copies for the use of the office of the Chief Engineer of the Board.

"Resolved, That additional copies, whether to City Departments or to citizens, and whether in large or small quantities, be furnished at the uniform price of \$2.50 a set.

"Resolved, That copies of single sheets made by processed methods be furnished on request at the cost of reproduction.

"Resolved, That the Secretary of the Board be authorized to sell the maps at the prices above named, the receipts to be turned into the City Treasury."

—be and the same is hereby amended to read as follows:

Resolved, That the Chief Engineer of the Board of Estimate and Apportionment be authorized to have the maps of The City of New York, now being prepared in his office, copyrighted.

Resolved, That 250 copies of these maps, each consisting of 35 sheets and an index, be furnished, without expense, as follows:

100 copies to members of the Board of Estimate and Apportionment,
50 copies to various departments of the City government, and
100 copies for the use of the office of the Chief Engineer of the Board.

Resolved, That additional maps be furnished City departments at one dollar (\$1) a set, and to the general public at three dollars (\$3) a set, except where twenty-five (25) or more sets are purchased by the same party at the same time, when the price shall be two dollars (\$2) a set.

Resolved, That prints of single sheets at a scale of 600 feet to the inch, on regular white paper, be furnished to City departments for public use at fifty cents (50c.) a sheet, and to the general public at the following prices:

One or two prints of the same sheet.....	\$1 25 each
Three prints of the same sheet.....	1 20 each
Four prints of the same sheet.....	1 15 each
Five or more prints of the same sheet.....	1 00 each

For blue prints, the price to the public to be as follows:

One or two prints of the same sheet.....	\$0 55 each
Three prints of the same sheet.....	50 each
Four or more prints of the same sheet.....	45 each

For any of the above prints mounted on muslin, an additional price of fifty cents (50c.) each shall be charged.

Resolved, That the Secretary of the Board be authorized to sell the maps at the prices above named, the receipts to be turned into the City Treasury.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond—14.

Negative—The President of the Borough of Manhattan—2.

East 177th Street and Devoe Avenue to the Easterly Bulkhead Line of the Bronx River, Borough of The Bronx—Acquisition of an Easement for Sewer Purposes (Cal. No. 65).

The Secretary presented a communication dated June 1, 1914, from the Commissioner of Public Works, Borough of The Bronx, transmitting map showing location and laying out of the easement in this proceeding; and the following report of the Chief Engineer of the Board:

Report No. 14134. November 12th, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Commissioner of Public Works, Borough of The Bronx, bearing date of June 1st, 1914, presenting for consideration a map laying out an easement which is needed for sewer purposes extending from the southerly line of East 177th Street at the intersection with Devoe Avenue, to the easterly bulkhead line of Bronx River. There is also transmitted a communication from the Borough President bearing date of November 4th last, requesting that the matter of laying out this easement and acquiring the necessary rights be presented for the consideration of the Board at its next meeting.

The Borough President states that the easement is needed to clear the way for the construction of a storm water overflow from the trunk sewer following the line of East 177th Street, which will serve an area of approximately 800 acres. A Local Board resolution recommending the construction of the sewer referred to is now awaiting the consideration of the Board, and from the accompanying papers it appears that the tributary area has a value of \$13,518,000. The section of the sewer covered by this resolution extends as far north as Rhinelander Avenue, and the cost of its construction is estimated at \$331,100. It might be noted that the acquisition of the easement at East 177th Street and Devoe Avenue will clear the way for the authorization of this improvement excepting only that the estimated cost is considerably greater than the limitation which the Board has placed upon the value of separate contracts. This condition has, however, been brought to the attention of the Borough President.

The area in which an easement is now desired has a width of 40 feet and an average length of about 150 feet. The land, which is entirely unimproved, is partly under water. The great magnitude of the tributary district makes it impracticable to levy an assessment, and it would seem advisable in this case to follow a procedure similar to that under which the pumping station site at Avenue V in the Borough of Brooklyn was acquired.

I would recommend the approval of the map laying out the easement, and in conformity with the procedure referred to would suggest that the Comptroller be authorized to acquire the necessary rights by direct negotiation in case terms satisfactory to him and to the Board can be arranged, with the understanding that the expense will be met through a draft on the Street Improvement Fund, to be collected as a part of the assessment in the first contract affecting any of the related sewers.

Respectfully,
NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of the City of New York hereby approves the map, submitted by the President of the Borough of The Bronx on June 1, 1914, showing the locating and laying out of a sewer easement from the westerly line of Devoe Avenue to the United States Pierhead and Bulkhead Line of the Bronx River (Amendment to Sections 37 and 38), dated May 22, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following was offered:

Whereas, The Board of Estimate and Apportionment of the City of New York adopted a resolution on November 20, 1914, approving a map submitted by the President of the Borough of The Bronx, dated May 22, 1914, showing the locating and laying out of a sewer easement from the westerly line of Devoe Avenue to the United States Pierhead and Bulkhead Line of the Bronx River; be it

Resolved, That the Board of Estimate and Apportionment hereby authorizes and requests the Comptroller of the City of New York to acquire the necessary sewer easement shown on said map, by direct negotiation in case terms satisfactory to him and to the Board can be arranged, with the understanding that the expense will

be met through a draft on the Street Improvement Fund and assessed in the first proceeding affecting any of the related sewers.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Territory Bounded by Hampton Street, Junction Avenue, South Railroad Avenue and Corona Avenue, Borough of Queens—Changing Street Plan (Cal. No. 66).

(In the original report of the Chief Engineer presented at the meeting of October 9, 1914 (Cal. No. 79), it is recommended that the plan be approved, provided that payment is made to the City by the Cord Meyer Company of the sum of \$313.66, and that the Company presents a release of all claims for disbursements under section 1000 of the Charter and an instrument drawn in a form approved by the Corporation Counsel and suitable for filing providing for restricting the property abutting on Corona Avenue on its northerly side to a depth of 100 feet, and on the westerly side of Card place to a depth of 200 feet against use for railroad or freight yard purposes; and that after these conditions have been complied with and the plan has been approved, recommendations will be made for the amendment of the opening proceeding.)

(On November 6, 1914 (Cal. No. 5), there was presented a communication dated October 31, 1914, from the Corporation Counsel, transmitting instrument approved as to form to be executed by the attorneys for the Cord Meyer Company whereby it covenants and agrees with The City of New York to restrict against the use for railroad or freight yard purposes the area outlined by the Chief Engineer in his report.)

The Secretary presented communications from the First Methodist Episcopal Church of Elmhurst, dated November 15, 1914; the Women's Civic Club of Elmhurst, dated November 19, 1914, and petitions signed by several property owners of the Elmhurst Taxpayers' Association requesting that the proposed change be disapproved.

The Secretary also presented a communication from the Corporation Counsel dated November 19, 1914, advising that he has been informed that the Cord Meyer Company is the owner of a portion only of the lands lying within 200 feet of Card Place, and stating that he desires to withdraw the statement in his communication of October 31, 1914, that "the instrument is correct as to form and I transmit the same herewith with my approval." The Corporation Counsel suggests that to make the instrument conform with the facts it be so changed, that beginning with and including the word "all" on the twenty-first line, page 2, and down to and including the word "lying" on the twenty-second line be eliminated and that the following be substituted in place thereof: "so much of the adjoining real property owned by it as lies."

The following supplemental report of the Chief Engineer was presented.

Report No. 14151.

November 16, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—At the meeting of the Board of Estimate and Apportionment held on November 6, 1914, a public hearing was given on the proposed change of the map or plan of The City of New York within the territory bounded by Hampton Street, South Railroad Avenue, Junction Avenue and Corona Avenue, in the Borough of Queens, at the close of which hearing the matter was referred back to the Chief Engineer for further report.

The purpose of the change was to permit the establishment of a small local freight yard along the North Side Division of the Long Island Railroad, and there was a good deal of opposition on the part of property owners in the Elmhurst section to such a project. The purpose of the reference back to the Chief Engineer was that more specific information might be given as to the character of the neighborhood and the advisability of establishing a delivery point for freight at some other location. Since the hearing the City Plan Committee of the Board as well as the Chief Engineer have visited this site. The property on Corona Avenue opposite the proposed yard seems to be almost entirely devoted to business purposes, and while the facilities which would be furnished to those doing business in this neighborhood would undoubtedly be valuable, the residents of the locality are very anxious to prevent the use proposed and they strongly insist that some other location for such a yard be selected. A careful examination of the street plan and of the railroad profile shows that a location nearer Long Island City would probably be impracticable, owing to the fact that the North Side Division crosses Queens Boulevard, passes under the New York Connecting Railroad and joins the main line of the Long Island, which again crosses Queens Boulevard and passes through a well built section to the Sunnyside yard. The establishment of a freight yard at or near this junction of the several lines or along the six tracks of the Main Line below the junction would be impracticable. From Flushing River west the street grades have been so fixed as to pass under the railroad, which would be on embankment, to and including Junction Avenue. From there eastwardly the railroad is to be lowered, so that Hampton Street, the easterly boundary of the tract under consideration, will pass over the railroad; then the railroad again rises so that Broadway will pass under it. It is obvious that the most favorable place to locate a freight delivery yard is where the railroad passes from cut to fill or from fill to cut, so that the disturbance of the topography of the adjacent territory would be reduced to a minimum. In my judgment there is no doubt that this proposed location is naturally adapted to the purposes of such a yard. The only question is the effect of the establishment of such a yard upon the neighborhood. All portions of the City of New York need facilities for the economical handling of freight, and the shorter the haul through the streets of the City the better and cheaper will be the facilities.

A representative of the Cord-Meyer Company has furnished me with five photographs which I think fairly represent the kind of development in the immediate vicinity of the proposed yard. They do not, however, show the residential property within a few blocks of the proposed yard, the owners of which object so strongly to its establishment.

I have also been furnished with a petition, which is addressed to the President of the Borough of Queens, and is signed by some fifty "merchants, property owners and taxpayers," favoring the establishment of the freight yard, and expressing the opinion that this location is suitable. It should be said, however, that the signers of this petition do not appear to own or occupy property on any of the streets bounding the proposed yard, but that their business and their holdings are mostly on Queens Boulevard, Broadway, Grand Street, Court Street and other streets in the Elmhurst section.

My own opinion, gained from a recent inspection of the property, is that facilities of this kind are needed; that the character of the development in the immediate vicinity is not such that it would be injured by them; that there is no other suitable location in the immediate vicinity, which now has a considerable population and which is rapidly growing, and that the objectors are prompted in their opposition by a fear that residential property with several blocks of the proposed yard would be depreciated. Whether their fears would be realized it is impossible to say, but my belief is that the neighborhood, as a whole, would be benefited rather than injured by the provision of better facilities for the distribution of freight.

Respectfully,
NELSON P. LEWIS, Chief Engineer.

Captain C. Marsdon, representing the Elmhurst Taxpayers' Association; Mr. George A. Gregg, Rev. H. B. Belcher, Rev. E. G. McGuffey, Rev. George Rittenhouse and Mr. H. A. Danser, appeared in opposition to, and Mr. Charles G. Meyer, representing the Cord Meyer Development Company, appeared in favor of the proposed change.

On motion the matter was referred to the Committee on City Plan.

Second Street, Between Howell and Jackson Avenues, Borough of Queens—Deeds of Conveyance to the City for Street Purposes (Cal. No. 67).

(On September 21, 1914 (Cal. No. 83), the communication from Messrs. O'Brien, Boardman and Platt, submitting forms of deeds in the matter, were presented and referred to the Chief Engineer for report.)

The Secretary presented the following report of the Chief Engineer:

Report No. 14139.

November 12, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—At the meeting of the Board of Estimate and Apportionment held on September 21, 1914, a communication from Messrs. O'Brien, Boardman and Platt, bearing date of September 11, 1914, requesting that the Corporation Counsel be authorized to enter into an agreement for the acceptance of deeds to two parcels of land lying within the lines of 2nd Street, in the Borough of Queens, was referred to your Engineer for report.

This communication was accompanied by two forms of deeds to be executed by the New York Connecting Railroad Company and the Stuyvesant Real Estate Company, respectively, and by two forms of affidavit of title executed in each case by the real estate agent for the company. These deeds relate to two adjoining parcels on the westerly side of 2nd Street, extending from Jackson Avenue to the center line of Wells Place, comprising a distance of about 400 feet, and the parcels are indicated as having an average width of a little over 23 feet. The width of 2nd Street as laid out upon the City Map and as now being acquired under a proceeding authorized on April 3, 1913, is 60 feet. The Commissioners of Estimate and Assessment in this proceeding filed their oaths on June 29, 1914, and, under the Charter provisions, the acceptance of the deeds must be made subject to the execution of an agreement.

Provision has been made by the Board for the acceptance by the Corporation Counsel of deeds to parcels comprising a width of one-half of the street width or more under terms which would relieve the owners of abutting property from further assessment in the proceeding, other than their proportionate share of the incidental expense previously incurred and their share of the awards for damage to buildings and for change of grade.

The petitioners now state that it would be a hardship to them if their deeds were not accepted for the reason that their ownership did not extend to the center of the street, and for this reason they ask that special authority be given the Corporation Counsel in this case, providing that the deeds are executed and the ownership of the property is established.

From such information as is available, it would appear that very nearly all of the land included within the limits of these deeds falls within the lines of streets which were shown on maps filed by property owners in 1867 and 1893, and that the street is now in public use. Under these conditions it would appear probable that a dedication to public use has been established, and that the awards for the land to be taken would be only nominal.

Under the terms of the franchise granted to the New York Connecting Railroad Company, pursuant to a resolution adopted by the Board of Estimate and Apportionment on March 8, 1907 (Paragraph VIII), the Railroad Company was placed under obligation to cede to the City without expense such land falling within the lines of this street as was included within the limits of its right of way, the cession, however, to be subject to the Company's easement. This agreement appears to have been made the basis of the deed now offered by the Railroad Company, this deed relating to a strip extending from Jackson Avenue southwardly about 160 feet.

In view of the fact that these cessions do not comprise a width of one-half of the street, it is evident that their acceptance cannot properly be conditioned upon the granting of immunity from further assessment in the proceeding without inflicting an unfair burden upon owners of abutting property on the opposite side of the street. I see no reason, however, to prevent the acceptance of the deed of the New York Connecting Railroad Company, as in fulfillment of its contract obligations to the City, or to prevent similar action in the case of the deed offered by the Stuyvesant Real Estate Company, with consideration, however, in this case of a nominal payment, and such action is recommended. Respectfully, NELSON P. LEWIS, Chief Engineer.

The following was offered:

Whereas, Under date of September 11, 1914, Messrs. O'Brien, Boardman and Platt, counsel for the New York Connecting Railroad Company and the Stuyvesant Real Estate Company, have submitted to the Board of Estimate and Apportionment:

(1) Form of deed from the New York Connecting Railroad Company to the City of New York, conveying for street purposes certain land lying in the bed of Second Street, Queens County, and bounded by the new westerly line of Second Street as proposed, the center line of old Second Street, Jackson Avenue, and a line parallel to Wells Place and distant from Jackson Avenue about 160 feet. (Submitted in pursuance of the provisions of Paragraph 8 of the franchise granted to the company by resolution adopted by the Board on March 8, 1907.)

(2) Form of deed from the Stuyvesant Real Estate Company to the City of New York, conveying for street purposes certain land lying in the bed of Second Street, Queens County, and bounded by the center line of Wells Place, the westerly line of new Second Street, the center line of old Second Street, and a line parallel to Wells Place and distant therefrom 230 feet. (Submitted in pursuance of the provisions of the agreement between the City of New York and the Long Island Railroad Company, entered into on July 21, 1911.)

(3) Form of affidavit of Thomas W. Hulme as real estate agent of the New York Connecting Railroad Company, showing that said corporation is the owner of the land to be conveyed by it.

(4) Form of affidavit of Thomas W. Hulme as real estate agent of the Stuyvesant Real Estate Company, showing that said corporation is the owner of the land to be conveyed by it.

(5) Blueprint map showing the location of both properties.

—and

Whereas, The parcels of land described in the foregoing forms of conveyances do not include land extending fully to the center line of the street; be it

Resolved, by the Board of Estimate and Apportionment of The City of New York, in conformity with the provisions of Section 994 of the Greater New York Charter, as amended, That the Corporation Counsel be and he hereby is authorized to enter into agreements relative to the acceptance of the aforesaid deeds of cession when executed, provided that the title of the grantors be established to his satisfaction, and that the sum of one dollar be accepted as an award for the land so ceded; it being understood that the acceptance of the said deeds shall not be construed to in any way relieve the grantors from assessment in the proceeding authorized by the Board on April 3, 1913, for acquiring title to Second Street, from Howell Avenue to Jackson Avenue; and Third Street, from Queens Boulevard to Woodside Avenue, and from Stryker Avenue to Jackson Avenue, Borough of Queens.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Maywood Street, Between the First and Second Angle Points East of Carlisle Street, Borough of Queens—Acceptance of Deeds Conveying Land to the City (Cal. No. 68).

The Secretary presented a communication dated November 7, 1914, from the Real Estate Agent of the Long Island Railroad Company, transmitting the following deeds from Henry S. Duffy and the Long Island Railroad Company; and report of the Chief Engineer of the Board:

This Indenture, made the 6th day of November, in the year one thousand nine hundred and fourteen, between Henry S. Duffy, unmarried, of the Borough of Brooklyn, City of New York, party of the first part, and The City of New York, a municipal corporation, party of the second part;

Whereas, The party of the first part is the owner of the following described land and of all the estate therein embraced within the lines of Maywood Street, between the first angle point east of Carlisle Street and the second angle point east of Carlisle Street, as laid down and shown on the map or plan of The City of New York, in the Borough of Queens, and is willing to cede the same to The City of New York.

Witnesseth, That the said party of the first part, in consideration of the sum of one dollar, lawful money of the United States of America, paid to the said party of the first part, the receipt whereof is hereby acknowledged, does hereby grant, bargain and sell, release and convey unto the said party of the second part its successors, forever, all that certain piece or parcel of land situate, lying and being in The City of New York, Borough of Queens, County of Queens and State of New York, and shown as a portion of Maywood Street on the aforesaid map, and being more particularly bounded and described as follows:

Beginning at the first angle point in the southerly line of Maywood Street east of Carlisle Street, as laid down on Map of The City of New York, and running thence northeastwardly along the southerly line of Beaver Street, as now dedicated to public use, ninety-two and forty-one one-hundredths (92.41) feet to a stone monument in the northerly line of Maywood Street; thence eastwardly along the southerly line of Beaver Street, as now dedicated to public use, eighty-eight and seventy-four one-hundredths (88.74) feet to the second angle point in the southerly line of Maywood Street east of Carlisle Street, and thence westwardly along the southerly line of Maywood Street, one hundred and sixty-seven and seven one-hundredths (167.07) feet to the point or place of beginning.

Together with the appurtenances and all the estates and rights of the party of

the first part in and to said premises. It being the intention of the Grantor to convey all land in said street and all the estate therein that he may own.

To have and to hold the above granted premises unto the said City of New York and its successors forever in fee, in trust for street purposes, as fully as if the same had been acquired by condemnation proceedings.

And the said party of the first part does covenant with the said party of the second part as follows:

First—That the said party of the first part is seized of the premises in fee simple, and has a good right to convey the same.

Second—That the said premises are free from incumbrances.

In witness whereof, the said party of the first part has hereunto set his hand and seal the day and year first above written. HENRY S. DUFFY.

In the presence of A. P. COMBY.

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

On the 6th day of November, in the year one thousand nine hundred and fourteen, before me personally came Henry S. Duffy, unmarried, to me known and known to me to be the individual described in and who executed the foregoing instrument, and he duly acknowledged that he executed the same.

O. W. SCHIFFERS, Notary Public, Queens County, No. 1026. Certificate filed in Nassau and Suffolk Counties.

(Seal.)

This Indenture, made the 6th day of November, in the year one thousand nine hundred and fourteen, between the Long Island Railroad Company, a corporation of the State of New York, and Henry S. Duffy, unmarried, of the Borough of Brooklyn, City of New York, parties of the first part, and The City of New York, a municipal corporation, party of the second part:

Witnesseth, That the said parties of the first part, for and in consideration of the sum of one dollar (\$1), lawful money of the United States, and other valuable considerations, paid by the party of the second part do hereby remise, release and forever quitclaim unto the said party of the second part, its successors and assigns forever, all those certain plots, pieces or parcels of land situate, lying and being in The City of New York, Borough of Queens, County of Queens and State of New York, and shown as a portion of Maywood Street on map or plan of The City of New York, and being more particularly bounded and described as follows:

First Parcel—Beginning at the first angle point in the southerly line of Maywood Street east of Carlisle Street, as laid down on Map of The City of New York; thence northeastwardly along the southerly line of Beaver Street, as now dedicated to public use, ninety-two and forty-one one-hundredths (92.41) feet to a stone monument in the northerly line of Maywood Street; thence westwardly along the northerly line of Maywood Street, one hundred and thirty-six and nine one-hundredths (136.09) feet to the first angle point in the northerly line of Maywood Street east of Carlisle Street, and thence southeastwardly, sixty-one and forty-nine one-hundredths (61.49) feet to the point or place of beginning.

Second Parcel—Beginning at a stone monument in the northerly line of Maywood Street, distant ninety-two and forty-one one-hundredths (92.41) feet northeastwardly from the first angle point in the southerly line of Maywood Street east of Carlisle Street, as laid down on the map of The City of New York, measured along the southerly line of Beaver Street, as now dedicated to public use, and running thence eastwardly along the northerly line of Maywood Street, eighty-seven and thirty-eight one-hundredths (87.38) feet to the second angle point in the northerly line of Maywood Street east of Carlisle Street; thence southwardly, thirty-five and forty-eight one-hundredths (35.48) feet to a point in the southerly line of Beaver Street, as now dedicated to public use; thence westwardly along the southerly line of Beaver Street, as now dedicated to public use, eighty-eight and seventy-four one-hundredths (88.74) feet to the point or place of beginning.

Together with the appurtenances, and all the estates and rights of the said parties of the first part, in and to the said premises.

To have and to hold the above granted, bargained and described premises, unto the said party of the second part, its successors and assigns forever.

In witness whereof, the Long Island Railroad Company has caused these presents to be executed by its President, and its corporate seal to be hereto affixed and attested by its Secretary, and Henry S. Duffy has hereunto set his hand and seal, the day and year first above written.

THE LONG ISLAND RAILROAD COMPANY, by RALPH PETERS, President.

(Seal.)

HENRY S. DUFFY.

Attest: FRANK E. HAFF, Secretary.

Witness as to signature of Henry S. Duffy: A. P. COMBY.

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

On the 6th day of November, in the year one thousand nine hundred and fourteen, before me personally came Ralph Peters, to me known, who, being by me duly sworn, did depose and say, that he resides at Garden City, Nassau County, New York; that he is the President of the Long Island Railroad Company, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

O. W. SCHIFFERS, Notary Public, Queens County, No. 1026. Certificate filed in Nassau and Suffolk Counties.

(Notary's Seal.)

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

On this 6th day of November, in the year one thousand nine hundred and fourteen, before me personally came Henry S. Duffy, unmarried, to me known, and known to me to be the individual described in and who executed the foregoing instrument, and he thereupon acknowledged to me that he executed the same.

O. W. SCHIFFERS, Notary Public, Queens County, No. 1026. Certificate filed in Nassau and Suffolk Counties.

(Notary's Seal.)

Report No. 14138

November 11, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment.

Sir—Herewith are transmitted two deeds and affidavits of title, dated November 6, 1914, executed by Henry S. Duffy and the Long Island Railroad Company, conveying to the City of New York for street purposes the land within the lines of Maywood Street, between the first and second angle points east of Carlisle Street, Borough of Queens.

Under the terms of an agreement entered into between the City and the Long Island Railroad Company on July 21, 1911, relative to the elimination of grade crossings and the carrying out of certain proposed railroad improvements on the main line, between Woodside and Jamaica, the railroad company agreed to compensate the City for any expense which the latter might incur in acquiring title to land required for the new portion of Beaver (Maywood) Street at the first angle point east of Church (Carlisle) Street. This section of Maywood Street was made the subject of an opening proceeding instituted by the Board on May 1, 1913. The resolution adopted at that time also made provision for vesting title in the City on the date of the filing of the oaths of the Commissioners of Estimate and Assessment. The rule and damage maps were approved on June 26, 1913, but the Commissioners of Estimate and Assessment have not yet been appointed. In accordance with the terms of the agreement referred to, the area of benefit fixed by the Board was made to include land in railroad ownership only.

The deeds presented relate to all of the land now required for Maywood Street and their acceptance can properly be made the subject of an agreement, as provided by section 994 of the Charter and under which the City may be reimbursed for the expense incurred in advancing the opening proceeding. I would accordingly recommend that the Corporation Counsel be authorized, on behalf of the City, to enter into an agreement with the owners relative to this cession, provided that their title to the land is established to his satisfaction, the agreement to be based upon the payment by the City of a nominal award for the land taken and the payment by the grantors of all of the expense incurred by the City in advancing the proceeding up to the date of acceptance, pursuant to the terms of the agreement between the City and the Long Island Railroad Company entered into on July 21, 1911.

It is also recommended that the Corporation Counsel be requested to advise the Board when the deeds are accepted, in order that the resolution providing for vesting title in Maywood Street may be rescinded and the opening proceeding discontinued.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following was offered:

Whereas, under date of April 1, 1914, the General Solicitor of the Long Island Railroad Company has submitted to the Board of Estimate and Apportionment

(1) Deed executed by Henry S. Duffy, dated March 24, 1914, conveying to the City of New York for street purposes the land required for the opening of Maywood (Beaver) Street, from the first angle point east of Carlisle (Church) Street to the second angle point east of Carlisle Street, together with affidavit of title by the grantor, verified March 24, 1914;

and

(2) Quit-claim deed executed by the Long Island Railroad Company and Henry S. Duffy, dated March 24, 1914, conveying to the City of New York for street purposes all the right, title and interest of the grantors in and to certain portions of the land lying within the lines of Beaver Street as now constructed, and which land will also be within the lines of Maywood Street.

Resolved by the Board of Estimate and Apportionment of the City of New York, in conformity with the provisions of Section 994 of the Greater New York Charter, as amended, that the Corporation Counsel be and he hereby is authorized to enter into agreements relative to the acceptance of the aforesaid deeds of cession, provided that the title of the grantors be established to his satisfaction, and that the sum of one dollar be accepted as an award for the land so ceded; the same agreement being also conditioned upon the payment by the grantors of all of the expenses incurred by the City up to the date of acceptance, in the proceeding authorized by the Board on May 1, 1913, for acquiring title to Maywood Avenue (Beaver Street), from the first angle point east of Carlisle (Church) Street to the second angle point east of Carlisle Street, in the Borough of Queens.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary was then directed to request the Corporation Counsel to advise the Board when the deeds are accepted in order that the resolution providing for vesting title to Maywood street may be rescinded and the opening proceeding discontinued.

Bureau of Contract Supervision.

Fire Department—Approval of Contract, Specifications, Etc. (Cal. No. 69).

The Secretary presented a communication from the Fire Commissioner, dated August 7, 1914, requesting approval of the form of contract, specifications, etc., for 20 gasoline-propelled hose wagons, in the sum of \$80,000; and the following report of the Bureau of Contract Supervision recommending approval thereof:

City of New York, Board of Estimate and Apportionment, Municipal Building, Bureau of Contract Supervision, November 12, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On August 7, 1914, the Fire Commissioner requested approval of the form of contract and specifications and the estimate of cost in the sum of \$4,000 each for twenty gasoline-propelled hose wagons.

The cost is to be charged to the corporate stock fund entitled "C. F. D.—10-C, Fire Department, New Apparatus, Purchase of Motor Tractors and Motor Tenders."

An appropriation of \$200,000 for this fund was approved by the Board of Estimate and Apportionment on June 19, 1914, and by the Board of Aldermen on July 7, 1914. On November 11, 1914, there remained an unencumbered balance of \$157,192 in the fund.

The purchase of this apparatus is necessary to replace horses which have died or are not fit for the service.

The form of contract and specifications have been revised in a number of particulars, the most important of which requires that five of the tenders be equipped with a compressed air self-starter.

The form of contract, the specifications as revised and the estimate of cost are satisfactory.

I recommend that the form of contract and the specifications, as amended, be approved by the adoption of the attached resolution.

Respectfully,

TILDEN ADAMSON, Director.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the resolution adopted on July 11, 1912, hereby approves the form of contract, specifications and the estimate of cost in the sum of eighty thousand dollars (\$80,000) for twenty (20) gasoline-propelled hose wagons, for the use of the Fire Department, the cost to be charged to the corporate stock fund entitled "C. F. D.—10-C, Fire Department, New Apparatus, Purchase of Motor Tractors and Motor Tenders."

If no bids are received for such work within such estimated cost the amount of such estimated cost upon the bids so received may be reconsidered in its discretion by the Board of Estimate and Apportionment, provided that any of said bids is within the amount authorized and available for such work.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Correction—Approval of Contracts (Cal. No. 70).

The Secretary presented a communication from the Commissioner of Correction, dated November 10, 1914, requesting the approval of the form of the preliminary contract and of the final contract for the services of F. B. and A. Ware, Architects, for the preparation of drawings and specifications, and for the supervision of the reconstruction of the "Warden's Quarters," City Prison, Manhattan; and the following report of the Bureau of Contract Supervision recommending approval thereof:

City of New York, Board of Estimate and Apportionment, Municipal Building, Bureau of Contract Supervision, November 12, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On November 10, 1914, you referred to the Bureau of Contract Supervision a communication from the Commissioner of Corrections dated November 10, 1914 requesting the approval of the form of the preliminary contract and of the final contract for the services of F. B. and A. Ware, No. 1170 Broadway, Manhattan, as architects, for the preparation of drawings and specifications, and for the supervision of the reconstruction of the "Warden's Quarters," City Prison, Manhattan, to provide Visitors' Rooms.

The forms of contract are standard, as approved by the Corporation Counsel. The rate of compensation is placed at 7½ per cent. of the cost of construction. The total estimated cost of the architect's fees is \$907, of which \$130 is to be paid upon completion of work, provided for by the preliminary, and \$777 under the final contract.

The cost is to be paid from the fund entitled "S-12, Department of Correction, City Prisons, Penitentiaries and Correctional Buildings, Special Fund, Chapter 173, Laws of 1905." On November 10, 1914, there remained in the fund an unencumbered balance of about \$40,000.

The rate of compensation is reasonable for the character of work to be performed, all of which is reconstruction, for which the established fee of the American Institute of Architects is ten per cent. of the cost of the work to be performed.

I recommend the adoption of the attached resolution approving the contracts and estimated cost. Respectfully,

TILDEN ADAMSON, Director.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the form of the preliminary contract and of the final contract for the services of F. B. and A. Ware, No. 1170 Broadway, Manhattan, as architects for the preparation of drawings and specifications and for the supervision of the reconstruction of the "Wardens Quarters," City Prison, Manhattan, to provide Visitors' Rooms, under the jurisdiction of the Department of Correction, at an estimated cost of one hundred and thirty dollars (\$130) for the preliminary, and seven hundred and seventy-seven dollars (\$777) for the final contract, the cost to be charged to the fund entitled "S-12, Department of Correction, City Prisons, Penitentiaries and Correctional Buildings, Special Fund, Chapter 173, Laws of 1905."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Fire Department—Approval of Contract, Plans, Specifications, Etc. (Cal. No. 71).

The Secretary presented a communication from the Fire Commissioner, dated November 9, 1914, requesting approval of the form of contract, plans, specifications, etc., for a dock house for Engine Company No. 232, located at the foot of Noble

Street, Borough of Brooklyn, in the sum of \$5,500; and the following report of the Bureau of Contract Supervision recommending approval thereof:

City of New York, Board of Estimate and Apportionment, Municipal Building, Bureau of Contract Supervision, November 10, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On November 9, 1914, the Fire Commissioner submitted to the Bureau of Contract Supervision for approval by the Board of Estimate and Apportionment a form of contract, plans and specifications for a dock house for Engine Company No. 232, located upon City property at the foot of Noble Street, Borough of Brooklyn.

The estimated cost of the work is \$5,500, and is to be paid from the fund "Code 1706, Contract or Open Order Service, 1914."

On November 9, 1914, there remained in the fund an unencumbered balance of about \$30,000.

The form of contract and the general clauses of the specifications are standard as approved by the Corporation Counsel. The specification for the electrical work has been approved by the Department of Water Supply, Gas and Electricity.

The plans and specifications are satisfactory and the estimate of cost is reasonable.

I recommend the adoption of the attached resolution approving the form of contract, plans, specifications and estimate of cost of \$5,500.

Respectfully,

TILDEN ADAMSON, Director.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the form of contract, plans, specifications and estimate of cost in the sum of five thousand five hundred dollars (\$5,500) for all labor and materials necessary for the construction of a dock house for Engine Company No. 232, located at the foot of Noble Street, Borough of Brooklyn, under the jurisdiction of the Fire Department, the cost to be paid from the fund "Code 1706, Contract or Open Order Service, 1914."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

President, Borough of The Bronx—Approval of Contract, Plans, Specifications, Etc. (Cal. No. 72).

The Secretary presented a communication from the Commissioner of Public Works, Borough of The Bronx, dated October 19, 1914, requesting approval of the form of contract, plans, specifications, etc., for rebuilding a portion of the sewer in East 149th Street, between the East River and Eastern Boulevard, and the sewer in East 144th Street, for a distance of about 200 feet from its junction with East 149th Street, in the sum of \$59,674; and the following report of the Bureau of Contract Supervision recommending approval thereof:

City of New York, Board of Estimate and Apportionment, Bureau of Contract Supervision, Municipal Building, November 10, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On October 21, 1914, you referred to the Bureau of Contract Supervision a communication from the Commissioner of Public Works, Borough of The Bronx, dated October 19, 1914, requesting approval of the form of contract, plans, specifications and estimate of cost in the sum of \$59,674 for rebuilding a portion of the sewer in East 149th Street, between the East River and Eastern Boulevard, and the sewer in East 144th Street for a distance of about 200 feet from its junction with East 149th Street.

The cost of the work is to be charged to the corporate stock fund entitled "C. P. X.—45B, Rebuilding Sewer in East 149th Street and in East 144th Street."

The appropriation of \$175,000 for the fund was approved by the Board of Estimate and Apportionment on June 26, 1913.

On November 7, 1914, there remained an unencumbered balance of \$173,662.06 in the fund.

The work included in this contract is made necessary on account of the collapse of portions of these sewers, and it was decided that as the reconstruction did not give property owners any additional benefit the cost was not assessable.

The preliminary estimate of cost of the work on which the appropriation of \$175,000 was based has since been carefully revised and a detailed examination of the sewers made, with the result that the cost of all necessary rebuilding and repairing, exclusive of engineering and inspection, is now estimated at \$59,674.

The matter is urgent as the sewage is now being carried for some distance in an open ditch and further collapse of the existing sewers might be the cause of considerable damage to the adjoining property.

The form of contract, plans and specification are satisfactory and the estimate of cost reasonable.

I recommend the adoption of the attached resolution granting the request.

Respectfully,

TILDEN ADAMSON, Director.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted July 11, 1912, hereby approves the form of contract, plans and specifications for rebuilding a portion of the sewer in East 149th Street, between the East River and Eastern Boulevard, and the sewer in East 144th Street for a distance of about 200 feet from its junction with East 149th Street, Borough of The Bronx, under the jurisdiction of the President, Borough of The Bronx, at an estimated cost of fifty-nine thousand six hundred seventy-four dollars (\$59,674), the cost to be charged to the corporate stock fund entitled "C. P. X.—45B, Rebuilding Sewer in East 149th Street and in East 144th Street."

If no bids are received for such work within such estimated cost, the amount of such estimated cost upon the bids so received may be reconsidered, in its discretion, by the Board of Estimate and Apportionment, or any official acting in its behalf, provided that any of said bids is within the amount authorized and available for such work.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Education—Approval of Contract; Amended Estimates of Cost (Cal. No. 73).

The Secretary presented a communication from the Board of Education, dated October 20, 1914, requesting approval of new estimates of cost for additions to and alterations in Public School No. 12, Borough of The Bronx, in the sum of \$94,600; and the following report of the Bureau of Contract Supervision recommending approval thereof:

City of New York, Board of Estimate and Apportionment, Municipal Building, Bureau of Contract Supervision, November 10, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On October 20, 1914, the Board of Education requested approval of new estimates of cost for:

Additions to and Alterations in Public School 12, Borough of The Bronx.

Item 1. General Construction \$87,300 00

Item 2. Plumbing and Drainage 7,300 00

The communication was addressed to the Comptroller and referred to the Bureau of Contract Supervision on October 22, 1914.

On July 9, 1914, the Board of Estimate and Apportionment approved estimates of cost, for Item 1, at \$77,000, and for Item 2, at \$7,000, with provision for reconsideration.

On October 19, 1914, bids were opened by the Board of Education. The lowest of ten bids received for Item 1 was that of Frymeier & Hanna for the sum of \$87,300. The lowest of eight bids received for Item 2 was that of Henry Kleindienst, for the sum of \$7,300.

The high cost on Item 1, above the estimate, is due to the necessity of carrying on the building operations in close proximity to the present building without interfering with school session. The length and narrowness of the proposed addition also tends a higher cost for construction work. This is unavoidable because of the size of the plot and the location of the existing building thereon. The amounts of the low bids are reasonable. There is a sufficient balance in the appropriate fund to pay the increased cost.

I recommend the adoption of the attached resolution granting the request of the Board of Education.

Respectfully,

TILDEN ADAMSON, Director.

The following resolution was offered:
Resolved, That the resolution adopted by the Board of Estimate and Apportionment on July 9, 1914, which reads as follows:

"Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted on July 11, 1912, hereby approves the form of contract, specifications, plans and estimates of cost for the following work under the jurisdiction of the Department of Education:

"Additions to and Alterations in Public School No. 12, Borough of The Bronx.
"Item 1, General Construction, estimated cost seventy-seven thousand dollars (\$77,000),

"Item 2, Plumbing and Drainage, estimated cost seven thousand dollars (\$7,000),
—the cost to be charged to the corporate stock fund entitled "C. D. E. 110-P, School Buildings, Construction and Equipment, The Bronx, Sub-title 14"; and be it further

"Resolved, That in the event that the aggregate sum of the lowest bids received for the two items is equal to or less than the aggregate sum of the two items herein approved (although the amount of the lowest bid for one item may exceed the amount approved for said item), then the awards for the two items, provided both are awarded, may be made without further approval by the Board of Estimate and Apportionment; and be it further

"Resolved, That in the event that the aggregate sum of the lowest bids received for the two items exceeds the aggregate sum of the two items herein approved, no award for either item shall be made, and the amount of such estimated cost upon the bids so received may be reconsidered, in its discretion, by the Board of Estimate and Apportionment or by any official designated by the Board, provided that any of such bids is within the amount authorized and available for such work."
—be amended to make the estimated cost for Item 1 eighty-seven thousand three hundred dollars (\$87,300), and for Item 2 seven thousand three hundred dollars (\$7,300).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Correction—Approval of Contracts (Cal. No. 74).

The Secretary presented a communication from the Department of Correction dated November 10, 1914, requesting the approval of the form of a preliminary contract and a final contract for the services of F. B. and A. Ware, Architects, for the preparation of drawings and specifications and for the supervision of the construction of a Disciplinary Building on Riker's Island, in the sum of \$2,300, and the following report of the Bureau of Contract Supervision recommending approval thereof:

City of New York, Board of Estimate and Apportionment, Municipal Building, Bureau of Contract Supervision, November 10, 1914.

To the Board of Estimate and Apportionment:
Gentlemen—On November 10, 1914, you referred to the Bureau of Contract Supervision a communication from the Commissioner of Correction, dated November 10, 1914, requesting the approval of the form of a preliminary contract and a final contract for the services of F. B. and A. Ware, 1170 Broadway, Manhattan, as architects for the preparation of drawings and specifications and for the supervision of the construction of a Disciplinary Building on Riker's Island.

The forms of contract are standard, as approved by the Corporation Counsel.

The cost is to be paid from the corporate stock fund of \$28,000 authorized by the Board of Estimate and Apportionment on September 25, 1914, and concurred in by the Board of Aldermen on September 29, 1914, entitled "C. D. C. 17—Erection of Disciplinary Building, Riker's Island." On November 10, 1914, no part of this fund had been expended.

The construction of the building is to be carried on by prison labor under the supervision of the architect at a cost within the total funds available for the work. It is estimated that at public letting the work would cost \$46,000. The rate of compensation to the architects is placed at five per cent. of this amount which is customary. The total estimated cost of the architects' service is \$2,300 of which \$460 is to be paid upon completion of the work provided for by the preliminary contract and \$1,840 under the final contract. Provision is also made for the employment of an engineering specialist when approved by the Commissioner and the Board of Estimate and Apportionment, at the rate of two and one-half per cent. of the cost of the heating, plumbing and electrical work.

The rate of compensation is reasonable for the character of work to be performed.

List of Requests for Issues of Corporate Stock Returned to Departments in Accordance with Resolution Adopted on October 30, 1914.

Department.	Date of Request.	Amount.	Purpose.
Bellevue and Allied Hospitals.....	June 16, 1914	\$2,110,000 00	Construction of pavilions "F" and "G" of new Bellevue Hospital; additional wings of training school for women nurses; construction of additional wings at Fordham Hospital; nurses' residence at Gouverneur Hospital, and power plant at Bellevue Hospital.
	Oct. 21, 1914	25,000 00	Furnishing the new ward wing to Harlem Hospital.
	Oct. 21, 1914	17,000 00	For installation of proper fire protection at Bellevue Hospital.
President, Borough of Manhattan.....	June 12, 1914	1,000,000 00	Repaving streets and avenues.
	June 29, 1914	9,000 00	Completion of the Borough Map.
	June 25, 1914	90,000 00	Erection of a court building for the Fifth District City Magistrates' Court. (Resolution of the Commissioners of the Sinking Fund.)
	Aug. 5, 1914	.....	Amendment of resolutions adopted July 17, 1911, May 2, 1912, and November 21, 1912, authorizing the issue of \$262,000 corporate stock for the erection of a new building for the Children's Court, First Division, including architects' fees, so as to provide for equipment and furnishing.
	Oct. 16, 1914	13,500 00	For corrugated iron sheds over market at Fort Lee Ferry plaza.
President, Borough of The Bronx	June 30, 1914	2,500 00	Improvement of market site on Willis Ave., extending from Southern Boulevard to 132nd St.
	July 17, 1914	10,000 00	Altering, etc., rapid transit station at 174th St. and Southern Boulevard.
	July 24, 1914	60,000 00	Construction of bridge over Bronx River at 210th St. and Bronx Boulevard.
	July 22, 1914	95,700 00	Paving Jerome Avenue from Bainbridge Ave. to City Line.
President, Borough of Brooklyn.....	June 23, 1914	2,500,000 00	Construction of court house in Kings County.
President, Borough of Queens.....	Apr. 11, 1914	25,000 00	Construction of wooden bulkheads and wing walls in Rockaway section.
	June 3, 1914	25,000 00	Establishment of interior bath at College Point.
	July 2, 1914	30,000 00	Construction of Civil Jail.
President, Borough of Richmond.....	Feb. 14, 1914	3,975 00	Engineering work in connection with the elimination of grade crossings.
	July 17, 1914	100,000 00	Repaving Richmond Terrace.
Bridges	Nov. 6, 1913	150,000 00	Replacing the covering of the cables of the Williamsburg Bridge.
	Nov. 5, 1913	2,453,000 00	Alteration of Queensboro Bridge for operation of rapid transit subway and elevated railway trains.
	Apr. 29, 1914	160,000 00	Constructing and installing elevators for passenger and vehicle service from the Queensboro Bridge to Blackwell's Island.
	July 16, 1914	9,861,200 00	Departmental corporate stock requirements for the year 1914.
Docks and Ferries	May 26, 1914	66,000 00	Construction of a covered steel dumping board to replace existing dumping boards used by the Department of Street Cleaning on the southerly side of Pier 33, foot of Canal Street, North River.
	May 26, 1914	35,000 00	Construction of a covered steel dumping board at the out shore end of the north side of the pier, foot of West 30th Street, North River, for the Department of Street Cleaning.
	June 22, 1914	1,264,766 44	Corporate stock requirements for the year beginning July 1, 1914. (On July 9, 1914 (Cal. No. 180), the Board approved an issue of \$600,000 of this amount for salaries, wages and expenses of engineering construction force.)
Education	Feb. 11, 1914	12,395 00	Improvement of property adjoining Public Schools Nos. 71, 73 and 77, Borough of Brooklyn.
Fire	July 6, 1914	760,500 00	Purchase of fire apparatus for new companies which will shortly be organized and put into service; purchase of tractors and tenders and for the rebuilding, alteration and renovation of Fire Department Buildings.
	July 16, 1914	1,134,500 00	Departmental corporate stock requirements for 1914.
Board of Inebriety	June 30, 1914	100,000 00	Construction of a reception building, service buildings and cottages at the Farm Colony.
Law	Mar. 20, 1914	118,112 00	For new equipment for offices in the Municipal Building.
New York Public Library	Sept. 23, 1914	10,000 00	To provide for the original stock of books for the Carnegie Branch Library, located at 457 and 459 West 40th Street, Borough of Manhattan.
Parks, Boroughs of Manhattan and Richmond....	Apr. 9, 1914	110,000 00	Constructing and equipping a new engine and dynamo room in the Metropolitan Museum of Art.

I recommend the adoption of the attached resolution approving the contracts and estimated cost.

Respectfully,

TILDEN ADAMSON, Director.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of July 11, 1912, hereby approves the forms of preliminary and final contracts for the services of F. B. and A. Ware, 1170 Broadway, Manhattan, as architects for the preparation of drawings and specification and for the supervision of the construction of a Disciplinary Building at Riker's Island under the jurisdiction of the Department of Correction, at an estimated cost of four hundred and sixty dollars (\$460) for the preliminary contract, and one thousand eight hundred and forty dollars (\$1,840) for the final contract, the cost to be charged to the Corporate Stock Fund entitled "C. D. C.—17, Erection of Disciplinary Building, Riker's Island."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Bureau of Records and Minutes.

Approved Papers—Changes in the City Map (Cal. No. 75).

The following communication from the Secretary of the Board was ordered printed in the minutes and filed:

City of New York, Board of Estimate and Apportionment, Office of the Secretary, Municipal Building, November 20, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—I beg to inform you that on November 13, 1914, his Honor the Mayor, approved the resolutions adopted by the Board of Estimate and Apportionment on November 6, 1914, changing the map or plan of The City of New York as follows:

113. By changing the lines and grades of the street system within the territory bounded approximately by West 242d Street, Tibbett Avenue, Cayuga Avenue, West 246th Street, Tibbett Avenue, West 250th Street, the Post Road, West 246th Street and Broadway, Borough of The Bronx.

114. By changing the lines and grades of Munn Avenue from Westchester Avenue to Parker Street, Borough of The Bronx.

115. By changing the grade at the intersection of Hoe Avenue with West Farms Road, Borough of The Bronx.

116. By changing the lines of the street system bounded by Dongan Street, Broadway, Maurice Avenue and Poyer Street, Borough of Queens.

117. By laying out a street system and establishing grades for the territory bounded by Stiles Place, Station Road, Utopia Parkway, Crocheron Avenue, Beechhurst Avenue and Jackson Avenue, Borough of Queens.

118. By changing the grade of Decatur Street between Wyckoff Avenue and Irving Avenue, Borough of Queens.

119. By establishing the lines and grades of the street system within the area designated as Section 175 of the Final Maps, bounded approximately by Peconic Avenue, Greenwood Avenue, Dumont Avenue, Cedar Avenue, Blake Avenue, Lefferts Avenue, Dumont Avenue, Raritan Street, North Conduit Avenue, Panama Street and Fairfield Avenue, Borough of Queens.

120. By establishing the lines and grades of Decker Avenue from Cherry Lane to Post Avenue, Borough of Richmond. Respectfully,

JOSEPH HAAG, Secretary.

All City Departments—Requests for Issues of Corporate Stock (Cal. No. 76).

The Secretary presented the following, which were ordered printed in the minutes and filed:

City of New York, Board of Estimate and Apportionment, Office of the Secretary, Municipal Building, November 17, 1914.

To the Honorable Board of Estimate and Apportionment:

Dear Sirs—Submitted herewith is a list of requests from the various City departments for issues of corporate stock, which have been returned to said departments for review, etc., in pursuance of resolution adopted by the Board on October 30, 1914, directing the Secretary to return to the various City departments all requests for issues of corporate stock made by them and on which the Board of Estimate and Apportionment has not taken action with the direction that these requests be reviewed as to their present urgency and that departments submit to the Board a comprehensive estimate of their corporate stock requirements to October 31, 1915, indicating therein the order of precedence. Respectfully,

JOSEPH HAAG, Secretary.

Department.	Date of Request.	Amount.	Purpose.
Parks, Borough of The Bronx.....	Feb. 24, 1914	25,000 00	Additional equipment fund for the American Museum of Natural History.
	May 14, 1914	5,000 00	Repairing the stone work, etc., at the Soldiers' Sailors' Monument on Riverside Drive.
	May 15, 1914	375,000 00	Repaving existing gravel roadways of Central Park.
	June 1, 1914	.....	Amendment of resolution adopted June 26, 1913, authorizing the issue of \$25,000 corporate stock to provide means for improvement of St. Nicholas Park by striking out the clause restricting the improvement to the section of the park bounded by St. Nicholas Terrace and 136th and 138th Streets.
	June 8, 1914	5,000 00	Preparing plans and specifications for various improvements.
	June 8, 1914	25,000 00	Rebuilding the Bow Bridge in Central Park.
	June 16, 1914	60,000 00	Reconstructing transverse road at 79th Street and through Central Park.
	Oct. 23, 1914	.....	Reconstructing pavement, etc., surrounding tomb of General Grant on Riverside Drive.
	July 10, 1914	25,000 00	Furnishing and equipping the Metropolitan Museum of Art.
	July 24, 1914	25,000 00	Erection of a shelter building, etc., in Pelham Bay Park.
	July 17, 1913	16,000 00	Improvement of various parks and parkways. (\$24,000 on account of said request allowed by the Board on July 10, 1914.)
	Jan. 13, 1914	.....	Completion of additions, etc., to the Brooklyn Institute of Arts and Sciences and the Children's Museum Building in Bedford Park, Brooklyn.
	Apr. 23, 1914	710,500 00	Improvements in Parks and Parkways.
	Jan. 29, 1914	735,577 50	Construction of a building at the Menagerie at Prospect Park.
	Mar. 9, 1914	379,690 66	For filling in the salt marsh at Dyker Beach Park.
	Apr. 27, 1914	40,000 00	Engineering work, construction of jetties, etc., at beach front of Seaside Park at Rockaway Beach.
	May 19, 1914	95,000 00	Purchase of woodland adjoining Upland Park, Jamaica.
	June 25, 1914	55,125 00	Completing the contract between the Viaduct Contracting Company and the Department of Parks, Queens.
Parks, Borough of Brooklyn.....	.....	.....	Erection of station house, prison and garage for 42nd Police Precinct.
Parks, Borough of Queens.....	.....	.....	(To be provided through the rescindment of same amount of unencumbered balances in existing corporate stock authorizations.)
Police	May 28, 1914	150,000 00	Amendment of resolution adopted July 17, 1911, and amended December 19, 1912, authorizing the issue of \$150,000 corporate stock for construction and equipment of a dining hall and kitchen for tuberculosis patients at the Metropolitan Hospital, by including therein "Furnishings."
Public Charities	Apr. 9, 1914	.....	Amendment of resolution adopted June 26, 1913, authorizing the issue of \$35,000 corporate stock for construction and equipment of an industrial building at the New York City Farm Colony, Borough of Richmond, by substituting the words "a cottage" instead of "an industrial building."
.....	June 8, 1914	.....	Departmental corporate stock requirements for 1914. (On account of this request the Board has authorized issue of \$800,000 for Sea View Hospital).
.....	June 25, 1914	4,520,800 00	For carrying out additional fire prevention work in the various institutions.
.....	June 25, 1914	96,000 00	Power house and laundry building, Randalls Island.
.....	Oct. 6, 1914	25,000 00	Repairing foundation of female dormitory, Metropolitan Hospital.
.....	Oct. 24, 1914	25,000 00	Steam conduit connecting power house with buildings of children's hospitals and schools, Randalls Island.
.....	Oct. 2, 1914	25,000 00	Equipment of Greenpoint Hospital.
Queens Borough Public Library.....	July 31, 1913	35,000 00	(The last four items mentioned were included in the departmental estimate of corporate stock requirements submitted June 25, 1914.)
Staten Island Association of Arts and Sciences..	Dec. 10, 1913	2,000 00	Acquisition of a site and the erection of a building for a public library at Corona, L. I.
Water Supply, Gas and Electricity.....	June 12, 1913	7,500 00	Preparation of plans for Free Public Museum and Library.
.....	Aug. 28, 1913	1,220 00	Purchase of trees from State Conservation Commission and expenses of planting same. Restoration of Croton, Bronx and Byram Watersheds.
.....	Apr. 12, 1914	19,153 00	Adequate water supply for Barren Island.
.....	May 5, 1914	.....	Expenses of engineering and construction forces for 1914.
.....	May 16, 1914	640,000 00	Extending distribution system in various boroughs.
.....	Oct. 29, 1913	52,000 00	For additional water supply for fire protection purposes throughout Brooklyn.
.....	Oct. 23, 1914	122,244 05	Replenishing water fund to provide for payment of Juengst Bros.' claim.
.....	Oct. 26, 1914	3,500 00	Raising sections of water main in Riverside Drive.
.....	June 29, 1914	840,000 00	Urgent improvements in connection with the water supply system of the Boroughs of Manhattan and The Bronx.
Bronx Parkway Commission	June 17, 1914	23,000 00	Remedying conditions at the West 179th St. pumping station, Borough of Manhattan.
Correction	Nov. 22, 1913	2,000 00	City's share of amount to be paid for lands in the parkway reservation, and expenses in connection with acquisition.
.....	.....	.....	Survey and report by Messrs. Porter & Himmelwright on the removal of fire hazards in the institutions, etc., under the jurisdiction of the Department of Correction.

LOCAL IMPROVEMENTS.

Preliminary Authorization.

Borough of The Bronx.

Holland Avenue, from Gun Hill Road to East 215th Street, Borough of The Bronx—Regulating and Grading (Cal. No. 77).

The Secretary presented the following communication from the President of the Borough of The Bronx, dated October 31, 1914, requesting preliminary authorization in the matter of a resolution adopted by the Local Board of the Chester District, Borough of The Bronx, on May 19, 1914, initiating proceedings for this improvement, and the following reports of the Chief Engineer of the Board:

City of New York, President of the Borough of The Bronx, Third Avenue and 177th Street, October 31st, 1914.

Board of Estimate and Apportionment, Municipal Building, Manhattan:

Gentlemen—On May 19th, 1914, the Local Board of Chester adopted a resolution providing for regulating, grading, etc., Holland Avenue, from Gun Hill Road to East 215th Street.

The avenue is five blocks in length and 33 houses have been constructed along the line thereof. It is located within 300 feet of White Plains Road (where a subway is now under construction), and in my opinion the property along the line of the avenue will develop rapidly as soon as its improvement is effected. As required by your Board, I beg to submit information with reference to the improvement, as follows:

Number of petitioners owning property fronting on the improvement.....	21
Total length of frontage owned by them, feet.....	840
Average assessed valuation per linear foot of land, excluding buildings fronting on the improvement	\$48 00
Average cost of the improvement per linear foot of length.....	9 96
Centre line length of the improvement, feet.....	1,241

Authorization of the preliminary work is respectfully requested.

Yours very truly, DOUGLAS MATHEWSON, President of the Borough of The Bronx.

Report No. 13950.

June 29th, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a resolution of the Local Board of the Chester District, Borough of The Bronx, adopted on May 19th, 1914, initiating proceedings for grading, curbing and flagging Holland Avenue, from Gun Hill Road to East 215th Street.

This resolution affects five blocks or about 1,200 feet of Holland Avenue, title to which has been legally acquired. An ungraded roadway is in use and the abutting property is partially improved.

The work is estimated to cost about \$12,400, and the assessed valuation of the property to be benefited is \$316,200.

In my judgment the resolution is a proper one, and I would recommend that the Borough President be authorized to have the work performed which is required prior to placing the improvement under contract. Respectfully,

NELSON P. LEWIS, Chief Engineer.

Report No. 14141.

November 16, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—At the meeting of the Board of Estimate and Apportionment held on July 2nd, 1914, I presented for the consideration of the Board a report upon the resolution of the Local Board of the Chester District, Borough of The Bronx, adopted on May

19th previous, initiating proceedings for grading, curbing and flagging Holland Avenue, from Gun Hill Road to East 215th Street, with the recommendation that the preliminary authorization be then granted.

The matter was laid over, and, after some discussion, was referred back to the Chief Engineer on July 10, 1914. This section seems to have been predicated upon a report to the Comptroller made by one of his examiners who pointed out that while the street was in a very bad condition with an irregular roadway, having a position varying from about 10 feet below to 20 feet above the legal grade, and the improvement was logical and necessary, there were unpaid assessments on the abutting property accrued by reason of previous improvements to the amount of \$20,907.17.

In a communication bearing date of October 31st last, the Borough President requests that preliminary authorization for this improvement be now given. He advises that the improvement is petitioned for by twenty-one property owners, representing about forty per cent. of the frontage, which has a valuation, excluding buildings, of about \$48 per linear foot.

The work is estimated to cost about \$12,400, or a little less than \$10 per linear foot, half of which amount represents the probable corresponding assessment on each side. The assessed valuation of the property within the area deemed to be benefited was reported to be \$316,200.

As previously reported, the resolution affects five blocks, or about 1,200 feet, of Holland Avenue, title to which has been legally acquired. The street is roughly in use and a number of dwellings of low value have been erected upon the abutting property, approximately half of which is still vacant.

The street is located about 300 feet easterly from and approximately parallel with White Plains Road, where an extension to the rapid transit system is now under construction, and the Borough President advises that upon the completion of this improvement Holland Avenue property will develop rapidly. In my judgment the argument offered in favor of the immediate authorization of the improvement is either a sound one, or the carrying out of the rapid transit enterprise must be deemed premature.

Believing that the grading of the street to be a timely improvement and that it will have the effect of at once creating a more active market for property and thereby placing it in a position where the payment of assessments will be less difficult, I would recommend that the preliminary work be authorized at this time.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following was offered:

Whereas, The President of the Borough of The Bronx has transmitted to the Board of Estimate and Apportionment a copy of a resolution of the Local Board of the Chester District, duly adopted by said Board on the 19th day of May, 1914, and approved by the President of the Borough of The Bronx, on the 27th day of May, 1914, as follows, to wit:

"Resolved, That this Board does hereby initiate proceedings for the said local improvement, to wit:

"For regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and erecting fences where necessary in Holland Avenue (Maple Street), from Gun Hill Road (Briggs Avenue), to East 215th Street (1st Avenue), together with all work incidental thereto, in the Borough of The Bronx, City of New York."

—and which resolution is accompanied with an approximate estimate of the cost of the work and the assessed value of the property benefited.

Resolved, That the Board of Estimate and Apportionment hereby authorizes the President of the Borough of The Bronx to prepare plans, specifications and an estimate of cost based on actual survey, and also to secure a determination of the boundary of the district of assessment; the entire expense of the work done subsequent to the date of this authorization to be charged against the Street Improvement Fund and later included in the assessment.

Resolved, That the Board of Estimate and Apportionment will consider the authorization of the construction of the said proposed improvement after the President of the Borough of The Bronx has submitted a statement showing that all of the above described work has been done, that he has secured the approval of the form of contract by the Corporation Counsel, that he is prepared to place the improvement under contract as soon as he receives the consent of the Board, and that the assessment map will be completed on or before the date of payment on acceptance; this report being accompanied by a further statement showing the quantity of work to be performed under each item and the unit price thereof, the expense incurred for preliminary work, the allowance to be made for additional engineering and contingencies, the total probable cost, and the number of working days to be allowed the contractor for carrying out the work.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Borough of Queens.

Bayreuth Street, from Murray Street to Wentworth Avenue, Borough of Queens—Sewer (Cal. No. 78).

The Secretary presented a resolution adopted on May 22, 1914, by the Local Board of the Jamaica District, Borough of Queens, initiating proceedings for this improvement; and the following report of the Chief Engineer of the Board.

Report No. 14127.

November 7th, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a resolution of the Local Board of the Jamaica District, Borough of Queens, adopted on May 22nd, 1914, initiating proceedings for constructing a sewer in Bayreuth Street from Murray Street to Wentworth Avenue.

This resolution affects one block or a little over 400 feet of Bayreuth Street, title to which has been acquired by deed of cession. Information has been presented showing that the property owners are particularly desirous of having this improvement carried out for the reason that the frontage is well built up, and in a communication bearing date of November 2nd last the Borough President has requested that a report upon the matter be presented for the consideration of the Board at its next meeting. The work is petitioned for by seven property owners representing about 50 per cent. of the frontage which has an assessed valuation, excluding buildings, of a little less than \$30 per linear foot.

The work is estimated to cost about \$1,500 or \$3.60 per linear foot, half of which amount represents the probable corresponding assessment. The assessed valuation of the property within the area benefited is reported to be \$63,800.

An inspection of the ground shows that the street is in use at approximately the established grade and that 15 detached houses of a good type have been erected upon the abutting property. The outlet sewer in Murray Street is provided for.

The necessity for the early provision of sewerage facilities in this street is quite apparent and the improvement is undoubtedly a very desirable one to carry out. In view of the fact, however, that the Borough of Queens has exceeded the limitation placed on outstanding preliminaries under the allotment contemplated by the resolution of July 30th, 1914, as interpreted by your Engineer in a report submitted at the meeting of September 25th, I am unable to recommend favorable action.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following was offered:

Whereas, The President of the Borough of Queens has transmitted to the Board of Estimate and Apportionment a copy of a resolution of the Local Board of the Jamaica District, duly adopted by said Board on the 22nd day of May, 1914, and approved by the President of the Borough of Queens on the 12th day of September, 1914, as follows, to wit:

"Resolved, That this Board does hereby initiate proceedings for the said local improvement, to wit:

"For the construction of a sewer and appurtenances in Bayreuth Street from Murray Street to Wentworth Avenue, Third Ward of the Borough of Queens."

—and which resolution is accompanied with an approximate estimate of the cost of the work and the assessed value of the property benefited.

Resolved, That the Board of Estimate and Apportionment hereby authorizes the President of the Borough of Queens to prepare plans, specifications and an estimate of cost based on actual survey, and also to secure a determination of the boundary of the district of assessment; the entire expense of the work done subsequent to the date of this authorization to be charged against the Street Improvement Fund and later included in the assessment.

Resolved, That the Board of Estimate and Apportionment will consider the authorization of the construction of the said proposed improvement after the President of the Borough of Queens has submitted a statement showing that all of the above described work has been done, that he has secured the approval of the form of contract by the Corporation Counsel, that he is prepared to place the improvement under contract as soon as he receives the consent of the Board, and that the assessment map will be completed on or before the date of payment on acceptance; this report being accompanied by a further statement showing the quantity of work to be performed under each item and the unit price thereof, the expense incurred for preliminary work, the allowance to be made for additional engineering and contingencies, the total probable cost, and the number of working days to be allowed the contractor for carrying out the work.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Chichester Avenue from Van Wyck Avenue to Baker Avenue, Borough of Queens—Regulating and Grading (Cal. No. 79).

The Secretary presented a resolution adopted on February 27, 1914, by the Local Board of the Jamaica District, Borough of Queens, initiating proceedings for this improvement; and the following report of the Chief Engineer of the Board:

Report No. 14132.

November 12, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a resolution of the Local Board of the Jamaica District, Borough of Queens, adopted on February 27, 1914, initiating proceedings for grading, curbing and flagging Chichester Avenue from Van Wyck Avenue to Baker Avenue.

This resolution affects one block or a little less than 400 feet of Chichester Avenue, which the Corporation Counsel has advised is dedicated to public use.

Under date of September 23d last, the Acting Borough President has forwarded a report from the Acting Engineer of Highways in which attention is directed to a dangerous condition existing in this street near its intersection with Van Wyck Avenue. The sidewalk space at this point has been excavated to a depth of about four feet below the level of the adjoining portion of the street, and it is believed that unless the entire street area is brought to grade accident might result through which the City would be liable for damage claims. The improvement is petitioned for by one owner representing about 14 per cent. of the frontage, which has a value, excluding buildings, of \$24 per linear foot.

The work is estimated to cost about \$3,300, or \$8.35 per linear foot, half of which amount represents the probable corresponding assessment on each side. The assessed valuation of the property deemed to be benefited is reported to be \$70,000.

An inspection of the ground shows that a narrow macadamized roadway is in use at an elevation generally above the established grade. A number of houses have been erected upon the abutting property, all of which appear to conform with the existing surface, excepting in the case of a new building on the northerly side at Van Wyck Avenue. At this point the property owners have excavated the sidewalk space and have laid the flagging, which at the westerly end is about four feet lower than the present surface of the street.

Conditions existing in this street at Van Wyck Avenue are such as to make it desirable to immediately proceed with the grading of the entire block, and in accordance with the request of the Acting Borough President, the matter is presented for the consideration of the Board.

I am unable, however, to recommend favorable action for the reason that the

Borough of Queens has exceeded the limitation placed on outstanding preliminaries under the allotment contemplated by the resolution of July 30, 1914, as interpreted by your Engineer in a report submitted at the meeting of September 25, last.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following was offered:

Whereas, The President of the Borough of Queens has transmitted to the Board of Estimate and Apportionment a copy of a resolution of the Local Board of the Jamaica District, duly adopted by said Board on the 27th day of February, 1914, and approved by the President of the Borough of Queens on the 28th day of February, 1914, as follows, to wit:

"Resolved, That this Board does hereby initiate proceedings for the said local improvement, to wit:

"For regulating, grading, curbing and laying sidewalks (where not already laid to grade and in good condition), together with all work incidental thereto, in Chichester Avenue, from Van Wyck Avenue to Baker Avenue, Fourth Ward of the Borough of Queens."

—and which resolution is accompanied with an approximate estimate of the cost of the work and the assessed value of the property benefited.

Resolved, That the Board of Estimate and Apportionment hereby authorizes the President of the Borough of Queens to prepare plans, specifications and an estimate of cost based on actual survey, and also to secure a determination of the boundary of the district of assessment; the entire expense of the work done subsequent to the date of this authorization to be charged against the Street Improvement Fund and later included in the assessment.

Resolved, That the Board of Estimate and Apportionment will consider the authorization of the construction of the said proposed improvement after the President of the Borough of Queens has submitted a statement showing that all of the above described work has been done, that he has secured the approval of the form of contract by the Corporation Counsel, that he is prepared to place the improvement under contract as soon as he receives the consent of the Board, and that the assessment map will be completed on or before the date of payment on acceptance; this report being accompanied by a further statement showing the quantity of work to be performed under each item and the unit price thereof, the expense incurred for preliminary work, the allowance to be made for additional engineering and contingencies, the total probable cost, and the number of working days to be allowed the contractor for carrying out the work.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Final Authorization.

Borough of The Bronx.

The Secretary presented the following report of the Chief Engineer of the Board relating to Cal. Nos. 80 to 82, inclusive:

Report No. 14147.

November 16, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith are transmitted communications from the President of the Borough of The Bronx, advising that all of the conditions imposed by the Board prior to the authorization of the following local improvements have been complied with:

1. Grading, curbing and flagging Adams Street, from Morris Park Avenue to the New York, New Haven and Hartford Railroad.

The preliminary work for this improvement was authorized by the Board of Estimate and Apportionment on July 10, 1914, at which time information was presented to show that its probable cost would be about \$31,300. The Borough President states that the time to be allowed for the completion of the improvement is 220 days, and that the expense incurred for the preliminary work amounts to \$146.69.

The work to be done comprises the following: 8,450 cubic yards earth and rock excavation, 12,500 cubic yards filling, 1,700 linear feet curbing, 2,550 square feet flagging, 5,470 square feet cement sidewalk. The cost of the improvement is now estimated to be \$30,100.

2. Reconstructing the sewer in 3rd Avenue, from East 138th Street to East 140th Street.

The preliminary work for this improvement was authorized by the Board of Estimate and Apportionment on July 10, 1914, at which time information was presented to show that its probable cost would be about \$13,100. The Borough President states that the time to be allowed for the completion of the improvement is 150 days, and that the expense incurred for the preliminary work amounts to \$54.77.

The work to be done comprises the following: 240 linear feet 3-foot concrete sewer, 505 linear feet 20-inch pipe sewer, 5 linear feet 15-inch pipe sewer, 10 linear feet 12-inch pipe sewer, 8 manholes. The cost of the improvement is now estimated to be \$13,200.

3. Sewers in the following streets: Westchester Avenue, northerly side, from Metcalf Avenue to Taylor Avenue; Westchester Avenue, southerly side, from Metcalf Avenue to St. Lawrence Avenue; Westchester Avenue, both sides, from Taylor Avenue to Theriot Avenue; Beach Avenue, from Westchester Avenue to Randolph Avenue.

The preliminary work for this improvement was authorized by the Board of Estimate and Apportionment on July 30, 1914, at which time information was presented to show that its probable cost would be about \$71,900. The Borough President states that the time to be allowed for the completion of the improvement is 250 days, and that the expense incurred for the preliminary work amounts to \$1,159.62.

The work to be done comprises the following: 253 linear feet 40-inch by 53-inch concrete sewer, 530 linear feet 38-inch by 50-inch concrete sewer, 275 linear feet 29-inch by 40-inch concrete sewer, 533 linear feet 30-inch pipe sewer, 530 linear feet 24-inch pipe sewer, 550 linear feet 18-inch pipe sewer, 286 linear feet 15-inch pipe sewer, 1,456 linear feet 12-inch pipe sewer, 43 manholes, 19 receiving basins. The cost of the improvement is now estimated to be \$71,500.

The urgency for these improvements was established at the time when the preliminary authorization was given, and it is recommended that the construction work be now authorized.

It is also recommended that title be vested in the City on January 2, 1915, to Adams Street, from Morris Park Avenue to the New York, New Haven and Hartford Railroad. Respectfully,

NELSON P. LEWIS, Chief Engineer.

Adams Street, from Morris Park Avenue to the New York, New Haven and Hartford Railroad, The Bronx—Regulating and Grading.

Adams Street, from Morris Park Avenue to the New York, New Haven and Hartford Railroad, The Bronx—Vesting Title (Cal. No. 80).

The following was offered:

Whereas, The Board of Estimate and Apportionment, under resolutions adopted on May 21, 1909, June 13, 1912, October 17, 1912, and January 30, 1914, authorized the acquisition of title to Adams Street, Melville Street and Van Buren Street, from Morris Park Avenue to the northerly line of the right of way of the New York, New Haven and Hartford Railroad, in the Borough of The Bronx, City of New York; and

Whereas, Commissioners of Estimate and Assessment have been appointed by the Supreme Court, in proceedings to acquire title to said streets, and the oaths of said Commissioners of Estimate and Assessment were duly filed as required by law on the 11th day of December, 1913;

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 990 of the Greater New York Charter, as amended, directs that upon the 2nd day of January, 1915, the title in fee to each and every piece or parcel of land lying within the lines of said Adams Street, from Morris Park Avenue to the New York, New Haven and Hartford Railroad, in the Borough of The Bronx, City of New York, so required shall be vested in The City of New York.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following was offered:

A copy of a resolution of the Local Board of the Chester District, duly adopted by said Board on the 9th day of June, 1913, and approved by the President of the

Borough of The Bronx on the 10th day of June, 1913, having been transmitted to the Board of Estimate and Apportionment, as follows, to wit:

"Resolved, That this Board does hereby initiate proceedings for the said local improvement, to wit:

"For regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and erecting fences where necessary in Adams Street, from Morris Park Avenue to New York, New Haven and Hartford Railroad, together with all work incidental thereto, in the Borough of The Bronx, City of New York."

—and thereupon, on the 10th day of July, 1914, resolutions having been adopted by the Board of Estimate and Apportionment authorizing the President of the Borough of The Bronx to prepare the necessary plans, specifications and an estimate of the cost of the proposed improvement based on actual survey, and further resolving that the Board of Estimate and Apportionment will consider the authorization of the construction of the proposed improvement after the President of the Borough of The Bronx had submitted certain statements as provided in the said resolution, and the said resolution having been duly complied with by the President of the Borough of The Bronx, as appears by papers and documents on the files of the Board of Estimate and Apportionment, and there having been presented to the Board of Estimate and Apportionment an estimate in writing in such detail as the Board has directed that the cost of the proposed work or improvement, together with the preliminary expenses, will be the sum of \$30,100; and a statement of the assessed value according to the last preceding tax roll of the real estate included within the probable area of assessment, to wit, the sum of \$235,270, having also been presented, it is

Resolved, That the said resolution of the Local Board be and the same is hereby approved and the construction of the local improvement therein provided for is hereby authorized. This Board does hereby determine that no portion of the cost and expense thereof shall be borne and paid by The City of New York, but that the whole of such cost and expense, including the aforesaid preliminary expenses, shall be assessed upon the property deemed to be benefited by the said local improvement.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

3rd Avenue, from East 138th Street to East 140th Street, The Bronx—Reconstructing Sewer (Cal. No. 81).

The following was offered:

A copy of a resolution of the Local Board of the Morrisania District, duly adopted by said Board on the 20th day of January, 1914, and approved by the President of the Borough of The Bronx on the 22nd day of January, 1914, having been transmitted to the Board of Estimate and Apportionment, as follows, to wit:

"Resolved, That this Board does hereby initiate proceedings for the said local improvement, to wit:

"For rebuilding sewer and appurtenances in Third Avenue, between East 138th Street and East 140th Street, and all work incidental thereto, in the Borough of The Bronx, City of New York."

—and thereupon, on the 10th day of July, 1914, resolutions having been adopted by the Board of Estimate and Apportionment authorizing the President of the Borough of The Bronx to prepare the necessary plans, specifications and an estimate of the cost of the proposed improvement based on actual survey, and further resolving that the Board of Estimate and Apportionment will consider the authorization of the construction of the proposed improvement after the President of the Borough of The Bronx had submitted certain statements as provided in the said resolution, and the said resolution having been duly complied with by the President of the Borough of The Bronx, as appears by papers and documents on the files of the Board of Estimate and Apportionment, and there having been presented to the Board of Estimate and Apportionment an estimate in writing in such detail as the Board has directed that the cost of the proposed work or improvement, together with the preliminary expenses, will be the sum of \$13,200; and a statement of the assessed value according to the last preceding tax roll of the real estate included within the probable area of assessment, to wit, the sum of \$2,273,000, having also been presented, it is

Resolved, That the said resolution of the Local Board be and the same is hereby approved and the construction of the local improvement therein provided for is hereby authorized. This Board does hereby determine that no portion of the cost and expense thereof shall be borne and paid by The City of New York, but that the whole of such cost and expense, including the aforesaid preliminary expenses, shall be assessed upon the property deemed to be benefited by the said local improvement.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Westchester Avenue, Northern Side, from Metcalf Avenue to Taylor Avenue; Westchester Avenue, Southern Side, from Metcalf Avenue to St. Lawrence Avenue; Westchester Avenue, Both Sides, from Taylor Avenue to Theriot Avenue, and Beach Avenue, from Westchester Avenue to Randolph Avenue, The Bronx—Sewers (Cal. No. 82).

The following was offered:

A copy of a resolution of the Local Board of the Chester District, duly adopted by said Board on the 10th day of November, 1913, and approved by the President of the Borough of The Bronx on the 19th day of February, 1914, having been transmitted to the Board of Estimate and Apportionment, as follows, to wit:

"Resolved, That this Board does hereby initiate proceedings for the said local improvement, to wit:

"For constructing sewers and appurtenances in Westchester Avenue, north side, between Metcalf Avenue and Taylor Avenue; and in Westchester Avenue, south side, between Metcalf Avenue and St. Lawrence Avenue; and in Westchester Avenue, both sides, between Taylor Avenue and Theriot Avenue; and in Beach Avenue, between Westchester Avenue and Randolph Avenue, and all work incidental thereto, in the Borough of The Bronx, City of New York."

—and thereupon, on the 30th day of July, 1914, resolutions having been adopted by the Board of Estimate and Apportionment authorizing the President of the Borough of The Bronx to prepare the necessary plans, specifications and an estimate of the cost of the proposed improvement based on actual survey, and further resolving that the Board of Estimate and Apportionment will consider the authorization of the construction of the proposed improvement after the President of the Borough of The Bronx had submitted certain statements as provided in the said resolution, and the said resolution having been duly complied with by the President of the Borough of The Bronx, as appears by papers and documents on the files of the Board of Estimate and Apportionment, and there having been presented to the Board of Estimate and Apportionment an estimate in writing in such detail as the Board has directed that the cost of the proposed work or improvement, together with the preliminary expenses, will be the sum of \$71,500; and a statement of the assessed value according to the last preceding tax roll of the real estate included within the probable area of assessment, to wit, the sum of \$824,722 having also been presented, it is

Resolved, That the said resolution of the Local Board be and the same is hereby approved and the construction of the local improvement therein provided for is hereby authorized. This Board does hereby determine that no portion of the cost and expense thereof shall be borne and paid by The City of New York, but that the whole of such cost and expense, including the aforesaid preliminary expenses, shall be assessed upon the property deemed to be benefited by the said local improvement.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Borough of Queens.

Hancock Street, from Paynter Avenue to Freeman Avenue, Queens—Regulating and Grading (Cal. No. 83).

The Secretary presented the following report of the Chief Engineer of the Board: Report No. 14148.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the President of the Bor-

ough of Queens, advising that all of the conditions imposed by the Board prior to the authorization of the following local improvement have been complied with:

Grading, curbing and flagging Hancock Street from Paynter Avenue to Freeman Avenue.

The preliminary work for this improvement was authorized by the Board of Estimate and Apportionment on July 30, 1914, at which time information was presented to show that its probable cost would be about \$16,300. The Borough President states that the time to be allowed for the completion of the improvement is 120 days, and that the expense incurred for the preliminary work amounts to \$317.66.

The work to be done comprises the following: 4,500 cubic yards earth and rock excavation, 7,000 cubic yards filling (excess), 1,650 linear feet cement curbing, 8,100 square feet cement sidewalk. The cost of the improvement is now estimated to be \$19,500.

The urgency for this improvement was established at the time when the preliminary authorization was given, and it is recommended that the construction work be now authorized.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following was offered:

A copy of a resolution of the Local Board of the Newtown District, duly adopted by said Board on the 6th day of March, 1914, and approved by the President of the Borough of Queens on the 31st day of March, 1914, having been transmitted to the Board of Estimate and Apportionment, as follows, to wit:

"Resolved, That this Board does hereby initiate proceedings for the said local improvement, to wit:

"For regulating, grading, curbing and laying sidewalks (where not already laid to grade and in good condition) and crosswalks, together with all work incidental thereto, in Hancock Street, from Paynter Avenue to Freeman Avenue, First Ward of the Borough of Queens."

—and thereupon, on the 30th day of July, 1914, resolutions having been adopted by the Board of Estimate and Apportionment authorizing the President of the Borough of Queens to prepare the necessary plans, specifications and an estimate of the cost of the proposed improvement based on actual survey and further resolving that the Board of Estimate and Apportionment will consider the authorization of the construction of the proposed improvement after the President of the Borough of Queens had submitted certain statements as provided in the said resolution, and the said resolution having been duly complied with by the President of the Borough of Queens, as appears by papers and documents on the files of the Board of Estimate and Apportionment, and there having been presented to the Board of Estimate and Apportionment an estimate in writing in such detail as the Board has directed that the cost of the proposed work or improvement, together with the preliminary expenses, will be the sum of \$19,500; and a statement of the assessed value according to the last preceding tax roll of the real estate included within the probable area of assessment, to wit, the sum of \$70,000 having also been presented, it is

Resolved, That the said resolution of the Local Board be and the same is hereby approved and the construction of the local improvement therein provided for is hereby authorized. This Board does hereby determine that no portion of the cost and expense thereof shall be borne and paid by The City of New York, but that the whole of such cost and expense, including the aforesaid preliminary expenses, shall be assessed upon the property deemed to be benefited by the said local improvement.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

COMMUNICATIONS, PETITIONS, ETC.

From Citizens and Public Bodies.

New York Municipal Railway Corporation—Removal of Elevated Structure from Lower Fulton Street, Brooklyn (Cal. No. 84).

The Secretary presented a communication, dated November 13, 1914, from the Secretary to the Public Service Commission, stating that the New York Municipal Railway Corporation has made application to the Commission for approval (pursuant to chapter 524 of the Laws of 1913, being section 24-A of the Rapid Transit Act) of the relocation of the elevated tracks and structure on Fulton Street, between Boerum place and Sands Street, in the Borough of Brooklyn, to Adams Street or to property adjacent to Adams Street, and over private and municipal property to a connection with the tracks upon the Brooklyn Bridge; said relocation involving a change in the terminal facilities at the Brooklyn end of the New York and Brooklyn Bridge and the reconstruction or relocation of structures now on Adams Street.

The Public Service Commission inquires, inasmuch as this work will entail a very considerable expense on the part of the City, whether funds are available therefor.

(On March 27, 1913, a communication from the Comptroller relative to the above subject was presented to the Board and referred to the Transit Conference Committee and on January 30, 1914, under a reassignment of matters pending in committees of the Board, this matter was referred to the Committee on Transit and to the Committee on City Plan. On May 8, 1914 (Cal. No. 52), a communication from the Brooklyn Heights Association on this subject was referred to the Committee on Transit.)

Which was referred to the Committee on Transit and to the Committee on the City Plan.

Public Service Commission for the First District—Removal of Elevated Railroad Structure on Fulton Street, Borough of Brooklyn (Cal. No. 85).

The Secretary presented a communication dated November 16, 1914, from P. J. Kornder, Chairman of the Fulton Street Anti-L Association of Brooklyn, submitting petition of 300 storekeepers and owners of property on Fulton street and adjacent streets, requesting a hearing before the Board relative to immediately stopping the construction of the third track on the Fulton street elevated line and the carrying out of contracts for this work and delaying the consideration of shifting the elevated road from City Hall and vicinity to Adams street.

Which was referred to the Committee on Transit.

Department of Docks and Ferries—Prevailing Rate of Wages for Boilermakers (Cal. No. 86).

The Secretary presented a communication dated November 11, 1914, from the International Boilermakers, Iron Ship Builders and Helpers of America, requesting that the salaries of Boilermakers in the employ of the Department of Docks and Ferries be fixed at the prevailing rate of wages for this class of employment and that the President of said Association be given an opportunity to be heard by the Board with regard thereto.

Which was referred to the Committee on Salaries and Grades.

Public Service Commission for the First District—Issue of Corporate Stock (Cal. No. 87).

The Secretary presented a communication dated November 17, 1914, from the Public Service Commission requesting an issue of \$1,000,000 corporate stock for the purpose of paying interest charges accruing in connection with the work under Contract No. 3, between The City of New York and the Interborough Rapid Transit Company for the construction of additional rapid transit railroads.

This requisition is a sub-requisition on account of and not in addition to the requisition of the Public Service Commission under date of March 18, 1913, for \$28,200,000, and the appropriation made by the Board of Estimate by resolution adopted on said date authorizing said appropriation.

Which was referred to the Comptroller.

Public Service Commission for the First District—Issue of Corporate Stock (Cal. No. 88).

The Secretary presented a communication dated November 17, 1914, from the Public Service Commission requesting an issue of \$1,000,000 corporate stock for the purpose of paying interest charges accruing in connection with the work under Contract No. 4, between The City of New York and the New York Municipal Railway Corporation, for the construction of additional rapid transit railroads.

This requisition is a sub-requisition on account of and not in addition to the

requisition of the Public Service Commission under date of March 18, 1913, for \$60,000,000, and the appropriation made by the Board of Estimate by resolution adopted on said date authorizing said appropriation.

Which was referred to the Comptroller.

Smart Avenue, Narcissus Street and Bowne Avenue, Borough of Queens—Sewers (Cal. No. 89).

The Secretary presented a communication from Walter G. Truelson, dated November 6, 1914, urging the construction of sewers in Smart avenue, from Queens avenue to Narcissus street; Narcissus street, from Smart avenue to Bowne avenue; and Bowne avenue, from Narcissus street to Oak street, Borough of Queens.

(The Local Board of the Jamaica District, Borough of Queens, adopted a resolution initiating proceedings for carrying out this improvement on November 29, 1912, and the resolution was received in the office of the Board of Estimate and Apportionment on June 9, 1913. No information has yet been presented by the borough authorities to show that there was any urgent need for the improvement.)

Which was referred to the President of the Borough of Queens.

From City, Borough and County Officials.

President, Borough of Richmond—Addition to List of Streets to Be Repaved During Year 1914 (Cal. No. 90).

The Secretary presented a communication, dated November 11, 1914, from the President, Borough of Richmond, submitting, as an addition to the list of streets required to be repaved during the year 1914, the following:

Third street, from Lafayette avenue to its easterly end, at an estimated cost of \$3,860.

St. Mary's avenue, from New York avenue to Tompkins avenue, at an estimated cost of \$9,000.

(The list herein referred to was presented to the Board on May 22, 1914 (Cal. No. 86), and referred to the Committee on Corporate Stock Budget.)

Which was referred to the Committee on Corporate Stock Budget.

Department of Education—Amendment of Issues of Corporate Stock (Cal. No. 91).

The Secretary presented a communication, dated November 12, 1914, from the Secretary of the Board of Education, transmitting certified copy of resolution adopted by said Board on November 11, 1914, requesting that the resolution adopted by the Board of Estimate and Apportionment on June 12, 1913, authorizing the issue of \$147,800 corporate stock for the construction and equipment of a new public school building at 207th street and Hull avenue, The Bronx, be amended by increasing the amount of the authorization to \$151,800, and that the resolution adopted by the Board on July 17, 1911, authorizing the issue of \$347,530 corporate stock for the construction and equipment of a public school building at Blake avenue between Hopkinson avenue and Bristol street, Brooklyn, be amended by reducing the amount to \$343,530.

Which was referred to the Committee on Corporate Stock Budget.

Department of Public Charities—Rescission and Issue of Corporate Stock (Cal. No. 92).

The Secretary presented a communication dated November 9, 1914, from the Commissioner of Public Charities requesting that the unencumbered balances in the following corporate stock accounts be rescinded:

Construction and Equipment of a Kitchen, Service and Dining-room Building, Metropolitan Hospital, C-CH-33K.....	\$200,000 00
Construction and Equipment of a Stable, Blackwell's Island, C-CH-52.....	15,000 00
Construction and Equipment of an Addition to Storehouse, Blackwell's Island, C-CH-52A	60,000 00
	\$275,000 00

And that corporate stock to the amount of \$275,000 be authorized for the following purposes:

1. Remodeling Wards T and S, Metropolitan Hospital, into a dining hall with passageway to the new Service Building, Blackwell's Island..	\$25,000 00
2. Construction and Equipment of a Central Storehouse and General Service Building, Blackwell's Island.....	250,000 00
	\$275,000 00

Which was referred to the Committee on Corporate Stock Budget.

Department of Docks and Ferries—Issue of Corporate Stock (Cal. No. 93).

The Secretary presented a communication, dated November 17, 1914, from the Commissioner of Docks, requesting an issue of \$45,000 corporate stock to provide for the cost of building a pier by contract on the Ocean side of Coney Island in front of Dreamland Park, Borough of Brooklyn.

Which was referred to the Committee on Corporate Stock Budget, with the request for a report thereon at the meeting of November 25, 1914.

Department of Docks and Ferries—Retirement of Various Employees (Cal. No. 94).

The Secretary presented six communications dated November 13, 1914, from the Commissioner of Docks, requesting the retirement, pursuant to Chapter 669 of the laws of 1911, as amended, of the following employees in the Department of Docks and Ferries: Charles W. Thompson, Hydrographer; Alexander M. Goge, Draftsman; James W. Dikeman, Chainman; Frank A. Kennedy, Scowman; Patrick Brady, Dock Builder; William J. F. Sullivan, Chainman and Rodman.

Which were referred to the Committee on Salaries and Grades.

Department of Docks and Ferries—Retirement of Patrick Reynolds, Laborer (Cal. No. 95).

The Secretary presented a communication dated November 16, 1914, from the Commissioner of Docks requesting the retirement, pursuant to chapter 669 of the Laws of 1911, as amended, of Patrick Reynolds, a Laborer in the Department of Docks and Ferries.

Which was referred to the Committee on Salaries and Grades.

Department of Water Supply, Gas and Electricity—Retirement of Michael Crowe, Stationary Engineer (Cal. No. 96).

The Secretary presented a communication dated November 13, 1914, from the Secretary to the Mayor transmitting communication dated November 12, 1914, from the Commissioner of Water Supply, Gas and Electricity requesting the retirement, pursuant to chapter 669 of the Laws of 1911, as amended, of Michael Crowe, a Stationary Engineer in the Department of Water Supply, Gas and Electricity.

Which was referred to the Committee on Salaries and Grades.

Department of Water Supply, Gas and Electricity—Retirement of Jerome F. Callahan, Plumber (Cal. No. 97).

The Secretary presented a communication, dated November 12, 1914, from the Secretary to the Mayor, transmitting communication dated November 10, 1914, from the Commissioner of Water Supply, Gas and Electricity, requesting the retirement, pursuant to chapter 669 of the Laws of 1911, as amended, of Jerome F. Callahan, a Plumber in the Department of Water Supply, Gas and Electricity.

Which was referred to the Committee on Salaries and Grades.

Department of Education—Retirement of James Mullin, Attendance Officer (Cal. No. 98).

The Secretary presented a communication, dated November 12, 1914, from the Secretary to the Board of Education, transmitting certified copy of resolution adopted by said Board on November 11, 1914, requesting that James Mullin, an Attendance Officer in the Department of Education, be retired pursuant to chapter 669 of the Laws of 1911 as amended.

Which was referred to the Committee on Salaries and Grades.

Department of Education—Fixing Compensation of Janitors of Various Public School Buildings (Cal. No. 99).

The Secretary presented a communication, dated November 12, 1914, from the Secretary to the Board of Education, transmitting certified copies of two resolutions adopted by said Board on November 11, 1914.

(a) Requesting the fixing of the compensation of certain Janitors assigned to the temporary care of public school buildings; and

(b) Requesting the fixing of the compensation of the Janitor of Public School No. 100, Manhattan, at \$60 per month.

Which was referred to the Committee on Salaries and Grades.

County Clerk, Queens County—Issue of Special Revenue Bonds; Appropriation for Position of Superintendent of Block Index Division (Cal. No. 100).

The Secretary presented a communication, dated November 14, 1914, from the County Clerk, Queens County, requesting an issue of \$4,900 special revenue bonds for the purpose of providing means for carrying out the provisions of chapter 434, Laws of 1914, known as the Block and Index System of the Queens County Clerk's office; also requesting that the Board allow the sum of \$2,500 for the purpose of employing a Superintendent of the Block Index division.

Which was referred to the Comptroller and the Committee on Salaries and Grades.

Board of Estimate and Apportionment; Bureau of Public Improvements—Allotment of Funds (Cal. No. 101).

The Secretary presented a communication from the Chief Engineer, dated November 16, 1914, stating that the Budget for 1915, as adopted, carries one draftsman at \$1,650 a year to be paid from corporate stock, although it was probably the intention of the Board to transfer this man to the tax budget, in which event it was expected to use the balance of \$1,200 in the corporate stock appropriation to meet the expense of finishing the map of The City of New York now approaching completion.

As this corporate stock balance must now be kept, it is requested that the Chief Engineer be authorized to draw upon the contingent fund of the Board for \$1,200 in addition to the sum already authorized. This will cover the cost of the completion of the map.

Which was referred to the Committee on Salaries and Grades.

Board of Estimate and Apportionment—Replenishing Contingency Account for the Year 1914 (Cal. No. 102).

The Secretary presented a communication dated November 23, 1914, showing the condition of the appropriation for Contingencies, Board of Estimate and Apportionment, and the amount required to replenish said account to meet expenses chargeable thereto for the remainder of the year 1914.

Which was laid over until November 25, 1914.

Department of Education—Allotment of Funds to Special Trade School Fund (Cal. No. 103).

The Secretary presented a communication, dated November 12, 1914, from the Secretary to the Board of Education, transmitting certified copy of resolution adopted by said Board on November 11, 1914, requesting that the sum of \$1,291.20, representing the proceeds realized from the sale of products of the Manhattan Trade School for Girls and of the New York Parental School, Borough of Queens, be appropriated to the special Trade School Fund.

Which was referred to the Comptroller.

Seventh Avenue Extension (Southerly Extension), from Greenwich Avenue to Carmine Street; Varick Street (Widening), from Carmine Street to Franklin Street; Varick Street (Extension), from Franklin Street to Broadway, Borough of Manhattan—Amending Proceeding for Widening by Including Therein the Land Occupied by the Steps in front of St. Johns Chapel (Cal. No. 104).

The Secretary presented a communication from the Corporation Counsel, dated November 13, 1914, recommending that the proceeding for the widening of Varick Street, etc., be amended by including therein the land occupied by the steps in front of St. John's Chapel.

Which was referred to the Chief Engineer of the Board for report.

FIXING DATES FOR FUTURE HEARINGS.

On Changes in the City Map.

Borough of The Bronx.

Randall Avenue, Revere Avenue, Eastern Boulevard and Edison Avenue, Borough of the Bronx—Modifying the Grade of the Street System in the Territory Bounded by (Cal. No. 105).

The Secretary presented a communication dated February 13, 1914, from the Commissioner of Public Works, Borough of The Bronx, transmitting a map showing the proposed change, and the following report of the Chief Engineer of the Board:

Report No. 14101. October 27, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Commissioner of Public Works, Borough of The Bronx, bearing date of February 13, 1914, requesting the approval of a map showing a change proposed in the grade of the street system within the territory bounded by Randall Avenue, Revere Avenue, Eastern Boulevard and Edison Avenue.

This change more particularly relates to Fort Schuyler Road, between Randall Avenue and Eastern Boulevard, the remaining changes comprising the corresponding adjustment in the grades of the intersecting streets. The changes provide for raising the grade of this street up to a maximum of 2.5 feet and are desired for the purpose of making the established grade conform as closely as practicable with that of the existing roadway, which has been macadamized, at the same time making the necessary provision for the proper removal of surface drainage. The abutting property is entirely unimproved.

I see no reason why the plan should not be approved, and would recommend such action after a public hearing.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the grades of the street system within the territory bounded by Randall Avenue, Revere Avenue, Eastern Boulevard and Edison Avenue, in the Borough of The Bronx, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated February 10, 1914.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 18th day of December, 1914, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 18th day of December, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Rhineland Avenue, from White Plains Road to Matthews Avenue—Changing Lines.

Sagamore Street, Between Hunt Avenue and Bear Swamp Road—Discontinuing and Adjusting Grades of the Streets Affected Thereby, Borough of The Bronx (Cal. No. 106).

The Secretary presented a communication dated November 7, 1914, from the Commissioner of Public Works, Borough of The Bronx, transmitting a map showing the proposed change and the following report of the Chief Engineer of the Board:

Report No. 14135. November 11, 1914.
Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Commissioner of Public Works, Borough of The Bronx, bearing date of November 7, 1914, requesting the approval of a map showing a change in the lines of Rhinelander Avenue, from White Plains Road to Matthews Avenue, and the discontinuance of Sagamore Street, from Hunt Avenue to Bear Swamp Road, together with the incidental adjustment required in the grades of the street system to conform with these changes.

Rhinelander Avenue, as heretofore laid out between the limits named, was intended to have a width of 80 feet. The damage maps which have been prepared for the proceeding now in progress for acquiring title to the block between White Plains Road and Cruger Avenue, together with those relating to opening proceedings now in progress for the remaining intersecting streets, show that 21 buildings encroach upon the street lines. The changes now proposed provide for decreasing the width of the street to 75 feet and for deflecting the street lines at Matthews Avenue and Cruger Avenue in such a way as to give the south line a position 5 feet south of that heretofore proposed, while the north line will similarly be moved 10 feet. These changes will have the effect of avoiding 5 buildings.

Sagamore Street was placed upon the City map under a resolution adopted on November 6, 1913, at which time your Engineer pointed out that 6 buildings, having an assessed valuation of about \$19,000, encroached upon the street lines, and that the advantage offered by the street did not appear to warrant the expense which would have to be incurred in carrying out opening proceedings. It was then suggested that the plan be disapproved unless it was understood that the City would be relieved from any portion of the cost of these buildings in case opening proceedings were maintained.

The records of the Board show that the map was approved at the urgent request of owners of property in the vicinity, but there is no information to indicate their attitude as to the matter of meeting the expense. The plan now submitted provides for abandoning the street, which, in my judgment, is a course that may properly be followed.

I believe that the plan now presented is a proper one, and would recommend its approval after a public hearing. Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by changing the lines of Rhinelander Avenue, between White Plains Road and Matthews Avenue; by discontinuing Sagamore Street between Hunt Avenue and Bear Swamp Road; and by adjusting the grades of the intersecting streets affected thereby in the Borough of The Bronx, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated October 13, 1914.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 18th day of December, 1914, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 18th day of December, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Southern Boulevard, Between Willis Avenue and Brown Place, and Between St. Anns Avenue and East 138th Street, Borough of The Bronx—Changing Grades (Cal. No. 107).

The Secretary presented a communication dated July 18, 1913, from the Commissioner of Public Works, Borough of The Bronx, transmitting a map showing the proposed change; and the following report of the Chief Engineer of the Board:

Report No. 14143. November 13, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Commissioner of Public Works, Borough of The Bronx, bearing date of July 18, 1913, requesting the approval of a map showing changes proposed in the grade of Southern Boulevard from Willis Avenue to Brown Place and from St. Anns Avenue to East 138th Street.

These changes are of a minor character and provide for an adjustment of the elevations of the platforms formed at the intersecting streets, and as required to legalize the grade to which pavement has been laid.

I see no reason why the plan should not be approved, and would recommend such action after a public hearing. Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by changing the grades of Southern Boulevard, between Willis Avenue and Brown Place, between St. Ann's Avenue and East 138th Street, and in the intersecting streets affected thereby in the Borough of The Bronx, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the Secretary of the Board of Estimate and Apportionment and dated July 17, 1913.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 18th day of December, 1914, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 18th day of December, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Borough of Queens.

Borough Line, the Evergreen Branch of the Long Island Railroad and the Manhattan Beach Division of the Long Island Railroad, Borough of Queens (Section No. 31 of the Final Maps)—Changing Lines of the Street System in the Territory Bounded by (Cal. No. 108).

The Secretary presented a communication dated February 24, 1914, from the Secretary to the President of the Borough of Queens, transmitting map showing the proposed change; and the following report of the Chief Engineer of the Board:

Report No. 14146. November 13, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Secretary to the President of the Borough of Queens, bearing date of February 24, 1914, requesting the approval of an amended plan for what is designated as Section No. 31 of the Final Maps of the Borough.

This plan relates to the territory bounded approximately by the Borough Line, the Evergreen Branch of the Long Island Railroad and the Manhattan Beach Division of the Long Island Railroad. It was originally adopted by the Board on May 21, 1909. The modifications now proposed include the change subsequently made in the line of Cooper Avenue, and provision for a number of minor adjustments in block dimensions and angles, as required, in order to make the street lines coincide with those to which the streets have been recognized and improved.

I see no reason why the map should not be approved, and would recommend such action after a public hearing.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by changing the lines of the street system within the territory bounded approximately by the Borough Line, the Evergreen Branch of the Long Island Railroad and the Manhattan Beach Division of the Long Island Railroad (amendment to Section 31 of the Final Maps), in the Borough of Queens, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated February 10, 1914.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 18th day of December, 1914, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 18th day of December, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Ziegler Avenue, Between Jackson Avenue and State Street, Borough of Queens—Changing Grade (Cal. No. 109).

The Secretary presented a communication dated April 16, 1913, from the Secretary to the President of the Borough of Queens, transmitting a map showing the proposed change; and the following report of the Chief Engineer of the Board:

Report No. 14144. November 13, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Secretary to the President of the Borough of Queens, bearing date of April 16, 1913, requesting the approval of a map showing a change proposed in the grade of Ziegler Avenue, between Jackson Avenue and State Street.

This change consists of the insertion of a succession of breaks in the grade of Ziegler Avenue about in the middle of the block described with the effect of here raising the established grade about 2 feet. It is understood that the elevations now proposed will legalize the grade to which the roadway has been macadamized, although this appears to be considerably lower than that of the easterly sidewalk. A number of buildings have been erected upon the abutting property, all of which will be benefited as a result of the change.

I see no reason why the map should not be approved, and would recommend such action after a public hearing.

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by changing the grades of Ziegler Avenue between State Street and Jackson Avenue, in the Borough of Queens, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated April 9th, 1913.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 18th day of December, 1914, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 18th day of December, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

North Conduit Avenue, Boyd Avenue, Cozine Avenue, Kennebec Street, Vandalia Avenue and the Borough Line (Section No. 115 of the Final Maps), Borough of Queens—Establishing Lines and Grades for Street System in the Territory Bounded by (Cal. No. 110).

The Secretary presented a communication dated May 11, 1914, from the Secretary to the President of the Borough of Queens, transmitting a map showing the proposed change; and the following report of the Chief Engineer of the Board:

Report No. 14145. November 13, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Secretary to the President of the Borough of Queens, bearing date of May 11, 1914, requesting the approval of Section No. 115 of the Final Maps of the Borough.

This map relates to the territory bounded approximately by North Conduit Avenue, Boyd Avenue, Stanley Avenue, Oswego Street, Wortman Avenue, Niagara Street, Cozins Avenue, Kennebec Street, Fairfield Avenue, Iroquois Street, Vandalia Avenue, Sapphire Street, Fairfield Avenue and the Borough Line, comprising an area of about 23½ acres. With the exception of a few minor grade changes and an increase in the width of Fairfield Avenue, from 80 feet to 100 feet, the treatment shown on this plan appears to harmonize with that indicated on the tentative plan for the territory which was approved by the Board on July 6, 1911. The Fairfield Avenue widening is proposed in accordance with a general scheme heretofore agreed upon for the development of this street in this Borough, as well as in the Borough of Brooklyn, where it is designated as Flatlands Avenue, as a general artery to serve the proposed Jamaica Bay basins, all of which terminates at or near its line. The section comprises a large area of marsh land and is almost wholly undeveloped. Cedar Lane, with a broken alignment, comprising the only means of access at the present time. The old road serves as frontage for a few farm buildings, but no provision is made through most of its length for its retention in the street system, inasmuch as its position is inconsistent with any reasonable street plan development. It is assumed that the nature of the holdings in this locality is such that title to the land within its lines can be established and the way cleared for its entire abandonment.

The only park space provided for in the section comprises the triangular area at the junction of South Conduit Avenue, Vienna Avenue and Potomac Street, this comprising about 0.02 acres.

The northerly portion of the section is crossed by the Brooklyn Conduit lands, for which bounding streets designated as North Conduit Avenue and South Conduit Avenue are to be provided, in accordance with the scheme laid out on the tentative plan heretofore adopted, it being understood that the intervening area between these two streets may at some future date be devoted to parkway or boulevard use.

I see no reason why the plan should not be adopted, and would recommend such action after a public hearing.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by establishing the lines and grades of the street system within the territory designated as Section 115 of the final maps, bounded approximately by North Conduit Avenue, Boyd Avenue, Stanley Avenue, Oswego Street, Wortman Avenue, Niagara Street, Cozine Avenue, Kennebec Street, Fairfield Avenue, Iroquois Street, Vandalia Avenue, Sapphire Street, Fairfield Avenue and the Borough Line in the Borough of Queens, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated April 30, 1914.

Resolved, That this Board consider the proposed change at a meeting of the

Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 18th day of December, 1914, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 18th day of December, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Riverside Avenue, Unity Street, 120th Street, Lurting Street, Sanford Avenue, Flushing River and Rodman Street, Borough of Queens—Tentative Plan—Changing Lines and Grades of Street System in Territory Bounded by (Cal. No. 111).

The Secretary presented a communication dated August 29, 1914, from the Secretary to the President of the Borough of Queens, transmitting tentative plan; and the following report of the Chief Engineer of the Board:

Report No. 14140.

November 12, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Secretary to the President of the Borough of Queens, bearing date of August 29, 1914, requesting the approval of a tentative map showing proposed changes in the street system within the territory bounded approximately by Riverside Avenue, Unity Street, 120th Street, Lurting Street, Flushing River, Jackson Avenue, Lawrence Street, Amity Street, Delong Street, Sanford Avenue, Flushing River and Rodman Street.

These changes relate to streets shown upon the approved final maps of the sections designated as Nos. 38, 39, 40 and 42. The territory affected includes the area immediately adjoining the Flushing River between Rodman Street and Jackson Avenue, and the changes are based on the provision of a marginal area between the Flushing River and the nearest street with a depth ranging from 250 feet to upwards of 300 feet. The carrying out of this change was contemplated in connection with the preparation of the tentative map of the Black Stump section and the changes now proposed harmonize with those shown on that plan, which was adopted by the Board on October 23, 1914. It is understood that the modification is more particularly desired in order to make it practicable to acquire title to the Flushing River at the expense of the adjoining area, this comprising so much of the territory as intervenes between the canal and the nearest street, it being evident that the narrow width of 150 feet heretofore given this area is both inadequate for meeting this expense as well as for taking proper advantage of the transportation facilities which the construction of the canal should provide.

Aside from the new position to be given to the nearest street to the waterfront, the changes include the widening of Gilroy Avenue from 70 feet to 80 feet to harmonize with the widening contemplated on the Blackstump tentative map, a change in the lines of Lurting Street between 120th Street and the Flushing River, and the discontinuance of Burcker Street west of Lawrence Street, which becomes feasible under the new plan and offers a decided advantage in making it practicable to adopt street grades in the vicinity with elevations in closer conformity with the topography than otherwise would be the case.

The map also shows a number of grade adjustments, the most important of which relates to Lurting Street, where it is proposed to fix a grade of 29.5 feet at its crossing over the Flushing River, this conforming with the treatment fixed for Roosevelt Avenue and harmonizing with that determined upon for other crossings to the south.

I see no reason why the map should not be approved, and would recommend such action after a public hearing. Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following was offered:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of establishing the lines and grades of the street system within the territory bounded approximately by Riverside Avenue, Unity Street, 120th Street, Lurting Street, Flushing River, Jackson Avenue, Lawrence Street, Amity Street, Delong Street, Sanford Avenue, Flushing River and Rodman Street in the Borough of Queens, City of New York, as shown upon a tentative plan bearing the signature of the President of the Borough, and dated August 27, 1914.

Resolved, That this Board will give an informal hearing in the matter at a meeting of the Board to be held in the City Hall, Borough of Manhattan, City of New York, on the 18th day of December, 1914, at 10.30 o'clock in the forenoon.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

On Areas of Assessment for Benefit in Condemnation Proceedings.

Borough of The Bronx.

Post Road, from the Prolongation of the Northerly Line of the Second Unnamed Street North of West 242d Street to West 253d Street; West 246th Street, from Post Road to Cayuga Avenue; West 250th Street, from Post Road to Tibbett Avenue; West 251st Street, from Broadway to Post Road; West 252d Street, from Broadway to Tibbett Avenue; Tibbett Avenue, from West 246th Street to West 252d Street; and the Unnamed Street Opposite West 246th Street, from Broadway to Post Road, Borough of The Bronx—Amending the Proceeding for Acquiring Title (Cal. No. 112).

The Secretary presented the following report of the Chief Engineer of the Board:

Report No. 14130.

November 10, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—At the meeting of the Board of Estimate and Apportionment held on November 6th, 1913, through the amendment of a resolution adopted on December 12th of the previous year, a proceeding was instituted for acquiring title to the following streets in the Borough of The Bronx: Post Road, from the prolongation of the northerly line of the second unnamed street north of West 242nd Street to West 253rd Street; West 246th Street, from Post Road to Cayuga Avenue; West 250th Street, from Post Road to Tibbett Avenue; West 251st Street, from Broadway to Post Road; West 252nd Street, from Broadway to Tibbett Avenue; Tibbett Avenue, from West 246th Street to West 252nd Street; unnamed street (opposite West 246th Street), from Broadway to Post Road; but up to the present time the proceeding has not been materially advanced.

On November 6th last a map was adopted the effect of which was to decrease the width of Post Road south of its junction with West 246th Street from 80 feet to 60 feet, and to modify the alignment of West 246th Street at its intersection with Post Road. It will be necessary to effect a further amendment of the opening proceeding under which these changes will be recognized.

I would accordingly recommend that after a new public hearing has been given concerning a district of assessment modified as required by the changed conditions, the opening proceeding be amended in such a way as to relate to West 250th Street, West 251st Street, West 252nd Street and Tibbett Avenue, between the limits heretofore contemplated, but to West 246th Street, from Cayuga Avenue to Broadway, and to Post Road from Corlear Avenue to West 253rd Street, as these streets are now laid out. The change in the limits named for West 246th Street is due to the fact that the unnamed street is shown as West 246th Street on the map of November 6th referred to.

A technical description for the amended district of assessment is herewith transmitted. Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following was offered:

Whereas, Under resolutions adopted by the Board of Estimate and Apportionment on December 12, 1912, and November 6, 1913, a proceeding was authorized for acquiring title to Post Road (West 246th Street and Newton Avenue), from the prolongation of the northerly line of the second unnamed street north of West 242nd Street to West 253rd Street; West 246th Street, from Post Road to Cayuga Avenue; West 251st Street, from Broadway to Post Road; the unnamed street opposite West 246th Street, from Broadway to Post Road; Tibbett Avenue, from West 246th Street

to West 252nd Street; West 250th Street, from Post Road to Tibbett Avenue; and West 252nd Street, from Broadway to Tibbett Avenue, Borough of The Bronx; and

Whereas, The Board is considering the advisability of amending the foregoing proceeding so as to conform to a map or plan adopted by the Board of Estimate and Apportionment November 6, 1914, and approved by the Mayor November 13, 1914, under which the width of Post Road south of its junction with West 246th Street is decreased from 80 feet to 60 feet, and the alignment of West 246th Street at its intersection with Post Road is modified; the proposed amended proceeding providing for the acquisition of title to West 250th Street, West 251st Street, West 252nd Street and Tibbett Avenue, between the limits contemplated under the resolution of November 6, 1913; but to West 246th Street, from Cayuga Avenue to Broadway, and to Post Road, from Corlear Avenue to West 253rd Street, as they are now laid out upon the map or plan of The City of New York.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of the Greater New York Charter, as amended, hereby gives notice that the following is the proposed amended district of assessment for benefit in this proposed amended proceeding.

Beginning at a point on a line distant 100 feet easterly from and parallel with the easterly line of Post Road (Newton Avenue), the said distance being measured at right angles to Post Road (Newton Avenue), distance 100 feet northerly from the northerly line of West 253rd Street, and running thence southwardly along the said line parallel with Post Road (Newton Avenue), to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the easterly line of Post Road (Newton Avenue), and the westerly line of Broadway, as these streets are laid out where they meet West 252nd Street on the north; thence southwardly along the said bisecting line to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the northerly line of West 252nd Street and the southerly line of West 253rd Street as these streets are laid out where they meet Broadway; thence eastwardly along the said bisecting line to a point distant 100 feet easterly from the easterly line of Broadway, the said distance being measured at right angles to Broadway; thence southwardly and always distant 100 feet easterly from and parallel with the easterly line of Broadway to the intersection with the prolongation of a line distant 850 feet southerly from and parallel with the southerly line of West 246th Street, as this street is laid out between Broadway and Post Road, the said distance being measured along the line of Broadway; thence westwardly along the said line parallel with West 246th Street and along the prolongations of the said line to the intersection with a line distant 600 feet westerly from and parallel with the westerly line of Broadway as this street is laid out where it meets West 242nd Street on the north, the said distance being measured at right angles to Broadway; thence northwardly along the said line parallel with Broadway to a point distant 100 feet southerly from the southerly line of West 246th Street, the said distance being measured at right angles to West 246th Street; thence deflecting 90 degrees to the left and running westwardly to the intersection with a line distant 100 feet westerly from and parallel with the tangent to the westerly line of Tibbett Avenue at the first point of curvature north of West 246th Street, the said distance being measured at right angles to the said tangent; thence northwardly along the said line parallel with the said tangent to the line of Tibbett Avenue to the intersection with the radial line passing through the first point of curvature in the line of Tibbett Avenue North of West 246th Street; thence northwardly and always distant 100 feet westerly from and parallel with the westerly lines of Tibbett Avenue, West 252nd Street and Post Road (Newton Avenue), to the intersection with a line parallel with West 253rd Street, as this street is laid out where it meets Broadway, and passing through the point of beginning; thence eastwardly along the said line parallel with West 253rd Street to the point or place of beginning.

Resolved, That this Board consider the proposed amended district of assessment at a meeting of the Board to be held in the City of New York, Borough of Manhattan, in the City Hall, on the 18th day of December, 1914, at 10.30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the City Record for ten days prior to the 18th day of December, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

West 244th Street, from its Intersection with Spuyten Duyvil Parkway and Fieldston Road to Waldo Avenue; Waldo Avenue, from West 244th Street to West 242d Street; West 242d Street, from Waldo Avenue to Broadway; Corlear Avenue, from West 242d Street to West 246th Street; West 246th Street, from its Intersection with West 242d Street and Broadway to the Prolongation of the Northerly Line of the Second Unnamed Street North of West 242d Street; the First Unnamed Street North of West 242d Street, from Broadway to West 246th Street; the Second Unnamed Street North of West 242d Street, from Broadway to West 246th Street; the Public Park Bounded by Corlear Avenue, West 246th Street and West 242d Street; the Public Park Bounded by Broadway, West 246th Street and the First Unnamed Street North of West 242d Street; and the Public Park Bounded by the First Unnamed Street North of West 242d Street, West 246th Street, the Second Unnamed Street North of West 242d Street and Broadway, Borough of The Bronx—Amending the Proceeding for Acquiring Title (Cal. No. 113).

The Secretary presented the following report of the Chief Engineer of the Board:

Report No. 14129.

November 10th, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—At the meeting of the Board of Estimate and Apportionment held on May 2nd, 1912, through the amendment of a resolution adopted on December 14th of the previous year, a proceeding was instituted for acquiring title to the following streets in the Borough of The Bronx: West 244th Street from its intersection with Spuyten Duyvil Parkway and Fieldston Road to Waldo Avenue; Waldo Avenue from West 244th Street to West 242nd Street; West 242nd Street from Waldo Avenue to Broadway; Corlear Avenue from West 242nd Street to West 246th Street; West 246th Street from its intersection with West 242nd Street and Broadway to the prolongation of the northerly line of the second unnamed street north of West 242nd Street; First Unnamed Street north of West 242nd Street from Broadway to West 246th Street; Second Unnamed Street north of West 242nd Street from Broadway to West 246th Street, together with the Public Park bounded by Corlear Avenue, West 246th Street and West 242nd Street; the Public Park bounded by Broadway, West 246th Street, and the first unnamed street north of West 242nd Street, and the Public Park bounded by the first unnamed street north of West 242nd Street, West 246th Street, the second unnamed street north of West 242nd Street, and Broadway. The oaths of the Commissioners of Estimate and Assessment were filed on January 23rd, 1913.

On November 6th last, a map was adopted, the effect of which was to discontinue the first and second unnamed streets north of West 242nd Street, and also to discontinue all of the public parks, provision for acquiring title to which has heretofore been made in connection with the proceeding now under discussion. It will therefore be necessary to effect a further amendment under which these changes will be recognized.

I would accordingly recommend that after a new public hearing has been given concerning a district of assessment intended to be practically identical with the one heretofore fixed, although the description is slightly changed, the opening proceeding be amended in such a way as to relate to West 244th Street, Waldo Avenue and West 242nd Street, between the limits heretofore proposed, together with Corlear Avenue from West 242nd Street to its junction with Broadway and Post Road.

I would also recommend that the Corporation Counsel be then requested to apply to the Supreme Court to have a corresponding change made in the jurisdiction of the Commissioners of Estimate and Assessment.

A technical description for the modified district of assessment is herewith transmitted.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following was offered:

Whereas, Under resolutions adopted by the Board of Estimate and Apportionment on December 14, 1911, and May 2, 1912, a proceeding was authorized for acquiring title to West 244th Street, from its intersection with Spuyten Duyvil Parkway and Fieldston Road to Waldo Avenue; Waldo Avenue, from West 244th Street to West 242nd Street; West 242nd Street, from Waldo Avenue to Broadway; Corlear Avenue,

from West 242nd Street to West 246th Street; West 246th Street, from its intersection with West 242nd Street and Broadway to the prolongation of the northerly line of the second unnamed street north of West 242nd Street; first unnamed street north of West 242nd Street, from Broadway to West 246th Street; second unnamed street north of West 242nd Street, from Broadway to West 246th Street; together with the public park bounded by Corlear Avenue, West 246th Street and West 242nd Street; the public park bounded by Broadway, West 246th Street and the first unnamed street north of West 242nd Street; and the public park bounded by the first unnamed street north of West 242nd Street, West 246th Street, the second unnamed street north of West 242nd Street, and Broadway; and

Whereas, The Board is considering the advisability of amending the foregoing proceeding so as to conform to a map or plan adopted by the Board of Estimate and Apportionment November 6, 1914, and approved by the Mayor November 13, 1914, under which the first and second unnamed streets north of West 242nd Street, and all of the public parks are discontinued; the proposed amended proceeding providing for the acquisition of title to West 244th Street, Waldo Avenue and West 242nd Street, between the limits contemplated under the resolution of May 2, 1912, and to Corlear Avenue, from West 242nd Street to its junction with Broadway and Post Road;

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of the Greater New York Charter, as amended, hereby gives notice that the following is the proposed modified district of assessment for benefit in this proposed amended proceeding.

Beginning at a point on a line midway between Nederland Avenue and Riverdale Avenue, where it is intersected by the prolongation of a line distant 100 feet northerly from and parallel with the northerly line of West 246th Street, as this street is laid out between Riverdale Avenue and Delafield Avenue, the said distance being measured at right angles to West 246th Street, and running thence eastwardly along the said line parallel with West 246th Street and along the prolongations of the said line to the intersection with the prolongation of a line distant 100 feet northerly from and parallel with the northerly line of West 246th Street, as this street is laid out between Broadway and Post Road, the said distance being measured at right angles to West 246th Street; thence eastwardly along the said line parallel with West 246th Street and along the prolongations of the said line to a point distant 300 feet easterly from the easterly line of Broadway, the said distance being measured at right angles to Broadway; thence southwardly and always distant 300 feet easterly from and parallel with the easterly line of Broadway to the intersection with a line distant 100 feet northerly from and parallel with the northerly line of Van Cortlandt Park South, the said distance being measured at right angles to Van Cortlandt Park South; thence westwardly and always distant 100 feet northerly from and parallel with the northerly lines of Van Cortlandt Park South and of West 240th Street, and the prolongations thereof, to a point distant 100 feet westerly from the westerly line of Spuyten Duyvil Road, the said distance being measured at right angles to Spuyten Duyvil Road; thence southwardly and always distant 100 feet westerly from and parallel with the westerly line of Spuyten Duyvil Road to the intersection with the prolongation of a line distant 100 feet southerly from and parallel with the southerly line of West 238th Street, as this street is laid out between Riverdale Avenue and Waldo Avenue, the said distance being measured at right angles to West 238th Street; thence westwardly along the said line parallel with West 238th Street and along the prolongations of the said line to the intersection with a line distant 100 feet westerly from and parallel with the westerly line of Riverdale Avenue, as this street adjoins West 238th Street as laid out immediately west of Riverdale Avenue, the said distance being measured at right angles to Riverdale Avenue; thence northwardly along the said line parallel with Riverdale Avenue and along the prolongation of the said line to the intersection with the prolongation of a line midway between Riverdale Avenue and Nederland Avenue, as these streets are laid out northerly from West 245th Street; thence northwardly along the said line midway between Riverdale Avenue and Nederland Avenue and along the prolongation of the said line to the point or place of beginning.

Resolved, That this Board consider the proposed modified district of assessment at a meeting of the Board to be held in the City of New York, Borough of Manhattan, in the City Hall, on the 18th day of December, 1914, at 10.30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the CITY RECORD for ten days prior to the 18th day of December, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Herschell Street, from Westchester Avenue to Munn Avenue (Wellington Avenue), Borough of The Bronx—Acquiring Title (Cal. No. 114).

The Secretary presented a resolution adopted on June 30, 1913, by the Local Board of the Chester District, Borough of The Bronx, initiating proceedings for this improvement; and the following report of the Chief Engineer of the Board:

Report No. 14136.

November 12th, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a resolution of the Local Board of the Chester District, Borough of The Bronx, adopted on June 30th, 1913, initiating proceedings for acquiring title to Herschell Street from Westchester Avenue to Munn Avenue (Wellington Avenue).

This resolution is presented in accordance with the directions of the Board given at its meeting held on November 6th last, at which time a request of the Borough President for the authorization of this opening proceeding referred to was placed upon the calendar to the end that directions might be given the Chief Engineer as to the course to be followed, it being understood that title to the street is needed in order to clear the way for the construction of a sewer to relieve an unsanitary condition.

The resolution affects the entire length of Herschell Street, this comprising two blocks or about 900 feet. The street has been laid out upon the City Map to have a width of 60 feet; it is not in use for a short distance adjoining Munn Avenue, but through the remaining portion of its length the roadway is macadamized and the abutting property is largely improved. It is believed that there are no buildings on the land to be acquired.

I would recommend the approval of the resolution; that title to the land be acquired in fee; that the entire cost and expense of the proceeding, including any damages allowed for intended regulating, be assessed upon the property benefited, and that a district of assessment be fixed to comprise an area, the description for which is herewith presented. Respectfully, NELSON P. LEWIS, Chief Engineer.

The following was offered:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the lands and premises required for the opening and extending of Herschell Street from Westchester Avenue to Munn Avenue (Wellington Avenue), in the Borough of The Bronx, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the lands required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 980 of the Greater New York Charter, as amended, hereby gives notice that the following is the proposed area of assessment for benefit in these proceedings:

Beginning at a point on the southeasterly line of Westchester Avenue, where it is intersected by a line bisecting the angle formed by the intersection of the prolongations of the northeasterly line of Herschell Street and the westerly line of Seabury Avenue, as these streets are laid out between Westchester Avenue and Halsey Street, and running thence southeastwardly along the said bisecting line to the intersection with a line distant 100 feet northeasterly from and parallel with the northeasterly line of Herschell Street, the said distance being measured at right angles to Herschell Street; thence southeastwardly along the said line parallel with Herschell Street to the intersection with the westerly line of Seabury Avenue; thence eastwardly at right angles to Seabury Avenue to a point distant 100 feet easterly from its easterly side; thence southwardly and parallel with Seabury Avenue to a point distant 100 feet southerly from the southerly line of Munn Avenue; thence westwardly and parallel with Munn Avenue to the intersection with a line at right angles to Munn Avenue and passing

through a point on its southerly side, where it is intersected by a line distant 100 feet southwesterly from and parallel with the southwesterly line of Herschell Street, the said distance being measured at right angles to Herschell Street; thence northwardly along the said line at right angles to Munn Avenue to the intersection with its southerly side; thence northwestwardly along the said line parallel with Herschell Street to the intersection with the southeasterly line of Halsey Street; thence westwardly in a straight line to a point on the northwesterly line of Halsey Street, where it is intersected by a line bisecting the angle formed by the intersection of the prolongations of the northeasterly line of Zerega Avenue and the southwesterly line of Herschell Street, as these streets are laid out between Westchester Avenue and Butler Place; thence northwestwardly along the said bisecting line to the intersection with a line distant 100 feet northwesterly from and parallel with the northwesterly line of Westchester Avenue, the said distance being measured at right angles to Westchester Avenue; thence northeastwardly along the said line parallel with Westchester Avenue to the intersection with a line at right angles to Westchester Avenue and passing through the point of beginning; thence southeastwardly along the said line at right angles to Westchester Avenue to the point or place of beginning.

Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on the 18th day of December, 1914, at 10.30 a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the CITY RECORD for ten days prior to the 18th day of December, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Borough of Queens.

Fisk Avenue, from Queens Boulevard to Broadway, Borough of Queens—Acquiring Title (Cal. No. 115).

(On November 6, 1914 (Cal. No. 91), this matter was referred back to the Chief Engineer for further report.)

The Secretary presented the following report of the Chief Engineer of the Board:

Report No. 14137.

November 11th, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Pursuant to a request of the Public Service Commission, that the opening of Fisk Avenue, in the section adjoining Roosevelt Avenue, in the Borough of Queens, be expedited so as to permit of the construction of stairways in connection with the rapid transit railroad structure, I presented a report at the meeting of November 6th last, recommending that a hearing be given concerning the acquisition of the street through that section of its length extending from Woodside Avenue to Broadway. These limits were fixed by the Local Board of the Newtown District, in conformity with the request of August 27th, that the Board be advised as to the portion of the street which might properly be acquired at this time.

It appears that the property owners in the section between Woodside Avenue and Queens Boulevard, subsequent to the consideration of this matter by the Local Board, desired that the southerly terminus of the proceeding be fixed at Queens Boulevard, and at the meeting referred to the Chief Engineer was instructed to prepare a district of assessment harmonizing with such treatment.

A proceeding for acquiring title to Fisk Avenue, from Grand Street to Woodside Avenue, was instituted by the Board of Estimate and Apportionment on June 1st, 1911, but this was amended on February 20th, 1913, by excluding the section north of Queens Boulevard, apparently to avoid the large expense that will be here involved. Between Queens Boulevard and Woodside Avenue the street has been laid out to have a width of 80 feet and has a length of three blocks, or a little over 700 feet. The street is in use at a lesser width and fifteen buildings will be seriously damaged if the street is widened as heretofore contemplated, the widening being located entirely on the westerly side.

In connection with the report presented at the meeting of November 6th, referred to, it was shown that the advisability of decreasing the street width through a portion of its length is under consideration, this having in view the substantial reduction of building damage. The Local Board, however, recommended that the entire area within the present street lines be acquired for street purposes, and it would seem that the opening proceeding might properly be instituted with the understanding that any further studies as to the modification of the street plan will be made in connection with the preparation of the damage maps, and that a suitable amendment will later be made in the opening proceeding if necessary.

In accordance with the directions of the Board a resolution is presented for acquiring title to Fisk Avenue, from Queens Boulevard to Broadway.

I would also recommend that title to the land be acquired in fee; that the entire cost and expense of the proceeding, including any damages allowed for intended regulating, be assessed upon the property benefited; and that a district of assessment be fixed to comprise an area, the description for which is herewith presented.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following was offered:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the lands and premises required for the opening and extending of Fisk Avenue from Queens Boulevard to Broadway, in the Borough of Queens, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the lands required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 980 of the Greater New York Charter, as amended, hereby gives notice that the following is the proposed area of assessment for benefit in these proceedings:

Beginning at a point on a line distant 100 feet northeasterly from and parallel with the northeasterly line of Broadway, the said distance being measured at right angles to Broadway, where it is intersected by the prolongation of a line midway between Rowan Avenue and Hicks Place, and running thence southeastwardly along the said line parallel with Broadway to the intersection with the prolongation of a line distant 100 feet northeasterly from and parallel with the northeasterly line of Lenox Avenue, as this street is laid out where it adjoins Polk Avenue on the south, the said distance being measured at right angles to Lenox Avenue; thence southeastwardly along the said line parallel with Lenox Avenue and along the prolongations of the said line to the intersection with the prolongation of a line distant 100 feet easterly from and parallel with the easterly line of Worthington Avenue, as this street is laid out between Fairbanks Avenue and Woodside Avenue, the said distance being measured at right angles to Worthington Avenue; thence southwardly along the said line parallel with Worthington Avenue and along the prolongations of the said line to the intersection with the southerly line of Woodside Avenue; thence southwardly and parallel with Fisk Avenue and its prolongation, as this street is laid out between Woodside Avenue and Sinclair Avenue to a point distant 100 feet southerly from the southerly line of Queens Boulevard, the said distance being measured at right angles to Queens Boulevard; thence westwardly and always distant 100 feet southerly from and parallel with the southerly line of Queens Boulevard to the intersection with the prolongation of a line distant 100 feet westerly from and parallel with the westerly line of Lee Avenue, as this street is laid out between Queens Boulevard and Sinclair Avenue, the said distance being measured at right angles to Lee Avenue; thence northwardly along the said line parallel with Lee Avenue and along the prolongation of the said line to the intersection with the prolongation of a line midway between Lee Avenue and Burrough Place, as these streets are laid out between Fairbanks Avenue and Woodside Avenue; thence northwardly along the said line midway between Lee Avenue and Burrough Place and along the prolongations of the said line to the intersection with a line midway between Rowan Avenue and Hicks Place; thence northeastwardly along the said line midway between Rowan Avenue and Hicks Place and along the prolongation of the said line to the point or place of beginning.

Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the

City Hall, on the 18th day of December, 1914, at 10.30 a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the CITY RECORD for ten days prior to the 18th day of December, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

St. James Street and Corona Avenue, from Maurice Avenue to Broadway, Borough of Queens—Amending Proceeding for Acquiring Title (Cal. No. 116).

The Secretary presented the following report of the Chief Engineer of the Board:

Report No. 14131.

November 12, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—At the meeting of the Board of Estimate and Apportionment held on May 1, 1913, a proceeding was instituted for acquiring title to the following streets in the Borough of Queens: St. James Street from Maurice Avenue to Broadway; Corona Avenue from Maurice Avenue to Broadway; but up to the present time the proceeding has not been materially advanced.

On November 6th last a map was approved under which a slight change is effected in the alignment originally provided for each of these streets at Broadway, and the width of Corona Avenue was decreased from 80 feet to 70 feet. It will therefore be necessary to make a corresponding change in the opening proceeding.

I would accordingly recommend that after a new public hearing has been given concerning a district of assessment identical in description and position with the one heretofore fixed, the opening proceeding be amended in such a way as to relate to each of the streets between the limits named as now laid out.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following was offered:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of amending the proceeding authorized by said Board on May 1, 1913, for acquiring title to St. James Street, from Maurice Avenue to Broadway; and Corona Avenue, from Maurice Avenue to Broadway, in the Borough of Queens, so as to conform to a map or plan adopted by the Board of Estimate and Apportionment November 6, 1914, under which a slight change was effected in the alignment originally provided for each of these streets at Broadway, and the width of Corona Avenue was decreased from 80 feet to 70 feet; the proposed amended proceeding providing for the acquisition of title to each of the foregoing streets, between the limits named, as they are now laid out upon the map or plan of The City of New York.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of the Greater New York Charter, as amended, hereby gives notice that the following is the proposed district of assessment for benefit in this proposed amended proceeding:

Beginning at a point on the southeasterly line of Corona avenue, where it is intersected by a line distant 100 feet westerly from and parallel with the westerly line of Gerry avenue as this street is laid out where it adjoins Corona avenue, the said distance being measured at right angles to Gerry avenue, and running thence southwardly along the said line parallel with Gerry avenue and along the prolongation of the said line to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the centre lines of Maurice avenue and of Horton street, as these streets are laid out where they adjoin respectively Broadway and Justice street on the east; thence southwestwardly along the said bisecting line to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the southerly line of Maurice avenue and the northerly line of Queens boulevard, as these streets are laid out between Reeder place and Van Loon place; thence westwardly along the said bisecting line to the intersection with a line distant 100 feet southerly from and parallel with the southerly line of Maurice avenue as this street is laid out at Goldsmith place, the said distance being measured at right angles to Maurice avenue; thence westwardly along the said line parallel with Maurice avenue and along the prolongation of the said line to the intersection with a line at right angles to Maurice avenue and passing through a point on the northerly line of Queens boulevard, where it is intersected by the prolongation of a line midway between Dongan street and St. James street, as these streets are laid out at Poyer street; thence northwardly along the said line at right angles to Maurice avenue to the intersection with the northerly line of Queens boulevard; thence northeastwardly along the said line midway between Dongan street and St. James street and along the prolongations of the said line to the intersection with a line distant 100 feet northeasterly from and parallel with the northeasterly line of Broadway, the said distance being measured at right angles to Broadway; thence southeastwardly along the said line parallel with Broadway to the intersection with a line midway between Dongan street and St. James street as these streets are laid out between Broadway and Roach place; thence northeastwardly along the said line midway between Dongan street and St. James street to the intersection with a line parallel with Roach place, and passing through the point of beginning; thence southeastwardly along the said line parallel with Roach place to the point or place of beginning.

Resolved, That this Board consider the proposed district of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on the 18th day of December, 1914, at 10.30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the CITY RECORD for ten days prior to the 18th day of December, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Borough of Richmond.

Kissel Avenue and Brighton Boulevard, from Castleton Avenue to Richmond Terrace; Along the Prolongation of Brighton Boulevard, from Richmond Terrace to the Bulkhead Line, Borough of Richmond—Amending the Area of Assessment in the Proceeding for Acquiring an Easement for Sewer Purposes (Cal. No. 117).

The Secretary presented the following report of the Chief Engineer of the Board:

Report No. 14128.

November 10th, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—At the meeting of the Board of Estimate and Apportionment held on January 9th, 1913, a proceeding was instituted for acquiring a sewer easement in Kissel Avenue and in Brighton Boulevard, from Castleton Avenue to Richmond Terrace, and along the prolongation of Brighton Boulevard, from Richmond Terrace to the bulkhead line, in the Borough of Richmond. The Commissioners of Estimate and Assessment in this proceeding filed their oaths on January 7th of the current year.

The position of the area in which an easement is desired was subsequently shifted to conform with a change made in the lines of Kissel Avenue, between Castleton Avenue and Henderson Avenue, and a corresponding change in the opening proceeding was effected on July 30th, 1914. The district of assessment fixed under the amendatory resolution was in all particulars identical with the one originally determined upon excepting that the new position of Kissel Avenue was recognized. Subsequently, however, there was presented for consideration an amended drainage plan, from which it appears that the section of Bard Avenue, from Castleton Avenue to Forest Avenue, which was originally intended to be tributary to the Kissel Avenue sewer, will be given an outlet into the existing Bard Avenue sewer north of Castleton Avenue, and under these circumstances the district which has been designated as the benefited area includes property abutting on Bard Avenue which cannot properly be assessed.

In order to bring the matter into harmony with the requirements of the present drainage plan I would recommend that a new public hearing be given in the matter of acquiring a sewer easement in Kissel Avenue and Brighton Boulevard and its

prolongation between the limits named, after which the district of assessment should be modified in such a way as to include the present tributary area, the description for which is herewith presented.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following was offered:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of modifying the district of assessment fixed in the proceeding authorized by said Board for acquiring title to a sewer easement in Kissel Avenue and in Brighton Boulevard, from Castleton Avenue to Richmond Terrace, and along the prolongation of Brighton Boulevard, from Richmond Terrace to the Bulkhead Line, Borough of Richmond, which authorization was granted under resolutions adopted by the Board on January 9, 1913, and July 30, 1914.

Resolved, That the Board of Estimate and Apportionment in pursuance of the provisions of the Greater New York Charter, as amended, hereby gives notice that the following is the proposed modified district of assessment for benefit in this proceeding:

Beginning at a point on the southerly bulkhead line of Kill Van Kull where it is intersected by the prolongation of a line distant 100 feet easterly from and parallel with the easterly line of Brighton Boulevard, as this street is laid out where it adjoins Richmond Terrace, the said distance being measured at right angles to Brighton Boulevard, and running thence southwardly along the said line parallel with Brighton Boulevard and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of Henderson Avenue, the said distance being measured at right angles to Henderson Avenue; thence eastwardly and always distant 100 feet northerly from and parallel with the northerly line of Henderson Avenue to the intersection with a line passing through a point on the northerly line of Henderson Avenue distant 280 feet easterly from its intersection with the easterly line of Kissel Avenue, as this street is laid out north of Henderson Avenue, the said distance being measured along the line of Henderson Avenue, and a point on the southerly line of Castleton Avenue distant 270 feet easterly from its intersection with the easterly line of Kissel Avenue, as this street meets Castleton Avenue on the south, the said distance being measured along the line of Castleton Avenue; thence southwardly along the course last described to a point distant 100 feet northerly from the northerly line of Castleton Avenue, the said distance being measured at right angles to Castleton Avenue; thence eastwardly and always distant 100 feet northerly from and parallel with the northerly line of Castleton Avenue to the intersection with the prolongation of a line distant 100 feet easterly from and parallel with the easterly line of Havenwood Road, the said distance being measured at right angles to Havenwood Road; thence southwardly along the said line parallel with Havenwood Road and along the prolongation of the said line to the intersection with a line distant 100 feet northerly from and parallel with the northerly line of Frelinghuysen Road, as this street adjoins Haven Esplanade on the west, the said distance being measured at right angles to Frelinghuysen Road; thence eastwardly along the said line parallel with Frelinghuysen Road and along the prolongation of the said line to the intersection with the centre line of Haven Esplanade; thence southwardly along the centre line of Haven Esplanade to the intersection with the southerly line of Barrett Boulevard; thence westwardly along the southerly line of Barrett Boulevard and of Brighton Avenue to the intersection with the easterly line of Greenwood Avenue; thence southwardly along the easterly line of Greenwood Avenue a distance of 591.59 feet; thence westwardly at right angles to Greenwood Avenue to the intersection with the easterly line of University Place; thence southwardly along the easterly line of University Place to the intersection with the southerly line of Laurel Avenue; thence westwardly along the southerly line of Laurel Avenue to the intersection with the easterly line of Lakewood Road; thence southwardly along the easterly line of Lakewood Road and the prolongation thereof, a distance of 760 feet; thence westwardly at right angles to Lakewood Road a distance of 350 feet; thence southwestwardly in a straight line to a point on the easterly line of Bard Avenue distant 2,360 feet southerly from the southerly line of Forest Avenue, the said distance being measured along the line of Bard Avenue; thence westwardly at right angles to Bard Avenue to a point distant 100 feet westerly from its westerly side; thence northwardly and always distant 100 feet westerly from and parallel with the westerly line of Bard Avenue to a point distant 100 feet northerly from the northerly line of Forest Avenue, the said distance being measured at right angles to Forest Avenue; thence eastwardly and always distant 100 feet northerly from and parallel with the northerly line of Forest Avenue to the intersection with a line distant 100 feet westerly from and parallel with the westerly line of Hoyt Avenue, as this street is laid out between Forest Avenue and Prospect Avenue, the said distance being measured at right angles to Hoyt Avenue; thence northwardly along the said line parallel with Hoyt Avenue and along the prolongation of the said line to a point distant 100 feet northerly from the northerly line of Castleton Avenue, the said distance being measured at right angles to Castleton Avenue; thence eastwardly and always distant 100 feet northerly from and parallel with the northerly line of Castleton Avenue to a point distant 320 feet easterly from the easterly line of Bard Avenue, the said distance being measured at right angles to Bard Avenue; thence northwardly and always distant 320 feet easterly from and parallel with the easterly line of Bard Avenue to the intersection with the centre line of Henderson Avenue; thence eastwardly along the centre line of Henderson Avenue to the intersection with the prolongation of a line distant 100 feet westerly from and parallel with the westerly line of Kissel Avenue, as this street is laid out north of Henderson Avenue, the said distance being measured at right angles to Kissel Avenue; thence northwardly along the said line parallel with Kissel Avenue and along the prolongation of the said line to a point distant 350 feet northerly from the northerly line of Henderson Avenue, the said distance being measured at right angles to Henderson Avenue; thence westwardly at right angles to Kissel Avenue to a point distant 160 feet easterly from the easterly line of Bard Avenue, the said distance being measured at right angles to Bard Avenue; thence northwardly and always distant 160 feet easterly from and parallel with the easterly line of Bard Avenue and the prolongation thereof to the intersection with the southerly bulkhead line of Kill van Kull; thence eastwardly along the said bulkhead line to the point or place of beginning. The lines of the streets hereinbefore referred to which have not been incorporated upon the City Map are intended to be those as in use and as commonly recognized.

Resolved, That this Board consider the proposed modified district of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on the 18th day of December, 1914, at 10.30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the CITY RECORD for ten days prior to the 18th day of December, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

MATTERS LAID OVER FROM PREVIOUS MEETINGS.

President, Borough of Manhattan—Rescission of Issue of Corporate Stock (Cal. No. 118).

The Secretary presented a communication, dated October 5, 1914, from the President of the Borough of Manhattan requesting the rescission of \$22,500 of the corporate stock authorization of \$25,000 adopted by the Board on June 19, 1914 (Cal. No. 49), for the construction of a mezzanine floor and for other work in Washington Market under the jurisdiction of the Borough President.

(On October 9, 1914 (No. 101), the above communication was presented to the Board and referred to the Committee on Corporate Stock Budget, and on October 16, 1914 (No. 88), consideration of this request was laid over to October 23, 1914.)

The Secretary presented a supplemental communication from the President of the Borough of Manhattan, dated September 29, 1914, requesting the rescission of the resolution authorizing the issue of corporate stock for the above purpose.

(On October 23 and 30 and November 13, 1914 (Cal. No. 99), this matter was laid over; on the latter date to this meeting.)

(On October 30 a petition was submitted by standholders of Washington Market urging the abandonment of the proposed improvement.)

The Secretary also presented a report of the Committee on Corporate Stock Budget

in the matter of the request for the rescission of the Corporate Stock authorization of \$25,000.

Hon. Cyrus C. Miller appeared in opposition to the proposed abandonment of the improvement.

The matter was laid over until November 25, 1914.

Esplanade, Between Bronx and Pelham Parkway and Mace Avenue, and Two Public Parks at the Junction of the Esplanade with Waring Avenue—Laying Out; and Changing Grades of Streets Intersected by the Esplanade, Borough of The Bronx (Cal. No. 119).

(At the close of the public hearing on May 28, 1914, this matter was laid over until June 12, since which date the matter was laid over from time to time. On September 25, 1914 (Cal. No. 77), the matter was laid over until this meeting.)

The Secretary presented a communication dated December 31, 1913, from the Commissioner of Public Works, Borough of The Bronx, transmitting a map showing the proposed change; and the following report of the Chief Engineer of the Board:

Report No. 13725.

April 25, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Commissioner of Public Works, Borough of The Bronx, bearing date of December 31, 1913, requesting the approval of a map showing the lines and grades proposed for an Esplanade extending from Bronx and Pelham parkway to Mace Avenue, together with two public parks at the junction with Waring Avenue, and also making provision for the adjustment in grades of intersecting streets to conform with those proposed for the Esplanade.

The Esplanade shown on this plan is intended to include the right of way of the New York, Westchester and Boston Railway, the treatment observed being somewhat similar to that already fixed for the section south of the parkway, this being extended northwardly to Mace Avenue, where the railroad tunnel terminates. The street is to have a width from 85 feet to 140 feet, with provision for a centrally located mall having a width of 20 feet excepting in the block between Pelham Parkway and Astor Avenue, where the mall is to be 60 feet wide, here including the Pelham Parkway railroad station. Side roadways are shown on the plan, each having a width of 25 feet, while the sidewalk width is fixed at 15 feet excepting in the block between Waring Avenue and Tenbroeck Avenue, where the sidewalk on the easterly side is omitted, the space being here designated as a public park, this having an area of about 0.10 acres. The second park is bounded by the Esplanade, Hering Avenue and Waring Avenue, and is to have an area of about 0.03 acres.

Information is presented to show that the new street is being graded to the lines indicated on the map, and that the owners of the property propose to pave it in the near future and to cede it to the City. While the plan will have the effect of here providing a more than liberal ratio of street area to area available for development, its adoption will in no way interfere with the carrying out of the general plan for a street system as heretofore determined upon.

I would recommend such action after a public hearing.

I would also recommend the adoption of a resolution fixing the roadway and sidewalk treatment of the Esplanade between Pelham Parkway North and Mace Avenue as shown upon this map.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The matter was referred back to the President of the Borough of The Bronx.

Union Street, from New York Avenue to Rochester Avenue, and From Ralph Avenue to East New York Avenue, Borough of Brooklyn—Amending Proceeding for Acquiring Title by Excluding the Block Between Kingston Avenue and Albany Avenue (Cal. No. 120).

(On September 25, October 9 and 23, 1914, this matter was laid over; on the latter date (Cal. No. 86) until November 6, 1914, and referred to the Committee on Assessments for report on the latter date. On November 6, 1914 (Cal. No. 100), the matter was laid over until this meeting.)

The Secretary presented a joint resolution adopted on January 23, 1913, by the Local Boards of the Flatbush and New Lots Districts, Borough of Brooklyn, requesting the amendment of this proceeding, and report of the Chief Engineer of the Board, dated September 18, 1914, relative thereto.

Mr. Manasseh Miller appeared in favor of the amendment of this proceeding, and submitted waivers, under Section 1000 of the Charter, signed by property owners; and deposited \$1,298.70 to reimburse the City for proportion of expenses incurred to date.

The following was offered:

Whereas the Board of Estimate and Apportionment of the City of New York is considering the advisability of amending the proceeding authorized under resolutions adopted by said Board on December 30, 1909, and December 15, 1910, for acquiring title to Union Street, from New York Avenue to Rochester Avenue, and from Ralph Avenue to East New York Avenue, Borough of Brooklyn, so as to relate to Union Street, from New York Avenue to Kingston Avenue; from Albany Avenue to Rochester Avenue, and from Ralph Avenue to East New York Avenue; and to the northerly half of the street from Albany Avenue to a point distant 100 feet westerly therefrom.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of the Greater New York Charter, as amended, hereby gives notice that the following are the proposed areas of assessment for benefit in this proposed amended proceeding:

1. Bounded on the north by a line always midway between Union Street and Eastern Parkway and by the prolongation of the said line; on the east by a line distant 100 feet easterly from and parallel with the easterly line of Rochester Avenue, the said distance being measured at right angles to Rochester Avenue; on the south by a line always midway between Union Street and President Street and by the prolongation of the said line; and on the west by the easterly line of New York Avenue.

2. Beginning at a point on the northwesterly line of East New York Avenue where it is intersected by the prolongation of a line distant 100 feet northerly from and parallel with the northerly line of Union Street (the said distance being measured at right angles to Union Street, and running thence southwardly along a line parallel with Tapscott Street to a point distant 100 feet southeasterly from the southeasterly line of East New York Avenue, the said distance being measured at right angles to East New York Avenue; thence southwestwardly and parallel with East New York Avenue to the intersection with the prolongation of a line distant 260 feet southerly from and parallel with the northerly line of Union Street, the said distance being measured at right angles to Union Street; thence westwardly along the said line parallel with Union Street and along the prolongations of the said line to the intersection with a line distant 100 feet westerly from and parallel with the westerly line of Ralph Avenue, as this street is laid out between East New York Avenue and Eastern Parkway, the said distance being measured at right angles to Ralph Avenue; thence northwardly along the said line parallel with Ralph Avenue to the intersection with a line parallel with Union Street and passing through the point of beginning; thence eastwardly along the said line parallel with Union Street to the point or place of beginning.

Resolved, That this Board consider the proposed areas of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on the 18th day of December, 1914, at 10.30 a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the CITY RECORD and the Corporation Newspapers for ten days prior to the 18th day of December, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Ford Street, from Tiebout Avenue to Webster Avenue, Borough of The Bronx—Regulating, Grading and Paving (Cal. No. 121).

(On November 6, 1914 (Cal. No. 58), this matter was laid over until this meeting.)

The Secretary presented a resolution adopted on June 16, 1914, by the Local Board of the Van Courtlandt District, Borough of The Bronx, initiating proceedings for this improvement; and the following report of the Chief Engineer of the Board:

Report No. 14090.

October 23rd, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a resolution of the Local Board of the Van Courtlandt District, Borough of The Bronx, adopted on June 16th, 1914, initiating proceedings for grading, curbing, flagging and paving with bituminous concrete (preliminary pavement) Ford Street, from Tiebout Avenue to Webster Avenue.

This resolution affects one block, or about 400 feet, comprising the entire length of Ford Street, title to which has been legally acquired. An approximately graded roadway is in use, a portion of the flagging has been laid, and the abutting property is partially improved. The water main and gas main have been provided, but there is no public sewer in the street, the only drainage facilities apparently consisting of a small temporary private sewer located on the southerly side of the street and extending from Webster Avenue to a point about 100 feet westerly therefrom. The grades established for Ford Street and Tiebout Avenue at their intersection are such as to require the construction of steps to permit of inter-access by pedestrians.

The work is estimated to cost about \$4,500, and the assessed valuation of the property to be benefited is stated to be \$203,300.

In the absence of proper drainage facilities it is evident that the improvement is premature and cannot be carried out as contemplated by the Local Board. It is accordingly recommended that the resolution be referred back to the Local Board without approval, with the suggestion that it either be amended in such a way as to omit provision for the paving, or withheld until all of the subsurface structures have been provided for.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The matter was referred back to the President of the Borough of The Bronx.

East 25th Street, Over the Tracks of the Long Island Railroad, Borough of Brooklyn—Constructing Bridge (Cal. No. 122).

(On November 6, 1914 (Cal. No. 51), this matter was laid over until this meeting.)

The Secretary presented a communication dated August 7, 1914, from the Acting President of the Borough of Brooklyn, recommending the adoption of a resolution requesting the Brooklyn Grade Crossing Commission to construct a bridge at this point; and the following report of the Chief Engineer of the Board:

Report No. 14106.

October 31, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—At the meeting of the Board of Estimate and Apportionment, held on July 2, 1914, a communication from the Secretary of the Fiske Terrace Association requesting the construction of a bridge over the tracks of the Long Island Railroad at East 25th Street, Borough of Brooklyn, was referred to the Borough President, with the suggestion that a map be prepared showing the lines and grades proposed for this street at the railroad crossing whenever the way was cleared for physically improving the street in the vicinity of the railroad, with the understanding that this map would be made to serve as the basis for an application to the Public Service Commission for the construction of the bridge, providing that its necessity could then be established. At this time it was pointed out that East 25th Street occupied a central position between Ocean Avenue and Nostrand Avenue, where bridges have already been constructed, these streets being respectively distant five short blocks, and that the construction of the bridge at this crossing could apparently be justified whenever title to the street had been established and steps had been taken toward its physical improvement through the adjoining section on the north.

In the accompanying communication from the Acting President of the Borough, bearing date of August 7, 1914, the Board is informed that title to the westerly half of the street through a considerable portion of its length in the vicinity of the railroad crossing has been acquired under deeds of cession, that the owner of the remaining area within the street lines is prepared to cede his holdings to the City as soon as the bridge is constructed, and that the street is desired in order to afford direct means of access to a schoolhouse on Glenwood Road. He recommends the adoption of a resolution requesting the Brooklyn Grade Crossing Commission to construct the bridge at the earliest possible date.

I am informally advised by the Brooklyn Grade Crossing Commission that funds are available for carrying out the desired improvement, but I am unable to see any justification for the construction of the bridge until more definite assurances are at hand to show that it will be of any service to the community.

I would, therefore, recommend that action in this matter be deferred until such time as all of the land within the street lines in the vicinity of the railroad has been ceded to the City or acquired under opening proceedings, and until a resolution has been presented by the Local Board making provision for such regulating and grading work as may be required in order to secure a continuous highway.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The President of the Borough of Brooklyn offered the following resolution:

Resolved, That the Board of Estimate and Apportionment of the City of New York hereby requests the Brooklyn Grade Crossing Commission to construct a bridge over the tracks of the Long Island Railroad at East 25th Street, Borough of Brooklyn, with the further request, however, that the order for the construction be not given until after the City has title to the sections of East 25th Street, adjoining the railroad, and after steps have been taken toward the physical improvement of these adjoining sections.

Which was adopted by the following vote:

Affirmative—The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

Department of Education—Approval of Contract, Specifications, Plans, Etc. (Cal. No. 123).

(On November 13, 1914 (Cal. No. 53), this matter was laid over until this meeting at the request of the President of the Borough of Brooklyn.)

The Secretary presented a communication dated October 5, 1914, from the Secretary of the Board of Education, requesting approval of the form of contract, plans, specifications, etc., for installing an electric elevator in Manual Training High School, Borough of Brooklyn, in the sum of \$8,000; and the following report of the Bureau of Contract Supervision recommending that the approval of the Board of Estimate and Apportionment be withheld because of the insufficiency of funds and that the Board of Education be so advised:

City of New York, Board of Estimate and Apportionment, Municipal Building, Bureau of Contract Supervision, November 4, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On October 5, 1914, the Board of Estimate and Apportionment referred to the Bureau of Contract Supervision a communication from the Board of Education dated October 5, 1914, requesting approval of the form of contract, specifications, plans and estimates of cost, \$8,000, for installing an electric elevator in Manual Training High School, Borough of Brooklyn.

The cost is to be charged to the corporate stock fund entitled "C. D. E. 9, School Building Fund, All Boroughs." An appropriation of \$3,500,000 was authorized by the Board of Estimate and Apportionment on June 7, 1907. On November 1, 1914, an unencumbered balance of \$1,436.88 remained in the fund.

This balance is insufficient to pay the cost of the proposed installation.

I recommend that the approval of the Board of Estimate and Apportionment be withheld because of the insufficiency of funds and that the Board of Education be so advised.

Respectfully,

TILDEN ADAMSON, Director.

The Secretary presented the following substitute report of the Bureau of Contract Supervision:

City of New York, Board of Estimate and Apportionment, Municipal Building, Bureau of Contract Supervision, November 19, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On November 17, 1914, you referred to the Bureau of Contract Supervision a communication from the Board of Education, requesting that a report of the Bureau of Contract Supervision (Calendar No. 53, November 13, 1914) which recommends, because of insufficient funds, that approval be withheld of the form of contract, specifications, plans and estimate of cost, \$8,000 for installing an elevator in Manual Training High School, Borough of Brooklyn, be resubmitted, using, in addition to the available balance in the proper corporate stock fund, a sufficient amount

of the General Repair appropriation fund to provide for the full amount of the estimated cost. The report mentioned was laid over on November 13th for one week.

The unencumbered balance stated in the report of the Bureau of Contract Supervision, \$1,436.88, should be increased by credits, due to cancellations of contract obligations amounting to \$1,376, making the total unencumbered balance, according to the books of the Department of Finance on November 19, 1914, \$2,812.88.

In a communication dated November 19, 1914, the Board of Education has directed the Finance Department to cancel, in addition, a sufficient amount of the obligations of the fund to increase the unencumbered balance in C. D. E. 9 to \$7,252.88.

It is now proposed by the Board of Education to charge the cost of the elevator installation to the fund C. D. E. 9, to the extent of the total unencumbered balance in the fund, the remainder of the cost to be charged to the appropriation "Code 934, General Repairs, Borough of Brooklyn, 1914," in which there is a sufficient balance to make up the difference.

The form of contract, specifications and plans are satisfactory. The estimate of cost is reasonable. The Manual Training High School building is the only high school building without an elevator. The building is six stories high, including the basement, and an elevator is very much needed.

I recommend the adoption of the attached resolution granting the requested approval, the cost to be charged as stated. Respectfully,

TILDEN ADAMSON, Director.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted on July 11, 1912, hereby approves the form of contract, specifications, plans and estimate of cost, eight thousand dollars (\$8,000), for installing an electric elevator in Manual Training High School, Borough of Brooklyn, under the jurisdiction of the Department of Education, the cost to be charged to the corporate stock fund entitled "C. D. E.—9, School Building Fund, All Boroughs," to the full amount of the unencumbered balance remaining in the fund, the remainder of the cost to be charged to the account "Code 934, General Repairs, Borough of Brooklyn, 1914," and be it further

Resolved, That if no bids are received for such work within such estimated cost, the amount of such estimated cost upon the bids so received may be reconsidered in its discretion, by the Board of Estimate and Apportionment, or by any official designated by the Board, provided that any of such bids is within the amount authorized and available for such work.

Which was adopted by the following vote:

Affirmative—The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, Queens and Richmond—12.

Negative—The President of the Borough of The Bronx—1.

Northern Union Gas Company; Central Union Gas Company; Westchester Lighting Company (Cal. No. 124).

Extension of gas mains in the Borough of The Bronx, which may be required to connect existing mains with premises of applicants for service, under permits to be issued by the President of the Borough of The Bronx and the Commissioner of Water Supply, Gas and Electricity, containing stipulation recommended by the Law Department.

At the meeting of November 13, 1914 (Cal. No. 103), action was deferred until this day, at the request of the Acting President of the Borough of The Bronx.

The matter was laid over until November 25, 1914.

Board of Estimate and Apportionment, Committee on Port and Terminal Facilities—Resignation of Chairman (Cal. No. 125).

The Secretary presented a communication, dated October 29, 1914, from the Comptroller tendering his resignation as Chairman and member of the Committee on Port and Terminal Facilities of the Board.

(On November 6 and 13, 1914 (Cal. No. 106), this matter was laid over for one week.)

Which was laid over until November 25, 1914.

Public Service Commission for the First District—Amendment of Issue of Corporate Stock (Cal. No. 126).

(On October 23, 1914 (Cal. No. 57), the requisition of the Public Service Commission for the First District for this additional appropriation was referred to the Comptroller and to the Bureau of Contract Supervision.)

(On November 13, 1914 (Cal. No. 42), the report of the Comptroller thereon was presented to the Board and laid over for one week under Rule 19.)

The Secretary presented a communication from the Public Service Commission for the First District, dated October 20, 1914, requesting an additional issue of Corporate Stock for the purpose of more fully carrying out the terms of a contract with the Ramapo Iron Works for the supply of special work, sections Nos. 3, 9, 10 and 11, for the Fourth Avenue Subway, Brooklyn, in the sum of \$302.50, originally authorized by the Board on July 2, 1914, in an amount of \$7,627; and the following report of the Comptroller recommending approval thereof:

City of New York, Board of Estimate and Apportionment, Municipal Building, Bureau of Contract Supervision, October 7, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On October 20, 1914, the Public Service Commission for the First District transmitted to this Board resolutions requesting an additional allowance of \$302.50 for the purpose of more fully carrying out the terms of a contract with the Ramapo Iron Works for the supply of special work, portions Nos. 3, 9, 10 and 11, for the Fourth Avenue subway, Brooklyn, originally authorized by this board on July 2, 1914, in an amount of \$7,627.

This extra allowance is to cover changes in a special crossover to be required because of unforeseen conditions in connection with operating the subway.

I recommend the adoption of the attached resolution which will amend that previously passed by the Board and make available the additional money requested.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Whereas, The Board of Estimate and Apportionment on July 2, 1914, consented to the award of contract, on the requisition of the Public Service Commission for the First District, between The City of New York and the Ramapo Iron Works, providing for the supply of special work for portions Nos. 3, 9, 10 and 11 of the Broadway-Fourth Avenue Rapid Transit Railroad, in the Borough of Brooklyn, at an estimated cost of seven thousand six hundred and twenty-seven dollars (\$7,627), and

Whereas, The said Public Service Commission under date of October 20, 1914, has duly requisitioned this Board for the further amount of three hundred and two dollars and fifty cents (\$302.50) for the purpose of securing additional material under said contract, be it therefore

Resolved, That the Board of Estimate and Apportionment hereby amends said resolution of July 2, 1914, by adding thereto the amount of three hundred and two dollars and fifty cents (\$302.50), and the Comptroller be and he hereby is authorized and directed to issue corporate stock of The City of New York to the additional amount of three hundred and two dollars and fifty cents (\$302.50) at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the proceeds to the amount of the par value thereof to be applied to the purposes of contract with the Ramapo Iron Works as mentioned in the communication of the Public Service Commission dated October 20, 1914, said issue of corporate stock to be a charge against the appropriation made by this Board on March 18, 1913, of sixty million dollars (\$60,000,000) for the purpose of carrying out the contract dated March 19, 1913, known as Contract No. 4.

Which was adopted by the following vote:

Affirmative—The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

Public Service Commission for the First District—Approval of Award of Contract to the Rapid Transit Subway Construction Company for the Construction of Section No. 1, Routes Nos. 43 and 26 of the Seventh Avenue-Lexington Avenue-Steinway Tunnel Rapid Transit Railroad and Issue of Corporate Stock Therefor (Cal. No. 127).

(On October 16, 1914 (Cal. No. 53), the requisition of the Public Service Commission for the First District in this matter was referred to the Comptroller and to the Bureau of Contract Supervision.)

(On November 13, 1914 (Cal. No. 45), the report of the Comptroller thereon was presented and laid over for one week, under Rule 19.)

The Secretary presented the following requisition of the Public Service Commission for the First District for the consent of the Board to the award of the contract to the Rapid Transit Subway Construction Company for the construction of Section No. 1, Routes Nos. 43 and 26, of the Seventh Avenue-Lexington Avenue Steinway Tunnel rapid transit railroad (known as the Park Avenue Connection and Steinway Tunnel Extension) to the Rapid Transit Subway Construction Company, and the issue of corporate stock therefor; and the following report of the Comptroller recommending approval thereof:

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau St., New York, October 9, 1914.

To the Board of Estimate and Apportionment of The City of New York:

The Public Service Commission for the First District herewith transmit to you for your consent, as required by law, a proposed contract between The City of New York, Interborough Rapid Transit Company and Rapid Transit Subway Construction Company for the construction of a part of the Seventh Avenue-Lexington Avenue and Steinway Tunnel Rapid Transit Railroads, Routes Nos. 43 and 26, Section No. 1 (Park Avenue Connection), which said section is described as follows:

Section No. 1 of Route No. 43—Beginning under Park Avenue, in the Borough of Manhattan, between East 38th Street and East 41st Street, where suitable track connections can be made with the present Manhattan-Bronx Rapid Transit Railroad; thence running northerly under Park Avenue to East 41st Street; thence curving northeasterly under Park Avenue and East 41st Street to property recently acquired by the City; thence running northeasterly under said property and East 42nd Street to the northerly building line of East 42nd Street, between Lexington Avenue and Depew Place as the latter formerly existed.

Section No. 1, of Route No. 26—Beginning at a point under East 42nd Street in the Borough of Manhattan, opposite the westerly building line of Vanderbilt Avenue and extending thence easterly under East 42nd Street to a point about one hundred (100) feet east of the easterly building line of Lexington Avenue.

Spur to Existing Manhattan-Bronx Rapid Transit Railroad—Beginning at a point under East 42nd Street in the Borough of Manhattan, between Park and Vanderbilt Avenues, where suitable track connections can be made with the existing Manhattan-Bronx Rapid Transit Railroad; thence running easterly under East 42nd Street to a point about forty (40) feet east of the easterly building line of Park Avenue.

The Public Service Commission for the First District requests your Honorable Board to consent to said contract herewith transmitted and to prescribe a limit to the amount of bonds available to meet the requirements of the City's obligation under said contract, to wit, the sum of one million five hundred and forty-eight thousand six hundred and fifty-six dollars and twenty-five cents (\$1,548,656.25), and also to direct the Comptroller of The City of New York to issue the bonds of said City at such a rate of interest as the Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means to meet the City's share of executing said contract, to wit, the sum of one million five hundred and forty-eight thousand six hundred and fifty-six dollars and twenty-five cents (\$1,548,656.25).

The Public Service Commission for the First District does hereby, pursuant to Section 45 of the Greater New York Charter, make request for the authorization of such corporate stock for the full amount sufficient to pay the entire estimated expense to the City of executing said contract, to wit, the sum of one million five hundred and forty-eight thousand six hundred and fifty-six dollars and twenty-five cents (\$1,548,656.25).

This requisition is a subrequisition on account of and not in addition to the requisition made by the Public Service Commission for the First District under date of March 18, 1913, upon your Honorable Board for twenty-eight million two hundred thousand dollars (\$28,200,000) for the purpose of carrying out the contract dated March 19, 1913, known as Contract No. 3, between The City of New York, acting by the Public Service Commission for the First District, and Interborough Rapid Transit Company for additional rapid transit railroads and the appropriation made thereunder by your Honorable Board on March 18, 1913.

In witness whereof, the Public Service Commission for the First District has caused its official seal to be hereto affixed and attested by its Secretary, and these presents to be signed by its Chairman this 9th day of October, 1914.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by EDWARD E. McCALL, Chairman.

(Seal.)

Attest: TRAVIS H. WHITNEY, Secretary.

INVITATION TO CONTRACTORS.

PART OF THE SEVENTH AVENUE-LEXINGTON AVENUE AND STEINWAY TUNNEL RAPID TRANSIT RAILROADS.

The Public Service Commission for the First District (hereinafter called the "Commission") invites proposals to construct Section No. 1 of Route No. 43, a part of the Seventh Avenue-Lexington Avenue Rapid Transit Railroad, and Section No. 1 of Route No. 26, a part of the Steinway Tunnel Rapid Transit Railroad, and to construct a spur to the existing Manhattan-Bronx Rapid Transit Railroad.

The points within the City of New York between which the said parts are to run and the route or routes to be followed are briefly as follows:

Section No. 1 of Route No. 43. Beginning under Park Avenue, in the Borough of Manhattan, between East 38th Street and East 41st Street, where suitable track connections can be made with the present Manhattan-Bronx Rapid Transit Railroad, thence running northerly under Park Avenue to East 41st Street, thence curving northeasterly under Park Avenue and East 41st Street to property recently acquired by the City; thence running northeasterly under said property and East 42nd Street to the northerly building line of East 42nd Street, between Lexington Avenue and Depew Place, as the latter formerly existed.

Section No. 1 of Route No. 26. Beginning at a point under East 42nd Street, in the Borough of Manhattan, opposite the westerly building line of Vanderbilt Avenue, and extending thence easterly under East 42nd Street to a point about one hundred (100) feet east of the easterly building line of Lexington Avenue.

Spur to Existing Manhattan-Bronx Rapid Transit Railroad. Beginning at a point under East 42nd Street, in the Borough of Manhattan, between Park and Vanderbilt Avenues, where suitable track connections can be made with the existing Manhattan-Bronx Rapid Transit Railroad, thence running easterly under East 42nd Street to a point about forty (40) feet east of the easterly building line of Park Avenue.

The general plan of construction calls for a subsurface railroad having four tracks in the case of Route No. 43, and for subsurface railroads having two tracks in the cases of Route No. 26 and the Spur.

The Contractor will not be required to provide or lay permanent tracks, ties or ballast nor to do station finish work.

The work under the contract will include the care and support of buildings, vaults, sewers, pipes, railroads and other surface, subsurface and overhead structures, the maintenance of traffic, the restoration of pavements and other surfaces, and the removal and reconstruction of portions of the Manhattan-Bronx Rapid Transit Railroad and portions of the existing Steinway Tunnel in order to provide a connection with the Railroad.

The removal and reconstruction of portions of said Manhattan-Bronx Rapid Transit Railroad must be so conducted as not to interfere with or interrupt the safe and continuous operation of trains in said Railroad and the Contractor shall be responsible for the support, maintenance, safety and protection of said Railroad including its equipment and rolling stock, and for the safety and protection of passengers and other persons therein. Before commencing any work which may affect said railroad the Contractor must obtain a permit from the Interborough Rapid Transit Company.

The attention of bidders is called to the fact that the adjacent portions of the Steinway Tunnel may be put into operation before the completion of the work under the contract. The Contractor in the event of such operation will be required to conduct his work in such manner as not to interfere with or interrupt the safe and continuous operation of trains in said adjacent portions of the Steinway Tunnel and in such manner as to avoid injury to passengers or other persons in said adjacent portions of the Steinway Tunnel.

In view of the nature of the work the attention of bidders is also called to the fact that the Contractor must be amply able financially to execute the work and to indemnify the Interborough Rapid Transit Company for any loss or expense on account of injuries or damages to person or property or interruption of train operation in the Manhattan-Bronx Rapid Transit Railroad due to the performance

of the work under the contract, and the Contractor must furnish the Commission with a detailed statement of his financial condition.

The method of construction will be partly by trench excavation under cover and partly by tunneling, unless otherwise permitted by the Commission.

Bidders must examine the form of contract and the specifications and contract drawings, must visit the location of the work and inform themselves of the conditions along the line of the work and make their own estimates of the facilities and difficulties attending the execution of the work.

A fuller description of the work and other requirements, provisions, details and specifications are given in the form of contract and in the contract drawings therein referred to. Copies of the forms of contract, bond and contractor's proposal and of the contract drawings may be inspected and purchased at the office of the Commission, No. 154 Nassau Street, Borough of Manhattan, New York City. The forms of contract, bond and contractor's proposal and the contract drawings are to be deemed a part of this invitation.

The City of New York (hereinafter called the "City") and Interborough Rapid Transit Company will both be parties to the contract; the Interborough Rapid Transit Company being a party for the purpose of disbursing part of its contribution toward the cost of construction as provided in the contract dated March 19, 1913, between the City and said Company for additional rapid transit railroads. The liability of Interborough Rapid Transit Company will be limited to an amount equal to fifty per centum (50%) of the total estimated amount to be paid to the Contractor under the contract.

Partial payments to the Contractor will be made as the work proceeds, as provided in the contract.

The Contractor must complete the work within twenty-eight (28) months from the delivery of the contract.

At the time of the delivery of the contract the Contractor must furnish security to the City by depositing a bond, cash or securities in the sum of five hundred thousand dollars (\$500,000). As further security to the City ten per centum (10%) of the amount certified from time to time to be due to the Contractor will be deducted and retained. The Contractor will also be required to furnish security to Interborough Rapid Transit Company, by depositing with said Company cash or securities in the sum of two hundred and fifty thousand dollars (\$250,000). As further security to the Interborough Rapid Transit Company ten per centum (10%) of the amounts certified from time to time to be due to the Contractor from said Company will be deducted and retained by said Company until the amount so deducted and retained shall equal three and one-third per centum (3 1/3%) of the total estimated amount to be paid to the Contractor under the contract.

Sealed bids or proposals will be received at the office of the Commission at No. 154 Nassau Street, Borough of Manhattan, City of New York, until the 6th day of October, 1914, at twelve fifteen (12:15) o'clock p. m., at which time and place, or at a later date to be fixed by the Commission, the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission.

A statement, based upon the estimate of the Chief Engineer of the Commission, of the quantities of the various classes of the work and of the nature and extent as near as practicable of the work is to be found in the schedules in the form of contractor's proposal. The quantities given in such schedules are approximate only, being given as a basis for the uniform comparison of bids, and no claim is to be made against the City on account of any excess or deficiency, absolute or relative, in the same except as provided in the specifications and form of contract.

Every proposal must when submitted be enclosed in a sealed envelope endorsed "Proposals for Constructing Part of Rapid Transit Railroads—Routes Nos. 43 and 26, Section No. 1," and must be delivered to the Commission or its Secretary; and in the presence of the person submitting the proposal, it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be received unless accompanied by a separate certified check for seventy-five thousand dollars (\$75,000), payable to the order of the Comptroller of the City and drawn upon a national or state bank or trust company satisfactory to the Commission and having its principal office in New York City. Such check must not be enclosed in the envelope containing the proposal.

The Unit Prices must not be improperly balanced, and any bid which the Commission considers detrimental to the City's interests may be rejected.

No proposal, after it shall have been deposited with the Commission, will be allowed to be withdrawn for any reason whatever.

The award of the contract will be made by the Commission as soon as practicable after the opening of the proposals.

Deposits made by bidders whose proposals are not accepted will be returned within three (3) days after the contract is executed and delivered and its provisions in respect of the bond or deposit are complied with, unless all proposals shall be rejected, in which event such deposits will be returned within three (3) days after such rejection. The deposit of the successful bidder will be returned when the contract is executed and delivered and its provisions in respect of the bond or deposit are complied with.

The right to reject any and all bids is reserved.

New York, September 11, 1914.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, By EDWARD E. McCALL, Chairman.
TRAVIS H. WHITNEY, Secretary.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.
Contract for the Construction of a Part of a Rapid Transit Railroad, Routes Nos. 43 and 26, Section No. 1.

Approved as to form this day of 1914.

..... Acting Corporation Counsel.

RAPID TRANSIT RAILROAD.

CONTRACT.

Routes Nos. 43 and 26, Section No. 1.

Agreement made this day of 1914, between The City of New York, hereinafter called the City, acting by the Public Service Commission for the First District, hereinafter called the Commission, party of the first part, Interborough Rapid Transit Company, a corporation organized and existing under the laws of the State of New York, hereinafter called the Interborough Company, party of the second part, and hereinafter called the Contractor, part* of the third part.

Whereas, on or about the 19th day of March, 1913, the City, acting by the Commission, entered into a contract with the Interborough Company for the equipment, maintenance and operation of certain additional rapid transit railroads or extensions of the rapid transit railroads now operated by the Interborough Company under lease from the City therein specifically described, including the Railroad to be constructed hereunder, and as one of the terms and conditions of such contract the Interborough Company agreed to contribute toward the cost of construction of such railroads and to disburse part of its said contribution through the medium of construction contracts to which it should be a party for the purpose of making such disbursement; and

Whereas, the Commission, by due advertisement, pursuant to law, has invited contractors to submit to the Commission proposals for making this contract; and

Whereas, the Contractor has thereupon duly submitted to the Commission a proposal, which has been accepted; and

Whereas, the Board of Estimate and Apportionment of The City of New York has consented to this contract;

Now, therefore, in consideration of the mutual covenants and agreements hereinafter contained, and under the authority of chapter 4 of the laws of 1891, entitled "An Act to provide for Rapid Transit Railways in Cities of over One Million Inhabitants," and of the various acts amending the same, the parties do hereby, the City for itself and its successors, the Interborough Company for itself, its successors and assigns, and the Contractor for

and assigns,

Agree with one another as follows:

Chapter I.

GENERAL PROVISIONS AND DEFINITIONS.

Outline of Contract.

Article I. The Contractor agrees to construct the parts hereinafter described of

*Here insert y or ies, as the case may be.

†Here insert, if a corporation, itself, its successors; if a single individual, himself, his executors, administrators; if several individuals, themselves, jointly and severally, and their and each of their executors, administrators.

Rapid Transit Railroads, with their appurtenances. The City and the Interborough Company agree to pay the Contractor the sums of money hereinafter mentioned at the times and in the manner and upon the terms and conditions hereinafter set forth.

Brief Description of Route.

Article II. The Railroad to be constructed under this contract forms part of a certain route adopted by the Commission on June 27, 1913, and known as the Park Avenue-Lexington Avenue Connection at 42nd Street or Route No. 43, and part of a certain route adopted by the Commission on November 2, 1910, and known as the Steinway Tunnel Route or Route No. 26; and also includes a spur to the present Manhattan-Bronx Rapid Transit Railroad. The part to be constructed under this contract consists of

Section No. 1 of Route No. 43.

Beginning under Park Avenue, in the Borough of Manhattan, between East 38th Street and East 41st Street where suitable track connections can be made with the present Manhattan-Bronx Rapid Transit Railroad, thence running northerly under Park Avenue to East 41st Street; thence curving northeasterly under Park Avenue and East 41st Street to property recently acquired by the City; thence running northeasterly under said property and East 42nd Street to the northerly building line of East 42nd Street, between Lexington Avenue and Depew Place as the latter formerly existed.

Section No. 1 of Route No. 26.

Beginning at a point under East 42nd Street in the Borough of Manhattan, opposite the westerly building line of Vanderbilt Avenue and extending thence easterly under East 42nd Street to a point about one hundred (100) feet east of the easterly building line of Lexington Avenue.

Spur to Existing Manhattan-Bronx Rapid Transit Railroad.

Beginning at a point under East 42nd Street in the Borough of Manhattan, between Park and Vanderbilt Avenues where suitable track connections can be made with the existing Manhattan-Bronx Rapid Transit Railroad, thence running easterly under East 42nd Street to a point about forty (40) feet east of the easterly building line of Park Avenue.

The location of the tracks and the dimensions and other characteristics of the Railroad are given in the specifications forming a part of this contract and in the contract drawings hereinafter mentioned.

Statute Incorporated Herein.

Article III. This contract is made pursuant to the Rapid Transit Act, which is to be deemed a part hereof as if it were incorporated herein.

Marginal Notes, etc.

Article IV. Titles, headings, running headlines and marginal notes are printed hereon merely for convenience and shall not be deemed to be any part of this contract for any purpose whatever.

Definitions of Words.

Article V. The following words and expressions used in this contract shall, except where by the context it is clear that another meaning is intended, be construed as follows:

"City."

(1) The word "City" to mean The City of New York, and any other corporation or division of government to which the ownership, rights, powers and privileges of The City of New York under the Rapid Transit Act shall hereafter come, belong or appertain.

"Commission."

(2) The word "Commission" to mean the Public Service Commission for the First District, and any other board, body, commission, official or officials, to which or to whom the powers now belonging to the said Commission in respect of the location, construction, equipment, maintenance and operation of Rapid Transit Railroads under the provisions of the Rapid Transit Act shall, by virtue of any act or acts, hereafter pass or be held to appertain.

"Interborough Company."

(3) The words "Interborough Company" to mean Interborough Rapid Transit Company, party of the second part to this contract, and its successors and assigns.

"Contractor."

(4) The word "Contractor" to mean the part* of the third part to this contract, and assigns and any and every person or corporation who or which shall at any time be liable in the place or for the part of the third part to perform any obligation under this contract assumed by the said part of the third part. For convenience the Contractor is hereinafter referred to as if the Contractor were an individual. The word "he" shall, as the sense may require, include "she," "it" and "they"; the word "him" shall include "her," "it" and "them"; and the word "his" shall include "her," "its" and "their."

"Comptroller."

(5) The word "Comptroller" to mean the Comptroller of The City of New York, and the officer or board to whom or to which his powers now existing under the Rapid Transit Act shall come to or appertain.

"Engineer."

(6) The word "Engineer" to mean the Chief Engineer of the Commission or his duly authorized representative and any successor or successors duly appointed or any deputy or substitute for him who shall be appointed by the Commission or by its authority.

"Inspector."

(7) The word "Inspector" to mean any representative of the Engineer designated by him to act as inspector.

"Rapid Transit Act."

(8) The words "Rapid Transit Act" to mean chapter 4 of the laws of 1891 as amended by chapters 102 and 556 of the laws of 1892, chapters 528 and 752 of the laws of 1894, chapter 519 of the laws of 1895, chapter 729 of the laws of 1896, chapter 616 of the laws of 1900, chapter 587 of the laws of 1901, chapters 533, 542, 544 and 584 of the laws of 1902, chapters 562 and 564 of the laws of 1904, chapters 599 and 631 of the laws of 1905, chapters 472, 606 and 607 of the laws of 1906, chapters 429 and 534 of the laws of 1907, chapter 472 of the laws of 1908, chapter 498 of the laws of 1909, chapters 205, 504, 505 and 506 of the laws of 1910, chapter 888 of the laws of 1911, chapter 226 of the laws of 1912, chapters 100, 510, 524 and 540 of the laws of 1913 and chapter 118 of the laws of 1914, or as heretofore otherwise amended.

"Railroad."

(9) The word "Railroad" to mean the parts of Rapid Transit Railroads, including the spur to the Manhattan-Bronx Rapid Transit Railroad, which the Contractor agrees by this contract to build, together with all appurtenances thereto which are to be constructed or provided by the Contractor.

"Works."

(10) The word "Works" to mean all the matters and things herein agreed to be furnished or done by or on the part of the Contractor.

"New York."

(11) The words "New York" to mean the City of New York according to its boundaries at the date of this contract.

"Daily Newspaper."

(12) The words "daily newspaper" to mean any paper regularly published in New York on every day or every day except Sundays and holidays.

"Notice."

(13) The word "notice" to mean a written notice.

"Direction," Etc.

(14) The words "directed," "required," "permitted," "ordered," "designated," "prescribed" or words of like import used in the specifications or upon the drawings to mean, respectively, the direction, requirement, permission, order, designation or prescription of the Engineer, and similarly the words "approved," "acceptable," "satisfactory" or words of like import to mean respectively, approved by, or acceptable or satisfactory to, the Engineer.

"Ton."

(15) The word "ton" to mean the short ton of two thousand (2,000) pounds.

Legal Address of Contractor—Address May Be Changed.

Article VI. The Contractor hereby designates Room No. on the floor of the building No. in the Borough of ... in the City of New York as the place where all notices, directions and other communications to the Contractor may be served, mailed or delivered. The delivering at the above-named place or depositing in a post-paid wrapper directed to the

*Here and in like blanks hereafter insert y or ies, as the case may be.

†Here insert, as the case may be, either its successors, or his executors, administrators, or their executors, administrators.

above place, in any post-office box regularly maintained by the Post-office Department, of any notice, letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor as of the date of such delivery or deposit. Such address may be changed at any time by an instrument in writing executed and acknowledged by the Contractor and delivered to the Commission. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, direction or other communication upon the Contractor personally.

Contractor Responsible for Acts of Sub-contractor's Employees.

Article VII. If the Contractor shall cause any part of this contract to be performed by a sub-contractor, the provisions of this contract shall apply to such sub-contractor and his officers, agents and employees in all respects, as if he and they were employees of the Contractor; and the Contractor shall not be in any manner thereby discharged from his obligations and liabilities hereunder, but shall be liable hereunder for all acts and negligence of the sub-contractor, his officers, agents and employees as if they were employees of the Contractor. The employees of the sub-contractor shall be subject to the same provisions hereof as employees of the Contractor; and the work or materials furnished by the sub-contractor shall be subject to the provisions hereof, as if furnished directly by the Contractor.

Commission May Disapprove Sub-contractors.

Article VIII. The Contractor, before making any sub-contract of the work, shall state in writing to the Commission the name of the proposed sub-contractor, the portion of the work which such sub-contractor is to do or the materials which such sub-contractor is to furnish, the place of business of such sub-contractor and such other information as the Commission may require. The Commission shall have the right to require the Contractor not to award any sub-contract to a person, firm or corporation disapproved of by the Commission.

Chapter II.

WORK TO BE DONE, PRICES, ETC. Work to Be Done.

Article IX. The Contractor shall furnish all the labor and materials, plant, power, tools, supplies and other means of construction necessary or proper for constructing and completing the Railroad and performing all the work which the Contractor agrees by this contract to perform in the manner and within the time hereinafter specified. He shall complete the Railroad and do all work and furnish all labor and materials in and about the construction of the Railroad to the satisfaction of the Commission and in accordance with this contract and the specifications and drawings herein mentioned at the prices herein agreed upon and fixed therefor; provided, however, that said contract drawings may from time to time be altered or modified as hereinafter provided.

Construction Includes Incidental Work.

Article X. In order to construct the Railroad it will be necessary to take up and relay the sidewalk and roadway pavement or other surface material and to protect, support and maintain all buildings and other structures, including their foundations, and all surface, subsurface and elevated railroads, water mains, gas pipes, electric subways, poles and wires, pneumatic tubes, mail tubes, vaults, including vaults of abutting property, and other surface, subsurface and overhead structures, with their connections, as the same may be met along the route; to build sewers both along the route and other streets; to make or remake the necessary manholes, catch basins and other sewer connections therewith; to move, alter, readjust or rebuild water mains, gas pipes, electric subways, pneumatic tubes, mail tubes, vaults, including vaults of abutting property, and other surface, subsurface and overhead structures, with their connections; to remove and reconstruct portions of the existing Manhattan-Bronx Rapid Transit Railroad and portions of the existing Steinway Tunnel in order to provide connections with the Railroad and as otherwise necessary, and to do all such additional and incidental work as may be necessary for the completion of the Railroad and the reconstruction and restoration of the street pavements and other surfaces and of all surface, subsurface and overhead structures and of all abutting property and buildings which may have been directly or indirectly affected, disturbed or injured by the Contractor in the progress of the work of construction, to as useful, safe, durable and good a condition as existed before construction was begun. All such work of every description, including underpinning or the maintaining, protecting and securing wherever necessary, of all buildings and structures of whatsoever nature and surface, subsurface and elevated railroads affected by or interfered with during the construction of the Railroad, is part of the work which is included in this contract and which the Contractor agrees to perform for the prices herein agreed upon.

Prices.

Article XI. The City and the Interborough Company will pay in the respective proportions and amounts and in the manner hereinafter provided and the Contractor shall receive, in full compensation for constructing and completing the Railroad (including all incidental work) and for performing and completing the Works and for all expense in connection therewith or incidental thereto, including the furnishing of all labor, materials, plant, power, tools, supplies and other means of construction and including administration, superintendence and insurance, and for all loss or damage arising out of the nature of the work aforesaid or from the action of the elements or from any unforeseen obstruction or difficulty encountered in the prosecution of the work, and for all risks of any description connected with the work, and for all expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, the prices contained in the Schedules of Unit Prices following. It is specifically understood and agreed, however, that the Interborough Company is a party to this contract solely for the purpose of making its contribution toward the cost of construction of the Railroad, as provided in the said contract dated March 19, 1913, and its sole obligation under this contract is to make the payments in the manner and to the amount hereinafter provided.

Two Schedules.

For purposes of payment the work will be divided into two parts and there will be two Schedules of Unit Prices—one of which is entitled "Schedule of Unit Prices for Route No. 43, Section No. 1," and the other of which is entitled "Schedule of Unit Prices for Route No. 26, Section No. 1." All the work south of the southerly building line of East 42nd Street or said building line produced, except the ventilation shaft near the southeast corner of East 42nd Street and Park Avenue, and all the work in East 42nd Street above the Steinway Tunnel, including the elevator and stairway shaft construction to the Steinway Tunnel level above elevation +111.62, will be measured and paid for at the prices stipulated in the Schedule for Route No. 43, Section No. 1. All work not included in the Schedule for Route No. 43, Section No. 1, will be measured and paid for at the prices stipulated in the Schedule for Route No. 26, Section No. 1.

Schedule of Unit Prices for Route No. 43, Section No. 1.

Item 1. For earth excavation above mean high water (except tunnel excavation and excavation for sewers, pipes and ducts), including the disposal of it, etc., the sum of five dollars (\$5) per cubic yard.

Item 2-A. For earth excavation (except tunnel excavation) both above and below mean high water, for sewers, pipes and ducts other than street railroad ducts (except as provided in Section No. 449 of the Specifications), including the disposal of it, etc., the sum of five dollars (\$5) per cubic yard.

Item 3. For rock excavation (except tunnel excavation and excavation for sewers, pipes and ducts), including the disposal of it, etc., the sum of seven dollars (\$7) per cubic yard.

Item 3-A. For rock excavation (except tunnel excavation), for sewers, pipes and ducts other than street railroad ducts (except as provided in Section No. 449 of the Specifications), including the disposal of it, etc., the sum of five dollars (\$5) per cubic yard.

Item 4-BB. For maintaining, protecting and securing, and underpinning where necessary, adjacent buildings, including all incidental work, labor and material, as follows:

(a) For the twelve (12) story Terminal Building No. 103 Park Avenue at the S. E. corner Park Avenue and East 41st Street, the sum of ten thousand dollars (\$10,000).

(b) For the four (4) story building Nos. 118-120 East 42nd Street, the sum of five thousand dollars (\$5,000).

Item 4-CC. For maintaining, protecting and securing or in lieu thereof removing and reconstructing the retaining walls in Park Avenue within the limits of open cut excavation together with the footbridge at East 41st Street, as required by Section No. 449 of the Specifications, the sum of ten thousand dollars (\$10,000).

Item 5. For tunnel excavation, including timbering, the disposal of material, etc., as follows:

(a) For the south-bound local track in Park Avenue, from Sta. 202+08 to Sta. 204+25, the sum of twenty dollars (\$20) per cubic yard.

(b) For the south-bound local track in Park Avenue, from Sta. 204+25 to 50 feet north of the centre line of East 41st Street, including the bridge pier at Sta. 210+22, the sum of eleven dollars (\$11) per cubic yard.

(c) For the express tracks in Park Avenue, from Sta. 204+60 to Sta. 207+16, including the cross passage and signal tower at Sta. 204+70, the sum of twenty dollars (\$20) per cubic yard.

(d) For the express tracks in Park Avenue, from Sta. 207+16 to Sta. 210+19, the sum of thirteen dollars (\$13) per cubic yard.

(e) For the north-bound local track in Park Avenue, from Sta. 208+47 to Sta. 209+53, the sum of thirty dollars (\$30) per cubic yard.

Item 5-A. For tunnel excavation, both above and below mean high water, for sewers and the additional shaft provided in Section No. 21 of the Specifications, including the disposal of it, the sum of twelve dollars (\$12) per cubic yard.

Item 6. For concrete masonry, in place, the sum of eleven dollars (\$11) per cubic yard.

Item 7. For protective concrete masonry, in place, outside of waterproofing, the sum of eleven dollars (\$11) per cubic yard.

Item 8. For rubble stone masonry, in place, the sum of eight dollars (\$8) per cubic yard.

Item 8-A. For dry rubble masonry, in place, the sum of six dollars (\$6) per cubic yard.

Item 9. For brick masonry, in place, the sum of twenty dollars (\$20) per cubic yard.

Item 10. For hollow terra cotta brick or tile masonry of any thickness, in place, the sum of fifteen dollars (\$15) per cubic yard.

Item 11. For grout of Portland cement, the sum of three dollars and fifty cents (\$3.50) per barrel of Portland cement used.

Item 11-A. For resurfacing old concrete masonry with neat Portland cement mortar, as required by Section No. 449 of the Specifications, the sum of five dollars (\$5) per square yard.

Item 12. For timber piles, in place and prepared, the sum of seventy-five cents (\$0.75) per lineal foot.

Item 13. For timber foundations, placed and fastened, the sum of one hundred dollars (\$100) per thousand feet, board measure.

Item 14. For broken stone or gravel, in place, other than that used in concrete, the sum of two dollars and fifty cents (\$2.50) per cubic yard.

Item 15. For waterproofing, treated woven fabric (except dry ply), laid with coal-tar pitch or asphalt, in place, as follows:

(a) For one-ply, the sum of seventy-five cents (\$0.75) per square yard.

(b) For two-ply, the sum of one dollar (\$1) per square yard.

(c) For three-ply, the sum of one dollar and twenty-five cents (\$1.25) per square yard.

(d) For four-ply, the sum of one dollar and fifty cents (\$1.50) per square yard.

(e) For five-ply, the sum of two dollars (\$2) per square yard.

(f) For six-ply, the sum of two dollars and twenty-five cents (\$2.25) per square yard.

(i) For dry-ply, the sum of sixty cents (\$0.60) per square yard.

Item 16. For waterproofing, brick laid in asphalt mastic, in place, the sum of thirty-five dollars (\$35) per cubic yard.

Item 17. For vitrified or cast-iron drain pipe, in place, as follows:

(a) For twelve (12) inch vitrified pipe, the sum of eighty cents (\$0.80) per lineal foot.

(b) For ten (10) inch vitrified pipe, the sum of seventy cents (\$0.70) per lineal foot.

(c) For eight (8) inch vitrified pipe, the sum of sixty cents (\$0.60) per lineal foot.

(d) For six (6) inch vitrified pipe, the sum of fifty cents (\$0.50) per lineal foot.

(e) For four (4) inch vitrified pipe, the sum of forty cents (\$0.40) per lineal foot.

(f) For eight (8) inch cast-iron pipe, the sum of one dollar and fifty cents (\$1.50) per lineal foot.

(g) For six (6) inch cast-iron pipe, the sum of one dollar and ten cents (\$1.10) per lineal foot.

(h) For four (4) inch cast-iron pipe, the sum of eighty cents (\$0.80) per lineal foot.

(i) For ten (10) inch cast-iron pipe, the sum of two dollars (\$2) per lineal foot.

Item 17-A. For cast-iron pipe and fittings, including specials, "extra heavy," in place, as follows:

(a) For three (3) inch, the sum of one dollar (\$1) per lineal foot.

(b) For four (4) inch, the sum of one dollar and twenty-five cents (\$1.25) per lineal foot.

(c) For six (6) inch, the sum of one dollar and seventy-five cents (\$1.75) per lineal foot.

(d) For eight (8) inch, the sum of two dollars (\$2) per lineal foot.

Item 18. For Tunnel ducts, in place, as required by Section No. 407 of the Specifications, the sum of fifteen cents (\$0.15) per duct foot.

Item 18-A. For Railroad ducts, in place, as required by Section No. 407 of the Specifications, the sum of seventeen cents (\$0.17) per duct foot.

Item 19. For riveted steel, painted and erected, the sum of ninety-five dollars (\$95) per ton.

Item 19-C. For the removal and disposal of old steel, including all incidental work, as required by Section No. 449 of the Specifications, the sum of fifty dollars (\$50) per ton.

Item 19-F. For placing and removing temporary construction columns, as required by Section No. 449 of the Specifications, the sum of twenty dollars (\$20) per lineal foot of roof supported.

Item 20. For steel beams and shapes with or without connections, painted and erected, the sum of seventy-two dollars (\$72) per ton.

Item 20-A. For drilling holes in steel, including all incidental work, as required by Section No. 449 of the Specifications, the sum of two dollars (\$2) per hole.

Item 21. For steel rods and bars built in concrete, the sum of one hundred dollars (\$100) per ton.

Item 25. For miscellaneous iron castings, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes, in place, the sum of seventy-five dollars (\$75) per ton.

Item 25-C. For miscellaneous iron furnishings for sewer manholes and basins, both cast and wrought, such as manhole and basin heads, covers, inlet gratings or bars, manhole steps, etc., but not including pipe, in place, the sum of seventy-five dollars (\$75) per ton.

Item 26. For special wire forms, in place, the sum of ten cents (\$0.10) per pound.

Item 27-B. For one and three-fourths (1 3/4) inch seasoned oak or ash hand-rail, in place, including finishing, oiling and connections, the sum of sixty cents (\$0.60) per lineal foot of rail.

Item 28. For steel gratings for ventilation, in place, including frames, etc., the sum of one dollar and fifty cents (\$1.50) per square foot.

Item 29. For vault lights, in place, the sum of one dollar and fifty cents (\$1.50) per square foot.

Item 30. For street surface restored, as follows:

(a) Within curb lines, including curbs and all structures and growths therein or thereon, the sum of two dollars and seventy-five cents (\$2.75) per square yard.

(e) For repavement of roadways between curb lines with Asphalt pavement the sum of three dollars (\$3) per square yard.

(f) For repavement of roadways between curb lines with Granite Block pavement, the sum of four dollars (\$4) per square yard.

(g) For repavement of roadways between curb lines with Asphalt Block pavement, the sum of three dollars and fifty cents (\$3.50) per square yard.

(i) For new bluestone curb, in place, including all incidental work, labor and material, the sum of one dollar and fifty cents (\$1.50) per lineal foot.

(k) For new eight (8) inch granite curb, in place, including all incidental work, labor and material, the sum of two dollars (\$2) per lineal foot.

Item 32. For wrought-iron electric conduits, in place, in stations, as follows:

- (a) For three-fourths ($\frac{3}{4}$) inch wrought-iron conduits, the sum of twenty-five cents (\$0.25) per lineal foot.
 (b) For one and one-half ($1\frac{1}{2}$) inch wrought-iron conduits, the sum of forty cents (\$0.40) per lineal foot.
 (c) For two (2) inch wrought-iron conduits, the sum of fifty cents (\$0.50) per lineal foot.
 (d) For one (1) inch wrought-iron conduits, the sum of thirty cents (\$0.30) per lineal foot.
 Item 33. For cast-iron outlet boxes, in place, in stations, the sum of one dollar (\$1) each.
 Item 33-A. For cast-iron pull boxes, in place, in stations, the sum of five dollars (\$5) each.
 Item 34. For cast-iron pipe and fittings, including specials, "extra heavy," in place, in stations, as follows:
 (a) For six (6) inch, the sum of two dollars (\$2) per lineal foot.
 (b) For three (3) inch, the sum of one dollar (\$1) per lineal foot.

Sewers.

Vitrified and Cast-Iron Pipe.

- Item 37. For twelve (12) inch vitrified pipe sewer, the sum of five dollars (\$5) per lineal foot.
 Item 38. For fifteen (15) inch vitrified pipe sewer, the sum of six dollars (\$6) per lineal foot.
 Item 39. For eighteen (18) inch vitrified pipe sewer, the sum of seven dollars (\$7) per lineal foot.
 Item 41. For twenty-four (24) inch vitrified pipe sewer, the sum of eight dollars (\$8) per lineal foot.
 Item 42. For cast-iron sewer pipe (straight pipe), in place in the work, the sum of fifty dollars (\$50) per ton.
 Item 43. For cast-iron sewer pipe (special castings), in place in the work, the sum of seventy-five dollars (\$75) per ton.
 Circular Sewers—Brick or Concrete or Reinforced Concrete.
 Item 52. For 3 feet nine inches, the sum of ten dollars (\$10) per lineal foot.
 Item 53. For four feet, the sum of twelve dollars (\$12) per lineal foot.
 Item 56. For five feet, the sum of fourteen dollars (\$14) per lineal foot.
 Item 59. For 5 feet 9 inches, the sum of twenty dollars (\$20) per lineal foot.
 Item 60. For 6 feet the sum of twenty-five dollars (\$25) per lineal foot.

Special Sewers and Sluice Gates.

- Item 74-D. For 18-inch standard iron, bronze mounted, self-contained type, circular sluice gates, with spigots, in place in the work, the sum of one hundred dollars (\$100) each.

Surface, Subsurface and Overhead Structures.

- Item 75. For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed, in excess of the number existing), as follows:
 (a) For electric (underground trolley) railroads, the sum of fifteen dollars (\$15) per lineal foot of single track.
 Item 76. For the temporary and permanent support and maintenance of elevated railroad structures and their appurtenances, and all work incidental thereto, as follows:

- (a) For elevated railroad columns supported entirely upon the railroad structure, the sum of seven hundred fifty dollars (\$750) per column.
 (b) For elevated railroad columns supported partly or entirely off the Railroad structure, the sum of one thousand dollars (\$1,000) per column.
 Item 76-J. For the support, maintenance, safety, protection and underpinning of the Manhattan-Bronx Rapid Transit Railroad, and for the safety and protection of all passengers and other persons therein, the sum of sixty thousand dollars (\$60,000).

Pipes in Streets—For Work and Material as Called for by the Specifications.

Water Pipes.

- For water pipes, including all appurtenances, in place, as follows:
 Item 79. For 6-inch water pipe, the sum of one dollar (\$1) per lineal foot.
 Item 82. For 12-inch water pipe, the sum of one dollar and fifty cents (\$1.50) per lineal foot.
 Item 84. For 20-inch water pipe, the sum of three dollars (\$3) per lineal foot.
 Item 86. For 30-inch water pipe, the sum of five dollars (\$5) per lineal foot.
 Item 88. For 48-inch water pipe, the sum of eight dollars (\$8) per lineal foot.
 Item 88-A. For service connections for water pipes, all sizes, the sum of twenty dollars (\$20) each.

Gas Pipes.

- For cast-iron gas pipes, including all appurtenances, in place, as follows:
 Item 90. For 4-inch gas pipe, the sum of seventy-five cents (\$0.75) per lineal foot.
 Item 91. For 6-inch gas pipe, the sum of one dollar (\$1) per lineal foot.
 Item 92. For 8-inch gas pipe, the sum of one dollar and twenty-five cents (\$1.25) per lineal foot.
 Item 94. For 12-inch gas pipe, the sum of one dollar and fifty cents (\$1.50) per lineal foot.
 Item 95. For 16-inch gas pipe, the sum of two dollars (\$2) per lineal foot.
 Item 96. For 20-inch gas pipe, the sum of two dollars and fifty cents (\$2.50) per lineal foot.
 Item 99-A. For wrought-iron by-passing pipes upon or below the street surface, in place, as follows:
 (a) For 6-inch by-passing pipe, the sum of three dollars (\$3) per lineal foot.
 (b) For 8-inch by-passing pipe, the sum of four dollars and fifty cents (\$4.50) per lineal foot.
 Item 99-B. For wrought-iron by-passing pipes above the street surface, on trestle, in place, as follows:
 (a) For 12-inch wrought-iron by-passing pipe, the sum of seven dollars (\$7) per lineal foot.
 (b) For 16-inch wrought-iron by-passing pipe, the sum of ten dollars (\$10) per lineal foot.
 (c) For 20-inch wrought-iron by-passing pipe, the sum of twelve dollars (\$12) per lineal foot.
 (h) For trestle to support by-passing pipes, in place in the work, the sum of four dollars (\$4) per lineal foot of trestle.
 Item 99-C. For wrought-iron gas pipes, including all appurtenances, in place, as follows:
 (b) For 6-inch gas pipe, the sum of one dollar and fifty cents (\$1.50) per lineal foot.
 (c) For 8-inch gas pipe, the sum of one dollar and seventy-five cents (\$1.75) per lineal foot.
 (e) For 12-inch gas pipe, the sum of three dollars (\$3) per lineal foot.
 Item 99-D. For service connections for gas pipes, all sizes, the sum of twenty dollars (\$20) each.

New Water and Gas Pipes.

- Item 100. For new cast-iron hub and spigot straight pipe, actually used, as measured in place in the work, the sum of forty dollars (\$40) per ton.
 Item 100-A. For new standard weight wrought-iron gas pipe, threads and couplings included, actually used, as measured in place in the work, as follows:
 (b) For 6-inch gas pipe, the sum of one dollar and fifty cents (\$1.50) per lineal foot.
 (c) For 8-inch gas pipe, the sum of two dollars (\$2) per lineal foot.
 (e) For 12-inch gas pipe, the sum of three dollars (\$3) per lineal foot.
 Item 101. For new cast-iron hub and spigot pipe, special castings, actually used, as measured in place in the work, the sum of seventy-five dollars (\$75) per ton.
 Item 101-A. For new malleable iron fittings for new wrought-iron gas pipe, actually used, as measured in place in the work, the sum of twelve cents (\$0.12) per pound.

High Pressure Fire System Pipes, Standard Spigot and Groove.

- For high pressure fire system pipes, including all appurtenances, in place, as follows:
 Item 102. For 8-inch high pressure fire system water pipe, the sum of three dollars (\$3) per lineal foot.
 Item 103. For 12-inch high pressure fire system water pipe, the sum of four dollars (\$4) per lineal foot.

- Item 104. For 16-inch high pressure fire system water pipe, the sum of five dollars (\$5) per lineal foot.

New Cast-iron Spigot and Groove Pipes for High Pressure Fire System.

- Item 107. For new cast-iron spigot and groove straight pipe actually used, as measured in place in the work, the sum of forty-five dollars (\$45) per ton.
 Item 108. For new cast-iron spigot and groove pipe, special castings, actually used, as measured in place in the work, the sum of eighty dollars (\$80) per ton.

Air Pipes.

For air pipes, including all appurtenances, in place, as follows:

- Item 121. For 6-inch air pipe, the sum of one dollar and twenty-five cents (\$1.25) per lineal foot.

New Air Pipes.

For new air pipes, including specials and all other appurtenances, actually used, as measured in place in the work, as follows:

- Item 123. For new 6-inch air pipe, the sum of two dollars and fifty cents (\$2.50) per lineal foot.

Mail Tubes.

For mail tubes, including all appurtenances, in place, as follows:

- Item 125. For 8-inch mail tube, the sum of three dollars (\$3) per lineal foot.
 Item 126-C. For new mail tubes, including all appurtenances, actually used, as measured in place in the work, as follows:

- (a) For new 8-inch mail tube, straight pipe, the sum of three dollars (\$3) per lineal foot.
 (b) For new 8-inch mail tube, curved pipe, the sum of five dollars (\$5) per lineal foot.

Ducts Found in Streets.

Electric Ducts and Conduits in Streets.

[Other than street railroad ducts, which are provided for in Schedule Item 75-(a) (except as provided in Section No. 449 of the Specifications).]

- Item 127. For electric ducts and conduits, in place, as provided in Section No. 62 of the Specifications, the sum of sixty cents (\$0.60) per duct foot.
 Item 127-A. For wrought-iron pipe electric ducts and conduits, in place, as provided in Section No. 62 of the Specifications, as follows:

- (a) For 2½-inch wrought-iron pipe, the sum of sixty cents (\$0.60) per lineal foot.
 (b) For 3-inch wrought-iron pipe, the sum of sixty-five cents (\$0.65) per lineal foot.
 (c) For 3½-inch wrought-iron pipe, the sum of seventy cents (\$0.70) per lineal foot.
 (d) For 4-inch wrought-iron pipe, the sum of seventy-five cents (\$0.75) per lineal foot.
 (f) For 2-inch Edison conduit, the sum of fifty cents (\$0.50) per lineal foot.
 (g) For 2½-inch Edison conduit, the sum of sixty cents (\$0.60) per lineal foot.
 (h) For 3-inch Edison conduit, the sum of seventy cents (\$0.70) per lineal foot.

- Item 127-C. For service connections for electric ducts, all sizes, the sum of twenty dollars (\$20) each.

Schedule of Unit Prices, for Route No. 26, Section No. 1.

- Item 1. For earth excavation above mean high water (except tunnel excavation), including the disposal of it, etc., the sum of five dollars (\$5) per cubic yard.
 Item 3. For rock excavation (except tunnel excavation), including the disposal of it, etc., the sum of ten dollars (\$10) per cubic yard.
 Item 5. For tunnel excavation, including timbering, the disposal of material, etc., the sum of twelve dollars (\$12) per cubic yard.
 Item 6. For concrete masonry, in place, the sum of six dollars (\$6) per cubic yard.
 Item 7. For protective concrete masonry in place, outside of waterproofing, the sum of eleven dollars (\$11) per cubic yard.
 Item 9. For brick masonry, in place, the sum of twenty dollars (\$20) per cubic yard.

- Item 10. For hollow terra cotta brick or tile masonry of any thickness, in place, the sum of fifteen dollars (\$15) per cubic yard.

- Item 11. For grout of Portland cement, the sum of three dollars and fifty cents (\$3.50) per barrel of Portland cement used.

- Item 14. For broken stone or gravel, in place, other than that used in concrete the sum of two dollars and fifty cents (\$2.50) per cubic yard.

- Item 15. For waterproofing, treated woven fabric (except dry-ply), laid with coal-tar pitch or asphalt, in place, as follows:

- (a) For one-ply, the sum of sixty cents (\$0.60) per square yard.
 (b) For two-ply, the sum of seventy-five cents (\$0.75) per square yard.
 (c) For three-ply, the sum of one dollar (\$1.00) per square yard.
 (d) For four-ply, the sum of one dollar and twenty-five cents (\$1.25) per square yard.
 (e) For five-ply, the sum of one dollar and fifty cents (\$1.50) per square yard.
 (f) For six-ply, the sum of one dollar and seventy-five cents (\$1.75) per square yard.
 (i) For dry-ply, the sum of fifty cents (\$0.50) per square yard.
 Item 15-A. For waterproofing, treated woven fabric, laid with coal-tar pitch (in tunnel), in place, as follows:
 (a) For one-ply, the sum of one dollar (\$1.00) per square yard.
 (b) For two-ply, the sum of one dollar and fifty cents (\$1.50) per square yard.
 (c) For three-ply, the sum of two dollars (\$2.00) per square yard.
 (d) For four-ply, the sum of two dollars and fifty cents (\$2.50) per square yard.
 (e) For five-ply, the sum of three dollars (\$3.00) per square yard.
 (f) For six-ply, the sum of three dollars and fifty cents (\$3.50) per square yard.

- Item 16. For waterproofing, brick laid in asphalt mastic, in place, the sum of forty dollars (\$40.00) per cubic yard.

- Item 17. For vitrified or cast iron pipe, in place, as follows:

- (a) For twelve (12) inch vitrified pipe, the sum of seventy-five cents (\$0.75) per lineal foot.
 (b) For ten (10) inch vitrified pipe, the sum of sixty-five cents (\$0.65) per lineal foot.
 (c) For eight (8) inch vitrified pipe, the sum of fifty cents (\$0.50) per lineal foot.
 (d) For six (6) inch vitrified pipe, the sum of forty cents (\$0.40) per lineal foot.
 (e) For four (4) inch vitrified pipe, the sum of thirty-five cents (\$0.35) per lineal foot.
 (g) For six (6) inch cast iron pipe, the sum of one dollar and fifty cents (\$1.50) per lineal foot.
 (h) For four (4) inch cast iron pipe, the sum of one dollar (\$1.00) per lineal foot.

- Item 17-A. For cast iron pipe and fittings, including specials, "extra heavy," in place, as follows:

- (a) for three (3) inch, the sum of one dollar (\$1.00) per lineal foot.
 (b) For four (4) inch, the sum of one dollar and twenty-five cents (\$1.25) per lineal foot.
 (c) For six (6) inch, the sum of one dollar and seventy-five cents (\$1.75) per lineal foot.
 (d) For eight (8) inch, the sum of two dollars (\$2.00) per lineal foot.

- Item 18. For Tunnel ducts, in place, as required by Section No. 407 of the Specifications, the sum of twenty-five cents (\$0.25) per duct foot.

- Item 19. For riveted steel, painted and erected, the sum of eighty dollars (\$80.00) per ton.

- Item 20. For steel beams and shapes with or without connections, painted and erected, the sum of seventy-two dollars (\$72.00) per ton.

- Item 21. For steel rods and bars built in concrete, the sum of eighty dollars (\$80.00) per ton.

- Item 25. For miscellaneous iron castings, such as manhole heads and covers, gratings, etc., but not including pipes, in place, the sum of seventy-five dollars (\$75.00) per ton.

- Item 26. For special wire forms, in place, the sum of ten cents (\$0.10) per pound.

- Item 27-B. For one and three-fourths ($1\frac{3}{4}$) inch seasoned oak or ash hand

rail, in place, including finishing, oiling and connections, the sum of sixty cents (\$0.60) per lineal foot of rail.

Item 28. For steel gratings for ventilation, in place, including frames, etc., the sum of one dollar and fifty cents (\$1.50) per square foot.

Item 30. For street surface restored, as follows:

(a) Within curb lines, including curbs and all structures and growths therein or thereon, the sum of two dollars and seventy-five cents (\$2.75) per square yard.

(i) For new bluestone curb, in place, including all incidental work, labor and material, the sum of one dollar and fifty cents (\$1.50) per lineal foot.

(k) For new eight (8) inch granite curb, in place, including all incidental work, labor and material, the sum of two dollars (\$2.00) per lineal foot.

Item 32. For wrought iron electric conduits, in place, in stations, as follows:

(a) For three-fourths (¾) inch wrought iron conduits, the sum of twenty-five cents (\$0.25) per lineal foot.

(b) For one and one-half (1½) inch wrought iron conduits, the sum of forty cents (\$0.40) per lineal foot.

(c) For two (2) inch wrought iron conduits, the sum of fifty cents (\$0.50) per lineal foot.

(d) For one (1) inch wrought iron conduits, the sum of thirty cents (\$0.30) per lineal foot.

Item 33. For cast iron outlet boxes, in place, in stations, the sum of one dollar (\$1.00) each.

Item 33-A. For cast iron pull boxes, in place, in stations, the sum of five dollars (\$5.00) each.

Item 34. For cast iron pipe and fittings, including specials, "extra heavy," in place, in stations, as follows:

(a) For six (6) inch, the sum of two dollars (\$2.00) per lineal foot.

(b) For three (3) inch, the sum of one dollar (\$1.00) per lineal foot.

QUANTITIES.

Prices for Work Not Susceptible of Classification.

Article XII. In case any work or materials shall be required to be done or furnished in or about the Works which it is elsewhere in this contract expressly provided shall be paid for under this article, or in case any work or materials shall be required to be done or furnished in or about the Works which are not contemplated, mentioned, specified or indicated or otherwise provided for in this contract or in the specifications forming a part of this contract or in or upon the contract drawings and which in the opinion of the Engineer are not susceptible of classification under the Items of the Schedules of Unit Prices, the Contractor shall if ordered by the Engineer do and perform such work and furnish such materials at and for the actual and necessary net cost in money to the Contractor for labor, for insurance upon such labor under the Workmen's Compensation Law and for materials incorporated in the work and in addition thereto ten per centum (10%) of such net cost, and the Contractor shall have no claim in excess of the above, such payment being in full compensation for the performance of such work and the furnishing of such materials and for all expense in connection therewith or incidental thereto, as aforesaid, including the expense of plant, power, tools, supplies and other means of construction, administration, superintendence and insurance and for all the loss, damage, risks and expenses hereinbefore in Article XI mentioned. The amount of the insurance upon such labor under the Workmen's Compensation Law shall be determined by the amount of wages actually and necessarily paid for such labor and the rate of insurance for such labor either in the State Insurance Fund or in any stock corporation or mutual association authorized to transact the business of workmen's compensation insurance in this State, as the case may be. If the Contractor shall not have insured either in such State Insurance Fund or in any such stock corporation or mutual association, the rate allowed will be the rate which he would have been required to pay for such insurance in the State Insurance Fund had he insured therein. Payment shall not be made under this Article for any such work or materials which are so required to be done or furnished in or about the Works and which are not contemplated, mentioned, specified or indicated or otherwise provided for in this contract or in the specifications forming a part of this contract or in or upon the contract drawings so far as such work or materials may be, in the opinion of the Engineer, susceptible of classification under the Items of the Schedules of Unit Prices, which work or materials shall be paid for in part or in whole, as the case may be, at the unit prices given in the Items of the Schedules.

Daily Report in Detail Required.

In case any work or material shall be required to be done or furnished under the provisions of this Article, for cost plus ten (10%) per centum, the Contractor shall at the end of each day furnish to the Engineer daily time slips showing the name and number of each workman employed on such work, the number of hours employed thereon, the character of work he is doing and the wages paid or to be paid to him and also a daily memorandum of such materials furnished showing the amount and character of such materials, from whom purchased and the amount paid or to be paid therefor. If required by the Engineer or the Commission, the Contractor shall produce any books, vouchers, records and memoranda showing the labor and materials actually paid for and the actual prices therefor. Such daily time slips and memoranda shall not, however, be binding upon the City, and if any question or dispute shall arise as to the correct cost of such labor or materials, the determination of the Engineer upon such question shall be final and conclusive.

Engineer to Fix Unit Prices.

Instead of the method above described in this Article for paying for any such work or materials to be paid for under this Article, the Engineer may, but only with the approval of the Commission, agree with the Contractor upon unit prices or a lump sum price for such work and materials. Such additional unit prices or such lump sum price shall be embodied in a supplemental schedule which shall be deemed to be a part of this contract in all respects as if such additional unit prices or such lump sum price had been originally a part of the Schedules of Unit Prices contained in this contract.

Quantities Approximate Only.

Article XIII. The quantities of the various classes of work to be done and materials to be furnished under this contract, specified in the Contractor's Proposal, are approximate and only for the purpose of comparing, on a uniform basis, the bids offered for the Works under this contract; and neither the City, nor the Commission, nor any member of the Commission, nor the Interborough Company, is to be held responsible that any of the said estimated quantities shall be found even approximately correct in the construction of the Works; and the Contractor shall make no claim for damages or for anticipated profit, or for loss of profit, because of a difference between the quantities of the various classes of work actually done or materials actually delivered, and the estimated quantities of items stated in the Contractor's Proposal, or because of the entire omission of any of the quantities of items stated in the Contractor's Proposal.

Right of Commission to Amplify Drawings.

Article XIV. The Commission shall have the right, during the progress of the work, to amplify the drawings, to add explanatory specifications and to furnish additional specifications and drawings.

Drawings May Be Modified.

Article XV. The Commission further reserves the right to alter, in any way it may deem necessary for the public interests, the drawings aforesaid, in part or altogether, at any time during the progress of the work, without constituting grounds for any claim by the Contractor for payment or allowance for damages or extra service other than is provided for items of the different classes of construction under the Items of the Schedules or in Article XII.

Contractor Bound to Complete in Best Manner.

Article XVI. The Contractor shall complete the entire work to the satisfaction of the Commission and in accordance with the specifications and contract drawings and according to the other provisions of this contract and within the time specified in this contract in the most workmanlike manner and with the highest regard to the safety of life and property and according to the lines, levels and directions given by the Engineer.

Best Materials, Machinery, Tools, Etc., to Be Used.

Article XVII. The Contractor shall furnish of the best description all labor and materials, plant, tools, supplies and other means of construction necessary to construct and put in complete working order all work covered by the specifications, contract drawings and provisions of this contract, including all additional specifications, drawings and details issued or required as herein provided.

Contractor Has Examined Location, Drawings, Etc.

Article XVIII. The Contractor hereby represents that prior to the execution

of this contract he has examined in detail on the ground the location mentioned herein and indicated on the contract drawings, and that he has fully examined the contract drawings and has read each and every clause and section of this contract and of the specifications and has had full opportunity to consider the same and make necessary investigations relating thereto; and he shall not make any claim for, or have any right to, damages or an extension of time for completion of the Works, or any other concession, because of any misinterpretation or misunderstanding of this contract or the specifications or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, Etc.

Article XIX. No acceptance of any part of the Works or of materials therefor shall relieve the Contractor of his obligation to furnish sound material and perform sound work, whether with respect to such part or to any part of the Works.

Inspection.

Article XX. The Commission contemplates, and the Contractor hereby approves, the most thorough and minute inspection by the Commission and its Engineer, and by their representatives or subordinates, of all work and materials and of the manufacture or preparation of such materials from the beginning of construction to the final completion of the Works. It is the intention of the Commission that its Engineer shall draw the attention of the Contractor to all defects in workmanship or materials or other errors or variations from the requirements of this contract. But no omission on the part of the Commission or its Engineer or any officer, member or subordinate of the Commission to point out such defects, errors or variations shall give the Contractor any right or claim against the City or the Interborough Company or shall in any way relieve the Contractor from his obligations according to the terms of this contract.

Contractor to Afford Facilities for Inspection.

Article XXI. The Contractor shall at all times give to the Commission and its members, to the Engineer and his assistants and subordinates, and to any person designated by the Commission or its Chairman, all facilities, whether necessary or convenient, for inspecting the materials to be furnished and the work to be done under this contract. The members of the Commission, the Engineer and all employees of the Commission bearing his authorization or the authorization of the Commission or its Chairman, shall be admitted at any time summarily and without delay to any part of the Works or to inspection of materials at any place or stage of their manufacture, preparation, shipment or delivery.

Engineer to Be Furnished Facilities.

Article XXII. The Engineer shall be furnished with every reasonable facility for ascertaining whether the work is in accordance with the requirements and intention of this contract, even to the extent of uncovering or taking down portions of finished work. Should the work thus exposed or examined prove satisfactory, the uncovering or taking down and the replacing of the covering or the making good of the parts removed shall be paid for at the contract prices for the class of work done; but should the work exposed or examined prove unsatisfactory, such uncovering, taking down, replacing and making good shall be at the expense of the Contractor.

Inspection Not to Relieve Contractor of Obligations.

Article XXIII. The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill this contract as herein prescribed, and defective work shall be made good and unsuitable materials will be rejected, notwithstanding that such work and materials have been previously accepted or estimated for payment. If the work or any part thereof shall be found defective before the final acceptance of the whole work, the Contractor shall forthwith make good such defect, in a manner satisfactory to the Engineer, and if any material brought upon the ground for use in the work, or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall at his own expense forthwith remove such material.

Engineer's Determination—To Be Final and Conclusive upon Contractor.

Article XXIV. To prevent disputes and litigations, the Engineer shall in all cases determine the classification, amount, quality, acceptability and fitness of the several kinds of work and materials which are to be paid for under this contract; shall determine all questions in relation to the Works and the construction thereof, and shall determine every question which may arise relative to the fulfillment of this contract on the part of the Contractor. His determination and estimate shall be final and conclusive upon the Contractor, and in case any question shall arise between the parties hereto, touching this contract, such determination and estimate shall be a condition precedent to the right of the Contractor to receive any money under this contract.

Engineer to Explain Specifications.

Article XXV. The Engineer shall make all necessary explanations as to the meaning and intention of the specifications, shall give all orders and directions contemplated therein or thereby and in every case in which a difficult or unforeseen condition shall arise in the performance of the work required by this contract.

Contractor to Obey Directions.

The Contractor shall promptly obey and follow every direction which shall be given by the Engineer, including any direction which the Engineer shall give by way of withdrawal, modification or reversal of any previous direction given by him.

Other Contractors.

During the progress of the work it will be necessary for other contractors and persons to do work in or about the construction or equipment of the Railroad. The Contractor shall afford to such other contractors or persons such facilities as the Engineer may require.

Contiguous Contract Sections.

Whenever any work performed or to be performed by the Contractor under this contract shall adjoin, affect or interfere with any work performed or to be performed by any other contractor or contractors of the Commission, including the work within twenty (20) feet of the division lines between the Railroad and adjoining work, the Engineer shall decide any question or dispute between the Contractor and such other contractor or contractors and shall determine which of them shall perform or complete any work and the manner, time and method in which they shall perform their respective work and the facilities which each shall afford to the other or others.

Facilities Afforded to Other Contractors.

Whenever any work performed or to be performed by the Contractor under this contract shall adjoin, affect or interfere with any work performed or to be performed by the Interborough Company, its successors or assigns, or by any contractor or contractors of the Interborough Company, its successors or assigns, in connection with the equipment of the Railroad, the Engineer shall determine the manner, time and method in which the Contractor shall perform his work and the facilities which he shall afford to the Interborough Company, its successors or assigns, or to such other contractor or contractors.

The Contractor shall afford to The New York Central and Hudson River Railroad Company or its contractors or any other person or corporation such facilities as the Engineer may require in connection with the prosecution of the work being or to be constructed at or near the northerly building line of East 42d Street.

Substitute for Chief Engineer.

Article XXVI. Any engineer substituted by the Commission in place of the Chief Engineer during the absence, illness or disability of the Chief Engineer or when the Commission shall so determine shall, during his official connection, have all the power and authority of the Chief Engineer and in all respects be recognized as such Chief Engineer.

Chapter III.

SPECIFICATIONS.

Specifications and Drawings to Be Interpreted as Requiring Railroad of Highest Class—Where Text of Contract Doubtful, Best Materials and Workmanship Required.

Section No. 1. The specifications and contract drawings hereinafter mentioned and taken in connection with the other provisions of this contract, are intended by the Commission to be full and comprehensive, and to show all the work required to be done. But in a work of this magnitude it is impossible either in advance to show all details, or precisely to forecast all exigencies. The specifications and contract drawings are to be taken, therefore, as indicating the amount of work, its nature and the method of construction so far as the same are now distinctly apprehended. The Railroad is to be constructed for actual use and operation as an intraurban railroad of the highest class adopted to the necessities of the people of New York in the best manner, according to the best rules and usages of railroad construction, and in the event of any doubt as to the meaning of any portion of the specifications or of the contract drawings or of the text of this contract, the same shall be interpreted as calling for the best construction, both as to materials and workmanship, capable of being supplied or applied. All the clauses of the specifications and all the

parts of the contract drawings are, therefore, to be understood, construed and interpreted as intending to produce the results hereinbefore stated.

Contractor to Construct in Accordance With Specifications.

Section No. 2. The Contractor shall construct and complete the Railroad strictly in accordance with the requirements of these specifications; if in these specifications or this contract or on the contract drawings any matter or thing requisite be not contemplated, mentioned, specified or indicated or otherwise provided for, nevertheless the same is deemed to be included and the Contractor shall do the same as part of the work hereunder at the unit prices for each class of work where in the opinion of the Engineer applicable or as provided in Article XII.

Contract Drawings.

Section No. 3. The contract drawings referred to in this contract and these specifications are each countersigned by the Engineer, stamped with the seal of the Commission and, except typical drawings hereinbelow designated, bear the general title:

Routes Nos. 43 and 26, Section No. 1, Contract Drawing No.

and are designated or numbered as follows:

A-1, A-2, B-320, B-321, B-322, B-326, C-1 to C-26 inclusive, C-401 and C-601, and are dated July 1, 1914, and the following typical drawings, which are all countersigned by the Engineer, stamped with the seal of the Commission and bear the general title:

Contract Drawing No.

and are designated or numbered as follows:

B-288 and B-289, dated October 22, 1913, B-298, dated February 2, 1914, C-701, dated June 11, 1913, and C-1006, dated April 2, 1914.

Typical Sections and Dimensions.

Section No. 4. The sections and dimensions shown on the contract drawings are typical sections and dimensions which should be applicable to the greater part of the work. Working drawings to amplify the contract will be furnished by the Commission to the Contractor, from which the shop drawings shall be made by him. The first of these drawings will be given to the Contractor within 30 days after contract is delivered and the remainder from time to time as may be reasonably required by the Contractor. Where, however, changes are deemed necessary they may be ordered under Article XV of the contract and the Engineer shall issue such plans and specifications as may be necessary.

Supplementary Drawings.

Section No. 5. In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal and general title as the contract-drawings, but designated as Supplementary Drawings. These supplementary drawings exhibit certain information which the Commission has received from its Engineer of the general nature of the soil underlying portions of the route, the nature and position of surface, subsurface and elevated railroads, water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins and other surface, subsurface and overhead structures.

Supplementary Drawings May Be Examined.

Section No. 6. These supplementary drawings, also detail construction drawings of the present rapid transit railroad structures, and samples of materials taken in connection with test borings may be seen at the office of the Engineer. They are exhibited to the Contractor without any guarantee on the part of the Commission as to their completeness or correctness. The Contractor may have copies (blue-prints) of these supplementary and construction drawings for such aid, if any, as may be derived from them, on the payment of the cost of blue-printing.

In Case of Difficulties Not Indicated on Supplementary Drawings.

Section No. 7. If, in the prosecution of the work, difficulties of any nature be encountered which are not indicated or suggested by the supplementary drawings, or by said construction drawings or by the samples of the test borings or if additional surface, subsurface or overhead structures or obstructions be discovered or if any surface, subsurface or overhead structures or obstructions be found of different size or in different positions or of different nature from those shown on the supplementary drawings or said construction drawings or if in any other way such supplementary or construction drawings be found erroneous, incomplete or misleading, the Contractor shall take every necessary or proper precaution to overcome the unforeseen difficulty and shall support, maintain, protect, remove, relay, adjust or readjust, as the case may be, the additional or different surface, subsurface or overhead structures according to the direction of the Engineer and as provided in this contract and these specifications.

Specifications Do Not Include All Requirements.

Section No. 8. The specifications do not include all requirements, but are requirements in addition to those elsewhere given or provided in this contract. The specifications and the other provisions of this contract and the contract drawings are intended to be explanatory of each other. Should, however, any discrepancy appear or any misunderstanding arise as to the import of anything contained in either, the explanation or decision of the Engineer shall be final and conclusive.

Subdivisions of Specifications.

Section No. 9. These specifications are grouped in subdivisions as follows:

1. Brief description of the work.
2. General clauses.
3. General manner of prosecution and maintenance of traffic.
4. Street railroad tracks, mains and other surface, subsurface and overhead structures.
5. Excavation.
6. Backfilling.
7. Piling and timbering.
8. Cement.
9. Mortar.
10. Masonry.
11. Concrete.
12. Brick masonry.
13. Stone masonry.
14. Waterproofing.
15. Steel and iron.
16. Painting.
17. Drains and pumps.
18. Sewers.
19. Requirements for pipes.
20. Ducts.
21. Conduits.
22. Surfaces restored.
23. Gratings, hand-rails, etc.
24. Tunneling.
25. Special matters.

SUBDIVISION 1.

Brief Description of the Work.

General Nature.

Section No. 10. The Railroad is to be an underground railroad or subway. The general details of construction and the location of the various tracks, junctions, grades, etc., are indicated more particularly on the contract drawings.

The Contractor will not be required to provide or lay permanent tracks, ties or ballast under this contract.

Stations to Be Constructed.

Stations are to be constructed at such places as are indicated on the drawings, but station finish work is not included in the work to be done under this contract. Station construction must, however, be kept so advanced that station finish contractors can complete their work coincidentally with the completion of the Railroad.

Incidental Work.

Section No. 11. In addition to the construction of the Railroad, it will be necessary to do various incidental work which is generally referred to in Article X hereof.

Ventilating Chambers and Gratings.

Section No. 12. In order to provide for a frequent renewal of air in the Railroad, chambers for the installation of necessary ventilating devices shall be built at the sides of the Railroad and in connection therewith. These chambers shall be generally of the form and dimensions shown on the drawings varying somewhat with the requirements of local conditions. They will be so arranged that the air will discharge through gratings placed generally in the sidewalks in the roofs of the chambers. If, owing to local conditions, it becomes necessary to lead the air to gratings or other outlets away from the chambers, suitable air-ways, ducts or flues shall be constructed.

The chambers will be built at the places and as indicated on the drawings.

Payment for Chamber Doors.

The chambers will be provided with suitable steel doors and with steel ladders reaching to the street for use as exits in case of emergency. Such doors and ladders will be paid for as riveted steel, Schedule Item 19.

Also in connection with the ventilation of the Railroad partition walls shall be constructed between the tracks as shown on the drawings.

Openings, or refuge niches, shall be provided in all partition walls at suitable intervals.

Other openings with gratings will be built at or over the stations, for the purpose of admitting air to the Railroad.

SUBDIVISION 2.

General Clauses.

Prevention of Water Percolation.

Section No. 13. It is the very essence of these specifications to secure a railroad structure underground which shall be free from the percolation of ground or outside water. The mixing and placing of the concrete and the placing and protection of the waterproofing shall be with this end in view.

Best Quality of Work.

Section No. 14. All materials and workmanship must be of the best class in every respect, and the Engineer is to be the sole judge of their quality and efficiency.

Rapidity and Safety.

Section No. 15. All the work shall be prosecuted in the manner, according to local conditions, best calculated to promote rapidity in construction, to secure safety to life and property and to reduce to the minimum any interference with abutting property and the public travel. Decking of the streets, paving, or other surface work affecting, or affected by, street traffic shall be prosecuted during such hours as will reduce such interference to a minimum. Night work shall be conducted, in accordance with the directions of the Engineer, so that annoyance to occupants of abutting property shall be reduced to a minimum, and the Engineer may, if in his judgment conditions so require, direct that night work be omitted.

Railroad a Part of Extensive System.

Section No. 16. The Railroad forms part of an extensive rapid transit railroad system, which the interests of the City imperatively require shall be completed and put into operation without delay. If the Contractor shall not prosecute his work in such manner as to make it reasonably probable in the judgment of the Engineer that the work will be completed within the time limited, the Contractor, if directed by the Commission, shall increase the number of shifts and the number of men in each shift to such extent as may be necessary to insure the completion of the work within the time required by this contract, or within the shortest possible time thereafter.

Emergencies.

Section No. 17. In case of emergencies involving danger to life or property, continuous work with an increased force may be ordered by the Engineer for such time as may be necessary.

Permits.

Section No. 18. No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. No permits for excavation will be issued until the Contractor has given satisfactory assurance to the Engineer that the structural iron and steel and other material needed for construction will be available. The Contractor must conduct his work so as to avoid advancing the excavation at any place ahead of the delivery on the work or on property owned or leased by the City of the structural iron and steel required for such place, unless otherwise permitted by the Engineer. If the Contractor elects and is permitted to advance the excavation ahead of such iron and steel delivery it will become necessary for him to support and maintain the trenches until the iron and steel can be obtained; this he shall do entirely at his own risk and expense. The permits are to be in such form and shall cover such portions of the work as the Commission shall prescribe.

When to Be Filed With Borough President.

Section No. 19. Before any opening is made in the surface of a street, a copy of the permit issued by the Commission shall have been filed with the Borough President not less than five (5) days, unless the Engineer shall expressly direct work to begin within a less period.

Notice Regarding Commencement of Work.

Section No. 20. At least one (1) week before commencing work on any part of the route, whether on the Railroad or on the sewers lying off the line of the Railroad, the Contractor shall give notice in writing to the Engineer of his intention to commence such operations; and at least one (1) week before commencing or resuming manufacture of any article called for by these specifications, the Contractor shall give notice in writing to the Engineer of his intention to commence or resume such manufacture with the name and address of the maker and the amount and description of the material to be manufactured.

Shafts and Dumping Platforms—Plans Required.

Section No. 21. The work of construction under this contract shall be prosecuted mainly from within the limits of property recently acquired by the City bounded by the easterly line of Park Avenue, the northerly line of East 41st Street and the southerly line of East 42nd Street, formerly the Grand Union Hotel site, the buildings on which property are to be torn down and removed by other contractors as herein elsewhere provided. The work at the Steinway Tunnel level may be prosecuted through the shaft east of First Avenue, as provided in Section No. 449, and also through the ventilation shaft on Park Avenue near the southeast corner of Park Avenue and East 42nd Street by means of an overhead bridge across the easterly sidewalk of Park Avenue, connecting the latter shaft with the property above described. All material shall be taken into or removed from the property above described by means of a driveway across the northerly sidewalk of East 41st Street, unless otherwise permitted by the Engineer.

The Contractor will be permitted to locate an additional shaft in Park Avenue adjacent to the easterly side of the parkway at a point between the northerly building line of East 40th Street and a line midway between East 38th and East 39th streets. In case such working shaft and the cross connections between such shaft and the Railroad or any part of such shaft or connections within the lines ordered by the Engineer are located outside or partly outside the payment lines of excavation for the Railroad structure, the Contractor will be paid for the excavation of such part of such working shaft and cross connections within the lines ordered by the Engineer as may lie outside said payment lines of excavation for the Railroad structure at the price stipulated for excavation in Schedule Item 5-A. Upon the completion of the work of construction the Contractor shall backfill or otherwise close up, as directed by the Engineer, such shaft and cross-connections and in accordance with the requirements of Subdivision 22 shall restore the surface. Payment therefor will be made at the prices stipulated in the Schedule Items applicable thereto, it being understood that the cost of backfilling shall be deemed to be included in the price stipulated for excavation. Schedule Item 5-A. Such working shaft and cross-connections shall be excavated to the lines ordered by the Engineer. The measurement for payment for such street surface restored will be to the ordered net lines of excavation. All other work, labor and material in connection with the shaft and the shaft working plant shall be provided by the Contractor at his own cost.

Detailed drawings showing the proposed location and proposed methods of construction of shafts, dumping platforms and all other appurtenances in connection with the shaft working plants shall be submitted to the Engineer and must receive his approval before permits will be granted for such plants and appurtenances to be constructed and put into operation. With respect to the use of the Steinway Tunnel shaft east of First Avenue in connection with the prosecution of the work, see also Section No. 449, page 158.

City Ordinances and Regulations to Be Observed.

Section No. 22. In all operations connected with the Works, all ordinances of the City, and of the Board of Health, and all laws of this State which are now applicable to and control or limit in any way the actions of those engaged in the work or affecting the materials belonging to them, shall be respected and strictly complied with, and the Contractor shall further strictly comply with all applicable Federal, State and Municipal regulations regarding the transportation of materials in and around the City and Harbor of New York.

Requirements of Borough President, etc., to Be Observed.

Section No. 23. Whenever the construction of the Works under the provisions of this contract shall interfere with, disturb or endanger any sewer, water pipe, gas pipe, or other duly authorized subsurface structure, the work of construction at such points shall be conducted in accordance with the reasonable requirements of the Borough President or of the Commissioner of Water Supply, Gas and Electricity or other

officer or local authority having the care of and the jurisdiction or control over such subsurface structures so interfered with, disturbed or endangered.

Building and Water Permits; Shut-Offs for Water Pipes, etc.

Section No. 24. The Contractor shall at his own cost procure all permits necessary or requisite for the underpinning of buildings and the reconstruction thereof; he shall, at his own cost, provide for the water supply necessary for his work and he shall bear the cost of any inspection charge in connection therewith. He shall bear the expense of all work, labor and material in connection with bagging, cutting and capping, installing circulation connections and temporary drips for gas pipes where in the opinion of the Engineer it is necessary to cut off the supply of same, and also in connection with replacing and restoring such pipes to their original condition, except where it is necessary to resort to by-passing as provided in Section No. 52. The Contractor shall also bear the cost of the shutting off and restoration of the flow in water mains where such work applies to the maintenance and support thereof as provided in Section No. 59.

Storage on Cross Streets.

Section No. 25. No material of any nature shall be stored on cross streets adjacent to the work or along the streets occupied by the Railroad unless permitted by the Engineer. Generally all such material must be stored on the Grand Union Hotel site.

Material Stored.

Section No. 26. Excavated sand, gravel or stone that in the judgment of the Engineer is suitable for use in mortar, concrete, or masonry, also structural and other material to be used in the work, may be stored in such locations other than the surface of streets for such periods as are approved by the Engineer.

Approval of Engineer Revocable.

Section No. 27. In any case material may be so stored only with the approval of the Engineer, revocable at any time; and if so ordered, such material shall be removed immediately by the Contractor at his own expense on receipt of the order or within a period of time to be therein stated.

Access to Fire Hydrants.

Section No. 28. Wherever the work is being carried on, free access must be given to every fire hydrant and fire alarm box, and when required, hydrants shall be extended by suitable tube or piping to an accessible point as approved by the Engineer, and to the satisfaction of the Chief of the Fire Department. Materials must not be piled at any time or place within ten (10) feet of any fire hydrant or fire alarm box; and where materials are unavoidably piled or placed in the vicinity of a fire hydrant or fire alarm box, and to such height as to obscure a sight of the same, the position of such hydrant or fire alarm box shall be indicated by suitable signals, both day and night.

Fire Alarm Telegraph System to Be Safeguarded.

The Contractor shall at his own expense guard, maintain and protect the existing wires, cables, ducts, manholes, posts and poles of the Fire Department. He shall not cause the interruption of the existing Fire Department Fire Alarm Telegraph service. No Fire Department wire, cable, duct, manhole, post or pole shall be disturbed except in the presence of a representative of the Bureau of Fire Alarm Telegraph. In case any such wire, cable, duct, manhole, post or pole shall be disturbed, it shall be restored to its original condition by the Contractor at his own expense.

Work to Be Kept Clear.

Section No. 29. The Contractor shall at his own expense keep the work, streets and all public places occupied by him clear of all refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition; but this is in no way to be construed as placing upon the Contractor the usual duties of the Street Cleaning Department. The Contractor shall at his own expense keep the sidewalks surrounding the property formerly the Grand Union Hotel site clear of all snow and ice and refuse, and shall keep and maintain said sidewalks in good condition and repair and in safe condition for the use of persons passing along said sidewalks.

Assistance to Be Rendered to Owners of Buildings.

Section No. 30. Where access to any adjacent property is temporarily cut off, owing to the occupancy of the street by the Contractor, he must, at his own cost, render every assistance to the owner or occupant in handling such materials of any description, including all material to be removed by the Department of Street Cleaning, that has to be taken to or removed from such property; such material shall be taken to or from the nearest accessible point that in the opinion of the Engineer is convenient for handling.

Waste Material.

Section No. 31. Waste material of any character will under no conditions be permitted to remain on the streets, but must immediately on its becoming unfit for use in the work be carted away and disposed of by the Contractor at his own expense as hereinbefore provided; nor shall such materials be allowed to accumulate in the trenches.

Conveniences for Men.

Section No. 32. Necessary conveniences, properly secluded from public observation, shall be constructed and maintained by the Contractor at his own expense wherever needed for the use of the Contractor's employees, to the satisfaction of the Engineer and the sanitary authorities.

Fences.

Section No. 33. Wherever necessary the Contractor shall erect and maintain at his own expense fences for the protection of adjoining property and of the adjoining public places. He shall maintain the fence which is to be erected by the wrecking contractor around the property, formerly the Grand Union Hotel site; and shall also maintain the covering of the areas inside and outside the building lines of said property.

Advertisements Forbidden.

Section No. 34. The using of fences and buildings during construction for advertising purposes, other than the name and address of the Contractor, is forbidden; all temporary buildings and fences erected by the Contractor shall be neat in appearance and shall be painted as directed by the Engineer.

Barricades.

Section No. 35. Barricades and bridges shall be erected by the Contractor at his own cost, for the protection of the work or use of the public; they shall be substantial in character and neat in appearance.

Construction Drawings.

Section No. 36. The Engineer will prepare and furnish to the Contractor, from time to time as required, drawings amplifying such details of the contract drawings as may be necessary, and drawings necessary to show the adjustment and reconstruction of all surface and subsurface structures wherever the reconstruction of the same is necessitated by the construction of the Railroad. These drawings must be strictly followed, unless local conditions should develop during construction, suggesting changes, when, with the approval of the Engineer, such changes may be permitted.

Working and Shop Drawings.

Section No. 37. The Contractor shall make all working or shop drawings which may be required in addition to the contract drawings, or in addition to such other drawings as the Commission may issue in amplification of such contract drawings, as explained above. All working or shop drawings shall be submitted in duplicate to the Engineer for his approval, which approval shall be indicated by his counter-signing one set of such working or shop drawings and returning the same to the Contractor. Should the working or shop drawings be not approved by the Engineer, then the Engineer shall return one set of such working or shop drawings, with the necessary corrections and changes indicated thereon; and the Contractor must make such corrections and changes, and again submit drawings in duplicate for the approval of the Engineer; and no work called for by said working or shop drawings shall be done until the approval of the Engineer be obtained, which must be given or refused within twenty (20) working days after delivery to him at his office of such drawings in duplicate. Immediately upon final approval of such working or shop drawings by the Engineer, the Contractor shall furnish the Commission four additional copies of such approved drawings.

Lines and Grades.

Section No. 38. During the progress of the work the Commission will give, through the Engineer, to the Contractor, suitable points, marks or benches, indicating the line and grade of the Railroad and of the sewers; such points or bench marks to be established at such intervals as the Engineer deems necessary for the Contractor to be able to perform his work. The principal lines and grades are to be given by the Engineer, who may change them from time to time as may be authorized and directed by the Commission. The stakes and marks given by the Engineer shall be carefully preserved by the Contractor, who shall give to the Engineer all necessary assistance and facilities for establishing benches and plugs and for making measurements.

Notice, How Given.

Section No. 39. Orders and directions may be given orally by the Engineer to, and shall be received and promptly obeyed by, the Contractor or his representative or any superintendent, overseer or foreman of the Contractor who may have charge of the particular work in relation to which the orders or directions are given, and a confirmation in writing of such orders or directions will be given to the Contractor by the Engineer if so requested. If confirmation in writing is not requested by the Contractor, the oral orders and directions shall govern. The Contractor or his duly authorized representative shall be present at all times on the work to receive orders and directions from the Engineer.

Imperfect Work.

Section No. 40. Any imperfect construction which may be discovered before the final acceptance of the work shall be corrected immediately on the requirement of the Engineer and at the Contractor's expense, notwithstanding that it may have been overlooked by the proper inspector.

Damaged Work to Be Replaced.

Section No. 41. All work of whatever kind which during its progress and before its final acceptance shall become damaged from any cause shall be broken up or removed and be replaced by good and sound work at the Contractor's expense.

Condemned Materials to Be Removed.

Section No. 42. If any material brought on the ground for use in the work or selected for the same shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such material at his own expense.

Competent Men.

Section No. 43. The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that in his opinion any man on the work is incompetent, unfaithful or disorderly, such man shall be discharged from the work and shall not again be employed on it.

SUBDIVISION 3.

General Manner of Prosecution and Maintenance of Traffic.

Access to Buildings, Etc.

Section No. 44. No building shall, without the consent of the occupant, and without notice to the Engineer, be deprived of means of access thereto and, where streets are open suitable bridges shall be built and maintained, at the Contractor's expense, to permit owners and occupants to reach their premises. Where necessary, proper and easy means for passengers to reach or leave street cars shall be maintained.

Conduct of Work.

Section No. 46. Generally the Contractor will be permitted to conduct his work in the most expeditious manner possible, having due regard for the safety of persons and property and facilities for traffic and under such instructions as the Engineer may give from time to time.

Facilities for Travel.

Section No. 47. All necessary facilities are to be furnished by the Contractor for the benefit of street travel, both on longitudinal and cross streets.

Decking of Streets and Sidewalks.

Section No. 48. In order to minimize interference with traffic and inconvenience to abutting property owners, during the construction of the Railroad, on all parts of the work the streets and sidewalks shall, except as hereinafter specifically provided, be substantially decked or covered over, and every precaution must be taken to keep traffic free from interruption. (See Section No. 449.)

At Street Intersections—Bridges for Foot Traffic.

Section No. 49. The street intersections, except where working shafts are located, shall be kept at all times open for traffic for their full width. Where the decking is temporarily removed from any part of the street the opening shall be protected by suitable fencing and bridging. In all cases the Contractor shall at all times at his own expense keep all the street crossings on the lines of the sidewalks in a clean and neat condition, bridging gutters and low places where water might collect.

Close Observance of Above Requirements.

Section No. 50. The Commission will insist upon the close observance of the above requirements, and no departure therefrom will be allowed, excepting upon the written permission of the Commission.

Openings for Ventilation.

Section No. 51. Wherever the excavations are decked, or where gases are liable to accumulate, suitable openings shall be provided for proper ventilation.

By-passing Gas Mains.

Section No. 52. Wherever the excavations are decked, all gas pipes the services of which cannot temporarily be dispensed with shall be by-passed, if directed by the Engineer; temporary pipes to take their place being laid upon, above or below the street or sidewalk surfaces. These temporary by-passing pipes if laid upon or below the street surface, will be paid for at the prices stipulated in Schedule Item 99-A. If laid above the street or sidewalk surface, they will be paid for at the prices stipulated in Schedule Item 99-B. These prices shall include the cost of all excavation, backfilling, temporary paving (including maintenance of same), and the restoration of the permanent paving both upon the completion of the by-passing installation and upon the restoration of the original system, and all bagging, cutting and capping and installing circulation connections, and all other work, labor and material of whatever character necessary to provide a temporary and independent system of gas supply to take the place of the system originally in the street; to connect such temporary system with the mains in the intersecting street where necessary; to transfer all house and lamp services to such temporary system where necessary; to remove and dispose of the material of such temporary system and to restore the original system, and no allowance will be made therefor under any other Schedule Item or otherwise. No allowance will be made for the maintenance of such temporary system. All maintenance will be considered as of the original system, and will be as provided for in Section No. 59. The material of the temporary system shall upon removal become the property of the Contractor. All pipe included in Schedule Item 99-A shall be wrought iron of a quality and manufacture to be approved by the Engineer. If laid on a trestle (Schedule Item 99-B) the pipes shall be flagged, or of other approved connection, and sizes twenty (20) inches in diameter or less shall be rolled wrought-iron pipe.

Temporary Pipes, Etc.

Section No. 53. Temporary pipes, if laid upon or above the street or sidewalk surfaces, shall be neatly and substantially placed in a manner to cause the minimum of inconvenience to the abutting property owners and to the public. Where by-passing pipes are to cross a street overhead, the trestles must be of such a height as to give a minimum clear head room underneath the pipe and its supports of fourteen (14) feet.

The trestle shall be measured along its center line from out to out of end bents or, if cable suspension is employed, from out to out of anchorages, and shall be paid for per lineal foot of trestle so measured whether one or more pipes are supported thereon. The trestle shall be of a design approved by the Engineer and shall be painted an approved color.

In General Work to Proceed Under Cover.

Section No. 54. In general, work in open trench will as provided herein be carried on under roadway decking. In exceptional cases, however, where rock is within a few feet of the street or sidewalk surface, it may be impracticable to operate drills under such decking until a sufficient depth of excavation has been obtained. In such cases such latitude will be allowed the Contractor as may prove absolutely necessary for the execution of this contract, and as the Engineer with the approval of the Commission may deem advisable.

SUBDIVISION 4.

Street Railroad Tracks, Mains and Other Surface, Subsurface and Overhead Structures.

Notice to Be Given to Interested Parties.

Section No. 55. Notice is to be given by the Contractor to all individuals, companies and the proper City officials, owning or having charge of surface, subsurface or overhead structures along any part of the work, of his intention to commence operations along such part of the route, at least one (1) week in advance, and the Contractor shall file with the Engineer at the same time a copy of said notice; and he shall co-operate with the proper parties, officers or officials in charge of such structures and shall furnish them with all reasonable facilities to inspect the methods of caring for their property.

Plans for Rearrangements, Procedure.

Section No. 56. In the rearrangement of surface, subsurface or overhead structures requiring removal and relaying or reconstruction due to interference with the

railroad structure a tentative plan will be made by the Engineer, which will be submitted to the parties interested; if any reasonable changes are then requested by any of the said parties within ten days after the submission of the tentative plans, such changes will then be made, if in the judgment of the Engineer they will best conserve the interest of all parties concerned; a further plan will then be made which, on the approval of the Engineer will be final.

Reconstruction or Relaying, etc.

Section No. 57. Whenever it becomes necessary to cut, move, change or reconstruct any surface, subsurface or overhead structures, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such structures.

Reasonable Dispatch.

Section No. 58. All work of reconstruction or alteration shall be done with reasonable dispatch, and facilities are to be provided so that said work will interfere as little as possible with the practical working and use of such structures.

Maintenance, Support, Etc.—Protection from Injury.

Section No. 59. The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for the usual service and to the reasonable satisfaction of the owners, all surface, subsurface and overhead structures and all their appurtenances encountered or affected during the prosecution of his work; if the maintenance of such usual service makes it necessary, the Contractor shall temporarily remove and relay or reconstruct any such surface, subsurface and overhead structure and shall restore the same prior to the completion of this contract. Also, in order that access may be had in emergencies to gates or valves on water, gas or steam mains and to electric manholes, where such gates or valves and manholes are decked over, trap doors of a suitable size shall be provided in the decking. All surface, subsurface and overhead structures and their appurtenances, and all surfaces of whatever character along the line of the work shall be protected from injury, and the Contractor shall fully restore such surface, subsurface or overhead structures and their appurtenances or surfaces to as good a condition as existed before construction was begun. All the above, including also all changes of surface, subsurface or overhead structures and their appurtenances made by the Contractor for his own convenience in executing his work shall be done at the Contractor's own expense and included in the prices stipulated in the Schedule for excavation except as otherwise herein specifically provided.

Necessary Permanent Changes of Pipes.

Section No. 60. (1) Changes of water, gas or other scheduled pipes, made necessary because of physical interference of such scheduled pipes with the Railroad structure, Railroad ducts or Railroad duct manholes, and requiring the removal, relaying or reconstruction of such scheduled pipes in other than the original position, will be paid for at the prices stipulated in Schedule Item 79, 82, 84, 86, 88, 90, 91, 92, 94, 95, 96, 99-C, 102, 103, 104, 121 and 125. Supplementary Drawing No. E-8 exhibits certain proposed high pressure water mains and appurtenances to be laid, which the Department of Water Supply, Gas and Electricity may place under contract within the term of this contract. The maintenance of such high pressure mains if and when laid is to be as provided for in Section No. 59; any changes made necessary because of physical interference with Railroad ducts or Railroad duct manholes, and requiring the removal, relaying or reconstruction of such high pressure mains and their appurtenances in other than their original position will be paid for as provided in this section. These prices are per lineal foot of such scheduled pipes laid and shall include the removal, relaying or reconstruction of all their service connections, all other appurtenances of whatever character and all other work, labor and material incidental thereto, made necessary because of the physical interference of such scheduled pipes with the Railroad structure, Railroad ducts or Railroad duct manholes, and no allowance will be made therefor under any other Schedule Item or otherwise; except that:

Payment for New Pipes.

(2) If new pipes have to be provided to take the place of such scheduled pipes and are ordered by the Engineer, such new pipes will be paid for in addition to the prices paid for laying, etc., at the prices stipulated in Schedule Items 100, 100-A, 101, 101-A, 107, 108, 123 and 126-C, which prices shall include the cost of the delivery of the new pipes actually used as measured in place in the work, and the removal and disposal of the old pipes. This does not relieve the Contractor, however, of his obligation to preserve all pipe that is in good condition and can be reclaimed and used, in order to avoid the necessity whenever possible of providing new pipe.

Payment for Excavation Outside Net Lines.

(3) If such scheduled pipes in their new locations are outside of the ordered net lines of excavation for the Railroad structure, Railroad ducts or Railroad duct manholes, necessitating additional excavation and restoration of street surface, such excavation will be paid for at the prices stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section No. 92) and such restoration of street surface will be paid for at the prices stipulated in Schedule Item 30, but only for such width as is prescribed in Section No. 61 for the excavations to be paid for. Any additional excavation and restoration of street surface, outside the ordered net lines of excavation for the Railroad structure, Railroad ducts or Railroad duct manholes, necessitated for service connections and for other appurtenances for scheduled pipes located either inside or outside the ordered net lines of excavation for the Railroad structure, Railroad ducts or Railroad duct manholes, will not be measured or paid for separately, but compensation therefor will be deemed to be included in the prices for excavation and street surface restored, specified in this subdivision (3) and in the prices for scheduled pipes specified in subdivision (1) of this Section No. 60.

Changes of Service Connections.

(4) Changes of the service connections of such scheduled pipes made necessary because of the physical interference of such service connections with the Railroad structure, Railroad ducts or Railroad duct manholes, whether the main pipe line is or is not changed, will be paid for at the prices stipulated in Schedule Items 88-A and 99-D which prices are for each such service changed and are to include the cost of all connections, all wrought iron pipe sleeves of whatever description, insulation where necessary, all appurtenances of whatever character, and all other work, labor and material incidental to the removing, relaying or reconstructing of such service connections, and no allowance will be made therefor under any other Schedule Item or otherwise.

Measurements in Pipe Excavation.

Section No. 61. (1) In the estimate and payment for earth excavation for pipe laying allowance will be made for a width of trench two (2) feet wider than the interior diameter of the pipe and a depth six (6) inches deeper than the invert of the pipe, measured from the surface of the street on the line of the trench. Where, in the opinion of the Engineer, the trench for laying pipes 30 inches or more in diameter requires to be close sheeted, allowance will be made in the estimate and payment for earth excavation for a width of trench three (3) feet wider than the interior diameter of the pipe, when the trench is so sheeted.

Excavation for Valve Chambers.

(2) For the building of valve chambers and other structures and for the setting of valves, valve boxes and hydrants, the total excavation to be allowed will be that within vertical planes one foot outside of the outside lines of such structures, valves, valve boxes or hydrants, the depth being taken as the distance from the street surface to the lowest part of the structure or appurtenance.

Intersection of Two Trenches.

(3) At the intersection of two trenches or at the intersection of a pipe or other trench with an excavation made by the Contractor under orders from the Engineer, for any purpose whatsoever, the cubical contents of the intersection will be allowed only once. Under no circumstances will a double allowance be made for any excavation.

Measurement for Rock Excavation for Pipe Laying.

(4) In the estimate and payment for rock excavation for pipe laying, allowance will be made for a width of trench two (2) feet wider than the interior diameter of the pipe, and for a depth of trench eight (8) inches deeper than the invert of twenty (20) inch or smaller pipe and twelve (12) inches deeper than the invert of pipe of larger diameter, measured from the surface of the rock on the line of the trench. No additional allowance will be made for the removal of rock under the bells to give the required clearance.

Rock Excavation for Valve Chambers.

(5) For the building of valve chambers and other structures and for the setting of valves, valve boxes and hydrants, the measurement lines for rock excavation will be the same as specified for earth excavation, except that the depth will be taken as the distance from the surface of the rock to the lowest part of the structure or appurtenance.

Necessary Permanent Changes of Electric Conduits and Ducts.

Section No. 62. (1) Changes of electric conduits or ducts found in the street (other than street railway ducts, payment for which is provided in Schedule Item 75, except as provided in Section No. 449), made necessary because of physical interference of such conduits or ducts with the Railroad structure, Railroad ducts or Railroad duct manholes, and requiring the removal, relaying or reconstruction of such conduits or ducts in other than the original position will be paid for at the prices stipulated in Schedule Items 127 and 127-A. The price per duct foot stipulated in Schedule Item 127 shall include the cost of conduits or ducts in place (except wrought-iron pipe ducts), of furnishing any new conduits or ducts which may be necessary, of all manholes, vaults, service boxes and their appurtenances, of drawing cables and providing new cables where necessary, of relaying and reconstructing all services and all other work, labor and material incidental to and necessary for the completed conduit or duct lines, made necessary because of the physical interference of such conduits or ducts with the Railroad structure, Railroad ducts or Railroad duct manholes, and no allowance will be made therefor under any other Schedule Item or otherwise; excepting that:

Payment for Excavation Outside net Lines.

(2) If such conduits or ducts in their new locations are outside of the ordered net lines of excavation for the Railroad structure, Railroad ducts or Railroad duct manholes, necessitating additional excavation and restoration of street surface, such excavation will be paid for at the prices stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section No. 92) and such restoration of street surface will be paid for at the prices stipulated in Schedule Item 30, but only for such width as is prescribed in subdivision (5) of this Section No. 62 for the excavation to be paid for. Any additional excavation and restoration of street surface outside the ordered net lines of excavation for the Railroad structure, Railroad ducts or Railroad duct manholes necessitated for service connections and for other appurtenances of conduits or ducts located either inside or outside the ordered net lines of excavation for the Railroad structure, Railroad ducts or Railroad duct manholes will not be measured and paid for separately, but compensation therefor will be deemed to be included in the prices for excavation and street surface restored specified in this subdivision (2) and in the prices for conduits or ducts specified in subdivision (1) of this Section No. 62.

Changes of Service Connections.

(3) Changes of the service connections of such conduits or ducts made necessary because of the physical interference of such service connections with the Railroad structure, Railroad ducts or Railroad duct manholes, whether the main conduit or duct line is or is not changed, will be paid for at the price stipulated in Schedule Item 127-C, which price is for each service changed and is to include the cost of all connections, all wrought iron pipe sleeves of whatever description, all appurtenances of whatever character and of all other work, labor and material incidental to the removing, relaying or reconstructing of such service connections and no other allowance will be made therefor under any other Schedule Item or otherwise.

Payment for Wrought Iron Pipe Ducts.

(4) Wrought iron pipe ducts (including Edison tube mains) will be paid for at the prices stipulated in Schedule Item 127-A, which prices are to include all the work, labor and material specified under Schedule Item 127.

Measurements in Conduit and Duct Excavation.

(5) In the estimate and payment for excavation for conduit and duct laying and for the building of manholes, vaults, service boxes and their appurtenances, allowance will be made in earth and in rock for a width of trench eight (8) inches wider than the duct bank or other structure, the depth, measured on the line of the trench, being taken in earth as the distance from the street surface to the lowest part of the structure; in rock as the distance from the surface of the rock to the lowest part of the structure.

Maintenance of Railroads—Surface Railroads.

Section No. 63. The Contractor shall maintain and support, in a manner that will cause the minimum interference with traffic, all surface, subsurface and elevated railroads along the line of or crossing the line of the work.

The Contractor shall maintain and support, both temporarily and permanently, in a safe condition all street surface railroads, including ducts, cables and all other appurtenances of such railroads; he shall rebuild either in their original or in new locations all parts of such surface railroads, including ducts, cables and all other appurtenances of such railroads, whose reconstruction or rebuilding may be necessitated by the construction of the work. Payment therefor (including the cost of such work in the cases of on and off line sewer trenches) will be at the prices stipulated in Schedule Item 75, which prices will include the cost of all work, labor and material incidental thereto, and no other allowance will be made therefor under any other Schedule Item or otherwise, except as provided in Section No. 449. If permanent masonry supports are ordered and added, and if additional vaults in excess of the number existing are required and constructed to give equivalent facilities, they will be paid for at the prices stipulated in the Schedule for the several classes of work or material applicable thereto.

The Contractor will be required to support street surface railroads upon compacted backfill in lieu of masonry piers unless the Engineer shall order such masonry piers. The cost of such compacted backfill will be deemed to be included in the prices stipulated for excavation.

Elevated Railroads.

The Contractor shall maintain and support both temporarily and permanently in a safe condition all elevated railroads and their appurtenances, including the reconstruction and building where necessary of all column foundations and parts of column foundations lying within and without the net lines of the Railroad structure. Payment therefor (including the cost of such work in the cases of on and off sewer trenches) will be made at the prices stipulated in Schedule Item 76, which prices shall include the cost of all incidental work, labor and material, and no allowance will be made therefor under any other Schedule Item or otherwise. The prices stipulated in Schedule Item 76 are per elevated railroad column supported. No separate allowance or payment will be made, however, for the column supporting the intermediate landing of the stairway of the Grand Central station of the elevated railroad on East 42nd Street, but payment for maintaining and supporting said stairway and the column supporting the intermediate landing of said stairway shall be deemed to be included in the prices stipulated in said Schedule Item 76 for supporting the columns of the elevated railroad structure proper.

Manhattan-Bronx R. T. R. R.

The Contractor shall maintain, protect and secure, and underpin both temporarily and permanently, in a safe condition the Manhattan-Bronx Rapid Transit Railroad operated by the Interborough Company, with its appurtenances. All work which may affect such rapid transit railroad shall be performed in accordance with the reasonable requirements of the Interborough Company and the Contractor shall not do anything which shall interfere with or interrupt the safe and continuous operation of trains therein according to the schedule or requirements of the Interborough Company; except only that the Engineer may, in his discretion, whenever in his judgment such a course is necessary for the purpose of constructing the Works, permit temporary interruption of train operation, but only at such time of the day or night and for such period as he may prescribe, provided that any such permit to be effective must be in writing with the approval of the Interborough Company endorsed thereon. If any question, dispute or conflict shall arise between the Contractor and the Interborough Company, the decision of the Engineer thereon shall be final and conclusive upon the Contractor. All methods of doing the work provided for in this paragraph or in Section No. 449 shall be subject to the approval of the Engineer, which approval must be obtained by the Contractor before the work is begun. Such methods may and, upon the requirement of the Engineer, shall be changed from time to time if in the judgment of the Engineer conditions so require.

Contractor Responsible.

The Contractor shall be responsible for the support, maintenance, safety and protection of such rapid transit railroad, its equipment and rolling stock, and for the safety and protection of all passengers and other persons therein and shall be responsible and liable for all injuries to person or property therein occurring on account of the performance of the work under this contract, whether due to the negligence, fault or default of the Contractor or not; and the Contractor shall indemnify and save harmless the City from liability upon any and all claims for damages on account of such injuries to person or property or on account of any work done by the Contractor on or affecting such rapid transit railroad and from all costs and expenses in suits which may be brought against the City for such injuries or work. The Contractor shall also indemnify and save harmless the Interborough Company from all loss and expense on account of injuries

or damages to person or property and on account of the interruption of train operation, occurring on account of the performance of the work under this contract, and shall indemnify and save harmless the Interborough Company from liability upon any and all such claims for damages on account of such injuries and from all costs and expenses in suits which may be brought against the Interborough Company for such injuries. And as more particularly provided in Chapter VI, the liability of the Contractor hereunder is absolute and is not dependent upon any question of negligence on his part or on the part of his agents, servants or employees, and neither the approval by the Engineer of the methods of doing the work nor the failure of the Engineer to call attention to improper or inadequate methods or to require a change in methods nor the neglect of the Engineer to direct the Contractor to take any particular precautions or to refrain from doing any particular thing shall excuse the Contractor in case of any such injury to person or property.

Permit from I. R. T. Co.

The Contractor, before commencing any work which may affect such rapid transit railroad or removing any part thereof, must obtain a permit from the Interborough Company, and the Contractor will be required to furnish security to the Interborough Company, as provided in Articles XXXIV of Chapter IV hereof.

Payment.

Payment for the support, maintenance, safety, protection and the temporary and permanent underpinning in a safe condition of said Manhattan-Bronx Rapid Transit Railroad and for the safety and protection of all passengers and other persons therein, will be made at the price stipulated in Schedule Item 76-J. On contract drawings Nos. C-1, C-5, C-6 and C-8, in the case of the northbound local track north of Sta. 208+47, certain new construction is shown which lies wholly or partly within the space now occupied by said Manhattan-Bronx Rapid Transit Railroad. In addition to such new construction the Contractor will be required to construct, in accordance with drawings to be submitted by him and to be approved by the Engineer, a suitable track floor and supports to carry the existing north bound local track during and after the completion of the work called for under this contract. Such new construction and such track floor in connection therewith will not be considered as underpinning but will be deemed to be a part of the construction of the Railroad and payment therefor will be made at the prices stipulated in the Schedule for the several classes of work or material applicable thereto.

Facilities to Be Given Owners to Make Extensions.

Section No. 64. In the event of the owners or the City desiring to make any addition, alteration or extension to their structures, or do any work to or in connection with surface, subsurface or overhead structures owned by them, or it, or to lay any new structure in or across a street occupied by the Works at the time the work under this contract is in progress, the Contractor, by written permission, shall give said owners or the City all reasonable opportunity to perform such work; provided such work or alteration for the benefit solely of the owners of subsurface structures does not cause the Contractor any serious loss or delay, as shall be determined by the Commission. The written permission from the Contractor, with three prints of plans or sketches, or a description indicating the proposed work in detail, shall be submitted to and approved by the Engineer before any work shall be proceeded with under such written permission, provided, however, that nothing in this section shall be deemed to apply to work done by the Interborough Company in the maintenance or operation of the Manhattan-Bronx Rapid Transit Railroad, it being understood and agreed that the Interborough Company shall have the right at all times to do all things required in the maintenance or operation of said railroad.

SUBDIVISION 5.

Excavation*

Width of Excavation.

Section No. 65. Special care must be taken to avoid damage wherever excavation under cover is being done or where open excavation is permitted. The width of such excavation shall not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work. All excavations shall be of such width, in addition to that of the Railroad, as shall be necessary, in the opinion of the Engineer, for the proper and expeditious progress of the work, and to permit the laying and readjusting of all sewers, mains, subways and other subsurface structures encountered along the route and contiguous to the Railroad.

Depth of Trenches.

Section No. 66. Trenches shall be excavated to such depth, both in soft ground and in rock, as may be necessary to permit the laying of such concrete bed, special foundation or drain pipes as may be deemed necessary by the Engineer.

Sides to Be Secured.

Section No. 67. The sides of the excavations shall be secured against slips by suitable sheet piling or sheeting, held in place by braces, shores or waling timbers, special precautions being taken where there is additional pressure, due to the presence of buildings or other structures. Where a movement of the ground might cause the settlement of an adjacent building, the sheeting must be started, if near the building, before the elevation of the bottom of the foundation of the building is reached; if away from the building, at such depth of the excavation as the Engineer may permit; and the excavation must not be made in advance of or below the bottom of the sheeting.

Filling Back of Sheetting.

Section No. 68. Sheetting shall be driven wherever possible, but when it is placed against the sides of the excavation, the spaces or voids back of the sheeting must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Excavation not to Disturb Buildings.

Section No. 69. The Contractor shall strictly observe the provisions of Section 67, 68 and 82 to the end that there shall be no disturbance, settlement or movement of buildings or other structures brought about by the excavation.

Buildings to Be Underpinned.

It is expected that compliance with the provisions of Sections 67, 68 and 82 will not be sufficient to safeguard the building at the southeast corner of 41st Street and Park Avenue, known as the Terminal Building, 103 Park Avenue, or the building known as Numbers 118 and 120 East 42nd Street immediately east of the Grand Union Hotel site. The Contractor therefore shall maintain, protect and secure and if necessary safely and permanently underpin the above-named buildings.

Underpinning Defined.

By underpinning is meant such method of construction as will transmit the foundation load directly through the underpinning structure to such lower level as is necessary to secure the buildings and which will relieve the adjacent ground from improper lateral pressures. The underpinning shall be designed to furnish a safe and permanent support for each independent building. To accomplish this result, the Contractor shall use such methods of underpinning, pneumatic or otherwise, as special conditions may require and the Engineer shall approve.

Before the work is proceeded with, the Contractor shall submit to the Engineer, for his approval, drawings in duplicate indicating the proposed methods of underpinning or maintaining, protecting and securing the above buildings.

Payment for Underpinning and Securing.

Section No. 70. For the work required to maintain, protect and secure and if necessary safely and permanently underpin the buildings as provided in Section No. 69, payment will be made at the prices stipulated in Schedule Item 4-BB. These prices shall include payment for all work, labor and material of whatever nature required in connection with maintaining, protecting and securing and if necessary underpinning the building proper, such as side walls both interior and along transverse streets, partition walls both parallel and perpendicular to the building front, interior columns, and any other work which may be required, and no allowance will be made therefore under any other Schedule Item or otherwise. The prices are not to include the payment for maintaining, protecting and securing and underpinning where necessary, vaults, area ways, retaining walls, fences, stoops or porches, but the payment for such work, when required, shall be deemed to be included in the prices stipulated for excavation in Schedule Items 1 and 3. In cases where there is a building which has not been maintained, protected and secured and, if necessary, underpinned, or in cases where the adjacent property is vacant but it is required to maintain, protect and secure and, if necessary, underpin vaults, areaways, retaining walls, fences, stoops or porches in front of such building or such vacant property, the payment for such work shall be deemed to be included in the prices stipulated for excavation in Schedule Items 1 and 3. If ordered by the Engineer, the Contractor shall dig test pits alongside the building foundations to determine the necessity for maintaining,

*For excavation where tunneling methods are used, see Subdivision 24.

protecting and securing and underpinning a building. Payment for such test pits will be made at the price stipulated in Schedule Item 2-A.

Payment for Sheetting.

Section No. 71. No payment shall be made for sheetting left in the ground or in the work, unless the Engineer shall in writing require it to be left in, in which case payment shall be made for the sheetting so left in as measured by the Engineer, at one-half the current market price for new material of the same grade, character and dimensions, and without any allowance or payment for placing the same. This section applies only to the sheetting in trench work.

Timber for Temporary Purposes.

Section No. 72. All timber used for sheetting, shoring, bracing, decking or other temporary purposes shall be sound and free from any defects that may impair its strength. It shall be provided, placed and removed at the Contractor's own cost and expense. The top or wearing surface of all decking used for carriages shall be of hard yellow pine (unless otherwise permitted), sound, straight, and free from all shakes and large loose knots. All sheetting and timber used temporarily shall be put in place by skilled mechanics, keyed tight by wedges where necessary, and so arranged as to be withdrawn readily without endangering the adjoining soil.

Vaults of Abutting Property.

Section No. 73. The removal, where necessary, of all walls and other parts of vaults, areas and coal holes of abutting property along the line of the Railroad that are within the ordered net lines of excavation shall be considered as earth excavation as provided in Section No. 87, but the restoration of all such walls and other parts of vaults, areas and coal holes originally within the ordered net lines of excavation, when susceptible of classification, will be paid for at the unit prices specified in the Schedule applicable in the opinion of the Engineer to the several classes of work and material involved in such restoration; or when in the opinion of the Engineer not susceptible of classification such work will be paid for under Article XII.

The above is not to be construed, however, as applicable to any work beyond the ordered net lines of excavation, which shall be done at the Contractor's own cost and expense.

Vaults Disturbed.

Section No. 74. Wherever vaults of abutting property are broken through or otherwise disturbed, the Contractor shall at his own cost and expense provide all materials for and erect a six-inch hollow tile wall laid in Portland cement mortar as a temporary partition on or about the building line, or as directed, that will afford proper protection to the owner or occupant of the adjoining premises. Upon the completion of the restoration of the vault such wall shall, unless otherwise directed, be immediately removed and disposed of by the Contractor at his own cost and expense.

Rock Excavation Defined.

Section No. 75. Ledge rock in place, and concrete, hollow tile and ducts in the existing Manhattan-Bronx Rapid Transit Railroad, and boulders whose volume within the ordered net lines or excess payment lines of excavation is half a cubic yard or more each will be considered as rock excavation except where tunneling methods are employed as noted in Subdivision 24 and in Sections Nos. 21 and 282.

Preparations for Rock Measurement.

Section No. 76. Whenever rock is encountered in the trench, it shall be stripped of earth in sections of not less than twenty feet in length; and the Engineer shall be duly notified, in order that he may measure or cross-section the same.

Blasting.

Section No. 77. Whenever rock or material requiring blasting is encountered in any trench or tunnel, all necessary precautions must be exercised by the Contractor, as required by the ordinances of the City relative to blasting. Explosives shall be used only of such character and strength as may be permitted by the Commission, and the right is reserved for the Engineer to direct that in special cases ordinary blasting powder only, in small charges, shall be used. Blasting shall not be done between the hours of 11 p. m. and 7 a. m. without the express permission of the Engineer and then only under such restrictions as he may impose. However, the safety of the traveling public as well as the necessary progress of the work may in special cases require that blasting be done during the hours of minimum traffic in the Manhattan-Bronx Rapid Transit Railroad.

Storage of Explosives.

Section No. 78. No larger quantity of explosives shall be kept on the line of the work than will be actually required for the twelve (12) hours of work next ensuing, and it shall be kept under lock, the key to which is to be in the hands of only the foreman or other equally trustworthy person. The amount of explosives kept in any one place shall not exceed the limit permitted by any ordinance of the City, or as may be determined by the Commission. Caps and exploders shall not be kept in the same place with dynamite and other explosives. During freezing weather, special precautions shall be taken as to the care and manipulation of dynamite.

Near Subsurface Structures.

Section No. 79. Whenever any pipe or main is encountered in or alongside the trench, the right is reserved to direct that all rock within five (5) feet of the same shall be removed by means other than blasting.

Beyond Net Lines.

Section No. 80. In rock excavation in the trenches for the Railroad the work must be regulated so as to avoid, as far as possible, shattering the rock beyond the ordered net lines of excavation. But, on account of the impracticability of excavating rock to an exact line, an allowance will be made to the Contractor for excess excavation in rock on the sides of the trench, as provided in Section No. 88.

Concrete Packing.

Section No. 81. In rock excavation in trench, when the rock is shattered beyond the ordered net lines of excavation, the concrete on the sides of the structure shall be rammed to the rock, except where backfilling is ordered. Such concrete (unless otherwise indicated on the contract drawings) will be measured at an allowed thickness of six (6) inches outside the ordered net lines of excavation, whether or not it is actually of such thickness, and will be paid for at such thickness at the price stipulated in Schedule Item 6 where the side walls of the Railroad are not waterproofed and at the price stipulated in Schedule Item 7 where the sidewalls of the Railroad are waterproofed. Any concrete outside of such six (6) inch allowed thickness or outside of such greater allowed thickness as may be indicated on the contract drawings shall be provided and placed at the Contractor's own expense.

Any excess excavation in the bottom of the trench below the net line of excavation will be replaced by a compacted backfill between supporting walls and columns and by concrete underneath supporting walls and columns, placed at the Contractor's expense. (See Section No. 93.)

Close Drilling.

Section No. 82. Generally the central portion of the excavation must, when directed by the Engineer, be kept some distance in advance of the excavation near the sides, and if the rock, owing to its general character and structure, has a tendency to break large, or the strike and dip of the stratification indicate a liability to slip or slide into the excavation, the Contractor must place the drill holes at close intervals on the established lines for excavation and must also, if necessary, use timbering, shoring or bracing in order to avoid excessive excavation and to preserve the established lines thereof and to safeguard adjacent buildings. (See also Section No. 449.)

Pumping.

Section No. 83. Whenever water is encountered in trenches, the same shall be removed by bailing or pumping, great care being taken when pumping that the surrounding particles of soil be not disturbed or removed. If necessary to prevent such disturbance, the pumping must be done by a series of driven wells whose points are protected by fine wire cloths, the rate of flow at each well being made so slow as not to remove the particles of soil; or the pumping must be done by other means approved by the Engineer. The discharge from all pumps shall be conducted into the adjacent sewers, and the discharge pipes shall be so arranged as to be readily inspected at all times to ascertain if the water is free from particles of soil.

Carts to Be Tight.

Section No. 84. All carts, buckets or other vehicles used by the Contractor for the removal of material shall be tight and so arranged and so loaded as not to spill. Whenever a cart, bucket or other vehicle so used is leaky or unsuitable, it shall be immediately withdrawn from the work on notification by the Engineer.

Removed Expeditiously.

Section No. 85. Excavated material shall be removed expeditiously and disposed of, in any place selected by the Contractor, subject to the ordinances and regulations of the City authorities governing the disposal of such material, and the regulations

of the United States Government as to the disposal or dumping of material in and about or near the Harbor of New York.

When Excavated Material May be Taken by City.

Section No. 86. If at any time during the course of construction the City shall desire for City purposes any part of the material excavated, and the cost of such disposal shall not exceed the cost to the Contractor of the method in which he is then disposing of it, the Commission may order such material dumped or turned over to the City at a point designated without cost to the City.

Earth Excavation, Definition of.

Section No. 87. Earth excavation includes the excavation of all materials of whatever nature encountered in the trenches, except rock excavation as defined in Section No. 75 and except as specified in Section No. 449.

Excavation in Trenches, How Measured.

Section No. 88. The net outside width of the railroad structure, as ordered and indicated on the drawings, and the depth of the railroad structure, also as ordered and as indicated on the drawings are the ordered net lines of excavation and will govern as to width and depth in the measurements for payment for excavation for the Railroad, except in tunnel excavation and except that when rock is encountered, because of the impracticability of excavating to an exact line, an excess excavation on the sides of the trench will be measured at an allowed width of six (6) inches outside the ordered net lines of excavation below the top surface of the rock, whether such excavation is actually of such width or not. For certain parts of the work pay lines for excavation differing from those stated above are shown on the contract drawings, and will govern as to measurement and payment. No excess rock excavation will be allowed below the ordered net lines of excavation at the bottom of the trench; except that rock cores, such as island platforms, required to be left within the limits of the excavation will be measured with side slopes of one-half ($\frac{1}{2}$) horizontal to one (1) vertical. No deduction from the volume of excavation determined by the ordered net lines of excavation will be made on account of vault or area space or spaces occupied by pipes and other subsurface structures, except as provided in Section No. 449 with respect to the space within the net inside lines of the structures of the Manhattan-Bronx and Steinway Tunnel Railroads, the base of rail in the case of said Manhattan-Bronx Railroad limiting the bottom of said space. Under no circumstances will a double allowance be made for any excavation.

For the portion of the southbound local track of the Railroad which is under the Manhattan-Bronx Rapid Transit Railroad, the base of rail of said Manhattan-Bronx Rapid Transit Railroad will limit the upper surface for such measurement and payment.

When the net lines of excavation are not definitely fixed by the drawings, they shall be determined by the Engineer.

No Allowance Outside of Ordered Net Lines.

Section No. 89. There will be no measurement or allowance made nor money paid for excavation outside (below or wider than) the net measurement lines or excess rock excavation lines as above indicated, and no allowance shall be made for any excess excavation caused by slips or slides. It is understood and agreed that for all such matters the Contractor has estimated and allowed in the unit prices of the Schedule.

Changes of Street Grade.

Section No. 90. When the contract drawings indicate that the grades of any street, park or parkway is to be raised or when the Engineer shall order such grade to be raised the Contractor shall fill in such places to the changed grade as required, and such work shall be measured and paid for at the price stipulated for each excavation, Schedule Item 1.

Payment for Excavation.

Section No. 91. Excavation except as elsewhere provided shall be paid for at the prices stipulated in Schedule Item 1 for excavation in earth and Schedule Item 3 for excavation in rock.

Prices for Excavation to Include.

Section No. 92. The prices herein stipulated for excavation, Schedule Items 1 2-A, 3 and 3-A are to include the cost of the disposal of the materials excavated, of backfilling, of all decking and bridging, of all sheeting and bracing, and of maintaining and supporting of trenches during and after excavation, of all pumping and bailing, and of the maintenance and support, with all incidental work, labor and material of any kind, of all surface, subsurface and overhead structures and surfaces of whatever nature and their appurtenances, payment for the maintenance and support of which is not herein elsewhere specifically provided for under other Schedule Items.

SUBDIVISION 6.

Backfilling.

Quality of Material—How Placed.

Section No. 93. The trenches at the sides of and over the top of the Railroad and wherever backfilling is necessary, including any void spaces of vaults or other structures below the ordered net lines of excavation which it may be necessary to fill or grade in order to provide the sub-grade for the Railroad, shall be backfilled with sand, gravel or other good clean earth, free from perishable material and from stones exceeding six (6) inches in diameter, and not containing in any place a proportion of stone of or below that size exceeding one (1) part of stone to five (5) parts of earth. The filling shall be compacted by flooding with water or by ramming in layers not exceeding six (6) inches in depth, as required by the Engineer. In rock excavation in trench, where the rock is shattered beyond the established line of excavation, concrete packing or compacted backfill shall be provided in accordance with Section No. 81.

Subsurface Structures—Frozen Material Not Permitted.

Section No. 94. Whenever pipes, sewers, or other subsurface structures are met with, the filling must be carefully packed, rammed and tamped under and about such subsurface structures, special tools being used for the purpose. No filling of trenches with frozen earth will in any case be permitted, nor will any filling be permitted over frozen material.

Sheeting Removed.

Section No. 95. As fast as the work of filling permits, sheeting and other timber supporting the sides of the excavation shall be carefully withdrawn, and the spaces left by the removal of such material carefully backfilled, but if directed by the Engineer, the sheeting shall be left in place.

How Paid For.

Section No. 96. The cost of backfilling is to be deemed to be included in the prices paid for earth and rock excavation, Schedule Items 1, 2-A, 3 and 3-A.

SUBDIVISION 7.

Piling and Timbering.

Character of Piles.

Section No. 97. If in the judgment of the Engineer the ground is of such character as to require piling, the Contractor shall drive such piles as the Engineer directs. The piles shall be of good, sound pine or spruce, or other acceptable timber, straight and free from shakes; they shall be not less than twelve (12) inches in diameter at the butt end, or less than six (6) inches in diameter at the point, and shall be driven to the satisfaction of the Engineer and by means of a steam hammer driver if so required by him. If necessary the points of the piles shall be protected by proper shoes, and the butts by rings or caps. Piles shall not be spliced unless permitted by the Engineer, and then in such manner as he directs. Piles shall be carefully cut off to the grade given by the Engineer.

Piles Driven in Required Location.

Section No. 98. Piles shall be driven in the position and manner and to the depth ordered; if driven in a wrong position or injured in any way by driving they must be withdrawn and replaced by others. After being driven they shall be cut off to a true plane for proper adjustment with capping timber or masonry.

Payment for Timber Piles.

Section No. 99. Timber piles will be paid for at the price stipulated in Schedule Item 12, which price is to cover the cost of furnishing, driving and preparing the piles ready for the capping timbers or masonry, and the portion cut off and removed will not be included in the length measured for payment. No test piles, guide piles, or piles other than those that are a part of the finished foundation and are included within the net width of the finished foundation will be paid for.

Concrete Piles.

Section No. 100. If in the judgment of the Engineer special conditions so require, piles of reinforced concrete of an approved form of construction shall be used.

Payment.

Section No. 101. Payment for piles other than timber piles will be as provided in Article XII.

Grillage.

Section No. 102. Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

Section No. 103. All foundation timber shall be of pine or spruce, or other timber permitted by the Engineer, sound and free from shakes. It shall be of such dimensions, and laid in such manner, as the special plans to be issued shall require, and held in place by bolts, spikes or good seasoned oak or locust treenails.

Measurement and Payment.

Section No. 104. No wastage is to be allowed for, and the estimate of the quantities of foundation timber used will be based on the amount ordered by the Engineer and placed according to his directions. Payment for foundation timber will be made at the price stipulated in Schedule Item 13.

SUBDIVISION 8.

Cement.

Portland Cement.

Section No. 105. All cement used in the work shall be true Portland cement, by which is meant the finely pulverized product, resulting from the calcination to incipient fusion of a properly proportioned intimate mixture of argillaceous and calcareous earths or rocks to which no addition greater than three (3) per cent. has been made subsequent to calcination.

Brand to be Approved.

Section No. 106. Before any cement is furnished, the brand shall receive the approval of the Engineer. Cement, to be acceptable, shall be of a well-known brand which has been in successful use for large engineering works in America for at least five (5) years, and which has an established reputation for uniform character. Preference will be given to cements which, by their records, show a tendency to maintain high strength of mortar with increased age.

Inspection.

Section No. 107. Cement shall be subject to inspection at the place of manufacture or on the work, and to such tests as may be ordered by the Engineer. The Engineer or his representatives shall have access at all times and places to inspect the methods of manufacture, storage and protection, and shall have liberty to inspect the daily laboratory records of tests and analyses at the cement works.

Tests.

Section No. 108. In general, tests will conform to the methods recommended by the Committee on Uniform Tests of Cement of the American Society of Civil Engineers. Unless otherwise directed, samples will be taken at the place of manufacture by a representative of the Engineer, and sent to the Commission's laboratory, where the tests will be made. If required, tests will be made on the individual samples, without intermixing.

Specific Gravity and Color.

Section No. 109. The cement shall have a specific gravity of not less than 3.10 nor more than 3.25 after being thoroughly dried at a temperature of 212 degrees Fahr. The color shall be uniform, bluish gray, free from yellow or brown particles.

Chemical Analyses.

Section No. 110. Chemical analyses of cement made from time to time shall show a reasonably uniform composition. Cement shall not contain more than 1.75 per cent. of sulphuric anhydride (SO_2) nor more than 4 per cent. of magnesia (MgO).

Fineness.

Section No. 111. The fineness of the cement shall be such that it shall leave by weight a residue of not more than eight (8) per cent. on a No. 100, and not more than twenty-five (25) per cent. on a No. 200 sieve; the wires of the sieves being respectively 0.0045 and 0.0024 inch in diameter.

Time of Setting.

Section No. 112. It shall not develop initial set in less than thirty (30) minutes unless a more quickly-setting cement is specifically required, and shall develop hard set in not less than one (1) hour nor more than ten (10) hours.

Soundness.

Section No. 113. Pats of neat cement, after remaining one (1) day in moist air, shall be kept in air or water of normal temperature for at least twenty-eight (28) days, or shall be exposed to an atmosphere of steam, above boiling water, in a loosely closed vessel for at least five (5) hours; and the separate parts under any of these conditions, shall remain hard without any indications of checking, cracking, distortion, disintegration or blotching.

Tensile Strength.

Section No. 114. Neat cement briquettes shall have at the end of one (1) day in moist air a breaking strength, per square inch of sectional area, of not less than one hundred and fifty (150) pounds; at the end of seven (7) days—one (1) day in air, six (6) days in water—of not less than five hundred (500) pounds; at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than six hundred (600) pounds. The strength at twenty-eight (28) days shall be not less than that at seven (7) days.

Mortar Briquettes.

Mortar briquettes, composed of one (1) part of cement and three (3) parts of standard Ottawa sand, by weight, shall have at the end of seven (7) days—one (1) day in air, six (6) days in water—a breaking strength, per square inch of sectional area, of not less than two hundred (200) pounds; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than three hundred (300) pounds. The strength at twenty-eight (28) days shall show an increase of not less than fifty (50) pounds over the strength at seven (7) days.

Long-time Tests.

Section No. 115. Tests will be made from time to time extending over longer periods than twenty-eight (28) days. If such tests show a tendency to unsoundness or unusual reduction in strength with increased age, the Engineer shall have the right to prohibit the further use of that brand and to require that another brand be substituted.

Storage During Tests.

Section No. 116. All cement shall be held in storage to allow ample time for tests to be made before the cement is required for use in the work.

How Contained.

Section No. 117. Cement shall be packed and delivered in canvas sacks or other strong, well-made packages, plainly marked with the manufacturer's brand, and sealed in an approved manner. The weights of such packages shall be uniform.

Methods of Storing.

Section No. 118. The Contractor shall at all times keep in store on the work, or at some point convenient thereto, an abundant supply of cement, so as to guard against possible shortage. It shall be stored in a weather-tight building, with a tight floor a proper distance above the ground, and with sufficient floor space to admit of storing each lot of cement, of not more than two hundred (200) barrels, or its equivalent, separately, so as to facilitate identification of each individual lot in case of necessity for further tests or rejection. Cement that has become partially set or otherwise damaged shall not be used.

SUBDIVISION 9.

Mortar.

Ingredients; Mixing; Sand.

Section No. 119. All mortar shall be prepared from cement and sand approved by the Engineer. These ingredients shall be thoroughly mixed dry in the proportions specified below; sufficient water shall then be added to produce a stiff paste. Water used in mortar, grout or concrete must be clean, fresh water. Salt water will not be permitted. The mortar shall be freshly mixed for the work in hand, in proper boxes made for that purpose, and no mortar shall be used that has stood beyond such limit of time as may be determined by the Engineer.

Sand used for mortar shall be clean and shall be graded from fine to coarse to the satisfaction of the Engineer. It shall contain no grains which will not pass a one-fourth ($\frac{1}{4}$) inch screen, nor more than six (6) per centum by weight which will pass a No. 100 sieve.

Sand shall be of such quality that mortar composed of one (1) part of Portland cement and three (3) parts of sand by weight will have a tensile and compressive strength equal to mortar of the same consistence made from one (1) part of the same cement and three (3) parts of standard Ottawa sand.

How Measured.

Section No. 120. For purposes of mixture, three hundred and seventy-five (375) pounds of Portland cement shall be estimated at three and one-half ($3\frac{1}{2}$) cubic feet of volume. The proportions for brick and stone masonry shall be one (1) part cement to two (2) parts sand; for pointing, one (1) part cement and one (1) part

sand; for concrete masonry, as specified under the head of concrete; and for other classes of work, as directed by the Engineer.

Grout.

Section No. 121. If required by the Engineer, a grout, consisting of one (1) part fine, clean and sharp sand and one (1) part of Portland cement, shall be pumped in under pressure, so as to completely fill all the voids in or behind the masonry.

Payment for Grout.

Section No. 122. Where grout is ordered and used, it shall be paid for at the price herein provided, Schedule Item 11.

SUBDIVISION 10.

Masonry.

Laid in Portland Cement.

Section No. 123. All masonry, except as otherwise specified, shall be laid in Portland cement mortar, and shall be built of the forms and dimensions shown on the plans, or as directed by the Engineer from time to time; and the system of joining or bonding ordered by the Engineer shall be strictly followed.

Water Not to Interfere With.

Section No. 124. Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

Section No. 125. During freezing weather no masonry shall be built unless properly protected against frost, and masonry shall not be built in exposed places where in the opinion of the Engineer it is impracticable to give such protection. During freezing weather or when there is frost in the materials to be used in the masonry, the materials shall be heated. The Contractor shall provide such appliances, subject to the approval of the Engineer, as are necessary for the heating of the sand, stone and other materials.

Protected in Freezing Weather.

Section No. 126. During freezing weather all masonry shall be protected by a suitable covering of salt hay, canvas, tarpaulin or by such material or in such ways as may be necessary to insure it against freezing.

Hot Weather.

Section No. 127. During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Pointing.

Section No. 128. Unless otherwise permitted, every joint that is to be pointed shall be raked out, within two (2) days after being laid, to a depth of at least two (2) inches.

Mortar for Pointing.

Section No. 129. Pointing of the face joints of masonry shall be thoroughly made with cement mortar mixed in the proportion of one (1) part of cement to one (1) part of sand, except where otherwise specially provided.

Season for Pointing.

Section No. 130. No pointing shall be done in freezing weather, and masonry laid between December 1st and April 1st shall not be pointed until permitted by the Engineer.

Defective Masonry.

Section No. 131. Any masonry which is found to be defective from any cause whatsoever, before the final completion and acceptance of the work, must be removed and properly rebuilt, or if damaged during such time must be properly repaired.

Stone Cleaned.

Section No. 132. All stone before being laid shall be thoroughly cleaned, and if so directed by the Engineer shall be washed.

SUBDIVISION 11.

Concrete.

How Composed.

Section No. 133. The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dust and dirt, and mixed together with the proportion of mortar specified below. The water used in mixing concrete must be clean fresh water, no salt water being permitted.

Sand.

Section No. 134. Sand for concrete shall be of the kind specified for mortar in Subdivision 9.

Stone.

Section No. 135. Stone for concrete shall be sound, clean gravel, or sound, hard, broken limestone, or trap rock, or a mixture of such gravel and broken stone. If a mixture of gravel and broken stone is used, the Engineer may require that the gravel and broken stone be stored separately on the work and mixed in single batches as needed.

Sizes of Stone.

Section No. 136. The gravel or broken stone or the mixture of gravel and broken stone shall be graded from fine to coarse, and that which is all of one size, or practically so, shall not be used. It shall be screened or washed so as to remove all dust, and it shall contain no pieces that will pass through a hole three-eighths ($\frac{3}{8}$) of an inch in diameter, and no pieces that will not pass through a hole one and three-fourths ($1\frac{3}{4}$) inches in diameter. Broken stone or gravel for concrete, graded as above, but between three-eighths ($\frac{3}{8}$) and three-fourths ($\frac{3}{4}$) of an inch in diameter, may be required for use in special parts of the work.

Rubble Concrete.

Section No. 137. In concrete where the thickness is thirty (30) inches or more, if permitted by the Engineer, the Contractor may imbed in the same, pieces of clean, sound stone whose greatest diameter does not exceed twelve (12) inches and whose least diameter or thickness is not less than three-quarters ($\frac{3}{4}$) of the greatest diameter. These stones shall be set by hand in the concrete as the layers are being rammed, and so placed that each stone is completely and perfectly imbedded. No two (2) stones shall be within six (6) inches of each other and no stones within four (4) inches of an exposed face, nor shall any such stone be placed nearer than six (6) inches to any reinforcing metal built in the concrete.

Proportions.

Section No. 138. The proportions of cement, sand and stone (or gravel) used in making concrete shall be by volume as cast into the measuring box and shall be as follows:

Section No. 139. Concrete in floor, sidewalls and roof one (1) part of cement, two (2) parts of sand and four (4) parts of stone.

Section No. 140. Protective concrete outside of waterproofing lines on sides and roof, one (1) part of cement, two (2) parts of sand and four (4) parts of stone.

Mixing by Machine.

Section No. 141. Whenever practicable, concrete shall be machine mixed. A rotary machine of a pattern approved by the Engineer, and mixing only one batch at a time, shall be used. Concrete shall not be mixed on the surface of the street or decking on the line of the work unless specifically permitted, but the mixing shall be done as close as practicable to the work so as to avoid too great a lapse of time between the mixing and the placing of the concrete in the forms.

Mixing by Hand.

Section No. 142. When concrete is mixed by hand the stone or gravel shall be spread on a platform in a bed about six (6) inches thick, and shall be thoroughly wet. Sand shall be spread on a platform and the requisite portion of cement spread on the sand. After thoroughly mixing the latter, the dry mixture thus formed shall be spread evenly over the bed of stone wet as above, and the whole turned over until thoroughly mixed, but not less than four (4) turnings on the mixing board shall be allowed in any case, water being added as necessary. Care shall be taken to keep the bed of concrete wet and avoid piling.

How Laid.

Section No. 143. Concrete shall be placed immediately after mixing in layers of such thickness as may be directed by the Engineer, and shall be thoroughly compacted throughout the mass by ramming or spading, special tamping bars or tools being used as approved by the Engineer. The amount of water used in making the concrete shall be as approved by the Engineer. If a small amount of water has been used in mixing, ramming shall be continued until the water flushes to the surface; as a rule, however, concrete shall be placed wet.

Made Smooth to Receive Waterproofing.

Section No. 144. The surface of concrete to which waterproofing is to be applied shall be made smooth at the time of placing and shall be carefully protected from injury by barricades or otherwise, until thoroughly set.

Time for Hardening.

Section No. 145. Concrete shall be allowed to set for twelve (12) hours, or more, if so directed, before any work shall be laid upon it; and no walking over or working upon it shall be allowed while it is setting. Concrete shall not be flooded with water before being thoroughly set.

Rock Surfaces to be Cleaned.

Section No. 146. Before laying concrete on rock surfaces the latter shall be swept clean of all debris and dirt, and when laid on earth the earth shall be rammed as directed before placing the concrete.

Surface Rough for Bonding.

Section No. 147. Wherever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete can be laid, care shall be taken to flush the cement to such surface, and such dovetails or grooves shall be formed as may be necessary to insure a good bond with the new work; and if deemed necessary by the Engineer, the joints shall be reinforced with steel bars or dowels, furnished by the Contractor at his own expense.

Joints Cleaned.

Section No. 148. In all cases of joints of old with new work the old surfaces shall be thoroughly cleaned and wet, and a coating of mortar or cement shall be applied, if required, before placing the concrete.

Forms.

Section No. 149. Suitable forms shall be provided by the Contractor to support the concrete while being placed in the walls or roofs. These forms shall be immediately replaced by new ones as soon as they commence to lose their proper shape. Before being used they shall be carefully cleaned of cement and dirt in order to provide a perfectly smooth face to the exposed surface of the concrete. The forms shall be made of wood, kept carefully planed; or made of metal sufficiently thick to retain their shape without the use of wood.

Certain Forms not Permissible.

Section No. 150. No forms made of wood, and covered with sheet iron will be permitted.

Forms, How Made.

Section No. 151. The joints in forms shall be water-tight. If forms are made of wood the boards shall be tongued and grooved where required by the Engineer.

Precautions in Placing.

Section No. 152. Every precaution shall be taken to construct the forms in such manner as will insure a smooth and even surface on concrete which is to remain exposed; except that on track ceilings through stations, on ceilings over platforms and on walls within the limits of station finish work, the concrete shall be left with a rough surface to insure a proper bond between it and the station finish plaster which is to be applied under another contract. For obtaining this rough concrete surface, the Contractor shall provide special forms approved by the Engineer.

Setting and Removal of Forms.

Section No. 153. The forms shall be set true to line, firmly secured, and be so tight as not to allow water in the mortar to escape; they shall be thoroughly wet before placing the concrete and shall be removed as soon after the concrete has been placed as in the judgment of the Engineer may be done with safety to the work. Immediately on the removal thereof the faces that will remain exposed shall be carefully examined and any irregularities of the surface corrected; projections shall be removed and voids filled with mortar. If, however, the voids are such as to indicate an excessive loss of mortar, portions of the concrete shall be cut out to the fullness of such defects and the space refilled with a rich concrete or mortar in such proportions and in such manner as the Engineer may direct.

Reinforcement Steel.

Section No. 154. Where reinforcement steel or wire mesh is used, efficient means shall be provided to maintain it in the exact position it is to occupy in the completed work, and to prevent it from becoming dislodged, or moved in any manner, when concrete is placed.

Surface Finish.

Section No. 155. Exposed faces of concrete shall be left with the natural cement finish, the object in view being to obtain a generally smooth finished surface of uniform color. Immediately following the removal of the forms, the removal of the projections and the filling of voids as provided above, the exposed surfaces shall be rubbed down in such a manner, approved by the Engineer, as will insure this result.

Within Station Limits.

The preceding paragraph of this Section does not apply within station limits.

Impervious to Water.

Section No. 156. It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view, and on the roof of the Railroad, if waterproofing is not used, the top surface of the concrete shall be carefully troweled as may be directed in order to add to its imperviousness.

Drip Pans.

The surfaces of drip-pans under ventilating openings and other surfaces which require special provision for drainage shall be troweled.

Measurements and Payment.

Section No. 157. Concrete masonry shall be measured in place in the work to the prescribed net lines ordered by the Engineer or to such excess lines outside of net lines as are herein elsewhere provided for, and shall be paid for at the prices stipulated in Schedule Items 6 and 7; which prices are to include the cost of all scaffolding, centers, forms, etc., and removing the same, all troweling where required, and all other work, labor and material incidental thereto.

Payment for Concrete Backing or Filling.

Section No. 158. Concrete backing or filling outside of the ordered net lines of excavation will be paid for as provided in Section No. 81.

SUBDIVISION 12.

Brick Masonry.

Quality.

Section No. 159. Bricks for masonry shall be of the best quality common bricks, burned hard entirely through, regular and uniform in shape and size and of compact texture.

Hollow Terra Cotta Blocks.

Section No. 160. Hollow terra cotta blocks or bricks may be required on the outside of walls of the structure or at such other places as the Engineer may direct. They shall be of the best porous terra cotta as approved by the Engineer, and shall be of such thickness and shall be laid in such manner as hereinafter specified or as the Engineer may direct.

In Station.

Similar terra cotta blocks or bricks may be required in station work.

How Laid.

Section No. 161. All brick masonry shall be laid in mortar of the quality above described, except that in exposed locations coloring matter may be added, if required by the Engineer. The bricks shall be laid to line with joints in the face work not exceeding one-quarter ($\frac{1}{4}$) of an inch in the beds, and three-eighths ($\frac{3}{8}$) of an inch on ends; the bricks to be thoroughly wet before laying and to be completely embedded in mortar under the bottom and on the sides and ends at one operation, care being taken to have every joint full of mortar.

All exterior surfaces shall be smooth and regular.

Cleaned.

Section No. 162. The inside faces of all arches and other exposed parts shall have all the mortar scraped off and washed clean immediately after the centers have been struck, and shall be pointed and left in neat condition.

No "Bats" or Culls.

Section No. 163. All bricks of whatever nature shall be carefully culled and if necessary gauged before laying, at the expense of the Contractor. No "bats" shall be used except in large masses of brickwork, where a moderate proportion, to be determined by the Engineer, may be used, but nothing smaller than half bricks.

Racked or Toothing.

Section No. 164. All unfinished work shall be racked back or toothing, as directed by the Engineer, and before new work is joined to it the faces of the brick in the old work must be scraped entirely clean, scrubbed with a stiff brush and be well moistened.

Special Bricks.

Section No. 165. Where necessary to make a neat joint in connection with steel framework, or at corners, curves, or other similar places, special bricks of proper shape shall be furnished and used. All centers and forms shall be made to fit the curves of the work; they shall be put up and removed in a manner satisfactory to the Engineer.

Payments.

Section No. 166. Brick masonry shall be measured to the lines indicated and shown on the drawings or as ordered by the Engineer and shall be paid for at the price stipulated in Schedule Item 9 for common brick masonry and Schedule Item 10 for hollow terra cotta brick or tile masonry of any thickness ordered, except as specified in Section No. 74; these prices shall include the cost of all scaffolding, forms, centers, etc., and the removal of the same, of all plastering and pointing, and of all other incidental work, labor and material.

SUBDIVISION 13.

Stone Masonry.

Where Used.

Section No. 167. Rubble stone masonry will be used if required by the Engineer for supporting the street railroads over the roof of the Railroad where permanent supports are required, and at such other places as the Engineer may require.

How Laid.

Section No. 168. Rubble stone masonry shall be made of sound, clean stone of suitable size, quality and shape for the work in hand and shall be laid in mortar mixed in the proportion of one (1) part of cement to three (3) parts of sand. All beds and joints shall be well filled with mortar and the work must be thoroughly bonded.

Dry Rubble Masonry.

Section No. 169. In connection with the construction of sewers, or wherever else directed by the Engineer, dry rubble masonry shall be used. It shall consist of sound, clean stone not less than three (3) inches thick and one (1) cubic foot contents, laid on natural beds and bonded to give the greatest degree of strength, with such spalls as are required for leveling and bonded to give the greatest degree of strength.

Measurements and Payments.

Section No. 170. Rubble stone masonry shall be measured in place in the work and to the lines ordered by the Engineer, and it shall be paid for as herein stipulated under Schedule Item 8 if with mortar, and under Item 8-A if dry.

Other Masonry.

Section No. 171. In case, during the progress of the work, stone masonry of a different class from that specified above shall be required by the Engineer, the same shall be constructed according to specifications applicable to the best work of such class, and it shall be paid for as provided in Article XII.

SUBDIVISION 14.

Waterproofing.

General Limits of Waterproofing.

Section No. 172. In general, waterproofing of the structure will be limited to the roof and to those surfaces near ground water or mean high water if ground water level is found for any reason to be below mean high water. At other places free drainage shall be provided by pipe drains, hollow tile or broken stone.

At Stations.

At stations the roof and sidewalls also shall be waterproofed. Waterproofing shall be properly spliced to the waterproofing of the existing Manhattan-Bronx Rapid Transit Railroad.

Protecting Masonry.

Section No. 173. The protecting masonry shall be concrete, common bricks or hollow terra cotta blocks, as directed, laid and paid for as herein elsewhere provided, and shall not be less than four inches in thickness.

Laid Against Sheeting.

Section No. 174. In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

Surfaces to be Made Smooth.

Section No. 175. All surfaces to which waterproofing is to be applied shall be made as smooth as possible; on these surfaces there shall be spread hot melted pitch in a uniform thick layer; on this layer of pitch shall be laid a treated woven fabric of such material as may be approved by the Engineer; this process shall be repeated until such number of layers as may be required by the Engineer have been placed and a final coat of pitch shall then be applied. In tunnel construction only coal-tar pitch shall be used.

"Ply" Defined.

Section No. 176. The term "ply" as used in these specifications shall mean a layer of treated woven fabric (except the dry ply), both sides of which shall be coated with pitch or asphaltum at the time of laying.

Number of Plies.

Section No. 177. The number of plies of waterproofing over the roof between stations shall in no case be less than three (3), except as hereinafter provided where brick laid in asphalt mastic is used.

At Stations.

On the sidewalls at stations the same conditions as in the preceding paragraph shall apply.

Brick in Asphalt Mastic.

Section No. 178. On the sides and bottom of the structure below a line of two (2) feet above ground water, or, if ground water is below mean high water level, then two (2) feet above mean high water, one (1) ply of waterproofing, as described above, shall be used with one or more layers of brick laid in asphalt mastic; the number of layers of bricks to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies shall be as local conditions require and as directed by the Engineer.

At Stations.

The requirements in the preceding paragraphs of this section likewise shall apply to the roof of the structure within station limits and over the tracks passing through the stations within said limits.

Quality of Brick.

Section No. 179. The quality of brick shall be the same as provided in Subdivision 12. The brick shall be properly dried and shall be heated before laying.

Measurements and Payments.

Section No. 180. Brick in asphalt mastic will be measured in place to the lines ordered by the Engineer, and will be paid for at the price herein stipulated, Schedule Item 16.

Ply Substitute for Brick in Asphalt.

Section No. 181. Six (6) plies of waterproofing may be substituted for brick in asphalt mastic, if approved by the Engineer, and will be paid for as provided for fabric waterproofing.

Asphalt Mastic.

Section No. 182. Asphalt mastic shall contain not less than one-third ($\frac{1}{3}$) asphalt, the other ingredients to be sand and limestone dust or sand and cement. The ingredients to be in proportions governed by local requirements and weather conditions. In melting and mixing the mastic on the work its temperature shall not exceed 350 degrees Fahr. All packages containing asphalt shipped to the work must be distinctly labeled with the manufacturer's name and the brand or number of the mixture.

Leaks Stopped.

Section No. 183. Any masonry that is found to leak at any time prior to the completion of the work and final acceptance thereof by the Commission shall be cut out and the leak stopped, at the sole expense of the Contractor.

Pitch.

Section No. 184. Pitch shall consist of either coal-tar or asphalt as the Engineer shall elect; it must be delivered on the work in packages that are plainly marked with the manufacturer's brand, and indicating the grade and quality of the material. In tunnel construction only coal-tar pitch shall be used.

Quality of Coal-Tar Pitch.

Section No. 185. The coal-tar pitch shall be straight-run pitch containing not less than twenty-five (25%) per centum and not more than thirty-two (32%) per centum of free carbon, which will soften at approximately 70° F., and melt at 120° F., being a grade in which distillate oils distilled therefrom shall have a specific gravity of 1.05.

Quality of Asphalt.

Section No. 186. The asphalt used shall consist of fluxed natural asphalt, or asphalt prepared by the careful distillation of asphaltic petroleum, subject to the approval of the Engineer, but however prepared, it shall comply with the following requirements:

The asphalt shall contain in its refined state not less than 95 per cent. of bitumen soluble in cold carbon disulphide, and at least 98½ per cent. of the bitumen soluble

in cold carbon disulphide shall be soluble in cold carbon tetrachloride. The remaining ingredients shall be such as not to exert an injurious effect on the work.

The asphalt shall not flash below 350 degrees Fahr. when tested in the New York State Closed Oil Tester. When 20 grams of the material are heated for five hours at a temperature of 325 degrees Fahr. in a tin box 2½ inches in diameter it shall not lose over 5% by weight, nor shall the penetration at 77 degrees Fahr. after such heating be less than ½ of the original penetration.

The melting point of the material shall be between 150 degrees and 175 degrees Fahr. as determined by the Kraemer and Sarnow method.

The consistency shall be determined by the penetration which must be between 75 and 100 at 77 degrees Fahr.

A briquette of the solid bitumen of cross section of one square centimeter shall have a ductility of not less than 20 centimeters at 77 degrees Fahr., the material being elongated at the rate of five (5) centimeters per minute. (Dow moulds.)

All tests herein specified must be conducted according to methods approved by the Engineer.

Penetrations indicated herein refer to the depth of penetration in hundredth centimeters of a No. 2 cambric needle weighted to 100 grams at 77 degrees Fahr. acting for 5 seconds.

Woven Fabric for Waterproofing.

Section No. 187. The fabric to be used shall be a woven fabric which shall have been treated with coal-tar pitch or asphalt before being brought on the work. The fabric and the material used in its treatment shall be approved by the Engineer.

Concrete to Be Dry.

Section No. 188. All concrete shall be dry before waterproofing is attached. If, in the judgment of the Engineer, it is impracticable to have the concrete dry, then there shall be first laid a layer of treated felt of approved quality, on the upper surface of which is to be spread the first layer of coal-tar pitch or asphalt; the said layer of felt shall then be paid for as a dry-ply, Schedule Item 15 (i).

Each layer of coal-tar pitch or asphalt must completely and entirely cover the surface on which it is spread without cracks or blowholes.

Fabric Waterproofing to Be Carefully Laid.

Section No. 189. The fabric must be rolled out into the coal-tar pitch or asphalt while the latter is still hot, and pressed against it so as to insure its being completely stuck over its entire surface, great care being taken that all joints are well broken by overlapping, and that, unless otherwise permitted, the ends of the rolls of the bottom layers are carried up on the inside of the layers on the sides, and those of the roof down on the outside of the layers on the sides so as to secure a full lap of at least one (1) foot. Especial care must be taken with this detail.

Precautions After Laying.

Section No. 190. When the finishing layer of concrete is laid over or next to the waterproofing material, care must be taken not to break, tear or injure in any way the outer surface of the pitch.

Skilled Labor to Be Employed.

Section No. 191. None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

Measurements and Payments.

Section No. 192. Measurements will be made on the basis of area covered and the number of plies used, both as ordered by the Engineer; no account being taken of laps (except where the waterproofing joins the waterproofing of the existing Manhattan-Bronx Rapid Transit Railroad) and the waterproofing will be paid for at the prices stipulated in Schedule Items 15 and 15-A.

SUBDIVISION 15.

Steel and Iron.

Open Hearth Process.

Section No. 193. Steel shall be made by the open hearth process.

Chemical and Physical Properties.

Section No. 194. The chemical and physical properties of finished material shall conform to the following limits:

Properties.	Structural Steel.	Rivet Steel.	Steel Castings.
Phos. (Max.).....	.04%	.04%	.05%
Sulph. ".....	.05%	.04%	.05%
Mn. ".....	.60%	.60%	.80%
Si. ".....	.10%	.10%	.35%
Ult. Str.....	60000±40000	50000±4000	65000 (Min.)
Yield Point (Min.).....	55% Ult.	55% Ult.	35000
Elongation, Min. % in 8 inches.....	1500000	1500000	
Elongation, Min. % in 2 inches.....	Ult. Ten. Str.	Ult. Ten. Str.	20%
Fracture.....	Silky.	Silky.	Silky, or
Cold Bends Without Fracture.....	180° flat.	180° flat.	Fine granular
			120° (d=3t.)

Yield Point.

Section No. 195. The yield point shall be that strain, beyond which the elongation ceases to be proportional to the weight imposed, and may be indicated by drop of beam. The speed of testing shall be governed by the Inspector.

Soundness and Finish.

Section No. 196. Sufficient discard shall be made to insure sound material free from piping or excessive segregation. The material shall be finished straight and smooth, and shall be free from all seams, flaws, cracks, defective edges or other defects. Any imperfection which may develop during the progress of the work will be sufficient cause for rejection.

Steel Castings.

Section No. 197. Steel castings shall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

Section No. 198. Sample pieces for tensile and bending tests of plates, shapes and bars shall be cut from such portions of the finished product of each melt as the Inspector may designate, and shall be stamped by him; they shall have both faces rolled and both edges milled to the usual form of a standard test specimen—one and one-half (1½) inches wide on a gauged length of nine (9) inches,—or with both edges parallel. The area of the minimum section shall be not less than one-half (½) square inch.

Tests for Angles.

Section No. 199. Angles three-quarters ($\frac{3}{4}$) of an inch and less in thickness shall open flat, and angles one-half ($\frac{1}{2}$) of an inch and less in thickness shall bend shut, cold, under blows of a hammer, without sign of fracture. This test shall be made only when required by the Inspector.

Rivet Rods.

Section No. 200. Rivet rods shall be tested as rolled.

Test Pieces for Steel Castings.

Section No. 201. For steel castings the test piece shall be turned to a uniform minimum section of one-half ($\frac{1}{2}$) inch diameter, for a length of at least two and one-half (2½) inches. Specimens for bending shall be one (1) inch by one-half ($\frac{1}{2}$) inch in section.

Tests for Rivet Steel.

Section No. 202. Rivet steel, when nicked and bent around a bar of the same diameter as the rivet rod, shall give a gradual break and a fine, silky, uniform fracture.

Treatment for Test Specimens.

Section No. 204. For steel castings the number of tests will depend on the character and importance of the castings. Specimens shall be cut cold from coupons molded and cast on some portion of one or more castings from each melt. The coupons shall be annealed with the castings before being cut off.

Number of Tests.

Section No. 205. At least one tensile and one bending test shall be made from each melt of steel as rolled. In case steel differing three-eighths ($\frac{3}{8}$) inch or more in thickness is rolled from one melt, a test shall be made from the thickest and from the thinnest material rolled. Rolled steel shall be tested in the condition in which it comes from the rolls.

Rejection at Shop.

Material which, subsequent to tests at the mills and its acceptance there, develops weak spots, brittleness, cracks or other imperfections or is found to have injurious

defects, will be rejected at the shop and shall be replaced by the manufacturer at his own cost.

Retests.

If the above tests do not fulfill the requirements of these specifications, duplicate tests may be made at the discretion of the Inspector, he selecting and stamping the duplicate test pieces. If these retests meet all the requirements, the melt shall be accepted.

Variation in Weight.

Section No. 206. A variation in weight or cross section of any piece of steel of more than two and one-half ($2\frac{1}{2}$) per centum from that specified, shall be sufficient cause for rejection, except in case of sheared plates exceeding one hundred (100) inches in width, where the variation may be five (5) per centum.

Material Marked.

Section No. 207. Every finished piece of steel shall have the melt number and the name of the manufacturer stamped or rolled upon it. Bars for reinforcing concrete, rivet and lattice steel, and other small parts, may be bundled, with above marks on an attached metal tag.

Test Pieces and Facilities for Testing.

Section No. 208. The Contractor shall furnish, without extra charge, such standard test pieces as may be necessary to determine the uniform quality of the material and also the use of a reliable testing machine, with the necessary labor for testing.

Chemical Analysis.

Section No. 209. Chemical determinations of the percentages of carbon, phosphorus, sulphur and manganese shall be made by the manufacturer from a test ingot, so taken, during the casting of each melt of steel as to fairly represent the melt. Two copies of such analyses shall be furnished to the Engineer or his Inspector.

Mill Orders.

Section No. 210. The Engineer shall be furnished copies in triplicate of all mill orders, and no material shall be rolled or work done before the Engineer has been notified so that he may arrange for the inspection.

Shipping Invoices.

The Engineer shall be furnished complete copies of shipping invoices, in triplicate, with each shipment. Each invoice shall show the scale weight of each individual piece.

Wrought Iron.

Double Rolled.

Section No. 211. All wrought iron shall be double rolled, tough, fibrous and uniform in character. It shall be thoroughly welded in rolling and be free from surface defects.

Method of Testing.

Section No. 212. The methods specified for testing rolled steel shall apply generally to wrought iron. Standard test specimens shall show an ultimate strength of at least fifty thousand (50,000) pounds per square inch, and an elongation of at least eighteen (18) per centum in eight (8) inches, with fracture wholly fibrous. Specimens shall bend cold with the fibre, through one hundred and thirty-five (135) degrees, without sign of fracture, with inner radius not to exceed the thickness of the piece tested. When nicked and bent the fracture shall show at least ninety (90) per centum fibrous.

Cast Iron.

Chemical Requirements.

Section No. 213. Cast iron shall be tough gray iron made by the Cupola process, and shall contain not more than six-tenths (0.6) per cent. of phosphorus and not more than twelve one-hundredths (0.12) per cent. of sulphur. No mill cinder iron, white or burnt iron or scrap of any kind will be permitted in the composition.

Test Bar.

Section No. 214. The quality of the iron entering into castings shall be determined by means of the "Arbitration Bar." This is a bar one and one-quarter ($1\frac{1}{4}$) inches in diameter and fifteen (15) inches long, cast under the same circumstances as those which attended the casting of the full-sized piece. This bar shall sustain at the centre, when resting upon two (2) dull knife edges twelve (12) inches apart, a load of three thousand (3,000) pounds with a deflection of at least one-tenth ($1/10$) of an inch before rupture.

Number of Test Bars.

Two (2) sets of two (2) bars shall be cast from each heat; one set from the first and the other set from the last iron entering into the castings. Each set of two bars is to be made in a single mold.

True to Pattern.

Section No. 215. Castings must be sound, true to pattern, free from cracks, flaws, excessive shrinkage, and have smooth clean surfaces. They must be neatly chiseled and wirebrushed before leaving the foundry. Castings which do not accurately conform to dimensions on the plans will be rejected. Each casting shall have its distinguishing letter or number cast on at the place indicated on the plans.

Workmanship.

Quality.

Section No. 216. The workmanship shall be equal to the best practice in modern bridge works.

Shearing and chipping shall be neatly and accurately done and all portions of the work exposed to view neatly finished. All nuts exposed to view on the final structure shall be hexagonal. Lattice bars shall have neatly rounded ends, concentric with rivet holes.

Rods and Bars, Deformed Sections.

Section No. 217. Rods and bars to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

Bent Rods.

Section No. 218. Bent rods shall be bent uniformly to template in a machine or press approved by the Engineer. They may be bent either at the shop or on the work. In special cases bending hot and annealing may be required.

Material Straightened in Shop.

Section No. 219. All materials shall be straightened in the shop before being worked in any way and again straightened after punching and before assembling, if required by the Engineer or Inspector.

Size of Rivets.

Section No. 220. The size of rivets called for on plans shall be understood to mean the actual size of the cold rivet before heating.

Rivet Holes.

Section No. 221. All holes shall be accurately spaced and punched. The diameter of the punch shall be not more than one-sixteenth ($1/16$) inch greater than the diameter of the rivet. The diameter of the die shall be as small as may be required to punch a clean hole.

Punching.

Section No. 222. Punching shall be accurately done. Drifting to enlarge unfair holes will not be allowed. If the holes must be enlarged to admit the rivet they shall be reamed. Poor matching of holes will be cause for rejection.

Sub-punching and Reaming.

Section No. 223. Where sub-punching and reaming are required, the punch used shall have a diameter not less than three-sixteenths ($3/16$) inch smaller than the rivet. Holes shall then be reamed to a diameter not more than one-sixteenth ($1/16$) inch larger than the nominal diameter of the rivet. All reaming shall be done with twist drills after the material is assembled and firmly bolted together. The use of lubricants in reaming is not allowed.

Drilling.

Section No. 224. All material over seven-eighths ($7/8$) of an inch thick shall be drilled from the solid. Material over five-eighths ($5/8$) of an inch and not exceeding seven-eighths ($7/8$) of an inch in thickness shall be sub-punched and reamed.

Sheared Edges.

Section No. 225. Sheared edges of plates, exceeding five-eighths ($5/8$) of an inch in thickness in main members, shall be planed at least one-eighth ($1/8$) of an inch.

Burrs Removed.

Section No. 226. All burrs on rivet holes shall be removed.

Assembling.

Section No. 227. Riveted members shall have all parts well pinned up and firmly drawn together with bolts, before riveting is commenced. Contact surfaces shall be painted.

Riveting.

Section No. 228. Rivets when driven shall completely fill the holes, and shall be machine driven wherever possible. They shall have full concentric heads or they shall be countersunk when so required. Rivet heads shall not be flattened to less than half the diameter of the rivet on the line of the shank unless countersunk. Loose, burned or otherwise defective rivets shall be cut out and replaced. In cutting out defective rivets, great care shall be taken not to injure the adjacent material. If necessary they shall be drilled out.

Distances from center of rivet to edge of sheared plate shall not be less than $1\frac{1}{4}$ " for $3/4$ " rivets and $1\frac{3}{4}$ " for $7/8$ " rivets; distances from center of rivets to a rolled edge shall be not less than $1\frac{1}{8}$ " for $3/4$ " rivets and $1\frac{1}{4}$ " for $7/8$ " rivets. The minimum pitch for $3/4$ " rivets shall be $2\frac{1}{2}$ " and for $7/8$ " rivets $2\frac{3}{4}$ ". When material is sub-punched and reamed the pitch for $3/4$ " rivets may be made $2\frac{1}{4}$ " and for $7/8$ " rivets $2\frac{5}{8}$ ".

Use of Bolts.

Section No. 229. Generally the use of bolts instead of rivets will not be permitted, but when used in special cases the holes shall be reamed parallel, and the bolts turned to a driving fit, with the threads entirely outside of the holes. Washers not less than one-quarter ($1/4$) inch thick shall be used under the nuts. Bolts must be thickly coated with red lead paint before insertion, so as to seal the hole against moisture.

Templates.

Section No. 230. All holes for field rivets, excepting those in connections of lateral and sway bracing, shall be sub-punched and accurately drilled to an iron template, fitted with bushings, or reamed and match marked while the connecting parts are temporarily assembled in the shop. In case of splices of upper chords or other compression members, the abutting ends shall be brought to a forcible bearing.

Finished Members.

Section No. 231. Finished members shall be true and free from twists, bends or open joints. Ends of floor beams and stringers shall be faced square and true.

Rods Upset.

Section No. 232. Rods and bars which are to receive a thread shall be properly upset. Where threads are cut on steel, they shall be properly filleted.

Annealing.

Section No. 233. Steel, except in minor details, which has been partially heated, shall be properly annealed. All steel castings shall be annealed. Welds in steel will not be allowed.

Abutting Surfaces Faced.

Section No. 234. All abutting surfaces shall be accurately planed or faced, so as to insure even bearings, except where otherwise noted on the plans.

Stiffeners; Splice Plates and Fillers.

Section No. 235. Stiffeners of plate girders shall be faced on the ends and brought to a true contact bearing with the flange angles. Web splice plates and fillers under stiffeners shall be cut to fit within one-eighth ($1/8$) of an inch of flange angles.

Web Plate Projections.

Section No. 236. Web plates must not project beyond the flange angles or be more than one-quarter ($1/4$) inch back of face of angles.

Bed Plates Planed.

Section No. 237. Expansion bed plates shall be planed true and smooth. The finishing cut of the planing tool shall be fine and correspond with the direction of expansion.

Details Boxed.

Section No. 238. Nuts, bolts, rivets and other similar material shall be boxed.

Weight Marked.

Section No. 239. The scale weight shall be plainly marked upon every piece and box.

Inspection.

Section No. 240. Free access and information shall be given by the Contractor for a thorough inspection of material and workmanship.

Contractor Responsible.

Section No. 241. The Inspector shall make detailed reports of his inspection to the Engineer and may notify the Contractor of any defects in the material or workmanship, but all acceptances made by him shall be considered temporary, and his inspection shall in no way relieve the Contractor of full responsibility for the character and accuracy of the work.

Errors in Drawings.

Section No. 242. The Contractor shall be responsible for all errors which can be discovered by checking or examining the drawings.

Inspector's Office.

Section No. 243. The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

Loading and Shipping.

Section No. 244. All parts shall be carefully loaded and protected from injuries during transportation by such means as will be satisfactory to the Inspector. After delivery of materials at the work the Contractor will be required to store such materials on skids at least twelve (12) inches above the ground and to keep such materials in good condition. Any piece showing injurious effects of rough handling at any stage before the final acceptance of the work may be rejected.

Payments for Iron and Steel.

Section No. 245. Payment for steel will be made at the prices stipulated in Schedule Items 19, 20 and 21. Schedule Item 20 shall include all single beams or shapes, whether milled or otherwise, with or without connections or other end details. These prices shall include the cost of material delivered and erected in the work, of all necessary cleaning and painting (where painting is required) and of all other incidental work. The quantity of metal to be paid for shall be the weight actually placed in accordance with the drawings or orders. (See also Section No. 449.)

Miscellaneous Castings, Payments For.

Section No. 246. For other castings not included in the above and not including castings for sewer work or pipes, payment will be made at the price stipulated in Schedule Item 25, which price includes the cost of material delivered and erected in the work, also the cost of all necessary cleaning and painting (where painting is required) and of all other incidental work, labor and material.

Special Wire Forms.

Where Placed.

Section No. 247. Special wire forms, of a type and weight to be approved by the Engineer, are to be furnished and placed around the flanges of beams and girders which are to be completely encased in concrete, and at other places as may be required, in order to hold the concrete in place.

Wire Forms, Payment For.

Section No. 248. Special wire forms, wherever used, will be paid for as stipulated in Schedule Item 26, which price is to include the material in place and all work necessary and incidental thereto.

SUBDIVISION 16.

Painting.

Number of Coats and Quality.

Section No. 249. All metal work, excepting as otherwise herein provided, shall be painted with three (3) coats of paint, as follows: Shop coat, second coat and finishing coat.

The finishing coat will be a gray paint if adjacent to concrete, otherwise a black paint.

Inspection.

Section No. 250. Paint shall be subject to inspection at the place of manufacture and to such tests as may be ordered by the Engineer. The Engineer shall have access, at all times, to all places to inspect the methods of manufacture, and shall have liberty to inspect the daily laboratory records and analyses of all such paints as are subject to his inspection.

The Contractor shall furnish all facilities required for the proper inspection of the paint and its manufacture. All containers will be sealed by the Inspector at the time of inspection.

Proportions by Weight.

Section No. 251. All proportions mentioned in this specification are by weight, except when otherwise noted.

Formulae.

Section No. 252. The paint formulae are as follows:

Paint Formulae.

	Shop Coat.	Second Coat.	Finishing Coat.	
			Gray.	Black.
Pigment	500 lbs.	49%	57%	26%
Vehicle	16½ gal.	51%	43%	74%
Vehicle Formulae.				
Raw Linseed Oil	¾ by volume	90%	92%	92%
Boiled Linseed Oil	¾ by volume			
Drier		10%	8%	8%

Pigment Formulae.

	Shop Coat.	Second Coat.	Finishing Coat.	
			Gray.	Black.
Red Lead	100%	30%	....	25%
Red Iron Oxide	42%	....	....
Lampblack	5%	*	50%
Magnesium Silicate	10%	....	10%
Silica	13%	10%	15%
Sublimed White Lead	60%	....
White Zinc	30%	....

*Use sufficient lampblack to make standard shade. Weight.

The standard weight of second coat shall be 12 pounds 10 ounces per gallon. The standard weight of finishing coat (gray) shall be 14 pounds 6 ounces per gallon. The standard weight of finishing coat (black) shall be 9 pounds 5 ounces per gallon.

Preparation of Paint.

Section No. 253. The shop coat of paint shall be mixed, as needed, in such quantities as can be used before it thickens in the container. Any paint which settles and thickens before use shall be rejected and a new paint mixed.

The second and finishing coats shall be furnished in a ready mixed form and shall be used without the subsequent addition of any material.

Allowable Variation.

All paints must be properly prepared, using only the specified materials in the proportions stated, with an allowable variation therefrom of not over two (2) per centum in the quantity of any material therein. The paint must vary not more than four (4) ounces per gallon from the standard weight.

Raw Linseed Oil.

Section No. 254. Raw linseed oil shall conform to the specifications of the American Society for Testing Materials for the purity of raw linseed oil from North American seed, adopted August 25, 1913.

Boiled Linseed Oil.

Boiled linseed oil shall be made of pure linseed oil heated with lead and manganese salts and shall comply with the following requirements:

Specific gravity at 60 degrees F.	minimum	.934
Iodine value (Hanus)	minimum	175
Unsaponifiable matter	maximum	1.6%
Fatty acids	maximum	3%
Ash	maximum	0.4%
Moisture	maximum	0.5%
Flash point	minimum	527° F.
Bromine addition number	minimum	105
Bromine substitution number (30 min.)	maximum	5
Foots	maximum	1.25%

When boiled linseed oil is flowed over a plate of glass and allowed to drain in a vertical position, it must dry free from tackiness in fifteen (15) hours at 70 degrees F.

Drier.

The drier shall be a pure oil drier consisting of lead and manganese salts dissolved in linseed oil and thinned with turpentine as follows:

Manganese Dioxide.

15 pounds of manganese dioxide plus 10 pounds of varnish makers' red lead, to 50 gallons of oil, boiled to proper consistency and thinned with 50 gallons of turpentine.

Turpentine.

Turpentine shall conform to the proposed specification of the American Society for Testing Materials.

Red Lead for Shop Coat.

Section No. 255. Red lead for the shop coat shall be of the best quality, free from all adulteration and shall contain not less than 80 per cent. nor more than 90 per cent. "True red lead" (Pb₃O₄), not over 1 per cent. inert hearth materials (such as silica and alumina) and not more than 0.1 per cent. metallic lead; the remainder shall be pure lead monoxide (PbO). It must contain no organic coloring matter and when shaken up with water shall show no alkaline reaction. It shall be of such fineness that 99½ per cent. will pass through a standard 200 mesh sieve.

Red Lead for Second and Finishing Coats.

Red lead for the second and finishing coats shall be of the best quality, free from all adulteration and shall contain not less than 85 per cent. true red lead (Pb₃O₄), not over 1 per cent. inert hearth materials (such as silica and alumina) and not more than 0.1 per cent. metallic lead; the remainder shall be pure lead monoxide (PbO). It must contain no organic coloring matter and when shaken up with water shall show no alkaline reaction. It shall be of such fineness that 99½ per cent. will pass through a standard 200 mesh sieve.

Lampblack.

Dry lampblack must be absolutely neutral and contain at least 98 per cent. by weight, of pure carbon. The tinting power of lampblack used in the finishing coat must be the same as the standard sample.

Magnesium Silicate.

Magnesium silicate shall be a finely ground material of crystalline structure and shall equal the standard sample.

Silica.

Silica shall be ground from rock crystal and water floated. It shall be 99 per cent. pure silica (SiO₂) and shall be of such fineness that 99 per cent. shall pass through a standard 200 mesh sieve. It shall equal the standard sample.

Red Iron Oxide.

Red iron oxide shall contain at least 85 per cent. ferric oxide, the remainder to consist of silicates. The oxide shall contain no soluble sulphates, no free acids, shall give a neutral reaction and shall contain not over 0.1 per cent. sulphur in any form. It shall be free from grit and shall equal the standard sample in shade, quality and tinting power.

Sublimed White Lead.

Sublimed white lead shall be a true basic sulphate of lead containing not less than 15 per cent. combined lead monoxide (PbO), not over 5 per cent. zinc oxide (ZnO), and shall contain not more than .075 per cent. free sulphur dioxide (SO₂). Sublimed white lead shall equal in whiteness, fineness, body and covering qualities the standard sample.

White Zinc.

White zinc shall be "American process," and shall contain at least 98 per cent. by weight, oxide of zinc (ZnO), not more than 0.2 per cent. of sulphur in any form, nor more than .075 per cent. free sulphur dioxide (SO₂). White zinc shall equal in whiteness, fineness, body and covering qualities the standard sample.

Fineness Second and Finishing Coats.

Section No. 256. The paint for the second and finishing coats shall be so finely ground that it will pass each of the following tests:

(a) When a small amount is placed upon a piece of glass and the glass placed in a vertical position, there shall be no separation of the oil from the pigments for at least one (1) hour. This test is to be conducted at 70 degrees F.

(b) Fill a ½ inch test tube with pure raw linseed oil to a height of 3½ inches and add paint until the height of the oil is five (5) inches from the bottom. Cork, shake well and let stand in a vertical position for two (2) hours. The opaque mass

must not have settled down more than ¼ inch and there must be no separation of the coarser particles in the bottom of the test tube. This test is to be conducted at 70 degrees F.

(c) At least 98 per cent. of the extracted pigment shall pass through a standard No. 200 mesh sieve.

(d) When rubbed with a spatula on a piece of glass there shall be no feeling of grittiness.

Standard Sieve.

Section No. 257. By standard 200 mesh sieve is meant the 200 mesh sieve described in the specification of the American Society for Testing Materials for Portland Cement, adopted August 16, 1909.

Color.

Section No. 258. The shade of the gray finishing coat shall match the shade of the standard sample.

Drying.

The paint shall dry under normal conditions, dust free, in 12 hours, and so as to be satisfactorily recoated in not less than 24 nor more than 48 hours.

Water.

The amount of hygroscopic moisture in the finished paint shall not exceed ½ of 1 per cent.

Resin.

There shall be no resin in the paint as indicated by the Liebermann-Storch reaction.

Working Quality.

Section No. 259. The paint shall not liver nor curdle and must cover properly and work freely under the brush. The pigment shall remain in suspension in a satisfactory manner.

Tests.

Section No. 260. Tests will be made against standard samples. Such analyses as required will be made by the Engineer.

Distance.

Due to the cost of inspection, the Contractor will be required to obtain paint which is made within a reasonable distance from New York, and in as large quantities as practicable. By distance from New York is meant the distance by railroad of the paint factory from Manhattan Island. The maximum factory distance is shown in the following tables:

For quantities of less than 250 gallons made at one time,	25 Miles
For quantities of 250 to 500 gallons made at one time,	100 Miles
For quantities of 500 to 1500 gallons made at one time,	200 Miles
For quantities of over 1500 gallons made at one time,	700 Miles

Standard Samples.

Samples of standard ingredients and of the finished paints are on file in the office of the Engineer. Paints and their ingredients shall conform to these standard samples. The Contractor shall submit separate samples of all ingredients intended for use in the paints, and upon approval of same, shall then submit two one-pint samples of paint for approval.

In those details where no special instructions are given, the paint and its manufacture shall conform to the best accepted practice.

Original Packages.

All material for shop coat shall be delivered, inspected and sampled in their original packages.

Shop Coat.

Section No. 261. All iron shall be scraped free from scale and rust, and receive one coat of red lead paint as herein specified, before leaving the shop. All surfaces which come in contact or are enclosed shall be painted before being assembled. All turned or faced surfaces shall receive a coat of white lead and tallow before leaving the shops. If the Engineer so directs, the shop coat will be omitted, on members or parts of members to be buried in concrete.

Damaged Shop Coat to be Renewed.

Where the shop coat has become damaged before or after erection, through any cause whatever, it shall be renewed with the same kind of paint as originally used, such renewal to be considered only as a part of the original shop coat.

Structural Steel and Rods.

Structural steel and rods to be imbedded in concrete shall be protected from the weather before being put in place, and shall be cleaned and scale and rust removed before being incased in the concrete. Rods shall not be painted.

Field Painting.

After erection the metal shall be thoroughly cleaned of all dirt, rust or scale by stiff wire brushes or sand blast, as directed, and afterward dusted. The Engineer may require that all steel after cleaning shall be wiped with a cloth dipped in a mixture composed of one-half (½) benzine and one-half (½) turpentine. When the above mixture has practically dried off, but before becoming absolutely dry, the steel shall be thoroughly and evenly painted with the second coat prescribed herein. No paint shall be applied until the cleaning has been passed upon by an inspector.

Finishing Coat, When Applied.

The finishing coat shall be applied at such time after the application of the second coat and before final acceptance of the work, as in the judgment of the Engineer shall be advisable. All steel work adjacent to concrete, such as flanges of roof beams, exposed surfaces of wall columns, shall be painted with the gray finishing coat. All other steel work shall be painted with black finishing coat. The finishing coat will be applied between stations only; at stations a third coat will not be required under the contract.

Surfaces in Contact.

Section No. 262. Surfaces of exposed members inaccessible after erection, shall be cleaned and painted before erection.

Recesses, Etc.

All recesses that might contain water, or through which water could enter, must be filled with thick paint or a waterproof cement of ground skins before receiving a final painting.

Surfaces Close Together.

All surfaces so close together as to prevent the insertion of a brush must be painted thoroughly by using a piece of cloth, if necessary.

Workmanship.

Section No. 263. All paint shall be well brushed out so as to show a smooth, even film of uniform thickness. Round brushes shall be used exclusively in applying paint, except that the Engineer may permit the use of flat brushes on large, flat surfaces only.

Rainy or Freezing Weather.

Section No. 264. Painting in rainy or freezing weather or on wet or damp surfaces will not be permitted.

Payments.

Section No. 265. Payment for painting is included in the prices for steel and iron.

SUBDIVISION 17

Drains and Pumps.

Railroad to be Drained.

Section No. 266. Every part of the Railroad must, so far as possible, be so arranged that any water finding access thereto will be led away automatically to the City sewers.

Floor of Railroad as Conduit.

Section No. 267. Where the Railroad is on an inclined gradient, and is constructed in dry, porous soil, the floor of the Railroad may be depended on to act as a conduit. At the bottom of the inclined gradient connections must be made with a sewer or with sub-drains lying beneath the Railroad and draining into the sewers.

Sub-Drain.

Section No. 268. Along such parts of the work where the soil is not porous, or where the floor of the Railroad cannot, in the judgment of the Engineer, be used as a conduit, there shall be laid, beneath the rail level and on a continuous descending gradient, drain pipes of vitrified salt-glazed stoneware, of the quality described in these specifications for sewer pipe. These drain pipes shall be of such diameter not exceeding twelve (12) inches, as the Engineer may direct. Each drain shall be laid in the concrete or directly in the soil with tight or open joints, as directed, and in such manner and in such position as, in the opinion of the Engineer, local circumstances require.

Connections with Cross Drains.

Section No. 269. Where drain pipes connect with the City sewers, the junction shall be protected by suitable traps and back-pressure valves or gate valves where necessary, to prevent back rush of water or gas from the sewers. Connections with

the Railroad shall be as necessity demands, and all as directed by the Engineer. Cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct; also vertical drains at the sides of the Railroad. These drains shall be of vitrified pipe or of cast iron as directed.

Broken Stone for Drainage.

Section No. 270. Broken stone shall be placed for the purposes of drainage as indicated on the plans or as required by the Engineer.

Sumps.

Section No. 271. At the low points of the grade of the Railroad where the same passes below the bottom of adjacent sewers there shall be constructed sumps connected with the subdrains or the floor of the Railroad. Such sumps must be watertight, with a capacity of not less than eight hundred (800) gallons each.

Pumps.

Section No. 272. Adjacent to each sump a suitable enclosure shall be provided in which two pumps shall be installed, each of which shall have ample capacity to remove all the water entering the sump at that point under ordinary conditions. These pumps shall be arranged to operate automatically. Under this contract the Contractor will furnish only the pumps required and set them in place as directed, including the necessary pipe and drainage connections between the sumps and sewers.

Capacity.

Section No. 273. If in the opinion of the Engineer the service requires it, each of these pumps shall be able to remove from the sump eight hundred gallons per minute.

Discharge to Sewers, Etc.

Section No. 274. The discharge of such pumps shall be into the City sewers, and all piping, valves, etc., in connection therewith shall be installed as a part of this contract.

Payment for Drains.

Section No. 275. All drains shall be measured in place and the actual net length as laid for each class of drain will be paid for as herein provided in Schedule Items 17 and 17-A. The prices therein provided for each class of pipe will include providing and laying the pipe and all specials of any nature whatsoever, such as bends, tees, wyes, hand-holes, etc., and all material necessary for jointing the same. Where back-pressure valves or gate-valves are required the cost of setting the same will be included in the above, but the Contractor will be paid in addition the actual net cost of such valves plus ten (10) per cent.

Payment for Broken Stone.

Section No. 276. For broken stone for drainage, furnished and placed, Section No. 270, payment will be made as provided in Schedule Item 14.

Payment for Pumps.

Section No. 277. For pumps, Section No. 272, including the pipe connections with sumps and sewers, the Contractor will be paid as provided in Article XII.

Station Drainage.

The station drainage also must be arranged for as prescribed in Section No. 269.

Soil Pipes.

It will be necessary to lay soil pipes in the floors and walls of the stations. These pipes are to be cast iron, "extra heavy." They will be placed in positions as shown on the plans and will be paid for as provided in Schedule Item 34.

SUBDIVISION 18.

Sewers.

In Accordance With Plans and Specifications.

Section No. 278. All sewers and appurtenances shall be built of the materials, of the sizes and dimensions, on the lines and grades, at the depths, with the connections, and in the manner called for by these specifications and shown on the drawings.

Change of Location.

Section No. 279. If, in the opinion of the Engineer, it is impracticable during the progress of the work to construct any sewers, manholes, or other appurtenances, according to the contract drawings, owing to the presence of unknown subsurface structures or other contingencies, the Contractor shall construct such sewers, manholes or appurtenances in the location given by and according to the directions of the Engineer.

General Clauses Apply.

Section No. 280. The general clauses in this contract relating to excavation, backfilling, cement, mortar, masonry, waterproofing, piling, timber work of all kinds, care of streets and public places, maintenance of surface, subsurface and overhead structures, protection of persons and property, repaving or restoring of the surface of the street or other public places, responsibility of the Contractor, authority of the Engineer to examine and condemn materials, and the power of the Commission and the Engineer in all or any other respects to enforce this contract, apply to the construction and reconstruction of sewers, both along the route occupied by the Railroad and elsewhere, except as herein otherwise expressly provided.

No Claims for Damages.

Section No. 281. Should postponement or delay be occasioned by the precedence of paying or other contracts, which may be either let or executed by the Borough President, Commissioner of Water Supply, Gas and Electricity, or other heads of departments, either before or after the execution of this contract, on the line of the work, no claims for damages therefor shall be made or allowed; nor shall any claim for damages be made or allowed in consequence of the street or the sewers not being in the condition contemplated by the parties at the time of making this contract.

Size of Trenches.

Section No. 282. The trenches for sewers and basin culverts both in earth and in rock, in streets off the route of the Railroad, shall have vertical sides and shall be six inches wider on each side than the greatest external width of the sewer, but shall not be less than three feet in width.

In streets along the route of the Railroad the trenches shall be six inches wider than the greatest external width of the sewer or its foundation, on the side farthest away from the subway, but in no case will a width be allowed greater than that specified for sewers off the line of the Railroad. Trenches shall be excavated to the depth and to the form of the sewer or its foundation. Payments for excavation will be based on the requirements as above.

The sewer extending across Park Avenue underneath the Railroad on the line of East 41st Street will be deemed to be excavated by tunneling. (See Section No. 356.)

Limit of Trench Opening.

Section No. 283. Not more than one hundred (100) feet of trench in sewers off the line of the Railroad shall be opened at any one time in advance of the sewer already completed, unless by permission of the Engineer and then only for such distance as he shall specify.

Excavation Completed in Advance.

Section No. 284. The excavation of trenches shall be fully completed a sufficient distance in advance of the laying of the sewer, and the exposed end of the sewer shall in all cases be fully protected.

Trenches for Manholes and Receiving Basins.

Section No. 285. Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin, the excavation required in earth shall be to the lines of the smallest rectangle enclosing the full dimensions of the exterior of the foundation, and shall have vertical sides to the surface, but it shall, in all cases, be six (6) inches larger than the greatest external dimension of the manhole or receiving basin. In rock excavation, the trench shall be six (6) inches larger than the greatest external dimension of the manhole or receiving basin, and shall have vertical sides to the surface.

Foundations.

Section No. 286. Where the ground does not afford a sufficiently solid foundation, the trench shall be excavated to such increased depth as the Engineer may deem necessary, and this extra depth, and all other irregularities in the bottom of the trench, shall be filled up to the required level and form, with such material, and in such manner, as the Engineer shall direct. If so directed, piles shall be driven and a timber or reinforced concrete foundation shall be constructed, as elsewhere provided in these specifications, to support the sewer.

Testing of Grades.

Section No. 287. When the trench is properly prepared, and before laying any sewer, the Contractor shall notify the Engineer, who will, thereupon, cause the grades for the sewer to be tested, and if correct the sewer shall then be laid in the presence of a duly authorized Inspector, and no construction work shall be done in his absence.

Trenches to be Kept Free from Water.

Section No. 288. The trenches shall be kept entirely free from water while the foundation and the masonry are being constructed or the sewer laid. In no case shall water be allowed to flow over the invert or foundation or through the sewer until the mortar is thoroughly set.

Gutters and Passageways to be Kept Open.

Section No. 289. At all times, gutters shall be kept open for surface drainage, and the streets and sidewalks shall be kept clear and free for the passage of carts, wagons, carriages and street railroad cars or pedestrians, and as otherwise provided in these specifications.

Crosswalk, Sidewalk and Roadway to be Kept Clear.

Section No. 290. Where any crosswalk or roadway is cut by the trench, it shall be temporarily replaced by a timber bridge with side railings, according to the direction and approval of the Engineer. The work shall at all times be conducted so as to cause as little inconvenience as practicable to the public.

Disposition of Paving Material.

Section No. 291. All curb, gutter, flagging, paving and macadam stones, necessary to be removed, which in the judgment of the Engineer are suitable to be used again, shall be stored in such places as the Engineer shall direct, or shall be removed as provided in these specifications; in all cases a passageway on the sidewalks and in the roadway shall be preserved free from needless obstructions.

Flow of Sewers to be Maintained.

Section No. 292. The Contractor shall provide for the flow of all sewers, drains and water-courses interrupted during the progress of the work, and shall restore and make good all connections, and shall immediately cart away all offensive matter, in such manner and with such precautions as the Engineer may direct. All temporary house connections shall be made by closed iron pipes, with suitable provision for preventing leakage at joints. Wooden troughs for such connections will not be permitted.

Quality of Brick for Sewers.

Section No. 293. In the construction of brick masonry none but the best quality of common brick burned hard entirely through, regular and uniform in shape and size and of compact texture, shall be used. They shall be culled as they are brought on the ground, and bats and bricks of improper quality are to be removed from the work. A limited number of bats may be used in manholes and closures, and in the outer ring of the sewers where more than two (2) rings of bricks are required.

How Laid.

Section No. 294. The bricks shall be properly wet immediately before laying. Every brick is required to be laid in a full joint of mortar, made as described in these specifications, on its bed, end and side, at one operation. In no case is mortar to be slushed or grouted in afterward. The bricks shall be neatly and truly laid, every second course to line, and the joints to be carefully struck on the inside.

Racked Back or Toothing.

Section No. 295. All brick work, as it progresses, shall be racked back in courses, and in no case will it be allowed to be toothing, unless by special permission from the Engineer.

Brick or Stone Inverts.

Section No. 296. All inverts, or bottom curves, shall be formed from profiles accurately made according to the dimensions of the sewer, and correctly set according to the grades furnished. The masonry shall be allowed to set for twenty-four (24) hours before the arch is turned. Vitrified brick or granite paving blocks shall be used for the inner ring of the invert when required by the Engineer, and whenever so used they must be thoroughly jointed, so as to be water-tight along the inner surface of the sewer. The last course of the invert masonry below the springing line shall be laid as headers.

Brick Arches.

Section No. 297. The arches or upper curves shall be formed on strong centers of correct form, according to the sizes and shapes required, and keyed with stretchers in full joints of mortar. The extrados of the arch shall be plastered with mortar one (1) inch thick, mixed in the proportion of one (1) part of cement to two (2) parts of sand. The centers shall not be removed or withdrawn in less than thirty-six (36) hours, or until the work is thoroughly set, and until the filling in of the arch is properly put into place to a depth which is at least one (1) foot above the crown of the arch. The centers in all cases shall be struck and not drawn, so as not to crack or injure the work. Should any crack or settlement appear in the arch after the centers are removed, so much of the work as the Engineer may require shall be taken down immediately and replaced.

Spurs.

Section No. 298. Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and of a size required by the Engineer, but not less than six (6) inches interior diameter with hubs moulded for house connections, and of sufficient length to project at least four inches beyond the exterior of the sewer, shall be built into the walls of brick sewers and at such an angle as indicated on the plan, or as the Engineer may direct.

How Built In.

Section No. 299. Spurs shall be built in wherever similar house connections exist in the present sewer which is to be reconstructed under this contract, but in no case shall the distance be more than twenty feet between spurs. In the case of the construction of new sewers where no sewers existed previously, except sewers crossing intersecting streets, they shall be built opposite each house, and where there are no houses, they shall be not more than fifteen feet apart on each side of the sewer or at such frequent intervals as local conditions may require. They shall be set so that their inner ends shall be flush with the inner face of the sewer, at such height in the walls as the Engineer may direct, and each pipe shall be sealed on the outside with an approved earthen-ware cover set in mortar.

Iron Chair Spurs.

Section No. 300. Where the sewers to be built under this contract will be at a depth greater than thirteen feet below the established grade of the street (or below the surface of the street where final grades have not been established), cast iron chair spurs, of the design shown on the drawings, not less than six inches in diameter and of the weight of extra heavy soil pipe, shall be used unless otherwise ordered by the Engineer. Where house drains are to be connected to these spurs, extra heavy soil pipe and fittings shall be used for the riser between the spur and the house drain. Where spurs are provided for future connections, risers of extra heavy soil pipe shall be placed in each spur and shall be brought to a point thirteen feet below the established grade of the street, the end of which shall be sealed with an approved cover laid in cement mortar. The joints of this pipe shall be packed, leaded and caulked in accordance with these specifications for laying water-mains.

Under Another Structure.

Section No. 301. Wherever the sewer passes under another structure extra heavy soil pipe shall be laid from the spur to the outside of such structure, brought up to a point thirteen (13) feet below the established grade of the street, caulked and sealed as provided above. All pipes passing under such structure shall be laid in concrete.

Concrete May be Substituted for Brick.

Section No. 302. If, during the construction of the sewers, it is deemed advisable to interchange concrete and brick, the Contractor may, with the approval of the Engineer, build such sewers of either kind and quality herein specified.

Steel Bars Used if Ordered.

Section No. 303. Concrete sewers shall be reinforced with steel bars, if so indicated on the plans or directed by the Engineer.

Profiles and Inverted Centres for Inverts.

Section No. 304. Proper profiles for the concrete inverts shall be set up at the required distances, and the concrete for the bottom and invert of the sewer shall be deposited in place and rammed and worked down to the required shape. The concrete for the bottom and invert, if so directed, shall be placed in alternate lengths extending between every other pair of profiles, so that opportunity may be given to properly work the concrete in place.

Invert to be Protected.

Section No. 305. The concrete of the invert shall be protected during the progress of the work with planking, or by such other suitable methods as the Engineer shall direct and for so long a time as he may require.

Forms, Molds, etc.

Section No. 306. Suitable forms or molds, of the size and design to be approved by the Engineer, shall be provided by the Contractor to support the concrete of the side walls and roof while the same is being rammed into the permanent work.

Defective Work.

Section No. 307. If any irregular or defective work is discovered upon removing the forms or moulds, such work shall be cut out and the space, also any void spaces, filled with a rich concrete or mortar mixed in such proportions and of such materials as are provided elsewhere in these specifications.

Joints.

Section No. 308. No joints between different sections of the walls of a sewer shall, in any case, be a straight line, but shall always be stepped or toothed, so as to give a broken joint in the manner to be approved by the Engineer.

Spur Pipes, Branches, etc.

Section No. 309. In so far as they will be applicable to sewers constructed of concrete, the provisions and requirements for spurs, branches, etc., in brick sewers shall be understood to govern in such construction.

Vitrified Pipe Sewers—Quality of Pipe.

Section No. 310. Tile pipe sewers shall be built of vitrified, salt glazed stone-ware pipe, with extra deep and wide sockets and corrugated spigot ends. The pipe shall be of the best quality, thoroughly and perfectly burnt, without warps, cracks or imperfections, well and smoothly glazed over the entire inner and outer surfaces and perfect in shape. The pipe shall be subject to all tests ordered in conformity with any requirements of the Bureau of Sewers of the Borough in which the work is located, at any time previous to its being used.

Dimensions.

Section No. 311. The size of the pipes shall be designated by their interior diameters. Each pipe shall be a true cylinder, and of even thickness throughout, and shall conform to the following scheduled dimensions:

Double Strength Tile Pipe; Extra Deep and Wide Sockets.

Diameter.	Thickness of Shell	Depth of Socket.	Length of Plain Straight Pipe.	Weight of Pipe Per Foot.	Annular Space.
Inches.	Inches.	Inches.	Feet.	Pounds.	Inches.
6	$\frac{5}{8}$	$2\frac{1}{2}$	2	16	$\frac{5}{8}$
8	$\frac{3}{4}$	$2\frac{3}{4}$	3	25	$\frac{5}{8}$
10	$\frac{7}{8}$	$2\frac{3}{4}$	3	37	$\frac{5}{8}$
12	1	3	3	45	$\frac{5}{8}$
15	$1\frac{1}{4}$	3	3	75	$\frac{5}{8}$
18	$1\frac{1}{2}$	$3\frac{1}{4}$	3	118	$\frac{5}{8}$
20	$1\frac{3}{4}$	$3\frac{1}{2}$	3	148	$\frac{5}{8}$
22	$1\frac{7}{8}$	$3\frac{3}{4}$	3	157	$\frac{5}{8}$
24	2	4	3	190	$\frac{5}{8}$

"Specials."

Section No. 312. All "special" vitrified pipe shall conform to the dimensions given for plain straight pipe.

Spur Pipes.

Section No. 313. Pipes having spurs not less than six inches in diameter with hubs molded thereon for house connections shall be furnished and laid at such points as indicated on the plan or as directed by the Engineer, and when not immediately used, they shall be sealed on the outside with approved vitrified earthen-ware covers set in mortar.

Risers.

Section No. 314. The provisions for risers on brick sewers shall also apply to pipe sewers.

Pipe Sewers, How Laid.

Section No. 315. All pipes shall be laid in concrete cradles of the required form and dimensions. The minimum thickness of concrete under the outside of the shell, or barrel, shall be six (6) inches. The first layer of concrete shall be for the full width of the cradle, and deposited continuously to the height of the outside bottom of the shell of the pipe; before the concrete has set the pipe shall be firmly bedded therein true to line and grade and the remainder of the concrete immediately deposited and carefully tamped in such a manner as to avoid disturbing the sewer. The ends of the pipes shall abut against each other and in such manner that there shall be no shoulder or unevenness of any kind along the bottom half of the sewer on the inside. Unless otherwise ordered, not less than fifteen feet of pipe shall be laid at any one time, in any one length of trench, and it shall be exposed for at least twenty-four hours for inspection.

Joining Hub and Spigot Pipes.

Section No. 316. Before inserting the spigot end of the pipe into the hub or socket, the lower half of each socket shall be plastered on the inside with a layer of cement mortar mixed in the proportion of one part of cement to $1\frac{1}{2}$ parts of sand and of a sufficient thickness to bring the inverts of the abutting pipes flush and even with the established flow line. After pipes are fitted, the space between the inside of the upper half of each socket and the outside of the entering pipe shall be filled with cement mortar, mixed as above specified, and the outside of the joint shall be thoroughly sealed with the same kind of mortar and the joints carefully wiped to a smooth level outside, and all mortar that may be left on the inside of the pipe must be thoroughly removed and the inside of the pipe left clean and smooth throughout.

Pipes to be Cut.

The ends of pipes, which enter masonry, shall be neatly cut to fit the face of the masonry. When directed, such cutting shall be done before the pipes are built in.

Iron Pipe Sewers.

Section No. 317. Sewers of iron pipe, of the quality and laid in the manner described elsewhere in these specifications for the laying of water mains, shall be laid wherever indicated on the plans or at such places as the Engineer shall direct.

Special Castings.

Section No. 318. Wherever such pipes are laid through vaults they shall, when required by the Engineer, be provided with special castings for manholes, which shall be fitted with a cover bolted on so as to make an air-tight joint, according to the plans to be furnished by the Engineer.

Ventilators.

Section No. 319. Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under other structures, iron pipe shall be laid from the sewer to the surface of the street and fitted with proper gratings according to the plans to be furnished by the Engineer.

Connections.

Section No. 320. All existing sewers, culverts, drains and house connections intercepted by the proposed sewers, culverts or receiving basins shall be connected with the new work by proper curves and grades and in such manner as the Engineer shall direct; and all drains, basins or culverts rendered unnecessary or becoming disused by the work herein contemplated shall be filled in and made solid with good whole-some earth in the manner directed. Provision shall also be made for the connection of future sewers or basins by constructing brick spurs or inserting vitrified pipe at the points indicated on the contract drawings and at other points as the Engineer may direct. These connections shall be closed with bulkheads not less than eight inches in thickness and of the quality specified for brick masonry.

Fresh Work to be Protected.

Section No. 321. All fresh work shall be carefully protected from injury in every way. No wheeling or walking will be allowed on it and any portion injured must be relaid by the Contractor; no walking or working over the pipes after they are laid, except as may be necessary in tamping the earth and backfilling, will be allowed until there is at least two and one-half feet of earth over them.

Pipes to be Kept Clean.

Section No. 322. The interior of pipe sewers shall be carefully freed from all dirt, cement and superfluous material of every description as the work progresses, for which purpose a disc, mold or plate, attached to a rod sufficiently long to pass two joints from the end of the pipe last laid, shall be continuously worked through.

Exposed Ends of Pipes to be Protected.

Section No. 323. The exposed ends of pipe sewers shall, in all cases, be protected with a board or other stopper carefully fitted to the pipe, to prevent earth or other substances from washing in, and in no case shall brick or stone be used for that purpose.

Manholes.

Section No. 324. The masonry of manholes shall be carried up so that the top of the iron head when set shall be at the level of the established grade of the street at that point or to such height as the Engineer may direct, and from templates correctly made

and set at top and bottom, between which not less than eight lines shall be drawn. Where manholes are not built to the established grade of the street, they shall be covered, when necessary, by selected bluestone slabs eight inches in thickness, to support the manhole heads. All joints shall be neatly struck and pointed on the inside. Each manhole shall be plastered thoroughly on the outside with cement mortar one inch in thickness, mixed in the proportion of one part of cement to two parts of sand.

Foundations.

Section No. 325. The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans and shall be not less than twelve inches below the invert elevation of the sewer, except as otherwise indicated on the plan. When foundation additional to that indicated on the plan is required, it shall be built as directed by the Engineer.

Pipe Connections.

Section No. 326. Sewer pipes shall be built in and trimmed, when necessary, so as to be flush with the inner face of the manhole, and an arch, laid in cement mortar, shall be turned over the pipe.

Vitrified Bricks or Granite Blocks.

Section No. 327. The invert shall be built of vitrified brick, granite paving blocks or concrete masonry, as indicated on the contract drawings.

Use of Bats.

Section No. 328. A reasonable number of bats not smaller than half bricks may be used in the construction of manholes or receiving basins, provided all interstices are thoroughly filled with mortar.

Steps.

Section No. 329. Standard steps of good quality of galvanized wrought iron, of the size, length and shape required for steps, shall be built into the interior sides of all manholes at a distance apart of not more than fifteen (15) inches vertically and they shall be so arranged that the lowest step shall be not more than two feet above the bench at the bottom of the manholes nor more than two feet above the invert of the sewer where there is no bench. Each manhole head shall be cast with a wrought iron step on the inside, when directed by the Engineer.

Bluestone.

Section No. 330. Hammer-dressed bluestone shall be furnished and laid of the form and thickness required as indicated on the plans or as otherwise directed.

Manhole Head and Cover.

Section No. 331. A cast-iron manhole head and cover of the quality specified for cast-iron, and except in special cases, of the pattern adopted by the President of the Borough in which the work is located, and in dimensions, weight and all other respects satisfactory to the Engineer shall be fitted on a bed of mortar to each of the above described manholes. Manhole heads and covers which do not conform to these specifications shall be removed at once from the work.

Perforations.

Section No. 332. Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tight-fitting without perforations.

Weights.

Section No. 333. Each manhole head and cover shall have its weight distinctly marked upon it with oil paint. The following shall be allowed as the minimum and maximum weights:

Street manhole head, 475 to 500 pounds.

Street manhole cover, 135 to 150 pounds.

Sidewalk manhole head, 300 to 310 pounds.

Sidewalk manhole cover, 100 to 110 pounds.

Noiseless Heads and Covers.

Section No. 334. When the pavement of the street is asphalt or wooden block, the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer, where new heads and covers are necessary.

Sealed Heads in Vaults.

Section No. 335. All manholes in vaults or other structures shall be provided with sealed manhole heads and covers according to the design indicated on the plans.

Emergency Manholes.

Section No. 336. Where a sewer crosses under the railroad, emergency manholes shall be provided when directed by the Engineer and according to plans to be furnished by him.

Manholes to be Completed.

Section No. 337. Manholes shall in all cases be fully and completely built and fitted with their covers as the work progresses, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Section No. 338. Receiving basins shall be built as located on the plans or as the Engineer shall direct and in accordance with the plans to be furnished. Each portion of the basin shall be built of the size and materials designated on said drawings and shall be thoroughly plastered, both inside and outside, with cement mortar in the proportion of one part of cement to two parts of sand.

Foundations.

Section No. 339. The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans and shall extend not less than twelve inches below the finished floor of the basin, except as otherwise indicated on the plans. When additional foundation is required, it shall be built as directed by the Engineer.

Stone Flooring.

Section No. 340. The flooring shall be of hammer-dressed North River bluestone flagging, not less than three inches thick, in not more than two pieces, and shall be well set in a full bed of mortar and rammed into place. The floor may be finished with cement mortar mixed in the proportion of one part of cement to one part of sand, if so directed by the Engineer. The mortar shall be spread, while fresh, upon the concrete base and before the latter shall have reached its first set; it shall be in such quantity that after thorough manipulation it shall be one inch in thickness.

Head Stone and Gutter Stone.

Section No. 341. Where head stone and gutter stone are required they shall be of sound, durable granite of the dimensions indicated on the plan, hammer dressed to an even surface and cut to the satisfaction of the Engineer. Cast-iron basin heads and gutter pieces of the design indicated on the plans shall be set instead of the above when required.

Cast-iron Cover.

Section No. 342. A cast-iron cover of approved pattern weighing not less than eighty nor more than ninety-five pounds shall be fitted to the opening in the head stone.

Grate Bar.

Section No. 343. A grate bar made according to the plan shall be fastened solidly into the said head stone in the manner indicated.

Cast-iron Trap.

Section No. 344. A cast-iron trap of the form and dimensions indicated on the plan free from imperfections, and properly coated with coal-tar pitch varnish shall be furnished and built into place, as directed by the Engineer.

Joints.

Section No. 345. The joints shall be tightly fitted with an oakum gasket or with cement mortar if so directed.

Iron Steps.

Section No. 346. Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

Section No. 347. The culvert pipe for connections with sewers shall be 12-inch vitrified pipe unless otherwise indicated on the plan, and of the kind and quality previously described, and shall be laid, in all cases, in a concrete cradle of the form and dimensions required for pipe sewers, in accordance with the directions of the Engineer. In case it becomes necessary to connect any basin already built with the work to be constructed, so much of such culverts as in the opinion of the Engineer may be necessary shall be taken up and rebuilt or relaid with vitrified pipe, or brick, as the case may be, in the manner described above, and reconnected in a straight line from the basin to the sewer.

Flush Tanks.

Section No. 348. Automatic flush tanks of a type approved by the Engineer shall be built where indicated on the plans or where directed by the Engineer.

Waterproofing.

Section No. 349. Whenever, in the opinion of the Engineer, it is necessary to waterproof a sewer, chamber or receiving basin, or their appurtenances, it shall be

done as indicated on the plans or as directed by the Engineer and in the manner described elsewhere in these specifications.

Mortar.

Section No. 350. All masonry shall be laid in Portland cement mortar of the quality described in these specifications. It shall be mixed in the proportion of one (1) part of cement to two (2) parts of sand, excepting as otherwise specially provided.

Concrete.

Section No. 351. All concrete for sewers shall be made in the proportion of one (1) part of cement to two (2) parts of sand and four (4) parts of stone of the quality described in Subdivision 11.

Paving.

Section No. 352. On the completion of each section of one hundred feet of sewer, the sidewalks and roadways shall be restored as provided under Subdivision 22.

Permits for Connections.

Section No. 353. The Commissioner of Public Works shall have the right to connect any sewer or sewers with the sewers herein described or to grant permits to any person or persons to make connections therewith at any time before it is finally completed, and the Contractor shall not interfere with or place obstructions in the way of such person or persons as may be employed in building such new sewer or sewers or in making such connections. This is not to be construed, however, as permitting the introduction of storm water or sewage into any sewer being constructed under this contract before its final completion.

Thoroughly Cleaned During Progress of Work.

Section No. 354. During the progress of the work, and until the entire completion and final acceptance thereof, the sewers, drains, basins, culverts and connections shall be kept thoroughly cleaned throughout, and left clean, and the drainage of any old sewer that may be taken up or intercepted shall be provided for and taken care of by the Contractor, all at his own expense.

Payment for Sewers.

Section No. 355. Payment for sewers will be made for sewer complete at the prices stipulated in Schedule Items 37, 38, 39, 41, 52, 53, 56, 59 and 60, except as is hereinafter specifically provided in Section No. 361 with respect to cast-iron pipe sewers and other sewer construction for which no prices are provided in the Schedule of Unit Prices in this contract on a lineal foot basis. The price for each class of sewer as stipulated in Schedule Item 37, 38, 39, 41, 52, 53, 56, 59 or 60 is per lineal foot of sewer complete and includes compensation for all the work, labor and material applicable thereto as herein given in Sections Nos. 278 to 354, inclusive, and as otherwise provided in this contract and as indicated on the drawings, except as is hereinafter specifically provided in Sections Nos. 356, 357, 358 and 359.

Payment for Excavation and Surface Restored.

Section No. 356. In addition to the price for completed sewer, as above provided, excavation will be paid for at the prices herein stipulated in Schedule Items 2-A and 3-A (which prices shall include compensation for all the matters referred to in Section No. 92), on the basis of size of trench stipulated in Sections Nos. 282 and 285, except where the sewer is built by tunneling, in which case tunnel excavation will be paid for at the price stipulated in Schedule Item 5-A (which price shall include all the matters referred to in Section No. 445), measurement being made to the pay lines as shown on contract drawing No. B-326. Payment for street surface restored shall be made at the prices stipulated in Schedule Item 30.

Payments for Steel Beams and Reinforcing Rods.

Section No. 357. Where steel beams or reinforcing rods are required and ordered, such beams and rods will be paid for, in addition to the price stipulated for the sewer, at the price stipulated for furnishing and placing such material and all work incidental thereto in Schedule Item 20 or 21.

Payment for Flush Tanks.

Section No. 358. Where automatic flush tanks are built as provided in Section No. 348 they will be paid for as herein provided in Article XII.

Payment for Waterproofing.

Section No. 359. Where waterproofing is required and placed in accordance with Section No. 349 it will be paid for at the prices stipulated therefor in Schedule Item 15 or 16.

Cast-iron Pipe Sewers, etc.

Section No. 361. All cast-iron pipe sewers wherever built and all other sewer construction for which no prices are provided in the Schedule of Unit Prices in this contract on a lineal foot basis will be paid for at the prices stipulated in the Schedule of Unit Prices for the various classes of work and materials entering into the construction of such cast-iron pipe sewers or of such other sewer construction.

Payment for Pipe.

Payment for cast-iron sewer pipe used in the construction of cast-iron pipe sewers will be made under Schedule Items 42 and 43.

Payment for Cast-iron Furnishings.

For all manholes or receiving basins constructed in connection with cast-iron pipe sewers or other sewers for which no prices are provided in the Schedule of Unit Prices in this contract on a lineal foot basis, the cast-iron, wrought-iron or steel furnishings (except pipes) will be paid for at the price stipulated in Schedule Item 25-C, which item, however, is applicable only to the class of work covered by this section.

Payment for Sluice Gates.

Eighteen-inch standard iron sluice gates will be paid for at the price stipulated in Schedule Item 74-D.

Payment for Soil Pipes.

All extra heavy soil pipe for drains and connections made necessary by the construction of cast-iron pipe sewers or other sewer construction for which no prices are provided in the Schedule of Unit Prices in this contract on a lineal foot basis will be paid for at the price stipulated in Schedule Item 17-A.

House and Drainage Connections.

Section No. 362. Compensation for maintaining, supporting or constructing all house or other drainage connections made necessary by the construction of cast-iron pipe sewers or other sewer construction for which no prices are provided in the Schedule of Unit Prices in this contract on a lineal foot basis is included in the prices stipulated in the Schedule for the several classes of work and material entering into the construction of such cast-iron pipe sewers and of such other sewer construction.

Sewers Under Station Platforms.

Wherever a sewer passes under a station or station platform, all the requirements with respect to extra heavy soil pipe, special manhole castings, ventilating pipes, and sealed manhole covers, as included in Sections Nos. 301, 318, 319 and 335, respectively, apply in every respect.

SUBDIVISION 19.

Requirements for Pipes.

General.

Section No. 363. Whenever it is necessary to relay any water main, all new material required for the same shall be of the quality and laid in the manner specified below, and subject to the various clauses of these specifications applicable thereto.

Pipes to be Cylinders.

Section No. 364. The pipes shall be circular cylinders, with the inner and outer surfaces concentric, and of the full interior diameter required.

Hubs and Spigots.

Section No. 365. The hub or socket and the spigot end shall be shaped in exact conformity with the standards of the Department of Water Supply, to be furnished by the Commission, and will be tested by circular gauges.

Workmanship.

Section No. 366. The seat or shoulder of the socket and the end of the spigot shall be straight and even, and at right angles to the axis of the pipe, so as to make a smooth, tight joint. Special care will be required in making the sockets and spigots to conform to the drawings and all pipes will be rigorously inspected at these points. No pipe will be received whose eccentricity at either the spigot or socket ends, exceeds one-eighth ($\frac{1}{8}$) of an inch, or whose dimensions differ by more than one-eighth ($\frac{1}{8}$) of an inch from those required.

Interior Diameter.

Section No. 367. The pipes shall be designated by dimensions of the interior diameter.

Lugs, Etc.

Section No. 368. Bands, lugs, buttons, or ribs shall, if required, be cast on the pipes, of such forms and dimensions as the Engineer may direct.

Length of Pipe.

Section No. 369. The straight pipe shall be twelve (12) feet long, exclusive of hub; other pipe as may be directed.

Straightness.

Section No. 370. All straight pipes shall be straight in the direction of the axis of the cylinder.

Thickness and Weights.

Section No. 371. The thickness of the pipes, branches and special castings shall correspond with the standards of the Department of Water Supply. The weight for straight pipe, per twelve (12) foot length, shall be as follows:

60-inch pipes, special.
48-inch pipes, 9,886 pounds each.
42-inch pipes, special.
36-inch pipes, 5,920 pounds each.
30-inch pipes, 4,460 pounds each.
24-inch pipes, 2,965 pounds each.
20-inch pipes, 1,979 pounds each.
16-inch pipes, 1,458 pounds each.
12-inch pipes, 1,018 pounds each.
8-inch pipes, 542 pounds each.
6-inch pipes, 416 pounds each.

Weight of High Pressure Pipes.

Section No. 372. The weights for high-pressure fire system standard spigot and groove straight pipes, with lugs, shall be as follows, in pounds per length:

	Of 3 ft.	Of 4 ft.	Of 6 ft.	Of 12 ft.
8-inch.....	355	420	550	935
12-inch.....	615	745	1,000	1,765
16-inch.....	1,005	1,215	1,635	2,905
20-inch.....	1,475	1,795	2,425	4,320
24-inch.....	2,105	2,585	3,535	6,385

All requirements as to weights, laying, tests, etc., shall be in strict accordance with the standard requirements of the Department of Water Supply, Gas and Electricity.

To Be Calibered.

Section No. 373. The thickness of the metal of the pipes and special castings will be tested by calipers after the castings have been freed from sand and cleaned.

Variations in Thickness.

Section No. 374. No pipe will be received when the thickness of metal is less by more than one-twelfth ($\frac{1}{12}$) of an inch than the thickness required by the standards.

Variation in Weights.

Section No. 375. Any straight pipe the weight of which is deficient by more than the following stated percentages of the standard weight, will be rejected:

For pipe 16 inches or less in diameter, 5 per cent.

For pipe over 16 inches in diameter, 4 per cent.

Excess weight in any one pipe not to exceed the above stated percentages will be paid for. The total weight, however, to be paid for shall not exceed for each size of pipe received the sum of the standard weights of the same number of pieces of the given size, by more than two (2) per centum.

(The term "Standard Weight" as above used in connection with straight pipe shall be taken to mean the standard weight corresponding to the actual laying length of the pipe as furnished.)

Variation of Weight of Special Castings.

Any special casting the weight of which is deficient by more than the following stated percentages of the standard weight will be rejected:

For special castings 12 inches or less in diameter 10 per cent.

For special castings over 12 inches in diameter 8 per cent.

Excess weight in any one special casting, not to exceed the following stated percentages, will be paid for:

For special castings 12 inches or less in diameter 8 per cent.

For special castings over 12 inches in diameter 6 per cent.

The total weight, however, to be paid for shall not exceed for the special castings received the sum of the standard weights of the same number of special castings by more than five (5) per cent.

Straight Pipe; How Cast.

Section No. 376. All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

Finish.

Section No. 377. All the castings shall be made in such moulding-sand or loam as will leave the surface clean and smooth.

Marking.

Section No. 378. All the castings shall have cast on the outer side in raised letters of not less than two (2) inches in length and one-eighth ($\frac{1}{8}$) of an inch in relief, in such manner as the Engineer may designate, the year in which they are cast, the running number of the castings of the same size and form, the letters D. W. S., and the initials or name of the Contractor, and the foundry where cast, and in case any pipe shall be condemned, the letters D. W. S. shall be erased by the Contractor.

Quality of Cast-Iron.

Section No. 379. The metal of which the castings are to be cast (which shall be remelted in a cupola or air-furnace) shall be pig-iron, made without any admixture of cinder-iron, or other inferior metal, and shall be of such character as to make a pipe strong, tough and of an even grain, entirely free from uncombined carbon when seen under the microscope, and such as will bear, satisfactorily, drilling and cutting, and shall have a tensile strength of at least sixteen thousand (16,000) pounds to the square inch.

Imperfections.

Section No. 380. The castings shall be free from scoria, sand holes, air bubbles, and other defects and imperfections.

Castings To Be Clean.

Section No. 381. The castings shall be perfectly cleaned and no lumps shall be left on the inner surface of the barrels or sockets, or on the outer surface of the spigot end. The castings shall be subject to hammer inspection. Iron-wire brushes shall be used, as well as softer brushes, to remove the loose dust. No acid or other liquid shall be used in cleaning the castings.

Pipes To Be Coated.

Section No. 382. Every pipe, branch and special casting shall be carefully coated inside and out with coal-tar pitch and oil. Every casting shall likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned, the surface shall be oiled with linseed oil, to preserve it until it is ready to be dipped. No casting shall be dipped after rust has set in.

Pitch.

Section No. 383. The coal-tar pitch shall be made from coal-tar distilled until the naphtha is entirely removed and the material mixed with linseed oil so as to make a smooth, tough and tenacious coating. Pitch which becomes hard and brittle when cold will not answer for this use.

Temperature of Pitch.

Section No. 384. Pitch of the proper quality having been obtained, it shall be carefully heated in a suitable vessel to a temperature of three hundred (300) degrees Fahrenheit, and shall be maintained at not less than this temperature during the time of dipping. The material will thicken and deteriorate after a number of pipes have been dipped; fresh pitch shall, therefore, be frequently added, and occasionally the vessel shall be entirely emptied of its old contents and refilled with fresh pitch.

Temperature of Casting.

Section No. 385. Every casting shall attain a temperature of three hundred (300) degrees Fahrenheit before being removed from the vessel of hot pitch. It shall then be slowly removed and laid on skids to drip.

To Be Inspected Before Dipping.

Section No. 386. No casting shall be dipped until the authorized inspector has examined it as to cleaning and rust, and subjected it thoroughly to the hammer test. It may then be dipped, after which it will be passed to the hydraulic press to meet the required water test. The proper coating shall be tough and tenacious when cold on the pipes, and not brittle or with any tendency to scale off.

Tests.

Section No. 387. The castings must be capable of sustaining a pressure, in the hydraulic press, of three hundred (300) pounds to a square inch, and any casting which shows any defect by leaking, sweating or otherwise will be rejected. This test shall be made at the foundry, and at the expense of the Contractor.

Weighed and Marked.

SECTION No. 388. The castings shall be weighed, and the weight distinctly marked on the castings in white paint. The Contractor shall provide at the foundry where the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which shall be done at the expense of the Contractor, under the supervision of the inspector.

Blocking and Wedges.

SECTION No. 389. Each pipe over eight (8) inches inside diameter, unless otherwise ordered, shall be placed on two (2) blocks and four (4) wedges of hemlock timber, the wedges to rest on the blocks and the pipe on the wedges.

Timber for Blocking.

SECTION No. 390. The blocks and wedges shall be of sound hemlock timber; 48 and 36-inch pipe shall be laid on blocks 4 feet long, 12 inches wide and 6 inches thick, with wedges 18 inches long, 6 inches wide, 4 inches thick on one end and 1/2 inch thick on the other; 30 and 24-inch pipe on blocks 3 feet long, 10 inches wide and 5 inches thick, with wedges 15 inches long, 5 inches wide and 3/2 inches thick on one end and 1/2 inch thick on the other end; 12 and 20-inch pipe on blocks 2 feet long, 8 inches wide and 4 inches thick, with wedges 12 inches long, 4 inches wide, 3 inches thick on one end and 1/2 inch thick on the other.

Joints.

SECTION No. 391. The spigot end of the pipe shall be inserted into the hub to within from one-fourth (1/4) to one-eighth (1/8) of an inch of the full depth of the hub, and the space around the pipe shall be equalized so as to give as nearly as possible an equal space for the packing. The space between the pipe and hub shall be packed with clean, sound jute packing yarn, free from tar, far enough to leave the proper space for lead. The remaining space shall then be filled by running it full of lead to a depth of four (4) inches, with a bead outside of the face of the hub large enough to allow for caulking, so that when the joint is properly caulked the lead will be flush with the hub of the pipe. After the joint shall have been run with lead, it shall be caulked by means of proper tools, so as to make a water-tight joint.

Lead.

SECTION No. 392. The lead to be used shall be of the best quality of pure, soft lead, and in every respect suitable for the purpose.

Notice of Interruption To Be Given.

SECTION No. 393. In case it becomes necessary to cut any connection with any other main, house or hydrant, or in any way to interfere with the continuous and normal flow of water, due notice shall be sent at least forty-eight (48) hours in advance to the Engineer and to the Commissioner of Water Supply, and the Contractor shall, if so ordered, make a temporary by-pass or other arrangement to preserve the flow of water while breaking connections.

Connections Interfered With.

SECTION No. 394. All connections cut, interfered with or injured shall be restored under the directions of the Engineer, without delay, and in accordance with the rules and regulations of the Department of Water Supply governing such matters, to a suitable condition as good as existed before commencing work.

Stop Cocks, etc.

SECTION No. 395. Stop cocks, boxes, branches, curved pipe, and other specials according to the standards of the Department of Water Supply shall be set where necessary.

Specifications of Owners Apply.

SECTION No. 396. For gas pipes, air pipes, mail tubes and any other pipes not herein enumerated, the standard weights and all other requirements shall be in accordance with the standard specifications and requirements of the several owners of such structures.

SUBDIVISION 20.**Ducts.****Form of—Definition.**

SECTION No. 397. The ducts to contain cables for transmitting electricity shall generally be in the one way form with circular holes for Railroad ducts and of the four way form with circular holes for Tunnel ducts unless otherwise ordered by the Engineer.

Tunnel ducts are those incorporated in the Railroad structure. All other ducts for use in connection with the Railroad are termed Railroad ducts.

Dimensions.

SECTION No. 398. The dimensions and form of each piece shall conform to the following requirements:

Length of one way ducts shall be eighteen (18) inches and of four way ducts not less than twenty-four (24) inches nor more than thirty-six (36) inches, except that a sufficient number of short pieces of various lengths shall be furnished to lay on curves and to piece out at manholes so as to bring the ends of all ducts in a vertical plane.

The minimum inside diameter of holes shall be such as to pass a mandrel three and one-half (3 1/2) inches in diameter.

The outside dimensions of one way ducts shall be not less than five (5) inches nor more than five and one-quarter (5 1/4) inches measured at right angles to the flat of each side. The outside dimensions of four way ducts shall be not less than nine and three-quarters (9 3/4) inches nor more than ten (10) inches measured in the same way.

The outside and partition walls measured at the thinnest part shall be not less than five-eighths (5/8) of an inch for one way ducts, nor less than three-quarters (3/4) of an inch in thickness for four way ducts.

The ducts shall be made square on outer lines. One way ducts shall have the outside corners cut off to leave a flat surface of not less than two and three-fourths (2 3/4) inches, the ends to be cut smooth and at right angles to the axis of the duct and beveled on the inside for one-half (1/2) of an inch. Four-way ducts shall have the outside corners rounded to a radius of two and one-half (2 1/2) inches, the ends to be cut smooth and at right angles to the axis of the bore with each hole reamed to a depth of one-half (1/2) an inch with a taper of three-eighths (3/8) to one.

Four-way ducts shall have dowel holes of not less than three-eighths (3/8) nor more than seven-sixteenths (7/16) of an inch in diameter extending along the entire horizontal axis of the duct. These dowel holes shall be located at the intersection of the partition and side walls. At the intersections of the partition walls the hole shall be of such a size as to maintain the thickness of the duct walls.

Combings.

SECTION No. 399. One-way ducts shall be combed on each face with at least five (5) longitudinal combings, each combing to have a width of one-fourth (1/4) of an inch and a depth of not less than one-sixteenth (1/16) of an inch. Four-way ducts shall be combed on each face with seven (7) longitudinal combings, whose total width shall not exceed three and one-half (3 1/2) inches, each combing to have a width of one-fourth (1/4) of an inch and a depth of not more than one-sixteenth (1/16) of an inch.

Quality and Workmanship.

SECTION No. 400. All ducts shall be manufactured of the best clay, mixed thoroughly and in proper proportions, burnt hard through its entire thickness until well vitrified but in no case so burnt as to be fused and scoriated. The clay used shall be plastic and smooth, perfectly free from lime stone, lime pebbles, pyrites and chalk, and sufficiently fireproof to acquire proper density before vitrification takes place. The clay shall be well pulverized and made perfectly homogeneous, and the surface of each piece both inside and outside shall be thoroughly glazed in the most approved manner with good salt glaze. The ducts shall be sound and without soft spots, stones, gravel, cracks, breaks or blisters, and the interior surface shall be free from warts, tits, nodules, chips, breaks, rough spots or cracks, that in the opinion of the Engineer may prove injurious. Each duct shall be practically straight and under no circumstances will any piece be accepted which shall have a bow, curve or kink sufficient to prevent the passage of a mandrel three and one-half (3 1/2) inches in diameter and twenty-four (24) inches long. No piece will be accepted if it shall have a bow, bend or kink in more than one direction. Throughout its entire length the bore shall be straight, smooth and circular. The center of the bore shall be exactly in the center of one way ducts.

Inspection.

SECTION No. 401. All ducts to be subject to inspection, at the place of manufacture and on the work, and at any other time and place as may be required by the Engineer. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

SECTION No. 402. The ducts shall be laid in beds of cement mortar about one-quarter (1/4) of an inch in thickness, with broken joints, both horizontally and verti-

cally, true to line and grade, and so placed that there shall be no shoulders or offsets in the bore. All interstices shall be filled with mortar. In laying ducts care must be taken to close abutting joints so that the ends of all consecutive ducts shall be practically in contact on all sides.

Dowel Pins.

SECTION No. 403. Each piece of four way duct shall be supplied with at least two dowel pins placed in opposite sides. These dowel pins shall be of wrought iron three and one-half (3 1/2) inches long of circular cross-section five-sixteenths (5/16) of an inch in diameter. The surface shall be smooth, the ends tapered and at the middle of its length shall be cut a spur or feathering on one side which shall project sufficiently to prevent the dowel pin entering the dowel pin hole beyond such spur. The diameter of the dowel pin shall not be reduced more than one-sixteenth (1/16) inch to make the spur.

Wraps.

SECTION No. 404. Two (2) strips of thick unbleached muslin six (6) inches wide and coated with neat cement mortar, shall be used to wrap each joint, the ends of the wrap to lap four (4) inches. The muslin shall be not less than 56x60 count, weight not less than four (4) ounces to the yard and width thirty-six (36) inches. Where ducts are laid on curves, the wraps must be doubled if required, to protect the openings between the ends of the ducts on the outer line of the duct and to exclude all mortar from duct openings. Metal wraps will not be permitted.

Mandrels.

SECTION No. 405. Ducts shall be laid with a link mandrel of a length and diameter to be prescribed, which shall be drawn through each duct as it is laid, so as to remove all projections of mortar that may be in the ducts; the mandrel shall also be equipped with a suitable swab to remove all loose material in the ducts; the mandrel shall be left in each duct until the succeeding duct is laid.

To Be Rodded.

SECTION No. 406. After the duct bank has been completed and in the case of Railroad ducts, the trench, backfilled, the manholes built and heads set, and in the case of tunnel ducts, the railroad structure completed, the ducts shall be rodded by pushing a wooden mandrel through the bore. This mandrel shall be of approved design, three and one-quarter (3 1/4) inches in diameter, eight (8) inches long and screwed to the end of the rod. If obstructions are found in rodding the ducts which cannot be removed by cleaners, so as to give a clear and smooth opening sufficient to pass the above mandrel without damaging the duct, the duct shall be removed and relaid. All ducts during construction and after being rodded shall be plugged with suitable plugs to be furnished by the Contractor. If wooden plugs are used they shall be immersed in water at least eight hours before being put in place.

Payments.

SECTION No. 407. Railroad ducts shall be paid for per duct foot in place at the price herein stipulated for Railroad ducts, Schedule Item 18-A, and Tunnel ducts shall be paid for per duct foot in place at the price herein stipulated for Tunnel ducts, Schedule Item 18, which prices shall include the cost of furnishing, laying and rodding the ducts, of furnishing and placing the concrete envelope for the Railroad ducts and of all incidental work, labor and material not otherwise provided for. For Railroad ducts and Railroad duct manholes outside the net lines of the Railroad structure, excavation and restoration of street surface shall be paid for at the prices stipulated in Schedule Items 2-A and 3-A and Schedule Item 30; and changes of surface and subsurface structures made necessary because of physical interference with Railroad ducts or Railroad duct manholes shall be measured and paid for as provided in Sections Nos. 60, 61 and 62. The ducts to be provided under Schedule Items 18 and 18-A shall include only those intended solely for the purpose of the operation of the Railroad.

Measurement for Excavation.

In the estimate and payment for excavation for Railroad ducts and Railroad duct manholes outside the net lines of the Railroad structure, allowance will be made in earth and in rock for a width of trench eight (8) inches wider than the duct structure or manhole, the depth, measured on the line of the trench, being taken in earth as the distance from the street surface to the lowest part of the structure, in rock as the distance from the surface of the rock to the lowest part of the structure.

Location of Duct Line.

SECTION No. 408. Generally the Railroad duct line will be constructed as indicated on the contract drawings, but to escape existing subsurface structures it may be placed in another location as ordered. Duct manholes shall be built as indicated on the drawings or as directed by the Engineer. These manholes shall be generally at intervals of about four hundred (400) feet. They may vary in form to adapt the work to local conditions. Duct manholes will be paid for in accordance with the various classes of work or material applicable thereto in the Schedule and at the prices stipulated therein for such classes of work or material.

Drain Pipe.

The four (4) inch drain pipes for the duct manholes shall be vitrified pipe of the best quality, thoroughly and perfectly burnt, without imperfections, well and smoothly glazed inside and outside and perfect in shape. It shall be paid for at the price stipulated in Schedule Item 17 (e), which price shall include all work, labor and material incidental to furnishing and laying the pipe in place, and including the proper connections with the sewers, except excavation and the restoration of the street surface, which will be paid for at the prices stipulated in Schedule Items 2-A, 3-A and 30. In the estimate and payment for such excavation allowance will be made for a width of trench two (2) feet wider than the interior diameter of the pipe and a depth of six (6) inches deeper than the invert of the pipe measured from the surface of the street on the line of the trench.

Duct Manholes.

SECTION No. 409. Tunnel duct manholes shall be built as indicated on the drawings or as directed by the Engineer. They may vary in form as may be necessary to adapt the work to local conditions. They are to be considered as part of the Railroad structure, and paid for at the schedule prices for such work. Sliding steel doors of an approved type and with the necessary fittings shall be provided for all duct manholes. Such doors and fittings will be paid for as riveted steel, Schedule Item 19.

At manholes, ducts will be laid to conform to the special conditions. Openings to the street surface shall be provided from all manholes. Ten (10) inch cast-iron pipe will be used for this purpose in some cases. Such pipe when used will be measured in place in the work and will be paid for at the price stipulated in Schedule Item 17 (i).

SUBDIVISION 21.**Conduits.****Open Construction Required.**

SECTION No. 410. In all work where iron pipe conduits are installed for a part of their length in the structure and for another part as open construction, the ends of such runs shall be carried outside of said structure as open construction and shall terminate in outlet or junction boxes located by the Engineer.

Usually to Be Built in.

SECTION No. 411. The iron pipe conduits required by Section No. 410 will be built mainly in the walls, roofs or other parts of the stations; portions, however, of the runs will be left exposed, to be covered later by the station finish work.

Quality of Iron Pipe Conduit.

SECTION No. 412. All iron conduits used for any purpose in connection with the work herein shall be of the best grade (Galvduct or equal) standard weight wrought iron or steel piping, protected inside and out by a coat of zinc or enamel. They shall be delivered to the work in bundles of full length pipes, each length marked with the trade mark of the manufacturer. They shall bend cold 90 degrees about a radius equal to ten diameters without signs of flaw or fracture in either pipe or enamel.

Cleaning and Workmanship.

SECTION No. 413. All conduits shall be carefully cleaned before and after erection, and all ends shall be reamed free from burrs, and inside surfaces shall be free from all imperfections liable to injure the cable.

Joints Water-Tight.

SECTION No. 414. All joints shall be made with standard couplings, well treated with red lead, and screwed up to make a water-tight joint.

Support and Protection.

SECTION No. 415. Conduits built into concrete or other parts of the structure shall be properly protected and supported, so that the same shall not be injured by the building operations.

Strap Supports.

SECTION No. 416. Conduits not built into the structure shall be supported by

approved pipe straps located not more than eight feet apart, or in any other manner designated by the Engineer, and they shall be kept boxed or otherwise suitably protected from injury.

Bends and Offsets.

Section No. 417. Bends and offsets may be made in the field if proper tools are used, but in no case shall deformed, split or crushed conduit be erected. Not more than two right angle bends shall be made between any two outlet boxes without special approval of the Engineer.

Measurement and Payment.

Section No. 418. Measurements for the above iron pipe conduits shall be per lineal foot of single conduit placed in the work—in accordance with the requirements—and payment for the same shall be as herein stipulated in Schedule Item 32.

Outlet and Pull Boxes and Payment for Same.

Section No. 419. All outlet and pull boxes shall be made of cast iron, with openings threaded for the conduit ends, and conduits shall be screwed into these openings and made up with red lead to effect a water-tight joint. Covers shall be of cast iron and water-tight, and no other boxes or covers shall be used except under special permission of the Engineer. The price for each cast iron outlet and pull box furnished and placed in the work shall be as herein stipulated in Schedule Items 33 and 33-A.

SUBDIVISION 22.

Surfaces Restored.

Pavement to Be Restored.

Section No. 420. As soon as the structure in any excavation or trench made within a street shall be completed and the trench back-filled, a temporary pavement shall be laid and maintained for at least four months in a condition satisfactory to the Engineer; and after the earth shall have become, in the opinion of the Engineer, sufficiently settled, the Contractor shall proceed to restore the surface to a condition similar to, and equally as good as, that existing previous to the commencement of construction.

Provisions Apply to Sewer Trenches.

Section No. 421. All the requirements as to street surface restored shall apply to the trenches for sewers, pipes or other subsurface structures along or off the line of the Railroad.

Other Payment May Be Laid.

Section No. 422. Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with the President of the Borough, or such other officer of the City of New York as may be in charge of street paving, to lay a better or other form of street pavement in the roadway between curb lines; or to make arrangements with any property owner to lay another style of sidewalk, or other surface covering within curb lines, in place of the sidewalk or other surface covering taken up; in which case the Contractor shall file with the Commission a copy of his contract with such municipal officer or with such property owner, duly acknowledged in writing by both parties.

Other Contractors May Lay Paving.

In case the municipal officer in charge of street paving, or any property owner desires to lay a pavement in the roadway between curb lines, or a sidewalk, or other surface covering within curb lines, affected by this contract, different from the one removed, and shall notify the Commission in writing that he has failed to make satisfactory arrangements for such work with the Contractor then the Commission, in its discretion, may direct the Contractor to finish and dress off the filling over his work to such grade as the Engineer may select, and further direct him to remove from the area to be restored all material of whatever nature not required to be relaid, and to permit another contractor to lay such roadway pavement, sidewalk or other surface covering; in which case the liability of the Contractor under this contract shall cease, as far as that part of his work is concerned, whenever the Engineer shall report to the Commission that the instructions of the Commission have been complied with, exactly the same as if the Contractor had fully completed the restoration as hereinbefore provided.

The cost of all work of finishing and dressing off the filling over his work and of the removal of all materials not required, referred to above, will be included in the prices stipulated for earth excavation, such work not to be considered in any sense as "street surface restored."

Payment for Street Surface Restored.

Section No. 423. Payment for street surface restored will be made at the prices stipulated in Schedule Item 30 (a) within curb lines, and Schedule Item 30 (e), (f) and (g) between curb lines, which prices shall include the cost of restoring all curbs, manhole heads and covers, gratings, vault lights, etc., that formed a part of the original street surface, and of all temporary surfaces and pavements (including maintenance of same) that may be necessary to maintain traffic pending the final placing of the permanent paving. The support of the street surface between the street railroad tracks and between the rails of each track will not constitute "street surface restored"; that is, the Contractor will not be paid for street surface restored in cases where the original pavement between such street railroad tracks and such rails is not removed and replaced; nor will the area of the top surface of the rails or slot of the street railroads be measured and paid for as "street surface restored."

New Bluestone and Granite Curb.

When required by the Engineer, the Contractor shall furnish and set contiguous to ventilating grating work and station vault light work new bluestone or eight (8) inch granite curb dressed to fit the structure. This new curb in place, including all work, labor and material incidental thereto, will be paid for at the prices stipulated in Schedule Items 30 (i) and (k).

New Curb Line.

When required by the Engineer, the Contractor shall set such new curbs, or restore the old curbs contiguous to such grating and vault light work when new ones are not ordered, at a new line to be established by the President of the Borough, and such additional roadway pavement as may be required thereby will be paid for at the unit price specified in the Schedule applicable thereto.

Measurements.

Section No. 424. The measurement for payment for street and park or parkway surface restored will be to the ordered net lines of excavation. (See also Section No. 449.)

Outside of Net Lines.

Section No. 425. All other street surfaces outside of the net lines of excavation, either along or off the line of the Railroad, that may have become damaged, directly or indirectly, as a result of the Contractor's operations, shall be restored by the Contractor at his own cost and expense to a condition similar to and equally as good as that existing previous to the commencement of construction.

Grass Plots and Trees.

Where any grass plots or trees exist along any street, park or parkway occupied by the Contractor, proper precautions must be taken to protect them from injury. For every tree removed, injured or destroyed, the Contractor shall set out a new thrifty tree of the same kind as the tree removed, injured or destroyed, and not less than fifteen (15) feet in height and not less than three and one-half (3½) inches in diameter measured two (2) feet above the surface of the ground, and in such position as the Commissioner of Parks shall indicate. All grass plots, shrubbery and other plants removed or affected by the construction of the Railroad, shall be restored as soon as possible to as good a condition as existed before the commencement of the work. In replanting trees and the replanting of grass plots the Contractor must be governed by the reasonable requirements of the Commissioner of Parks or by other authorities specially charged with the care of these trees or grass plots, and the nature and depth of the soil to be placed therein must be as approved by such authorities and by the Commission. Payment for all the work covered in this paragraph shall be included in the price paid for street surface restored within curb lines, Schedule Item 30 (a), when such work comes within the ordered net lines of excavation. All such works outside of the ordered net lines of excavation, either along or off the line of the Railroad, shall be restored at the Contractor's own cost and expense.

SUBDIVISION 23

Gratings, Hand-Rails, Etc.

Steel Gratings.

Section No. 426. Steel gratings shall be provided and placed over fan and other ventilating chambers, and over station approaches, at places shown on the plans, or at other places if required by the Engineer. They will be constructed as shown on the detailed plans for gratings.

Steel gratings also shall be provided and placed over stations as prescribed in the preceding paragraph.

Measurement and Payment.

Gratings will be measured to the lines as constructed and payment therefor will be made as herein provided in Schedule Item 28, which price shall include the grating in place in the work, all frames and framing, and all incidental work, labor and material.

Hand Rails.

Seasoned oak or ash hand-rails of one or more horizontal rails may be placed in the Railroad at points where directed by the Engineer. The rails shall be free from knots, sapwood, shakes and other defects and shall have a cross grain between supports not greater than one-fourth (¼) the diameter of the rail. The rails shall be sand-papered to a smooth finish and shall receive two (2) coats of boiled linseed oil. They shall be securely fastened to the wall of the Railroad by means of expansion bolts and as shown on the contract drawings. Measurements for payment for handrails will be per lineal foot of rail in place in the work and payment therefor will be made at the price stipulated in Schedule Item 27-B, which price shall include furnishing and placing the hand-rails complete, including furnishing, oiling and connections.

Vault Lights.

The roofs of the stations, where under sidewalks, shall, to as great an extent as possible, consist of vault light construction. These lights shall be made with lenses, not exceeding three (3) inches in diameter, of strong glass set in cement, in frames or panels, and the joint between the glass and the cement shall be made watertight by the use of an approved elastic composition which shall also serve to protect the glass from breaking due to the contraction of the supporting slab. The panels shall be provided with non-slipping treads, buttons or other devices all of design approved by the Engineer; and shall be of sufficient strength to carry, when supported in a manner similar to that in which they are to be permanently set, an equally distributed load of at least five hundred (500) pounds per square foot without signs of failure, deformation or permanent set, when such test load is removed. The right is reserved to test at least one (1) frame or panel in every ten (10), as selected by the Engineer; and, if that fail, then the whole lot may be rejected. The vault lights must be set in place with cement, lead or other means to be absolutely waterproof; and the joint between the vault light construction and the supporting walls or beams shall be made watertight by the use of an approved elastic composition. Any tests required shall be at the Contractor's expense.

Measurement and Payment.

The area for payment for vault lights shall be to lines not exceeding one (1) foot outside of the inner faces of the supporting walls, and payment will be made at the price stipulated in Schedule Item 29, which price shall include all work, labor and material incidental to the completed vault lights in place.

SUBDIVISION 24.

Tunneling.

Portions of Work Included.

Section No. 427. The provisions of Subdivision 24 shall be deemed to apply to all that portion of the work in Park Avenue south of Sta. 209+53 and also to that portion of the work for the south-bound local track between Sta. 209+53 and a location fifty (50) feet north of the centre line of East 41st Street, including the pier at Sta. 210+22 adjacent to this track; also to that portion of the work for the two express tracks between Sta. 209+53 and Sta. 210+19. They shall also be deemed to apply to the work in East 42nd Street at the Steinway Tunnel level, together with that portion of the elevator shaft in East 42nd Street below elevation +111.62 and that portion of the ventilation shaft for the Steinway Tunnel in Park Avenue below elevation +125. All the above work shall be done by tunneling methods.

Lining.

Portions of the tunnels shall be lined with concrete masonry and portions with concrete and steel beams and columns. The tunnels shall be kept dry by the use of drains, waterproofing, grouting or such other methods as may be directed by the Engineer.

Method Suited to Conditions.

Section No. 428. Tunneling shall be done by methods best suited to the local conditions, which methods shall be approved by the Engineer before the work is commenced. The methods may, and if so required by the Engineer shall, be changed from time to time if in the judgment of the Engineer local conditions so require. The approval by the Engineer of the methods of tunneling or the failure of the Engineer to call attention to improper or inadequate methods or to require a change in methods will not relieve the Contractor of his responsibility for the proper execution of the work.

Drilling and Blasting.

Section No. 429. Drilling and blasting must be conducted with all possible care. If directed by the Engineer, the drill holes shall be placed close together and light charges shall be used in order not to shatter the rock unduly beyond the net outside line of the Railroad structure nor to endanger adjoining property. (See Section No. 449.)

Precautions.

Section No. 430. The Contractor shall comply with all the requirements for storage and care of materials for blasting and with the precautions for blasting given in Subdivision 5, which Subdivision shall be deemed to apply to tunneling to the extent to which it is applicable.

Ventilation and Lighting.

Section No. 431. To assure the safety of the work and the workmen during construction the Contractor shall provide adequate ventilation and lighting.

To Prevent Settlement.

Section No. 432. The Contractor must take every precaution to prevent any settlement or movement of the materials surrounding the excavation and to secure the safety of the work and the workmen. Permanent and temporary timbering or other false work shall be used wherever necessary. Such permanent timbering or other false work shall be kept clear of the net outside lines of the Railroad structure. Temporary timbering shall be removed wherever practicable before placing the concrete lining; where not practicable to remove the temporary timbering before placing the lining, it shall be left in place until the construction will permit of its removal without endangering the work or the workmen and without causing movement or settlement of the material surrounding the excavation.

Outside the Net Lines.

Section No. 433. All space outside the net outside lines of the roof and sidewalls shall be filled with concrete or other approved material.

Grout.

Section No. 434. To insure filling all space in the lining or outside the net outside lines of the roof and sidewalls grout consisting of one part of fine, clean and sharp sand and one part of Portland cement, shall be pumped in under pressure from time to time, as directed by the Engineer, through grout pipes which the Contractor at his own expense shall provide for the purpose.

Backfill.

Section No. 436. In track floor construction, all loose muck shall, if required, be removed to solid rock, and the space between the net line of the floor and the rock surface between tunnel walls and columns shall be replaced by a compacted backfill, as required in Section No. 81, and under tunnel walls and columns by concrete as shown on the drawings, placed at the Contractor's expense.

Leaks Stopped.

Section No. 437. Special care must be used in mixing and placing the concrete lining to prevent percolation of water through it. In case leaks develop, the Contractor at his own expense shall furnish all the work, labor and material necessary and shall stop such leaks.

Loose Rock Removed.

Section No. 438. All loose or shaky rock, whose fall or settlement might, in the judgment of the Engineer, endanger the safety of the work or the workmen, or produce an unequal pressure on the masonry lining, shall be removed and the space refilled with concrete or other approved material.

Measurements for Excavation.

Section No. 439. In the estimate and payment for tunnel excavation and for concrete masonry in the tunnel such tunnel excavation and concrete masonry will be measured and paid for to the net outside line of the floor at the bottom of the tunnel (except for the north-bound local track between Sta. 208+47 and Sta. 209+53 where measurement and payment will be made to excess payment lines as shown on the contract drawings) and (because of the impracticability in tunnel excavation of excavating to an exact line and because of additional space required where timbering is necessary) to lines six (6) inches outside the net outside lines of the sidewalls at

the sides of the tunnels and to a line one (1) foot two (2) inches outside the net outside line of the roof at the top of the tunnels where no waterproofing is used, and to a line two (2) feet three (3) inches outside the net outside lines of the roof where waterproofing is used. Such outside lines at the sides and top of the tunnels governing the measurements for allowance and payment for such tunnel excavation and concrete are called, for convenience, the pay lines for excavation and concrete for the roof and sidewalls. When the Railroad occupies in part space now occupied by the existing Manhattan-Bronx Rapid Transit Railroad or by the existing Steinway Tunnel the pay lines for excavation and concrete shall be as shown on the drawings. No allowance will be made for excavation for the space within the net inside lines of the structures of the Manhattan-Bronx or Steinway Tunnel Rapid Transit Railroads.

No Measurement Outside Net Lines.

Section No. 440. No measurement will be made or money paid for excavation made or concrete or other materials (except grout), placed outside (below, above or wider than) the net outside line of the floor or the pay lines for excavation and concrete for the roof and sidewalls except as noted in Section No. 439.

Excess Excavation.

Section No. 441. No allowance will be made or money paid for any excess excavation caused by slips or slides or for any reason whatsoever for any masonry or other materials (except grout, if ordered) necessary to fill the spaces caused thereby. It is understood and agreed that for all such matters the Contractor has estimated and allowed in the unit prices of the Schedule.

Measurement for Rock Excavation.

Section No. 442. No part of the rock or other material shall project within the net outside lines of the Railroad structure. If, however, a portion of the surface or the whole surface surrounding the excavation lies between the net outside lines of the Railroad structure and the pay lines for excavation and concrete for the roof and sidewalls and for the floor of the north-bound local track between Sta. 208+47 and Sta. 209+53, the excavation and concrete will be measured and paid for out to such pay lines as provided in Section No. 439, and no deduction will be made on account of the fact that the surface of the rock or other material lies partly or wholly within such pay lines.

Rock Seams Drained.

Section No. 443. Rock seams carrying water shall be drained as directed by the Engineer. If ordered by the Engineer, the Contractor at his own expense shall furnish and place galvanized sheet steel pans or shields and shall connect them to drains or pipes in order to prevent water which escapes through the material above the tunnel from injuring the masonry during the placing and setting of same.

Additional Excavation.

Section No. 444. Any additional excavation beyond the net outside line of the floor or the pay lines for excavation for the roof and sidewalls which the Engineer shall require to be made for chambers, skew backs of arches, sump holes, drains or for any other purpose shall, except as herein elsewhere otherwise provided, be measured to the lines ordered by the Engineer and will be paid for at the price stipulated for tunnel excavation in Schedule Item 5. This Section shall not be construed as applying to any of the work called for by Sections Nos. 436 and 438, which shall be done at the Contractor's own expense.

Tunnel Excavation.

Section No. 445. Excavating by tunneling as described in Section No. 427, defined as tunnel excavation, both in earth and in rock, shall be paid for at the price stipulated in Schedule Item 5, which price shall be deemed to cover all expense due to the presence of quicksand or other soft material, rotten rock, boulders, etc., the cost of blasting, of all pumping and bailing, of all timbering or other false work and removal of all filling behind the timbering (except grout if ordered), of the removal and disposal of all excavated material of whatever character, including concrete, hollow tile and ducts in the existing Manhattan-Bronx and Steinway Tunnel Rapid Transit Railroads, of all ventilation and lighting, of maintaining, protecting and securing all surface, subsurface and overhead structures of whatever nature and their appurtenances (including buildings, surface railroads, retaining walls, and the Steinway Tunnel subsurface railroad, as existing or as it will exist when reconstructed east of the easterly end of the work of this contract, including the safety and protection of all trains and passengers or other persons therein (but not including the Manhattan-Bronx Rapid Transit Railroad), and of restoring them to as useful, safe, durable and good a condition as existed before work was begun, of underpinning of buildings or other structures (except the Manhattan-Bronx Rapid Transit Railroad), when such underpinning is necessary for the purpose of securing such buildings or other structures, and of all other work, labor and material incidental to the excavation of the tunnel, including any expense that may arise from loose or shaky rock or from falls or cave-ins or from any unexpected obstacles. (See Section No. 449.)

Increased Dimensions.

Section No. 446. If after the excavation has been made of a certain size by the direction of the Engineer, he is of the opinion that the nature of the rock is such that the form and dimensions of the structure for which such excavation was intended must be increased, he may order an enlargement of the excavation for the purpose of building a structure of greater thickness and the Contractor shall make such enlargement, which enlargement shall be measured to the lines ordered by the Engineer and paid for under the provisions of Article XII.

Payment for Concrete Masonry.

Section No. 447. Concrete masonry for tunnel work will be measured in place in the work to the lines prescribed in Section No. 439, and will be paid for at the price stipulated in Schedule Item 6. (See Section No. 157.)

Payment for Grout.

Section No. 448. Where grout is ordered and used, it will be paid for at the price stipulated in Schedule Item 11.

SUBDIVISION 25. Special Matters.

Explanation.

Section No. 449. The provisions of this subdivision are for the purpose of covering matters which are special to this contract and which are not fully covered in the general specifications, but except as herein otherwise expressly provided the foregoing specifications are to be construed as applying to special matters. In case of any conflict between the provisions of the foregoing general specifications and the provisions of this subdivision, the provisions of this subdivision shall govern.

Connections with Interborough Subway.

The Contractor will be required to furnish all labor and material and to do all the work necessary to remove and reconstruct the adjacent portions of the Manhattan-Bronx and Steinway Tunnel Rapid Transit Railroads operated by or to be operated by the Interborough Company so as to provide connections with the Railroad to be constructed under this contract in accordance with the contract drawings. The general character of this work will consist of the cutting, removing and disposing of masonry and granite foundation stones and steel beams and columns to permit the reconstruction and construction of the work, the removal and disposal of ducts and hollow tile of the existing rapid transit railroad structures; the resurfacing of any exposed face of old concrete masonry in the floor, roof or sidewalls, which has been damaged, with neat cement, including all the work which may be necessary, such as washing, trowelling or floating the cement mortar so as to produce a finished appearance similar to the existing masonry; the necessary drilling for connections of field holes in steel not removed; cutting out rivets, cutting and fitting existing steel work or portions thereof, riveting to existing girders of new cover plates and the cleaning and painting of old steel not removed to which the new steel connects.

Payment for Special Items.

For resurfacing concrete masonry with Portland cement mortar, for removing and disposing of old steel and the drilling of holes in old steel not removed, payment will be made at the prices stipulated in Schedule Items 11-A, 19-C and 20-A respectively. The removal and disposal of concrete, ducts, hollow tile and masonry of whatever character in the Manhattan-Bronx and Steinway Tunnel Rapid Transit Railroad structures will be paid for under Schedule Items 3 and 5 as hereinbefore provided. Payment for cutting out old rivets and for cutting and fitting of steel not removed and cleaning and painting the same will be as provided in Article XII.

Care Required in Blasting.

In the case of the removal of concrete, ducts, hollow tile and masonry of whatever character in the Manhattan-Bronx and Steinway Tunnel Rapid Transit Railroads and the rock contiguous thereto, extraordinary care must be exercised in drilling and blasting, and if directed by the Engineer, the drill holes shall be placed close together and light charges shall be used in order not to endanger the adjoining property or

such existing rapid transit railroads. These materials shall be removed by methods other than blasting if, in the judgment of the Engineer, the safety of the traveling public or of the above-mentioned rapid transit railroads so requires.

Removal of Existing Structures.

No allowance as excavation will be made for the space within the net inside lines of the structures of the Manhattan-Bronx and Steinway Tunnel Rapid Transit Railroads, the base of rail in the case of said Manhattan-Bronx railroad limiting the bottom of said space, but the removal of parts of the structures will be paid for as above provided. The cost of removing any waterproofing and steel reinforcing rods is deemed to be included in the price for removing concrete. All old steel removed shall become the property of the Contractor.

Work at Mezzanine Level.

During the prosecution of the reconstruction and construction work of the Manhattan-Bronx Rapid Transit Railroad at the mezzanine level on the north side of East 42d Street, east of Vanderbilt Avenue, the Contractor shall maintain the passage-way contiguous thereto in a safe condition for traffic, payment for such work being included in Schedule Item 76-J. The restoration of the station finish work will not be included in this contract.

Contractor Not to Interrupt Train Service.

The Contractor must, as more particularly provided in Section No. 63, support and maintain the Manhattan-Bronx Rapid Transit Railroad operated by the Interborough Company without interruption of train operation except as otherwise permitted under the provisions of said section.

Working Space in Tunnels.

The Contractor in connection with his prosecution of the work during the suspension of the express train service in the early morning, subject to all the conditions set forth in Sections Nos. 63 and 64, will be permitted to use the space in each of the two existing rapid transit tunnels which is not necessary for the operation of the local train service.

Crossovers.

The Contractor will be required to allow and arrange with the Interborough Company to put in such crossovers as may be needed between the existing tracks for the prosecution of the work, to provide and lay rails and a ballasted roadbed for the same similar to that now used in the Manhattan-Bronx Rapid Transit Railroad and to alter, reconnect or instal and maintain such signals, lighting and telephone cables as may be necessary for the proper operation of trains, as determined by the Engineer and the Interborough Company. Payment therefor, including all expense of the maintenance and operation of the crossovers, will be made as provided in Article XII. Before such work is undertaken, drawings therefor shall be presented to and receive the approval of the Engineer.

Lights.

The Contractor will not be allowed to display any colored lights in the Manhattan-Bronx Rapid Transit Railroad with the exception of white lights for construction purposes and yellow lights indicating the location of the work in progress, which shall be placed in a manner satisfactory to the Interborough Company.

Duct Line Work.

In order to perform the work under this contract, it will be necessary to remove the electric cables from the ducts which are under the floor of the Manhattan-Bronx Rapid Transit Railroad between the manholes near East 32d Street and the manholes near East 41st Street. These cables or any necessary new cables shall be installed in Railroad ducts to be built by the Contractor in Park Avenue between the same points. A certain amount of reconstruction of the Manhattan-Bronx Rapid Transit Railroad at these points will be necessary. The Contractor shall allow and arrange with the Interborough Company to remove the existing cables from their present location and install them in their new location before any such reconstruction of the railroad and manholes which will interfere with the existing cables is begun. Payment for removing such cables from their present location and installing them in their new location, together with the furnishing of any new cables which may be required, will be made as provided in Article XII.

Payments—Engineer's Decision Final.

Payment for all work, labor and material incident to the reconstruction of the Manhattan-Bronx Rapid Transit Railroad and manholes to provide for the above changes in the cables, will be made at the prices stipulated in the Schedule Items applicable thereto. If any question, dispute or conflict shall arise between the Contractor and the Interborough Company regarding this work, the decision of the Engineer thereon shall be final and binding upon the Contractor.

Temporary Construction Columns.

For that portion of the work in Park Avenue from Sta. 202+08 to Sta. 206+80 temporary construction columns are indicated on the drawings. The purpose of these temporary columns is to support the roof construction pending completion of the new sidewall construction adjacent thereto. These temporary columns will be paid for at the price stipulated in Schedule Item 19-F, which price shall include all work, labor and material incidental to furnishing, placing and removing of said columns, and will be per lineal foot of roof supported measured along the line of said temporary supporting columns as follows: From Sta. 202+13 to Sta. 203+90, and from Sta. 205+03 to Sta. 206+80 for the south-bound tunnel and from Sta. 205+03 to Sta. 206+80 for the north-bound tunnel. These columns will remain the property of the Contractor. In case upon removal, these columns are again erected as part of the permanent structure, payment will be made for them under Schedule Item 19 or 20.

Park Avenue Bridge.

As indicated on the contract drawings certain piers and girders are to be constructed and certain columns and girders reinforced to support the proposed Park Avenue roadway bridge extending from East 40th to East 42d Streets. When the work of such construction has advanced to such a state as will allow other contractors to place thereon the columns, girders or piers for such proposed bridge the Contractor shall allow such work to be done by other contractors as may be directed by the Engineer.

Backfilling in Grand Union Hotel Site.

Within the limits of the property east of Park Avenue between East 41st Street and East 42d Street the Contractor will be allowed to backfill with earth excavation removed from the work and will not be required to compact the backfilling as specified in Subdivision 6. Payment for such backfilling, as provided in Subdivision 6, is included in the prices for excavation.

Open Trench Excavation.

The Railroad, in running from Park Avenue to East 42d Street will pass under certain property in Block No. 1296 on the Land Map of the City of New York, which property has been acquired by the City. The buildings on this property will be razed substantially to the sidewalk level by other contractors. Within the limits of such property the Contractor will be permitted to prosecute his work in open trench excavation without cover and he may, as provided in Article LIII, use such property for his plant and for other purposes in the prosecution of the work.

Excavation in Grand Union Hotel Site.

The removal of all foundation walls and other parts of buildings or vaults in such property and material of any kind in the cellars and vaults that are within the ordered net lines of excavation shall be considered as earth excavation, as provided in Section No. 87. The surface limiting the amounts to be paid for within the ordered net lines of excavation in such property shall be deemed to be at the average curb elevation of the existing curbs of Park Avenue and East 42d Street at the points where such curbs are intersected by the center line of the Railroad structure and no deduction from the volume of excavation determined by the ordered net lines of excavation will be made on account of basements or cellars below such surface nor shall any payment or allowance be made for any materials projecting above such surface.

Street Railroad Ducts.

At East 42d Street and Park Avenue, because of interference with the roof of the Railroad structure, it may be necessary to reconstruct the duct bank of the street railroad in a new location. Owing to such relocation it may be necessary to reconstruct the duct bank for some distance beyond the net lines of the Railroad structure. This reconstruction of the street railroad ducts will be classified and paid for as electric ducts or conduits as described in Section No. 62, and will be subject to all the provisions of said section.

Steinway Tunnel Shaft.

The City has recently acquired property on the north side of East 42d Street between First Avenue and the East River, on which is located a shaft which was used in the construction of the Steinway Tunnel. The reconstruction of the Steinway Tunnel east of Section No. 1 of Route No. 26 is now being performed under a contract between The City of New York and Rapid Transit Subway Construction

Company. Upon the completion of the work of reconstructing the Steinway Tunnel east of Section No. 1 of Route No. 26, the Contractor will be allowed to use the above-mentioned shaft and the northerly track in such Steinway Tunnel between the shaft and the Railroad to be constructed under this contract, for the operation of work trains. As a condition, however, of the use of such shaft and track he shall at his own expense erect a tight board partition along the northerly side of the station platform between Lexington Avenue and Third Avenue for the protection of passengers, and construct a suitable plank floor over the track, for the full length, to protect the same. A tight board partition or bulkhead shall also be erected in the vicinity of the above mentioned shaft to protect the passenger trains, and a bumper east of the shaft shall be built to protect the tracks east of that point.

Bulkhead in Steinway Tunnel.

The Contractor will be required to build a bulkhead at the easterly end of Section No. 1 of Route No. 26, payment for the bulkhead being made under the Schedule Items applicable thereto or as provided under Article XII.

The adjacent portions of the Steinway Tunnel may be put into operation before the completion of the work under this contract. The Contractor in the event of such operation shall conduct his work so as not to interfere with or interrupt the safe and continuous operation of trains in the Steinway Tunnel and so as to avoid injury to passengers or other persons or to property in the Steinway Tunnel and for that purpose the Contractor shall promptly put and keep in force any precautions which the Engineer may require, provided that the failure of the Engineer to require any such precautions shall not excuse the Contractor or relieve him from his responsibility.

Park Avenue Retaining Walls.

The Contractor shall maintain, protect and secure, or in lieu thereof remove and reconstruct the retaining walls (including the iron fence upon same) between the surface railroad in Park Avenue and the driveways on each side thereof, and also the footbridge supported on such retaining walls at East 41st Street. Payment for maintaining, protecting and securing or in lieu thereof removing and reconstructing the above-mentioned retaining walls within the limits of open cut excavation, together with such footbridge at East 41st Street will be made at the price stipulated in Schedule Item 4-CC, which price shall include the cost of all incidental work, labor and material. If in lieu of maintaining, protecting and securing the above-mentioned retaining walls, the Contractor elects to remove and reconstruct them, he must preserve them and upon the completion of the work reconstruct and restore them to as good a condition as existed before work was begun.

It is not anticipated that the carrying out of the work at the Steinway Tunnel level under East 42d Street will cause settlement or cracking of the work at the upper level should the upper level be constructed in advance of or concurrently with the carrying on of the work at the Steinway Tunnel level. However, should the material encountered or the method of carrying on the work show that damage is resulting to, or is likely to result to, the work at the upper level, the Engineer may prescribe the sequence and the relation of the various stages of the Contractor's operations in carrying on the work at the Steinway Tunnel level and the upper level. The Engineer may require that the excavation, or the excavation and the lining, of the Steinway Tunnel level be completed before any work other than excavation is begun for the upper level structure.

If any temporary railroad track construction is found in the Steinway Tunnel, the Contractor shall, as the Engineer may direct, either remove and dispose of same at his own expense or else he shall make such other disposition of the same as the Engineer may elect, in which latter event he shall be paid for making such other disposition under Article XII.

Chapter IV.

SECURITY TO BE FURNISHED BY CONTRACTOR. Contractor's Bond.

Article XXVII. Simultaneous with the execution and delivery of this contract the Contractor shall give security for the performance of his obligation by filing with the Comptroller a bond in the form annexed hereto, entitled "Form of Contractor's Bond," executed by the Contractor and by two or more sureties to be corporations or persons approved by the Commission in the sum of five hundred thousand dollars (\$500,000). The execution of the bond must be duly proved before delivery in the form essential to proof to entitle a deed to record in the State of New York and full affidavits of justification of sureties must be added. In case any of the sureties upon the bond shall become insolvent or unable in the opinion of the Commission to pay promptly the amount of such bond to the extent to which such surety might be liable, then the Contractor within ten days after notice by the Commission to the Contractor shall, by supplemental bond or otherwise, substitute another and sufficient surety to be approved by the Commission in place of the surety so insolvent or unable. If the Contractor shall fail, within such ten days or such further time, if any, as the Commission may grant, to substitute another and sufficient surety, then the Contractor shall, if the Commission so elect, be deemed to be in default in the performance of his obligations hereunder and upon the said bond, and in addition to any and all other remedies the Commission may terminate the contract or may bring any proper suit or proceeding against the Contractor and the sureties, or either of them, or may require the Comptroller or the Interborough Company or both the Comptroller and the Interborough Company to deduct from any moneys then due or which thereafter may become due to the Contractor under this contract the amount for which the surety insolvent or unable as aforesaid shall have justified on the bond; and the Interborough Company shall pay over any amount so deducted by it to the Comptroller; and the moneys so deducted (including any moneys so deducted and paid by the Interborough Company to the Comptroller) shall be held by the Comptroller as collateral security for the performance of the condition of the bond; and such moneys shall in such case be deemed to have been paid by the City or the Interborough Company, as the case may be, to the Contractor upon this contract.

Deposit of Cash or Securities.

Article XXVIII. The Contractor may upon the approval of the Commission deposit with the Comptroller in lieu of said bond cash equal in amount to the entire amount of the said bond or securities which are worth not less than the entire amount of such bond. If securities be deposited, they shall be securities which are lawful for the investment of funds of savings banks within the State of New York and shall be approved by the Commission. A schedule of such securities with their values shall be annexed hereto and entitled "Schedule of Securities," and there shall be deposited with such securities the written approval of the Commission which it shall give when satisfied as to the character and value thereof. All securities when deposited must be payable to, or run in favor of, or be transferred to, the Comptroller. In case any of the securities so deposited shall, in the opinion of the Commission, at any time cease to be of the character of securities which are lawful for the investment of funds of savings banks within the State of New York or shall, in the opinion of the Commission, at any time become of less value than the value stated for it or them in the said schedule, then within ten (10) days after notice to the Contractor of the objection of the Commission, the Contractor shall either substitute therefor securities which shall be approved by the Commission as of the character aforesaid and as being of at least the value of the former securities to which the Commission shall have objected as such value was originally stated in the said schedule or shall deposit with the Comptroller in cash the amount of such value of such former securities as so originally stated. In case the Contractor shall not within such ten (10) days or such further time, if any, as the Commission may grant, substitute such new securities or make such deposit of cash, he shall, if the Commission so elect, be deemed to be in default in the performance of his obligations under this contract; and in addition to any and all other remedies against the Contractor the Commission may require the Comptroller or the Interborough Company or both the Comptroller and the Interborough Company to deduct from any moneys then due or which thereafter may become due to the Contractor under this contract, the amount of the original valuation of such securities objected to; and the Interborough Company shall pay over any amount so deducted by it to the Comptroller; and the Comptroller shall hold the moneys so deducted (including any moneys so deducted and paid by the Interborough Company to him) in lieu of such securities, as if part of the original deposit or as if deposited with him as aforesaid, and such moneys shall in such case be deemed to have been paid to the Contractor upon this contract. The securities so objected to shall upon such substitution of securities or deposit of cash in lieu thereof be returned to the Contractor.

City to Collect Interest.

The City shall from time to time collect all interest, dividends or other profits or income on any securities deposited by the Contractor, and shall, when and as collected, pay the same to the Contractor. If the securities are in the form of coupon bonds the coupons as they respectively become due shall be delivered to the Con-

tractor. If the deposit be made in cash, interest shall be paid to the Contractor at the average rate of interest received by the City on its bank balances during such period. Provided, however, that the Contractor shall not be entitled to interest, dividends or other profits or income on any cash which shall be used or applied as hereinafter provided or on any securities the proceeds of which shall be used or applied as hereinafter provided.

Deposit to Be Security for Faithful Performance.

Article XXIX. The said deposit whether in cash or securities, in the form and as the same shall at any time be, shall be security for the faithful performance by the Contractor of all the covenants, conditions and requirements specified and provided for in this contract. In case of any default on the part of the Contractor in such performance, and in the further case that the City shall for or by reason of such failure, whether by reason of employment of another contractor or contractors or otherwise, incur or become liable for expense or be required to make any payment or incur or suffer any loss or damage, then the Comptroller shall upon the requirement of the Commission, forthwith pay or apply to the use of the City the amount of such expense, payment, loss or damage, including any liquidated damages, out of the said deposit in cash or securities or out of the portion of the deposit remaining at the time.

Sale of Securities.

Article XXX. If such deposit be in securities, the Comptroller shall, upon the requirement of the Commission, in order to make such payment or application to the use of the City, sell at public auction in New York any of the securities which may then constitute part of such deposit upon notice to be published in three daily newspapers, the first publication to be not less than ten (10) days before the sale and such publication to be made three times within such ten (10) days. The Comptroller in his discretion may, and upon the requirement of the Commission shall, adjourn such sale from time to time by announcement at the time and place appointed for such sale or for such adjourned sale or sales; and without further notice or publication, he may make such sale at the time and place to which the same shall be so adjourned. The Comptroller shall, upon the requirement of the Commission, deduct from the proceeds of any such sale all expenses thereof and of such advertisement and pay and apply to the use of the City so much of the residue of such proceeds as may be necessary for the purpose aforesaid. And the Contractor within ten (10) days after notice from the Commission so to do shall by further deposit, according to the requirement of the Commission, of money or securities of the character aforesaid approved by the Commission restore the said deposit with the Comptroller to the full amount originally required; and in case the Contractor shall not within such ten (10) days or such further time, if any, as may be granted by the Commission make such further deposit of money or securities, he shall, if the Commission so elect, be deemed to be in default in the performance of his obligations under this contract; and in addition to any and all other remedies against the Contractor the Commission may require the Comptroller or the Interborough Company or both the Comptroller and the Interborough Company to deduct from any moneys then due or which thereafter may become due to the Contractor under this contract such amount as may be necessary to restore the said deposit with the Comptroller to the full amount originally required; and the Interborough Company shall pay over any amount so deducted by it to the Comptroller; and the Comptroller shall hold the money so deducted (including any moneys so deducted and paid by the Interborough Company to him) as if part of the original deposit or as if deposited with him as aforesaid; and such moneys shall in such case be deemed to have been paid to the Contractor upon this contract. In addition to, or in lieu of, the sale above provided for, the Commission may, in the name and in behalf of the City, bring any appropriate suit or proceeding in any proper court to enforce the lien and claim of the City in and upon the said deposit, whether such deposit be in moneys or securities.

Retention of Security.

Article XXXI. If at any time when the Contractor shall otherwise be entitled to a return of the said deposit, there shall be pending any claim for injury or alleged injury to person or property occurring or alleged to have occurred on account of the work hereunder, whether by reason of the negligence, fault or default of the Contractor or otherwise, or any claim for infringement or alleged infringement of patents or any other claim on account of any neglect, fault or default or alleged neglect, fault or default of the Contractor, for which it shall be claimed that the City shall be liable, then and in that case the said deposit including all interest, dividends and other income thereafter accruing thereon, or such part thereof as the Commission may prescribe shall, upon the requirement of the Commission, be reserved by the Comptroller as security against such claims for a time not exceeding the time when such claims would be legally barred. If and when the liability of the City on such claim or claims shall have been established by a judgment of a court of competent jurisdiction or such claim or claims shall have been admitted by the Contractor to be valid, the City may deduct the amount of such claim or claims from the said deposit before the balance of the said deposit shall be returned to the Contractor as hereinafter provided. For the purpose of making such deduction the Comptroller may sell any of the securities which may constitute part of such deposit in the manner provided in Article XXX.

On Completion of Works.

Article XXXII. When the Contractor shall have fully completed the Work; according to the terms of this contract and the Commission shall so certify, the Comptroller shall pay and deliver to the Contractor the said deposit, or so much thereof as shall not have been reserved or used or applied for any of the purposes above mentioned.

Retained Percentages.

Article XXXIII. In addition and as further security to the City there shall be deducted ten per centum (10%) of the amounts certified from time to time to be due to the Contractor. Such retained percentages shall be held as further security to the City for the faithful performance by the Contractor of all the conditions, covenants and requirements specified and provided for in this contract. The Contractor may from time to time withdraw portions of the amounts so retained upon depositing with the Comptroller corporate stock of the City of a market value equal to the amount so withdrawn from the City or the Interborough Company, as the case may be, in which event the foregoing provisions of this chapter in respect of securities shall apply to such corporate stock. The Interborough Company shall pay to the Contractor such portions of the amounts retained by it as are to be so withdrawn from it upon the certificate of the Comptroller that such corporate stock of a market value equal to such amount to be withdrawn from it has been so deposited with him.

Article XXXIV. Simultaneously with the execution and delivery of this contract the Contractor shall deposit with the Interborough Company cash or securities in the sum of two hundred and fifty thousand dollars (\$250,000) as security to the Interborough Company for the faithful performance by the Contractor of all the terms, conditions, obligations and indemnities of this contract so far as they relate to the work to be done on, affecting or in connection with the Manhattan-Bronx Rapid Transit Railroad or so far as they are intended to protect and indemnify the Interborough Company against all loss and expense on account of the injuries to persons or damages to property and on account of the interruption of train operation in said Manhattan-Bronx Rapid Transit Railroad growing out of the work done by the Contractor. If securities be deposited, they shall be securities of the character which are lawful for the investment of funds of savings banks within the State of New York and shall be approved by the Commission and by the Interborough Company. A schedule of such securities with their values shall be filed by the Contractor with the Commission. All securities when deposited must be payable to, or run in favor of, or be transferred to, the Interborough Company. In case any of the securities so deposited shall, in the opinion of the Commission or the Interborough Company, at any time cease to be of the character of securities which are lawful for the investment of funds of savings banks within the State of New York or shall, in the opinion of the Commission or the Interborough Company, at any time become of less value than the value stated for it or them in the said schedule filed with the Commission, then within ten (10) days after notice to the Contractor of the objection of the Commission or of the Interborough Company, the Contractor shall either substitute therefor securities which shall be approved by the Commission and the Interborough Company as of the character aforesaid and as being of at least the value of the former securities to which objection shall have been made as such value was originally stated in the said schedule or shall deposit with the Interborough Company in cash the amount of such value of such former securities as so originally stated. In case the Contractor shall not within such ten (10) days or such other time, if any, as the Commission and the Interborough Company may grant, substitute such new securities or make such deposit of cash, then, in addition to all rights and remedies of the City under this contract, the Interborough Company shall deduct from any moneys

then due or which thereafter may become due to the Contractor from it under this contract the amount of the original valuation of such securities objected to and shall hold such moneys in lieu of such securities as if part of the original deposit or as if deposited with the Interborough Company as aforesaid, and such moneys shall in such case be deemed to have been paid to the Contractor by the Interborough Company upon this contract. The securities so objected to shall upon such substitution of securities or deposit of cash in lieu thereof be returned to the Contractor.

The Interborough Company shall from time to time receive all interest, dividends and other income paid on any securities deposited by the Contractor and shall pay the same, when and as received, to the Contractor. If the securities are in the form of coupon bonds, the coupons as they respectively become due shall be delivered to the Contractor. If the deposit be made in cash, the interest received on such deposit shall be paid to the Contractor. Provided, however, that the Contractor shall not be entitled to interest, dividends or other income on any cash which shall be used or applied as hereinafter provided or on any securities the proceeds of which shall be used or applied as hereinafter provided.

The said deposit, whether in cash or securities, in the form and as the same shall at any time be, shall be security to the Interborough Company for the faithful performance by the Contractor of all the terms, conditions, obligations and indemnities of this contract so far as they relate to the work to be done on, affecting or in connection with said Manhattan-Bronx Rapid Transit Railroad or so far as they are intended to protect and indemnify the Interborough Company against all loss and expense on account of injuries to persons or damages to property and on account of the interruption of train operation in said Manhattan-Bronx Rapid Transit Railroad growing out of the work done by the Contractor. In case of any default on the part of the Contractor in such performance and in the further case that the Interborough Company shall for or by reason of such default incur any expense or be required to make any payment or incur or suffer any loss or damage, then if and when the liability of the Contractor to the Interborough Company for such expense, payment, loss or damage shall have been finally established by a judgment of a court of competent jurisdiction or shall have been admitted in writing by the Contractor, the Interborough Company shall pay or apply to its use the amount of such expense, payment, loss or damage as so established or admitted out of the said deposit in cash or securities or out of the portion of the deposit remaining at the time.

If such deposit be in securities, the Interborough Company shall, in order to make such payment or application to its use, sell at public auction in New York any of the securities which may then constitute part of such deposit upon notice to be published in three (3) daily newspapers, the first publication to be not less than ten (10) days before the sale and such publication to be made three (3) times within such ten (10) days. The Interborough Company may adjourn such sale from time to time by announcement at the time and place appointed for such sale or for such adjourned sale or sales; and without further notice or publication it may make such sale at the time and place to which the same shall be so adjourned. The Interborough Company shall deduct from the proceeds of any such sale all expenses thereof and of such advertisement and shall pay or apply to its use so much of the residue of such proceeds as may be necessary for the purpose aforesaid. And the Contractor within ten (10) days after notice from the Commission so to do shall by further deposit of money or of securities of the character aforesaid approved by the Commission restore the said deposit with the Interborough Company to the full amount originally required. In addition and as further security to the Interborough Company there shall be deducted ten per centum (10%) of the amounts certified from time to time to be due to the Contractor from said Company until the amount so deducted and retained by said Company shall equal three and one-third per centum (3 1/3%) of the total estimated amount to be paid to the Contractor under this contract as calculated from the estimated approximate quantities and the prices contained in the Schedules of Unit Prices in the Contractor's Proposal. Such retained percentages shall be held as further security to the Interborough Company for the faithful performance by the Contractor of all the terms, conditions, obligations and indemnities of this contract so far as they relate to the work to be done on, affecting or in connection with the Manhattan-Bronx Rapid Transit Railroad or so far as they are intended to protect and indemnify the Interborough Company against all loss and expense on account of injuries to persons or damages to property and on account of the interruption of train operation in said Manhattan-Bronx Rapid Transit Railroad growing out of the work done by the Contractor. The Contractor may from time to time withdraw portions of the amounts so retained by the Interborough Company upon depositing with the Interborough Company corporate stock of the City of a market value equal to the amount so withdrawn from the Interborough Company, in which event the provisions of this Article in respect of securities shall apply to such corporate stock.

If at any time when the Contractor shall otherwise be entitled to a return of the said deposit and of the said percentages retained by the Interborough Company under the terms of this Article there shall be pending any claim by or against the Interborough Company on account of injuries or alleged injuries to persons or damages or alleged damages to property or on account of the interruption or alleged interruption of train operation in said Manhattan-Bronx Rapid Transit Railroad growing or alleged to have grown out of the work done by the Contractor, then and in that case the said deposit, including all interest, dividends and other income thereafter accruing thereon, and the said percentages retained by the Interborough Company under the terms of this Article, or such part of said deposit and retained percentages as the Commission may prescribe shall, if the Commission so require or permit, be reserved by the Interborough Company as security against such claims until such claims shall be either finally determined by a court of competent jurisdiction or shall be legally barred or shall be admitted by the Contractor in writing to be valid, and the amount of any damages or costs suffered or paid by the Interborough Company on account of any such injury to person or damage to property or such interruption of train operation as so determined or admitted shall be deducted from the said deposit and retained percentages before the balance of said deposit and retained percentages shall be returned to the Contractor as hereinafter provided. For the purpose of making such deduction the Interborough Company may sell any of the securities which may constitute part of such deposit in the manner above provided.

When the Contractor shall, in the opinion of the Commission, have completely performed all the terms, conditions, obligations and indemnities of this contract so far as they relate to the work to be done on, affecting or in connection with said Manhattan-Bronx Rapid Transit Railroad or so far as they are intended to protect and indemnify the Interborough Company against all loss and expense on account of injuries to persons or damages to property and on account of the interruption of train operation in said Manhattan-Bronx Rapid Transit Railroad growing out of the work done by the Contractor, and the Commission shall have so certified in writing, the Interborough Company shall promptly pay and deliver to the Contractor the said deposit and the said percentages retained by it under this Article or so much thereof as shall not, upon the requirement or with the permission of the Commission, be reserved, or shall not have been used or applied, for any of the purposes herein mentioned.

Neither the City nor the Commission nor any member of the Commission shall be responsible for any error or mistake in the reservation, payment, use, application or release of said deposit or said percentages retained by the Interborough Company under this Article or any part thereof.

Nothing in this Article contained shall be construed as precluding or estopping the Interborough Company from showing that any article or action of the Commission under this Article is wrongfully or improperly made, taken or withheld.

CHAPTER V.

Payments to Contractor.

Amount to Be Paid by Interborough Company. Estimates and Partial Payments.

Article XXXV. The Contractor shall look to the Interborough Company for the payment of the sums earned under this contract to an amount up to but not exceeding* dollars (\$), which the Interborough Company agrees to pay at the times and in the manner and upon the terms and conditions herein provided, and to the City for all sums over and above such amount. The Interborough Company shall not be liable hereunder beyond said amount. In

*This blank shall be filled in before the contract is executed with an amount equal to fifty per centum (50%) of the total estimated amount to be paid to the Contractor under the contract as calculated from the estimated approximate quantities and the prices contained in the Schedules of Unit Prices in the Contractor's Proposal.

order to assist the Contractor to prosecute the work advantageously, the Engineer shall from time to time as the work progresses, but not more often than once a month, make in writing an estimate in duplicate, such as in his opinion shall be just and fair, of the amount and value of the work done and materials incorporated in the work by the Contractor according to the terms of this contract (but it is understood that in making such estimates the Engineer shall not necessarily be governed by the prices contained in the Schedules of Unit Prices), provided, however, that estimates may at any time be withheld or reduced if, in the opinion of the Engineer, the work is not proceeding in accordance with this contract. The first such estimate shall be of the amount and value of the work done and materials incorporated in the work since the Contractor commenced the performance of this contract on his part. Every subsequent estimate except the final estimate shall be of the amount and value of the work done and materials incorporated in the work since the last preceding estimate was made, provided, however, that no such estimate shall be required to be made when, in the judgment of the Engineer, the total value of the work done and materials incorporated in the work since the last preceding estimate amounts to less than ten thousand dollars (\$10,000). The Engineer shall further include accepted structural steel of all classes delivered on the site of the work or on property owned or leased by the City but not incorporated in the work at an amount equal to sixty per centum (60%) of an average price for such steel. Such average price shall be obtained by dividing the sum of the prices stipulated in Schedule Items 19 and 20 by two. But the quantity of such structural steel included in any partial estimate or estimates shall not exceed the quantity of such material, as determined by the Engineer, required for the ensuing six months, and any materials included in a partial estimate which may subsequently become unsatisfactory shall be deducted from succeeding partial estimates. All such steel so accepted shall be and become the property of the City. No materials not incorporated in the work, excepting such structural steel, shall be included in any estimate. The Engineer shall, subject, however, to all the provisions of this contract, further include in each partial estimate after the Contractor shall have begun actual work which in the opinion of the Engineer affects the Manhattan-Bronx Rapid Transit Railroad a proportionate share or amount, to be estimated by the Engineer, of one-half of the price stipulated in Schedule Item 76-J, such proportionate share or amount being determined by the proportion that the period during which the work included in such partial estimate was performed bears to the total period from the date when such actual work affecting said Rapid Transit Railroad was begun to the expiration of the time stipulated in this contract for the completion of the Works.

Not by Strict Measurement.

Article XXXVI. Such estimates shall not be required to be made by strict measurement, but they may be made by measurement or by estimation, or partly by one method and partly by the other, and it shall be sufficient if they are approximate only.

Vouchers.

Article XXXVII. Upon each such estimate being made and certified in writing to the Commission, the Commission shall prepare and certify two vouchers aggregating ninety per centum (90%) of the amount stated in such estimate or certified to be the value of the work done and material furnished as provided in Article XXXIII. One of such vouchers shall be payable by the City and the other of such vouchers shall be payable by the Interborough Company. The voucher payable by the City shall be for an amount equal to fifty per centum (50%) of such estimate less fifty per centum (50%) of the amount to be deducted from such estimate as retained percentages as provided in Article XXXIII. The voucher payable by the Interborough Company shall be for an amount equal to fifty per centum (50%) of such estimate less fifty per centum (50%) of the amount to be deducted from such estimate as retained percentages as provided in Article XXXIII. The Commission shall thereupon transmit the voucher payable by the Interborough Company accompanied by a duplicate original of such estimate to the Interborough Company for payment and the Interborough Company within thirty (30) days after the receipt of such voucher shall pay the same to the Contractor, provided, however, that the Interborough Company shall deduct and retain from the amount of each voucher ten per centum (10%) thereof as additional security as provided in Article XXXIV until the amount so deducted and retained shall equal three and one-third per centum (3 1/3%) of the total estimated amount to be paid to the Contractor under this contract as calculated from the estimate approximate quantities and the prices contained in the Schedule of Unit Prices in the Contractor's Proposal. The voucher payable by the City shall be paid within thirty (30) days after the date of the certification of such voucher by the Commission. Provided, however, that the City may and the Interborough Company may, and upon the requirement of the Commission shall, at all times reserve and retain from said partial payments of any of them, in addition to the ten per centum (10%) mentioned in Article XXXIII to be deducted and retained as security to the City and in addition to the ten per centum (10%) mentioned in Article XXXIV to be deducted and retained as security to the Interborough Company, any sum or all sums which by the terms hereof or of any law of the State of New York either the City or the Interborough Company or both the City and the Interborough Company may be authorized to reserve or retain.

Final Estimate.

Article XXXVIII. Whenever, in the opinion of the Engineer, the Contractor shall have completely performed this contract on his part and all work under this contract, the Engineer shall so certify, in writing and in duplicate, to the Commission, and in his certificate shall state, from actual measurements, the whole amount of work done by the Contractor, and also the value of such work under and according to the terms of this contract and also the balance of the amount remaining of the maximum amount specified in Article XXXV hereof for which the Interborough Company is liable hereunder after deducting all such sums as shall theretofore have been paid by the Interborough Company to the Contractor under the provisions of this contract (including interest, if any, paid under the provisions of Article XXXIX hereof) and any other sum or sums which the Engineer shall state in such certificate should be deducted. Upon the receipt of such certificate the Commission shall forthwith prepare and certify two final vouchers (or one, payable by the Interborough Company, in the event hereinafter specified) aggregating the amount remaining after deducting from the amount or value of the work done under and according to the terms of this contract as stated in such certificate all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this contract (exclusive of interest, if any, paid under the provisions of Article XXXIX) and also any sum or all such sums of money as by the terms hereof either the City or the Interborough Company or both the City and the Interborough Company may be authorized to reserve or retain other than the said percentages which the Interborough Company is authorized to retain under the terms of Article XXXIV; provided, however, that nothing herein contained shall be construed to affect the right, hereby reserved, of the Commission to reject the whole or any portion of the aforesaid work should the said certificate be found or known to be inconsistent with the terms of this contract or otherwise improperly given. All prior certificates upon which partial payments may have been made, being merely estimates, shall be subject to correction in the final certificate, which final certificates may be made without notice thereof to the Contractor or of the measurements upon which it is based. One of such final vouchers shall be payable by the City and the other shall be payable by the Interborough Company. The voucher payable by the Interborough Company shall be for the balance remaining of such maximum amount specified in Article XXXV hereof for which the Interborough Company is liable hereunder or so much thereof as may have been certified by the Engineer; provided, however, that if such balance or so much thereof as may have been certified by the Engineer shall equal or exceed the amount aforesaid remaining from the amount or value of the work done under and according to the terms of this contract as stated in such certificate after making the deductions aforesaid, then the voucher payable by the Interborough Company shall be for such remaining amount, and no voucher shall in that case be prepared or certified for payment by the City. The Commission shall transmit such voucher payable by the Interborough Company accompanied by the duplicate original of such final certificate to the Interborough Company and the Interborough Company, on or before the expiration of ninety (90) days after the receipt of such voucher and certificate shall pay the amount due on such voucher, provided, however, that the Interborough Company, if so required or permitted by the Commission, shall deduct and retain as security from the amount of such voucher the retained percentages mentioned in Article XXXIV, or such part thereof as the Commission shall prescribe. The voucher payable by the City shall be for the difference between the amount aforesaid remaining from the amount or value of the work done under and according to the terms of this contract as stated in such certificate after making the deductions aforesaid and the amount of the voucher payable by the Interborough Company. The

City shall pay the amount due on such voucher payable by it on or before the expiration of ninety (90) days after the acceptance of the work herein agreed to be done by the Contractor and the filing of a certificate of the completion and acceptance of the work in the office of the Comptroller signed by the Engineer and the Commission.

Interest on Delayed Payments.

Article XXXIX. If the payment of the amount due the Contractor on any voucher shall be delayed beyond the time stipulated in Article XXXVII in the case of partial payment, or Article XXXVIII in the case of final payment, the City shall pay if the delay shall occur in the case of a voucher payable by the City and the Interborough Company shall pay if the delay shall occur in the case of a voucher payable by the Interborough Company to the Contractor interest on such amount at the rate of four and one-half (4½) per centum per annum for the period of such delay; it being understood that such payments of interest, if any, are to be in lieu of any claim of the Contractor for alleged damages for breach of contract or otherwise in case of delayed payments. Provided, however, that the Contractor shall not be entitled to interest on any sum or sums which by the terms hereof or of any law of the State of New York either the City or the Interborough Company or both the City and the Interborough Company may be authorized to reserve or retain. The term for which interest shall be paid shall be reckoned, in the case of a partial payment by the City from the thirtieth day after the certification of such voucher by the Commission, and in the case of a partial payment by the Interborough Company from the thirtieth day after the receipt of such voucher by the Interborough Company, and in the case of a final payment by the City from the ninetieth day after the acceptance of the work by the Commission and the filing of such certificate of the completion and acceptance of the work in the office of the Comptroller and in the case of a final payment by the Interborough Company from the ninetieth day after the date of the receipt of such voucher and the final certificate by the Interborough Company, to the date of payment of the voucher. The date of payment of a voucher shall be considered the day on which the voucher is ready for payment as evidenced by the records of the Department of Finance or of the Interborough Company, as the case may be. If interest shall become due on any partial payment the amount thereof, as determined by the Commission, shall be added to a succeeding payment. If interest shall become due on a final payment it shall be paid on a supplementary voucher prepared by the Commission and forwarded to the Comptroller or the Interborough Company, as the case may be, for payment in the usual manner. But the provisions of this article as to payment by the Interborough Company of interest on any final payment due from the Interborough Company shall be subject, as between the City and the Interborough Company, to the provisions of Article XII of said contract dated March 19, 1913, to the effect that if, after the contribution of the Interborough Company shall have been exhausted, there shall accrue any valid claim against the Interborough Company in connection therewith, whether by reason of outstanding contracts or otherwise, the City shall on demand of the Interborough Company promptly settle and pay such claim or claims.

Provided, however, that the Interborough Rapid Transit Company shall not be entitled to charge to cost of construction or cost of equipment under the said contract of March 19, 1913, interest on any payment the delay in the payment of which has been occasioned otherwise than in good faith or for causes beyond the control of the Interborough Rapid Transit Company.

No Estoppel.

Article XL. The City shall not, nor shall any Department or officer thereof, be precluded or estopped by any return or certificate made or given by the Commission, any Engineer, or other officer, agent or appointee thereof under any provision of this contract, from at any time either before or after the final completion and acceptance of the work and payment therefor pursuant to any such return or certificate, showing the true and correct classification, amount, quality and character of the work done and materials furnished by the Contractor or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages as it may sustain by reason of his failure to comply with this contract or the specifications.

No Waiver.

Article XLI. Neither the acceptance of the Commission or its Engineer, or any of its employees, nor any order, measurement or certificate by the Engineer, nor any order by the Commission for payment of money, nor any payment for, nor acceptance of the whole or any part of the work, nor any extension of time, nor any possession taken by the Commission, or its employees, shall operate as a waiver of any portion of this contract or of any power herein reserved to the Commission, or any right to damages herein provided; nor shall any waiver of any breach of this contract be held to be a waiver of any other or subsequent breach.

Final Payment to Terminate Liability of City.

Article XLII. The acceptance by the Contractor of the last payment by the City aforesaid or the final payment by the Interborough Company in case no final voucher shall be prepared or certified for payment by the City as aforesaid shall be and shall operate as a release to the City from all claim and liability to the Contractor for anything done or furnished for, or relating to, the work or for any act, neglect, fault or default of the Commission, the City, the Interborough Company or of any person relating to or affecting the work, except only the claim against the City for the remainder, if any there be, of the amounts kept or retained by the City as provided in this contract. The acceptance by the Contractor of payments by the Interborough Company, whether partial or final, aggregating the maximum amount specified in Article XXXV hereof shall be and shall operate as a release to the Interborough Company from all claim and liability to the Contractor hereunder.

Contractor's Claims for Damages.

Article XLIII. If the Contractor shall claim compensation for any damage sustained by reason of any act, neglect, fault or default of the City or the Commission of their agents, he shall, within ten (10) days after the sustaining of such damage, make a written statement to the Engineer of the nature of the damage sustained. On or before the fifteenth day of the month succeeding that in which any such damage shall have been sustained, the Contractor shall file with the Engineer an itemized statement of the details and amount of such damage, and, unless such statement shall be made as thus required, his claim for compensation may in the discretion of the Commission be forfeited and invalidated and he shall not be entitled to payment on account of any such damage.

Lien Law.

Article XLIV. All the provisions of the Lien Law relating to liens under contracts for public improvements and the discharge and enforcement thereof shall be deemed to apply to the moneys of the Interborough Company to the extent of the amount thereof due or to become due to the Contractor under this contract as though such moneys were the moneys of the City applicable to this contract, provided, however, that the notice of such lien and all subsequent notices relating thereto shall be served upon the Interborough Company as well as upon the Comptroller and the Commission.

If at any time before or within thirty (30) days after the whole work agreed herein to be performed has been completed and accepted by the City, any person or persons claiming to have performed any labor or furnished any material toward the performance or completion of this contract shall file with the Commission and with the Comptroller (and with the Interborough Company in case a lien is sought upon the moneys of the Interborough Company as aforesaid) any such notice as is described in the Lien Law, the City or the Interborough Company or both the City and the Interborough Company may retain from any moneys which would otherwise be payable to the Contractor hereunder by the City or the Interborough Company an amount or amounts sufficient to satisfy and discharge the amount in such notice claimed to be due, together with the costs of any action or actions brought to enforce such lien created by the filing of such notice, until such lien shall be discharged as provided by law. If such lien shall be foreclosed according to law, then the City or the Interborough Company or both the City and the Interborough Company may pay the amount necessary to satisfy such lien, with interest and costs, to the person entitled thereto, and such payment shall be deemed to be a payment hereunder to the Contractor by the City or the Interborough Company or both the City and the Interborough Company, as the case may be. If the amount or amounts so retained shall not be sufficient to satisfy such lien so foreclosed with interest and costs, the deficiency may be retained by the City or the Interborough Company or both

by the City and the Interborough Company out of any moneys thereafter becoming due to the Contractor hereunder.

Chapter VI.

CONTRACTOR'S LIABILITY FOR INJURIES TO PERSONS OR PROPERTY.

Contractor Approves Plans as Involving no Damage.

Article XLV. The Contractor expressly admits and covenants that the drawings and specifications and other provisions of this contract, if the work be done without fault or negligence on the part of the Contractor, do not involve any danger to the foundations, walls or other parts of adjacent, abutting or overhead buildings or structures or surfaces, including the Manhattan-Bronx Rapid Transit Railroad, its equipment and rolling stock; and the Contractor will at his own expense make good any damage that shall, in the course of construction, be done to any such foundations, walls or other parts of adjacent, abutting or overhead buildings or structures or surfaces. The liability of the Contractor under this covenant is absolute and is not dependent upon any question of negligence on his part or on the part of his agents, servants or employees, and the neglect of the Engineer to direct the Contractor to take any particular precautions or to refrain from doing any particular thing shall not excuse the Contractor in case of any such damage.

It is the intention of the parties to this contract that in addition to indemnifying the City against all claims for damages, the Contractor shall also be liable to the owners of adjacent, abutting or overhead property, buildings or structures, including the Manhattan-Bronx Rapid Transit Railroad, its equipment and rolling stock and to all tenants, lessees and occupants of such buildings or structures for all physical injuries to persons or property which may be occasioned by the work of construction, even in cases where such owners, tenants, lessees or occupants have no legal claim against the City for such injuries.

Traffic to be Maintained.

Article XLVI. The Contractor shall during the performance of the work safely maintain the traffic on streets, avenues, highways, and other public places as provided in the specifications, and shall take all necessary precautions to place proper guards for the prevention of accidents, and put up and keep at night suitable and sufficient lights.

Indemnification for Accidents, Etc.

Article XLVII. The Contractor shall be solely responsible for all physical injuries to persons or property occurring on account of and during the performance of the work hereunder, and shall indemnify and save harmless the City from liability upon any and all claims for damages on account of such injuries to persons or property, and from all costs and expenses in suits which may be brought against the City for such injuries to person or property; it being distinctly understood, stipulated and agreed that the Contractor shall be solely responsible and liable for and shall fully protect and indemnify the City against all claims for damages to persons or property occasioned by or resulting from blasting or other methods or processes in the work of construction, whether such damages be attributable to negligence of the employees or otherwise. If compensation for any such injury to property shall be included in any judgment or award in any action or proceeding, the Contractor shall, upon demand, promptly reimburse the City for any payments made by it on account thereof.

The Contractor shall be responsible for the support, maintenance, safety and protection of the Manhattan-Bronx Rapid Transit Railroad and for the safety and protection of all passengers and other persons therein and shall be responsible and liable for any damage thereto and any injuries to person or property therein occurring on account of the performance of the work under this contract, whether due to the negligence, fault or default of the Contractor or not; and the Contractor, in addition to indemnifying the City from liability upon any and all claims for damages on account of such damage or of such injuries to person or property and from all costs and expenses in suits which may be brought against the City for such damage or such injuries, shall also indemnify and save harmless the Interborough Company from loss on account of any such damage and from liability upon any and all such claims for damages on account of such injuries and from all costs and expenses in suits which may be brought against the Interborough Company for such injuries. The liability of the Contractor hereunder is absolute and is not dependent upon any question of negligence on his part or on the part of his agents, servants or employees, and neither the approval by the Engineer of the methods of doing the work nor the failure of the Engineer to call attention to improper or inadequate methods or to require a change in methods nor the neglect of the Engineer to direct the Contractor to take any particular precautions or to refrain from doing any particular thing shall excuse the Contractor in case of any such injury to person or property.

Money Due the Contractor May be Retained to Meet Claims.

Article XLVIII. In case any claim shall be made at any time by any person or corporation against the Contractor or the City for injury or alleged injury to person or property occurring or alleged to have occurred on account of the work hereunder, whether by reason of the negligence, fault or default of the Contractor or otherwise, or for any infringement or alleged infringement of patents or for any neglect, fault or default or alleged neglect, fault or default of the Contractor, the amount of such claim or so much thereof as the Commission may deem reasonable shall, upon the requirement and in the discretion of the Commission, be retained by the Comptroller or by the Interborough Company or both by the Comptroller and the Interborough Company out of any moneys then due or thereafter growing due to the Contractor hereunder (in addition to the other sums herein authorized to be so retained) as security for the payment of such claim or claims. If and when the liability of the City or the Contractor on such claim or claims shall have been established by a judgment of a court of competent jurisdiction or such claim or claims shall have been admitted by the Contractor to be valid, the said claim or claims may be paid from the amount so retained and the balance, if any, paid to the Contractor. Should there be any unsatisfied claim or claims for injury or alleged injury to person or property occurring or alleged to have occurred on account of the work hereunder, whether by reason of the negligence, fault or default of the Contractor or otherwise, or for any infringement or alleged infringement of patents or for any neglect, fault or default or alleged neglect, fault or default of the Contractor at the time when the final voucher or vouchers for the work are prepared and certified, the Commission shall have the right to retain out of the final payment or payments and to deduct from the amount of the final voucher or vouchers a sum in its judgment sufficient to protect the City in regard to all unsatisfied claims as aforesaid, and in case the amount thus retained should be insufficient to pay the amount adjudicated to be due upon such claim or claims, the City may sue for and recover from the Contractor the amount or balance as a debt from the Contractor to the City. The Commission may further, if in its judgment such a course is necessary or proper, at the time of preparing and certifying the final voucher or vouchers and as a condition of preparing and certifying the same, require the Contractor to continue his bond or other security or any part thereof as security against any claims then unsatisfied or not presented for a time not exceeding the time when such claims would be legally barred.

Examinations of Abutting Property.

Article XLIX. In order to safeguard the owners and tenants of adjacent or abutting property and at the same time prevent unjust or fraudulent claims against the Contractor or the City in respect thereto, the Engineer shall cause a detailed examination of all adjacent or abutting property to be made before construction is begun. The owner or tenant of each parcel or his or their duly authorized representative shall be invited by a notice to be present, in writing delivered to a person apparently in charge of the premises, and the Contractor, or his duly authorized representative, shall attend and with the Engineer shall make such detailed examination. A complete record of the existing conditions of each parcel shall be made in triplicate, signed by the Engineer and the Contractor, and one copy shall be delivered to the owner, one to the Contractor and one shall be retained by the Commission. At such times as the Engineer may direct, and upon the completion of the work, or upon notice to the Engineer by the owner or tenant that physical injury has occurred, further examination shall be made and the findings recorded and filed as above.

Damage to Works During Construction.

Article L. All risk of loss or damage to the Works, or to any part thereof, or to any of the materials, plant, tools, appliances or other things used in doing the work, prior to final completion, is assumed and shall be borne by the Contractor, and any such loss or damage shall be made good by the Contractor at his own cost, and the construction shall be carried forward by him in accordance with this contract, without additional cost to the City or the Interborough Company by reason of such loss or damage.

Chapter VII.

CITY TO SECURE CONTRACTOR AGAINST INTERFERENCE BY INJUNCTIONS, TO ACQUIRE REAL ESTATE, ETC.

City's Assurances to Contractor of Right to Construct.

Article LI. The City hereby stipulates and covenants to and with the Contractor that the City will secure and assure to the Contractor so long as the Contractor shall perform the stipulations of this contract, the right to construct the Railroad as prescribed in this contract free of all right, claim or other interference, whether by injunction, suit for damages or otherwise, on the part of any owners, abutting owner, or other person; but not including any interference, legal or otherwise, by patentees or persons claiming to be patentees of tools, methods or appliances.

Claims for Infringement of Patents.

Article LII. The Contractor shall hold himself and shall be responsible for any claims made against the City for any infringement of patents by the use of patented tools, articles or appliances in the performance or completion of the work or by the use of any process or method connected with the work or by the use of any materials used upon the work; and he shall save harmless and indemnify the City from and against all costs, expenses and damages which the City shall incur or be obliged to pay by reason of any such infringement.

Contractor to Have Use of Real Estate.

Article LIII. The Railroad, in running from Park Avenue to Forty-second Street, will pass under certain property in Block No. 1296 on the Land Map of the City of New York which was formerly occupied by the Grand Union Hotel buildings. This property extends along the easterly side of Park Avenue from Forty-first Street to Forty-second Street and has a depth of two hundred and thirty (230) feet. This property has been acquired by the City and the buildings thereon will be razed substantially to the sidewalk level by other contractors. The City will put the Contractor in possession of said property promptly upon written demand by the Contractor upon the Commission for said property and the Contractor may thereafter use said property, subject to the provisions of this contract, as a site for plant in connection solely with the construction of the Railroad and for other purposes in connection solely with such construction for the period during which in the opinion of the Commission such property is necessary for the construction of the Railroad. In case the City shall fail to put the Contractor in possession of said property promptly upon such written demand and in case the Contractor shall be actually and necessarily delayed by reason of such failure and cannot, notwithstanding such failure, with reasonable diligence make up for the delay so occasioned by speedier work when the Contractor shall not be so delayed, then as provided in Article LV the date for the completion of the Works shall be extended by resolution of the Commission by the amount of the time of such delay as determined by the Commission; but no allowance by way of damages will be made for such delay. Whenever in the opinion of the Commission said property is no longer required by the Contractor for the construction of the Railroad or in case the Commission in any of the events stated in Article LXII shall require the Contractor to discontinue the work or any part thereof and shall require the Contractor to quit and surrender said property, the Contractor shall forthwith quit and surrender the same; and in case of his failure so to do, the Commission may remove him therefrom and charge the expense of such removal to him.

Chapter VIII.

TIME FOR COMPLETION, DAMAGES FOR DELAY, ETC.

Commencement and Completion of Work.

Article LIV. Time is of the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the date of delivery of this contract and shall thenceforth prosecute the work continuously and diligently. The entire work covered by this contract shall be completed in all respects within twenty-eight (28) months from the date of delivery of this contract.

Damages for Delay.

Article LV. In the event of delay in completion of the Works beyond the period herein prescribed, or beyond the period to which such time may be extended by resolution of the Commission for good cause shown, the City shall—whether the working force be increased as provided in the specifications or not—be paid damages for such delay. Inasmuch as the amount of such damages will be extremely difficult to ascertain, especially in view of the fact that the Railroad is only a part of a complete system, the remainder of which is to be constructed under other contracts, it is hereby expressly agreed that such damages shall be liquidated and paid as follows: The Contractor shall pay to the City for each and every day, except Sundays and legal holidays, that he shall be in default in completing the entire work to be done under this contract the sum of three hundred dollars (\$300), which sum is hereby agreed upon not as a penalty but as liquidated damages which the City will suffer by reason of such default. The City may deduct or may require the Interborough Company to deduct or may both deduct and require the Interborough Company to deduct such amounts from any moneys due or which may thereafter become due to the Contractor under this contract. But in case the Contractor shall be actually and necessarily delayed by reason of any labor strike not caused or instituted or provoked by the Contractor or by any sub-contractor, agent or representative of the Contractor or in case the Contractor shall be actually and necessarily delayed by any injunction or by any interference of public authority or by the suspension of the whole or any part of the work by the Commission as provided in Article LVIII or by the failure of the Commission to put him in possession of the property referred to in Article LIII as therein provided, and in case the Contractor cannot, notwithstanding such strike, injunction, interference, suspension or failure, with reasonable diligence make up for the delay so occasioned by speedier work when the Contractor shall not be so delayed, then the said date for completion shall, except as hereinafter provided, be extended by resolution of the Commission to a date later than the expiration of the said period of twenty-eight (28) months by the amount of the time of such delay as determined by the Commission.

Commission May Intervene in Case of Injunctions.

Article LVI. But no injunction, strike or interference of public authority shall be ground for such extension unless and until the Contractor shall give the Commission notice of the injunction or other cause of delay, with copies of the injunction or other orders and of the papers upon which the same shall have been granted, and no extension shall be granted except for the delay occasioned after the giving of such notice. Nor shall any extension be granted in any case unless the Contractor shall prove to the satisfaction of the Commission all the facts which entitled him to such extension. The Commission and the City or either shall be accorded the right to intervene or become a party to any suit or proceeding in which any such injunction shall be obtained, and to move to dissolve the same or otherwise, as the Commission or the City may deem proper. If necessary the Corporation Counsel or the Counsel to the Commission or both shall be authorized by the Contractor to appear, for that purpose, as counsel or attorneys for him.

Suspension of Work and Additional Time for Performance.

Article LVII. The Commission reserves the right of temporarily suspending the execution of the whole or any part of the work herein contracted to be done, if it shall deem it for the interest of the City so to do, without compensation to the Contractor for such suspension other than extending the time for completing the work as hereinbefore provided as much as, in the opinion of the Commission, it may have been delayed by such suspension.

Extensions Not Cumulative.

Article LX. Only the actual delay necessarily resulting from one or more of the causes above mentioned shall be ground for extension of time, and in case the Contractor shall be delayed at any time or for any period by two or more of the causes above mentioned, only one period of extension, if any, shall be granted for such delay and the Contractor shall not be entitled to a separate extension for each one of the causes so operating, it being understood that only the actual period of necessary delay, as determined by the Commission, irrespective of the number of causes contributing to produce such delay, will be ground for extension of time.

Permission to Complete Contract Not a Waiver.

Article LXI. The permitting of the Contractor to go on and finish the work or any part of it after the time fixed for its completion or after the date to which the time for completion may have been extended or the making of payments to the Contractor after any of such periods shall in no wise operate as a waiver on the part of the City or the Interborough Company of any of its rights under this contract.

Chapter IX.

REMEDIES IN CASE OF CONTRACTOR'S DEFAULT.

In Case of Default.

Article LXII. If the work to be done under this contract shall be abandoned by the Contractor, or if this contract shall be assigned, or the work sublet by him,

otherwise than as herein specified, or if at any time the Engineer shall be of the opinion, and shall so certify in writing to the Commission that the performance of this contract is unnecessarily or unreasonably delayed, or that the Contractor is willfully violating any of the provisions or covenants of this contract, or of the specifications, or is executing the same in bad faith or not in accordance with the terms hereof, or if the work be not fully completed within the time named in this contract for its completion, or within the time to which the completion of the contract may be extended by the Commission, or (in view of the necessity for special skill and ample financial resources in the prosecution of the work) if the contractor shall become insolvent or bankrupt or if his property or affairs shall be put in the hands of a receiver or receivers, then and in any of such cases.

May Take Charge of Work.

(1) The Commission may notify the Contractor, by a written notice, to discontinue all work or any part thereof under this contract, and thereupon the Contractor shall discontinue the work or such part thereof, and the Commission shall thereupon have the right to contract for the completion of the Works or such part thereof in the manner prescribed by law or to place such and so many persons as it may deem advisable, by contract or otherwise, to work and complete the work herein described or such part thereof, to take possession of and use any or all of the materials, plant, tools, equipment, supplies and property of every kind provided by the Contractor for the purpose of his work, and to procure other materials, plant, tools, equipment, supplies and property for the completion of the same, and to charge the expense of said labor, materials, plant, tools, equipment, supplies and property to the Contractor. The expense so charged shall be deducted and paid by the City out of such moneys as may be due or may at any time thereafter grow due to the Contractor under and by virtue of this contract; and the Interborough Company shall, upon the requirement of the Commission, deduct and pay to the City out of such moneys as may be due or may at any time thereafter grow due to the Contractor from it under and by virtue of this contract, the amount of such expense or such portion thereof as the Commission shall require, to be applied by the City to the payment of such expense, and such moneys so deducted and paid to the City shall be deemed to have been paid to the Contractor by the Interborough Company upon this contract. And in case such expense of completing the Works or such part thereof shall exceed the amount which would have been payable under this contract for the same work and materials if the same had been completed by the Contractor, he shall pay the amount of such excess with interest to the City; and in case such expense shall be less than the amount which would have been payable under this contract if the same had been completed by the Contractor, he shall forfeit all claim to the difference; and when any particular part of the work is being carried on by the Commission, by contract or otherwise, under the provisions of this Article, the Contractor shall continue the remainder of the work in conformity with the terms of this contract and in such manner as in no wise to hinder or interfere with other contractors of the Commission or with the persons or workmen employed, as above provided, by the Commission, by contract or otherwise, to do any part of the work, or to complete the same under the provisions of this Article. The Contractor shall also in any and every such case and in the case of any and every act, neglect, delay, fault or default of the Contractor, in addition to the liability above expressed, pay to the City as liquidated damages for any delay resulting therefrom in the construction and completion of said portion of said rapid transit railroad which the Contractor herein agrees to construct with its appurtenances the sum of three hundred dollars (\$300) for each and every day, except Sundays and legal holidays, of such delay, which sum is hereby agreed upon not as a penalty but as liquidated damages which the City will suffer by reason of such delay in the construction and completion of said railroad. And

Or Proceed Upon Bond.

(2) The City may also proceed as to the Commission shall seem proper upon the bond or other security in its possession. And

Or May Bring Suit.

(3) The City may also bring any suit or proceeding for specific performance or for injunction or to recover damages or to obtain any other relief or for any purpose proper under this contract.

Engineer's Certificate of Expense.

Article LXIII. In case the Commission shall by contract or otherwise complete the Works or any part thereof under the provisions of Article LXII, the Engineer, upon the completion of the Works or such part thereof or at any time thereafter upon demand in writing by any party hereto or from time to time during the course of the completion of the Works or such part thereof upon demand by the Commission, shall certify to the amount of the expense incurred by the City in the completion of the Works or such part thereof, and said certificate shall be final and conclusive and admissible in evidence against the Contractor in any litigation arising or growing out of this contract.

Remedies.

Article LXIV. The City may avail itself of each and every remedy herein specifically given to the City or now or hereafter existing at law or in equity or by statute, and each and every such remedy shall be in addition to every other remedy so specifically given or otherwise so existing and may be exercised from time to time and as often and in such order as may be deemed expedient by the Commission, and the exercise, or the beginning of the exercise, of one remedy shall not be deemed to be a waiver of the right to exercise, at the same time or thereafter, any other remedy, except that no two inconsistent remedies shall be exercised at the same time.

Chapter X.

MISCELLANEOUS PROVISIONS.

Changes in the Contract.

Article LXV. No correction or change in this contract shall be made except by written instrument duly authorized by the Commission and consented to by the Contractor and by the sureties upon his bond, and if any such correction or change affects the obligations of the Interborough Company hereunder, by the Interborough Company; but this provision shall not limit or affect the right to prescribe variations whether of construction or location of route as in this contract elsewhere provided.

Members of Commission not Liable.

Article LXVI. No claim shall be made by the Contractor against any member of the Commission or any officer or director of the Interborough Company personally under or by reason of this contract or of any of its articles or provisions.

Contractor Not to Assign, Sublet, etc.

Article LXVII. The Contractor shall not assign, transfer, convey, sublet or otherwise dispose of this contract or his right, title or interest in or to the same or any part thereof without the previous consent in writing of the Commission, and he shall not assign by power of attorney or otherwise any of the moneys to become due and payable under this contract unless by and with the like consent. If the Contractor shall without such previous written consent assign, transfer, convey, sublet or otherwise dispose of this contract or of his right, title or interest therein or any of the moneys to become due under this contract, to any other person, company or corporation, this contract may at the option of the Commission be revoked and annulled and the City and the Interborough Company shall thereupon be relieved and discharged from any and all liability and obligations growing out of the same to the Contractor and to his assignee or transferee; and no right under this contract or to any money to become due hereunder shall be asserted against the City or the Interborough Company in law or in equity by reason of any so-called assignment of this contract or any part thereof or of any moneys to grow due hereunder unless authorized as aforesaid by the written consent of the Commission; provided that nothing herein contained shall be construed to hinder, prevent or affect an assignment by the Contractor for the benefit of his creditors made pursuant to the statutes of the State of New York.

Provisions in Case Commission Ceases.

Article LXVIII. In case the Commission shall cease to exist, the Legislature may provide what public officer or officers shall exercise the powers and duties of the Commission under and by virtue of this contract; and in default of such provision, such powers and duties shall be deemed to be vested in the Mayor of the City. In case any officer or officers other than the Commission shall hereafter have the powers of the Commission or any of them, then the provisions of this contract shall be applicable to such officer or officers to the extent to which the powers of the Commission shall appertain to such officer or officers, and any official act or determination of such officer or officers or of this Commission shall be sufficient hereunder, anything herein to the contrary notwithstanding, if the same be done or had by lawful vote or resolution or in such manner as the Legislature may from time to time prescribe.

Labor Law.

Article LXIX. The Contractor agrees to comply with the provisions of the Labor Law, including section 3 thereof as re-enacted by chapter 36 of the Laws of 1909. The Contractor further agrees and stipulates that no laborer, workman or me-

chanic in the employ of the Contractor, sub-contractor or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be permitted or required to work more than eight hours in any one calendar day, except in cases of extraordinary emergency caused by fire, flood or danger to life or property; and further that the wages to be paid for a legal day's work as hereinbefore defined to all classes of such laborers, workmen or mechanics upon the work contemplated by this contract or upon any material to be used upon or in connection therewith, shall not be less than the prevailing rate for a day's work in the same trade or occupation in the Borough of the City, where the work hereby contemplated, about or in connection with which such labor is performed, is in its final or completed form to be situated, erected or used; and that each such laborer, workman or mechanic employed by the Contractor or by any sub-contractor or other person on, about or upon the work contemplated by this contract, shall receive such wages herein provided for. This contract shall be void and of no effect, unless the Contractor shall comply with the provisions of this section. In obedience to the requirements of section 14 of the Labor Law it is further provided that if the provisions of the said section 14 are not complied with, this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

Article LXX. It is the intent and understanding of the parties to this contract that each and every provision of law required to be inserted in this contract should be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is to be deemed to be inserted herein; and if, through mistake or otherwise, any such provision is not inserted or is not inserted in correct form, then the contract shall forthwith, upon the application of either party, be amended by such insertion so as to comply strictly with the law, and without prejudice to the rights of either party hereunder.

Provision in Case of Unlawful Provision.

Article LXXI. If this contract contains any unlawful provision not an essential part of the general structure of the contract and which shall not appear to have been a controlling or very material inducement to the making thereof the same shall be deemed of no effect, and shall upon the application of either party, be struck from the contract without affecting the binding force of the contract as it shall remain after omitting such provision.

Interborough Company a Party to Contract.

Article LXXII. The Interborough Company is a party to this contract solely for the purpose of paying out its contribution toward the cost of construction of the Railroad as provided in the said contract dated March 19, 1913, and the fact that it is a party to this contract with the City and the Contractor shall not deprive it of any rights, claims or remedies which as owner or lessee of any elevated railroad or abutting property or otherwise, it might otherwise possess or assert against the City or the Contractor.

Testimonium.

In Witness Whereof, this contract has been executed for The City of New York by the Public Service Commission for the First District under and by virtue of a resolution duly adopted by the Commission and the seal of the Commission has been hereto affixed and attested by its Secretary and these presents have been signed by its Chairman; and the Interborough Rapid Transit Company has caused its corporate seal to be hereto affixed and attested by its Secretary and these presents to be signed by its President; and the Contractor has * [hereunto set hand and seal] [caused corporate seal to be hereto affixed and these presents to be executed by proper officers] the day and year first above written.

THE CITY OF NEW YORK, by the PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

By, Chairman.

Attest:, Secretary.

INTERBOROUGH RAPID TRANSIT COMPANY,

By, President.

Attest:, Secretary.

Acknowledgment for Commission.

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

On the day of , 1914, before me personally appeared Edward E. McCall and Travis H. Whitney, to me known and known to me to be the said Edward E. McCall, the chairman, and the said Travis H. Whitney, the secretary of the Public Service Commission for the First District; and the said Edward E. McCall and Travis H. Whitney being by me duly sworn, did depose and say, each for himself and not the one for the other, the said Edward E. McCall, that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the chairman of the said Commission and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said Travis H. Whitney, that he resides in the Borough of Brooklyn, in the County of Kings, City and State of New York, that he is the secretary of the said Commission and that he subscribed his name thereto by like authority; and both the said Edward E. McCall and Travis H. Whitney that they know the seal of the said Commission and that one of the seals affixed to the foregoing contract is such seal and that the same was affixed to the foregoing contract by the authority of the said Commission and of a resolution duly adopted by the same.

Acknowledgment for Interborough Rapid Transit Company.

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

On the day of , 1914, before me personally appeared Theodore P. Shonts and H. M. Fisher, to me known and known to me to be the said Theodore P. Shonts, the President, and the said H. M. Fisher, the Secretary, of Interborough Rapid Transit Company, the corporation named in the foregoing contract, and they being by me duly sworn, did depose and say, each for himself and not the one for the other, the said Theodore P. Shonts, that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the President of the said Interborough Rapid Transit Company, and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said H. M. Fisher, that he resides in Plainfield, in the State of New Jersey, that he is the Secretary of the said Interborough Rapid Transit Company, and that he subscribed his name thereto by like authority; and both the said Theodore P. Shonts and H. M. Fisher that they know the seal of the said Interborough Rapid Transit Company, and that one of the seals affixed to the foregoing contract is such seal and that the same was affixed to the foregoing contract by the authority of the Board of Directors of Interborough Rapid Transit Company and of a resolution duly adopted by the same.

Acknowledgments for Contractor.

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

On this day of , 1914, before me personally came to me known and known to me to be the individual described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same.
State of New York, County of New York, ss.:

On this day of , 1914, before me personally appeared to me known, who, being by me first duly sworn, did depose and say: That he resides in , in the State of ; that he is of , the corporation described in and which executed the foregoing instrument; that he knows the corporate seal of said company; that one of the seals affixed to said contract is such corporate seal, and that it was affixed thereto by order of the Board of Directors of said company, and that he signed his name thereto by like authority.

Schedule of Securities.

(Note—If the Contractor upon the approval of the Commission, deposits securities in lieu of a bond, a description of such securities with their values shall be inserted below.)

(Form of Contractor's Bond; form of Contractor's Proposal; Affidavit of Verification and Index follow here.)

City of New York, Department of Finance, Comptroller's Office, October 29, 1914.

To the Board of Estimate and Apportionment:

Subject: Rapid Transit Construction Contract, Section 1, Routes 43 and 26 of the Seventh Avenue-Lexington Avenue-Steinway Tunnel Division, Manhattan.

Gentlemen—On October 9, 1914, the Public Service Commission for the First District transmitted for consent of this Board a proposed contract to be entered into

*If the contractor is an individual, use the words enclosed in the first bracket; if a corporation, use the words enclosed in the second bracket.

between The City of New York, the Interborough Rapid Transit Company, and the Rapid Transit Subway Construction Company, as contractor, for the construction of Section No. 1 of Routes Nos. 43 and 26 of the Seventh Avenue-Lexington Avenue and Steinway Tunnel Rapid Transit Railroads in the Borough of Manhattan (Park Avenue Connection and Steinway Tunnel Extension), at an estimated cost to the City of \$1,548,656.25.

The Commission requested this Board to prescribe the limit of \$1,548,656.25 to the amount of bonds to be made available to meet the requirements placed upon the City of the proposed contract, and to direct the Comptroller to issue bonds to said amount, such bonds to be charged against the appropriation of \$28,200,000 made by the Board on March 18, 1913, for the purpose of Contract No. 3.

The contract for these two sections has been awarded to the low bidder among five competitors. The estimated total of this contract is \$3,097,312.50, of which \$728,445 was bid for the Steinway Tunnel Extension, Section 1, Route 26, and \$2,368,867 for Section 1, Route 46, the Park Avenue connection and the shuttle spur for the existing subway.

The contract provides that this total estimated cost of \$3,097,312.50 shall be paid half and half by the City and the Interborough Rapid Transit Company, the latter's share, however not to exceed the sum of \$1,548,656.25.

Article XI of Contract No. 3 provides that:

"The fixation of the amount for which the lessee shall be liable under the construction contracts shall, so far as practicable, be so arranged that at all times the City's and the Lessee's share of the cost of construction of the railroad shall be substantially the same.

"* * * the Lessee * * * agrees that the Commission shall so fix the amount for which the Lessee shall be liable under the construction contracts as to bring its contribution * * * as rapidly as may be up to a level with that of the City."

The following summary has been prepared from data furnished by the Public Service Commission, assuming to show the relative obligations of the City and the Interborough Rapid Transit Company on the lines to be operated by the latter, up to but not including this contract:

The City	\$46,362,183 28
The Interborough Rapid Transit Company.....	39,538,592 06

Excess of City commitments over Interborough.....	\$6,823,591 22
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The demands anticipated to be made by the Commission on the Interborough for contributions outside the construction contracts, comprise prospective outlays incidental to the diagonal connection at 42nd Street; fee for Grand Union Hotel property; easement through the New York Central property and the cost of construction within the limits of New York Central property, an anticipated total expenditure of between four and five million dollars. Assuming the latter figures, the above stated excess will reduce to \$1,823,591.22.

The estimated cost of this proposed contract for Section 1, Routes 43 and 26, it is purposed to divide equally between the two accounts, which would then stand as follows:

The City	\$47,910,839 53
The Interborough	41,087,248 31

A subdivision of costs of this contract on a basis that would reduce the City excess below the figure noted seems undesirable in the opinion of the Commission in view of some uncertainty that exists with respect to the amount of the carrying and overhead charges to be included.

This contract provides for the construction as Section 1, Route 46, of four turnout tracks from the existing subway on Fourth Avenue in the neighborhood of about East 39th Street, carrying them under the old Grand Union Hotel property to the north line of East 42nd Street. A subsequent contract will provide for connecting this work with the Lexington Avenue line now under construction at East 43rd Street. The construction of two spur tracks connecting with the existing subway at Vanderbilt Avenue and running easterly along 42nd Street for a distance of about 300 feet, permitting a future shuttle construction service, also forms part of this contract section. The contract also includes, as Section 1, Route 26, the extension of the Steinway Tunnel line from a point about 100 feet east of Lexington Avenue to the west line of Vanderbilt Avenue. Of the existing Steinway Tunnel about 700 feet, including the loop at Park Avenue, is to be abandoned and rebuilt at a lower elevation and of sufficient width to provide a platform, with elevators near Park Avenue, extending easterly to a connection with the present platform between Third and Lexington Avenues.

Where the road crosses the former site of the Grand Union Hotel, about 15,000 square feet of subsurface area will be used for mezzanine and track platform purposes. Street entrances leading to the interior stairways to the mezzanine platform, are designed to lead from Park Avenue and from 42nd Street. Practically the entire subsurface of 42nd Street opposite this property is devoted to the mezzanine platform which connects with that to be used for shuttle train purposes to the west. Three elevators will serve the track level platform, 28 feet below the surface, and the Steinway Tunnel platform, some 40 feet deeper. The construction across the former site of the Grand Union Hotel has been designed with wall and column layouts sufficiently heavy to permit future building construction thereon.

I recommend the adoption of the attached resolution consenting to the contract award, limiting the amount of bonds available and authorizing and directing the Comptroller to issue the necessary corporate stock therefor. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of Section 37 of the Rapid Transit Act, being Chapter 4 of the Laws of 1891, as amended, and the provisions of Section 45 of the Greater New York Charter, and the requisition of the Public Service Commission for the First District, duly made by said Commission on October 9, 1914, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between The City of New York, acting by the Public Service Commission for the First District, the Interborough Rapid Transit Company and the Rapid Transit Subway Construction Company, as contractor, for the following purposes:

For the construction by the Rapid Transit Construction Company of Section No. 1, Routes Nos. 43 and 26, being that portion in the Borough of Manhattan of the Seventh Avenue-Lexington Avenue and the Steinway Tunnel Rapid Transit Railroads described as follows:

Section No. 1 of Route 43, beginning under Park Avenue, in the Borough of Manhattan, between East 38th and East 41st Streets, where suitable track connections can be made with the present Manhattan-Bronx Rapid Transit Railroad; thence running northerly under Park Avenue to East 41st Street; thence curving northeasterly under Park Avenue and East 41st Street to property recently acquired by the City; thence running northeasterly under said property and East 42nd Street to the northerly building line of East 42nd Street, between Lexington Avenue and Depew Place, as the latter formerly existed.

Section No. 1 of Route 26, beginning at a point under East 42nd Street, in the Borough of Manhattan, opposite the westerly building line of Vanderbilt Avenue and extending thence easterly under East 42nd Street to a point about one hundred (100) feet east of the easterly building line of Lexington Avenue.

Spur to existing Manhattan-Bronx Rapid Transit Railroad, beginning at a point under East 42nd Street, in the Borough of Manhattan, between Park and Vanderbilt Avenues, where suitable track connections can be made with the existing Manhattan-Bronx Rapid Transit Railroad; thence running easterly under East 42nd Street to a point about forty (40) feet east of the easterly building line of Park Avenue;

—at an estimated cost to the City of one million five hundred and forty-eight thousand six hundred and fifty-six dollars and twenty-five cents (\$1,548,656.25), being fifty (50) per cent. of the total estimated contract cost of three million ninety-seven thousand three hundred and twelve dollars and fifty cents (\$3,097,312.50). The liability of the Interborough Rapid Transit Company in the construction of Section No. 1 of Route 43, Section No. 1 of Route 26 and spur to existing Manhattan-Bronx Rapid Transit Railroad, hereinbefore described, will be limited to an amount equal to fifty (50) per centum of the estimated amount to be paid to the contractor under the contract; and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the limit to the amount of proceeds of corporate stock available to meet the requirements of the City's obligation under said contract shall be one million five hundred and forty-eight thousand six hundred and fifty-six dollars and twenty-five cents (\$1,548,656.25); and be it further

Resolved, That the Comptroller be and he is hereby authorized and directed to issue corporate stock of The City of New York to the amount of one million five hundred and forty-eight thousand six hundred and fifty-six dollars and twenty-five cents (\$1,548,656.25) at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the proceeds to the amount of the par value thereof to be applied to the purposes mentioned in the communication of the Public Service Commission for the First District to this Board dated October 9, 1914, and as specifically set forth in this resolution, said issue of corporate stock to be charged against the appropriation made by this Board on March 18, 1913, of twenty-eight million two hundred thousand dollars (\$28,200,000) for the purpose of carrying out the contract dated March 19, 1913, known as Contract No. 3.

Which was adopted by the following vote:

Affirmative—The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

Public Service Commission for the First District—Approval of Award of Contract to Smith, Hauser & MacIsaac, Inc., for the Construction of Section No. 2 of Route No. 48 of the Seventh Avenue-Lexington Avenue Rapid Transit Railroad and the Issue of Corporate Stock Therefor (Cal. No. 128).

The Secretary presented a report of the Comptroller recommending approval of the award of contract for the construction of Section No. 2 of route No. 48 of the Seventh Avenue-Lexington Avenue rapid transit railroad (beginning at a point under Beekman Street near William Street, and extending under William Street, etc., to a point opposite the easterly building line of Pearl Street, Manhattan) to Smith, Hauser & MacIsaac, Inc., also the authorization of corporate stock in the sum of \$1,127,335 to meet the requirements placed upon the City by the proposed contract.

(On September 25, 1914 (Cal. No. 42), the request of the Public Service Commission for approval of the award of the above contract and the authorization of corporate stock to meet the requirements thereof was referred to the Comptroller and to the Bureau of Contract Supervision.)

(On November 13, 1914 (Cal. No. 44), this matter was laid over for one week, under Rule 19.)

Messrs. Charles F. Noyes and Maurice Deutsch appeared in opposition to placing mains on trestles along the streets during construction work.

Which matter was referred to the Committee on Transit for report on the question of placing mains on trestles, and laid over until November 25, 1914.

Public Service Commission for the First District—Approval of Award of Contract to Frederick L. Cranford, Inc., for the Construction of Section No. 1 of Route No. 48 of the Seventh Avenue-Lexington Avenue Rapid Transit Railroad and Issue of Corporate Stock Therefor (Cal. No. 129).

The Secretary presented a report of the Comptroller recommending approval of the award of contract for the construction of Section No. 1 of route No. 48 of the Seventh Avenue-Lexington Avenue rapid transit railway (extending from Park Place near West Broadway, under Park Place and the United States Post Office building and Beekman Street to a point west of William Street, Manhattan) to Frederick L. Cranford, Inc., also the authorization of corporate stock in the sum of \$785,681.75 to meet the requirements placed upon the City by the proposed contract.

(On October 16, 1914 (Cal. No. 64), the request of the Public Service Commission for approval of the award of the above contract and the authorization of corporate stock to meet the requirements thereof was referred to the Comptroller and to the Bureau of Contract Supervision.)

(On November 13, 1914 (Cal. No. 43), this matter was laid over for one week, under Rule 19.)

Mr. Maurice Deutsch appeared in opposition to placing mains on trestles along the streets during construction work.

Which matter was referred to the Committee on Transit for report on the question of placing mains on trestles, and laid over until November 25, 1914.

Department of Education—Issue of Special Revenue Bonds and Modification of Schedules (Cal. No. 130).

(On October 30, 1914 (No. 80F), the resolution of the Board of Aldermen and resolution of the Board of Education in this matter were referred to the Comptroller.)

(On November 13, 1914 (Cal. No. 40), the report of the Comptroller thereon was laid over for one week, under Rule 19.)

The Secretary presented a resolution of the Board of Education in this matter adopted on August 12, 1914, and a resolution of the Board of Aldermen adopted on October 13, 1914, requesting an issue of special revenue bonds in the sum of \$5,047.88, the proceeds whereof to be used by the Department of Education for maintaining the Bureau of Attendance for the year 1914; and the following report of the Comptroller, Chairman, Committee on Education, recommending approval thereof and modification of schedules:

The City of New York, Department of Finance, Comptroller's Office, November 7, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On October 13, 1914, the Board of Aldermen adopted a resolution requesting special revenue bonds in the sum of \$5,047.88, to be used by the Department of Education for maintaining the Bureau of Attendance for the year 1914. In connection therewith I report as follows:

The Bureau of Attendance, Compulsory Education and Child Welfare, was created by chapter 479, Laws of 1914, under the jurisdiction of the Department of Education, and took over the duties, personnel, etc., of the Permanent Census Board, as well as all moneys appropriated to the latter, which were expended on May 1, 1914. Upon this Bureau now devolves not only the work formerly done by the Permanent Census Board, but also the enforcement of the Compulsory Education Law, which was heretofore under the supervision of the City Superintendent of Schools.

In its organization of the work now devolving upon it, the new Bureau has established thirteen district offices, each of which is in charge of a district supervisor. Funds are needed to equip those offices and for printing new forms and blanks for controlling the work as now organized. It should be noted in this connection that the Board of City Record, which supplied all the printing for the Permanent Census Board, declined to furnish any printing to the new Bureau after May 1, 1914, at which date the former Board was merged with the Department of Education.

The Board of Education originally requested the sum of \$13,615.13, in special revenue bonds for the Bureau of Attendance. A part of this money has subsequently been provided from other sources, thereby reducing the amount needed to \$5,047.88.

The adoption of the attached resolutions concurring in the resolution of the Board of Aldermen referred to and approving the schedules, as revised, is hereby recommended. Respectfully,

WM. A. PRENDERGAST, Comptroller, and Chairman, Committee on Education.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on October 13, 1914, requesting an issue of special revenue bonds in the sum of five thousand and forty-seven dollars and eighty-eight cents (\$5,047.88), the proceeds whereof to be used by the Board of Education for the maintenance of the Bureau of Attendance during the year 1914—all obligations contracted for hereunder to be incurred on or before December 31, 1914—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and he is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding five thousand and forty-seven dollars and eighty-eight cents (\$5,047.88) redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves schedules, as revised, for the Department of Education for the year 1914, as follows:

1082	Supplies, Office Supplies	\$7,232 88
	Tax Levy Allowance	\$3,645 00
	Special Revenue Bond Allowance	3,587 88
		\$7,232 88
1084	Purchase of Equipment	\$2,910 00
	Tax Levy Allowance	\$1,760 00
	Special Revenue Bond Allowance	1,150 00
		\$2,910 00
	Contract or Open Order Service—	
1087	General Plant Service	\$1,061 00
	Tax Levy Allowance	\$876 00
	Special Revenue Bond Allowance	185 00
		\$1,061 00
1088	Contingencies	\$225 00
	Tax Levy Allowance	\$100 00
	Special Revenue Bond Allowance	125 00
		\$225 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Public Charities—Issue of Special Revenue Bonds and Modification of Schedule (Cal. No. 131).

(On October 30, 1914 (No. 80G), the resolution of the Board of Aldermen in this matter was referred to the Comptroller.)

(On November 13, 1914 (Cal. No. 28), the report of the Comptroller thereon was laid over for one week under Rule 19.)

The Secretary presented a resolution of the Board of Aldermen adopted on October 13, 1914, requesting an issue of Special Revenue Bonds in the sum of \$2,500, the proceeds whereof to be used by the Department of Public Charities for the purpose of purchasing an automobile hearse; and the following report of the Comptroller recommending approval thereof and modification of schedule:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 7, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—At the meeting of the Board of Aldermen held October 13, 1914, the following resolution was adopted:

"Resolved, That, in pursuance of the provisions of subdivision 8 of Section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two thousand five hundred dollars (\$2,500), the proceeds whereof to be used by the Department of Public Charities for the purpose of purchasing an automobile hearse.

"All obligations contracted for hereunder to be incurred on or before December 31, 1914."

This resolution was returned by the Mayor on October 27, 1914, without his approval or disapproval thereof, and was referred to the Comptroller by the Board of Estimate and Apportionment on October 30, 1914.

An investigation made into this matter disclosed the following state of facts.

The City Morgue in Brooklyn was recently discontinued and the functions transferred to the morgue located in the grounds of the Kings County Hospital on Clarkson Street, Brooklyn. The Harlem Morgue and the Fordham Morgue will shortly be converted into temporary receiving stations only, and all bodies are to be transferred from these stations to the City Morgue at the foot of 26th Street and the East River, Manhattan.

On August 10, 1914, The City of New York transferred to the State of New York the land in Brooklyn, known as the Potter's Field, then being used by The City of New York for the interment of the unclaimed dead of the Boroughs of Brooklyn and Queens, and immediately subsequent to this transfer, the Department of Public Charities was notified to cease burying bodies in this Potter's Field.

In view of the conditions referred to, it now becomes necessary to make arrangements to transfer all unclaimed bodies in the Brooklyn Morgue to the Manhattan Morgue, and from thence to the Potter's Field on Harts Island, where the unclaimed bodies from the Boroughs of Manhattan and The Bronx are now being interred.

It is proposed to purchase, at an estimated cost of \$2,500, a specially constructed automobile hearse of a sufficient capacity to enable the transportation of bodies from the Harlem and Fordham Morgues to the Morgue at 26th Street, Manhattan, and also to transfer the unclaimed bodies from the Brooklyn division to the 26th Street Morgue, and it is for this purpose that the request for special revenue bonds is made.

It is intended to purchase a strongly built enclosed vehicle constructed on the lines of an undertaker's bus, with a capacity of at least eight caskets, the interior to be equipped with metal compartments and to contain metal coffins. Such an equipment is durable and sanitary and its estimated cost of \$2,500 is reasonable.

The proposed plan will undoubtedly solve in the most practical manner the problem now confronting the Department of Public Charities, and will eventually prove a saving as compared with any plan involving the use of horse drawn vehicles.

The adoption of the attached resolution approving and concurring in the resolution of the Board of Aldermen dated October 13, 1914, is therefore recommended. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen, dated October 13, 1914, requesting an issuance of special revenue bonds in the sum of two thousand five hundred dollars (\$2,500), the proceeds whereof to be used by the Department of Public Charities for the purpose of purchasing an automobile hearse, all obligations contracted thereunder to be incurred on or before December 31, 1914, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of Subdivision 8 of Section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York, to an amount not exceeding two thousand five hundred dollars (\$2,500), redeemable from the tax levy of the year succeeding the year of their issue. Any unexpended balance remaining after the purchase of the automobile hearse herein provided for shall not be available for any other purpose.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Public Charities, for the year 1914, as follows:

	Motor Vehicles and Equipment.	
2007	Institutional Care for Dependents	\$2,500 00
	Non-Institutional Care for Dependents	2,500 00
	Assigned for the purchase of an automobile hearse only.	
	Schedule Total	\$5,000 00
	Tax Levy Allowance	\$2,500 00
	Special Revenue Bond Allowance	2,500 00
		\$5,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Docks and Ferries—Acquisition of Property for Terminal Facilities Along the South Brooklyn Waterfront (Cal. No. 132).

The Secretary presented a communication from the Comptroller relating to the application of the First Construction Company by William H. Reynolds, President, requesting that the Board of Estimate and Apportionment consent to the modification of the option accepted by the Board on August 27, 1913.

The proposed modification would eliminate the property contained in the option described as Parcel No. 10:

"Commencing at the point of intersection of the northerly side of Sigourney Street with the easterly side of Columbia Street; running thence northerly to the southerly side of Bay Street; thence easterly along the southerly side of Bay Street to the westerly side of Hicks Street; thence southerly along the westerly side of Hicks Street to the northerly side of Sigourney Street; thence westerly along the northerly side of Sigourney Street to the point or place of beginning."

It is maintained by the First Construction Company that the foregoing described property was included in error in the option, but in consideration of the suggested elimination the First Construction Company proposes to transfer to the City all its right, title and interest in certain streets included in the option to which the First Construction Company claims title.

(On May 22, 1913, the Board adopted a resolution authorizing the acquisition by condemnation proceedings, of property in the Erie Basin section of the Borough of Brooklyn required as a classification yard for the proposed Municipal Terminal railroad and on August 28, 1913, this resolution was amended.)

(On November 13, 1914 (Cal. No. 85), this matter was laid over for one week.) Which was laid over until November 25, 1914.

Department of Finance—Status of the Fund for Street and Park Openings (Cal. No. 133).

The Secretary presented a communication from the Comptroller showing the status of the Fund for Street and Park Openings.

(On July 30, September 21 and 25, October 2, 16, 23 and 30, and November 6 and 13, 1914, this matter was laid over; on the latter date (Cal. No. 107) until this meeting.)

The matter was laid over until November 25, 1914.

Policy of the Board with Respect to Advancing Street Opening Proceedings (Cal. No. 134).

The Secretary presented a communication from the Chief Engineer of the Board, dated July 21, 1914, containing a list of proceedings for acquiring title to streets which should be authorized or advanced.

(On July 30, 1914 (Cal. No. 112), action was taken on several items in said communication and the matter was then laid over until September 21, 1914, as was also the question of general policy on Street Opening proceedings.)

(On September 21, 25, October 2, 16, 23, 30, and November 6 and 13, 1914, this matter was again laid over; on the latter date (Cal. No. 108) until this meeting.)

The matter was laid over until November 25, 1914.

MATTERS CONSIDERED BY UNANIMOUS CONSENT.

The following matters not on the Calendar for this day were considered by unanimous consent:

Woodbine Street, Between Knickerbocker Avenue and Irving Avenue, Borough of Brooklyn—Acquiring Title (No. 135).

On motion, the Secretary was directed to request the Corporation Counsel to defer until December 15, 1914, the presentation for confirmation of the report in this proceeding.

President, Borough of Manhattan; Department of Bridges—Transfer of Appropriation and Modification of Schedules (No. 136).

The Secretary presented a joint communication dated November 13, 1914, from the President of the Borough of Manhattan and the Commissioner of Bridges, requesting a transfer from accounts within the appropriation to the President of the Borough of Manhattan for the year 1914 to the appropriation to the Department of Bridges for the same year; and the following report of the Comptroller:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, November 20, 1914.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—In a joint communication dated November 13, 1914, the President of the Borough of Manhattan and the Commissioner of Bridges requested the modification of certain salary and wage schedules supporting appropriations made to their respective departments, involving a cash transfer of \$9,040 from the appropriations made to the office of the President of the Borough of Manhattan to appropriation accounts made to the Department of Bridges for the year 1914.

In reference to the modification requested, it is proposed that the lines as indicated in the accounts appropriated to the two departments referred to now reading:

OFFICE OF THE PRESIDENT OF THE BOROUGH OF MANHATTAN.

Personal Service, Wages, Temporary Employees, Care of Municipal Building.

388 Janitorial Service, Cleaning and Attendance—
Laborer at \$2.50 per day, 3,953 days..... \$9,882 50
Elevatorman at \$2.75 per day, 4,069 days..... 11,189 75
Elevator Constructor's Helper at \$3 per day, 400 days..... 1,200 00
Watchman at \$900 (36 months)..... 2,700 00

\$24,972 25

DEPARTMENT OF BRIDGES.

Personal Service, Wages, Temporary Employees, Care of Bridges.

2764 Tax Levy Force—
Bridge Mechanic, Housesmith or Bridgman and Riveter at \$5 per day (494 days)..... \$2,470 00
Wireman and Electrician at \$4.80 per day (402 days)..... 1,929 60
Painter or Bridge Painter at \$4 per day (3,217 days)..... 12,868 00
Watchman at \$2.50 per day (2 days)..... 5 00

17,272 60

Total..... \$42,244 85

—be changed to read as follows:

OFFICE OF THE PRESIDENT OF THE BOROUGH OF MANHATTAN.

Personal Service, Wages Temporary Employees.

388 Janitorial Service, Cleaning and Attendance—
Laborer at \$2.50 per day (3,952 days)..... \$9,880 00
Elevatorman at \$2.75 per day (1,000 days)..... 2,750 00
Elevator Constructor's Helper at \$3 per day (500 days)..... 1,500 00
Watchman at \$900 (24 months)..... 1,800 00
Unassigned balance..... 2 25

\$15,932 25

DEPARTMENT OF BRIDGES.

Personal Service, Wages, Temporary Employees, Care of Bridges.

2764 Tax Levy Force—
Bridge Mechanic, Housesmith or Bridgeman and Riveter at \$5 per day (997 days)..... \$4,985 00
Wireman or Electrician at \$4.80 per day (502 days)..... 2,409 60
Painter or Bridge Painter at \$4 per day (4,647 days)..... 18,588 00
Watchman at \$2.50 per day (132 days)..... 330 00

26,312 60

Total..... \$42,244 85

The purpose of the proposed changes is to transfer sufficient funds from the office of the President of the Borough of Manhattan to the Department of Bridges to cover the cost of labor required for repairing and painting the 155th Street viaduct leading to the Macomb's Dam Bridge over the Harlem River. This viaduct has not been painted for several years and is in need of immediate attention. The

paint has peeled and flaked off and in numerous places the iron work has become rusty which will necessitate the replacement of rivets and plates.

In the communication referred to in the opening paragraph of this report, it is stated in part as follows:

"The Department of Bridges has the necessary equipment to handle this work more efficiently than the Borough President. It is also believed that the work can be done more thoroughly by departmental labor than by contract, for the reason that a large amount of cleaning is necessary which could not be done under a contract system without excessive inspection charges.

"Funds for this work are available in the schedules of the Borough President for the reason that a full allowance was made in the budget for 1914 for operating the elevators in the Municipal Building and it was not until the middle of the year that the elevator system was turned over by the contractors. It is now intended to devote the funds thus saved to the very necessary work of repairing and painting these viaducts." (Including the viaduct referred to in this report.)

"It is hardly possible that the work can be completed this year, but whatever is done will correspondingly decrease the amount of money to be asked later for this purpose. * * *

"In view of the fact that only a few weeks remain in which these funds will be available, it is urgently requested that the modifications with the necessary amount of funds be adopted at the earliest possible moment."

In addition to the changes in the schedules supporting the accounts affected by the transfer of funds requested, the schedules, as revised, contemplate the following changes which are embodied in the statement shown in the first part of this report. These changes are as follows:

In account No. 388, Personal Service, Wages, Temporary Employees, Care of Municipal Buildings, Janitorial Service, the line reading "Elevator Constructor's Helper at \$3 per day (400 days), \$1,200," is to be changed to read "500 days, \$1,500," or an increase of \$300; and the line "Watchman at \$900 (36 months), \$2,700," is decreased by a similar amount.

The purpose of this change is to provide for the payment of wages to four Elevator Constructor's Helpers for the remainder of the year 1914. At the time of the appointment of two of these men it was intended that their compensation should be paid from a schedule line which was originally set up in an account under Personal Service, Wages, Regular Employees, but through an error the time of these men has since been charged to a temporary wage account, thereby reducing the amount available for temporary employees. It is not possible to correct this error by a transfer from the regular wage account, as such transfers are forbidden in the resolutions accompanying the 1914 budget.

In Account No. 2764, Wages, Temporary Employees, Care of Bridges, Tax Levy Force, the line reading "Wireman or Electrician, at \$4.80 per day (402 days), \$1,929.60," is made to read "502 days, \$2,409.60," or an increase of \$480; and the line reading "Painter or Bridge Painter, at \$4 per day (3,217 days), \$12,868," is decreased by a similar amount.

The purpose of this change is to permit the employment of additional Wiremen by the Department of Bridges, to readjust the electrical wiring system on the Third Avenue Bridge at 130th Street and Third Avenue, in conformity with the regulations of the Department of Water Supply, Gas and Electricity.

The line item changes in detail are as follows:

Account No.	Title.	Schedule Transfer.		Cash Transfer.	
		Increase.	Decrease.	Increase.	Decrease.
388	Laborer, at \$2.50 per day.....		\$2 50		\$2 50
	Elevatorman, at \$2.75 per day.....		8,439 75		8,437 50
	Elevator Constructor's Helper, at \$3 per day.....	300 00			
	Watchman, at \$900.....		900 00		600 00
	Unassigned balance.....	\$2 25			
2764	Bridge Mechanic, Housesmith or Bridgeman and Riveter, at \$5 per day.....	2,515 00		2,515 00	
	Wireman or Electrician, at \$4.80 per day.....	480 00			
	Painter or Bridge Painter, at \$4 per day.....	6,200 00	480 00	6,200 00	
	Watchman, at \$2.50 per day.....	325 00		325 00	
	Total Changes.....	\$9,822 25	\$9,822 25	\$9,040 00	\$9,040 00

It will be seen from the foregoing that these proposed changes necessitate the following transfer of funds being made:

FROM

PRESIDENT, BOROUGH OF MANHATTAN.

Personal Service, Wages, Temporary Employees, Care of Municipal Building.

388 Janitorial Service, Cleaning and Attendance..... \$9,040 00

TO

DEPARTMENT OF BRIDGES.

Personal Service, Wages, Temporary Employees, Care of Bridges.

2764 Tax Levy Force..... \$9,040 00

In addition to the foregoing changes, request was also made for the transfer of \$1,275 from "Account No. 370, President, Borough of Manhattan, Personal Service, Salaries Temporary Employees, Care of Public Buildings and Offices," to a new account to be known as "No. 2754½, Personal Service, Salaries Temporary Employees, Construction," and that a schedule be set up to provide for the employment of Foreman Painters at \$1,500 per annum for 10 1-5 months. This cannot be done, as it would involve the establishment of a new budget account. The request was accordingly made by a representative of the Borough President for the modification of the schedule supporting account "370, President, Borough of Manhattan, Personal Service, Salary Temporary Employees, Care of Buildings and Offices," by changing the line "Attendant at \$900 (100 months), \$7,500, to read "Attendant at \$900 (83 months), \$6,225," and adding the line "Foreman Painter, at \$1,500 (10 1-5 months), \$1,275." Unless the Bridge Department can furnish foremen charged to its own accounts, the Borough President desires this line changed so as to permit him to employ the necessary foremen.

No increase in the salary of any individual is involved in making these changes in either of the two departments concerned.

As the structure upon which the work is to be done is legally under the jurisdiction of the President of the Borough of Manhattan, the question has been raised as to the right of the Bridge Department to do the work. The approval of the transfer of funds and the modification of schedules requested is therefore recommended, subject to the approval of the Corporation Counsel as to the legality of the work described being performed by the labor forces under the jurisdiction of the Commissioner of Bridges. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of Section 237 of the Greater New York Charter, hereby approves the transfer of funds appropriated for the year 1914, as follows:

FROM

PRESIDENT OF THE BOROUGH OF MANHATTAN.

Personal Service, Wages Temporary Employees, Care of Municipal Building.

388 Janitorial Service, Cleaning and Attendance..... \$9,040 00

TO

DEPARTMENT OF BRIDGES.

Personal Service, Wages Temporary Employees, Care of Bridges.

2764 Tax Levy Force..... \$9,040 00

Provided, however, that the transfer of funds is to be effective only upon the approval of the Corporation Counsel as to the legality of the work of repairing and repainting the One Hundred and Fifty-fifth Street Viaduct, for which such transfer is made, being performed by the labor forces under the jurisdiction of the Commissioner of Bridges.

Which was adopted by the following vote:

Affirmative—The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the schedules, as revised, for the office of the President of the Borough of Manhattan and the Department of Bridges for the year 1914, as follows:

PRESIDENT, BOROUGH OF MANHATTAN.

Personal Services, Salaries Temporary Employees.

370 Care of Public Buildings and Offices—

Attendant, at \$900 (83 months).....	\$6,225 00
Attendant, at \$720 (48 months).....	2,880 00
Foreman Painter, at \$1,500 (10½ months).....	1,275 00

Schedule Total..... \$10,380 00

Personal Services, Wages Temporary Employees, Care of Municipal Building.

388 Janitorial Service, Cleaning and Attendance:

Laborer, at \$2.50 per day (3,952 days).....	\$9,880 00
Elevator Man, at \$2.75 per day (1,000 days).....	2,750 00
Elevator Constructor, at \$5.50 per day (200 days).....	1,100 00
Elevator Constructor's Helper, at \$3 per day (500 days).....	1,500 00
Assistant Foreman, at \$2.50 per day (250 days).....	625 00
Watchman, at \$900 (24 months).....	1,800 00
Unassigned balance.....	2 25

Schedule Total..... \$17,657 25

DEPARTMENT OF BRIDGES.

Personal Service, Wages Temporary Employees, Care of Bridges.

2764 Tax Levy Force—

Bridge Mechanic, Housesmith or Bridgeman and Riveter, at \$5 per day (997 days).....	\$4,985 00
Carpenter or Ship Carpenter at \$5 per day (14 days).....	70 00
Pavers, at \$5 per day (7 days).....	35 00
Wireman or Electrician, at \$4.80 per day (502 days).....	2,409 60
Machinist, at \$4.50 per day (37 days).....	166 50
Blacksmith, at \$4.50 per day (2 days).....	9 00
Painter or Bridge Painter, at \$4 per day (4,647 days).....	18,588 00
Rammer, at \$4 per day (2 days).....	8 00
Machinist's Helper, at \$3 per day (10 days).....	30 00
Blacksmith's Helper, at \$3 per day (4 days).....	12 00
Mechanic's Helper, at \$3 per day (10 days).....	30 00
Driver, at \$2.50 per day (44 days).....	110 00
Attendant, at \$2.50 per day (15 days).....	37 50
Watchman, at \$2.50 per day (132 days).....	330 00
Cleaner, at \$2 per day (42 days).....	84 00
Laborer, at \$3 per day (175 days).....	525 00
Laborer, at \$2.75 per day (37 days).....	101 75
Laborer, at \$2.50 per day (913 days).....	2,282 50
Laborer, at \$2 per day (4,495 days).....	8,990 00
Unassigned balance.....	4 40

Schedule Total..... \$38,808 25

Which was adopted by the following vote:

Affirmative—The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary was directed to send a copy of the report and the resolution to the Corporation Counsel, with a request for advice as to the legality of the work of repairing and painting the 155th Street Viaduct being performed by the labor force under the jurisdiction of the Commissioner of Bridges.

Department of Docks and Ferries—Construction of a Spur Connecting Ward's Stores with the Proposed Freight Railroad Along the South Brooklyn Water-front, Brooklyn (No. 137).

The Secretary presented a communication dated November 16, 1914, from Messrs. Carter, Ledyard & Milburn, attorneys for John Seeley Ward, owner of Ward's Stores, Brooklyn, requesting to be heard with regard to the construction of a spur connecting said property with the proposed freight railroad along the South Brooklyn water-front.

Which was referred to the Committee on Port and Terminal Facilities.

Fire Department—Appropriation for a Modern and Adequate Fire Alarm System (No. 138).

The Secretary presented a communication, dated November 17, 1914, from Robert D. Kohn, President, New York Chapter of the American Institute of Architects, containing resolution adopted by said Association endorsing the efforts of the Fire Commissioner to provide a modern and adequate fire alarm system for the City and recommending favorable action by the Board.

Which was referred to the Committee on Corporate Stock Budget.

President, Borough of Queens—Streets to Be Paved; Cost Chargeable to the Repaving Fund for Year 1915 (No. 139).

The Secretary presented a communication, dated November 17, 1914, from the President, Borough of Queens, submitting list of streets to be repaved, chargeable to the repaving fund for the year 1915.

Which was referred to the Committee on Corporate Stock Budget.

Department of Health—Issues of Corporate Stock (No. 140).

The Secretary presented a communication, dated November 18, 1914, from the Commissioner of Health, transmitting, in response to resolution adopted by the Board on October 30, 1914, requesting heads of departments to submit estimate of corporate stock requirements to October 31, 1915, corporate stock requirements for the Department of Health for the ensuing year.

The items contained in said estimate are listed in the order of their urgency and the Commissioner suggests, in view of the existing financial situation, that no action be taken this year on the items for the construction of a headquarters building for the Borough of Queens and the construction of buildings, etc., for increasing the capacity of the Otisville Sanatorium.

Which was referred to the Committee on Corporate Stock Budget.

New York Public Library—Issue of Corporate Stock (No. 141).

The Secretary presented a communication, dated November 18, 1914, from Cleveland H. Dodge, Chairman, Executive Committee, the Trustees of the New York Public Library, Astor, Lenox and Tilden Foundation, renewing request for an issue of \$10,000 corporate stock for an original stock of books for the Carnegie Branch Library at 457-459 West 40th Street.

In accordance with the resolution adopted by the Board on October 30, 1914, the Secretary of the Board returned the above request to the Trustees of the New York Public Library for review as to its present urgency, etc., and in response to said resolution it is now renewed.

Which was referred to the Committee on Corporate Stock Budget.

Board of Inebriety—Amendment of Issue of Corporate Stock (No. 142).

The Secretary presented a communication, dated November 19, 1914, from the President, Board of Inebriety, requesting that the resolution adopted by the Board on August 27, 1914 (Cal. No. 181), authorizing the issue of \$7,000 corporate stock "to provide means for the erection and equipment of a temporary building for the care of persons addicted to the use of drugs, including an artesian well, under the jurisdiction of the Board of Inebriety," be amended by eliminating therefrom the words "and equipment," also the words "including artesian well," in order that the appropriation may be used exclusively for the construction of the temporary building.

Which was referred to the Committee on Corporate Stock Budget.

Department of Parks, Borough of Brooklyn—Issues of Corporate Stock (No. 143).

The Secretary presented a communication, dated November 19, 1914, from the Commissioner of Parks, Borough of Brooklyn, transmitting, in response to resolution adopted by the Board on October 30, 1914, requesting the heads of departments

to submit revised estimates of corporate stock requirements up to October 31, 1915, estimate of the corporate stock requirements for the Department of Parks for said period.

The items contained in said estimate are enumerated in the order of their urgency.

Which was referred to the Committee on Corporate Stock Budget.

President, Borough of Richmond—Issue of Corporate Stock (No. 144).

The Secretary presented a communication, dated November 18, 1914, from the President, Borough of Richmond, in response to resolution adopted by the Board on October 30, 1914, requesting heads of departments to submit revised estimate of corporate stock requirements for the ensuing year and stating that the request for the issue of \$3,975 for engineering work in connection with the elimination of grade crossings (returned in accordance with the above resolution), the Borough President now withdraws but renews the request for an appropriation of \$100,000 for the repaving of Richmond Terrace, which item is to be included in the request for repaving money for 1915, to be submitted at a subsequent date.

Which was referred to the Committee on Corporate Stock Budget.

President, Borough of The Bronx—Establishment of Grade of Position of Engineer Inspector, Architectural (No. 145).

The Secretary presented a communication, dated November 17, 1914, from the President, Borough of The Bronx, requesting the establishment in the Bureau of Buildings, Borough of The Bronx, of the position, Engineer Inspector, Architectural, at \$1,800 per annum, for one incumbent.

Which was referred to the Committee on Salaries and Grades.

Department of Docks and Ferries—Retirement of James Casey, Ship Caulker (No. 146).

The Secretary presented a communication, dated November 17, 1914, from the Commissioner of Docks, requesting the retirement, pursuant to Chapter 669 of the laws of 1911, as amended, of James Casey, a Ship Caulker in the Department of Docks and Ferries.

Which was referred to the Committee on Salaries and Grades.

Department of Bridges—Appropriation from Revenues (No. 147).

The Secretary presented a communication, dated November 17, 1914, from the Commissioner of Bridges, requesting that an additional appropriation of \$10,824.51 be made from the revenues of the Brooklyn Bridge and an additional appropriation of \$13,121.16 from the revenues of the Williamsburg Bridge to provide for the operation and maintenance of these two bridges to December 31, 1914.

Which was referred to the Comptroller.

Police Department—Authority to Destroy Certain Records and Papers (No. 148).

The Secretary presented a communication, dated November 17, 1914, from the Police Commissioner, requesting authority, pursuant to Section 1545-A of the Charter, to destroy certain records and papers deemed to be useless and submitting certificate of the Corporation Counsel certifying that the destruction of these papers will in no wise affect the interest of the City.

Which was referred to the Comptroller.

Department of Water Supply, Gas and Electricity—Authority to Advertise for Lighting Contracts for Manhattan and The Bronx for Year 1915 (No. 149).

The Secretary presented a communication, dated November 19, 1914, from the Commissioner of Water Supply, Gas and Electricity, requesting authority to advertise for lighting contracts for the year 1915 in the district comprising the Boroughs of Manhattan and The Bronx taken together.

Which was referred to the Comptroller.

Brooklyn Public Library; Department of Education—Enlarging the Ridgewood Branch of Library (No. 150).

The Secretary presented a communication, dated November 16, 1914, from W. S. Mills, Principal of Public School No. 75, Brooklyn, suggesting the enlarging of the Ridgewood Branch of the Brooklyn Public Library by making use of the available plot on the Bushwick High School ground.

Which was referred to the Board of Trustees of the Brooklyn Public Library for report to the Board.

Street System Within the Territory Bounded by Brooklyn Borough Line, Ashland Street, Benedict Avenue, Ferriss Street, Diamond Street, Ashland Street, Waterbury Street, Emerson Street, Freedom Avenue, Ferris Place, Park Avenue and Jamaica Avenue, Borough of Queens—Modification of (No. 151).

(On October 23, 1914 (Cal. No. 8) a public hearing in the matter of changing the map or plan of The City of New York by modifying the street plan for this territory was held and at the conclusion thereof the matter was referred to the Committee on the City Plan.)

The Secretary presented the following communication from the President of the Borough of Queens:

The City of New York, Office of the President of the Borough of Queens, Long Island City, November 17, 1914.

Board of Estimate and Apportionment:

Gentlemen—President Connolly desires me to request that your Board return to this office the following mentioned map, in order that the changes as suggested by the Committee on City Plan may be carried out:

Map showing a change in the Street System heretofore laid out within the territory bounded by Brooklyn Borough Line; Ashland Street, Benedict Avenue, Ferriss Street, Diamond Street, Ashland Street, Waterbury Street, Emerson Street, Freedom Avenue, Ferris Place, Park Avenue and Jamaica Avenue, in the Fourth Ward.

This map was forwarded to your Board for approval on May 11, 1914.

Yours respectfully, HUGH HALL, Secretary to the President.

The Secretary was directed to return the map to the President of the Borough of Queens for revision.

On motion, the Board adjourned to meet on Wednesday, November 25, 1914, at 10.30 o'clock a. m. JOSEPH HAAG, Secretary.

DEPARTMENT OF FINANCE.

Office of the City Chamberlain, New York, November 11, 1914.

Hon. JOHN PURROY MITCHEL, Mayor:

Sir—In pursuance of Section 196, Chapter 466 of the Laws of 1901, I have the honor to present herewith a report to October 31, 1914, of all moneys received by me, and the amount of all warrants paid by me since October 24, 1914, and the amount remaining to the credit of the City on October 31, 1914.

HENRY BRUERE, Chamberlain.

The City of New York, in Account with Henry Bruere, Chamberlain, During the Week Ending October 31st, 1914.

October 24, 1914, Balance..... \$61,609,193 45

Taxes, Manhattan—Rec. Taxes.....	\$1,031,970 55
Taxes, Bronx—Rec. Taxes.....	182,530 34
Taxes, Brooklyn—Rec. Taxes.....	456,936 73
Taxes, Queens—Rec. Taxes.....	161,193 04
Taxes, Richmond—Rec. Taxes.....	31,578 62
Water Meter Fund, Brooklyn—Rec. Taxes.....	10 73
Water Meter Fund, Queens—Rec. Taxes.....	5 00
Water Rents, Brooklyn—Rec. Taxes.....	2,035 60
Water Rents, Queens—Rec. Taxes.....	979 80
Ar. Taxes, 1899, Etc., Manhattan—Coll. Assts.....	\$64,811 91
Ar. Taxes, 1899, Etc., Bronx—Coll. Assts.....	15,649 64
Ar. Taxes, 1899, Etc., Brooklyn—Coll. Assts.....	43,807 47
Ar. Taxes, 1899, Etc., Queens—Coll. Assts.....	37,055 51
Ar. Taxes, 1899, Etc., Richmond—Coll. Assts.....	3,249 68
	164,574 21

Ca.	
St. Impt. Fund, Jan. 1, 1898, Man.—Coll. Assts.	\$5,943 99
St. Impt. Fund, Jan. 1, 1898, Bronx—Coll. Assts.	29,838 57
St. Impt. Fund, Jan. 1, 1898, Bkn.—Coll. Assts.	54,979 33
St. Impt. Fund, Jan. 1, 1898, Qns.—Coll. Assts.	41,718 52
St. Impt. Fund, Jan. 1, 1898, Rich.—Coll. Assts.	3,130 11
Fd. St. and Park Openings, Man.—Coll. Assts.	\$2,033 55
Fd. St. and Park Openings, Bronx—Coll. Assts.	12,649 79
Fd. St. and Park Openings, Bkn.—Coll. Assts.	8,480 22
Fd. St. and Park Openings, Qns.—Coll. Assts.	28,119 66
Fd. St. and Park Openings, Rich.—Coll. Assts.	950 24
Water Meter Fund No. 2, Man.—Coll. Assts.	52,233 46
Wmsbridge Sewer Fund, Bronx—Coll. Assts.	91 33
Receipts and Exps. Tax Sales, Bx.—Coll. Assts.	38 22
Receipts and Exps. Tax Sales, Bkn.—Coll. Assts.	7 50
Prin. and Int. 26th Wd. Bds., Bkn.—Coll. Assts.	62 00
Sewer Assts., 29th Wd., Inst., Bkn.—Coll. Assts.	851 31
Opening, Etc., Assts., 31st Wd., Inst., Bkn.—Coll. Assts.	3 68
Flatbush Ave. Impt., 29th Wd., Bkn.—Coll. Assts.	337 51
Opening, Etc., Bedford Ave., Bkn.—Coll. Assts.	2 08
Water Meter Fund, 1898, Etc., Bkn.—Coll. Assts.	42 41
Ar. Water Rents, 1898, Etc., Bkn.—Coll. Assts.	11 60
Int. Water Rents, 1898, Etc., Bkn.—Coll. Assts.	1,367 25
Receipts and Exps. Tax Sales, Qns.—Coll. Assts.	216 56
Long Is. City, Water Rents, Qns.—Coll. Assts.	169 50
Vill. Coll. Pt., Water Rents, Qns.—Coll. Assts.	35 75
Vill. Coll. Pt., Int. Water Rents, Qns.—Coll. Assts.	248 24
Vill. Whitestone, Water Rents, Qns.—Coll. Assts.	101 57
Vill. Whitestone, Int. Water Rents, Qns.—Coll. Assts.	17 61
Vill. Bayside, Water Rents, Qns.—Coll. Assts.	5 46
Vill. Bayside, Int. Water Rents, Qns.—Coll. Assts.	25 87
Vill. Flushing, Water Rents, Qns.—Coll. Assts.	8 13
Vill. Flushing, Int. Water Rents, Qns.—Coll. Assts.	40 31
Water Meter Fund, Queens—Coll. Assts.	11 50
Receipts and Exps. Tax Sales, Rich.—Coll. Assts.	25 03
Ar. Taxes, 1898, Etc., Man. and Bronx—Coll. Assts.	7 50
St. Impt. Fd., June 15, 1886, M. and Bx.—Coll. Assts.	19 14
Receipts and Exps. Tax Sales, M. and Bx.—Coll. Assts.	9 27
26th Wd. Main Sewer, Inst., Brooklyn—Coll. Assts.	6 00
Local Impt., Late Town New Utrecht—Coll. Assts.	31 71
Ar. Taxes, 1897, Etc., Queens—Coll. Assts.	282 16
General Impt. Commn., Inst., Qns.—Coll. Assts.	305 28
Int. General Impt. Commn., Inst., Qns.—Coll. Assts.	27 01
General Impt. Commn., Full Paymt., Qns.—Coll. Assts.	8 35
Assts. Local Impt., Various Vill., Qns.—Coll. Assts.	11 31
Int. Assts. Local Impt., Various Vill., Qns.—Coll. Assts.	5 15
Ar. Taxes, 1897, Etc., Richmond—Coll. Assts.	3 26
Asst. Local Impt., New Brighton, Rich.—Coll. Assts.	139 83
Int. on Assessments, Richmond—Coll. Assts.	30 26
Brooklyn Bridge Revenue, 1914—Kracke.	32 69
Brooklyn Bridge, Maint. and Labor, 1914—Kracke.	6,040 78
Wmsbridge Bridge Revenue, 1914—Kracke.	364 11
Water Meter Fund, Brooklyn—Williams.	3,982 95
Water Revenue, Brooklyn—Williams.	87 60
Water Rents, Brooklyn—Williams.	526 64
Water Rents, Queens—Williams.	26,582 55
Water Rents, Queens—Williams.	6,840 17
Reimbursement by Railway Companies for Repaving Streets Between Tracks—	
Bronx—Mathewson	\$61,073 00
Brooklyn—Pounds	67 31
Queens—Connolly	5,237 06
New Water Supply of The City of N. Y.—Buncke.	66,377 37
Unclaimed Salaries and Wages—Timin.	656 06
Dept. St. Cleaning Pension Fd.—Fetherston.	928 35
S. 560, Dept. Parks, Brooklyn, Planting Trees—Ingersoll.	833 59
S. 75, Maintenance, Etc., Parks, Bkn. Hgts.—Ingersoll.	760 00
S. 102C, Restoring and Repaving, Dept. Parks, Bkn. and Qns.—Ingersoll.	25 00
S. 70, Cons. of Private Sewers, Queens—Connolly.	360 00
Fd. for Topographical Bureau, Qns.—Connolly.	90 00
Forfeited Recognizances, Kings Co.—Cropsey.	7 30
Restoring and Repaving, Manhattan—Marks.	1,615 00
Restoring and Repaving, Bronx—Mathewson.	6,082 58
Restoring and Repaving, Brooklyn—Pounds.	884 47
Restoring and Repaving, Queens—Connolly.	2,762 20
Restoring and Repaving, Richmond—McCormack.	1,115 00
Excise Taxes, Kings County—Kelly.	339 14
Excise Taxes, Richmond County—Murphy.	\$3,350 00
Intestate Estates, New York Co.—Hoes.	13 75
Water Meter Fund No. 2, Man.—Williams.	3,363 75
Sale of City Property—Goodacre.	568 52
Suspense Account, Sales of Real Estate by Public Service Commn.—Whitney.	28 45
C. C. M. 301, Rapid Transit Cons. Fd.—Compr.	9 06
C. C. M. 401, Rapid Transit Cons. Fd.—Compr.	1,196 67
Rapid Transit Railroad Rentals, M. and Bx.—Goodacre.	1,800 00
Rapid Transit Railroad Rentals, Bkn. and Man.—Goodacre.	1,800 00
Restoring and Repaving—Compr.	412,525 17
Dept. Education, Suspense Acct.—Cook.	50,262 10
Croton Water Rents, Refunding Acct., C. S. Fd.	1 05
T. 37A, Supreme Court, 1st Dept., Retirement Fd.—Compr.	215 20
Fines and Penalties—	132 68
Court of Special Sessions, Bx.—Cullen	562 79
Court of Special Sessions, Qns.—Ollendorf.	
First Dist. Mag. Court, Rich.—Casey.	\$505 00
R. D. B. 2, Municipal Garage—Kracke.	25 00
R. F. M. 25F, Dept. Finance—Compr.	11 00
R. D. W. 17A, Dept. W. S. G. and E.—Williams.	
Assessment Bonds of 1914, 3 Per Cent., C. S. Fd.	541 00
Special Revenue Bonds, 1914, 3 Per Cent., C. S. Fd.	822 77
2813, 1914, Dept. Docks and Ferries—Smith.	12 50
2804, 1914, Dept. Docks and Ferries—Smith.	1 13
2862, 1914, Dept. Docks and Ferries—Smith.	3,000,000 00
850, 1914, Dept. Education—Cook.	350,000 00
3422, 1913, Dept. Education—Compr.	9 25
1703, 1914, Fire Dept.—Compr.	45 00
3010, 1914, Interest on the City Debt—Compr.	835 81
460, 1914, Pres., Bor. Bronx—Mathewson.	5 20
481, 1914, Pres., Bor. Bronx—Mathewson.	3,740 00
GENERAL FUND.	4 27
Int. Taxes, Man.—Rec. Taxes.	595 82
Int. Taxes, Bronx—Rec. Taxes.	1 85
Int. Taxes, Bkn.—Rec. Taxes.	1 00
Int. Taxes, Qns.—Rec. Taxes.	
Int. Taxes, Rich.—Rec. Taxes.	\$12,182 27
Water Rents, Queens—Rec. Taxes.	145 98
Water Rents, Richmond—Rec. Taxes.	125 28
Int. Taxes, 1899, Etc.—	
Manhattan—Coll. Assts.	\$6,833 11
Bronx—Coll. Assts.	2,277 78
Brooklyn—Coll. Assts.	5,316 04
Queens—Coll. Assts.	5,702 57
Richmond—Coll. Assts.	481 76
Int. Assts., St. Impt. Fund—	20,611 26
Manhattan—Coll. Assts.	\$584 79
Bronx—Coll. Assts.	2,435 07
Brooklyn—Coll. Assts.	3,954 76
Queens—Coll. Assts.	3,491 19
Richmond—Coll. Assts.	294 55
Int. Assts., St. and Park Openings—	10,760 36
Manhattan—Coll. Assts.	\$204 88
Bronx—Coll. Assts.	1,314 98
Brooklyn—Coll. Assts.	1,147 38
Queens—Coll. Assts.	1,656 53
Richmond—Coll. Assts.	82 72
Int. Water Meter Fund No. 2, Man.—Coll. Assts.	4,406 49
Int. Tax Sale Lien Receivable, Bx.—Coll. Assts.	38 80
Subpoenas, Fees, Bronx—Coll. Assts.	43 71
Int. Prin. and Int. 26th Wd. Bds., Bkn.—Coll. Assts.	2 00
Int. Assessments, Brooklyn—Coll. Assts.	122 30
Int. Opening, Etc., Bedford Ave., Bkn.—Coll. Assts.	41 59
Int. Water Meter Fund, Bkn.—Coll. Assts.	2 96
Subpoenas, Fees, Bkn.—Coll. Assts.	1 22
Vill. Flushing, Water Rents, Queens—Coll. Assts.	1 00
Vill. Flushing, Int. Water Rents, Queens—Coll. Assts.	267 17
Int. Water Meter Fund, Queens—Coll. Assts.	75 80
Fees for Searches, Queens—Coll. Assts.	3 06
Ar. Water Rents, Richmond—Coll. Assts.	25 00
Int. Water Rents, Richmond—Coll. Assts.	122 71
Int. Ar. Taxes, Man. and Bx.—Coll. Assts.	21 18
Int. Assts., St. Impt. Fund, M. and Bx.—Coll. Assts.	8 61
Int. St. and Park Openings, M. and Bx.—Coll. Assts.	11 97
Towns of Westchester, Taxes—Coll. Assts.	20 14
Towns of Westchester, Int. Taxes—Coll. Assts.	14 64
Int. Assts., Brooklyn—Coll. Assts.	20 62
Int. Ar. Taxes, 1897, Etc., Queens—Coll. Assts.	46 16
Chamberlain's Comms.—Bruere	292 73
Corporation Counsel, Costs—O'Reilly.	1,268 18
	91 25

Ca.	
Dept. Bridges—Kracke	11 85
Dept. Correction—Davis	317 25
Dept. Education—Cook	11 07
Dept. Finance, Coll. City Rev.—Goodacre.	149,525 36
Dept. Finance, Miscellaneous—Compr.	496 12
Dept. Parks, Brooklyn—Ingersoll.	1,883 00
Dept. Parks, Queens—Weier	21 00
Dept. W. S. G. and E. Man.—Williams.	722 84
Dept. W. S. G. and E. Bronx—Williams.	131 01
Licenses—Cashman	545 00
Pres., Bor. Manhattan—Marks	160 01
Pres., Bor. Bronx—Mathewson	121 96
Pres., Bor. Brooklyn—Pounds	24 40
Pres., Bor. Brooklyn, Bur. Sewers—Pounds.	879 24
Pres., Bor. Brooklyn, Supt. Bldgs.—Pounds.	7 15
Pres., Bor. Queens—Connolly	424 00
Pres., Bor. Richmond—McCormack	70 50
Public Service Commn.—Whitney	553 53
Sundry Licenses, Man. and Bx.—Bell	2,819 75
Sundry Licenses, Brooklyn—Bell	852 00
Sundry Licenses, Queens—Bell	106 50
Sundry Licenses, Richmond—Bell	36 50
Court of General Sessions—Carroll	5 00
N. Y. State Board of Pharmacy—Steiner	22 00
District Attorney, Kings County—Cropsey	221 59
Public Administrator, N. Y. Co.—Hoes	687 62
Water Rents, Queens—Williams	796 69
Water Rents, Richmond—Williams	2,657 12
	214,884 50
	6,395,529 75
Balance, October 31st, 1914.	\$68,004,723 20
	\$61,537,621 02
Dr.	
REVENUE BOND FUND ACCOUNTS.	
Armory Board	\$1,984 00
Expenses of Reception of Bodies of Sailors and Marines from Vera Cruz	180 44
Bd. of Aldermen and City Clerk, Increase in Budget Item 2, 1914.	497 50
Expenses of the Panama Pacific Exposition	26 75
Bd. of City Record, Printing and Supplies for Bronx Co., 1914.	8 60
Dept. Public Charities, Deficiency in Budget Items, 1914.	2,657 00
County Clerk, Queens County, Salaries and Supplies for Draftsmen, 1914	100 00
Claims	7,258 23
Public Service Commn., 1st District, N. Y., Exps. of 1914.	219,115 74
Bd. of Elections, Deficiency in Appropriation, 1914.	1,770 00
County Clerk, Bronx County, 1914.	1,635 84
Public Administrator, Bronx County, Deficiency in Budget Items, 1914	320 00
Brooklyn Parkway Commn., Salaries, Equipment, Material and Supplies, 1914	956 26
Bd. of Coroners, Bronx, 1914.	90 00
Supreme Court, Second Dept., Deficiency in Budget Item 3467, 1914.	841 67
Surrogates' Court, New York County, Increase in Salary of Superintendent of Supplies, 1914.	12 50
Surrogates, Queens County, Moving Furniture and Records.	310 00
Supreme Court, 1st Dept., Appellate Division, Increase in Salaries, 1914	58 32
Court of General Sessions, Stenographers' Fees for Minutes of Trials and Appeals, 1914.	561 00
County Court, Bronx County, 1914.	1,089 30
Surrogate's Court, Bronx County, 1914.	1,174 98
District Attorney, New York County, Deficiency in Budget Items, 1914	475 00
District Attorney, New York County, Special Expenses in Connection with the Prosecution of Henry Siegel et al.	347 84
District Attorney, Queens County, Deficiency in Budget Item 3542, 1914	42 00
District Attorney, Richmond County, Deficiency in Budget Items, 1914	562 46
District Attorney, Bronx County, 1914.	2,985 42
Municipal Garage, Maintenance and Supplies.	928 36
Dept. Docks and Ferries, Repairing Dock at Foot of West 96th Street, 1914	5,511 78
Dept. Education, Expenses of Study of Conditions Incidental to the Location of Schools	78 57
Dept. Education, Compromise with Nathalie Boniface, 1914.	50 00
Dept. Education, Increased Compensation of Electricians.	45 00
Dept. Education, Connecting Buildings with the Underground Fire Alarm System, Brooklyn	135 00
Dept. Parks, Queens, 1914.	547 50
Dept. Taxes and Assessments, Allowances for Budget Items, 1914.	2,702 27
Payment to Defender Hose Company No. 1, Former Village of Eastchester from 1-31-12 to 5-1-14.	421 13
Fire Dept., Deficiency in Relief Fund, 1914.	76,872 11
Expenses of Removal to and Equipment of New Quarters.	200 55
Judgments	3,563 53
Payment of County Charges and Expenses	109 50
Payment of Premium on Bonds of Municipal Officers, Etc.	85 50
Commitment of Insane Persons, Deficiency in Budget Item 2610, 1914	100 00
Brooklyn Public Library, Operation of Brownsville and Eastern Parkway Branches, 1914	995 00
Law Library, Bronx County, Salary of Librarian to Dec. 31, 1914.	174 16
Experimental Sewerage Purification Work at 26th Wd. Plant, Brooklyn	285 83
Unsafe Buildings, Brooklyn, Section 157 of the Building Code.	13 92
Pres., Bor. Queens	2,877 69
Pres., Bor. Bronx, Salaries and Wages in Bureau of Public Buildings and Offices	34 50
Pres., Bor. Bronx	509 90
Register, Bronx County, 1914.	2,687 76
Sheriff, Kings County, 1914.	41 67
Sheriff, Queens County, 1914.	2,768 30
Tenement House Dept., Purchase of Equipment for New Quarters, 1914	290 37
CORPORATE STOCK ACCOUNTS.	
Armory Fund	1,790 22
New Bellevue Hosp., Cons. of	35,986 66
New Harlem Hosp., Furnishing and Equipping for Service, Etc.	218 62
Dept. Public Charities	166 94
Sea View Hosp., Staten Island	789 80
Abolishing Grade Crossings of Highways and Railroads, Brooklyn.	50,000 00
New Water Supply of The City of New York.	275,847 60
Change of Grade Damage Commn., 23d and 24th Wards.	552 04
Expenses of the Comms. of Estimate and Appraisal for Clerks, Etc.	283 16
Brooklyn Parkway Commn., Preparation of Maps, Etc.	4,501 12
Court House Board of New York County, Expenses of Plan Competitions, Etc.	2 02
Rapid Transit Cons. Fund, Brooklyn-Manhattan.	65 00
Rapid Transit Cons. Fund, Lexington Avenue Route.	116,893 79
Rapid Transit Cons. Fund, Contract No. 3, Interest on Bds.	10,788 27
Rapid Transit Cons. Fund, Contract No. 4, Track Material.	3,335 96
Rapid Transit Cons. Fund, Broadway-59th Street Route.	118,675 61
College of The City of New York.	200 00
Brooklyn Bridge, Reconstructing Westerly or Manhattan Terminal.	5,861 51
Municipal Building, Cons. of Manhattan Terminal of the New York and Brooklyn Bridge.	263 90
Williamsburgh Bridge, Strengthening Structure.	14 85
Manhattan Bridge, Brooklyn Terminal, Subway, Roadway and Track Work, Etc.	22,712 24
Dept. Bridges, Salaries and Wages of Engrg. Cons. Force.	9,859 88
Dept. Bridges, Supp. and Materials, Etc., for Engrg. Cons. Force.	128 61
Dept. Docks and Ferries.	22,365 65
Athletic Fields Under Jurisdiction of the Bd. of Educ.	174 00
Dept. Education, Building Bureau.	661 63
School Buildings, Fire Protection.	94 00
School Building Fund, All Boroughs, Portable Buildings.	1,327 50
School Building Fund, Interior Cons. and Equipment.	42 00
School Sites	1,694 70
School Buildings, Cons. and Equipment.	96,403 18
School Building Site, Cons. and Equipment.	5,453 82
Dept. Health, Building Fund.	7,199 05
Dept. Health, Cons. of Dormitory at Willard Parker Hosp.	1,733 20
American Museum of Natural History.	1,003 80
Dept. Parks, Manhattan and Richmond.	52 15
Impt. and Cons. of Parks, Parkways, Etc., Manhattan & Rich.	225 81
Impt. of Central Park.	8 87
Impt. of Parks, Parkways and Drives, Chapter 11, Laws of 1894.	377 94
Impt. of Playgrounds Throughout the City.	125 00
Metropolitan Museum of Art.	719 13
Parks, Dept. of, Manhattan and Richmond, Reconstruction of Bulkheads, Easterly Wall of Speedway, Between 155th Street and Dyckman Street	814 24
Repaving Riverside Drive from 113th Street to Viaduct.	311 60
Dept. Parks, Brooklyn and Queens.	7,763 76
Impt. of Parks, Parkways and Drives, Brooklyn and Queens.	67 71
Brooklyn Institute of Arts and Sciences, Brooklyn.	27,865 17
Shore Road between First Avenue and Ft. Hamilton, Brooklyn, Completion of	
Dept. Parks, Brooklyn	291 66
Botanical Garden in Bronx Park.	131 25
Dept. Parks, Bronx.	372 88
New York Zoological Park.	212 00
Parks, Dept. of, Bronx Zoological Garden, Planting Concourse, Grading New Walks, Etc.	395 00
Dept. Street Cleaning, Cons. of Dumping Station at Foot of Stanton Street and East River.	32 50
Cons. and Establishment of a High Pressure Water System, Etc., Manhattan	136 82
Extension of High Pressure Water Service North of 23rd Street, Manhattan	1,322 47
	40 59

Dr.	
Water Fund, Brooklyn, Fencing, Monumenting and Improving City Lands Occupied by Reservoirs, Conduits and Pumping Stations....	828 00
Water Fund, Manhattan and Bronx.....	3,239 94
Water Fund, Manhattan, Changing Service Taps in Various Streets....	3,271 25
Wat. Supp. Sys., Brooklyn, Extension of Distribution for Small Mains	189 89
Wat. Supp. Sys., Brooklyn, New Distribution Mains for Blythebourne District.....	5,396 14
Wat. Supp. Sys., Brooklyn, Impt. of Gowanus Storage Pipe Yard....	5 85
Wat. Supp. Sys., Richmond, Additional Small Distribution Mains....	19,831 51
Wat. Supp. Sys., Richmond, Machinery and Equipment for New Grant City Pumping Station.....	6,492 10
Wat. Supp. Sys., Supp. and Materials for Labor Cons. Force.....	5 85
Wat. Supp. Sys., Contingent Expenses of Engrg. and Labor Cons. Force	235 33
Wat. Supp. Sys., All Boroughs, Corporate Allowance, 1914.....	15,287 26
Fire Alarm Teleg. System, Manhattan, Bronx and Brooklyn, Rearrang- ing Circuits, Etc., for New System.....	2,318 02
Fund for Street and Park Openings.....	81,706 42
Preparation of the Map of the City of New York.....	68 75
Impt. of Park Avenue from 45th Street to 56th Street, Manhattan....	307,095 34
Street Impt. Fund.....	154,304 39
Redemption of Notes of The City of New York from the Proceeds of Notes Issued to the Public Sept. 11, 1914, for the Cons. of Rapid Transit Railroads.....	209,211 73
Refunds Payable Corporate Stock.....	210 85
Normal College of The City of New York.....	215 94
Central Library Building, Erection of, Brooklyn.....	50 00
Repaving Streets, Brooklyn.....	59,650 71
Police Dept., Acqn. of Land and Erectn. of Bldg., Bronx.....	1,106 40
Cons. and Equipment of Asphalt Repair Plant, Manhattan.....	188 84
Reconstruction of Sewers, Manhattan.....	1,534 25
Repaving Streets, Manhattan.....	1,545 33
Fund for Topographical Bureau, Queens.....	23 00
Repaving Streets, Richmond.....	2,882 21
Experimental Sewerage Disposal Plant at West New Brighton, Cons. and Maintenance.....	138 75
Bridge Over Tracks of the N. Y. & H. R. R. at Pelham Avenue....	12 10
Cons. and Equipment of a Court House, Bronx.....	60 00
Grand Boulevard and Concourse, Cons. of Transverse Roads at Bedford Park Boulevard, 170th to 174th Streets.....	127 01
Grand Boulevard and Concourse, Cons. of Transverse Roads, 161st Street.....	80 78
Rebuilding Sewer in 149th Street and in 144th Street.....	47 78
Cons. of a Relief Sewer in Westchester Avenue, between 3d and Brook Avenues.....	24 93
Repaving Streets, Bronx.....	10,158 17
Special and Trust Fund Accounts, Street Impt. Fund.....	100 00
Cons. of Private Sewers, Brooklyn.....	7 22
Cons. of Private Sewers, Queens.....	63 49
Dept. Education, Maintenance of Training Schools.....	75
Dept. Education, Special High School Fund.....	413 88
Excise Taxes.....	1,629 80
Receipts and Expenses of Tax Sales.....	21 77
Brooklyn Bridge, Maintenance and Repairs, 1914.....	8,578 17
Public School Library Fund.....	17 95
Restoring and Repaving, Special Fund, Bronx.....	1,246 61
Restoring and Repaving, Special Fund, Brooklyn.....	1,118 93
Restoring and Repaving, Special Fund, Manhattan.....	15,278 46
Restoring and Repaving, Special Fund, Queens.....	361 85
Restoring and Repaving, Special Fund, Richmond.....	463 04
Restoring and Repaving, Special Fund, Dept. Parks, Brooklyn and Queens.....	1,038 70
Unsafe Building Fund, Brooklyn.....	93 00
Unsafe Building Fund, Manhattan.....	25 00
Water Meter Fund, No. 2.....	41 81
Water Meter Fund, Brooklyn.....	116 95
Water Meter Fund, Queens.....	59 73
Water Meter Fund, Richmond.....	8 10
Maintenance and Distribution of Water Supply, Brooklyn, 1913....	74 16
Special Trade School Fund, Manhattan.....	666 05
Maintenance and Distribution of Water Supply, Brooklyn, 1914....	76,107 66
Refunds, Payable Accounts, Special.....	11 17
Dept. Correction, Manufacturing Fund.....	7,512 24
Borough of Queens.....	192 00
Contract and Other Payments in Suspense.....	470 00
Fines and Penalties Held in Trust for Various Societies.....	150 00
Unclaimed Salaries and Wages.....	397 93
Croton Water Rent, Refunding Account.....	494 29
Water Rents, Brooklyn, Refunding Account.....	152 29
City of New York, Employees Retirement Fund, etc.....	10,517 66
2,200,424 41	
1903.	
Dept. W. S., G. & E.....	3,043 78
1913.	
Mayoralty.....	569 70
Dept. W. S., G. & E.....	5,440 60
Police Dept.....	12 00
Armory Board.....	2,712 59
Pres. Bor. Brooklyn.....	33 90
Pres. Bor. Queens.....	2,073 54
Pres. Bor. Richmond.....	47 26
Dept. Education.....	824 56
1914.	
Bd. of Aldermen and City Clerk.....	24,726 61
Bd. of Estimate and Apportionment.....	19,295 20
Commissioners of the Sinking Fund.....	137 50
Mayoralty.....	2,011 85
Dept. Finance.....	33,749 03
City Chamberlain.....	2,268 65
Law Dept.....	57,998 98
Dept. Taxes and Assessments.....	4,306 97
Bd. of Elections.....	196,332 55
Municipal Civil Service Com.....	411 89
Comms. of Accounts.....	9,538 50
Bureau of Weights and Measures.....	2,375 06
Bureau of Licenses.....	6,331 16
Commr. of Licenses.....	35 00
Bd. of Assessors.....	3,360 99
Art Com.....	442 54
Examining Board of Plumbers.....	232 50
Pres. Bor. Manhattan.....	66,994 46
Pres. Bor. Bronx.....	33,096 01
Pres. Bor. Brooklyn.....	99,642 93
Pres. Bor. Queens.....	33,559 36
Pres. Bor. Richmond.....	19,388 52
Dept. Education.....	358,127 74
College of The City of New York.....	55,989 71
Normal College of The City of New York.....	39,230 52
Permanent Census Board.....	2,539 40
Dept. Parks.....	65,487 01
Bronx Parkway Com.....	1,898 32
Public Recreation Com.....	455 66
Staten Island Association of Arts and Sciences.....	569 99
New York Public Library.....	16,738 94
Brooklyn Public Library.....	20,677 01
Queens Borough Public Library.....	12,703 33
Police Dept.....	54,846 00
Fire Dept.....	71,453 70
Municipal Explosives Com.....	198 75
Armory Board.....	4,515 80
Bd. of Building Examiners.....	712 26
U. S. Volunteer Life Saving Corps.....	60
Dept. Health.....	170,026 96
Dept. Public Charities.....	110,794 48
Bellevue and Allied Hosps.....	20,871 53
Bd. of Ambulance Service.....	1,023 33
Tenement House Dept.....	29,135 14
Dept. W. S., G. & E.....	130,449 68
Dept. Street Cleaning.....	183,780 85
Association for Befriending Children and Young Girls.....	834 42
American Female Guardian Society and Home for the Friendless....	933 57
Brooklyn Children's Aid Society.....	1,648 50
Columbus Hosp.....	713 85
Jamaica Hosp.....	661 11
Mary Immaculate Hosp.....	713 35
New York Foundling Hosp.....	30,901 96
New York Homeopathic Medical College and Flower Hosp.....	1,281 65
Rockaway Beach Hosp. and Dispensary.....	356 05
St. Mark's Hosp. of New York City.....	192 50
Society for the Aid of Friendless Women and Children.....	385 51
St. Vincent's Hosp. of The City of New York.....	2,874 05
St. Joseph's Hosp., Queens.....	374 95
Sydenham Hosp.....	577 00
St. Joseph's Hosp., New York City.....	6,751 90
St. Malachy's Home.....	9,706 44
Ozanam Home for Friendless Women.....	299 86
Sloane Hosp. for Women.....	1,342 35
Washington Heights Hosp.....	271 55
Catholic Institute for the Blind.....	486 00
Vocational Training.....	62 51
Seaside Home for Crippled Children.....	208 33
Catholic Guardian Society.....	262 50
Dept. Correction.....	55,848 93
Bd. of Inebriety.....	811 84
Bd. of Parole.....	699 98

Dr.	
Brooklyn Disciplinary Training School for Boys.....	370 68
Dept. Bridges.....	41,463 93
Dept. Docks and Ferries.....	63,967 01
City Court of New York.....	21,131 20
Court of Special Sessions.....	31,145 73
City Magistrate's Courts, First Division.....	36,033 18
City Magistrate's Courts, Second Division.....	15,765 93
Municipal Courts of The City of New York.....	75,765 99
General Interpreters, Brooklyn.....	375 00
Bd. of Coroners, Manhattan.....	2,533 33
Bd. of Coroners, Bronx.....	1,260 45
Bd. of Coroners, Brooklyn.....	2,749 00
Bd. of Coroners, Queens.....	787 51
Bd. of Coroners, Richmond.....	503 86
Bd. of City Record.....	13,863 06
Advertising.....	558 92
Interest on the City Debt.....	68,795 37
Rent.....	1,398 00
County of New York.	
County Clerk.....	8,166 17
District Attorney.....	35,024 93
Register.....	10,469 16
Comm. of Records.....	4,219 80
Comm. of Records, Surrogate's Court.....	3,868 31
Public Administrator.....	2,361 12
Sheriff.....	6,678 22
National Guard and Naval Militia.....	15,135 00
St. Joseph's Institute for the Improved Instruction of Deaf Mutes....	8,893 24
N. Y. Institution for the Instruction of the Deaf and Dumb.....	5,517 90
Supreme Court, First Dept.....	82,860 58
Court of General Sessions.....	31,379 44
Surrogate's Court.....	15,723 59
Disbursements and Fees in Compliance with Section 658, etc.....	5 00
Bd. of City Record.....	10 25
Contingencies.....	275 00
County of Bronx.	
County Clerk.....	1,229 18
District Attorney.....	4,041 62
Register.....	1,083 34
Comm. of Jurors.....	909 15
Public Administrator.....	333 33
Sheriff.....	1,208 34
National Guard and Naval Militia.....	2,511 00
New York Institution for the Instruction of the Deaf and Dumb....	1,276 05
St. Joseph's Institute for the Improved Instruction of Deaf Mutes....	4,122 89
Surrogate's Court.....	1,749 99
County Court.....	416 67
Stenographers' Fees.....	20 60
County of Kings.	
County Clerk.....	4,576 69
District Attorney.....	351 70
Register.....	14,295 77
Commr. of Records.....	3,981 07
Commr. of Jurors.....	1,625 85
Sheriff.....	3,729 33
National Guard and Naval Militia.....	10,552 75
New York Institution for the Instruction of the Deaf and Dumb....	3,649 82
Supreme Court, Second Dept.....	31,846 31
Surrogate's Court.....	9,041 09
County Court.....	15,479 79
Supreme Court Library in Brooklyn.....	683 33
Bd. of City Record.....	15 16
County of Queens.	
County Clerk.....	4,970 50
District Attorney.....	1,379 18
Commr. of Jurors.....	933 26
Sheriff.....	1,777 54
National Guard and Naval Militia.....	434 00
New York Institution for the Instruction of the Deaf and Dumb....	539 57
Supreme Court.....	2,701 63
Surrogate's Court.....	2,049 99
County Court.....	1,741 62
Supreme Court Library.....	177 50
Bd. of City Record.....	76 96
County of Richmond.	
County Clerk.....	858 34
District Attorney.....	1,107 17
Commr. of Jurors.....	325 00
Sheriff.....	794 23
National Guard and Naval Militia.....	527 00
New York Institution for the Instruction of the Deaf and Dumb....	97 04
Supreme Court.....	708 33
County Court and Surrogate's Court.....	887 26
Bd. of City Record.....	13 20
Moneys Refundable from the General Fund.....	114 58
Forfeited Recognizances, New York County.....	525 00
Revenue Bonds and Bills of 1914.....	1,413,729 63
4,266,686 77	
Balance.....	
6,467,111 18	
61,537,612 02	
\$68,004,723 20	
The Commissioners of the Sinking Funds of The City of New York in Account with Henry Bruere, Chamberlain, For and During the Week Ending October 31st, 1914.	
SINKING FUND REDEMPTION.	
Credit.	
October 24th, 1914, Balance.....	\$5,229,106 14
October 31st, 1914.	
Privileges—Goodacre.....	\$684 00
Rent—Goodacre.....	2,724 71
Subway Privileges—Goodacre.....	4,500 00
Railroad Franchises—Goodacre.....	408,854 51
Gas Franchises—Goodacre.....	20,285 86
Sundry Licenses, Man. and Bx—Bell.....	2,452 50
Sundry Licenses, Brooklyn—Bell.....	815 00
Sundry Licenses, Queens—Bell.....	22 50
Sundry Licenses, Richmond—Bell.....	12 50
Street Vaults, Manhattan—Marks.....	\$3,234 16
Street Vaults, Manhattan—Compr.....	79 91
Street Vaults, Bronx—Mathewson.....	1,442 51
Street Vaults, Queens—Connolly.....	51 89
4,808 47	
Licenses—Cashman.....	261 50
Fines—Cashman.....	68 00
Dept. Docks, Rents—Smith.....	13,167 25
Interest on City Treasury Balances.....	3,857 94
462,514 74	
Balance, October 31st, 1914.....	
\$5,691,620 88	
SINKING FUND INTEREST.	
Credit.	
October 24th, 1914, Balance.....	\$1,391,109 50
October 31st, 1914.	
Ar. Croton Water Rents, 1898, Etc.—Rec. Taxes.....	\$5,696 44
Ar. Croton Water Rents, 1898, Etc.—Coll. Assts.....	4,087 06
Int. Croton Water Rents, 1898, Etc.—Coll. Assts.....	695 51
Croton Rents and Penalties, Manhattan—Williams.....	\$63,032 48
Croton Rents and Penalties, Bronx—Williams.....	7,169 56
70,202 04	
Tolls—Smith.....	16,738 27
Ferry Rents—Smith.....	2,796 66
Rents—Goodacre.....	1,745 53
District Attorney, Kings Co., Fines—Cropsey.....	70 00
Fines and Penalties, Man. and Bronx—Hayes.....	50 00
Court of General Sessions, Man.—Carroll.....	\$75 00
Court of Special Sessions, Man.—Lambert.....	19 00
Court of Special Sessions, Bronx—Cullen.....	115 00
Court of Special Sessions, Queens—Moran.....	255 00
Court of Special Sessions, Queens—Ollendorff.....	3 00
County Court, Richmond—Bostwick.....	50 00
1st District Magistrate Court—Casey.....	48 00
565 00	
102,646 51	
\$1,493,756 01	
Debit.	
Deposit in the City Treasury to the Credit of Croton Water Rent Refunding Account	132 68
Balance, October 31st, 1914.....	
\$1,493,623 33	
SINKING FUND OF THE CITY OF BROOKLYN.	
Credit.	
October 24th, 1914, Balance.....	\$49,618 55
October 31st, 1914.	
Prospect Park Impt., Inst.—Coll. Assts.....	\$107 29
Int. Prospect Impt., Inst.—Coll. Assts.....	8 90
Prospect Park Impt., Inst.—Coll. Assts.....	3 30
119 49	
Balance, October 31, 1914.....	
\$49,738 04	
SINKING FUND OF THE CITY OF NEW YORK.	
Credit.	
October 24th, 1914, Balance.....	\$3,224,610 29

Debit.		
Investment in 3 Per Cent. Assessment Bonds of The City of New York	1,500,000 00	
Balance, October 31st, 1914	\$1,724,610 29	
CREDIT.		
October 24th, 1914, Balance	\$1,884,644 21	
Revenue from Investment	451 23	
	\$1,885,095 44	
Debit.		
Investment in 3 Per Cent. Assessment Bonds of The City of New York	\$1,500,000 00	
Investment in 3 Per Cent. Special Revenue Bonds of 1914 of The City of New York	350,000 00	
	1,850,000 00	
Balance October 31, 1914	\$35,095 44	
The City of New York, in Account with Henry Bruere, Chamberlain, During the Week Ending October 31st, 1914.		
INTEREST REGISTERED.		
CREDIT.		
October 24th, 1914, Balance	\$49,555 42	
Debit.		
October 31st, 1914, Interest Registered	\$2,519 93	
Balance October 31st, 1914	47,035 49	
JURY FEES.		
October 24th, 1914, Credit Balance, New York Co.	\$39,476 00	
October 31st, 1914, Debit, New York Co., 1913	\$14 00	
October 31st, 1914, Debit, New York Co., 1914	7,834 00	
	7,848 00	
October 24th, 1914, Credit Balance, Bronx Co.	4,128 00	
October 31st, 1914, Debit, Bronx Co., 1914	438 00	
	3,690 00	
October 24th, 1914, Credit Balance, Kings Co.	33,500 00	
October 31st, 1914, Debit, Kings Co., 1914	2,906 00	
	30,594 00	
October 24th, 1914, Credit Balance, Queens Co.	7,222 68	
October 31st, 1914, Debit, Queens Co., 1914	393 12	
	6,829 56	
October 24th, 1914, Credit Balance, Richmond Co.	9,319 80	
Balance October 31st, 1914	\$82,061 36	
WITNESS FEES.		
October 24th, 1914, Credit Balance, New York Co.	6,047 87	
October 31st, 1914, Debit, New York Co., 1914	336 60	
	5,711 27	
October 24th, 1914, Credit Balance, Bronx Co.	402 96	
October 31st, 1914, Debit, Bronx Co., 1914	63 86	
	339 10	
October 24th, 1914, Credit Balance, Kings Co.	3,175 16	
October 31st, 1914, Debit, Kings Co., 1914	103 64	
	3,071 52	
October 24th, 1914, Credit Balance, Queens Co.	821 18	
October 24th, 1914, Credit Balance, Richmond Co.	931 16	
Balance October 31st, 1914	\$10,874 23	

DEPARTMENT OF FINANCE

WARRANTS MADE READY FOR PAYMENT IN DEPARTMENT OF FINANCE
THURSDAY, DECEMBER 3, 1914.

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

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

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

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

WILLIAM A. PRENDERGAST, Comptroller.

Finance Voucher No.	Invoice Dates or Contract Number.	Received in Department of Finance.	Name of Payee.	Amount.
Board of Aldermen.				
154627			M. B. Brown Ptg. & Bdg. Co.	\$7 00
Board of Ambulance Service.				
152016	10-31-14		11-23-14 Central Window Cleaning and House Renovating Co.	\$3 00
Bellevue and Allied Hospitals.				
151866	8-13-14		11-23-14 Waite & Bartlett Mfg. Co.	\$25 00
151783	9-5-14, 10-1-14		11-23-14 J. Saron	34 25
151782	9-23-14		11-23-14 William Meier	20 00
Municipal Civil Service Commission.				
151140	39265	11-20-14	New York Telephone Company	\$299 49
Court House Board.				
154159	11-24-14		11-27-14 L. Lafin Kellogg, Secretary	\$107 84
154154	7-31-14		11-27-14 The Western Union Telegraph Co., Inc.	1 05
City Magistrates' Courts, First Division.				
153145	11-10-14		11-25-14 Mallinckrodt Chemical Works	\$34 47
City Magistrates' Courts, Second Division.				
153769	10-31-14		11-27-14 P. W. Taylor	\$29 00
153770	11-12-14		11-27-14 H. W. Jones	65 20
153771	11-18-14		11-27-14 Urquhart & Fox Co., Inc.	26 00
155067	11-30-14		12-1-14 William F. Delaney, Chief Clerk	100 00
Surrogates' Court, New York County.				
150953	11-9-14		11-20-14 Underwood Typewriter Co., Inc.	\$129 60
Board of City Record.				
155150			12-1-14 Michael Donnelly	\$80 00
College of The City of New York.				
151005	8-1-14		11-20-14 The Macmillan Company	\$336 00
151007	8-6-14		11-20-14 American Book Co.	360 00
153345	10-15-14		11-25-14 James A. Miller	10 50
153350	10-26-14		11-25-14 Powers & Powers	9 00
153351	10-8-14		11-25-14 Cambridge Botanical Supply Co.	4 23
153352	10-22-14		11-25-14 City College Market, L. Salomon & Son, Prop.	3 60
153353	9-29-14		11-25-14 J. H. Arnold's Son	3 10
143348	10-5-14		11-25-14 Chas. E. Snyder	12 67
153349	10-14-14		11-25-14 The Marine Biological Laboratory	14 57
153354	9-8-14		11-25-14 Hull, Grippen & Co.	2 20
153355	10-7-14		11-25-14 Borne, Scrymser Company	47 12
153356	9-14-14		11-25-14 Cavanagh Bros. & Co.	32 30
153357	10-26-14		11-25-14 National Rope Company	2 25
153358	9-21-14		11-25-14 The A. Jay Cross Optical Co.	9 00
153362	10-14-14		11-25-14 The Marine Biological Laboratory	20 00
153363	10-20-14		11-25-14 Tower Mfg. & Novelty Co.	1 52
153364	10-8-14		11-25-14 Eimer & Amend	3 60
153360	10-14-14		11-25-14 Prof. Bradley M. Davis	10 00
153361	10-21-14		11-25-14 Spencer Lens Company	30 60
151001	9-19-14		11-30-14 Maurice O'Meara Co.	107 00
150991	7-22-14		11-20-14 A. Klein	523 00
151025	9-15-14		11-20-14 The Warren Press	156 50
151004	8-3-14		11-20-14 Allyn & Bacon	156 26
150993	4-8-14		11-20-14 B. F. Sturtevant Company	990 00

Finance Voucher No.	Invoice Dates or Contract Number.	Received in Department of Finance.	Name of Payee.	Amount.
Department of Correction.				
150621	40409	11-20-14	New York Telephone Company	\$69 33
150620	40409	11-20-14	New York Telephone Company	74 00
District Attorney, New York County.				
154767		11-30-14	New York Telephone Co.	\$13 42
153156	11-9-14	11-25-14	Benj. H. Tyrrel	32 49
District Attorney, Bronx County.				
152552	10-17-14, 11-17-14	11-24-14	J. Schapiro	\$2 10
152551	9-30-14, 10-31-14	11-24-14	Berkshire Springs Company	8 20
152550		11-24-14	Wm. G. Helfried	61 25
152548	10-29-14	11-24-14	Nickel Towel Supply	5 82
152546	11-16-14	11-24-14	Louis J. Curl	12 00
152544	10-5-14	11-24-14	Underwood Typewriter Co., Inc.	60
152543	11-20-14	11-24-14	Thos. Cook & Son	92 07
152542	11-19-14, 11-20-14	11-24-14	William J. Mellin	87 00
152541	10-6-14	11-24-14	Wm. G. Helfrich	2 34
152540	11-6-14	11-24-14	Fallon Law Book Company	18 95
District Attorney, Kings County.				
152224	10-31-14	11-23-14	Stevenson & Marsters	64 07
152221		11-23-14	Louis A. Zimmerman	67 38
Board of Estimate and Apportionment.				
154222	11-9-14	11-27-14	Alex. Brennan	8 59
154225	10-31-14	11-27-14	North Moore Garage, Inc.	11 02
154226	11-7-14	11-27-14	The Independent Towel Supply	2 25
154224	9-10-14	11-27-14	Patterson, Gottfried & Hunter, Ltd.	8 70
154223		11-27-14	Patterson, Gottfried & Hunter, Ltd.	12 43
154227	10-31-14	11-27-14	North Moore Garage, Inc.	22 50
156024			Mitchell P. Talmadge	96 26
154221		11-27-14	J. F. Hazrick, Clerk-in-Charge	7 80
Department of Education.				
150502	9-9-14	38485	Fredk. Pearce Co.	16 47
150550		119	Hinds, Noble & Eldredge	173 80
150802		40221	T. Frederick Jackson, Inc.	450 00
150801		40221	T. Frederick Jackson, Inc.	630 00
150531	9-15-14	40268	J. Friedman	307 00
150794		38721	John J. Foley	378 00
150793	10-28-14	38740	Wm. C. Card	511 56
150795	10-30-14	38720	Callaghan & Roulet	198 45
150528	10-17-14	39874	The Philadelphia and Reading Coal and Iron Co., Assignees of Olin J. Stephens, Inc.	570 27
150586	9-22-14, 10-22-14	11-20-14	E. Crutchley, Jr., Co.	476 00
149349	9-25-14	11-18-14	The H. B. Clafin Co.	127 49
149350	9-25-14	11-18-14	John Wanamaker	65 52
149023	5-27-14	153	The Macmillan Company	18 68
150559	8-31-14	153	The Macmillan Company	16 00
147602		39848	I. Langner	247 00
147600		39848	I. Langner	354 00
150525	9-2-14	39290	G. P. Putnam's Sons	100 35
149241	10-7-14	11-18-14	Keuffel & Esser Co.	196 60
149239	10-8-14	11-18-14	Hopkins & Co.	53 00
149237	9-30-14	11-18-14	Benjes & Stiefel	308 00
149250	10-7-14	11-18-14	Benjes & Stiefel	192 00
147927	6-29-14, 9-12-14	11-16-14	T. Frederick Jackson, Inc.	413 00
150821	10-13-14	676	Detroit Publishing Co.	13 75
150807	10-13-14	676	Detroit Publishing Co.	32 40
150527	9-4-14	39292	The A. S. Barnes Co.	1 12
150495	8-1-14	39290	G. P. Putnam's Sons	80 44
150556	9-30-14	38619	M. B. Brown Ptg. & Bdg. Co.	6 19
150487	9-14-14	38619	M. B. Brown Ptg. & Bdg. Co.	6 19
150478	9-4-14	39292	The A. S. Barnes Co.	27 52
150476	9-1-14	39292	The A. S. Barnes Co.	4 00
150432	9-30-14	38619	M. B. Brown Ptg. & Bdg. Co.	48 88
150567	9-23-14	39290	G. P. Putnam's Sons	42 68
149343	9-11-14	11-18-14	Royal Typewriter Co., Inc.	40 00
150873	9-8-14	11-20-14	Agent and Warden of Sing Sing Prison	414 50
150599	10-5-14	11-20-14	Library Bureau	192 00
150597	10-8-14	11-20-14	The Nelson Co., Inc.	345 00
150843	9-21-14, 10-7-14	11-20-14	Brooklyn Window Shade Co.	149 66
150842	10-7-14	11-20-14	Brooklyn Window Shade Co.	100 96
150831	10-20-14	11-20-14	J. Friedman	110 00
150416	9-22-14	11-20-14	M. J. Tobin	336 25
150417			M. B. Brown Ptg. & Bdg. Co.	272 25
149012	7-7-14	110	Silver, Burdett & Company	163 91
150887	9-2-14, 10-10-14	11-20-14	H. Gordon	171 90
150888	10-5-14, 10-16-14	11-20-14	H. Hanig	118 75
150823	10-1-14	11-20-14	S. Zacharkow	223 00
150588	7-20-14	8-21-14	E. Crutchley, Jr.	245 00
150875	9-14-14	11-20-14	Thomas Malloy	145 00
150425	9-21-14	38520	Geo. T. Montgomery	70 03
150580	9-21-14	38520	Geo. T. Montgomery	9 08
150490	9-21-14	38520	Geo. T. Montgomery	9 16
149041	9-25-14	38536	A. E. Moeller	49 00
150796	9-1-14	39289	The Macmillan Company	30 46
150496	8-21-14	39289	The Macmillan Company	19 72
149005	9-3-14	38484	Davids Mfg. Co.	6 25
144824		39956	I. S. Smith	304 00
147592		39946	Nicholas P. Lorenzo	438 00
150498	9-25-14	38446	E. W. A. Rowles	161 03
150545	9-14-14	38456	P. J. Foster	2,081 22
150429	9-15-14	38456	P. J. Foster	874 13
154342			New York Telephone Co.	97 08
154329			New York Telephone Co.	35 36
154331			New York Telephone Co.	58 79
154330			New York Telephone Co.	34 49
150418	9-22-14	11-20-14	M. J. Tobin	153 00
150522	8-24-14	11-20-14	J. Friedman	185 00
150549	9-26-14	39344	Ward's Natural Science Establishment	4 60
150558	9-14-14	39344	Ward's Natural Science Establishment	1 15
150477	8-24-14	39283	World Book Company	1 28
150798		39283	World Book Company	96
150800	12-11-13	436	John Wanamaker, New York	5 75
150817	8-31-14	113	American Book Company	8 50
148972	9-2-14	113	American Book Co.	2 00
150489	9-5-14	113	American Book Company	11 52
149050	9-23-14	39295	American Book Company	8 97
149051	9-19-14	39295	American Book Company	16 82
150803	9-20-14	11-20-14	E. Leipuner	685 00
150846	10-20-14	11-20-14	Thomas Nelson & Sons	381 00
150591	9-29-14, 10-8-14	11-20-14	Favor, Ruhl & Co.	104 66
150519	9-16-14	11-20-14	Royal Co. of New York, Assignee of Commercial Specialties Co.	184 50</

Finance Voucher No.	Invoice Dates or Contract Number.	Received in Department of Finance.	Name of Payee.	Amount.	Finance Voucher No.	Invoice Dates or Contract Number.	Received in Department of Finance.	Name of Payee.	Amount.	
150546	9-18-14	38441	11-20-14	Wm. H. Sidway.....	17 03	153864	11-10-14	11-27-14	Dr. Wm. H. Park, Dir. of Laboratories	2 45
150562	9-19-14	38488	11-20-14	Parker P. Simmons Co., Inc.....	6 43	153865	11-10-14	11-27-14	Dr. Wm. H. Park, Dir. of Laboratories	5 05
150534	9-24-14	38518	11-20-14	Scientific Equipment Co.....	18 95	153840	11- 9-14	11-27-14	Dr. W. H. Park, Dir. of Laboratories..	7 00
150426		38518		Scientific Equipment Co.....	11 69	151017	10-31-14	11-20-14	David Berg Distilling Co.....	601 50
150491	6-16-14	38512	11-20-14	Schoverling, Daly & Gales.....	10 14				Law Department.	
150576		38509		Standard Supply Co.....	95 00	151589		11-23-14	Queensboro Reporting Co.....	\$622 15
150494	9-22-14	39299	11-20-14	F. C. Stechert Co., Inc.....	2 87	151745	11-11-14, 11-13-14	11-23-14	Neostyle Co.	13 80
150480	9-17-14	39299	11-20-14	F. C. Stechert Co., Inc.....	2 72	151746	11- 1-14	11-23-14	G. W. Bromley & Co.....	12 00
150570	9-17-14	39299	11-20-14	F. C. Stechert Co., Inc.....	6 22	151747	10-15-14	11-23-14	Knickerbocker Ice Co.	5 70
150493	9-18-14	39410	11-20-14	Syndicate Trading Co.....	10 28	150940			James MacDonald	192 50
150479		39410		Syndicate Trading Co.....	7 12	151739	11- 2-14	11-23-14	Edward Thompson Company	5 00
150526	9-29-14	39410	11-20-14	Syndicate Trading Co.....	66	152321	10-31-14	11-24-14	G. W. Bromley & Co.....	3 00
150797	9-24-14	39410	11-20-14	Syndicate Trading Co.....	11 63	152319	10-31-14	11-24-14	The N. Y. Multi-Color Copying Co....	4 55
150574	1-30-14	951	11-20-14	The Kny-Scheerer Co.....	24 12	152318	8-31-14, 11- 9-14	11-24-14	Kolesch & Co.	29 41
150541	9-16-14	38623	11-20-14	H. C. Hallenbeck	51 78	152320	10-31-14	11-24-14	A. Rudolph	4 52
150435	9-26-14	38623	11-20-14	H. C. Hallenbeck	36 00	151738	9-22-14, 10-13-14	11-23-14	Remington Typewriter Co.	2 00
150568	8-27-14	39285	11-20-14	D. C. Heath & Co.....	7 11	151743	11- 4-14	11-23-14	W. C. Wilson	2 10
150474	8-14-14	39285	11-20-14	D. C. Heath & Co.....	13 22	151740	11- 2-14	11-23-14	The Peerless Towel Supply Co.....	1 25
150537	8-29-14	38624	11-20-14	Clarence S. Nathan.....	6 70	151737	10- 1-14	11-23-14	W. A. Morschhauser	95
150579	8-14-14	38514	11-20-14	Cavanagh Bros. & Co.....	48 25	153613			Frank L. Polk, Corporation Counsel...	500 00
150808	9-21-14	38514	11-20-14	Cavanagh Bros. & Co.....	7 00				The Mayoralty.	
150578	9-30-14	38545	11-20-14	Jones Packing Co.....	6 44	153223	10- 9-14	11-25-14	Tower Mfg. & Novelty Co.....	\$11 99
150816	9-10-14	39345	11-20-14	L. E. Knott Apparatus Co.....	2 38				Department of Parks, Boroughs of Manhattan and Richmond.	
150810	9-14-14	39329	11-20-14	Scientific Equipment Co.....	50	151778	10-23-14	11-23-14	Thonet Bros.	\$31 80
150581	9-26-14	38546	11-20-14	Putnam & Co.....	18 75	151770			M. L. Bird	27 60
150547	10- 5-14	39324	11-20-14	Parex Mfg. Co.....	24	151769	10-28-14	11-23-14	J. S. Woodhouse Co.	1 50
150427	9- 3-14	39324	11-20-14	Parex Mfg. Co.....	17 87	151770	10-31-14	11-23-14	Neal & Brinker Company.....	2 32
150503	9- 4-14	39348	11-20-14	Fred'k Pearce Co.....	6 03	151771	11- 2-14	11-23-14	Department of Correction	56 00
150814	8-27-14	683	11-20-14	Rand, McNally & Co.....	33 00	151774	10-17-14	10-23-14	Imperial Stables	13 00
150918	9-30-14			Otto Woehle	220 00	151775	11- 2-14	11-23-14	General Gas Light Company.....	5 05
				Department of Finance.					Police Department.	
154721			11-30-14	Estate of George Helfrich	\$50 00	151197		39477	The J. W. Pratt Co.....	\$162 50
154720			11-30-14	Teresa Rienzo	500 00	151198		39850	New York Telephone Company.....	102 83
155009				Michael Brennan and Katherine C. Brennan, as Executors of and Trustees Under the Will and Testament of Edward Brennan, Deceased.....	500 00				President of the Borough of Manhattan.	
				James J. Hart and Hannah Hart, His Wife	150 00	153074	10-31-14	11-25-14	United States Wood-Preserving Co...	\$9 97
154888				Frederick Heather	525 00	153073			The Sicilian Asphalt Paving Company	9 59
154889				Jacob Maurer and Katherine Maurer, His Wife	125 00	153071	10-30-14	11-25-14	Uvalde Contracting Co.	29 10
154891				Margaret Nechtold	55 00	153069	9-30-14	11-25-14	The Aztec Asphalt Company, Inc....	7 35
154892				Charles Sesselmann	325 00	153070	10-31-14	11-25-14	United States Wood Preserving Co...	88 63
154893				Robert Willis and Annie Willis, His Wife	250 00	150970	10- 2-14	11-20-14	Montgomery & Co., Inc.....	102 85
154894				George W. Braegger and Anna Sturmer	900 00	150976	10-31-14	11-20-14	The Asphalt Construction Company..	371 75
154897				Patrick Corrigan	325 00	153075	11- 1-14	11-25-14	Lincoln Garage	20 00
154898				Katherine Goodwin and Bridget Byrne	10 00	153067	9-30-14	11-25-14	Manhattan Electrical Supply Co....	13 61
154890				Daniel O'Brien and Nellie O'Brien, His Wife	325 00	153065	11-10-14	11-25-14	George R. Starrs	12 00
154900				Joseph Rossi, Fortunato Rossi, William Rossi	850 00	153066	10-24-14, 11- 6-14	11-25-14	Sibley & Pitman	48 79
154903				John Koch	350 00	153042	11- 1-14	11-25-14	Lincoln Garage	23 55
154902				Daniel O'Brien	460 00	153063	11- 4-14	11-25-14	Barrett Manufacturing Company.....	12 94
154904				Joseph Krizek and Mary Krizek, His Wife	150 00	153062	11- 4-14	11-25-14	F. W. Devoe & C. T. Reynolds Co...	10 50
154906				Ludwig Kalinowsky	400 00	153064	11-10-14	11-25-14	David Shuldiner, Inc.	22 74
154907				Charles Jaekel and Mary Jaekel.....	200 00	150983	9- 5-14, 10-12-14	11-21-14	The Barber Asphalt Paving Co.....	506 74
154905				Andrew Lomparter and Rosina Lomparter	400 00	150982	8-10-14, 10- 1-14	11-20-14	Uvalde Contracting Co.	296 78
155425			12- 2-14	Wakefield Construction Co. or Kellogg & Rose, Attys.....	122,146.02	150984	9-26-14, 10-17-14	11-20-14	The Asphalt Construction Company..	180 24
154899				Cono Manzolillo and Rafaelo Dalvano.	141 76				President of the Borough of The Bronx.	
154895			12- 1-14	Katherine Goodwin and Bridget Byrne.	2 76	154230	11-12-14	11-27-14	Tremont Printing Co.	\$3 50
154901			12- 1-14	Emma L. Tisdale	517 61	155311		12- 2-14	Wakefield Construction Co. or Kellogg & Rose, Attys.	7,702 30
155608			12- 2-14	The Commissioners of the Sinking Fund, for account of the Sinking Fund for the Redemption of the City Debt No. 1	1,600,000 00	154257	11- 2-14	11-27-14	Joseph L. Brennan	9 26
155607			12- 2-14	The Commissioners of the Sinking Fund, for account of the Sinking Fund for the Redemption of the City Debt No. 1	1,300,000 00	154258	10-30-14	11-27-14	Uvalde Asphalt Paving Co.	25 50
155609			12- 2-14	The Commissioners of the Sinking Fund, for account of the Sinking Fund for the Redemption of the City Debt No. 1	1,200,000 00	154255	10-30-14	11-27-14	United States Wood Preserving Co...	50 61
155452			12- 2-14	Leonardo Manessacco	23 00				President of the Borough of Brooklyn.	
155453			12- 2-14	Frank Di Giovanni	23 00	151151			Salamander Grate Bar Co.	\$154 00
155454			12- 2-14	Paola Stella	23 00	151147	11-13-14	11-20-14	Brooklyn Ash Removal Co., Inc.....	350 00
155455			12- 2-14	Antonia Frenna	23 00	151181	10-31-14	11-20-14	Brooklyn Ash Removal Company, Inc.	560 00
155456			12- 2-14	Domenic Piazza	23 00	152249			F. N. Lewis	13,923 00
155457			12- 2-14	Guisepe Gagliano	23 00	151135	11-10-14	11-20-14	Dickson & Turnbull, Inc.	815 00
155458			12- 2-14	Vito Sealia	23 00				President of the Borough of Queens.	
155450			12- 2-14	Antonio Cucchira	23 00	153376	10-30-14	11-25-14	William C. Card.....	10 00
155449			12- 2-14	Bartholomew Rondelli	22 00	153377	11- 9-14	11-25-14	The Long Island Hardware Co.....	7 25
155451			12- 2-14	Luciano Bedia	23 00	153374	11- 5-14	11-25-14	The Madison Ave. Stables, J. H. Connell, Prop.....	40 29
155974			12- 3-14	Charles Dobres	72 00	153375	11- 5-14	11-25-14	The Madison Ave. Stables, J. H. Connell, Prop.....	5 23
155062				Edward M. Morgan, as Postmaster....	25 00	153370	11- 1-14	11-25-14	Jamaica Ice Company.....	11 70
154725			11-30-14	Hector Colquhoun	3 00	153368	11-12-14	11-25-14	Philip Dietz Coal Co.....	14 00
154730				Thomas G. Price, Executor, Estate of John Love, deceased	24 00	153367	11- 1-14	11-25-14	Morris Auto Garage.....	1 50
154731				Ada Thompson	3 63	151042			Queensboro Building Supply Co.....	256 03
154732				John Dougherty, Administrator, Estate of James Dougherty, deceased.....	8 06	154018	10-31-14	11-27-14	The Long Island Hardware Co.....	10 00
154729				Charles H. Sommers	15 00	153378	10-20-14	11-25-14	E. G. Soltmann.....	13 00
154728				John H. Timmerman, City Paymaster.	1 45	153379	11-12-14	11-25-14	L. Gally.....	45 33
154727				Anthony Marchesano	18 00	153381	11-11-14	11-25-14	Oriental Rubber & Supply Co., Inc....	71 90
154963				Alumnae Association of the Bellevue Training School for Nurses.....	675 00	153380	11- 9-14	11-25-14	Bosch Magneto Co.....	3 00
154962				Hugh Cavanaugh	550 00	153382	11-10-14	11-25-14	Crosby Steam Gauge & Valve Co.....	4 50
154961				Georgianna L. McClelland and Emeline D. Winthrop	225 00	153383	9-25-14	11-25-14	G. R. Lawrence.....	5 25
150516				M. B. Brown Ptg. & Bdg. Co.....	4,409 70	153384	10- 1-14	11-25-14	Edward E. Buhler Co.....	93 14
154726			11-30-14	William McMillan	3 00	153385	11-11-14	11-25-14	The Long Island Hardware Co.....	2 90
154724			11-30-14	Daniel A. Walsh	8 00	153388	11- 2-14	11-25-14	Nason Mfg. Co.....	3 43
154723				John L. Stocum	50 00	153387	11-13-14	11-25-14	Henry O. Grieshaber.....	5 85
154722			11-30-14	John T. Oates	50 00	153395	10-31-14	11-25-14	James Kelly.....	3 50
				Fire Department.		153389	10-31-14	11-25-14	Herman Dittmer.....	5 00
128230		35844	10- 5-14	Frank J. Fee	\$1,057 70	153394	10-31-14	11-14-14	Quinn's Livery and Garage Co.....	25 00
151718	10-22-14		11-23-14	Thompson Levering Co.....	4 50	151044		11-20-14	Luke A. Burke & Sons, Inc.....	74,997 44
151722	10-27-14		11-23-14	Reliable Garage Co.....	22 00				President of the Borough of Richmond.	
151721	9-11-14		11-23-14	Robert J. Wright & Sons.....	80 00	154827	10-28-14	11-30-14	The Staten Island World.....	72 00
151723	10-26-14		11-23-14	P. A. Gaynor	15 00	148006			Public Service Commission.	
151717	10-28-14		11-23-14	The E. R. Merrill Spring Co.....	4 90	154134	10-31-14	11-16-14	Underpinning & Foundation Co.....	4,758 76
				Department of Health.		149891	10-29-14	11-27-14	The New York Mutual Gas Light Co..	15 45
146120	9-10-14	38559	11-11-14	William Gleichmann & Co.....	\$88 35			11-19-14	E. J. Willis Co.....	50 00
153282	10-20-14		11-25-14	The Kny-Scheerer Co.....	35 75				Department of Public Charities.	
153858	10-17-14		11-27-14	William Valerius	5 50	150740	11- 5-14	11-20-14	Meyer-Denker-Sinram Co.....	596 57
						150721	11- 2-14	11-20-14	The Manhattan Supply Co.....	188 22
						150747	8-31-14	11-20-14	The Manhattan Supply Co.....	1,664 16
						150722	9-25-14	11-20-14	The Manhattan Supply Co.....	241 84
						150739	11- 4-14	11-20-14	Levy Bros.....	315 08
						150720	10-31-14	11-20-14	McDermott Dairy Co.....	216 72
						154080	9-21-14	11-27-14	Agent & Warden of Clinton Prison...	4 00
						154068	9- 1-14	11-27-14	Blake & Knowles Steam Pump Wks...	4 00
						154073	10-27-14	11-27-14	Cumberland St. Presbyterian Church,	
									James H. Neill, Treasurer.....	5 00
						154027	9-10-14, 10-28-14	11-27-14	Wm. Schmidt.....	9 13
						154063	9-30-14	11-27-14	Hull Grippen & Co.....	4 60
						154067	10-26-14	11-27-14	The Fairbanks Co.....	10 00
						154061	8- 4-14	11-27-14	Singer Sewing Machine Co.....	28 44
						154062	9-			

Finance Voucher No.	Invoice Dates or Contract Number.	Received in Department of Finance.	Name of Payee.	Amount.	Finance Voucher No.	Invoice Dates or Contract Number.	Received in Department of Finance.	Name of Payee.	Amount.
150751	10-28-14	39024	11-20-14	Henry Frank.....	275 00	154373	11-28-14	Isaac Tyrrell	150 00
150750	10-31-14	38494	11-20-14	The East River Mill & Lumber Co....	64 00	154368	11-28-14	Hannah O'Neill	520 82
150736	10-22-14	39243	11-20-14	Lewis De Groff & Son.....	446 89	154369	11-28-14	Moses R. Cornwell	633 53
150737	10-29-14	38953	11-20-14	Lewis De Groff & Son.....	618 00	154381	11-28-14	Alfred T. Davison	1,016 74
150738	10-26-14	38373	11-20-14	Lewis De Groff & Son.....	300 85	154376	11-28-14	Margaret Riggs, Administratrix, Estate of Geo. T. Riggs.....	190 00
150748	11- 5-14	39757	11-20-14	Bloomington Bros.	99 15	154379	11-28-14	Christine N. Cronyn	484 70
150742	11- 6-14	39471	11-20-14	Bacon Coal Company.....	33 00	154374	11-28-14	P. K. Meynen	200 00
150743	11- 5-14	39471	11-20-14	Bacon Coal Company.....	33 00	154378	11-28-14	George P. Williams	25 00
150688	10-22-14		11-20-14	James T. Smith, Inc.....	123 55	154380	11-28-14	George Wallace	2,678 59
150702	10-26-14		11-20-14	John Wanamaker, New York.....	220 88	154364	11-28-14	Geo. W. Loft	25,654 00
150697	7-30-14, 10-19-14		11-20-14	H. T. Dakin.....	324 65	150709	40283	New York Telephone Company.....	3,022 87
150696	9-22-14		11-20-14	Agent and Warden of Sing Sing Prison	108 00	150710	40495	New York Telephone Co.....	2,371 81
Commissioner of Records, Kings County.						153026	9-21-14	John F. O'Brien	10 56
152453	11-16-14		11-24-14	Schultz & Co.....	\$47 25	153024	9-21-14	John F. O'Brien	15 35
152457	11-16-14		11-24-14	The Hall's Safe Company.....	1 50	153023	9-12-14	Robert B. Russell	10 54
152455	11-19-14		11-24-14	Messrs. Jos. B. Martindale & Fred A. Juilliard, Receivers of the H. B. Claffin Company	6 84	153020	10- 5-14	Hersey Manufacturing Co.	4 93
152454	11-18-14		11-24-14	Wm. Openhym & Sons.....	13 00	153021	10- 5-14, 10-27-14	Thomson Meter Co.	12 50
152452	11-13-14		11-24-14	Samuel Weil & Son.....	2 50	153022	9- 8-14	Frank G. Baur	13 21
152451	10-31-14		11-24-14	Great Bear Spring Co.....	4 50	152447	11-24-14	Miss J. A. Cooke	59 16
152449	11- 2-14		11-24-14	E. G. Soltmann.....	21 93	150471	11-20-14	Charles Pickler	15 25
152448	10-29-14		11-24-14	Public Service Cup Co.....	7 00	153027	10-19-14	The Specification Soap and Oil Company, Inc.	16 19
Department of Street Cleaning.						153028	10-15-14	Swan & Finch Company.....	13 00
150015	10-31-14	40737	11-19-14	Thomas Lenane	\$16,342 99	153029	10-31-14	Rockville Centre Garage	2 62
151070		37006	11-20-14	Aymar Embury II.....	79 60	153030	6- 1-14, 11-16-14	Thomson Meter Co.	24 25
151069	10-21-14	39724	11-20-14	John F. Warth.....	56 10	153019	10-29-14	Pittsburgh Meter Company	3 24
151066	11- 4-14	40577	11-20-14	George N. Reinhardt	6,033 16	152393	11-11-14	Adams-Flanigan Co.	12 00
151068	7-30-14	39354	11-20-14	New York Saddlery Co.....	1,117 50	153415	10-13-14	A. F. Brombacher & Co.....	75
151071		34576	11-20-14	E. F. Keating Company.....	187 50	153974	10- 9-14	The Manhattan Supply Company	22 89
151067	10-17-14	38707	11-20-14	Fiss, Doerr & Carroll Horse Co.....	1,425 00	153008	9-30-14	C. W. Copp	1 95
154436	8-12-14		11-28-14	Agent & Warden of Auburn Prison...	39 00	153010	10- 1-14	George Trapp	11 50
154437	7-29-14		11-28-14	Agent & Warden of Auburn Prison...	19 50	153009		George Trapp	11 80
154779				The Relief and Pension Fund of the Department of Street Cleaning, J. T. Fetherston, Commissioner, as Treasurer and Trustee.....	287 68	153015	9-30-14	The Tabulating Machine Company....	63 50
154778			11-30-14	The Relief and Pension Fund of the Department of Street Cleaning, J. T. Fetherston, Commissioner, as Treasurer and Trustee.....	1,091 10	153016	11- 4-14	The Tabulating Machine Company....	63 50
154780			11-30-14	The Relief and Pension Fund of the Department of Street Cleaning, J. T. Fetherston, Commissioner, as Treasurer and Trustee.....	2,092 69	153017	11-16-14	G. F. McKay	5 40
United States Volunteer Life-Saving Corps.						153013	10-31-14	Wallace & Tiernan Co., Inc.....	20 83
154092	11- 1-14		11-27-14	Chas. E. Raynor.....	\$25 20	153014	10-14-14	Wallace & Tiernan Co., Inc.....	8 22
153170			10-30-14	W. Ryder	2 80	153018	10-31-14	Crescent Garage	5 65
153169	10-31-14		11-25-14	Great Bear Spring Co.....	60	152374	8- 6-14	Remington Typewriter Company	2 10
153173	11- 6-14		11-25-14	J. Shearson	26 75	152375	11- 4-14	Foot, Pierson & Co.....	24 65
153172	11- 2-14		11-25-14	M. & A. Borchardt	1 34	153921		Carfagno & Dragonetti, Inc.....	1,719 41
153171	11- 1-14		11-25-14	Henry Grashorn, Inc.....	1 25	150457	10- 2-14	W. P. W. Haff.....	117 00
Board of Water Supply.						152401	11-11-14	The Pitometer Company	7 80
151041		40171	11-20-14	Transit Construction Co.....	\$6,488 77	152406	7-31-14	Frank Smith	4 70
154981			12- 1-14	Frank T. Fitzgerald	200 00	152405		Frank Smith	4 60
154982			12- 1-14	Edward F. Joyce, Jr.....	250 00	152404	9-20-14	Frank Smith	4 90
154983			12- 1-14	Henry W. Wheeler.....	500 00	152403	10-31-14	Frank Smith	5 00
152338	10- -14		11-24-14	Forsyth & Davis	78 00	152408	11-11-14	The Pitometer Co.	6 25
Department of Water Supply, Gas and Electricity.						152409	11- 7-14	Otto Fatscher	56 25
154377			11-28-14	Michael F. Gleason.....	\$75 00	152410	11- 2-14	Frank V. Kelly	10 00
154370			11-28-14	John T. Davison.....	2,586 70	152411	11-11-14	Bishop, McCormick & Bishop, Inc....	83 33
154371			11-28-14	Edwin F. Cornwell.....	351 77	152414	8-31-14	Frank Smith	4 90
154375			11-28-14	Henry P. Libby.....	500 00	152413	9-30-14	Frank Smith	4 95
154372			11-28-14	Charles R. Rope.....	50 00	152415	7-31-14	Frank Smith	4 80
						153032	10-31-14	Rockville Centre Garage	4 20
						150659		S. Tuttle's Son & Co.....	181 50
						150678		Henry E. Fox, or Blandy, Mooney & Shipman, Attorneys	309 03
						150679		Consolidated Gas Co. of New York, Assignee of the United Electric Light and Power Company	3,229 24
								Consolidated Gas Co. of New York, Assignee of the United Electric Light and Power Company	587 19

VOUCHERS RECEIVED IN DEPARTMENT OF FINANCE, THURSDAY, DECEMBER 3, 1914.

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

WILLIAM A. PRENDERGAST, Comptroller.

Finance Voucher No.	Invoice Date or Contract Number.	Name of Payee.	Amount.
City Magistrates' Courts.			
155916	12- 2-14	Jesse Bernhard	\$3 15
155917	11-30-14	Jesse Bernhard	34 05
155918	12- 1-14	Jesse Bernhard	1 25
155919	11-20-14	Hillard Mfg. Co.....	12 00
155920	11-30-14	Hillard Mfg. Co.....	9 75
155921	11-30-14	Monahan Express Co.....	1 50
155925	11- 2-14	Knickerbocker Ice Co.....	22 99
155926	11- 2-14	N. Y. Towel Supply Co.....	29 95
155927	11- 2-14	Nicola Mitarotonda	5 00
155928	11- 2-14	G. Casamassima	4 50
155929	11-20-14	Anso Co.	171 00
155930	11-24-14	J. Reimer	3 25
Supreme Court.			
155922		Banks Law Publishing Co..	99 75
155923		Chas. S. Cook.....	95 00
155924		Lawyers' Co-operation Pub. Co.	15 50
Department of Education.			
155774	39663	Philp & Paul.....	566 50
155775	40227	Philp & Paul.....	945 00
155776	40277	Philp & Paul.....	675 50
155777	39157	Max Klausner	59 50
155778	40557	Leslie Heating Corp.....	2,160 00
155800	40072	Adolph Berengarten	425 00
155801	37159	National Regulator Co.....	475 75
155802	35392	Jas. Harley Plumbing Co..	1,877 24
155803	40455	N. Y. Telephone Co.....	132 30
155804	40455	N. Y. Telephone Co.....	135 00
155808		Louis Guerr	59 00
155809	9-25-14	R. Solomon & Son, Inc., Simon Ressek Assignee	159 00
155810	10- 2-14	Edward J. Belford.....	68 00
155811	9-26-14	Thomas King	25 00

Finance Voucher No.	Invoice Date or Contract Number.	Name of Payee.	Amount.	Finance Voucher No.	Invoice Date or Contract Number.	Name of Payee.	Amount.
155812		Smith & Theis	37 50	155784	11- 9-14	A. A. Schopp	3 22
155713	9-19-14	John A. Scollay	15 00	155785	11- 4-14	Henry Tishman	62 27
155814	10- 7-14	Geo. T. Bason.....	170 00	155786	11-16-14	S. A. B. Downs.....	12 31
155815	9-15-14	H. Schultz	409 00	155787	11-12-14	P. H. Keahon, Inc.....	23 76
155816	9-10-14	Godfrey, Keeler Co.....	15 00	155788	11- 9-14	Henry Grossman	16 57
155817	10- 6-14	Godfrey, Keeler Co.....	60 00	155789	11- 4-14	Henry U. Singhi	17 00
155818	10- 6-14	John H. O'Rourke Co.....	20 00	155790		Receiver of Taxes.....	9 20
155819	9- 1-14	Nathan Frey	23 00	155791	11- 5-14	Samuel Mann	52 50
155820	10- 8-14	Art Wood Novelty Co.....	15 00	155792		John A. Hilliker	5 77
155821	7-31-14	Morris Levi & Co.....	266 00	155793	11- 6-14	Estate of Hellmuth Kranich Co., Hellmuth Kranich, Executor	11 43
155822	10-10-14	M. J. Johnstone	17 00	155794		Receiver of Taxes	19 21
155823	10- 5-14	Jos. A. Graf.....	120 00	155795		Receiver of Taxes.....	3 22
155824	10- 6-14	Edward D. Fox.....	92 00	155796	10-21-14	Paterno Construction Co....	6 80
155825	10- 7-14	James J. Newman.....	19 00	155797	11- 5-14	U. S. Wood Preserving Co.	1 77
155826	10-12-14	Smith & Theis	34 50	155798	11- 5-14	U. S. Wood Preserving Co.	2 83
155827	9- 5-14	Godfrey, Keeler Co.....	74 00	155799	10-14-14	J. S. Shea	23 06
155843	9-28-14	J. Fitzgerald	29 46	155805	11-21-14	Francis Friedman	300 00
155844	8-30-14	Royal Co. of N. Y., Assignee of H. Sacks	24 90	155806	11-23-14	Adigio Manzi or W. A. Swett, Atty.	61 25
155845	10- 3-14	H. Sacks	15 03	155807	11-19-14	Wm. Theisen or F. E. Hipple, Atty.	83 64
155846	8- 3-14	American Ornamental Iron Works	8 45	155974		Chas. Dobres	72 00
155847	10- 9-14	W. H. Quinn	27 10	155984		Fidelity Storage & Warehouse Co.	1,100 00
155848	10- 7-14	J. Yondelmann	34 50	155983		Moses Morday et al.....	150 00
155849	8-31-14	W. H. Quinn	25 00	156024		Mitchell P. Talmage.....	96 26
155850	10- 1-14	Stolz & Greenberg.....	2 55	156061		J. P. Morgan Co. & Kuhn Loeb & Co.....	10,716,850 00
155851	10- 7-14	W. E. Mason	24 90	156173		N. Y. & Cincinnati Realty Co.	1,083 00
155852	10-13-14	J. Sommer	8 00	156174		N. Y. & Cincinnati Realty Co.	233 00
155853	10- 6-14	W. A. Leonard.....	18 06	156175		N. Y. & Cincinnati Realty Co.	337 00
155854	10-14-14	J. L. Fries.....	7 97	156176		N. Y. & Cincinnati Realty Co.	337 00
155855	10-19-14	John Gerrard, Jr.....	45 33	156177		The Bklyn., Manh. & N. J. Realty Co.....	170 00
155856	10- 1-14	D. Krubiner, Assignee of Interborough Guarantee Roofing Co.	45 05	156178		N. Y. & Cinn. Realty Co.....	337 00
155857	9-25-14	D. J. Carey.....	79 22	156179		N. Y. & Cinn. Realty Co.....	236 00
155858	9-30-14	E. J. Belford.....	37 32	156180		N. Y. & Cinn. Realty Co.....	337 00
155859	9-30-14	T. F. McEnaney	42 56	156272		New York & Cincinnati Realty Co.....	337 00
155860	10-10-14	Chas. Williams	122 81	156273		New York & Cincinnati Realty Co.....	745 00
155861	10-17-14	Chas. Williams	30 35	155933		Fire Department.	
155862	9-12-14	E. D. Fox.....	86 59	155934		Robert Adamson.....	\$459 09
155863	10- 2-14	D. J. Carey.....	90 78			Robert Adamson.....	5,012 00
155938	11-13-14	Hugh D. McGrane.....	320 00				
155939	11-13-14	Hugh D. McGrane.....	380 00				
Department of Finance.							
155779		F. Rosenberg	11 19				

Invoice			Invoice			Invoice		
Finance Date	Name of Payee.	Amount.	Finance Date	Name of Payee.	Amount.	Finance Date	Name of Payee.	Amount.
Vouch- or Con- er No. tract Number.			Vouch- or Con- er No. tract Number.			Vouch- or Con- er No. tract Number.		
155943	10- 6-14 The Photoprint Co.....	16 40	156236	11-11-14 Thos. Smith & Son Corp.....	37 10	156160	38883 F. Alfred Reichardt & Co...	11 52
155944	11- 9-14 Keuffel & Esser Co.....	2 97	156237	11-14-14 Pittsburgh Plate Glass Co...	6 40		F. Alfred Reichardt & Co...	3 92
155945	11-14-14 J. & T. Adikes.....	208 21	156238	11-23-14 Bedford Auto Top Co.....	14 00	156161	38927 Schieffelin & Co.....	422 37
155946	10-15-14 B. F. Goodrich Co.....	1 98	156239	10- 8-14 J. I. Snyder & Son.....	1 00		Schieffelin & Co.....	16 00
155947	11- 2-14 Summers Supply Co.....	33 00	156240	6-26-14 Samuel Kaplan.....	3 25	156162	38880 Jas. S. Barron & Co.....	36 32
155948	10- 8-14 Knickerbocker Towel Supply Co.....	44 00	156241	10-22-14 C. R. Macauley Co.....	9 75	156163	38882 Henry Allen.....	129 32
155949	10- 7-14 Amer. Multi Sales Co.....	14 20	156242	10-30-14 Edward Theriault.....	123 00	156164	38926 The Watters Laboratories..	41 00
155950	11- 2-14 F. Fennikoh.....	2 08	156243	11-12-14 Cook Elec. Co.....	3 50	156165	39042 J. B. Greenhut & Co.....	121 98
155951	9-28-14 Photoprint Co.....	9 84	156244	11- 4-14 Cook Elec. Co.....	26 00	156166	39060 J. M. Gottesman.....	43 05
155952	11- 9-14 N. Y. Bottling Co.....	14 40	156245	4-22-14 John Davis Sons.....	152 00	156167	39041 Peter J. Constant.....	536 44
155953	10-19-14 Crown Stamp Works.....	15	156246	10-21-14 A. P. Hogle Co.....	200 00	156168	39019 The Manhattan Supply Co...	393 27
155954	11- 1-14 Great Bear Spring Co.....	1 20	156247	11-23-14 Banks Law Publishing Co...	64 00	156169	37709 Jas. Harley Plumb. Co.....	1,170 00
155955	10-31-14 Knickerbocker Ice Co.....	2 08	156248	11-20-14 Theo. Gaus Sons.....	123 00	156170	33286 Frank H. Quimby.....	15 00
155956	11- 1-14 Elberon Hygeia Ice Co.....	10 90	156249	11-23-14 Hall & Ruckel.....	78	156171	36539 E. Rutzler Co.....	773 36
155957	10-23-14 Prest-o-Lite Co.....	1 50	156250	11-10-14 P. W. Taylor.....	7 00	156172	40764 A. L. A. Himmelywright & H. T. J. Porter.....	900 00
155958	10-24-14 Amer. Type Founders Co...	1 12	156251	10-30-14 Cook Electric Co.....	5 00			
155959	10- 9-14 Linde Air Product Co.....	2 00	156252	10-21-14 Cranford Co.....	67 20	156181	40165 Armour & Co.....	1,649 16
155960	10-28-14 S. F. Hayward & Co.....	187 25	156253	11-12-14 Stevenson & Marsters.....	60 30	156182	40005 Armour & Co.....	568 80
155961	10-28-14 U. S. Graphite Co.....	180 00	156254	11-10-14 Van Brunt Tandy.....	7 00	156183	38361 Burton & Davis Co.....	28 50
155962	11-11-14 E. Dietzgen Co.....	1 00	156255	11-16-14 Stevenson & Marsters.....	1 50	156184	40375 John Bellmann.....	179 64
155963	10-27-14 C. Ten Eick, Inc.....	31 25	156256	4- 1-14 Eimer & Amend.....	47 42	156185	38360 John Bellmann.....	154 37
155964	10-21-14 The Laidlaw Co., Inc.....	4 05	156257	11-16-14 Stevenson & Marsters.....	3 00	156186	38360 John Bellmann.....	30 43
155965	10-21-14 Ford Motor Co.....	12 25	156258	10- 2-14 Barber Asphalt Paving Co...	17 25	156187	39242 John Bellmann.....	41 70
155966	10-14-14 Det. Cadillac Motor Car Co.	4 65	156259	10- 8-14 Brooklyn Alcatraz Asphalt Co.....	89 25	156188	38360 John Bellmann.....	218 36
155967	10-13-14 James C. Nichols, Inc.....	1 20	President, Borough of Queens.			156189	40033 Conron Bros.....	13 06
155968	11-12-14 Buick Motor Co.....	1 40	156088	6- 1-14 Stehlin, Miller, Henes Co...	462 00	156190	39995 Borden Condensed Milk Co.	3,906 00
155969	11- 9-14 Harry S. Hout, Inc.....	9 35	156089	11- 5-14 Jurgen, Rathjen Co.....	21 00	156191	39995 Borden Condensed Milk Co.	3,162 00
155970	11- 7-14 Lowe Motor Supplies Co...	13 30	156090	11- 1-14 Empire State Window Clean- ing and Towel Supply Co...	4 68	156192	38373 Lewis De Groff & Son.....	627 67
155971	11-10-14 Goodyear Rubber Tire Co. of N. Y.....	144 50	156091	11-18-14 Joseph Elliott.....	3 50	156193	38373 Lewis De Groff & Son.....	17 80
155972	10- 8-14 Det. Cadillac Motor Car Co.	3 50	156092	11- 6-14 Banks Law Publishing Co...	6 00	156194	39243 Lewis De Groff & Son.....	76 28
155973	10-13-14 Inter Motor Co.....	10 60	156093	11-20-14 Public Service Cup Co.....	35 00	156195	38373 Lewis De Groff & Son.....	295 90
Department of Health.			156094	11-18-14 J. & T. Adikes.....	8 00	156196	39244 C. H. F. Jurgens.....	37 50
155985	11-19-14 Syndicate Trading Co.....	\$8 80	156095	9-30-14 Crescent Garage.....	11 81	156197	40377 C. H. F. Jurgens.....	952 63
155986	11-11-14 G. E. Stechert & Co.....	1 57	156096	11-20-14 Baron & Beling.....	45 80	156198	40374 Francis H. Leggett & Co...	11 50
155987	9-18-14 The Ohman Map Co., Inc...	33 50	156097	11- 5-14 E. G. Soltmann.....	2 20	156199	39239 Francis H. Leggett & Co...	84 25
155988	11-20-14 Crown Stamp Works.....	1 50	156098	11- 2-14 A. Rudolph.....	4 00	156200	38368 Francis H. Leggett & Co...	18 05
155989	11-24-14 Manhattan Elec. Supply Co.	6 00	156099	6- 2-14 Western Electric Co.....	6 00	156201	38491 R. P. Lawless.....	54 32
155990	10- 1-14 Richmond Ice Co.....	2 00	156100	11-11-14 L. I. Hardware Co.....	6 10	156202	38492 R. P. Lawless.....	214 13
155991	10-29-14 Stewart-Warner Speedometer Corp.....	2 55	156101	11-11-14 Motor Car Equipment Co...	2 00	156203	39994 McDermott Dairy Co.....	99 96
155992	11-19-14 Henry Bainbridge & Co.....	3 00	156102	11- 5-14 Stewart, Warner Speedome- ter Co.....	4 75	156204	40000 Thos. E. McCarty.....	4,516 92
155993	2-14-14 Jessie Tarbox Beals, Inc...	10 00	156103	11-20-14 Henry O. Grieshaber.....	4 70	156205	38936 Rebecca Melicow.....	68 60
155994	10- 1-14 The Tompkinsville Drug Chemical Company.....	2 00	156104	11-17-14 L. I. Hardware Co.....	128 50	156206	40002 R. F. Stevens Co.....	792 83
155995	10-31-14 Municipal Garage.....	1 55	156105	10-23-14 Warren Bros. Co.....	425 00	156207	40257 Armour & Co.....	292 39
155996	S. Dana Hubbard.....	61 70	156106	6- 2-14 Combination Rubber Mfg. Co.....	37 50	156208	40257 Swift & Co.....	1,855 06
155997	11-18-14 The Kny-Scheerer Co.....	40	156107	11-18-14 Cavanagh Bros. & Co.....	8 00	156209	40257 Sulzberger & Sons Co...	143 76
155998	11-11-14 Ajax-Grieb Rubber Co.....	34 26	156108	11-20-14 L. I. Hardware Co.....	10 80	156210	38359 Sulzberger & Sons Co...	866 83
155999	11-20-14 John L. Whiting, J. J. Adams Co.....	18 85	156109	10-28-14 Cavanagh Bros. & Co.....	82 75	156211	38356 Sulzberger & Sons Co...	593 05
156000	11-13-14 A. F. Brombacher & Co....	1 35	156110	11-18-14 Conner, Fendler & Co.....	6 00	156212	39997 Samuel E. Hunter.....	119 35
156001	11-23-14 Syndicate Trading Co.....	1 50	156111	11-18-14 Robert A. Welcke.....	222 00	156213	39997 Henneberger & Herold...	1,065 02
156002	11-23-14 Harris Gruszinsky.....	2 50	156112	11-18-14 Conner, Fendler & Co.....	12 60	156214	38365 John Moonan.....	292 12
156003	8-12-14 Underwood Typewriter Co., Inc.....	50	156113	9-18-14 L. I. Hardware Co.....	7 50	156215	39471 Bacon Coal Co.....	33 00
156004	9-10-14 L. C. Smith & Bros. Type- writer Co.....	50	156114	11-16-14 E. E. Buhler Co.....	40 00	156216	39700 Chas. D. Norton Co.....	790 97
156005	10- 9-14 Underwood Typewriter Co., Inc.....	1 75	156115	11-17-14 Duncan & Michels.....	230 00	156217	39999 Foster Scott Ice Co.....	39 11
156006	10- 1-14 The Superior Dental Sup. Co.....	27 59	156116	10-19-14 E. R. Mill & Lumber Co...	207 34	156218	39998 Knickerbocker Ice Co.....	601 69
156007	12- 3-14 Armour & Company.....	18 84	156117	11-11-14 L. I. Hardware Co.....	2 00	156219	39020 Standard Oil Co. of N. Y...	25 76
156008	9- 1-14 Eimer & Amend.....	33 20	156118	11-23-14 Upper Hudson Stone Co...	159 79	156220	39061 The Manhattan Supply Co...	37 23
156009	10-24-14 James S. Barron & Co.....	28 50	156119	11-20-14 L. I. Hardware Co.....	3 15	156221	39578 Jas. M. Shaw & Co.....	249 86
156010	11-18-14 Whittall, Tatum Co.....	42 12	156120	11- 1-14 L. I. Vacuum Cleaning Co...	4 75	156222	38938 G. C. McKesson.....	116 50
156011	10-28-14 J. M. Thorburn & Co.....	26 20	156121	11-19-14 Remington Typewriter Co...	12 50	156223	38925 Metropolitan Hospital Supply Co.....	9 80
156012	11-17-14 Miller, Tompkins & Co...	8 55	156122	11-5-14 Bausch & Lomb Optical Co.	11 25		Metropolitan Hospital Supply Co.....	357 68
156013	11-10-14 Agent and Warden, Sing Sing Prison.....	3 95	156123	11-9-14 T. C. Moore & Co.....	3 10		Metropolitan Hospital Supply Co.....	259 14
156014	11-16-14 Agent and Warden, Clinton Prison.....	1 50	156124	11-5-14 Madison Avenue Stables, J. H. Connell.....	10 00	156224	38928 The Miller Rubber Co. of New York.....	331 50
156015	9-25-14 Bloomingdale Bros.....	107 98	156125	11-12-14 John Keinath.....	3 50	156225	38879 Murray Oxygen Co.....	32 00
156016	11- 9-14 Agent and Warden, Auburn Prison.....	20 10	156126	11-10-14 Freeman & Grady.....	16 00	156226	38878 John Greig.....	5 41
156017	11-19-14 Bausch & Lomb Optical Co.	30 90	156127	11-20-14 E. R. Merrill Spring Co...	9 00	156227	39332 E. R. Squibb & Sons.....	96 40
156018	11-16-14 Gifford-Wood Co.....	3 00	156128	11-13-14 Baker, Voorhis & Co.....	7 50	156228	38933 Standard Oxygen Co.....	95 00
156019	10-17-14 Jenkins Bros.....	19 45	156150	11-18-14 Montross & Clark.....	56 60	Commissioner of Records, New York County.		
156020	11-14-14 F. E. Whitnev.....	9 00	156151	J. H. Connell, Madison Ave- nue Stables.....	80 00	156271	12- 1-14 Public Cup Co.....	14 00
156021	10-29-14 Atlantic Basin Iron Works.	98 00	156152	7-16-14 Langton Co.....	21 90	Sheriff, Queens County.		
156022	7-21-14 The Oliver Typewriter Co...	11 10	President of the Borough of Richmond.			155931	Thos. F. Adams.....	257 57
156023	Marion B. McMillan, M. D.	37 15	156066	4-27-14 T. Hanrahan & Co.....	9 20	155932	Thos. F. Adams.....	218 15
Public Administrator, Bronx County.			156067	6-27-14 Underwood Typewriter Co.	7 85	Sheriff, Richmond County.		
155865	Nicholas Gless.....	\$1 75	156068	Austrian Pencil Co. of Ho- boken, N. J.....	2 00	155869	12- 1-14 Thos. E. Haley.....	5 50
155866	C. G. Braxmar Co.....	3 50	156069					

Invoice			Invoice			Invoice		
Finance Date	Vouch- or Con- tract	Name of Payee.	Finance Date	Vouch- or Con- tract	Name of Payee.	Finance Date	Vouch- or Con- tract	Name of Payee.
Number.	Number.	Amount.	Number.	Number.	Amount.	Number.	Number.	Amount.
156064	25241	MacArthur Bros. Co.....	155876	39117	Bklyn. Union Gas Co.....	155891	39890	N. Y. & Queens Electric
156065	34524	Thos. O'Hern	155877	39120	Brooklyn Borough Gas Co..			Light & Power Co.....
156071		School Dist. 9, Town of	155878	39122	Jamaica Gas Light Co.....			N. Y. & Queens Electric
		Greenburgh, N. Y.....	155879	39124	Newtown Gas Co.....			Light & Power Co.....
156072		School Dist. 1, Town of	155880	39121	Woodhaven Gas Light Co..	155892	39116	Welsbach Street Ltg. Co. of
		Hurley, N. Y.....	155881	39118	Flatbush Gas Co.....			America
156073		School Dist. 6, Town of	155882	39119	Richmond Hill & Queens Co.	155893	39125	New York & Richmond Gas
		Hurley, N. Y.....			Gas Light Co.....			Co.....
156074		School Dist. 2, Town of	155883	39115	Welsbach Street Lighting Co.	155894	39118	Flatbush Gas Co.....
		Marbletown, N. Y.....	155884	39115	Welsbach Street Lighting Co.	155895	39120	Bklyn. Borough Gas Co.....
156075		School Dist. 11, Town of	155885	39117	Bklyn. Union Gas Co.....	155896	39969	Flatbush Gas Co.....
		Marbletown, N. Y.....			Bklyn. Union Gas Co.....	155897	40394	N. Y. & Queens Gas Co.....
156076		School Dist. 3, Town of	155886	39120	Bklyn. Borough Gas Co.....	155898	39125	N. Y. & Richmond Gas Co..
		Montgomery, N. Y.....			Bklyn. Borough Gas Co.....	155899	39120	Bklyn. Borough Gas Co.....
156077		School Dist. 9, Town of	155887	39118	Flatbush Gas Co.....	155900	39118	Flatbush Gas Co.....
		Olive, N. Y.....			Flatbush Gas Co.....	155901	39969	Flatbush Gas Co.....
156078		Remington Typewriter Co..	155888	39145	N. Y. & N. J. Globe Gas	155902	39125	N. Y. & Richmond Gas Co..
156079		The New Paltz Times.....			Light Co.....	155903	39326	Edison Electric Ill. Co. of
					N. Y. & N. J. Globe Gas			Bklyn.
Department of Water Supply, Gas and Electricity.					Light Co.....	155904	39888	The Trustees of Columbia
155872	31577	The Diamond Rubber Co. of	155889	17569	Kings County Lighting Co..			University in the City of
		N. Y.....			Kings County Lighting Co..			New York
155873	40020	John E. Donovan.....	155890	39969	Flatbush Gas Co.....	155905	39855	N. Y. Tel Co.....
155874	40556	Knickerbocker Supply Co..			Flatbush Gas Co.....	155906	38367	Shaw Walker Co. of N. Y..
155875	39969	Flatbush Gas Co.....			Flatbush Gas Co.....			

DEPARTMENT OF PARKS. BOROUGH OF THE BRONX.

REPORT FOR THE QUARTER ENDED MARCH 31, 1914.

Bronx Park (Zoological Park).

The foundations and framing of shelter building have been completed, and concrete floors are being laid. The building will be finished early in the summer.

The Public Service Building was completed during the fall of 1913, with the exception of a portion of the electric work, and various other small items. The work will be completed by open market order, and the expense charged to the contractors' bondsmen in consequence of inability on part of contractors to complete the work.

Pelham Bay Park.

In this park, a survey and lay out was made by the Engineering force, of tent sites for about 300 tents.

Two additional bathing pavilions were added to the bathing station at the athletic field, each containing 16 dressing booths and 184 lockers.

At the Orchard Beach bathing station, also, an addition of two bathing pavilions has been made, similar to those erected at the athletic field station, each containing 14 dressing booths and 176 lockers.

Van Cortlandt Park.

A complete topographical survey was made of the marsh lands in the southwest corner of this park. A map, cross sections and estimate of the quantity of fill required for filling in and grading these marsh lands, were made, with a view to eliminating the mosquito nuisance at this site.

A large circular bowl lined with sea-green tile, and with a marble coping of classical lines, replacing the old granite coping, was placed around the handsome marble fountain in the Colonial Garden, presented to the City of New York by Mrs. Frederick F. Thompson.

Addition to the Colonial Mansion.—On the annex to the Colonial Mansion, the excavations have been made and the foundation has been completed; the new walls have been carried above grade; the water pipes have been laid; and the old chimney has been taken down and replaced with a new one.

General Maintenance Work.

The skating ponds in Van Cortlandt, Bronx and Crotona Parks were cleaned every day during the skating season, and afforded amusement for some 5,000 skaters a day for 26 days during the season.

During the severe storms, almost the entire laboring force was kept busy shoveling snow from the roadways, paths, etc. The sidewalks from Kingsbridge to the Yonkers line on Broadway were ploughed and shoveled, also the sidewalks from Moshulu Parkway to the City Line, on Jerome Avenue. During the month of February, in a very heavy storm, the snow drifted on Pelham Parkway from 6 to 8 feet high; all the roads and paths had to be opened; and the parkway had to be gone over every day for a week.

In the nursery in Van Cortlandt Park, 35,530 cuttings of deciduous shrubs were made and cared for; and 20,000 trees and shrubs were pruned.

In the greenhouses in Bronx Park, 100,000 plants were propagated and cared for; also 40,000 pansies and 30,000 daisies, or Bachelor Buttons were cared for in cold frames, for planting in the various parks in the spring.

Care of Trees in City Streets.

During the past quarter, almost 3,000 trees were pruned; some 250 applications for investigation of dead or dangerous trees, and those needing pruning, were attended to; 57 dead and dangerous trees were removed; and some 350 trees sprayed.

Forestry Work.

Five thousand dead hickory and chestnut trees were removed, under the supervision of this department, on the contract with George Valentini, for removing dead trees from the park, for which he pays to the City 4 cents per running foot for posts, and \$2 per cord for the cord wood.

Cost Accounting System.

A system of accounts has been installed which will keep accurate, detailed records of all the department's activities. This will show the record cost of material, where and how much material is used, the number of the job, the number of men employed, time employed, rate of compensation, etc.

Construction Work Under Way or Completed.

Public Service Building in the Zoological Park; elephant house roof in the Zoological Park; Shelter Pavilion in the Zoological Park; annex to the Colonial Mansion in Van Cortlandt Park; installing steam heating plant in the annex to the Colonial Mansion in Van Cortlandt Park; installing plumbing, drainage and water supply system in the annex to the Colonial Mansion in Van Cortlandt Park.

Supply Contracts.

One thousand cubic yards of sand; timber (No. 1, 1914); painters' supplies (1914); hardware (1914); forage (No. 1, 1914); plumbers' materials (1914); 2,000,000 pounds anthracite pea coal (No. 1, 1914, Botanical Garden); 800,000 pounds anthracite egg coal; for repairing and keeping in repair the motor, horse and hand lawn mowers; broken stone and screenings (No. 1, 1914).

Plans, Specifications, Etc., Prepared.

Specifications and advertisements, etc., for coal, timber, sand, broken stone and screenings, painters' supplies, hardware, forage, plumbers' materials.

Blueprinting—Various comfort stations in the different parks for the Department of Finance.

Plans, Elevations and Sections—Bath houses, Orchard Beach and athletic field bathing stations, in Pelham Bay Park. Application to Building Department for the same.

Plan of Jerome Avenue, opposite the entrance to Woodlawn Cemetery. Established grades and lines wherever necessary in repair or maintenance work. Supervised construction of Shelter Pavilion, Public Service Building and repairs to elephant house roof in the Zoological Park, in Bronx Park.

Measured containers and calculated quantities of all broken stone, screenings, gravel, sand, etc., delivered on various contracts.

Expenditures During the Quarter—Appropriations, 1914, and Corporate Stock Funds.

New York Botanical Garden:	
Appropriations, 1914	\$14,000 87
New York Zoological Garden:	
Appropriations, 1914	27,117 42
Corporate Stock Funds	6,472 32

Total

Grand Total

Receipts.

Rents, \$548; privileges, \$3,790.69; lockers, \$2,765; auction sale (wood), \$200; sales (empty barrels), \$16.40; permits (moving pictures), \$5. Total, \$7,325.09.

REPORT FOR THE QUARTER ENDED JUNE 30, 1914.

Bronx Park.

During the past quarter the walks and approaches to this park have been completed and put in first-class condition. An eight-foot walk of screenings on telford foundation, connecting the bridge with the existing system of walks has also been constructed. This new walk leads through one of the most beautiful sections skirting the Bronx River on the side opposite the greenhouses and the Alpine Garden. It practically completes the walk system of that portion of the park.

ZOOLOGICAL PARK, BRONX.

Shelter Building. This building is practically completed, with the exception of some special pattern hardware which there seems to be some trouble in obtaining. The building has been used on several occasions when the park has been crowded.

Pelham Bay Park.

In this park the usual maintenance work was carried on, in addition to putting in good playing condition the golf course, the tennis courts and the baseball diamonds. The work on the addition to the bathing pavilions at the athletic field and Orchard Beach was completed.

The City Island Road was picked up with the steam road roller, re-rolled and covered with oil, from the City Island Station to the City Island Bridge, a distance of about 1.4 miles.

On the golf links in this park, a portable house 18 feet by 24 feet was erected near the first tee, for the use of the caddy boys, and to be used as a shelter for the golfers in case of storms.

Van Cortlandt Park.

Addition to Colonial Mansion. On the annex to the Colonial Mansion, the walls were completed to receive the floor and roof beaming; the floor and roof beaming were set in place; and the roof was enclosed. The building will probably be completed in the early fall.

Grand Avenue, from the polo stables to Broadway, was picked up with the steam road roller, and the surface was crowned, rolled and covered with a heavy asphaltic oil binder. The road was in a very bad condition; the heavy ten-ton automobile trucks used constantly on this road for hauling cement to the Catskill Aqueduct shaft had rendered the road practically impassable for ordinary vehicles, and it was necessary to thoroughly overhaul it. The Aqueduct shaft is nearing completion, but the re-surfacing has already failed in many places, and will last for only a short time; and as soon as the heavy auto trucks have ceased to use it, the road will have to be re-surfaced again.

In the Colonial Garden, 100,000 tulip bulbs were removed and replaced with summer flowering plants, 453,000 plants being used.

In the nursery, 7,500 shrubs were transplanted into newly made fields; 5,623 shrubs and 365 trees were dug and shipped from the nursery, for planting in the various parks; 35 acres of newly improved park land were graded and seeded; 60,000 evergreen cuttings were planted out of the frames into the open ground, for permanent planting; and the entire nursery was sprayed to eliminate the insect pests.

Until recently, there has been but one 18-hole golf course in Van Cortlandt Park. Another golf course is now being built, which will occupy about 60 acres.

McComb's Dam Park.

The athletic field in this park has been put in first-class condition; the field was cleared of stone and other rubbish; the running track was re-surfaced, and the ground inside of the track was covered with 250 yards of top soil, and seeded down; sand boxes for high and broad jumps were built, also pits and circles for hammer and shot and discus throwers; and the field was thoroughly equipped as an up-to-date athletic field. A path 340 feet long and 10 feet wide was built of trap rock and screenings, outside of the running track; a stone wall 117 feet long and 3 feet high, with steps 12 feet wide, and carried to the top of the wall, was built between the house and the track; the land in the rear of the wall was graded and top soiled, 400 yards of top soil being used, and the same was seeded.

The comfort station in the north end of the athletic field has been put in first-class condition, the drainage has been improved, new walks have been constructed leading to the building, and the adjacent grounds have been planted and embellished.

Between Jerome Avenue and the Central Bridge, in this park, west of the N. Y. C. & H. R. R. tracks, the grounds have been leveled up and filled in; the surface has been given at least one foot of good loam; and, upon the lands so improved, ten new tennis courts have been installed, to replace those destroyed when these lands were filled in.

During the past quarter 400 feet of new walks 18 feet wide have been built; a path 150 feet long and 8 feet wide was made at 161st Street, and the ground under the bridge was filled in and graded.

Crotona Park.

The department has begun work on a road leading from Crotona Park East to Crotona Park North. The stone steps in front of the Municipal Building, in this park, have been pointed and re-set; the cobble gutters in the westerly part of the park have been relaid; the tennis courts and baseball diamonds have been cleaned, marked and put in first-class condition for the beginning of the season. Over 100

loads of rubbish from the snow piles which had been dumped in this park by the Street Cleaning Department, during January and February, were cleaned up and removed. The paths in the east side of the park were re-surfaced with screenings hauled from the department stone crusher; and the holes in Crotona Parkway were filled in and repaired with trap rock.

Devoe Park.

This park of 6 acres, which is bounded by Fordham Road, 180th Street, and Sedgwick and University Avenues, has been practically finished during the last two months. All of the top-soiling, planting, sodding and seeding have been completed, and there remains but a small part to be completed along Fordham Road, where the work of widening the street has prevented the planting and seeding. On the southerly side of the park the bank was filled in, about 2,000 cubic yards of good, clean fill being furnished, free of cost to the City, by contractors, and this filled in portion was covered with 125 yards of top soil, and seeded into lawns. Hundreds of trees, and shrubs have been planted.

St. Augustine Park.

In this small park of 0.2 of an acre, which is located at the junction of 166th Street and Fulton and Franklin Avenues, a very dangerous and unsightly wall has been removed, and in the rear of the line where this wall stood, we are at present grading the ground on the westerly side of the park.

Greenhouses—Bronx Park.

In the greenhouses, cold frames holding 200,000 plants were filled and planted; 40,000 pansies and 35,000 daisies were planted in various parks and squares; 3,000 fall flowering plants were propagated and potted; 200 evergreen trees were planted on the hill back of the greenhouses; 40,000 bedding plants of different varieties were planted in the parks and squares; 50,000 bedding plants were planted in the Bronx Park Sunken Gardens; 20,000 plants were planted at the greenhouses for stock; 35,000 tropical plants were planted and repotted; 90,000 plants were packed and shipped to the Colonial Gardens. The Park Department also furnished during this quarter thousands of plants, trees, shrubs, cut flowers, etc., to several of the other City Departments; 5,000 were packed and delivered to the various Public School gardens; 10,000 plants were packed and delivered to the Department of Bridges, and planted on the various bridges in The Bronx by Gardeners from this Department; flower beds were planted around the Westchester Court House, and the Municipal Courts of the borough were kept decorated with cut flowers and flowering plants. On Arbor Day, 35 trees were furnished to different schools in the borough, and were planted by the department Gardeners.

Care of Trees in City Streets.

During the quarter, 6,843 trees were sprayed in the City streets; 710 trees were pruned; 112 trees were planted on the Mount Vernon Avenue side of Van Cortlandt Park, and 162 dead trees were removed.

Farm Gardens.

During the quarter, several school farm gardens were laid out and arranged for the children to plant vegetables, flowers, etc., among them being one in St. Mary's Park, one at Moshulu Avenue South, one on Jerome Avenue, one on Hunter Island and one on Coster Street. At the St. Mary's Park garden a small house was erected to be used as a shelter and for the storage of the garden tools; this house was removed from Van Cortlandt Park.

Playgrounds.

A playground in Fulton Park, north of 169th Street, in the rear of Public School No. 2, has been planned and is now being fitted up. This is a park of 11.6 acres, in a populous district, which is used by many who live in its vicinity, and especially by the school children. On three sides of this park a walk ten feet wide is being constructed, along which will be placed a sufficient number of benches.

General Maintenance Work.

A vast amount of routine maintenance work was done during the past quarter in all of the parks of the borough, consisting of repairing roads, cutting grass, picking up paper and refuse, sweeping walks, spraying and pruning trees, the care of comfort stations, bathing beaches, etc.

Five automobile lawn mowers, fifty-four horse machines and one hundred and twenty hand mowing machines have been kept constantly busy on account of the frequent spring rains.

About 25 men have been kept constantly employed on the three golf courses every day, cutting the grass, giving out the tickets and supervising the caddies. About 1,200 players have been accommodated every day on these three golf links.

At the bathing beaches, 16 Attendants—men and women—are employed every day during the season, and at all of the comfort stations men and women Attendants are kept busy for 16 hours every day, making two shifts necessary, one for the day and one for the evening up to 10 o'clock.

Bronx Park Shops.

The work in the repair shops has been quite heavy during the past quarter, the following repair and construction work having been done:

Three tool houses built, a house built for automobile lawn mowers, a house moved from Bronx and Pelham Parkway to the golf links in Pelham Bay Park for the use of the caddy master and caddies; a house moved from Van Cortlandt Park to St. Mary's Park for the use of the school garden Attendant, and as a tool house for garden tools; 18 flags and 18 cups made for the new golf links in Van Cortlandt Park, six tee frames repaired, sand boxes and flags painted and varnished for the golf links in Pelham Bay Park; two tee frames built for the old golf links in Van Cortlandt Park, two bath houses erected, each containing 252 lockers; 300 park benches painted, repairs made to office building in Claremont Park, 10,000 feet of water pipe with stand pipes, laid; drinking fountains repaired, 1,725 feet of pipe fence built; rail fences repaired, fittings for carriages and other equipment made, wagons and other running stock repaired and painted; comfort station in St. Mary's Park painted, platform built for bath houses at Pelham Bay Park, outside of mansion in St. Mary's Park painted, repairs to cement floors in several park buildings, tablet erected at Old Fort Number Four Park, tree pruning and cutting implements filed and set, sprinkling wagons, steam pipes and pipe rail fences painted.

Permits.

The number of permits for various sports in the parks of the borough, up to the present time, is as follows: Golf, 4,168; tennis, baseball, May parties, outings, etc., 6,500; camping, 250; miscellaneous, 75.

Construction Work Under Way or Completed.

Public service building in the Zoological Park, shelter pavilion in the Zoological Park, annex to the Colonial Mansion in Van Cortlandt Park, steam heating plant in the annex to the Colonial Mansion in Van Cortlandt Park, plumbing, drainage and water supply system in the annex to the Colonial Mansion in Van Cortlandt Park.

Supply Contracts.

1,000 cubic yards of sand, timber (No. 1, 1914), painters' supplies (1914), hardware (1914), forage (No. 1, 1914), plumbers' materials (1914), 2,000,000 lbs. anthracite pea coal (No. 1, 1914, Botanical Garden), 800,000 lbs. anthracite egg coal, for repairing and keeping in repair the motor, horse and hand lawn mowers, broken stone and screenings (No. 1, 1914), coarse sand, grits (1914), refined coal tar (1914), 520,000 lbs. anthracite egg coal (No. 2, 1914), 800 cubic yards grits (No. 2, 1914), 1,200 cubic yards 1½-inch broken stone (No. 2, 1914).

Plans, Specifications, Etc., Prepared.

Plans, elevations, sections and specifications for heating system to comfort stations, McComb's Dam Park and Van Cortlandt Park.

Plan in duplicate of roads, paths, comfort stations, athletic fields, etc., in the entire park system.

Part plan of Crotona Park, showing existing elevations, proposed new drainage system and proposed fill.

Location plan, scale and full size details in connection with Maine tablet, McKinley Square; also application in duplicate to Art Commission.

Plan and elevation in color of proposed comfort station at the junction of Third and Tremont Avenues, Crotona Park.

Plan showing proposed improvement to triangle, Southern Boulevard, Crotona Avenue and Pelham Avenue; also planting plan.

Plan of drainage, Crotona Park, Tremont Avenue, Arthur Avenue, East 177th Street.

Proposed colonial garden, Poe Park.

Revised plan showing relation of subway entrances to park, East 163rd Street, Hunts Point Road, Whitlock Avenue, Route 19 and 22, for public service.

Planting plan, colonial garden, Van Cortlandt Park.

Plan showing proposed paths, Sedgwick Avenue, Summit Avenue, Ogden Avenue and Jerome Avenue, McComb's Dam Park.

Plan for proposed lighting of running track, McComb's Dam Park.

Expenditures During the Quarter—Appropriations, 1914, and Corporate Stock Funds.

New York Botanical Garden—	
Appropriation, 1914	\$27,384 63
Corporate Stock Funds	49 40
Total	\$27,434 03
New York Zoological Garden—	
Appropriations, 1914	\$53,051 76
Corporate Stock Funds	3,952 68
Total	\$57,004 44
Grand total	\$84,438 47

Receipts.

Rents, \$415.00; privileges, \$3,320.08; lockers, \$1,145.00; sales (empty barrels), \$58.86; permits to play golf, \$4,264.50; permits (moving pictures), \$160.00; total, \$9,363.44.

METEOROLOGICAL OBSERVATORY OF THE DEPARTMENT OF PARKS.

Abstract of Registers from Self-Recording Instruments for the Week Ending November 7, 1914.

Central Park, The City of New York—Latitude, 40° 45' 58" N. Longitude, 73° 57' 58" W. Height of Instruments Above the Ground, 53 Feet; Above the Sea, 97 Feet.

Under Supervision of U. S. Weather Bureau, James H. Scarr,

District Forecaster, Acting Director.

Barometer.

Date.	7 a. m.	2 p. m.	9 p. m.	Mean for the Day.	Maximum.	Minimum.
November.	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.
Sunday,	1 49 29.97	69 29.82	58 29.75	29.85	50 29.98	5 a. m. 55 29.73
Monday,	2 51 29.66	63 29.61	51 29.76	29.68	47 29.79	12 p. m. 65 29.60
Tuesday,	3 41 29.87	58 29.77	56 29.77	29.80	44 29.90	8.30 a. m. 57 29.75
Wednesday,	4 52 29.74	76 29.57	63 29.59	29.63	54 29.77	0 a. m. 75 29.53
Thursday,	5 49 29.72	56 29.66	50 29.76	29.71	46 29.77	12 p. m. 57 29.66
Friday,	6 42 29.84	50 29.89	43 30.04	29.92	42 30.04	12 p. m. 46 29.77
Saturday,	7 38 30.15	51 30.05	53 29.92	30.04	48 30.16	9 a. m. 54 29.87
Mean for the week						29.80 inches
Maximum for the week at 9 a. m. November 7th						30.16 inches
Minimum for the week at 3 p. m. November 4th						29.53 inches
Range for the week						0.63 inch

Thermometers.

Date.	7 a. m.	2 p. m.	9 p. m.	Mean.	Maximum.	Minimum.
November.	Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.
Sunday,	1 49 43	69 53	58 47	59 48	69 3 pm	53 2 pm
Monday,	2 51 49	63 51	51 45	55 48	65 12 noon	51 12 pm
Tuesday,	3 41 37	58 48	56 49	52 45	59 3 pm	41 5 pm
Wednesday,	4 52 49	76 56	63 47	64 51	76 2.10 pm	56 2 pm
Thursday,	5 49 41	56 44	50 42	52 42	58 11.55 am	44 2 pm
Friday,	6 42 38	50 45	43 37	45 40	50 2 pm	42 12 pm
Saturday,	7 38 35	51 43	53 47	47 42	54 12 pm	47 9 pm
Mean for the week					53.4 degrees	45.1 degrees
Maximum for the week at 2.10 p. m. Nov. 4th					76 degrees	at 2 p. m. Nov. 4th. 56 degrees
Minimum for the week at 6 a. m. Nov. 7th					38 degrees	at 7 a. m. Nov. 7th. 35 degrees
Range for the week					38 degrees	21 degrees

Wind.

Date. November.		Direction. 7 a.m. 2 p.m. 9 p.m.		Velocity in Miles.										Force in Pounds per Square Foot.													
				9 p.m.			7 a.m.			2 p.m.			to	for the			7 a.m.			2 p.m.			9 p.m.			Max.	Time.
				to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
Sunday,	1	SW	SW	SW	74	49	44	167	1/2	1 1/4	1	1 1/2	1 1/2	5.45 a.m.													
Monday,	2	SW	W	NW	68	76	91	247	1 1/2	4 1/2	2 1/2	6 1/2	4.30 p.m.														
Tuesday,	3	W	SW	SW	87	47	46	168	1/4	1 1/4	1	2	2.40 a.m.														
Wednesday,	4	SW	SW	W	70	62	71	208	1/2	2	1	4 1/2	3.30 p.m.														
Thursday,	5	SW	W	W	77	87	89	262	1 1/2	5	2	7	3 p.m.														
Friday,	6	W	NW	W	96	92	70	243	1 1/4	4 1/2	0	5	3.10 p.m.														
Saturday,	7	NW	S	S	46	28	71	149	0	1/2	5	5	8.25 p.m.														
Distance traveled during the week.....													1,444 miles														
Maximum force during the week.....													7 pounds														

Hygrometer.

Date.	Force of Vapor.	Relative Humidity.	Clear.	0	Overcast.	10
November.	7 a. m. 2 p. m. 9 p. m. Mean.	7 a. m. 2 p. m. 9 p. m. Mean.	7 a. m. 2 p. m. 9 p. m.			
Sunday,	1 .199 .191 .178 .189	61 30 42 44	0			4 Ci.St.
Monday,	2 .321 .216 .220 .252	85 42 62 63	7 A.St.	9 St.Cu.	8 St.Cu.	
Tuesday,	3 .168 .203 .235 .209	69 45 58 57	7 Ci.St.	3 Ci.St.	1 Ci.St.	
Wednesday,	4 .308 .184 .112 .201	81 25 25 44	5 A.St.	8 A.St.	3 Ci.	
Thursday,	5 .153 .131 .162 .149	49 36 49 45	0	10 St.Cu.	10 St.	
Friday,	6 .177 .234 .142 .184	65 46 57 56	4 A.Cu.	7 Cu.	0	
Saturday,	7 .165 .173 .244 .194	75 52 64 64	0	9 St.Cu.		

Rain and Snow.

Date.	Time of Beginning.	Time of Ending.	Duration.	Amount of Water.	Depth of Snow.
November.					
Sunday,	1				
Monday,	2 About 4.10 a. m.	About 4.55 a. m.	0 h. 35 m.	.10 in.	
Tuesday,	3				
Wednesday,	4				
Thursday,	5				
Friday,	6				
Saturday,	7 1.35 p. m.	1.45 p. m.	0 h. 10 m.		
Total amount of water for the week .....				.10 inch	
Duration for the week				45 minutes	

Date.	7 a. m.	2 p. m.
Sunday, November 1st	Clear, pleasant	Partly cloudy, pleasant
Monday, November 2d	Partly cloudy, pleasant	Cloudy, mild
Tuesday, November 3d	Partly cloudy, pleasant	Clear, pleasant
Wednesday, November 4th	Cloudy, mild	Cloudy, pleasant
Thursday, November 5th	Clear, mild	Cloudy, mild
Friday, November 6th	Partly cloudy, chilly	Partly cloudy, mild
Saturday, November 7th	Clear, pleasant	Cloudy, mild

Fire Department.

Abstract of Transactions from November 2 to 7, 1914.

NOVEMBER 2.

Appointed—To take effect 9 a. m. November 2: Benjamin Ascher as Engineering Inspector, Bureau of Fire Prevention, Division of Inspection, Manhattan, Bronx

and Richmond, at rate of \$1,350 per annum. To take effect 8 a. m. November 4: Eugene Hagmeyer, as Harnessmaker, Bureau of Repairs and Supplies, Division of Apparatus, Brooklyn and Queens, for a temporary period of two months, at rate of \$4 per diem.

Transferred—To take effect 9 a. m. November 2: Process Server, John L. Dunn,

Law Department, Bureau of Tenement Houses, to this Department in a similar capacity, at rate of \$1,200 per annum, pursuant to Civil Service Rule XIV. Machinist, Dennis G. Kennedy, Department of Water Supply, Gas and Electricity, to this Department in a similar capacity, at rate of \$4.50 per diem, pursuant to Civil Service Rule 19.

Fires Reported Week Ended October 31—Manhattan, Bronx and Richmond, 230; Brooklyn and Queens, 132.

Resigned—To take effect 8 a. m. November 4: Automobile Engineman Henry W. Miller, Bureau of Fire Alarm Telegraph, Brooklyn and Queens.

NOVEMBER 4.

Trials—The following penalties were this day imposed and other action taken as result of trials held October 28 before the Deputy Fire Commissioner, Brooklyn and Queens: Captain Alphonsus J. O'Bryon, Engine Co. 284, for conduct prejudicial to good order and discipline; reprimanded. Fireman Thomas J. O'Mara, Engine Co. 259, for being under the influence of liquor, drug or compound; all recreation leaves under Section 154, Rules and Regulations, to be withheld for a period of fifteen days from 8 a. m., November 5. Fireman Martin J. Cavanagh, H. & L. Co. 131, for absence without leave; sentence suspended.

Charge Dismissed—(Tried before the Deputy Fire Commissioner, Brooklyn and Queens, October 28): Captain Alphonsus J. O'Bryon, Engine Co. 284, for conduct prejudicial to good order and discipline.

Opening of Proposals—For furnishing and applying eight gasoline propelled tractors (5 for steam fire engine and 3 for hook and ladder trucks): 1, Front Drive Motor Co., Hoboken, N. J., \$28,800.

For furnishing and applying 10 gasoline propelled tractors (7 for steam fire engines and 3 for hook and ladder trucks): 1, Front Drive Motor Co., Hoboken, N. J., \$36,000.

Award of contracts deferred.

NOVEMBER 5.

Trials—The following penalties were imposed and other action taken as result of trials held November 4, before the Fire Commissioner: Fireman Henry J. Gerrity, Engine Co. 88, for refusal within 30 days to settle an indebtedness incurred for necessities, in violation of Section 103, Rules and Regulations of 1912, and for conduct prejudicial to the good reputation, order and discipline of the Department. On the first charge, all recreation leaves under Section 154, Rules and Regulations, to be withheld for a period of 25 days from 8 a. m., November 6th; on second charge, sentence suspended. Fireman Joseph S. Beckingham, Hook and Ladder Company, No. 29, for disobedience of orders. All recreation leaves under Section 154, Rules and Regulations, to be withheld for a period of 25 days from 8 a. m., November 6.

Charge Dismissed—(Tried before the Fire Commissioner November 4, 1914.) Fireman Arthur F. Leonard, Engine Company No. 92, for reckless handling of steering wheel.

NOVEMBER 6.

Appointed—To take effect 8 a. m., November 8, 1914: Ununiformed Fireman Joseph I. Riley, Hook and Ladder Company No. 34, a fourth grade Fireman, at rate of \$1,000 per annum, with assignment to Hook and Ladder Company No. 34.

Extension of Time Granted—To Richard D. Borsmann, until September 5, 1914, on contract dated January 23, 1914, for furnishing and delivering forage to companies at Rockaway Beach, Arverne and Far Rockaway, Borough of Queens. To Richard D. Borsmann, until September 16, 1914, on contract dated January 23, 1914, for furnishing and delivering forage to companies at Jamaica, Richmond Hill, Flushing and College Point, Borough of Queens.

Bills Audited—Contracts, \$5,687.08.

Payrolls Audited—Payrolls, first half of the month of November, 1914, aggregating \$48,018.01, daily audited, were this day forwarded to the Department of Finance.

NOVEMBER 7.

Trials—The following penalties were imposed and other actions taken as result of trial held before the Fire Commissioner on dates specified:

October 29, 1914—Fireman John D. Leamy, Engine Company No. 39, for disobedience of orders and absence without leave. On second charge, all recreation leaves allowed under Section 154, Rules and Regulations, to be withheld for 12 days from 8 a. m., November 8; on first charge, reprimanded. Fireman Frederick W. Green, Hook and Ladder Co. No. 1, for absence without leave; sentence suspended, and ordered for examination before the Board of Medical Officers. Fireman John H. Matthies, Hook and Ladder Company No. 15, for violation of Section 107, Rules and Regulations 1912; all recreation leaves under Section 154, Rules and Regulations, to be withheld for a

period of 12 days from 8 a. m., November 8th. Lieutenant Wallace R. Pelham, Hook and Ladder Company No. 15, for absence without leave and violation of Section 107, Rules and Regulations 1912; fined 20 days' pay. Fireman Dennis J. Cronin, Hook and Ladder Co. No. 15, for neglect of duty; reprimanded. Fireman Maxime J. Bayard, Hook and Ladder Co. No. 30, for absence without leave and disrespect to superior officer; on first charge, all recreation leaves under Section 154, Rules and Regulations, suspended for 12 days, from 8 a. m., November 8th; on second charge, reprimanded.

November 5, 1914—Engineer of Steamer Charles M. Ingram, Engine Co. No. 1, for violation Section 103, Rules and Regulations 1912; all recreation leaves under Section 154, Rules and Regulations, to be withheld for 12 days from 8 a. m., November 8th. Fireman Thomas J. Finnegan, Hook and Ladder Co. No. 5, for absence without leave; all recreation leaves under Section 154, Rules and Regulations, to be withheld for 17 days from 8 a. m., November 8th. Ununiformed Fireman Martin J. Gleason, Hook and Ladder Co. No. 10, for absence without leave; reprimanded. Fireman Daniel J. Hanley, Hook and Ladder Co. No. 10, for absence without leave; all recreation leaves under Section 154, Rules and Regulations, to be withheld for 12 days from 8 a. m., November 8th. Fireman John H. Matthies, Hook and Ladder Co. No. 15, for absence without leave; reprimanded. Fireman Alfred V. Henretty, Hook and Ladder Co. No. 15, for neglect of duty; all recreation leaves under Section 154, Rules and Regulations, to be withheld for 7 days from 8 a. m., November 8th. Lieutenant Wallace R. Pelham, Hook and Ladder Co. No. 15, for violation Section 153, Rules and Regulations 1912, and neglect of duty; fined twenty days' pay and transfer ordered. Fireman Francis K. Shields, Hook and Ladder Co. No. 21, for absence without leave and disobedience of orders; all recreation leaves under Section 154, Rules and Regulations, to be withheld for 26 days from 8 a. m., November 8th. Fireman Jeremiah T. Flynn, Hook and Ladder Co. No. 43, for violation General Order No. 53, dated September 30, 1912; reprimanded.

Charges Dismissed—(Tried before the Fire Commissioner on the dates specified.) October 29, 1914:

Fireman John P. McNamee, Engine Co. No. 16, for reckless driving. Fireman John H. Matthies, Hook and Ladder Co. No. 15, for being under the influence of intoxicating beverage, drug or compound, absence without leave, disobedience of orders and disrespectful language to superior officer.

November 5, 1914—Fireman Thomas H. Norton, Hook and Ladder Co. No. 43, for violation General Order No. 53, dated September 30, 1912; reprimanded.

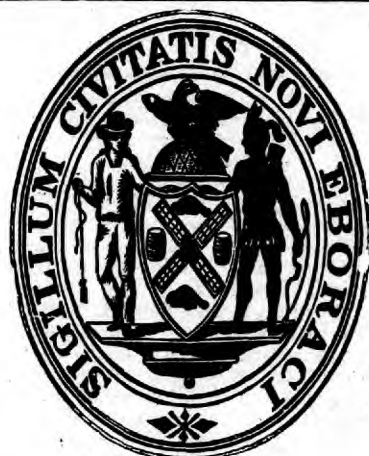
Appointed—To take effect 8 a. m., November 8, 1914. The following ununiformed Firemen to be 4th grade Firemen, at rate of \$1,000 per annum, with assignment specified: Richard J. Hanley, Engine Co. No. 29; Alexander F. Godsmann, Engine Co. No. 53.

Transferred—To take effect 8 a. m., November 8, 1914: Lieutenant Wallace R. Pelham, Hook and Ladder Co. No. 15 to Engine Co. No. 157. Lieutenant Charles M. Lauth, Hook and Ladder Co. No. 76 to Hook and Ladder Co. No. 15.

Award of Contracts—(Public Letting November 4, 1914): For furnishing and applying 8 gasoline-propelled tractors (5 for steam fire engines and 3 for hook and ladder trucks), to Front Drive Motor Co., Hoboken, N. J., \$28,800. For furnishing and applying 10 gasoline-propelled tractors (7 for steam fire engines and 3 for hook and ladder trucks), to Front Drive Motor Co., Hoboken, N. J., \$36,000.

Official Designation—Deputy Fire Commissioner W. Holden Weeks to hold all trials of charges against members of the uniformed force, Boroughs of Richmond and The Bronx, for violations of the rules and regulations of this Department.

ROBERT ADAMSON, Fire Commissioner.



OFFICIAL DIRECTORY.

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

CITY OFFICES.

MAYOR'S OFFICE.

City Hall, Telephone, 8020 Cortlandt.
John Purroy Mitchel, Mayor.
Theodore Rousseau, Secretary.
Bertram de N. Cruger, Executive Secretary.
Bureau of Weights and Measures.
City Hall, Telephone, 4334 Cortlandt.
Joseph Hartigan, Commissioner.
COMMISSIONERS OF ACCOUNTS.
Municipal Building, Telephone, 4315 Worth.
Leonard M. Wallstein, Commissioner of Accounts.

BOARD OF ALDERMEN.

Clerk's Office, Municipal Building, 2nd floor.
10 a. m. to 4 p. m. Saturday, to 12 m. Telephone, 4430 Worth.
P. J. Scully, Clerk.
President of the Board of Aldermen.
City Hall, Telephone, 6770 Cortlandt.
George McAneny, President.
BOARD OF AMBULANCE SERVICE.
300 Mulberry st. Ambulance Calls—3100 Spring. Administration Offices—7586 Spring.
ARMORY BOARD.
Hall of Records, 9 a. m. to 4 p. m.; Saturday, to 12 m. Telephone, 3900 Worth.
C. D. Rhinehart, Secretary.

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

BOARD OF ASSESSORS.
Municipal Building, 8th floor. Telephone, 29 Worth.

Alfred P. W. Seaman, Chairman.
St. George B. Tucker, Secretary.
BELLEVUE AND ALLIED HOSPITALS.
26th st. and 1st ave. Telephone, 4400 Madison square.

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

DEPARTMENT OF BRIDGES.
Municipal Building, 18th floor. Telephone, 380 Worth.

F. J. H. Kracke, Commissioner.

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

Henry Bruere, Chamberlain.

CITY CLERK AND CLERK OF THE BOARD OF ALDERMEN.
Municipal Building, 2nd floor. 10 a. m. to 4 p. m.; Saturday, to 12 m. Telephone, 4430 Worth.

P. J. Scully, City Clerk.

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

David Ferguson, Supervisor.

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

Katharine B. Davis, Commissioner.

DEPARTMENT OF DOCKS AND FERRIES.
Pier "A," N. R. Telephone, 300 Rector.

R. A. C. Smith, Commissioner.

DEPARTMENT OF EDUCATION.
Board of Education.
Park ave. and 59th st. Telephone, 5580 Plaza.

Stated meetings of the Board are held at 4 p. m. on the first Monday in February, the second Wednesday in July, and the second and fourth Wednesdays in every month, except July and August.

Thomas W. Churchill, President.
A. Emerson Palmer, Secretary.

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

Moses M. McKee, Secretary.

Other Borough Offices.

The Bronx.
368 E. 148th st. Telephone, 336 Melrose.

Brooklyn.
435-445 Fulton st. Telephone, 693 Main.

Queens.
64 Jackson ave., Long Island City. Telephone, 3375 Hunters Point.

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

All offices open from 9 a. m. to 4 p. m. Saturday, to 12 m.

BOARD OF ESTIMATE AND APPOINTMENT.

Municipal Building, 13th floor. Telephone, 4560 Worth.

Joseph Haag, Secretary.

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

Joseph Haag, Secretary.

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

Nelson P. Lewis, Chief Engineer.

Bureau of Public Improvements.
Municipal Building, 13th floor. Telephone, 4560 Worth.

Nelson P. Lewis, Chief Engineer.

Bureau of Franchises.
Municipal Building, 13th floor. Telephone, 4563 Worth.

Harry P. Nichols, Chief Engineer.

Bureau of Contract Supervision.
Municipal Building, 13th floor. Telephone, 4560 Worth.

Tilden Adamson, Director.

Bureau of Standards.
Salaries and Grades Division and Supplies Division, Municipal Building, 13th floor. Telephone, 4560 Worth.

Standard Testing Laboratory, 125 Worth st. Telephone, 3088 Franklin.

George L. Tirrell, Director.

BOARD OF EXAMINERS.
Municipal Building, 20th floor, 9 a. m. to 4 p. m. Saturday, to 12 m. Telephone, 3280 Worth.

Board meets every Tuesday at 2 p. m.

Edward V. Barton, Clerk.

DEPARTMENT OF FINANCE.
Municipal Building, 5th floor. Telephone, 1200 Worth.

Shepard A. Morgan, Secretary to the Department, 5th Floor.

William A. Prendergast, Comptroller.

Deputy Comptrollers, 7th floor. Alexander Brough, Edmund D. Fisher, Charles S. Hervey, Hubert L. Smith.

Receiver of Taxes.
Manhattan—Municipal Building, 2nd floor. Telephone, 1200 Worth.

Brooklyn—177th st. and Arthur ave. Telephone, 140 Tremont.

Brooklyn—236 Duffield st. Telephone, 7056 Main.

Queens—5 Court Square, Long Island City. Telephone, 3386 Hunter's Point.

Richmond—Borough Hall, St. George. Telephone, 1000 Tompkinsville.

Frederick H. Ebstein, Receiver of Taxes.

Collector of Assessments and Arrears.
Manhattan—Municipal Building, 3d Floor. Telephone, 1200 Worth.

Brooklyn—177th St. and Arthur Ave. Telephone, 47 Tremont.

Brooklyn—503 Fulton st. Telephone, 3084 Main.

Queens—Municipal Building, Court House Square, Long Island City. Telephone, 1553 Hunter's Point.

Richmond—Borough Hall, St. George. Telephone, 1000 Tompkinsville.

Daniel Moynahan, Collector.

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

Brooklyn, 365 Jay st. Telephone, 2653 Main.

Robert Adamson, Commissioner.

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

Burial Permit and Contagious Disease offices always open.

Bronx, 3731 Third ave. Brooklyn, Flatbush ave., Willoughby and Fleet sta. Queens, 372 Fulton st., Jamaica. Richmond, 514 Bay st., Stapleton.

S. S. Goldwater, Commissioner.

Eugene W. Scheffer, Secretary.

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

Board meets first Wednesday in each month at 3 o'clock.

Charles Samson, Secretary.

LAW DEPARTMENT.
Office of Corporation Counsel.

Main office, Municipal Building, 16th floor. Telephone, 4600 Worth.

Frank L. Polk, Corporation Counsel.

Brooklyn office, 153 Pierrepont st. Telephone, 2948 Main.

Bureau of Street Openings.
Main office, Municipal Building, 15th floor. Telephone, 1380 Worth.

Brooklyn office, 166 Montagu st. Telephone, 5916 Main.

Queens office, Municipal Building, Long Island City. Telephone, 3886 Hunters Point.

Bureau for the Recovery of Penalties.
Municipal Building, 15th floor. Telephone, 3460 Worth.

Bureau for the Collection of Arrears of Personal Taxes.

Municipal Building, 17th floor. Telephone, 4585 Worth.

Tenement House Bureau and Bureau of Buildings.

Municipal Building, 15th floor. Telephone, 1620 Worth.

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

George H. Bell, Commissioner.

Centre St. Office—59-59 Centre st. Telephone, 2030 Worth.

Julian Rosenthal, Deputy Commissioner.

Brooklyn—Borough Hall. Telephone, 1497 Main.

Queens—Borough Hall, Long Island City. Telephone, 5400 Hunters Point.

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

Division of Licensed Vehicles—517-519 W. 57th st. Telephone, 6387 Columbus.

Municipal Employment Bureau—27 Lafayette st. Telephone, 3870 Worth.

MUNICIPAL CIVIL SERVICE COMMISSION.
Municipal Building, 14th floor. Telephone, 1580 Worth.

Henry Moskowitz, President.

Robert W. Belcher, Secretary.

MUNICIPAL REFERENCE LIBRARY.
Municipal Building, 5th floor. Telephone, 1072 Worth.

9 a. m. to 5 p. m.; Saturday, to 1 p. m.

DEPARTMENT OF PARKS.
Municipal Building, 10th floor. Telephone, 4850 Worth.

Cabot Ward, Commissioner, Manhattan and Richmond.

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

Raymond V. Ingersoll, Commissioner.

Borough of The Bronx.
Zbrowski Mansion, Claremont Park. Telephone, 2640 Tremont.

Thomas W. Whittle, Commissioner.

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

John E. Weier, Commissioner.

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

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

BOARD OF PAROLE OF THE NEW YORK CITY REFORMATORY OF MISDEMEANANTS.
Municipal Building, 24th floor. Telephone, 1610 Worth.

Thomas R. Minnick, Secretary.

EXAMINING BOARD OF PLUMBERS.
Municipal Building, 8th floor. Telephone, 1800 Worth.

J. A. Glendinning, Clerk.

POLICE DEPARTMENT.
240 Centre st. Telephone, 3100 Spring.

Arthur Woods, Commissioner.

DEPARTMENT OF PUBLIC CHARITIES.
Principal office, Municipal Building, 10th floor. Telephone, 4440 Worth.

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

Bureau of Dependent Adults, Pier, foot of East 26th st. Telephone, 7400 Madison Square.

The Children's Bureau, 124 East 50th st. Telephone, 7400 Madison Square.

Borough of Richmond, Borough Hall, St. George S. I. Telephone, 100 Tompkinsville.

John A. Kingsbury, Commissioner.

PUBLIC RECREATION COMMISSION.
Municipal Building, 8th floor. Telephone, 1471 Worth.

Meeting every second Tuesday at 2.30 p. m.

Cyril H. Jones, Acting Secretary.

PUBLIC SERVICE COMMISSION.
154 Nassau st., Manhattan. 8 a. m. to 11 p. m. every day, including holidays and Sundays.

Telephone, 4150 Beekman.

Edward E. McCall, Chairman.

Travis H. Whitney, Secretary.

BOARD OF REVISION OF ASSESSMENTS.
Municipal Building, 7th floor. Telephone, 1200 Worth.

John Korb, Chief Clerk.

COMMISSIONERS OF SINKING FUND.
Office of Secretary, Municipal Building, 7th floor. Telephone, 1200 Worth.

John Korb, Secretary.

DEPARTMENT OF STREET CLEANING.
Municipal Building, 12th floor. Telephone, 4240 Worth.

John T. Fetherston, Commissioner.

DEPARTMENT OF TAXES AND ASSESSMENTS.
Municipal Building, 9th floor. 9 a. m. to 4 p. m.; Saturday, to 12 m. Telephone, 1800 Worth.

Lawson Purdy, President.

C. Rockland Tyng, Secretary.

TENEMENT HOUSE DEPARTMENT.
Manhattan and Richmond office, Municipal Building, 19th floor. Telephone, 1526 Worth.

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

Bronx office, 391 East 149th st. Telephone, 107 Melrose.

John J. Murphy, Commissioner.

BOARD OF WATER SUPPLY.

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

BOROUGH OFFICES.

BOROUGH OF THE BRONX.
President's office, 3d ave. and 177th st. Telephone, 2680 Tremont.
Douglas Mathewson, President.

BOROUGH OF BROOKLYN.
President's office, Borough Hall. Telephone, 3960 Main.
Lewis H. Pounds, President.

BOROUGH OF MANHATTAN.
President's office, 17th floor, Municipal Bldg. Commissioner of Public Works, 21st floor, Municipal Building.
Assistant Commissioner of Public Works, 20th floor, Municipal Building.
Bureau of Highways, 21st floor, Municipal Building.
Bureau of Public Buildings and Offices, 20th floor, Municipal Building.
Bureau of Sewers, 21st floor, Municipal Bldg.
Bureau of Buildings, 20th floor, Municipal Building.
Telephone, 4227 Worth.
Marcus M. Marks, President.

BOROUGH OF QUEENS.
President's office, Borough Hall, Long Island City, 9 a. m. to 4 p. m.; Saturday, to 12 m. Telephone, 5400 Hunters Point.
Bureau of Public Buildings and Offices, Town Hall, Flushing, L. I. Telephone, 1740 Flushing.
Maurice E. Connolly, President.

BOROUGH OF RICHMOND.
President's office, New Brighton, Staten Island, 9 a. m. to 4 p. m.; Saturday, to 12 m. Telephone, 1000 Tompkinsville.
Charles J. McCormack, President.

CORONERS.
Manhattan, 70 Lafayette st. Open at all hours of the day and night. Telephone, 5057 Franklin.
Bronx, Arthur and Tremont aves. Telephone, 1250 Tremont. 8 a. m. to midnight, every day.
Brooklyn, 236 Duffield st. Telephone, 4004 Main. Open at all hours of the day and night.
Queens, Town Hall, Jamaica, L. I., 9 a. m. to 10 p. m.; Sundays and holidays, 9 a. m. to 12 m.
Richmond, 175 Second st., New Brighton. Open at all hours of the day and night.

COUNTY OFFICES.

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

NEW YORK COUNTY.

COUNTY CLERK.
County Court House. Telephone, 5388 Cortlandt.
William F. Schneider, County Clerk.
9 a. m. to 2 p. m. during July and August.

DISTRICT ATTORNEY.
Criminal Courts Building, 9 a. m. to 5.15 p. m.; Saturday, to 12 m. Telephone, 2304 Franklin.
Charles S. Whitman, District Attorney.

COMMISSIONER OF JUDICIALS.
280 Broadway. Telephone, 241 Worth.
Thomas Allison, Commissioner.

PUBLIC ADMINISTRATOR.
119 Nassau st. Telephone, 6376 Cortlandt.
William M. Hoe, Public Administrator.

COMMISSIONER OF RECORDS.
Hall of Records, Telephone, 3900 Worth.
John F. Cowan, Commissioner.

REGISTER.
Hall of Records, Telephone, 3900 Worth.
9 a. m. to 2 p. m. during July and August.
John J. Hopper, Register.

SHERIFF.
299 Broadway. Telephone, 4984 Worth.
New York County Jail, 70 Ludlow st.
Max S. Grifenhagen, Sheriff.

SURROGATES.
Hall of Records, Telephone, 3900 Worth.
John P. Cohalan; Robert Ludlow Fowler, Surrogates.
John F. Curry, Commissioner of Records.

KINGS COUNTY.

COUNTY CLERK.
Hall of Records, Brooklyn. Telephone, 4930 Main.
Charles S. Devoy, County Clerk.

COUNTY COURT.
County Court House, Brooklyn. Court opens at 10 a. m. daily and sits until business is completed. Part I, Room No. 23; Part II, Room No. 10; Part III, Room No. 14; Part IV, Room No. 1, Court House. Clerk's office, Rooms 17, 18, 19 and 22; open daily from 9 a. m. to 5 p. m.; Saturday, to 12 m. Telephone, 4154 Main.
John T. Rafferty, Chief Clerk.

DISTRICT ATTORNEY.
66 Court st., Brooklyn. 9 a. m. to 5.30 p. m.; Saturday, to 1 p. m. Telephone, 2954 Main.
James C. Cropsey, District Attorney.

COMMISSIONER OF JUDICIALS.
381 Fulton st., Brooklyn. Telephone, 1454 Main.
Thomas R. Farrell, Commissioner.

PUBLIC ADMINISTRATOR.
44 Court st., Brooklyn. Telephone, 2840 Main.
Frank V. Kelly, Public Administrator.

COMMISSIONER OF RECORDS.
Hall of Records, Brooklyn. Telephone, 6988 Main.
Edmund O'Connor, Commissioner.

REGISTER.
Hall of Records, Brooklyn. Telephone, 2830 Main.
Edward T. O'Loughlin, Register.

SHERIFF.
46-50 Court st., Brooklyn. Telephone, 6845 Main.
Lewis M. Swasey, Sheriff.

SURROGATE.
Hall of Records, Brooklyn. Court opens at 10 a. m. Telephone, 3954 Main.
Herbert T. Ketcham, Surrogate.
John H. McCooley, Chief Clerk.

BRONX COUNTY.

COUNTY CLERK.
161st st. and 3d ave. Telephone, 9266 Melrose.
James Vincent Ganly, County Clerk.

COUNTY JUDGE.
161st st. and 3d ave. Telephone, 7907 Melrose.
Louis D. Gibbs, County Judge.

DISTRICT ATTORNEY.
161st st. and 3d ave. Telephone, 9200 Melrose.
Francis Martin, District Attorney.

COMMISSIONER OF JUDICIALS.
1932 Arthur ave. Telephone, 3700 Tremont.
John A. Mason, Commissioner.

PUBLIC ADMINISTRATOR.
2808 3d ave. Telephone, 9816 Melrose. 9 a. m. to 5 p. m., Saturday to 12 m.
Ernest E. L. Hammer, Public Administrator.

REGISTER.
1932 Arthur ave. Telephone, 6694 Tremont.
Edward Polak, Register.

SHERIFF.
1932 Arthur ave. Telephone, 6600 Tremont.
James F. O'Brien, Sheriff.

SURROGATE.
161st st. and 3d ave.
George M. S. Schulz, Surrogate.

QUEENS COUNTY.

COUNTY CLERK.
364 Fulton st., Jamaica. Telephone, 151 Jamaica.
Leonard Rouff, County Clerk.

COUNTY COURT.
County Court House, Long Island City. Telephone, 596 Hunters Point.
Court opens at 10 a. m. Trial Terms begin first Monday of each month, except July, August and September, and on Friday of each week.
Clerk's office opens 9 a. m. to 5 p. m.; Saturdays to 12.30 p. m. Telephone, 551 Jamaica.
Burt Jay Humphrey, County Judge.

DISTRICT ATTORNEY.
County Court House, Long Island City, 9 a. m. to 5 p. m.; Saturday, to 12 m.
County Judge's office always open at 336 Fulton st., Jamaica. Telephone, 3871 Hunters Point.
Matthew J. Smith, District Attorney.

COMMISSIONER OF JUDICIALS.
County Court House, Long Island City. Telephone, 9631 Hunters Point.
Thorndyke C. McKenney, Commissioner.

PUBLIC ADMINISTRATOR.
302 Fulton st., Jamaica.
Randolph White, Public Administrator.

SHERIFF.
County Court House, Long Island City. Telephone, 3766 Hunters Point.
George Emmer, Sheriff.

SURROGATE.
364 Fulton st., Jamaica. Telephone, 397 Jamaica.
Daniel Noble, Surrogate.

RICHMOND COUNTY.

COUNTY CLERK.
County Office Building, Richmond. Telephone, 28 New Dorp.
C. Livingston Bostwick, County Clerk.

COUNTY JUDGE AND SURROGATE.
Trial Terms, with Grand and Trial Jury, Second Monday of March, First Monday of October.
Trial Terms, with Trial Jury only, First Monday of May, First Monday of December.
Special Terms, without Jury—Wednesday of each week, except the last week of July, the month of August and the first week of September.

Surrogate's Court.
Monday and Tuesday of each week at the Borough Hall, St. George, and on Wednesday at the Surrogate's Court, at Richmond, except during the session of the County Court. There will be no Surrogate's Court during the month of August.
Surrogate's Court and Office, Richmond, S. I.
Surrogate's Chambers, Borough Hall, St. George.
J. Harry Tiernan, County Judge and Surrogate.

DISTRICT ATTORNEY.
Borough Hall, St. George. Telephone, 50 Tompkinsville, 9 a. m. to 5 p. m.; Saturday, to 12 m.
Albert C. Fach, District Attorney.

COMMISSIONER OF JUDICIALS.
Village Hall, Stapleton. Telephone, 81 Tompkinsville.
Edward I. Miller, Commissioner.

PUBLIC ADMINISTRATOR.
Port Richmond. Telephone, 704 West Brighton.
William T. Holt, Public Administrator.

SHERIFF.
County Court House, Richmond. Telephone, 120 New Dorp.
Joseph F. O'Grady, Sheriff.

THE COURTS.

CITY COURT OF THE CITY OF NEW YORK.
City Hall Park. Special Term Chambers held from 10 a. m. to 4 p. m. Clerk's office open from 9 a. m. to 4 p. m. Telephone, 122 Cortlandt.
Thomas F. Smith, Clerk.

CITY MAGISTRATES' COURT.
First Division.
First District—Criminal Court Building.
Second District—125 Sixth ave.
Third District—2d ave. and 1st st.
Fourth District—151 E. 57th st.
Fifth District—121st st. and Sylvan place.
Sixth District—162d st. and Washington ave.
Seventh District—314 W. 54th st.
Eighth District—1014 E. 181st st., The Bronx.
Ninth District (Night Court for Females)—125 6th ave.
Tenth District (Night Court for Males)—151 E. 57th st.
Eleventh District (Domestic Relations)—151 E. 57th st.
Thirteenth District (Domestic Relations)—1014 E. 181st st., The Bronx.
Office of Chief Clerk, 300 Mulberry st. Telephone, 6213 Spring.
Office of the Chief Probation Officer, 300 Mulberry st. Telephone, 8713 Spring.

Second Division.
Borough of Brooklyn.
Office of Chief Magistrate, 44 Court st. Telephone, 7411 Main.

First District—Court and Butler sta.
Fifth District—249 Manhattan ave.
Sixth District—495 Gates ave.
Seventh District—31 Snider ave., Flushing.
Eighth District—W. 8th st., Coney Island.
Ninth District—5th ave. and 29th st.
Tenth District—133 New Jersey ave.
Domestic Relations—Myrtle and Vanderbilt aves.

Borough of Queens.
First District—St. Mary's Lyceum, L. I. City.
Second District—Town Hall, Flushing, L. I.
Third District—Central ave., Far Rockaway.
Fourth District—Town Hall, Jamaica, L. I.

Borough of Richmond.
First District—Lafayette ave., New Brighton.
Second District—Village Hall, Stapleton.
All courts open daily from 9 a. m. to 4 p. m., except on Saturdays, Sundays and legal holidays, when only morning sessions are held.

COURT OF GENERAL SESSIONS.
Criminal Court Building. Court opens at 10.30 a. m. Clerk's office open from 9 a. m. to 4 p. m., and on Saturdays until 12 m.
Edward R. Carroll, Clerk.

MUNICIPAL COURTS.
The Clerks' offices are open from 9 a. m. to 4 p. m.; Saturday, to 12 noon.

Borough of Manhattan.
First District—54-60 Lafayette st. Additional Part is held at southwest corner of 6th ave. and 10th st. Telephone, 6030 Franklin.
Second District—264-266 Madison st. Telephone, 4300 Orchard.
Third District—314 W. 54th st. Telephone, 5450 Columbus.
Fourth District—Parts I and II, 207 E. 32d st. Telephone, 4958 Murray Hill.

Borough of Richmond.
First District—Lafayette ave., New Brighton.
Second District—Village Hall, Stapleton.
All courts open daily from 9 a. m. to 4 p. m., except on Saturdays, Sundays and legal holidays, when only morning sessions are held.

COURT OF GENERAL SESSIONS.
Criminal Court Building. Court opens at 10.30 a. m. Clerk's office open from 9 a. m. to 4 p. m., and on Saturdays until 12 m.
Edward R. Carroll, Clerk.

MUNICIPAL COURTS.
The Clerks' offices are open from 9 a. m. to 4 p. m.; Saturday, to 12 noon.

Borough of Manhattan.
First District—54-60 Lafayette st. Additional Part is held at southwest corner of 6th ave. and 10th st. Telephone, 6030 Franklin.
Second District—264-266 Madison st. Telephone, 4300 Orchard.
Third District—314 W. 54th st. Telephone, 5450 Columbus.
Fourth District—Parts I and II, 207 E. 32d st. Telephone, 4958 Murray Hill.

Borough of Richmond.
First District—Lafayette ave., New Brighton.
Second District—Village Hall, Stapleton.
All courts open daily from 9 a. m. to 4 p. m., except on Saturdays, Sundays and legal holidays, when only morning sessions are held.

COURT OF GENERAL SESSIONS.
Criminal Court Building. Court opens at 10.30 a. m. Clerk's office open from 9 a. m. to 4 p. m., and on Saturdays until 12 m.
Edward R. Carroll, Clerk.

MUNICIPAL COURTS.
The Clerks' offices are open from 9 a. m. to 4 p. m.; Saturday, to 12 noon.

Borough of Manhattan.
First District—54-60 Lafayette st. Additional Part is held at southwest corner of 6th ave. and 10th st. Telephone, 6030 Franklin.
Second District—264-266 Madison st. Telephone, 4300 Orchard.
Third District—314 W. 54th st. Telephone, 5450 Columbus.
Fourth District—Parts I and II, 207 E. 32d st. Telephone, 4958 Murray Hill.

Borough of Richmond.
First District—Lafayette ave., New Brighton.
Second District—Village Hall, Stapleton.
All courts open daily from 9 a. m. to 4 p. m., except on Saturdays, Sundays and legal holidays, when only morning sessions are held.

Fifth District—Broadway and 96th st. Telephone, 4006 Riverside.
Sixth District—155 E. 88th st.
Seventh District—70 Manhattan st.
Eighth District—121st st. and Sylvan place. Telephone, 3950 Harlem.
Ninth District—Madison ave. and 59th st. Parts I and II. Telephone, 3873 Plaza.

Borough of The Bronx.
First District—Town Hall, 1400 Williamsbridge road, Westchester. Trial of causes, Tuesday and Friday of each week. Telephone, 457 Westchester.
Second District—Washington ave. and 162d st. Telephone, 3043 Melrose.

Borough of Brooklyn.
First District—State and Court sta. Parts I and II. Telephone, 7091 Main.
Second District—495 Gates ave. Telephone, 504 Bedford.
Third District—6 Lee ave. Telephone, 955 Williamsburg.
Fourth District—14 Howard ave.
Fifth District—5220 Third ave. Telephone, 3907 Sunset.
Sixth District—236 Duffield st. Telephone, 6166 Main.
Seventh District—31 Pennsylvania ave. 8.45 a. m. to 4 p. m.; Saturday, 9 a. m. to 12 m. Telephone, 904 East New York.

Borough of Queens.
First District—115 5th st., Long Island City. Telephone, 1420 Hunters Point.
Second District—Broadway and Court st., Elmhurst. Telephone, 87 Newtown.
Third District—1908 Myrtle ave., Glendale. Telephone, 2352 Bushwick.
Fourth District—Town Hall, Jamaica. Telephone, 1654 Jamaica.

Borough of Richmond.
First District—Lafayette ave. and 2d st., New Brighton. Clerk's office open from 8.45 a. m. to 4 p. m. Telephone, 503 Tompkinsville.
Second District—Former Edgewater Village Hall, Stapleton. Clerk's office open from 8.45 a. m. to 4 p. m. Telephone, 313 Tompkinsville.

COURT OF SPECIAL SESSIONS.
Court opens at 10 a. m.
Part I, Criminal Court Building, Manhattan. Telephone, 3983 Franklin.
Part II, 171 Atlantic ave., Brooklyn. Telephone, Main 4280.
Part III, Town Hall, Jamaica. Held on Tuesday of each week. Telephone, 2620 Jamaica.
Part IV, Borough Hall, St. George. Held on Wednesday of each week. Telephone, 324 Tompkinsville.
Part V, 161st and 3d ave., Bronx. Held on Thursday of each week. Telephone, 9088 Melrose.
Frank W. Smith, Chief Clerk.

Children's Court.
New York County—66 3d ave. Telephone, 1832 Stuyvesant.
Dennis A. Lambert, Clerk.
Bronx County—355 E. 137th st. Court held on Wednesday and Friday of each week. Telephone, 9092 Melrose.
Michael Murray, Clerk.
Kings County—102 Court st. Telephone, 627 Main.
Joseph W. Duffy, Clerk.
Queens County—19 Flushing ave., Jamaica. Court held on Monday and Thursday of each week. Telephone, 2624 Jamaica.
Sydney Ollendorf, Clerk.
Richmond County—Corn Exchange Bank Building, St. George. Court held on Tuesday of each week. Telephone, 324 Tompkinsville.
William J. Browne, Clerk.

SUPREME COURT—APPELLATE DIVISION.
First Judicial Department.
Madison ave., corner 25th st. Court open from 2 p. m. until 6 p. m. Friday, Motion Day, Court opens at 10.30 a. m. Motions called at 10 a. m. Orders called at 10.30 a. m. Telephone, 3340 Madison Square.
Alfred Wagstaff, Clerk.

Second Judicial Department.
Borough Hall, Brooklyn. Court meets from 2 p. m. to 5 p. m., excepting that on Fridays Court opens at 10 o'clock a. m. Clerk's office open 9 a. m. Telephone, 1392 Main.
John B. Byrne, Clerk.

SUPREME COURT—APPELLATE TERM.
503 Fulton st., Brooklyn. Court meets 10 a. m. Clerk's office opens 9 a. m. Telephone, 7452 Main.
Joseph H. DeBragga, Clerk.

SUPREME COURT—CRIMINAL DIVISION.
Criminal Court Building. Court opens at 10.30 a. m. Clerk's office open from 9 a. m. to 4 p. m.; Saturday, to 12 m. Telephone, 6064 Franklin.
William Schneider, Clerk.

SUPREME COURT—FIRST DEPARTMENT.
County Court House. Court open from 10.15 a. m. to 4 p. m. Telephone, 4580 Cortlandt.

SUPREME COURT—SECOND DEPARTMENT.
Kings County.
Joralemon and Fulton sts., Brooklyn. Clerk's office hours, 9 a. m. to 5 p. m. Seven jury trial parts. Special Term for trials. Special Term for motions. Special Term (ex-parte business). Court opens at 10 a. m. Naturalization Bureau, Hall of Records, Brooklyn. Telephone, 5460 Main.
James F. McGee, General Clerk.

Queens County.
County Court House, L. I. City. Court opens at 10 a. m. Trial and Special Term for motions and ex-parte business each month except July, August and September, in Part I. Trial Term, Part II, January, February, March, April, May and December. Special Term for trials, January, April, June and November. Naturalization, first Friday in each Term.
Clerk's office open 9 a. m. to 5 p. m.; Saturday, to 12.30 p. m. Telephone, 3896 Hunters Point.
Thomas B. Seaman, Special Deputy Clerk in charge.

Richmond County.
Trial Term held at County Court House, Richmond. Special Term for trials held at Court room, Borough Hall, St. George. Special Term for motions held at Court House, Borough Hall, St. George.
C. Livingston Bostwick, Clerk.

BOARD OF WATER SUPPLY.
Proposals.
SEALED BIDS WILL BE RECEIVED BY THE Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Centre and Chambers Streets, New York City, until 11 A. M. on

TUESDAY, DECEMBER 8, 1914.
FOR CONTRACT FOR PRINTING.
An approximate statement of the quantities of the various classes of work and further information are given in the Information for Bidders, forming part of the contract. At the above place and time the bids will be publicly opened and read. The award of the contract, if awarded, will be made by the Board as soon thereafter as practicable. The Board reserves the right to reject any and all bids.

A bond in the sum of thirty-five per cent. (35%) of the total amount of the contract will be required for the faithful performance of the contract.

No bid will be received and deposited unless accompanied by a certified check upon a National or State Bank, drawn to the order of the Comptroller of The City of New York to the amount of five hundred dollars (\$500).

The contract will terminate on the completion of all editions under way December 31, 1916. Pamphlets containing information for bidders, forms of proposal, contract, specifications, etc., can be obtained at the above address, at the office of the Secretary, upon application in person or by mail, by depositing the sum of five dollars (\$5) in cash or its equivalent for each pamphlet. This deposit will be refunded upon the return of the pamphlet in acceptable condition within thirty days from the date on which bids are to be opened.

For further particulars apply to the office of the Principal Assistant Engineer at the above address.

CHARLES STRAUSS, President; CHARLES N. CHADWICK, JOHN F. GALVIN, Commissioners of the Board of Water Supply.
W. BRUCE COSS, Secretary. n19,d8

NOTE: See general instructions to bidders on last page, last column, of the City Record, so far as applicable hereto and not otherwise provided for.

BOARD OF ELECTIONS.

Proposals.

OFFICE OF THE BOARD OF ELECTIONS OF THE CITY OF NEW YORK, MUNICIPAL BUILDING, BOROUGH OF MANHATTAN.
SEALED BIDS OR ESTIMATES WILL BE received by the Board of Elections of The City of New York until 12 M., on

MONDAY, DECEMBER 14, 1914.

FOR FURNISHING AND DELIVERING COPIES OF THE LISTS OF ENROLLED VOTERS OF THE YEAR 1914, IN THE ASSEMBLY DISTRICTS IN THE BOROUGH OF MANHATTAN, THE BRONX, BROOKLYN, QUEENS AND RICHMOND.

The time for the delivery of the said lists and the performance of the contract shall be ten (10) calendar days after the delivery of the last copy to the contractor.

The amount of security required is fifty (50) per cent. of the total amount for which the contract is awarded.

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

Blank forms and other information may be obtained at the office of the Board of Elections, Municipal Building.

Dated, New York, December 2, 1914.
MOSES M. McKEE, JAMES KANE, JACOB A. LIVINGSTON, Commissioners of Elections.
S. HOWARD COHEN, Chief Clerk. d3,14

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

BOARD MEETINGS.

Board of Aldermen.

The Board of Aldermen meets in the Aldermanic Chamber, City Hall, every Tuesday, at 1.30 o'clock p. m.

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

Board of Estimate and Apportionment.
The Board of Estimate and Apportionment meets in the Old Council Chamber (Room 16), City Hall, every Friday, at 10.30 o'clock a. m.
JOSEPH HAAG, Secretary.

Commissioners of Sinking Fund.
The Commissioners of the Sinking Fund meet in the Meeting Room (Room 16), City Hall, on Wednesday, at 11 a. m., at call of the Mayor.
JOHN KORB, JR., Secretary.

Board of Revision of Assessments.
The Board of Revision of Assessments meets in the Meeting Room (Room 16), City Hall, every Thursday at 10.30 a. m., upon notice of the Chief Clerk JOHN KORB, JR., Chief Clerk.

Board of City Record.
The Board of City Record meets in the City Hall at call of the Mayor.
DAVID FERGUSON, Supervisor, Secretary.

POLICE DEPARTMENT.

Owners Wanted for Unclaimed Property.

POLICE DEPARTMENT, CITY OF NEW YORK.
OWNERS WANTED BY THE PROPERTY CLERK OF THE POLICE DEPARTMENT OF THE CITY OF NEW YORK, No. 240 Centre st., for the following property now in custody, without claimants: Boats, rope, iron, lead, male and female clothing, boots, shoes, wine, blankets, diamonds, canned goods, liquors, etc.; also small amount of money taken from prisoners and found by Patrolmen of this Department.

ARTHUR WOODS, Police Commissioner.

POLICE DEPARTMENT OF CITY OF NEW YORK, BOROUGH OF BROOKLYN.
OWNERS WANTED BY THE PROPERTY CLERK OF THE POLICE DEPARTMENT OF THE CITY OF NEW YORK—Office, No. 72 Poplar st., Borough of Brooklyn—for the following property, now in custody, without claimants: Boats, rope, iron, lead, male and female clothing, boots, shoes, wine, blankets, diamonds, canned goods, liquors, etc.; also small amount of money taken from prisoners and found by Patrolmen of this Department.

ARTHUR WOODS, Police Commissioner.

DEPARTMENT OF PUBLIC CHARITIES.
Proposals.

MAIN OFFICE OF THE DEPARTMENT OF PUBLIC CHARITIES, MUNICIPAL BUILDING, ROOM 1091, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities at the above office until 2.30 o'clock p. m., on

WEDNESDAY, DECEMBER 16, 1914.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR THE GENERAL WORK NECESSARY FOR THE ALTERATION AND EQUIPMENT OF A NEW SERVING ROOM AND FOR ENLARGING THE DELIVERY TOILET AND BATH ROOMS IN CUMBERLAND STREET HOSPITAL, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

The time allowed for the completion of the work and full performance of the contract is sixty (60) consecutive working days.

The security required will be Nine Hundred Dollars (\$900).

Certified check or cash in the sum of Forty-five Dollars (\$45) must accompany bid.

The bidder will state one aggregate price for the whole work described and specified, as the contract is entire for a complete job.

Blank forms and further information may be obtained at the office of the Contract Clerk of the Department, Room 1034, Municipal Building.

The City of New York, where plans and specifications may be seen.
JOHN A. KINGSBURY, Commissioner.
Dated December 5, 1914. d3,16
See General Instructions to Bidders on last page, last column, of the "City Record."

MAIN OFFICE OF THE DEPARTMENT OF PUBLIC CHARITIES, MUNICIPAL BUILDING, ROOM 1091, THE CITY OF NEW YORK.
SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities at the above office until 2:30 o'clock p. m. on MONDAY, DECEMBER 14, 1914.
FOR FURNISHING AND DELIVERING MILK.

The time for the performance of the contract is during the year 1914.
No bond will be required with the bid, as heretofore, but will be required upon awarding of the contract in an amount equal to thirty (30) per cent. of the contract.

No bid will be considered unless it is accompanied by a deposit, which shall be in the form of money, or a certified check upon one of the State or National banks of The City of New York, drawn to the order of the Comptroller, or corporate stock or certificates of indebtedness of any nature issued by The City of New York and approved by the Comptroller as of equal value to the security required. Such deposit shall be in an amount not less than one and one-half (1½) per cent. of the total amount of the bid.

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

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

Blank forms and further information may be obtained at the office of the Contract Clerk of the Department, Room 1034, New Municipal Building, Borough of Manhattan.

JOHN A. KINGSBURY, Commissioner.
Dated December 3, 1914. d3,14
See General Instructions to Bidders on last page, last column, of the "City Record."

MAIN OFFICE OF THE DEPARTMENT OF PUBLIC CHARITIES, MUNICIPAL BUILDING, ROOM 1091, THE CITY OF NEW YORK.
SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities at the above office until 2:30 o'clock p. m. on FRIDAY, DECEMBER 11, 1914.
FOR FURNISHING AND DELIVERING MEAT, POULTRY, BUTTER, EGGS, COFFEE, BACON AND OATS.

The time for the performance of the contract is during the year 1914.
No bond will be required with the bid, as heretofore, but will be required upon awarding of the contract in an amount equal to thirty (30) per cent. of the contract.

No bid will be considered unless it is accompanied by a deposit, which shall be in the form of money, or a certified check upon one of the State or National banks of The City of New York, drawn to the order of the Comptroller, or corporate stock or certificates of indebtedness of any nature issued by The City of New York and approved by the Comptroller as of equal value to the security required. Such deposit shall be in an amount not less than one and one-half (1½) per cent. of the total amount of the bid.

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

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

Blank forms and further information may be obtained at the office of the Contract Clerk of the Department, Room 1034, New Municipal Building, Borough of Manhattan.

JOHN A. KINGSBURY, Commissioner.
Dated December 1, 1914. d1,11
See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.
Proposals.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 2351, MUNICIPAL BUILDING, BOROUGH OF MANHATTAN, CITY OF NEW YORK.
SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 p. m., on FRIDAY, DECEMBER 11, 1914.

(1) FOR REMOVING THE PRESENT FOUNDATION AND ERECTING A NEW FOUNDATION UNDER THE WATER ENDS OF NO. 1 WORTHINGTON 20 MG TRIPLE EXPANSION PUMPING ENGINE AT THE RIDGEWOOD NORTH SIDE PUMPING STATION.

The time allowed for doing and completing the entire work will be seventy-five (75) consecutive working days.

The security required will be Two Thousand Dollars (\$2,000).

(2) FOR REMOVING TWO (2) BOILERS AND THEIR APPURTENANCES FROM THE MILBURN PUMPING STATION, TRANSPORTING AND RE-ERECTING ONE (1) IN THE WOODHAVEN PUMPING STATION AND ONE (1) IN THE AGAWAM PUMPING STATION WITH NEW STACKS, PIPING AND OTHER APPURTENANCES.

The time allowed for doing and completing the entire work will be Fifty (50) Consecutive Working Days.

The security required will be Twenty-five Hundred Dollars (\$2,500).

The bidder will state the price per unit of each item of work or supplies contained in the specifications or schedules, by which the bids will be tested. The bids will be compared and award made to the lowest formal bidder on each contract.

Bidders are requested to make bids or estimates upon the blank form prepared by the Department, a copy of which, with the proper envelope in which to enclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the Department, Room 2351, Municipal Building, Borough of Manhattan, where any further information desired may be obtained.

WILLIAM WILLIAMS, Commissioner.
Dated, Nov. 27, 1914. n30,d11
See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 2351, MUNICIPAL BUILDING, BOROUGH OF MANHATTAN, CITY OF NEW YORK.
SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m., on FRIDAY, DECEMBER 4, 1914.

BOARDS OF TRUSTEES, BELLEVUE AND ALLIED HOSPITALS, JOHN W. BRANNAN, M. D., President.
See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 2351, MUNICIPAL BUILDING, BOROUGH OF MANHATTAN, CITY OF NEW YORK.
SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m., on FRIDAY, DECEMBER 4, 1914.

BOARDS OF TRUSTEES, BELLEVUE AND ALLIED HOSPITALS, JOHN W. BRANNAN, M. D., President.
See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 2351, MUNICIPAL BUILDING, BOROUGH OF MANHATTAN, CITY OF NEW YORK.
SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m., on FRIDAY, DECEMBER 4, 1914.

BOARDS OF TRUSTEES, BELLEVUE AND ALLIED HOSPITALS, JOHN W. BRANNAN, M. D., President.
See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 2351, MUNICIPAL BUILDING, BOROUGH OF MANHATTAN, CITY OF NEW YORK.
SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m., on FRIDAY, DECEMBER 4, 1914.

BOARDS OF TRUSTEES, BELLEVUE AND ALLIED HOSPITALS, JOHN W. BRANNAN, M. D., President.
See General Instructions to Bidders on last page, last column, of the "City Record."

FOR HAULING AND LAYING WATER MAINS AND APPURTENANCES IN THIRD, MADISON AND PARK AVENUES, AND IN EAST 42ND STREET AND EAST 53RD STREET, BOROUGH OF MANHATTAN.

The time allowed for doing and completing the entire work will be Sixty (60) consecutive working days.

The security required will be Seven Thousand Dollars (\$7,000).

The bidder will state the price per unit of each item of work or supplies contained in the specifications or schedules, by which the bids will be tested. The bids will be compared and award made to the lowest formal bidder, in aggregate for all items.

Bidders are requested to make their bids or estimates upon the blank form prepared by the Department, a copy of which, with the proper envelope in which to enclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the Department, Room 2351, Municipal Building, Borough of Manhattan.

WILLIAM WILLIAMS, Commissioner.
Dated Nov. 20, 1914. n23,d4
See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 2351, MUNICIPAL BUILDING, BOROUGH OF MANHATTAN, CITY OF NEW YORK.
SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m., on FRIDAY, DECEMBER 4, 1914.

NO. 1. FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR EXCAVATION, MASONRY, CARPENTRY, STEEL AND IRON WORK, METAL WORK AND ROOFING, PAINTING AND GLAZING, HARDWARE, ELECTRIC WORK, REFRIGERATING AND DRINKING WATER, AND ALL OTHER WORK FOR THE ALTERATIONS TO THE PRESENT MAIN BUILDING OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be EIGHT THOUSAND FIVE HUNDRED DOLLARS (\$8,500.00).

NO. 2. FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR ADDITIONS AND ALTERATIONS TO THE STEAM AND HEATING WORK AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE PRESENT MAIN BUILDING OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be TWO THOUSAND FIVE HUNDRED DOLLARS (\$2,500.00).

NO. 3. FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR ADDITIONS AND ALTERATIONS TO THE PLUMBING AND GAS FITTING AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE PRESENT MAIN BUILDING OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be TWO THOUSAND FIVE HUNDRED DOLLARS (\$2,500.00).

NO. 4. FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR ADDITIONS AND ALTERATIONS TO THE PLUMBING AND GAS FITTING AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE PRESENT MAIN BUILDING OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be TWO THOUSAND FIVE HUNDRED DOLLARS (\$2,500.00).

NO. 5. FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR ADDITIONS AND ALTERATIONS TO THE PLUMBING AND GAS FITTING AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE PRESENT MAIN BUILDING OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be TWO THOUSAND FIVE HUNDRED DOLLARS (\$2,500.00).

NO. 6. FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR ADDITIONS AND ALTERATIONS TO THE PLUMBING AND GAS FITTING AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE PRESENT MAIN BUILDING OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be TWO THOUSAND FIVE HUNDRED DOLLARS (\$2,500.00).

NO. 7. FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR ADDITIONS AND ALTERATIONS TO THE PLUMBING AND GAS FITTING AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE PRESENT MAIN BUILDING OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be TWO THOUSAND FIVE HUNDRED DOLLARS (\$2,500.00).

NO. 8. FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR ADDITIONS AND ALTERATIONS TO THE PLUMBING AND GAS FITTING AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE PRESENT MAIN BUILDING OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be TWO THOUSAND FIVE HUNDRED DOLLARS (\$2,500.00).

NO. 9. FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR ADDITIONS AND ALTERATIONS TO THE PLUMBING AND GAS FITTING AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE PRESENT MAIN BUILDING OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be TWO THOUSAND FIVE HUNDRED DOLLARS (\$2,500.00).

NO. 10. FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR ADDITIONS AND ALTERATIONS TO THE PLUMBING AND GAS FITTING AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE PRESENT MAIN BUILDING OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be TWO THOUSAND FIVE HUNDRED DOLLARS (\$2,500.00).

NO. 11. FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR ADDITIONS AND ALTERATIONS TO THE PLUMBING AND GAS FITTING AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE PRESENT MAIN BUILDING OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be TWO THOUSAND FIVE HUNDRED DOLLARS (\$2,500.00).

NO. 12. FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR ADDITIONS AND ALTERATIONS TO THE PLUMBING AND GAS FITTING AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE PRESENT MAIN BUILDING OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be TWO THOUSAND FIVE HUNDRED DOLLARS (\$2,500.00).

TRY, ORNAMENTAL IRONWORK, STRUCTURAL STEEL AND IRONWORK, METAL WORK AND ROOFING, PAINTING, HARDWARE, ELECTRIC WORK, GAS FITTING AND OTHER WORK AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE ALTERATIONS TO THE POWER HOUSE AND AMBULANCE STATION OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be FIFTEEN THOUSAND DOLLARS (\$15,000).

NO. 2. FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR THE HEATING AND VENTILATING WORK AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE ALTERATIONS TO THE POWER HOUSE AND AMBULANCE STATION OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be THREE THOUSAND DOLLARS (\$3,000).

NO. 3. FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR THE PLUMBING WORK AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE ALTERATIONS TO THE POWER HOUSE AND AMBULANCE STATION OF THE HARLEM HOSPITAL, 136TH AND 137TH STREETS AND LENOX AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for the doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days.

The security required will be ONE THOUSAND DOLLARS (\$1,000).

The bids will be compared and the contracts awarded as soon thereafter as practicable, according to law.

Blank forms and further information may be obtained at the office of the Contract Clerk and Auditor, entrance No. 400 E. 29th st., Borough of Manhattan.

BOARD OF TRUSTEES, BELLEVUE AND ALLIED HOSPITALS, JOHN W. BRANNAN, M. D., President.
See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 2351, MUNICIPAL BUILDING, BOROUGH OF MANHATTAN, CITY OF NEW YORK.
SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m., on FRIDAY, DECEMBER 11, 1914.

NO. 1. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR RECONSTRUCTING SEWERS IN AVENUE V BETWEEN WEST 7TH AND WEST 8TH STREETS.

The Engineer's preliminary estimate of the quantities is as follows:

55 linear feet of 108 inch storm water sewer, reconstructed complete, including all incidentals and appurtenances; per linear foot, \$33.00..... \$1,815.00

65 linear feet of 42 inch sanitary sewer, reconstructed complete, including all incidentals and appurtenances; per linear foot, \$5.00..... 325.00

200 feet, Board Measure, of foundation planking, laid in place complete, including all incidentals and appurtenances; per thousand feet, Board Measure, \$30.00..... 6.00

Total \$2,146.00

The time allowed for the completion of the work and full performance of the contract will be Thirty (30) working days.

The amount of security required will be One Thousand Dollars (\$1,000.00).

NO. 2. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR RECONSTRUCTING SEWER IN 14TH AVENUE, BETWEEN 61ST AND 62ND STREETS.

The Engineer's preliminary estimate of the quantities is as follows:

12 linear feet of 36 inch cast iron pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$17.25..... \$1,587.00

One (1) manhole complete, with iron head and cover, including all incidentals and appurtenances; per manhole, \$160.00..... 160.00

Total \$1,747.00

The time allowed for the completion of the work and full performance of the contract will be Thirty (30) working days.

The amount of security required will be Eight Hundred and Fifty Dollars (\$850.00).

The foregoing Engineer's preliminary estimates of the total cost for the completed work are to be taken as the 100 per cent. basis and test for bidding. Proposals shall each state a single percentage of such 100 per cent. (such as 95 per cent., 100 per cent. or 105 per cent.) for which all materials and work called for in the proposed contract and the notices to bidders are to be furnished to the City. Such percentage as bid for this contract shall apply to all unit items specified in the Engineer's preliminary estimate to an amount necessary to complete the work described in the contract.

Blank forms and further information may be obtained at the office of the Bureau of Sewers, 215 Montague st., Borough of Brooklyn.

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

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM NO. 2, BOROUGH HALL, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.
SEALED BIDS OR ESTIMATES WILL BE received by the President of Borough of Brooklyn at the above office until 11 o'clock A. M., on FRIDAY, DECEMBER 11, 1914.

NO. 1. FOR DREDGING WALLABOUT CANAL FROM A POINT 150 FEET NORTH OF HEWES STREET TO A POINT 800 FEET NORTH OF HEWES STREET.

The Engineer's preliminary estimate of the quantities is as follows:

4,500 cubic yards, scow measurement.

The time allowed for the completion of the work and full performance of the contract will be Thirty (30) calendar days.

The amount of security required will be Thirteen Hundred Dollars (\$1,300.00).

The bidder will state the price of each item or article contained in the specifications or schedule

herein contained or hereto annexed per cubic yard (scow measurement) or other unit of measure, by which the bids will be tested.

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

Blank forms and further information may be obtained at the office of the Bureau of Sewers, the Borough of Brooklyn, No. 215 Montague Street, Brooklyn.

Dated, Nov. 27, 1914. n30,d11
See General Instructions to Bidders on last page, last column, of the "City Record."

herein contained or hereto annexed per cubic yard (scow measurement) or other unit of measure, by which the bids will be tested.

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

Blank forms and further information may be obtained at the office of the Bureau of Sewers, the Borough of Brooklyn, No. 215 Montague Street, Brooklyn.

Dated, Nov. 27, 1914. n30,d11
See General Instructions to Bidders on last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM NO. 2, BOROUGH HALL, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.
SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at the above office until eleven (11) o'clock A. M. on

WEDNESDAY, DECEMBER 9, 1914.
FOR FURNISHING AND INSTALLING THE MECHANICAL EQUIPMENT OF PUMPING STATION AT GREENPOINT AVENUE AND JEWELL ST. SECTION NO. 2. STORM WATER AND SANITARY SEWERS IN NORTH HENRY STREET FROM CALYER STREET TO GREENPOINT AVENUE, AND OUTLET SANITARY SEWERS WITH ACCOMPANYING STORM SEWERS IN GREENPOINT AVENUE FROM NORTH HENRY STREET TO JEWELL STREET, TOGETHER WITH A PUMPING STATION, PUMP WELL AND APPURTENANCES AT THE INTERSECTION OF GREENPOINT AVENUE AND JEWELL STREET.

The work to be done and the materials to be supplied are as follows:

Furnishing and delivering all labor and material and installing complete with all accessories, appliances and appurtenances two (2) direct connected motor driven vertical shaft type 8-inch centrifugal pumps, their driving motors, automatic electrical control apparatus, ventilating fan and motor, all switchboards, wiring for light and power, ladders, piping, valves and fittings in the pump chamber; screens, gratings, sluice-gate and platforms in the wet-well; and tearing down and re-erecting a manhole over the wet-well, also supplying a new manhole head and two covers cast from patterns furnished by The City.

The bidders will be required to guarantee the efficiency of the pumps and motors and the suitability of the outfit for the expected service.

The time allowed for the completion of the work and the full performance of the contract is sixty-five (65) working days.

The amount of security required is Two Thousand Two Hundred Dollars (\$2,200.00).

The bidder will be required to deposit a certified check or sum of money equal to five per centum (5%) of the amount of bond required.

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

Blank forms and further information may be obtained, and the plans and specifications may be seen at the office of the Bureau of Sewers, the Borough of Brooklyn, 215 Montague Street, Borough of Brooklyn.

L. H. POUNDS, President.
Dated, Nov. 10, 1914. n13,d9
See General Instructions to Bidders on last page, last column, of the "City Record."

BOARD OF ESTIMATE AND APPORTIONMENT.
Notice of Public Hearing.

FRANCHISE MATTERS.

PUBLIC NOTICE IS HEREBY GIVEN THAT the public hearing, in accordance with the provisions of Sections 525 and 527 of the Greater New York Charter, of all persons interested, in order that this Board may determine whether, in its opinion, the electrical conductors in White Plains Road between Gun Hill Road and 242nd Street, and in Gun Hill Road between Webster Avenue and the Boston Post Road, shall be placed underground, which hearing was, by resolution adopted July 30, 1914, fixed for September 21, 1914, and was continued from time to time, until Wednesday, November 25, 1914, was continued until Friday, December 18, 1914, at 10:30 o'clock A. M., Room 16, City Hall, Borough of Manhattan, at which time and place all persons interested will be afforded an opportunity to appear and be heard.

JAMES D. MCGANN, Assistant Secretary, Room 1307, Municipal Building, Centre and Chambers Streets, Borough of Manhattan. Telephone, 4560 Worth.

Dated, New York, November 25, 1914. n28,d18

PUBLIC NOTICE IS HEREBY GIVEN THAT at a meeting of the Board of Estimate and Apportionment held this day the public hearing on the form of contract for the grant of a franchise to The Yonkers Electric Light and Power Company; the Westchester Lighting Company; The New York Edison Company and The United Electric Light and Power Company, to construct, maintain and operate conductors, conduits, poles and towers for the operation of one line of poles and towers, and to install and maintain wires, cables and other conductors upon the Catskill Aqueduct Lands and other lands acquired for water supply purposes, between the northern boundary line of the City and the boundary line between the Counties of Westchester and Putnam, acquired or purchased by the City, pursuant to law, subject to the limitation set forth in the contract, which was, by resolution duly adopted, fixed for July 2, 1914, when it was continued until August 27, 1914, when it was continued until September 21, 1914, when it was continued until October 16, 1914, when it was continued until November 13, 1914, was continued until Friday, December 11, 1914, at 10:30 o'clock A. M., in Room 16, City Hall, Borough of Manhattan, when and where all citizens interested will have an opportunity to appear and be heard.

The amount of security required for the performance of the contract shall be thirty (30) per cent. of the total amount for which the contract is awarded. The deposit required shall be in an amount of not less than one and one-half (1½) per cent. of the total amount of the bid.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per foot, yard or other unit of measure or articles, by which the bids will be tested. The extensions must be made and footed up.

Blank forms and specifications may be had at the office of the Commissioner of Public Works, Bureau of Highways, Room 2124, Municipal Building, Borough of Manhattan.

MARCUS M. MARKS, President.

Dec. 3d, 1914. d3,14

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

OFFICE OF THE PRESIDENT OF THE BOROUGH OF MANHATTAN, MUNICIPAL BUILDING, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Manhattan at the offices, Commissioner of Public Works, Room 2034, Municipal Building, until 2 o'clock p. m., on

MONDAY, DECEMBER 14, 1914.

NO. 1. FURNISHING AND DELIVERING NINE (9) TRAILERS.

The time allowed for the complete delivery of nine trailers will be forty-five (45) consecutive calendar days.

The amount of security required for the performance of the contract shall be thirty (30) per cent. of the total amount for which the contract is awarded. The deposit required shall be in an amount of not less than one and one-half (1½) per cent. of the total amount of the bid.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per foot, yard or other unit of measure or articles, by which the bids will be tested. The extensions must be made and footed up.

Blank forms and specifications may be had at the office of the Commissioner of Public Works, Bureau of Highways, Room 2124, Municipal Building, Borough of Manhattan.

MARCUS M. MARKS, President.

Dec. 1st, 1914. d3,14

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

OFFICES OF THE PRESIDENT, BOROUGH OF MANHATTAN, MUNICIPAL BUILDING, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Manhattan at the offices of the Commissioner of Public Works, Room No. 2034, 20th floor, Municipal Building, until 2 o'clock p. m., on

MONDAY, DECEMBER 7, 1914.

FOR REGULATING AND REPAVING WITH SHEET ASPHALT ON A CONCRETE FOUNDATION THE ROADWAY OF 30TH STREET, FROM THE WEST SIDE OF 8TH AVENUE TO THE EAST SIDE OF 10TH AVENUE, TOGETHER WITH ALL THE WORK INCIDENTAL THERETO.

Engineer's Estimate of the Amount of Work to Be Done.

10 cu. yds. of Excavation.
10 cu. yds. of Filling.
3,310 lin. ft. of New 6" Granite Curbs.
10 lin. ft. of New 6" Granite Curbs.
10 lin. ft. of Old Bluestone Curb, Redressed.
10 sq. ft. of Concrete Sidewalk, Class "A."
30 lin. ft. Granite Headers.
1,060 cu. yds. Concrete.
5,390 sq. yds. Sheet Asphalt Pavement.
3,120 lin. ft. Old Bluestone Curb purchased by contractor.

The time allowed for doing and completing the above will be twenty-eight (28) working days.

The amount of security required will be Five thousand (\$5,000) dollars and the amount of deposit accompanying the bid shall be Five (5%) per cent. of the amount of security.

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

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per foot, yard or other unit of measure or articles, by which the bids will be tested. The extensions must be made and footed up.

Blank forms and specifications may be had at the office of the Commissioner of Public Works, Bureau of Highways, Room 2124, Municipal Building, Borough of Manhattan.

MARCUS M. MARKS, President.

Nov. 25th, 1914. n25,d7

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

BOARD OF ASSESSORS.

Notice to Present Claims for Damages.

PUBLIC NOTICE IS HEREBY GIVEN TO all persons claiming to have been injured by change of grade in the regulating and grading of the following named streets to present their claims, in writing, to the Secretary of the Board of Assessors, Room 809, Municipal Building, on or before December 10, 1914, at 10 o'clock a. m. Claimants are requested to make their claims for damages upon the blank form prepared by the Board of Assessors, copies of which may be obtained upon application at the above office.

Borough of The Bronx.

4452. East 141st Street from Park Avenue to Rider Avenue.

4453. East 190th Street from Jerome Avenue to Creston Avenue.

4454. Unionport Road from Morris Park Avenue to Walker Avenue.

Borough of Queens.

4460. Andrews (Helen) Street from Metropolitan Avenue to Zeidler Street, Second Ward.

4461. Edsall Avenue from Anthon Avenue to Onderdonk Avenue, Second Ward.

4462. Fairview Avenue from Forest Avenue to Woodbine Street, Second Ward.

4463. Vandewater Avenue from Second Avenue to Sixth Avenue, First Ward.

4464. Woodward Avenue from the Brooklyn Rapid Transit Railroad Crossing to Catalpa (Elm) Avenue, Second Ward.

4465. Gulon Avenue from Jamaica Avenue to Fulton Street, Fourth Ward.

4466. Nugget Place (Dakota Avenue) from Fulton (Eight) Street to Rockaway Boulevard, Fourth Ward.

4467. Well Place from Flushing Avenue to North Washington Place, First Ward.

ALFRED P. W. SEAMAN, WM. C. ORMOND, JACOB J. LESSER, Board of Assessors.

St. George B. Tucker, Secretary, Room 809, Municipal Building, City of New York, Borough of Manhattan.

November 28, 1914. n28,d9

Completion of Assessments.

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

Borough of Manhattan.

4410. Alteration and improvement to sewer in Avenue D from Fifth Street to Eighth Street.

Affecting Block Nos. 360, 363, 375, 376 and 377.

4413. Sewer in 191st Street between Audubon and St. Nicholas Avenues. Affecting Block No. 2161.

4422. Basin on the northwest corner of 123rd Street and Morningstar Avenue. Affecting Block No. 1964.

4423. Basins on the south side of Waverly Place—one at about the westerly house line of Sixth Avenue and another about 350 feet westerly therefrom. Affecting Block No. 592.

4436. Reconstruction of sewer in 111th Street between Manhattan and Eighth Avenues. Affecting Block No. 1846.

4437. Sewers and appurtenances in the Service Street forming the widening of Riverside Drive on its easterly side between 158th and 160th Streets, and in 160th Street between Riverside Drive and Fort Washington Avenue. Affecting Block No. 2136.

Borough of Queens.

4417. Regulating, grading, curbing, flagging, paving, etc., Fresh Pond Road from Myrtle Avenue to Woodbine Street, Second Ward. Affecting Block Nos. 2560 to 2562, 2569 to 2571, 2577 to 2579, 2583, 2584, 2599, 2613, 2614, 2616 to 2618, 2620, 2625, 2630, 2632, 2633 and 2741.

4434. Sewer and appurtenances in Cypress Avenue from Cooper Street to Vermont Avenue, Second Ward. Affecting Block Nos. 146, 160 to 162, 165, 171 to 175 and 178 to 191.

4435. Regulating, grading, curbing, flagging, paving, etc., (Cover) Avenue between De Kalb and Myrtle Avenues, Second Ward. Together with a list of awards for damages caused by a change of grade.

Borough of The Bronx.

4427. Paving and curbing Hoe Avenue from East 167th Street to West Farms Road.

Borough of Brooklyn.

4358. Regulating, grading, curbing and flagging 20th Avenue between West Street and 53rd Street.

4361. Paving Crown Street between Nostrand and New York Avenues.

4401. Paving Crown Street between Bedford and Rogers Avenues.

4402. Paving 86th Street between 16th and 18th Avenues.

4403. Regulating, grading, curbing and flagging Montgomery Street between Kingston and Albany Avenues.

4406. Curbing and flagging 82nd Street between 21st and Stillwell Avenues.

4407. Regulating, grading, curbing and flagging Herzl (Ames) Street between Livonia and Riverdale Avenues.

4408. Regulating, grading, curbing and flagging Pine Street between Atlantic Avenue and Fulton Street.

4430. Regulating, grading, curbing and flagging Canarsie Lane between Nostrand and New York Avenues.

4431. Regulating, grading, curbing and flagging Williams Avenue between Louisiana and Hegeman Avenues.

The area of assessment in the above mentioned lists extends to within half the block at the intersecting and terminating streets and avenues.

4317. Sewer in Canarsie Lane from Nostrand Avenue to East 31st Street. Affecting Block No. 4930.

All persons whose interests are affected by the above named proposed assessments, and who are opposed to the same or either of them, are requested to present their objections, in writing, to the Secretary of the Board of Assessors, Room 809, Municipal Building, New York, on or before December 29, 1914, at 10 a. m., at which time and place the said objections will be heard and testimony received in reference thereto.

ALFRED P. W. SEAMAN, WM. C. ORMOND, JACOB J. LESSER, Board of Assessors.

St. George B. Tucker, Secretary, Room 809, Municipal Building, City of New York, Borough of Manhattan.

November 28, 1914. n28,d9

DEPARTMENT OF PARKS.

Proposals.

OFFICE OF THE DEPARTMENT OF PARKS, MUNICIPAL BUILDING, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above office of the Department of Parks until 3 o'clock p. m., on

THURSDAY, DECEMBER 10, 1914.

Borough of The Bronx.

FOR FURNISHING ALL THE LABOR AND MATERIALS FOR MAKING REPAIRS TO THE COLONIAL MANSION IN VAN CORTLANDT PARK IN THE BOROUGH OF THE BRONX, IN THE CITY OF NEW YORK.

The time allowed for the completion of the contract is sixty (60) calendar days.

The amount of security required is One thousand dollars (\$1,000.00).

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

Blank forms and other information may be obtained at the office of the Department of Parks, Zbrowski Mansion, Claremont Park, Borough of The Bronx.

CABOT WARD, President; THOS. W. WHITTLE, RAYMOND V. INGERSOLL, JOHN E. WEIER, Park Commissioners.

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

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the description of the work to be done may be obtained at the office of the said Public Service Commission for one dollar each.

Dated, New York, December 1, 1914.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, By EDWARD E. McCALL, Chairman.

TRAVIS H. WHITNEY, Secretary. d3,22

Proposals.

INVITATION TO CONTRACTORS.

Part of the Broadway-Fourth Avenue Rapid Transit Railroad.

The Public Service Commission for the First District (hereinafter called the "Commission"), acting for and on behalf of The City of New York (hereinafter called the "City"), invites proposals to construct Section No. 4 of Routes Nos. 4 & 36, a part of the Broadway-Fourth Avenue Rapid Transit Railroad.

The points within the City between which the said part is to run and the route or routes to be followed are briefly as follows:

Section No. 4. Beginning at a point under Seventh Avenue near the southerly building line of West 51st Street, thence extending northerly under Seventh Avenue to a point about eighty-five (85) feet south of the southerly building line of West 59th Street; thence curving north-easterly under Seventh Avenue, West 59th Street and Central Park to a point about seventy-nine (79) feet east of the easterly building line of Seventh Avenue extended and about one hundred and thirty-seven (137) feet north of the south building line of West 59th Street, and including a spur curving northwesterly under Seventh Avenue, West 59th Street and Central Park to a point about twenty-two (22) feet west of the westerly building line of Seventh Avenue extended and one hundred and eighty-seven (187) feet north of the south building line of West 59th Street.

The general plan of construction calls for a sub-surface railroad having two, four and six tracks.

The Contractor will not be required to provide or lay tracks, ties or ballast nor to do station finish work.

The work under the contract will include the care and support of buildings, vaults, sewers, pipes, railroads and other surface, subsurface and overhead structures, the maintenance of traffic and the restoration of pavements and other surfaces.

The method of construction will be partly by tunneling and partly by trench excavation under cover, unless otherwise permitted by the Commission.

The Contractor will be required to prosecute the work of construction from working shafts located at the points specified in the contract.

Bidders must examine the form of contract and the specifications and contract drawings, must visit the location of the work and inform themselves of the conditions along the line of the work and make their own estimates of the facilities and difficulties attending the execution of the work.

A fuller description of the work and other requirements, provisions, details and specifications are given in the form of contract and in the contract drawings therein referred to. Copies of the form of contract, bond and contractor's proposal and of the contract drawings may be inspected and purchased at the office of the Commission, No. 154 Nassau Street, Borough of Manhattan, New York City. The forms of contract, bond and contractor's proposal and the contract drawings are to be deemed a part of this invitation.

Partial payments to the Contractor will be made monthly as the work proceeds, as provided in the contract.

The Contractor must complete the work within twenty-five (25) months from the delivery of the contract.

At the time of the delivery of the contract the Contractor must furnish security to the City by depositing a bond, cash or securities, in the sum of two hundred thousand dollars (\$200,000). As further security fifteen (15) per centum of the amounts certified from time to time to be due to the Contractor will be deducted until the amounts so deducted and retained shall equal ten (10) per centum of the total estimated amount to be paid to the Contractor under the contract. Thereafter there shall be so deducted and retained for such purpose ten (10) per centum of the amounts certified from time to time to be due to the Contractor.

Sealed bids or proposals will be received at the office of the Commission at No. 154 Nassau Street, Borough of Manhattan, City of New York, until the 11th day of December, 1914, at twelve fifteen (12:15) o'clock p. m., at which time and place, or at a later date to be fixed by the Commission, the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission.

A statement, based upon the estimate of the Chief Engineer of the Commission, of the quantities of the various classes of the work and of the nature and extent as near as practicable of the work is to be found in the schedule in the form of contractor's proposal. The quantities given in such schedule are approximate only, being given as a basis for the uniform comparison of bids, and no claim is to be made against the City on account of any excess or deficiency, absolute or relative, in the same except as provided in the specifications and form of contract.

Every proposal must when submitted be enclosed in a sealed envelope endorsed "Proposal for Constructing Part of Rapid Transit Railroad—Route Nos. 4 & 36, Section No. 4," and must be delivered to the Commission or its Secretary; and in the presence of the person submitting the proposal, it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be received unless accompanied by a separate certified check for twenty thousand dollars (\$20,000) payable to the order of the Comptroller of the City and drawn upon a national or state bank or trust company satisfactory to the Commission and having its principal office in New York City. Such check must not be enclosed in the envelope containing the proposal.

The Unit Prices must not be improperly balanced, and any bid which the Commission considers detrimental to the City's interests may be rejected.

No proposal, after it shall have been deposited with the Commission, will be allowed to be withdrawn for any reason whatever.

The award of the contract will be made by the Commission as soon as practicable after the opening of the proposals.

Deposits made by bidders whose proposals are not accepted will be returned within three (3) days after the contract is executed and delivered and its provisions in respect of the bond or deposit are complied with.

The right to reject any and all bids is reserved.

New York, November 17, 1914.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, By EDWARD E. McCALL, Chairman.

TRAVIS H. WHITNEY, Secretary. n18,d11

ARMORY BOARD.

Proposals.

OFFICE OF THE ARMORY BOARD, HALL OF RECORDS, MANHATTAN.

SEALED BIDS OR ESTIMATES WILL BE received at the office of the Mayor, City Hall, at 2:30 o'clock P. M.

WEDNESDAY, DECEMBER 16, 1914.

for the following:

ITEM NO. 1: ELECTRICAL EQUIPMENT, 1ST BATTALION, NAVAL MILITIA ARMORY, FOOT OF 97TH STREET, MANHATTAN.

Time allowed for the completion of the work, Forty (40) working days. Security required, \$1,000. Deposit required, \$50.

ITEM NO. 2: HEATING AND VENTILATING WORK, NEW 8TH ARTILLERY DISTRICT ARMORY, JEROME AVENUE AND KINGSBRIDGE ROAD, BOROUGH OF THE BRONX.

Time allowed for the completion of the work, 100 consecutive working days. Security required, \$12,500. Deposit required, \$500.

ITEM NO. 3: WATERPROOFING, 13TH COAST DEFENSE COMMAND, JEFFERSON AND SUMNER AVENUE, BOROUGH OF BROOKLYN.

Time allowed for the completion of the work, Forty-five consecutive working days. Security required, \$2,000. Deposit required, \$100.

ITEM NO. 4: PLUMBING WORK, 12TH REGIMENT ARMORY, 62ND STREET AND COLUMBUS AVENUE, MANHATTAN.

Time allowed for doing the work, Thirty consecutive working days. Security required, \$1,000. Deposit required, \$50.

ITEM NO. 5: ELECTRIC WIRING, NEW 8TH COAST DEFENSE COMMAND, JEROME AVENUE AND KINGSBRIDGE ROAD, BOROUGH OF THE BRONX.

Time allowed for the completion of the work, 100 consecutive working days. Security required, \$5,500. Deposit required, \$275.

A separate proposal shall be submitted for each item.

Blank forms and further information may be obtained at the office of The Armory Board, Hall of Records, Manhattan.

THE ARMORY BOARD—JOHN PURROY MITCHEL, Mayor; WILLIAM A. PRENDERGAST, Comptroller; GEORGE MCANENY, Pres't Board of Aldermen; GEORGE R. DYER, Brig. Gen. 1st Brig.; JOHN C. EDDY, Brig. Gen. 2nd Brig.; R. F. FORSHEW, Commodore, Naval Militia, N. Y.; LAWSON PURDY, Pres't Dept. of Taxes and Assessments.

Dec. 2, 1914. d2,16

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

DEPARTMENT OF EDUCATION.

Proposals.

DEPARTMENT OF EDUCATION, CORNER OF PARK AVENUE AND 59TH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education until three o'clock P. M., on

MONDAY, DECEMBER 14, 1914.

Borough of Queens.

NO. 1.—FOR OPERA CHAIRS FOR PUBLIC SCHOOL 85, ON DEBEVOISE AVENUE, NEAR WOOLSEY AVENUE, LONG ISLAND CITY, BOROUGH OF QUEENS.

The time allowed to complete the whole work will be sixty (60) working days, as

DEPARTMENT OF EDUCATION, CORNER OF PARK AVE. AND 59TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Supplies, at the above office of the Department of Education, until 11 A. M., on

FRIDAY, DECEMBER 11, 1914.
FOR PACKING, CARRYING, LOADING, CARTING, DELIVERING, TRANSFERRING, RETRANSFERRING, RETURNING, ETC., SCHOOL SUPPLIES TO THE SCHOOLS, PLAYGROUNDS, RECREATION CENTRES, DEPOSITORIES, ETC., OF THE CITY OF NEW YORK, IN THE BOROUGH OF MANHATTAN, THE BOROUGH OF BROOKLYN, QUEENS AND RICHMOND.

The value of the supplies to be delivered will be about \$1,600,000.

Supplies are to be delivered in baskets and packages to all schools in the City of New York, located in the Boroughs of Manhattan, The Bronx, Brooklyn, Queens and Richmond, at the time and in the manner and in such quantities as may be required.

All supplies must be delivered to the floors and rooms of the various school buildings, must be unpacked and assorted so that Principals and representatives may check same intelligently and itemized receipt presented the day of delivery, if possible, but not later than 9 A. M. on the day following.

Contractor will be required, when supplies are to be transferred from one school to another, to pack supplies in said school, transfer same and unpack them at the school or schools where they are delivered.

The time for the completion and performance of the contract is from January 1, 1915, to December 31, 1915, inclusive. The amount of security required is: For entire contract, Fifteen Thousand Dollars (\$15,000); for extra trucks or auto trucks, Two Hundred and Fifty Dollars (\$250) for each item.

The bidder will write out the amount of his bid, in addition to inserting the same in figures. Award of contract will be made to the lowest bidder on each item who proves to the satisfaction of the Committee on Supplies that he can do the work.

Bids must be submitted in duplicate, each in a separate envelope.

Blank forms and further information may be obtained in the office of the Superintendent of School Supplies, Board of Education, corner of Park ave. and 59th st., Borough of Manhattan.

PATRICK JONES, Superintendent of School Supplies.

Dated, November 30, 1914. n30,d11

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

DEPARTMENT OF EDUCATION, PARK AVE. AND 59TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Supplies at the above office of the Department of Education until 11 A. M., on

FRIDAY, DECEMBER 11, 1914.

FOR FURNISHING AND DELIVERING SUPPLIES FOR USE IN THE TRUANT SCHOOLS OF THE CITY OF NEW YORK, IN THE BOROUGH OF MANHATTAN, BROOKLYN AND QUEENS, AND ICE FOR OFFICES AND HIGH SCHOOLS.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before December 31, 1915.

The amount of security required is thirty (30%) per cent. of the amount of the contract.

The bidder will state the price of each item or article contained in the specifications and schedules herein contained or hereto annexed, per item, pound, dozen, gallon, yard, or other unit of measure, by which the bids will be tested.

Award will be made to the lowest bidder on each item.

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

Bids must be submitted in duplicate, each in a separate envelope.

Blank forms and further information may be obtained at the office of the Superintendent of School Supplies, Department of Education, Borough of Manhattan, southwest corner of Park ave. and 59th st.

PATRICK JONES, Superintendent of School Supplies.

Dated, November 30, 1914. n30,d11

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

DEPARTMENT OF EDUCATION, CORNER OF PARK AVE. AND 59TH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education until three o'clock P. M., on

MONDAY, DECEMBER 7, 1914.

Borough of Brooklyn.

NO. 10.—FOR ITEM 1, GENERAL CONSTRUCTION, ALSO ITEM 2, PLUMBING AND DRAINAGE OF ADDITIONS TO AND ALTERATIONS IN PUBLIC SCHOOL 18, ON THE NORTHEASTLY CORNER OF MAUJER AND LEONARD STREETS, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work of each item will be two hundred (200) working days, as provided in the contract.

The amount of security required is as follows: Item 1, \$50,000; Item 2, \$4,000.

The deposit accompanying bid on each item shall be five per centum of the amount of security.

A separate proposal must be submitted for each item and award will be made thereon.

On No. 10, the bidders must state the price of each item, by which the bids will be tested.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at Estimating Room, 9th floor, Hall of the Board of Education, Park Avenue and 59th Street, Borough of Manhattan, and also at Branch Office, No. 131 Livingston Street, Borough of Brooklyn.

C. B. J. SNYDER, Superintendent of School Buildings.

Dated, November 24, 1914. n24,d7

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

DEPARTMENT OF EDUCATION, CORNER OF PARK AVE. AND 59TH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education until three o'clock P. M., on

MONDAY, DECEMBER 7, 1914.

Borough of Brooklyn.

NO. 1.—FOR ADDITIONS, ALTERATIONS AND REPAIRS TO ELECTRIC EQUIPMENT IN THE BOYS' HIGH SCHOOL, AND IN PUBLIC SCHOOLS 82, 126 AND 141, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work on the Boys' High School will be fifty (50) working days, and on Public Schools 82, 126 and 141 thirty (30) working days, as provided in the contract.

The amount of security required is as follows: B. H. S., \$4,000; P. S. 82, \$500; P. S. 126, \$1,500; P. S. 141, \$1,500.

The deposit accompanying bid on each school

shall be five per centum of the amount of security.

A separate proposal must be submitted for each school and award will be made thereon.

NO. 2.—FOR ITEM 1, INSTALLING HEATING AND VENTILATING APPARATUS AND ITEM 2, INSTALLING TEMPERATURE REGULATION IN NEW PUBLIC SCHOOL 169, ON THE EASTERLY SIDE OF 7TH AVENUE, BETWEEN 43RD AND 44TH STREETS, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work on each item will be one hundred (100) working days, as provided in the contract.

The amount of security required is as follows: Item 1, \$20,000; Item 2, \$2,000.

The deposit accompanying bid on each item shall be five per centum of the amount of security.

A separate proposal must be submitted for each school and award will be made thereon.

NO. 3.—FOR INSTALLING ELECTRIC ELEVATOR IN MANUAL TRAINING HIGH SCHOOL, ON THE EASTERLY SIDE OF 7TH AVENUE, BETWEEN 4TH AND 5TH STREETS, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work will be ninety (90) working days, as provided in the contract.

The amount of security required is Three Thousand Dollars (\$3,000).

The deposit accompanying bid shall be five per centum of the amount of security.

On Nos. 1 and 2, the bidders must state the price of each item, by which the bids will be tested.

On No. 3, the bids will be compared and the contract will be awarded in a lump sum to the lowest bidder.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at Estimating Room, 9th floor, Hall of the Board of Education, Park Avenue and 59th Street, Borough of Manhattan, and also at Branch Office, No. 131 Livingston Street, Borough of Brooklyn.

C. B. J. SNYDER, Superintendent of School Buildings.

Dated, November 24, 1914. n24,d7

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

DEPARTMENT OF EDUCATION, CORNER OF PARK AVE. AND 59TH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education until three o'clock P. M., on

MONDAY, DECEMBER 7, 1914.

Various Boroughs.

NO. 9.—FOR FURNISHING AND DELIVERING NEW PIANOS TO VARIOUS SCHOOLS (OLD BUILDINGS) IN THE BOROUGH OF MANHATTAN, THE BOROUGH OF BROOKLYN, QUEENS AND RICHMOND.

The time allowed to complete the whole work will be one hundred and thirty (130) working days, as provided in the contract.

The amount of security required is One Hundred Dollars (\$100) per instrument on each item.

Bids will be considered by the Committee on Buildings only when made by the manufacturers.

Bidders must indicate on the outside of the envelopes containing the bids the number of instruments bid for under each item.

Bidders must state in the bid what action is to be supplied, and length of Grand Pianos.

A separate proposal must be submitted for each piano and award will be made thereon.

The deposit accompanying bid for each piano shall be five per centum of the amount of security.

Important.
Each bid or estimate must be accompanied by a statement showing the average prices obtained by the bidder in the wholesale trade, exclusive of sales to his own retail stores, for instruments of like grade, size and quality as those he at this time bids for. The average to be compiled from wholesale sales made, as aforesaid, during the three months next prior to the date of the bid.

This statement shall be in the form of an affidavit, executed before a Notary Public, and made by one of the firm submitting the bid; and shall be certified to by a certified public accountant, who shall certify that the prices quoted are true, without discount or rebate, and in accordance with the foregoing paragraph.

The statement shall be placed in a sealed envelope, which shall be marked "Price List," and shall have on the outside the name of the bidder. This shall be enclosed in the envelope containing the bid at the time that same is submitted to the Bid Clerk.

The statements which are so submitted are for the information of the Committee on Buildings, and will not, under any circumstances, be made public without the written consent of the bidder.

Any bid or estimate which is not accompanied by such a statement as is hereinbefore described will be considered as informal and invalid, and by reason of such failure, the said bid or estimate so accompanied will be so adjudged and treated.

On No. 6, the bidders must state the price of each item, by which the bids will be tested.

Blank forms and specifications may be obtained or seen at the office of the Superintendent of School Buildings, at Estimating Room, 9th floor, Hall of the Board of Education, Park Avenue and 59th Street, Borough of Manhattan, and also at Branch Office, No. 131 Livingston Street, Borough of Brooklyn.

C. B. J. SNYDER, Superintendent of School Buildings.

Dated, November 24, 1914. n24,d7

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

DEPARTMENT OF EDUCATION, CORNER OF PARK AVE. AND 59TH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education until three o'clock P. M., on

MONDAY, DECEMBER 7, 1914.

Various Boroughs.

NO. 8.—FOR INSTALLING PREVOCATIONAL SHOP EQUIPMENT IN PUBLIC SCHOOLS 64 AND 95, BOROUGH OF MANHATTAN, AND PUBLIC SCHOOLS 5 AND 158, BOROUGH OF BROOKLYN, AND PUBLIC SCHOOL 85, BOROUGH OF QUEENS.

The time allowed to complete all work of each school will be thirty (30) working days, as provided in the contract.

The amount of security required for each school is Three Hundred Dollars (\$300).

A separate bid must be submitted for each school and award will be made thereon.

Each bid or estimate must be accompanied by a certified check or cash to the amount of 2% per centum of the amount of the total aggregate cost of all items bid upon.

In case the aggregate cost of all items awarded to any one contractor is less than One Thousand Dollars (\$1,000) no bond or contract will be necessary for such contractor.

Only one bid will be received from a bidder for each item.

The attention of all intending bidders is expressly called to page 1 of the printed specifications.

The bidders must state the price of each item, by which the bids will be tested.

Blank forms, specifications and further information may be obtained at the office of the Superintendent of School Buildings, at Estimating Room, 9th floor, Hall of the Board of Education, Park Avenue and 59th Street, Borough of Manhattan, and also at Branch Office, No. 131 Livingston Street, Borough of Brooklyn.

C. B. J. SNYDER, Superintendent of School Buildings.

Dated, November 24, 1914. n24,d7

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

mation may be obtained at the office of the Superintendent of School Buildings, at Estimating Room, 9th floor, Hall of the Board of Education, Park Avenue and 59th Street, Borough of Manhattan.

C. B. J. SNYDER, Superintendent of School Buildings.

Dated, November 24, 1914. n24,d7

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

DEPARTMENT OF EDUCATION, CORNER OF PARK AVE. AND 59TH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education until three o'clock P. M., on

MONDAY, DECEMBER 7, 1914.

Borough of The Bronx.

NO. 4.—FOR ITEM 1, FLOORING, SLATE, CARPENTER AND IRON WORK, HARDWARE AND PAINTING, ALSO ITEM 2, PLUMBING FIXTURES AND CONNECTIONS AND PRIVATE SEWERS, FOR THE FITTING UP OF PUPILS' TOILETS AND TEACHERS' ROOM IN PUBLIC SCHOOL 47, ON THE SOUTHERLY SIDE OF RANDOLPH AVENUE, BETWEEN ST. LAWRENCE AND BEACH AVENUES, BOROUGH OF THE BRONX.

The time allowed to complete the whole work of each item will be ninety (90) working days, as provided in the contract.

The amount of security required is as follows: Item 1, \$1,000; Item 2, \$2,500.

The deposit accompanying bid on each item shall be five per centum of the amount of security.

A separate proposal must be submitted for each item and award will be made thereon.

Borough of Queens.

NO. 5.—FOR FURNITURE, ETC., FOR FLUSHING HIGH SCHOOL, ON BROADWAY, WHITESTONE AVENUE AND STATE STREET, FLUSHING, BOROUGH OF QUEENS.

The time allowed to complete the whole work on each item will be sixty (60) working days, as provided in the contract.

The amount of security required is as follows: Item 1, \$2,400; Item 2, \$600; Item 3, \$1,600; Item 4, \$1,600; Item 5, \$1,600; Item 6, \$2,200; Item 7, \$2,400; Item 8, \$1,000; Item 9, \$1,200; Item 10, \$4,200; Item 11, \$4,000.

The deposit accompanying bid on each item shall be five per centum of the amount of security.

A separate proposal must be submitted for each item and award will be made thereon.

NO. 6.—FOR ALTERATIONS AND ADDITIONS TO THE ELECTRIC LIGHT EQUIPMENT IN JAMAICA TRAINING SCHOOL, ON FLUSHING AND HIGHLAND AVENUES, JAMAICA, BOROUGH OF QUEENS.

The time allowed to complete the whole work will be forty (40) working days, as provided in the contract.

The amount of security required is Twenty-five Hundred Dollars (\$2,500).

The deposit accompanying bid shall be five per centum of the amount of security.

Borough of Richmond.

NO. 7.—FOR ALTERATIONS AND ADDITIONS TO THE ELECTRIC EQUIPMENT IN PUBLIC SCHOOL 15, ON ST. PAUL'S AVENUE AND GRANT STREET, TOMPKINSVILLE, BOROUGH OF RICHMOND.

The time allowed to complete the whole work will be forty (40) working days, as provided in the contract.

The amount of security required is Twelve Hundred Dollars (\$1,200).

The deposit accompanying bid shall be five per centum of the amount of security.

On Nos. 4 and 5 the bidders must state the price of each item, by which the bids will be tested.

On Nos. 6 and 7 the bids will be compared and the contract will be awarded in a lump sum to the lowest bidder on each contract.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at Estimating Room, 9th floor, Hall of the Board of Education, Park Avenue and 59th Street, Borough of Manhattan, and also at Branch Offices, No. 69 Broadway, Flushing, Borough of Queens, and Borough Hall, New Brighton, Borough of Richmond, for work for their respective Boroughs.

C. B. J. SNYDER, Superintendent of School Buildings.

Dated, November 24, 1914. n24,d7

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

BOARD OF CITY RECORD.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received at the office of the Supervisor of the City Record, Room 812, Municipal Building, in the City of New York, until 11 o'clock a. m., on

WEDNESDAY, DECEMBER 16, 1914.

FOR SUPPLYING PRINTED, LITHOGRAPHED OR BLANK BOOKS, DOCKETS, LIBERS, BINDING COVERS, BINDING, ETC., FOR THE USE OF THE COURTS AND THE DEPARTMENTS AND BUREAUS OF THE GOVERNMENT OF THE CITY OF NEW YORK DURING THE YEAR 1915.

The delivery shall be fully and entirely performed within one hundred and fifty (150) calendar days after the execution of the contract.

The Supervisor, however, may require delivery at an earlier date of any item or items on this contract by notice to the contractor, whereupon the item or items called for must be delivered not later than thirty days after said notice.

The amount of security shall be twenty-five (25) per cent. of the amount of the bid.

The bidder must state the item price for each item and the total price of each Department, Bureau or Court schedule. The bids will be tested and the award made by the schedule.

Bidders will write out the total amount of their estimates in addition to inserting the same in figures.

The said Board reserves the right to reject all bids or estimates if it deems it to be for the interest of the City so to do.

Delivery will be required to be made at the Distributing Division of the City Record at 96 and 98 Reade st., from time to time, and in such quantities as may be directed by the Supervisor of the City Record.

For particulars as to the quantity and quality of the supplies or the nature and extent of the work, reference must be made to the specifications, to be had at the office of the Supervisor and on file in the office of the Comptroller.

JOHN PURROY MITCHEL, Mayor; **FRANK L. POLK**, Corporation Counsel; **WM. A. PRENDERGAST**, Comptroller; Board of City Record.

The City of New York, December 2, 1914. d4,16

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

SEALED BIDS OR ESTIMATES WILL BE received at the office of the Supervisor of the City Record, Room 812, Municipal Building, in the City of New York, until 11 o'clock a. m., on

WEDNESDAY, DECEMBER 2, 1914.

FOR SUPPLYING PRINTED, LITHOGRAPHED OR STAMPED FORMS, PAMPHLETS, PRINTED BLANKS, PRINTED CARDS, TAGS, TICKETS, ETC., AND STATIONERY, INCLUDING LETTER AND WRITING PAPER AND ENVELOPES, WITH PRINTED HEADINGS OR INDORSEMENTS, ETC., FOR THE USE OF THE COURTS AND THE DEPARTMENTS AND BUREAUS OF THE GOVERNMENT OF THE CITY OF NEW YORK DURING THE YEAR 1915.

The delivery shall be fully and entirely performed within one hundred and fifty (150) calendar days after the execution of the contract.

The amount of security shall be thirty (30) per cent. of the amount of the bid.

The bidder must state the price for each item and the total price of each schedule. The bids will be tested and the award will be made to the bidder whose bid is the lowest for each schedule.

Bidders will write out the total amount of their estimates, in addition to inserting the same in figures.

Delivery will be required to be made at the Distributing Division of the City Record, 96 and 98 Reade st., from time to time and in such quantities as may be directed by the Supervisor of the City Record.

Bidders are requested to make their bids or estimates upon the blank form prepared by the Board of City Record, a copy of which, with the proper envelope in which to enclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the City Record, where further information can be obtained.

JOHN PURROY MITCHEL, Mayor; **FRANK L. POLK**, Corporation Counsel; **WM. A. PRENDERGAST**, Comptroller; Board of City Record.

New York, November 13th, 1914. n13,d9

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

DEPARTMENT OF STREET CLEANING.

Proposals.

MAIN OFFICE OF THE DEPARTMENT OF STREET CLEANING, ROOM 1244, MUNICIPAL BUILDING, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

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

FRIDAY, DECEMBER 11, 1914.

Borough of Manhattan (Zone 1).

FOR FURNISHING AND DELIVERING FORAGE—210,000 LBS. OF HAY.

The time allowed for the delivery of materials and supplies and the performance of the contract is on or before December 30, 1914.

The amount of security required is 30% of the amount of the bid.

Bids must be submitted in duplicate in separate envelopes.

The bidder will state the price per hundred pounds, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total, and awards made to the lowest bidder on the total.

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

Blank forms and further information may be obtained at the office of the Department of

1,650 lin. ft. of Cement Curb with Steel Nosing and one year's maintenance.
8,100 sq. ft. of Cement Sidewalk, and one year's maintenance.
100 sq. ft. of New Crosswalks.
100 cubic yards of Concrete.

2 Sewer Manholes rebuilt (not to be bid for).
The bidder must state the price of each item or article contained in the specification or schedule herein contained or hereafter annexed, per square yard, linear foot or other unit of measure, by which the bids will be tested. Bids will be compared and the contract awarded at a lump or aggregate sum. Blank forms may be obtained and the plans or drawings may be seen at the office of the President of the Borough of Queens.
Dated, November 30th, 1914.

MAURICE E. CONNOLLY, President.
n30,d10

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

OFFICE OF THE PRESIDENT OF THE BOROUGH OF QUEENS, THIRD FLOOR OF THE BOROUGH HALL, 5TH STREET AND JACKSON AVENUE, LONG ISLAND CITY, BOROUGH OF QUEENS, CITY OF NEW YORK. SEALED BIDS OR ESTIMATES WILL BE RECEIVED BY THE PRESIDENT OF THE BOROUGH OF QUEENS AT THE ABOVE OFFICE UNTIL 11:00 A. M. ON THURSDAY, DECEMBER 10, 1914.

NO. 1: FOR CONSTRUCTING A SEWER AND APPURTENANCES IN FOREST AVENUE FROM MYRTLE AVENUE TO HALL-LECK AVENUE, SECOND WARD OF THE BOROUGH OF QUEENS.

The Engineer's estimate of the quantities is as follows:
165 Lin. Ft. of 12-inch Vitrified salt-glazed pipe sewer.
2 Manholes, Complete.

108 Linear Feet of 6-inch Vitrified salt-glazed pipe for House Connection Drains.
9 Spurs on 12-inch Vitrified salt-glazed pipe sewer.

1,000 Feet B. M. Timber for bracing and sheet piling.
The time allowed for completing the above work will be ten (10) working days.

The amount of security required will be Three Hundred (\$300.00) Dollars.

NO. 2: FOR CONSTRUCTING A SEWER AND APPURTENANCES IN BEAUFORT AVENUE FROM BRIGGS AVENUE TO LEFFERTS AVENUE, FOURTH WARD OF THE BOROUGH OF QUEENS.

The Engineer's estimate of the quantities is as follows:
380 Linear Feet of 12-inch Vitrified salt-glazed pipe sewer.

4 Manholes, Complete.

21 Spurs on 12-inch Vitrified salt-glazed pipe sewer.

208 Linear Feet of 6-inch Vitrified salt-glazed pipe for House Connection Drains.

The time allowed for completing the above work will be twenty (20) working days.

The amount of security required will be Six Hundred (\$600.00) Dollars.

NO. 3: FOR CONSTRUCTING A SEWER AND APPURTENANCES IN WILBUR AVENUE FROM WILLIAM STREET TO ELY AVENUE, FIRST WARD OF THE BOROUGH OF QUEENS.

The Engineer's estimate of the quantities is as follows:
193 Linear Feet of 12-inch Vitrified salt-glazed pipe sewer.

2 Manholes, Complete.

7 Spurs on 12-inch Vitrified salt-glazed pipe sewer.

112 Lin. Ft. of 6-inch Vitrified salt-glazed pipe for House Connection Drains.

1,000 Feet B. M. Timber for bracing and sheet piling.

The time allowed for completing the above work will be twenty (20) working days.

The amount of security required will be Two Hundred and Fifty (\$250.00) Dollars.

NO. 4: FOR CONSTRUCTING A SEWER AND APPURTENANCES IN BIRCH STREET FROM JAMAICA AVENUE TO HILLSIDE AVENUE, FOURTH WARD OF THE BOROUGH OF QUEENS.

The Engineer's estimate of the quantities is as follows:
532 Lin. Ft. of 12-inch Vitrified salt-glazed pipe sewer.

5 Manholes, Complete.

1 Single receiving basin, Complete.

25 Lin. Ft. of 12-inch Vitrified salt-glazed pipe for basin connections.

19 Spurs on 12-inch Vitrified salt-glazed pipe sewer.

304 Lin. Ft. of 6-inch Vitrified salt-glazed pipe for House Connection Drains.

The time allowed for completing the above work will be thirty (30) working days.

The amount of security required will be Nine Hundred (\$900.00) Dollars.

NO. 5: FOR CONSTRUCTING RECEIVING BASINS AND APPURTENANCES ON THE EASTERLY AND WESTERLY SIDES OF PURVIS STREET AND THOMSON AVENUE, FIRST WARD OF THE BOROUGH OF QUEENS.

The Engineer's estimate of the quantities is as follows:
2 Single receiving basins, Complete.

40 Lin. Ft. of 12-inch Vitrified salt-glazed pipe for basin connections.

The time allowed for completing the above work will be ten (10) working days.

The amount of security required will be One Hundred and Twenty-five (\$125.00) Dollars.

NO. 6: FOR CONSTRUCTING A RECEIVING BASIN AND APPURTENANCES ON THE WESTERLY CORNER OF TWELFTH AVENUE AND NEWTOWN ROAD, FIRST WARD OF THE BOROUGH OF QUEENS.

The Engineer's estimate of the quantities is as follows:
1 Single receiving basin, Complete.

16 Lin. Ft. of 12-inch Vitrified salt-glazed pipe for basin connections.

The time required for completing the above work will be six (6) working days.

The amount of security required will be Ninety (\$90.00) Dollars.

NO. 7: FOR CONSTRUCTING RECEIVING BASINS AND APPURTENANCES ON WOOLSEY AVENUE, ON NORTHERLY AND EASTERLY CORNERS OF SEVENTH AVE., ON THE NORTHERLY AND EASTERLY CORNERS OF SIXTH AVENUE, AND ON THE EASTERLY CORNER OF PARK PLACE, FIRST WARD OF THE BOROUGH OF QUEENS.

The Engineer's estimate of the quantities is as follows:
5 Single receiving basins, Complete.

175 Lin. Ft. 12-inch Vitrified salt-glazed pipe for basin connections.

The time required for completing the above work will be fifteen (15) working days.

The amount of security required will be Five Hundred (\$500.00) Dollars.

NO. 8: FOR CONSTRUCTING AND REPAIRING SYPHON AND APPURTENANCES UNDER BROADWAY, ELMHURST L. I. (KNOWN AS HORSE BROOK SYPHON), SECOND WARD OF THE BOROUGH OF QUEENS.

The Engineer's estimate of the quantities is as follows:
204 Lin. Ft. 16-inch cast iron pipe (Weight, 114 Lbs. per Foot), furnished and laid.

90 Cu. Yds. excavation, earth, mud, etc. (including pumping).

17 Cu. Yds. excavation, rock and masonry.

2 Reinforced concrete siphon chambers, including manholes and wing walls complete.

135 Lin. Ft. reinforced concrete invert.

60 Lin. Ft. of brick siphon to be pointed.

12 Cu. Yds. extra concrete, Class "A," in place, exclusive of concrete shown on plan.

500 Lbs. extra reinforcing steel, in place, exclusive of reinforcing steel shown on plan.

1,000 Brick, furnished and laid.

100 Lin. Ft. of earth channel approaches to be graded.

The time required for completing the above work will be thirty (30) working days.

The amount of security required will be One Thousand (\$1,000.00) Dollars.

The bidder must state the price of each item or article contained in the specifications herein contained, or hereinafter annexed, per square yard, per linear foot, or other unit of measure, by which the bids will be tested. The extensions must be footed up, as the bids will be read from a total. Bids will be compared and the contract awarded at a lump or aggregate sum. Blank forms may be obtained and the plans or drawings may be seen at the office of the President of the Borough of Queens.

Dated, November 30th, 1914.

MAURICE E. CONNOLLY, President.
n30,d10

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

DEPARTMENT OF FINANCE.

Interest on City Bonds and Stock.

THE INTEREST DUE JANUARY 1, 1915, ON registered bonds and stock of The City of New York, and of former corporations now included therein, will be paid on January 2, 1915, by the Comptroller at his office (Room 853) in the Municipal Building, Centre and Chambers sts., in the Borough of Manhattan.

The interest due January 1, 1915, on the coupon bonds of the late City of Brooklyn will be paid on January 2, 1915, by the Nassau National Bank of Brooklyn, 26 Court st., in the Borough of Brooklyn.

The interest due on January 1, 1915, on coupon bonds of former corporations now included in The City of New York, except the late City of Brooklyn and the former County of Queens, will be paid on January 2, 1915, at the office of the Guaranty Trust Co. of New York, 140 Broadway, Borough of Manhattan.

The coupons that are payable on January 1, 1914, for interest on bonds issued by the former County of Queens will be paid on January 2, 1915, at the Queens County Bank, Branch of the Corn Exchange Bank, Borden ave. and Front st., Long Island City.

The books for the transfer of bonds and stock on which interest is due on January 1, 1915, will be closed from December 15, 1914, to January 2, 1915.

WM. A. PRENDERGAST, Comptroller.
City of New York, Department of Finance,
Comptroller's Office, December 2, 1914.
d4,j1

Corporation Sales of Buildings.

CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE BY SEALED BIDS.

AT THE REQUEST OF THE PRESIDENT of the Borough of Brooklyn, public notice is hereby given that the Commissioners of the Sinking Fund, by virtue of the powers vested in them by law, will offer for sale by sealed bids certain buildings, etc., standing upon property owned by The City of New York, formerly used for Municipal purposes in the Borough of Brooklyn.

BEING the Municipal Building and appurtenances thereto in the Borough of Brooklyn, which is more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room 368, Municipal Building, Borough of Manhattan.

PURSUANT to a resolution of the Commissioners of the Sinking Fund, adopted at a meeting held June 10, 1914, the sale by sealed bids of the above described buildings and appurtenances thereto will be held by direction of the Comptroller on

FRIDAY, DECEMBER 18, 1914,

at 11:00 A. M., in lots and parcels and in manner and form as follows:

PARCEL NO. 1: The Municipal Building and appurtenances thereto, excepting boilers No. 1 and No. 2, in the Borough of Brooklyn.

The boilers No. 1 and No. 2 are to be protected by the purchaser of the building during its demolition by heavy planking in such a manner as to preserve them from injury of any kind and said planking is to be removed when the building has been completely razed.

The purchaser will be required to place a heavy covered way over the alley-way in the rear of the building to allow free access for horses and wagons to the adjoining lot. He will also be required to build a heavily constructed covered way in front of the building for the protection of the public and to remove all materials by means of shutes.

When the work of removal is completed the purchaser of the building will be required to erect a closed wooden fence 6 feet high surrounding the lot, from rear and sides, and to paint the outer side of said fence with at least two coats of white paint.

Sealed bids (blank forms of which may be obtained upon application) will be received by the Comptroller at the office of the Collector of City Revenue, Room 368, Municipal Building, Borough of Manhattan, until 11:00 a. m. on the 18th day of Dec., 1914, and then publicly opened for the sale for removal of the above-described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

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

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

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

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

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

All bids must state clearly (1) the number or description of the building or buildings bid for,

(2) the amount of the bid, (3) the full name and address of the bidder.

All bids must be enclosed in properly sealed envelopes, marked "Proposals to be opened December 18, 1914," and must be delivered, or mailed in time for their delivery, prior to 11 a. m. of that date to the "Collector of City Revenue, Room 368, Municipal Building, New York City," from whom any further particulars regarding the buildings to be disposed of may be obtained.

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

WM. A. PRENDERGAST, Comptroller.
City of New York, Department of Finance,
Comptroller's Office, November 30, 1914.
d2,18

Confirmation of Assessments.

NOTICE OF ASSESSMENTS FOR OPENING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1005 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice of the confirmation by the Supreme Court and the entering in the Bureau for the Collection of Assessments and Arrears of the assessment for OPENING AND ACQUIRING TITLE to the following named Street and Avenue in the Borough of Brooklyn:

TWENTY-SIXTH AND THIRTY-SECOND STREETS, SECTION 12.

THATFORD AVENUE—OPENING, from Riverdale Avenue to Stanley Avenue, and OSBORNE STREET—OPENING, from Riverdale Avenue to Vienna Avenue. Confirmed October 14, 1914; entered November 25, 1914. Area of Assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

BEGINNING at a point on a line midway between Rockaway Avenue and Thatford Avenue, distant 100 feet northerly from the northerly line of Riverdale Avenue, and running thence easterly and parallel with Riverdale Avenue to the intersection with a line midway between Osborne Street and Watkins Street; thence southwardly along the said line midway between Osborne Street and Watkins Street to a point distant 100 feet southwardly from the southerly line of Vienna Avenue; thence westwardly and parallel with Vienna Avenue to the intersection with a line midway between Thatford Avenue and Osborne Street; thence southwardly along the said line midway between Thatford Avenue and Osborne Street to a point distant 100 feet southwardly from the southerly line of Stanley Avenue; thence westwardly and parallel with Stanley Avenue to the intersection with a line midway between Rockaway Avenue and Thatford Avenue; thence northwardly along the said line midway between Rockaway Avenue and Thatford Avenue to the point or place of BEGINNING.

THIRTY AND THIRTY-FIRST WARDS, SECTIONS 19, 20, 21.

EIGHTY-FIRST STREET—OPENING, from Fourteenth Avenue to Stillwell Avenue, excepting the lands occupied by the tracks of the Brooklyn Bath and West End Railroad. Confirmed August 7, 1914; entered November 25, 1914. Area of Assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

BEGINNING at a point on a line midway between Eighty-first Street and Eighty-second Street, distant 100 feet northwesterly from the northwesterly line of Fourteenth Avenue, and running thence southeasterly along the said line midway between Eighty-first Street and Eighty-second Street to the intersection with the westerly line of Stillwell Avenue; thence easterly at right angles to Stillwell Avenue a distance of 200 feet; thence southwardly and parallel with Stillwell Avenue to the intersection with a line at right angles to Stillwell Avenue, and passing through a point on its easterly side where it is intersected by the prolongation of a line midway between Eighty-first Street and Eighty-second Street; thence westwardly along the said line at right angles to Stillwell Avenue to its easterly side; thence northwesterly along the said line midway between Eighty-first Street and Eighty-second Street and the prolongation of the said line to the intersection with a line parallel with Fourteenth Avenue, and passing through the point of beginning; thence northwesterly, and parallel with Fourteenth Avenue to the point or place of BEGINNING.

That the same were entered on the date herebefore given in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessments, interest will be collected thereon, as provided by section 1019 of the Greater New York Charter.

Said section provides, in part, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides: "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record."

The above assessments are payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Offman Building, 503 Fulton Street, Borough of Brooklyn, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 25, 1915, will be exempt from interest as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when such assessments became liens to the date of payment.

WILLIAM A. PRENDERGAST, Comptroller.
City of New York, Department of Finance,
Comptroller's Office, November 25, 1914.
n30,d10

NOTICE TO PROPERTY OWNERS.

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

FIRST WARD.

WILLOW STREET—PAVING, from Main Street to Hoyt Avenue. Area of assessment: Both sides of Willow Street from Franklin Street to Main Street, and to the extent of half the block at the intersecting streets.

—that the same were confirmed by the Board of Assessors on November 24, 1914, and entered November 24, 1914, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Offman Building, No. 503 Fulton Street, Borough of Brooklyn, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 23,

tion of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessments, interest will be collected thereon, as provided by section 1019 of the Greater New York Charter.

Said section provides, in part, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides: "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record."

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, Court House Square, Long Island City, Borough of Queens, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 23, 1915, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when such assessment became a lien to the date of payment.

WM. A. PRENDERGAST, Comptroller.
City of New York, Department of Finance,
Comptroller's Office, November 24, 1914.
n30,d10

NOTICE TO PROPERTY OWNERS.

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

TWENTY-SIXTH WARD, SECTION 12.

SEWER IN TAPSCOTT STREET, east roadway, from Blake Avenue southerly about 200 feet; SEWER IN HOWARD AVENUE, west roadway, from Blake Avenue northerly about 220 feet; SEWER BASINS ON TAPSCOTT STREET, northeast corner of Dumont Avenue and northerly and easterly corners of East Ninety-eighth Street, and EXTENSIONS of the house connection drains in HOWARD AVENUE from Sutter Avenue to Blake Avenue, and in TAPSCOTT STREET from Blake Avenue to East Ninety-eighth Street. Area of assessment affects adjacent property, including Blocks Nos. 3533, 3534, 3550 and 3565.

ROCKAWAY AVENUE—PAVING, between Riverdale and Lot Avenues. Area of assessment: Both sides of Rockaway Avenue from Riverdale to Lot Avenues, and to the extent of half the block at the intersecting avenues.

TWENTY-NINTH WARD, SECTION 16.

THIRD STREET—PAVING, from Eighteenth Avenue to Foster Avenue. Area of assessment: Both sides of Third Street from Eighteenth to Foster Avenues, and to the extent of half the block at the intersecting avenues.

SEWER IN CATON AVENUE between Ocean Parkway and East Fifth Street, and OUTLET IN ALBEMARLE ROAD between Ocean Parkway and East Fifth Street. Area of assessment affects property in the adjacent blocks, Nos. 5284, 5285, 5286, 5287, 5319, 5320, 5321, 5322, 5328, 5329 and 5338.

FORTY-FIRST STREET—PAVING between Fourteenth and Fifteenth Avenues. Area of assessment: Both sides of Forty-first Street from Fourteenth to Fifteenth Avenues, and to the extent of half the block at the intersecting avenues.

THIRTIETH WARD, SECTION 17.

SIXTY-THIRD STREET—PAVING AND CURBING, between Twentieth and Twenty-first Avenues. Area of assessment: Both sides of Sixty-third Street from Twentieth to Twenty-first Avenues, and to the extent of half the block at the intersecting avenues.

THIRTIETH WARD, SECTION 19.

SEWER IN SEVENTY-FIRST STREET, between Fifteenth and New Utrecht Avenues, and in NEW UTRECHT AVENUE, west side, between Seventieth and Seventy-second Streets. Area of assessment affects property in Blocks Nos. 6169 and 6180.

SEWERS IN SEVENTEENTH AVENUE from Eighty-first Street to Eighty-second Street, and from Eighty-third to Eighty-fourth Streets; in EIGHTIETH STREET between Sixteenth and Seventeenth Avenues; and in EIGHTY-FIRST STREET between Fifteenth and Seventeenth Avenues. Area of assessment affects property in Blocks Nos. 6281, 6282, 6283, 6293, 6294, 6295, 6312 and 6313.

SEVENTEENTH AVENUE—REGULATING, GRADING, CURBING AND FLAGGING, between Seventy-ninth Street and Eighty-fourth Street. Area of assessment: Both sides of Seventeenth Avenue from Seventy-ninth to Eighty-fourth Streets and to the extent of half the block at the intersecting streets.

THIRTY-FIRST WARD—SECTION 21.

WEST TWENTY-EIGHTH STREET—PAVING, between Surf and Mermaid Avenues. Area of assessment: Both sides of West Twenty-eighth Street from Surf to Mermaid Avenues, and to the extent of half the block at the intersecting avenues.

THIRTY-SECOND WARD, SECTION 23.

HUBBARD PLACE—SEWER BASINS at the west and south corners of East Fortieth Street. Area of assessment affects property in Blocks Nos. 7809 and 7811.

—that the same were confirmed by the Board of Assessors on November 24, 1914, and entered on November 24, 1914, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessments, interest will be collected thereon, as provided by section 1019 of the Greater New York Charter.

Said section provides, in part, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides: "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record."

The above assessments are payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Offman Building, No. 503 Fulton Street, Borough of Brooklyn, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 23,

MUNICIPAL CIVIL SERVICE COMMISSION, NEW YORK, MUNICIPAL BUILDING, MANHATTAN, NOV. 6, 1914.

Amended Notice.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from FRIDAY, NOVEMBER 27, 1914, TO FRIDAY, DECEMBER 11, 1914, for the position of

SUPERVISING INSPECTOR, PUBLIC BUILDINGS AND OFFICES, GR. 5.

No applications delivered at the office of the Commission by mail or otherwise, after 4 P. M., FRIDAY, DECEMBER 11, 1914, will be accepted.

Application blanks will be mailed upon request provided a self-addressed stamped envelope, or four cents in postage stamps, accompany the request, but the Commission will not guarantee the delivery of the same. Applications forwarded by mail upon which postage is not fully prepaid will not be accepted.

Applicants must be citizens of the United States and residents of the State of New York.

The duties of the position comprise the charge of personnel employed in the Public Buildings and Offices within the Bureau of the Borough President of Manhattan. The Supervising Inspector has immediate control over the employees in baths, comfort station, court houses, municipal buildings, etc., who are engaged in cleaning or operating the plans or are employed as repairers. He has the responsibility for the proper conduct and efficiency of engineers, attendants, mechanics, and other squads of employees of both sexes. He examines into complaints of tenants of buildings, visitors, as to conditions or attendance. He maintains daily record of work done, inspections made, repairs, and attendance on all utilities. He must be a good judge of labor and have had the necessary experience in handling men that will ensure an ability to meet the needs of the service and the character of the work accomplished.

Subjects and weights: Experience, 5; duties, including report, 5. 75 per cent. on duties, 70 per cent. on experience and 70 per cent. required on all. To meet the above requirements, it is essential that the candidate shall show a continued employment in large building or buildings for at least five years as Superintendent of the same in charge of employees of the general character mentioned above or the equivalent.

Applications for this examination must be filed on a special blank, Form C. Experience blanks will be issued with the applications and must be filed with the Commission at the time of filing applications. The Experience will then be rated. Candidates failing to receive 70 per cent. on the Experience paper will not be summoned for the physical examination. Candidates failing to pass the physical examination will not be summoned for the mental test.

The candidates will be tested on their knowledge of the equipment of public buildings, tools, appliances, and materials used in cleaning and operating the same. They will be required to submit a bill of materials and estimates of labor required for known conditions in one of the buildings. They will also be called upon to write a report upon some phase of their prospective duties.

One vacancy exists in the office of the Borough President of Manhattan. Salary, \$3,000 per annum. Minimum age, 21.

R. W. BELCHER, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, NEW YORK, MUNICIPAL BUILDING, MANHATTAN, NOV. 27, 1914.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from FRIDAY, NOVEMBER 27, 1914, TO FRIDAY, DECEMBER 11, 1914, for the position of

FOREMAN ASPHALT WORKER.

No applications delivered at the office of the Commission, by mail or otherwise, after 4 P. M., FRIDAY, DECEMBER 11, 1914, will be accepted.

Application blanks will be mailed upon request provided a self-addressed stamped envelope, or proper postage, is enclosed with the request, but the Commission will not guarantee the delivery of the same. Applications forwarded by mail upon which postage is not fully prepaid will not be accepted.

Applicants must be citizens of the United States and residents of the State of New York.

The subjects and weights are: Experience, 5; Duties, 5. 70% required on Duties and 70% on all.

Applications for this examination must be filed on a special blank, Form B. Experience blanks will be issued with the applications and must be filed with the Commission at the time of filing applications. The Experience will then be rated. Those not passing 70% will not be notified for a physical examination. Those who pass the physical examination will be summoned for a mental examination at a time to be specified later.

The duties of the Foreman Asphalt Worker include assignment to the Manhattan or Brooklyn Municipal Asphalt Repair plant to take charge of a gang working inside the plant or outside on surfacing. He will have responsibility for tools, the work of the roller and all men assigned to his gang. He may be engaged upon mixing gangs or laying gangs as occasion requires. Candidates must show continuous experience for at least five years at mixing or laying of asphalt in new or repair work, either in the capacity of Foreman or Steam Roller Engineman; or they have served upon public works as an inspector for five years with at least one additional year exclusively devoted to asphalt making, testing or laying. Rakers or tamers who have occasionally directed men must show other experience in pavement work equal to the requirement as above. Candidates will be tested on their ability to compute weights and volumes of cars or piles; how to locate a repair spot for report and later identification; the preparation of time sheets; daily reports of work done; how to cut and repair defects; the treatment of asphalt; the proper temperatures; time of rolling; direction of rolling; general supervision of men and the care of tools, supplies and materials.

There are seven vacancies in the office of the Borough President of Manhattan at the Municipal Asphalt Repair Plant. Appointments may also be made from this list to positions of like grade at the plant in Brooklyn.

Minimum age, 21 years. Salary, \$4.50 per day.

R. W. BELCHER, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, NEW YORK, MUNICIPAL BUILDING, MANHATTAN, NOV. 25, 1914.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from WEDNESDAY, NOVEMBER 25, 1914, TO THURSDAY, DECEMBER 10, 1914, for the position of

CIVIL SERVICE EXAMINER, MALE AND FEMALE.

No applications delivered at the office of the Commission, by mail or otherwise, after 4 P. M., THURSDAY, DECEMBER 10, 1914, will be accepted. Application blanks will be mailed upon request provided a self-addressed stamped envelope or sufficient postage is enclosed to cover the mailing. The Commission will not guarantee the delivery of the same. Applications forwarded by mail, upon which sufficient postage is not prepaid, will not be accepted.

Applicants must be citizens of the United States and residents of the State of New York. The subjects and weights of the examination are: Duties, 5; 70% required; Experience, 3; Oral in duties, 2; 70% required. 70% on the total written examination required. Candidates should have had training and experience to qualify them for the following Duties:

1.—The preparation of questions for examinations; 2.—The rating of examination papers; 3.—Field work and investigations in City departments to determine the exact nature of the duties of positions in the Competitive Class, preliminary to preparing and rating examinations.

Applications for this examination must be filed on a special blank, Form C. Experience blanks will be issued with the applications and must be forwarded to the Commission with applications. Those who pass the physical examination will be summoned for the mental examination. Those who pass the written examinations will be summoned for the oral examination.

The minimum age is 21 years. Salary—one vacancy at \$2,400 per annum; one at \$2,100 per annum; and Per Diem vacancies at \$10.

n25,d10 R. W. BELCHER, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, NEW YORK, MUNICIPAL BUILDING, NOVEMBER 18, 1914.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from WEDNESDAY, NOVEMBER 18, 1914, TO FRIDAY, DECEMBER 4, 1914, for the position of

SECRETARY TO THE COMMITTEE ON MARKETS, BOARD OF ESTIMATE AND APPOINTMENT.

No applications delivered at the office of the Commission, by mail or otherwise, after 4 P. M., Friday, December 4, 1914, will be accepted. Application blanks will be mailed upon request provided a self-addressed stamped envelope, or four cents in postage stamps, accompany the request, but the Commission will not guarantee the delivery of blanks. Applications forwarded by mail, upon which postage is not fully prepaid, will not be accepted.

Applicants must be citizens of the United States and residents of the State of New York. Its functions will be to formulate a market scheme for the city and to provide for the proper development of the market system. If the Market Commission established by the last legislature is appointed, it will be the medium for the exchange of ideas between the Board of Estimate and Apportionment and that Commission. The duties of the Secretary to this Committee will be to conduct investigations, to formulate and submit the findings resulting from such investigations, and to examine and prepare material for the calendars of this Committee.

Subjects and weights of the examination—Training and experience, 4; Written examination, 4; Oral examination, 2. 70% is required on each subject of the examination.

Applications to be filed on a special blank, Form C, with insert. Experience papers to be given out with applications and to be filed with them. Candidates must obtain at least 70% on training and experience to be permitted to take the physical examination. Those who pass the physical examination will be summoned for the written examination. Candidates must obtain at least 70% on the written examination in order to be summoned for the oral examination.

The written examination will be given on two days. On the first day the examination will be designed to test the knowledge of candidates relative to conditions affecting the establishment of public markets in New York City. On the second day the examination will be designed to test the secretarial qualifications of candidates in the preparation of reports and digests and in the supervision of general office work. The examination will be a practical test on matters that would ordinarily comprise a day's work as secretary.

Candidates must submit evidence of extended experience in the management of markets, or extended experience in the purchase, sale and handling of food stuffs; or of having made an extended practical study of the problems with which this Committee will have to deal.

Minimum age, 21 years. Salary, \$4,000 per annum.

n19,d4 R. W. BELCHER, Secretary.

BOROUGH OF THE BRONX.

Proposals.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF THE BRONX, MUNICIPAL BUILDING, CROTONA PARK, 177TH ST. AND 3D AVE. SEALED BIDS OR ESTIMATES WILL BE RECEIVED BY THE PRESIDENT OF THE BOROUGH OF THE BRONX AT THE ABOVE OFFICE UNTIL 10.30 A. M., ON

WEDNESDAY, DECEMBER 9, 1914.

NO. 1. FOR CONSTRUCTION OF PORTABLE ASPHALT PLANT ON EDGEWATER ROAD, SOUTH OF GARRISON AVENUE. The time allowed for doing and completing the work will be fifty (50) consecutive working days.

The amount of security required will be Three thousand (\$3,000) dollars.

NO. 2. FOR FURNISHING ALL THE LABOR, MATERIAL, APPARATUS AND APPLIANCES NECESSARY TO BUILD AND ERECT A "FOUR BIN" STORAGE POCKET, AUTOMATIC GRAB ON MAST AND GAFF, AUTOMATIC RAILWAY AND HOPPER, SITUATED AT FORT SCHUYLER ROAD AND WESTCHESTER CREEK, BOROUGH OF THE BRONX, CITY OF NEW YORK. The Engineer's estimate of the work is as follows:

90 Cubic Yards Concrete.
3,000 Feet B. M. Lumber.
505 Linear Feet Piles.

Furnishing all labor and materials for construction of Automatic Grab on Mast and Gaff, Automatic railway and hopper.

The time allowed for the full completion of the work will be thirty (30) consecutive working days.

The amount of security required will be Four thousand (\$4,000) dollars.

NO. 3. FOR FURNISHING AND DELIVERING 1½" BROKEN TRAP ROCK STONE AND BROKEN TRAP ROCK SCREENINGS.

The Engineer's estimate of the work is as follows:
1,700 Cubic Yards 1½" Broken Trap Rock Stone.
1,300 Cubic Yards Broken Trap Rock Stone Screenings.

The time allowed for the completion of the contract is on or before December 31, 1914. The amount of security required for the performance of the contract shall be thirty (30) per cent. of the total amount for which the contract is awarded.

NO. 4. FOR FURNISHING AND DELIVERING GRITS.

The Engineer's estimate of the work is as follows:
2,500 Cubic Yards Grits.

The time allowed for the completion of the contract is on or before December 31st, 1914. The amount of security required for the performance of the contract shall be thirty (30) per cent. of the total amount for which the contract is awarded.

NO. 5. FOR FURNISHING AND DELIVERING LONG LEAF YELLOW PINE LUMBER AND SPRUCE LUMBER.

The time allowed for the completion of the contract is on or before December 31st, 1914.

The amount of security required for the performance of the contract shall be thirty (30) per cent. of the total amount for which the contract is awarded.

Blank forms can be obtained upon application therefor, the plans and specifications may be seen and other information obtained at said office.

DOUGLAS MATHEWSON, President.
n27,d9

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

SUPREME COURT—FIRST DEPARTMENT.

Application to Amend Proceedings.

FIRST DEPARTMENT.

In the Matter of the Application of The City of New York, relative to amending its application heretofore made in the Matter of the Application of The City of New York, relative to acquiring title wherever the same has not been heretofore acquired for the same purpose in fee to the lands, tenements and hereditaments required for the opening and extending of HOUGHTON AVENUE, from Bolton Avenue to the Bulkhead Line of Westchester Creek; of QUIMBY AVENUE, from White Plains Road to the Bulkhead Line of Westchester Creek; of STORY AVENUE, from White Plains Road to the Bulkhead Line of Westchester Creek; of HERMANY AVENUE, from White Plains Road to the Bulkhead Line of Westchester Creek, and of TURNBULL AVENUE, from White Plains Road to the Bulkhead Line of Westchester Creek, in the Twenty-fourth Ward, Borough of The Bronx, City of New York, so as to conform to a map or plan adopted by the Board of Estimate and Apportionment May 15, 1914, on which Story Avenue, Hermany Avenue and Turnbull Avenue are discontinued in the block between Zerega Avenue and Westchester Creek; the proceeding as amended providing for the acquisition of title to the Bulkhead Line of Westchester Creek; Quimby Avenue, from White Plains Road to the Bulkhead Line of Westchester Creek; Story Avenue, from White Plains Road to Zerega Avenue; Hermany Avenue, from White Plains Road to Zerega Avenue, and Turnbull Avenue, from White Plains Road to Zerega Avenue, as the aforesaid streets are now laid out upon the map or plan of The City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, First Department, at a Special Term, Part III, thereof, at the County Court-house, in the Borough of Manhattan, in The City of New York, on the 7th day of December, 1914, at the opening of the Court on that day or as soon thereafter as counsel can be heard thereon for an order amending the proceeding entitled "In the Matter of the Application of The City of New York, relative to acquiring title wherever the same has not been heretofore acquired for the same purpose in fee to the lands, tenements and hereditaments required for the opening and extending of Houghton Avenue, from Bolton Avenue to the Bulkhead Line of Westchester Creek; of Quimby Avenue, from White Plains Road to the Bulkhead Line of Westchester Creek; of Story Avenue, from White Plains Road to the Bulkhead Line of Westchester Creek; of Hermany Avenue, from White Plains Road to the Bulkhead Line of Westchester Creek; and of Turnbull Avenue, from White Plains Road to the Bulkhead Line of Westchester Creek, in the Twenty-fourth Ward, Borough of The Bronx, City of New York," and the petition and order appointing Commissioners of Estimate and a Commissioner of Assessment in said proceeding heretofore duly entered and filed in the office of the Clerk of the County of New York on the 7th day of April, 1911, so as to conform to a map or plan adopted by the Board of Estimate and Apportionment May 15, 1914, on which Story Avenue, Hermany Avenue and Turnbull Avenue are discontinued in the block between Zerega Avenue and Westchester Creek; the proceeding as amended providing for the acquisition of title to the Bulkhead Line of Westchester Creek; Quimby Avenue, from White Plains Road to the Bulkhead Line of Westchester Creek; Story Avenue, from White Plains Road to Zerega Avenue; Hermany Avenue, from White Plains Road to Zerega Avenue, and Turnbull Avenue, from White Plains Road to Zerega Avenue, as the aforesaid streets are now laid out upon the map or plan of The City of New York.

Additional land and land not required for Houghton Avenue, from Bolton Avenue to the Bulkhead Line of Westchester Creek; Quimby Avenue, from White Plains Road to the Bulkhead Line of Westchester Creek; that portion of Story Avenue, from White Plains Road to the Bulkhead Line of Westchester Creek; and Turnbull Avenue, from White Plains Road to the Bulkhead Line of Westchester Creek, as amended by resolution of the Board of Estimate and Apportionment June 26, 1914, so as to relate to Houghton Avenue, from Bolton Avenue to the Bulkhead Line of Westchester Creek; Quimby Avenue, from White Plains Road to the Bulkhead Line of Westchester Creek; that portion of Story Avenue, from White Plains Road to Zerega Avenue; Hermany Avenue, from White Plains Road to Zerega Avenue, and Turnbull Avenue, from White Plains Road to Zerega Avenue, in the Borough of The Bronx, City of New York, being the following-described lots, pieces or parcels of land, viz.:

ADDITIONAL LAND REQUIRED—HOUGHTON AVENUE.

Parcel "X." Beginning at a point in the southern line of Houghton Avenue, as being acquired, distant 285.081 feet easterly from the intersection of said line with the eastern line of Zerega Avenue, as legally acquired. Thence easterly and along the prolongation of said southern line of Houghton Avenue for 12.919 feet to the U. S. Pierhead and Bulkhead Line of Westchester Creek. Thence northerly along last-mentioned line for 60.369 feet. Thence westerly deflecting 83° 39' 49" to the left for 6.906 feet to the eastern line of Houghton Avenue as now being acquired. Thence southerly along last-mentioned line for 60.00 feet to the point of beginning.

QUIMBY AVENUE.

Parcel "Y." Beginning at a point in the southern line of Quimby Avenue as being acquired, distant 289.971 feet easterly from the intersection of said line with the eastern line of Zerega Avenue as legally acquired. Thence easterly along the prolongation of said southern line of Quimby Avenue for 37.583 feet to the U. S. Pierhead and Bulkhead Line of Westchester Creek. Thence northerly along the last-mentioned line

for 60.369 feet. Thence westerly deflecting 83° 39' 49" to the left for 33.211 feet to the eastern line of Quimby Avenue as being legally acquired. Thence southerly along the last-mentioned line for 60.04 feet to the point of beginning.

LAND NOT REQUIRED—STORY AVENUE.

Parcel "U."

Beginning at the point of intersection of the northern line of Story Avenue as being acquired, and the western line of Zerega Avenue as legally acquired. Thence southerly along the last-mentioned line for 60.0 feet to the southern line of Story Avenue as being acquired. Thence easterly along last-mentioned line for 395.71 feet. Thence northerly curving to the right on the arc of a circle of 2,808.95 feet radius for 60.54 feet, the radius of said circle drawn north-easterly from the eastern extremity of the preceding course deflects 8° 15' 04" to the left from the prolongation of said course. Thence westerly for 387.66 feet to the point of beginning.

HERMANY AVENUE.

Parcel "V."

Beginning at the point of intersection of the northern line of Hermany Avenue as being acquired and the western line of Zerega Avenue as legally acquired. Thence southerly along last-mentioned line for 60.0 feet to the southern line of Hermany Avenue as being acquired. Thence easterly along last-mentioned line for 447.53 feet. Thence northerly curving to the right on the arc of a circle of 2,808.95 feet radius for 61.62 feet; the radius of said circle drawn north-easterly from the eastern extremity of the preceding course deflects 13° 47' 03" to the left from the prolongation of said course. Thence westerly for 433.50 feet to the point of beginning.

TURNBULL AVENUE.

Parcel "W."

Beginning at the point of intersection of the northern line of Turnbull Avenue as being acquired and the western line of Zerega Avenue as legally acquired. Thence southerly along last-mentioned line for 60.0 feet to the southern line of Turnbull Avenue as being acquired. Thence easterly along last-mentioned line for 514.01 feet. Thence northerly deflecting 104° 01' 50" to the left for 61.84 feet. Thence westerly for 499.01 feet to the point of beginning.

The additional land required for Houghton and Quimby Avenues is shown on a map entitled "Map showing the location of the Pierhead and Bulkhead Lines of Westchester Creek from Fort Schuyler Road to the East River and the adjacent street system hereby amended and adjusted thereto," which map was filed in the office of the President of the Borough of The Bronx on December 17, 1913, in the office of the Register of the County of New York on December 16, 1913, as Map No. 1824, and in the office of the Corporation Counsel of The City of New York on or about the same date.

The land not required for Story, Hermany and Turnbull Avenues is shown on a map entitled "Map showing the discontinuing and closing of Turnbull Avenue, Hermany Avenue and Story Avenue, between Zerega Avenue and Westchester Creek," which map was filed in the office of the President of the Borough of The Bronx on September 14, 1914, in the office of the Register of Bronx County on September 14, 1914, as Map No. 46, and in the office of the Corporation Counsel of The City of New York on or about the same date.

The additional land and land not required for Houghton, Quimby, Story, Hermany and Turnbull Avenues is located east of Bronx River.

The Board of Estimate and Apportionment on the 26th day of June, 1914, duly fixed and determined that the area of assessment for benefit in this amended proceeding be fixed and determined to be as follows:

Beginning at the point on the westerly Bulkhead Line of Westchester Creek where it is intersected by a line midway between Ludlow Avenue and Houghton Avenue, and running thence southerly along the said Bulkhead Line of Westchester Creek to the intersection with the prolongation of a line midway between Turnbull Avenue and Lafayette Avenue as these streets are laid out westerly from Zerega Avenue; thence westwardly along the said line midway between Turnbull Avenue and Lafayette Avenue, and along the prolongations of the said line to a point distant 100 feet westerly from the westerly line of White Plains Road, the said distance being measured at right angles to the line of White Plains Road; thence northwardly and always 100 feet westerly from and parallel with the westerly line of White Plains Road to the intersection with the prolongation of a line midway between Houghton Avenue and Quimby Avenue; thence westwardly along the prolongation of the said line midway between Houghton Avenue and Quimby Avenue to the intersection with a line midway between Bolton Avenue and Underhill Avenue; thence northwardly along the said line midway between Bolton Avenue and Underhill Avenue to the intersection with the prolongation of a line midway between Ludlow Avenue and Houghton Avenue as these streets are laid out at White Plains Road; thence eastwardly along a line always midway between Ludlow Avenue and Houghton Avenue, and along the prolongations of the said line to the point or place of beginning.

Dated, New York, November 24th, 1914.

FRANK L. POLK, Corporation Counsel, Municipal Building, Borough of Manhattan, City of New York.

n24,d5

Filing Preliminary Abstracts.

FIRST DEPARTMENT.

In the Matter of the Application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands and premises required for the opening and extending of LANE AVENUE, between Westchester Avenue and the West Farms Road, with the PUBLIC PLACE, bounded by Lane Avenue, West Farms Road and Westchester Avenue, and of WESTCHESTER AVENUE, between Main Street and West Farms Road, and the Eastern Boulevard at Pelham Bay Park, in the 24th Ward, Borough of The Bronx, City of New York.

NOTICE IS HEREBY GIVEN TO ALL PERSONS interested in the above entitled proceeding, and to the owner or owners, occupant or occupants of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First.—That the undersigned, Commissioners of Estimate, have completed their supplemental and amended estimate of damage and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with them at their office, Room 1557, 15th Floor, Municipal Building, Chambers and Centre Streets, Borough of Manhattan, in The City of New York, on or before the 14th day of December, 1914, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 16th day of December, 1914, at 2 o'clock P. M.

Second.—That the undersigned, Commissioner of Assessment, has completed his estimate of benefit and that all persons interested in this proceeding, or in any the lands, tenements and hereditaments and premises affected thereby,

having any objection thereto, do file their said objections in writing, duly verified, with him at his office, Room 1537, 15th Floor, Municipal Building, Chambers and Centre Streets, in the Borough of Manhattan, in The City of New York, on or before the 14th day of December, 1914, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 17th day of December, 1914, at 2 o'clock P. M.

Third.—That the Commissioner of Assessment has assessed any or all such lands, tenements and hereditaments and premises as are within the area of assessment fixed and prescribed as the amended area of assessment for benefit by the Board of Estimate and Apportionment on the 7th day of May, 1909, and that the said area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of The Bronx, in The City of New York, which taken together, are bounded and described as follows, viz.:

Beginning at a point on a line midway between Parker street and Zerega avenue, where it is intersected by the prolongation of a line midway between Frisby avenue and Glebe avenue, as these streets are laid out northeasterly from Zerega avenue, and running thence northeasterly along the said line midway between Frisby avenue and Glebe avenue, and along the prolongation of the said line to the intersection with a line midway between Zerega avenue and Rowland street; thence northwesterly along the said line midway between Zerega avenue and Rowland street to the intersection with a line midway between Glebe avenue and St. Raymond avenue, as these streets are laid out between Zerega avenue and Rowland street; thence northeasterly along the said line midway between Glebe avenue and St. Raymond avenue, and along the prolongation of the said line to the intersection with a line midway between Overing street and Benson avenue; thence northwesterly along the said line midway between Overing street and Benson avenue to a point distant 100 feet southeasterly from the southeasterly line of St. Raymond avenue; thence northeasterly and always distant 100 feet southeasterly from the southeasterly line of St. Raymond avenue and the prolongation thereof to the intersection with a line midway between Brockett avenue and Halperin avenue; thence northeasterly along the said line midway between Brockett avenue and Halperin avenue to a point distant 100 feet northeasterly from the northeasterly line of Blondell avenue; thence southeasterly and always distant 100 feet northeasterly from the northeasterly line of Blondell avenue to a point distant 600 feet northwesterly from the northeasterly line of Westchester avenue, the said distance being measured at right angles to the line of Westchester avenue; thence northeasterly, northwesterly and northeasterly, northwesterly and northeasterly, westerly and northwesterly from the northeasterly, westerly and northwesterly lines of Westchester avenue and the prolongation thereof to a point distant 600 feet easterly from the westerly line of Pelham Bay park, the said distance being measured at right angles to the line of Pelham Bay park; thence southwesterly along a line parallel with the westerly line of Pelham Bay park as laid out immediately northwest of Westchester avenue, and along the prolongation of the said line to the intersection with the prolongation of the northwesterly line of Morris Park avenue as laid out east of Westchester avenue; thence southwesterly along the said prolongation of the northwesterly line of Morris Park avenue to a point distant 250 feet easterly from the westerly line of Pelham Bay park, the said distance being measured at right angles to the line of Pelham Bay park; thence southwesterly and always distant 250 feet easterly from the westerly line of Pelham Bay park to the intersection with the prolongation of a line midway between Buhr avenue and Roberts avenue, as these streets are laid out adjoining the Eastern boulevard; thence southwesterly along the said line midway between Buhr avenue and Roberts avenue and along the prolongation of the said line, to the intersection with a line midway between Jarvis avenue and Mahan avenue; thence southwesterly along the said line midway between Jarvis avenue and Mahan avenue to a point distant 100 feet southeasterly from the southeasterly line of Roberts avenue; thence southwesterly along a line parallel with Roberts avenue as laid out between Crosby avenue and the Eastern boulevard, and along the prolongation of the said line, to a point distant 600 feet southeasterly from the southeasterly line of Westchester avenue, the said distance being measured at right angles to the line of Westchester avenue; thence southwesterly and always distant 600 feet southeasterly from the southeasterly line of Westchester avenue to the intersection with the prolongation of a line midway between Parker street and Zerega avenue, as these streets are laid out adjoining Westchester avenue; thence northwesterly along the said line midway between Parker street and Zerega avenue, and along the prolongation of the said line to the point or place of beginning.

Fourth.—That the abstracts of said supplemental and amended estimate of damage and of said assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, Room 1529, 15th Floor, Municipal Building, Chambers and Centre streets, in the Borough of Manhattan, in said City, there to remain until the 14th day of December, 1914.

Fifth.—That, provided there be no objections filed to either of said abstracts, the reports as to awards and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part III, to be held in the County Court House in the Borough of Manhattan, in The City of New York, on the 18th day of February, 1915, at the opening of the Court on that day.

Sixth.—In case, however, objections are filed to the foregoing abstracts of estimate and assessment, or to either of them the motion to confirm the reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to Sections 981 and 984 of the Greater New York Charter, as amended by Chapter 658 of the Laws of 1906.

Dated, New York, November 18th, 1914.
FLOYD M. LORD, JOHN J. MACKIN, EDWARD D. DOWLING, Commissioners of Estimate and Assessment.
JOEL J. SQUIER, Clerk. n24,d11

SUPREME COURT—SECOND DEPARTMENT.

Application to Amend Proceedings.

SECOND DEPARTMENT.

In the Matter of the Application of The City of New York, relative to amending its application heretofore made in the Matter of the

Application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose to the lands, tenements and hereditaments required for an easement for sewer purposes in a parcel of land having a width ranging from 20 to 50 feet located in KISSEL AVENUE and Brighton Boulevard (Kissel Avenue) and in Brighton Boulevard (Kissel Avenue) extended, between Castleton Avenue and the Pier and Bulkhead Line, in the First Ward, Borough of Richmond, The City of New York, which land is shown on a map bearing the signature of the President of the Borough, dated July 3, 1912, and adopted by the Board of Estimate and Apportionment on December 12, 1912, so as to provide for the acquisition of the easement rights contemplated in Kissel Avenue and in Brighton Boulevard, from Henderson Avenue to Richmond Terrace, and along the prolongation of Brighton Boulevard from Richmond Terrace to the Bulkhead Line; and also the easement rights in the area included in a map adopted by the Board of Estimate and Apportionment on July 2, 1914, entitled "Map showing lands in which it is necessary to acquire an easement for the purpose of a sewer in Kissel Avenue from Henderson Avenue to Castleton Avenue, in the First Ward, Borough of Richmond, signed by the President of the Borough and dated May 18, 1914."

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, Second Department, at a Special Term of said Court, to be held for the hearing of motions, in the County Court House, in the Borough of Brooklyn, in The City of New York, on the 14th day of December, 1914, at the opening of Court on that day or as soon thereafter as counsel can be heard thereon, for an order amending the proceeding entitled "In the Matter of the Application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose, to the lands, tenements and hereditaments required for an easement for sewer purposes in a parcel of land having a width ranging from 20 to 50 feet, located in Kissel Avenue and Brighton Boulevard (Kissel Avenue) and in Brighton Boulevard (Kissel Avenue) extended, between Castleton Avenue and the Pier and Bulkhead Line, in the First Ward, Borough of Richmond, The City of New York, which land is shown on a map bearing the signature of the President of the Borough, dated July 3, 1912, and adopted by the Board of Estimate and Apportionment on December 12, 1912," and the petition and order appointing Commissioners of Estimate and Assessment in said proceeding heretofore duly entered and filed in the office of the Clerk of the County of Richmond on July 24, 1913, so as to provide for the acquisition of the easement rights contemplated in Kissel Avenue and in Brighton Boulevard from Henderson Avenue to Richmond Terrace, and along the prolongation of Brighton Boulevard from Richmond Terrace to the Bulkhead Line; and also the easement rights in the area included in a map adopted by the Board of Estimate and Apportionment on July 2, 1914, entitled "Map showing lands in which it is necessary to acquire an easement for the purpose of a sewer in Kissel Avenue from Henderson Avenue to Castleton Avenue, in the First Ward, Borough of Richmond, signed by the President of the Borough and dated May 18, 1914."

Technical description of lands in which it is necessary to acquire an easement for the purpose of a sewer in Kissel Avenue, from Henderson Avenue to Castleton Avenue, which is affected by the amendment.

Beginning on the southerly line of Henderson Avenue 36.67 feet westerly from the southeast corner of Henderson Avenue and Kissel Avenue as shown on the map or plan of The City of New York. Thence southerly deflecting 99° 31' 49" to the right from the southerly line of Henderson Avenue as it extends eastward 352.88 feet. Thence southerly deflecting 1° 4' 27" to the left 1,152.04 feet to the northerly line of Castleton Avenue. Thence deflecting 100° 14' 47" to the right along the northerly line of Castleton Avenue 5.08 feet to an angle point in the northerly line of Castleton Avenue. Thence westerly deflecting to the left 2° 45' 36" along the northerly line of Castleton Avenue 5.04 feet. Thence northerly parallel to course two and 10 feet westerly therefrom 1,150.57 feet. Thence northerly parallel to course one and 10 feet distant therefrom 352.85 feet to the southerly line of Henderson Avenue. Thence easterly deflecting 89° 17' 27" to the right along the southerly line of Henderson Avenue 10.00 feet to the point of beginning.

Lands in which it is necessary to acquire an easement for the purpose of a sewer in Kissel Avenue, from Henderson Avenue to Castleton Avenue, to which the above description conforms is shown on a map or plan entitled "Map showing lands in which it is necessary to acquire an easement for the purpose of a sewer in Kissel Avenue, from Henderson Avenue to Castleton Avenue, in the First Ward, Borough of Richmond," signed by the President of the Borough and dated May 18, 1914, approved by the Board of Estimate and Apportionment on July 2, 1914, and filed in the office of the Corporation Counsel of The City of New York on October 17, 1914, and in the office of the President of the Borough of Richmond and in the office of the Clerk of the County of Richmond on or about the same date.

The Board of Estimate and Apportionment on the 30th day of July, 1914, duly fixed and determined that the area of assessment for benefit in this amended proceeding be fixed and determined to be as follows:

Beginning at a point on the southerly bulkhead line of Kill Van Kull where it is intersected by the prolongation of a line distant 100 feet easterly from and parallel with the easterly line of Brighton Boulevard, as this street is laid out where it adjoins Richmond Terrace, the said distance being measured at right angles to Brighton Boulevard, and running thence southwesterly along the said line parallel with Brighton Boulevard and along the prolongation of the said line to a point opposite the junction of Kissel Avenue and Brighton Boulevard; thence easterly at right angles to the course last described to the intersection with a line passing through a point on the northerly line of Henderson Avenue distant 280 feet easterly from its intersection with the easterly line of Kissel Avenue, as this street is laid out north of Henderson Avenue, the said distance being measured along the line of Henderson Avenue, and a point on the southerly line of Castleton Avenue distant 270 feet easterly from its intersection with the easterly line of Kissel Avenue, as this street meets Castleton Avenue on the south; the said distance being measured along the line of Castleton Avenue; thence southwesterly along the course last described to a point distant 100 feet northerly from the northerly line of Castleton Avenue, the said distance being measured at right angles to Castleton Avenue; thence easterly and always distant 100 feet northerly from and parallel with the northerly line of Castleton Avenue to the intersection with the prolongation of a line distant 100 feet easterly from and parallel with the easterly line of Havenwood Road, the said distance being measured at right angles to Havenwood Road; thence southwesterly along the

said line parallel with Havenwood Road and along the prolongation of the said line to the intersection with a line distant 100 feet northerly from and parallel with the northerly line of Frelinghuysen Road, as this street adjoins the Esplanade on the west, the said distance being measured at right angles to Frelinghuysen Road; thence easterly along the said line parallel with Frelinghuysen Road and along the prolongation of the said line to the intersection with the centre line of Haven Esplanade; thence southwesterly along the centre line of Haven Esplanade to the intersection with the southerly line of Barrett Boulevard; thence westerly along the southerly line of Barrett Boulevard and of Brighton Avenue to the intersection with the easterly line of Greenwood Avenue; thence southwesterly along the easterly line of Greenwood Avenue, a distance of 591.59 feet; thence westerly at right angles to Greenwood Avenue to the intersection with the easterly line of University Place; thence southwesterly along the easterly line of University Place to the intersection with the southerly line of Laurel Avenue; thence westerly along the southerly line of Laurel Avenue to the intersection with the easterly line of Lakewood Road; thence southwesterly along the easterly line of Lakewood Road and the prolongation thereof, a distance of 760 feet; thence westerly at right angles to Lakewood Road, a distance of 350 feet; thence southwesterly in a straight line to a point on the easterly line of Bard Avenue distant 2,360 feet southerly from the southerly line of Forest Avenue, the said distance being measured along the line of Bard Avenue; thence westerly at right angles to Bard Avenue to a point distant 100 feet westerly from its westerly side; thence northwesterly and always distant 100 feet westerly from and parallel with the westerly line of Bard Avenue to a point distant 100 feet northerly from the northerly line of Castleton Avenue, the said distance being measured at right angles to Castleton Avenue; thence easterly and always distant 100 feet northerly from and parallel with the northerly line of Castleton Avenue to a point distant 320 feet easterly from the easterly line of Bard Avenue, the said distance being measured at right angles to Bard Avenue; thence northwesterly and always distant 320 feet easterly from and parallel with the easterly line of Bard Avenue to the intersection with the centre line of Henderson Avenue; thence easterly along the centre line of Henderson Avenue to the intersection with the prolongation of a line distant 100 feet westerly from and parallel with the westerly line of Kissel Avenue as this street is laid out north of Henderson Avenue, the said distance being measured at right angles to Kissel Avenue; thence northwesterly along the said line parallel with Kissel Avenue and along the prolongation of the said line to a point distant 350 feet northerly from the northerly line of Henderson Avenue, the said distance being measured at right angles to Henderson Avenue; thence westerly at right angles to Kissel Avenue to a point distant 160 feet easterly from the easterly line of Bard Avenue, the said distance being measured at right angles to Bard Avenue; thence northwesterly and always distant 160 feet easterly from and parallel with the easterly line of Bard Avenue and the prolongation thereof to the intersection with the southerly bulkhead line of Kill Van Kull; thence easterly along the said bulkhead line to the point or place of beginning.

Dated, New York, December 2nd, 1914.
FRANK J. POLK, Corporation Counsel,
Municipal Building, Borough of Manhattan, City of New York. d2,12

Filing Preliminary Abstracts.

SECOND DEPARTMENT.

In the Matter of the Application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of THE PUBLIC PLACE bounded by Meeker Avenue, Monitor Street and Engert Avenue, in the 17th Ward, Borough of Brooklyn, The City of New York.

NOTICE IS HEREBY GIVEN TO ALL PERSONS interested in the above-entitled proceeding, and to the owner or owners, occupant or occupants of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First.—That the undersigned, Commissioners of Estimate and Assessment, have completed their estimate of damage and of said assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by us in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, in the Municipal Building, Court House Square, Long Island City, in the Borough of Queens, in said City, there to remain until the 17th day of December, 1914.

Second.—That the limits of our assessment for benefit as amended include all those lands, tenements and hereditaments and premises situate, being and being in the Borough of Queens, in The City of New York, which taken together, are bounded and described as follows, viz.:

AREA NO. 1: Beginning at a point formed by the intersection of the centre line of the block between Cassel Avenue and Halle Avenue with a line 100 feet easterly of the easterly line of old Berlin Avenue; running thence westerly along the centre line of the blocks between Cassel Avenue and Halle Avenue to an intersection with a line 100 feet easterly of the easterly line of Montgomery Avenue; running thence southerly parallel with Montgomery Avenue to an intersection with the northerly line of Hull Avenue; running thence westerly along the northerly line of Hull Avenue and prolongation of same to a point distant 100 feet from and measured perpendicularly to the westerly line of Hobson Avenue; running thence northerly parallel with Hobson Avenue to the southerly line of Joy Avenue; running thence easterly along the southerly line of Joy Avenue to a point 100 feet easterly from the easterly line of Montgomery Avenue; running thence southerly parallel with Montgomery Avenue to a point distant 100 feet northerly from the northerly line of Cassel Avenue; running thence easterly along the centre line of the blocks between Cassel Avenue and Columbine Avenue to an intersection with a line 100 feet easterly from and parallel with the easterly line of Old Berlin Avenue; and running thence southerly to the point or place of beginning.

AREA NO. 2: Beginning at a point on the centre line of the block between Cassel Avenue and Halle Avenue, where the same is intersected by a line 100 feet westerly from and parallel with the westerly line of Broad Street; thence running northerly along said line to an intersection of the same with a line midway between Cassel Avenue and Columbine Avenue; running thence easterly along the centre line of the blocks between Cassel Avenue and Columbine Avenue to an intersection with the northerly line of Joy Avenue; running thence along a line perpendicular to Joy Avenue to a point distant 100 feet from the southeasterly side of Joy Avenue; running thence southwesterly along a line 100 feet from and parallel with the southeasterly line of Joy Avenue to an intersection with a line perpendicular to Joy Avenue which intersects the westerly line of Willow Avenue at a point midway between Halle Avenue and Cassel Avenue; running thence northwesterly along said mentioned perpendicular line of Joy Avenue to the westerly line of Willow Avenue; and running thence along the centre line of the blocks between Cassel Avenue and Halle Avenue to the point or place of beginning.

Fourth.—That, providing there be no objections filed to either of said supplemental and amended abstracts, our final report herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof, for the hearing of motions, to be held in the County Court House in the Borough of Brooklyn, in The City of New York, on the 18th day of February, 1915, at the opening of the Court on that day.

Sixth.—In case, however, objections are filed to the foregoing abstracts of estimate and assessment, or to either of them the motion to confirm the reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to Sections 981 and 984 of the Greater New York Charter, as amended by Chapter 658 of the Laws of 1906.

Dated, New York, November 18th, 1914.
FLOYD M. LORD, JOHN J. MACKIN, EDWARD D. DOWLING, Commissioners of Estimate and Assessment.
JOEL J. SQUIER, Clerk. n24,d11

will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof, to be held in the County Court House in the Borough of Brooklyn, in The City of New York, on the 28th day of January, 1915, at the opening of the Court on that day.

Sixth.—In case, however, objections are filed to the foregoing abstracts of estimate and assessment, or to either of them, the motion to confirm the reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to Sections 981 and 984 of the Greater New York Charter, as amended by Chapter 658 of the Laws of 1906.

Dated, New York, November 28th, 1914.
CLARENCE W. DONOVAN, THOS. O'NEILL, DANIEL M. HURLEY, Commissioners of Estimate; CLARENCE W. DONOVAN, Commissioner of Assessment.
MELVILLE J. FRANCE, Clerk. n28,d15

SECOND DEPARTMENT.

In the Matter of the Application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to the lands, tenements and hereditaments required for the opening and extending of CASSEL AVENUE (although not yet named by proper authority), from Washington Avenue to Jay Avenue, in the Second Ward, Borough of Queens, City of New York, as amended by an order of the Supreme Court, Second Department, dated the 30th day of September, 1910, and entered in the office of the Clerk of the County of New York on the 4th day of October, 1910, so as to conform to the lines of said street, as shown upon Section 2 of the final maps of the Borough of Queens, as adopted by the Board of Estimate and Apportionment on the 19th day of June, 1908, and approved by the Mayor on the 5th day of August, 1908, and as shown upon Section 17 of the final maps of the Borough of Queens, as adopted by the Board of Estimate and Apportionment on the 26th day of June, 1908, and approved by the Mayor on the 5th day of August, 1908, and as further amended and corrected by an order of the Supreme Court, Second Department, dated the 2nd day of October, 1913, and entered in the office of the Clerk of the County of Queens on the 7th day of October, 1913, so as to relate to Cassel Avenue, from Hobson (Washington) Avenue to Old Berlin Avenue and from Broad Street to Jay Avenue, and from the land to be excluded from this proceeding is more particularly shown upon a map attached to the aforesaid order.

WE, THE UNDERSIGNED, COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding, and to the owner or owners, occupant or occupants of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First.—That we have completed our supplemental and amended estimate and assessment, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, in the Municipal Building, Court House Square, Long Island City, in the Borough of Queens, in The City of New York, on or before the 15th day of December, 1914, and that we, the said Commissioners, will hear parties so objecting, and for that purpose will be in attendance at our said office on the 17th day of December, 1914, at 2:30 o'clock P. M.

Second.—That the abstracts of our said supplemental and amended estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by us in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, in the Municipal Building, Court House Square, Long Island City, in the Borough of Queens, in said City, there to remain until the 17th day of December, 1914.

Third.—That the limits of our assessment for benefit as amended include all those lands, tenements and hereditaments and premises situate, being and being in the Borough of Queens, in The City of New York, which taken together, are bounded and described as follows, viz.:

AREA NO. 1: Beginning at a point formed by the intersection of the centre line of the block between Cassel Avenue and Halle Avenue with a line 100 feet easterly of the easterly line of old Berlin Avenue; running thence westerly along the centre line of the blocks between Cassel Avenue and Halle Avenue to an intersection with a line 100 feet easterly of the easterly line of Montgomery Avenue; running thence southerly parallel with Montgomery Avenue to an intersection with the northerly line of Hull Avenue; running thence westerly along the northerly line of Hull Avenue and prolongation of same to a point distant 100 feet from and measured perpendicularly to the westerly line of Hobson Avenue; running thence northerly parallel with Hobson Avenue to the southerly line of Joy Avenue; running thence easterly along the southerly line of Joy Avenue to a point 100 feet easterly from the easterly line of Montgomery Avenue; running thence southerly parallel with Montgomery Avenue to a point distant 100 feet northerly from the northerly line of Cassel Avenue; running thence easterly along the centre line of the blocks between Cassel Avenue and Columbine Avenue to an intersection with a line 100 feet easterly from and parallel with the easterly line of Old Berlin Avenue; and running thence southerly to the point or place of beginning.

AREA NO. 2: Beginning at a point on the centre line of the block between Cassel Avenue and Halle Avenue, where the same is intersected by a line 100 feet westerly from and parallel with the westerly line of Broad Street; thence running northerly along said line to an intersection of the same with a line midway between Cassel Avenue and Columbine Avenue; running thence easterly along the centre line of the blocks between Cassel Avenue and Columbine Avenue to an intersection with the northerly line of Joy Avenue; running thence along a line perpendicular to Joy Avenue to a point distant 100 feet from the southeasterly side of Joy Avenue; running thence southwesterly along a line 100 feet from and parallel with the southeasterly line of Joy Avenue to an intersection with a line perpendicular to Joy Avenue which intersects the westerly line of Willow Avenue at a point midway between Halle Avenue and Cassel Avenue; running thence northwesterly along said mentioned perpendicular line of Joy Avenue to the westerly line of Willow Avenue; and running thence along the centre line of the blocks between Cassel Avenue and Halle Avenue to the point or place of beginning.

Fourth.—That, providing there be no objections filed to either of said supplemental and amended abstracts, our final report herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof, for the hearing of motions, to be held in the County Court House in the Borough of Brooklyn, in The City of New York, on the 18th day of February, 1915, at the opening of the Court on that day.

York, on the 22nd day of January, 1915, at the opening of the Court on that day.

Fifth—In case, however, objections are filed to either of said supplemental and amended abstracts of estimate and assessment, the notice of motion to confirm our final report herein will stand adjourned to the date to be hereafter specified, and of which notice will be given to all those who have theretofore appeared in this proceeding, as well as by publication in the City Record, pursuant to Sections 981 and 984 of the Greater New York Charter, as amended by Chapter 658 of the Laws of 1906.

Dated, New York, November 20th, 1914.
MORRIS L. STRAUSS, Chairman; JACOB N. IMANDT, EUGENE N. L. YOUNG, Commissioners.
WALTER C. SHEPPARD, Clerk. n25,d12

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of WEST 28TH STREET, from Neptune Avenue to Surf Avenue; WEST 29TH STREET, from Neptune Avenue to Surf Avenue; WEST 30TH STREET, from Neptune Avenue to the mean high water line of the Atlantic Ocean; WEST 31ST STREET, from Neptune Avenue to Surf Avenue, excluding in each case the right-of-way of the New York and Coney Island Railroad, in the 31st Ward, Borough of Brooklyn, The City of New York.

NOTICE IS HEREBY GIVEN TO ALL PERSONS interested in the above-entitled proceeding, and to the owner or owners, occupant or occupants, of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That the undersigned, Commissioners of Estimate, have completed their estimate of damage, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with them at their office, No. 166 Montague Street, in the Borough of Brooklyn, in The City of New York, on or before the 10th day of December, 1914, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 11th day of December, 1914, at 11 o'clock A. M.

Second—That the undersigned, Commissioner of Assessment, has completed his estimate of benefit and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with him at his office, No. 166 Montague Street, in the Borough of Brooklyn, in The City of New York, on or before the 10th day of December, 1914, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 15th day of December, 1914, at 11 o'clock A. M.

Third—That the Commissioner of Assessments has assessed any or all of such lands, tenements and hereditaments and premises as are within the area of assessment fixed and prescribed as the area of assessment for benefit by the Board of Estimate and Apportionment on the 6th day of July, 1911, and that the said area of assessment includes all those lands, tenements and hereditaments and premises situated and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

BEGINNING at a point on a line midway between West 27th street and West 28th street distant 100 feet northerly from the northerly line of Neptune Avenue, and running thence southwardly along the said line midway between West 27th street and West 28th street, and along the prolongation of the said line to a point distant 100 feet southerly from the southerly line of Surf Avenue, the said distance being measured at right angles to Surf Avenue; thence westwardly and always distant 100 feet southerly from and parallel with the southerly line of Surf Avenue to the intersection with a line midway between West 28th street and West 30th street; thence southwardly along the said line midway between West 28th street and West 30th street to the intersection with the mean high water line of the Atlantic Ocean; thence westwardly along the said mean high water line to the intersection with a line midway between West 30th street and West 32d street; thence northwardly along the said line midway between West 30th street and West 32d street to a point distant 100 feet southerly from the southerly line of Surf Avenue, the said distance being measured at right angles to Surf Avenue; thence westwardly and always distant 100 feet southerly from and parallel with the southerly line of Surf Avenue to the intersection with the prolongation of a line midway between West 31st street and West 32d street; thence northwardly along the said line midway between West 31st street and West 32d street and along the prolongation of the said line to a point distant 100 feet northerly from the northerly line of Neptune Avenue; thence eastwardly and parallel with Neptune Avenue to the point or place of beginning.

Fourth—That the abstracts of said estimate of damage and of said assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, No. 166 Montague Street, in the Borough of Brooklyn, in said City, there to remain until the 21st day of December, 1914.

Fifth—That, provided there be no objections filed to either of said abstracts, the reports as to awards and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof, to be held in the County Court House, in the Borough of Brooklyn, in The City of New York, on the 13th day of January, 1915, at the opening of the Court on that day.

Sixth—In case, however, objections are filed to the foregoing abstracts of estimate and assessment, or to either of them, the motion to confirm the reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to Sections 981 and 984 of the Greater New York Charter, as amended by Chapter 658 of the Laws of 1906.

Dated, New York, November 20th, 1914.
HENRY P. VELTE, J. CORNELL SCHENCK, SOLON BARBANELL, Commissioners of Estimate; J. CORNELL SCHENCK, Commissioner of Assessment.
MELVILLE J. FRANCE, Clerk. n20,d8

SECOND DEPARTMENT.

In the Matter of the Application of The City of New York, relative to acquiring title wherever the same has not been heretofore acquired for

the same purpose in fee to the lands, tenements and hereditaments required for the opening and extending of WEST 11TH STREET, from Bay Parkway to Canal Avenue North, excluding the right-of-way of the New York and Sea Beach Railroad; and WEST 12TH STREET, from Bay Parkway to Kings Highway, and from Avenue T to Avenue W, in the 31st Ward, Borough of Brooklyn, The City of New York.

NOTICE IS HEREBY GIVEN TO ALL PERSONS interested in the above-entitled proceeding, and to the owner or owners, occupant or occupants of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That the undersigned, Commissioners of Estimate, have completed their estimate of damage, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with them at their office, No. 166 Montague Street, in the Borough of Brooklyn, in The City of New York, on or before the 9th day of December, 1914, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 10th day of December, 1914, at 3:30 o'clock P. M.

Second—That the undersigned, Commissioner of Assessment, has completed his estimate of benefit and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with him at his office, No. 166 Montague Street, in the Borough of Brooklyn, in The City of New York, on or before the 9th day of December, 1914, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 11th day of December, 1914, at 3:30 o'clock P. M.

Third—That the Commissioner of Assessment has assessed any or all of such lands, tenements and hereditaments and premises as are within the area of assessment fixed and prescribed as the area of assessment for benefit by the Board of Estimate and Apportionment on the 6th day of July, 1911, and that the said area of assessment includes all those lands, tenements and hereditaments and premises situated and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

BEGINNING at a point on the southeasterly line of Bay Parkway midway between West 10th street and West 11th street, and running thence southwardly along a line midway between West 10th street and West 11th street and along the prolongation of the said line to a point distant 100 feet southerly from the southerly line of Canal Avenue North; thence westwardly and parallel with Canal Avenue North to the intersection with the prolongation of a line midway between West 11th street and West 12th street; thence northwardly along the said line midway between West 11th street and West 12th street and along the prolongation of the said line to a point distant 100 feet southerly from the southerly line of Avenue W; thence westwardly and parallel with Avenue W to the intersection with a line midway between West 12th street and West 13th street; thence northwardly along the said line midway between West 12th street and West 13th street to a point distant 100 feet northerly from the northerly line of Avenue T; thence eastwardly and parallel with Avenue T to the intersection with a line midway between West 11th street and West 12th street; thence northwardly along the said line midway between West 11th street and West 12th street to a point distant 100 feet southerly from the southerly line of Kings Highway, the said distance being measured at right angles to Kings Highway; thence westwardly and always distant 100 feet southerly from and parallel with the southerly line of Kings Highway to the intersection with a line midway between West 12th street and West 13th street; thence northwardly along the said line midway between West 12th street and West 13th street to the intersection with the southeasterly line of Bay Parkway; thence northwardly along the said line midway between West 13th street and West 14th street and along the prolongation of the said line to a point distant 100 feet southerly from the southerly line of Kings Highway, the said distance being measured at right angles to Kings Highway; thence westwardly and always distant 100 feet southerly from and parallel with the southerly line of Kings Highway to the intersection with a line midway between West 12th street and West 13th street; thence northwardly along the said line midway between West 12th street and West 13th street to the intersection with the southeasterly line of Bay Parkway to the point or place of beginning.

Fourth—That the abstracts of said estimate of damage and of said assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, No. 166 Montague Street, in the Borough of Brooklyn, in said City, there to remain until the 19th day of December, 1914.

Fifth—That, provided there be no objections filed to either of said abstracts, the reports as to awards and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof, to be held in the County Court House in the Borough of Brooklyn, in The City of New York, on the 13th day of January, 1915, at the opening of the Court on that day.

Sixth—In case, however, objections are filed to the foregoing abstracts of estimate and assessment, or to either of them, the motion to confirm the reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to Sections 981 and 984 of the Greater New York Charter, as amended by Chapter 658 of the Laws of 1906.

Dated, New York, November 19th, 1914.
EDMUND D. HENNESSY, WILLIAM H. TAYLOR, JOHN W. DEVOY, Commissioners of Estimate; EDMUND D. HENNESSY, Commissioner of Assessment.
MELVILLE J. FRANCE, Clerk. n19,d7

Filing Bill of Costs.

SECOND DEPARTMENT.

In the Matter of the Application of The City of New York, relative to acquiring title in fee wherever the same has not been heretofore acquired, to the lands, tenements and hereditaments required for the opening and extending of WEST 19TH STREET, from Neptune Avenue to Surf Avenue; and WEST 20TH STREET, from Neptune Avenue to Surf Avenue, excluding in each case the right-of-way of the New York and Coney Island Railroad, in the 31st Ward, Borough of Brooklyn, 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 of the State of New York, Second Department, at a Special Term thereof, to be held at the County Court House in the Borough of Brooklyn, in The City of New York, on the 17th day of December, 1914, at 10:00 o'clock in the fore-

noon of that day, or as soon thereafter as Counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Clerk of the County of Kings, there to remain for and during the space of ten days, as required by law.

Dated, New York, December 4th, 1914.
JNO. F. COFFIN, MIRABEAU C. TOWNS, DANIEL McCLEARY, Commissioners of Estimate; JNO. F. COFFIN, Commissioner of Assessment.
MELVILLE J. FRANCE, Clerk. d4,15

SECOND DEPARTMENT.

In the Matter of the Application of The City of New York, relative to acquiring title wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of YOUNG STREET, from Hunters Point Avenue to Review Avenue, in the 1st Ward, Borough of Queens, City of New York.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter will be presented for taxation to one of the Justices of the Supreme Court of the State of New York, Second Department, at a Special Term thereof, Part I, to be held at the Queens County Court House, Long Island City, in the Borough of Queens, in The City of New York, on the 18th day of December, 1914, 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 County of Queens, there to remain for and during the space of ten days, as required by law.

Dated, New York, December 4th, 1914.
R. W. KELLOGG, FREDERICK W. DUNTON, J. H. LEONARD, Commissioners of Estimate; R. W. KELLOGG, Commissioner of Assessment.
WALTER C. SHEPPARD, Clerk. d4,15

SECOND DEPARTMENT.

In the Matter of the Application of The City of New York, relative to acquiring title in fee wherever the same has not been heretofore acquired, to the lands, tenements and hereditaments required for the opening and extending of BELMONT AVENUE, from Pennsylvania Avenue to Wyona Street, and from Elderts Lane to the Old City Line, in the 26th Ward, Borough of Brooklyn, 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 of the State of New York, Second Department, at a Special Term thereof, to be held at the County Court House in the Borough of Brooklyn, in The City of New York, on the 11th day of December, 1914, at 10:00 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 County of Kings, there to remain for and during the space of ten days, as required by law.

Dated, November 28th, 1914.
WILLIAM M. RUSSELL, WALTER J. MCGILL, JOHN J. KILCOURSE, Commissioners of Estimate; WILLIAM M. RUSSELL, Commissioner of Assessment.
MELVILLE J. FRANCE, Clerk. n28,d9

NOTICE TO BIDDERS AT SALES OF OLD BUILDINGS, ETC.

TERMS AND CONDITIONS UNDER WHICH BUILDINGS, ETC., WILL BE SOLD FOR REMOVAL FROM CITY PROPERTY.

THE BUILDINGS AND APPURTENANCES thereto will be sold to the highest bidder, who must pay cash or certified check, drawn to the order of the Comptroller of The City of New York, and must also give a certified check or cash in half the amount of the purchase price as security for the faithful performance of the terms and conditions of the sale. Where the amount of the purchase price does not exceed the sum of \$50, the sum of \$50 shall be the amount of the security to be deposited. This security may at any time after the expiration of the contract period be applied by the City to the cost of completing any of the work required under the contract, but unfinished at the expiration of the contract period.

The purchaser shall not lease, occupy, cause or permit the building or buildings, etc., purchased by him to be used or occupied for any purpose other than that of their speedy removal, nor shall he collect any rental or other revenue for the use of either the land or the buildings, etc., situated thereon. The breach of either or any of these conditions shall forthwith void the sale and cause immediate forfeiture of the purchase money and the security deposited for the faithful performance of the conditions of the sale. The placing therein or permitting the occupancy of any such building by any tenant free, for rent or otherwise, excepting the necessary watchmen or the workmen engaged in the actual demolition thereof, shall of itself be a breach of the above conditions of sale.

The sale will be as of the condition of the property on date of delivery thereof to the purchaser. The City of New York will not be responsible for any change or loss which may occur in the condition of the buildings, or their appurtenances between the time of the sale thereof and the time of delivering possession to the purchaser, after being properly vacated of all tenants. The sale and delivery to purchaser will be made as nearly together as the circumstances of vacating the structures of their tenants will permit.

All the material of the buildings, sheds, walks, structures and cellars of whatsoever nature, with their exterior and interior fixtures, appurtenances and foundations of all kinds, except the exterior walls of the buildings and their foundations and the sidewalks and curb in front of said buildings, extending within the described area shall be torn down and removed from the premises. None of the dirt, debris or waste resulting from demolition shall be allowed to remain on the premises, except old mortar or plaster only, which may be left, but not higher at any point than two feet below the curb opposite that point. The exterior walls and their foundations shall be taken down only to a plane whose elevation shall be the level of the curb in front of the building. Where there is no curb the elevation of the surrounding ground shall be considered curb level. All wells, cesspools, sinks, etc., existing on the property must be filled to the level of the surrounding ground with clean earth.

The purchaser at the sale shall also withdraw and remove all abandoned water taps and old service mains, and in place thereof cause to be inserted a brass plug in the main water pipe in the street, in compliance with the rules and regulations of the Department of Water Supply, Gas and Electricity, and furnish the Department of Finance with a certificate from the Department of Water Supply, Gas and Electricity that this has been performed.

The purchaser at the sale shall also remove all house sewer connections to the main sewer in

the street and the openings of the main sewer in street shall be properly closed in compliance with the directions of the Bureau of Sewers in the Borough in which the buildings are situated, and furnish the Department of Finance with a certificate from the Bureau of Sewers that the work has been properly performed.

The permit for all opening in the street to be obtained by and at the expense of the purchaser of the building.

Failure to remove said buildings, appurtenances, or any part thereof, within thirty days from the day of possession will work forfeiture of ownership of such buildings, appurtenances, or portion as shall then be left standing, together with all money paid by said purchaser on account thereof at the time of the sale, and the bidder's assent to the above conditions being understood to be implied by the act of bidding, and The City of New York will, without notice to the purchaser, cause the same to be removed, and the cost and expense thereof charged against the security above mentioned.

The work of removal must be carried on in every respect in a thorough and workmanlike manner, and must be completed within thirty days from the day of possession, and the successful bidder will provide and furnish all materials of labor and machinery necessary, thereto, and will place proper and sufficient guards and fences and warning signs by day and night for the prevention of accidents, and will indemnify and save harmless The City of New York, its officers, agents and servants, and each of them, against any and all suits and actions, claims and demands of every name and description brought against it, them or any of them, and against and from all damage and costs to which it, they or any of them be put by reason of injury to the person or property of another, resulting from negligence or carelessness in the performance of the work, or in guarding the same, or from any improper or defective materials or machinery, implements or appliances used in the removal of said buildings.

Where party walls are found to exist between buildings purchased by different bidders, the materials of said party walls shall be understood to be equally divided between the separate purchasers.

Party walls and fences, when existing against adjacent property not sold, shall not be taken down. All furrings, plaster, chimneys, projecting brick, etc., on the faces of such party walls are to be taken down and removed. The walls shall be made permanently self-supporting, beam-ends, etc., bricked up, and the wall pointed and made to exclude wind and rain and present a clean exterior. The roofs and adjacent buildings shall be properly flashed and painted and made watertight where they have been disturbed by the operations of the Contractor.

The Comptroller of The City of New York reserves the right on the day of sale to withdraw from sale any of the buildings, parts of buildings and machinery included therein, or to reject any and all bids; and it is further

Resolved, That, while the said sale is held under the supervision of the Commissioners of the Sinking Fund, the Comptroller is authorized to cause the sale to be advertised and to direct the sale thereof as financial officer of the City.

PROPOSALS FOR BIDS AND ESTIMATES FOR THE CITY OF NEW YORK.

NOTICE TO CONTRACTORS.

GENERAL INSTRUCTIONS TO BIDDERS.

The person or persons making a bid or estimate for any services, work, materials or supplies for The City of New York, or for any of its departments, bureaus or offices, shall furnish the same in a sealed envelope, indorsed with the title of the supplies, materials, work or services for which the bid or estimate is made, with his or their name or names and the date of presentation to the President or Board or to the head of the Department at his or its office, on or before the date and hour named in the advertisement for the same, at which time and place the estimates received will be publicly opened by the President or Board or head of said Department and read, and the award of the contract made according to law as soon thereafter as practicable.

Each bid or estimate shall contain the name and place of residence of the person making the same, and names of all persons interested with him therein, and, if no other person be so interested, it shall distinctly state that fact; also, that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud, and that no member of the Board of Aldermen, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of The City of New York, shall be or become interested, directly or indirectly, as contracting party, partner, stockholder, surety or otherwise in or in the performance of the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate that the several matters stated herein are in all respects true.

No bid or estimate will be considered unless, as a condition precedent to the reception or consideration of any proposal, it be accompanied by a certified check upon one of the State or National banks of The City of New York, drawn to the order of the Comptroller, or money or corporate stock or certificates of indebtedness of any nature issued by The City of New York, which the Comptroller shall approve as of equal value with the security required in the advertisement to the amount of not less than three nor more than five per centum of the amount of the bond required, as provided in section 420 of the Greater New York Charter.

The amount shall be as specified in the proposals or instructions to bidders and shall not be in excess of 5 per cent.

The certified check or money should not be inclosed in the envelope containing the bid or estimate, but should be either inclosed in a separate envelope addressed to the head of the Department, President or Board, or submitted personally upon the presentation of the bid or estimate.

For particulars as to the quantity and quality of the supplies, or the nature and extent of the work, reference must be made to the specifications, schedules, plans, etc., on file in the said office of the President, Board or Department.

No bid shall be accepted from or contract awarded to any person who is in arrears to The City of New York upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the City.

The contract must be bid for separately. The right is reserved in each case to reject all bids or estimates if it is deemed to be for the interest of the City so to do.

Bidders will write out the amount of their bids or estimates in addition to inserting the same in figures.

Bidders are requested to make their bids or estimates upon the blank forms prepared and furnished by the City, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the Department for which the work is to be done. Plans and drawings of construction work may also be seen there.