PUBLIC LIBRARY
618469
ASTOR, LENOX AND TILDEN FOUNDATIONS
1915

THE CITY RECORD.

VOL. XLIII. NUMBER 12811. NEW YORK, THURSDAY, JULY 1, 1915. PRICE, 3 CENTS.

THE CITY RECORD.

OFFICIAL JOURNAL OF THE CITY OF NEW YORK.
Published Under Authority of Section 1526, Greater New York Charter, by the
BOARD OF CITY RECORD.
JOHN PURROY MITCHEL, MAYOR.
FRANK L. POLK, CORPORATION COUNSEL. WILLIAM A. PRENDERGAST, COMPTROLLER.

DAVID FERGUSON, SUPERVISOR.
Supervisor's Office, Municipal Building, 8th floor.

Published daily, at 9 a. m., except legal holidays, at Nos. 96 and 98 Reade street (north side), between West Broadway and Church street, New York City.

Subscription, $9.30 per year, exclusive of supplements. Daily issue, 3 cents a copy.

SUPPLEMENTS: Civil List (containing names, salaries, etc., of the City employees), Two Dollars; Official Canvass of Votes, 10 cents; Registry Lists, 5 cents each assembly district; Law Department Supplement, 10 cents; Annual Assessed Valuation of Real Estate, 25 cents each section; postage prepaid.

ADVERTISING: Copy for publication in the CITY RECORD must be received at least TWO (2) days before the date fixed for the first insertion; when proof is required for correction before publication, copy must be received THREE (3) days before the date fixed for the first insertion.

COPY for publication in the corporation newspapers of Brooklyn must be received at least THREE (3) days before the date fixed for the first insertion.

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

TABLE OF CONTENTS.

Aldermen, Board of—
Minutes of Stated Meeting Held June 29, 1915 5307
Public Hearing by the Committee on the City Plan 5307
Assessors, Board of—
Completion of Assessments..... 5368
Notice to Present Claims for Damages 5368
Bellevue and Allied Hospitals; Bridges, Correction, Docks and Ferries, Fire, Public Charities, Water Supply, Gas and Electricity, Departments of—
Proposals 5367
Bellevue and Allied Hospitals; Bridges, Fire, Public Charities, Water Supply, Gas and Electricity, Departments of—
Proposals 5367
Bellevue and Allied Hospitals; Correction, Docks and Ferries, Fire, Health, Police, Public Charities, Departments of—
Proposals 5367
Board Meetings 5361
Bridges, Docks and Ferries, Fire, Public Charities, Water Supply, Gas and Electricity, Departments of—
Proposals 5367
Bronx, Borough of—
Proposals 5361
Brooklyn, Borough of—
Proposals 5368
Changes in Departments, etc..... 5359
College of The City of New York—
Proposals 5364
Correction, Department of—
Proposals 5363
Docks and Ferries, Department of—
Proposals 5363
Education, Department of—
Proposals 5367
Estimate and Apportionment, Board of—
Notice of Public Hearing, Franchise Matters 5363
Notices of Public Hearings, Public Improvement Matters 5363
Finance, Department of—
Abstract of Transactions for Week Ended May 22, 1915..... 5356
Confirmation of Assessments..... 5366
Corporation Sales of Buildings..... 5365
Corporation Sales of Real Estate.... 5365
Interest on City Bonds and Stock.... 5366
Sureties on Contracts 5366
Vouchers Received June 30, 1915... 5355
Finance, Department of —
Warrants Made Ready for Payment June 30, 1915 5352
Fire Department—
Proposals 5365
Instructions to Bidders for Work to Be Done or Supplies to Be Furnished... 5370
Law Department—
Extract of Transactions for Week Ended May 29, 1915..... 5357
Manhattan, Borough of—
Proposals 5367
Municipal Civil Service Commission—
Notices of Examinations 5363
Proposed Amendments to Classifications 5363
Notice to Bidders at Sales of Old Buildings, etc. 5370
Official Directory 5360
Parks, Department of—
Proposals 5364
Police Department—
Owners Wanted for Unclaimed Property 5364
Public Charities, Department of—
Proposals 5362
Public Service Commission, First District—
Calendar for the Week Commencing June 28, 1915 5352
Invitation to Bidders 5363
Invitation to Contractors 5362
Queens, Borough of—
Proposals 5367
Revision of Assessments, Board of—
Proceedings at Meetings Held June 17 and 24, 1915 5359
Richmond, Borough of—
Proposals 5365
Sinking Fund, Commissioners of the—
Public Notice 5364
Street Cleaning, Department of—
Proposals 5363
Supreme Court, First Department—
Filing Bill of Costs..... 5369
Filing Final Reports 5369
Filing Preliminary Abstracts..... 5369
Supreme Court, Second Department—
Filing Bill of Costs..... 5369
Filing Final Reports..... 5369
Filing Preliminary Abstracts..... 5370
Hearings on Qualifications..... 5370
Water Supply, Board of—
Proposals 5364
Water Supply, Gas and Electricity, Department of—
Proposals 5362

BOARD OF ESTIMATE AND APPORTIONMENT

Public Hearing by the Committee on the City Plan.

Rescinding Resolution Fixing a Roadway Width of 44 Feet for Jamaica Avenue, in so far as It Relates to That Portion of Jamaica Avenue Between Broadway and Crescent Street, Borough of Brooklyn.

NOTICE IS HEREBY GIVEN that the Committee on the City Plan of the Board of Estimate and Apportionment will hold a public hearing on THURSDAY, JULY 1, 1915, at 3 p. m., in Room 16, City Hall, Borough of Manhattan, in relation to the rescission of the resolution fixing a roadway width of 44 feet for Jamaica Avenue, in so far as it relates to that portion of Jamaica Avenue between Broadway and Crescent Street, Borough of Brooklyn.

Dated June 29, 1915.

j29,jy1 JOSEPH HAAG, Secretary, Municipal Building.

THE BOARD OF ALDERMEN OF THE CITY OF NEW YORK.

STATED MEETING.

Tuesday, June 29, 1915, 1.30 o'Clock P. M.

The Board met in the Aldermanic Chamber, City Hall.

Present:

Hon. George McAneny, President of the Board of Aldermen.

Aldermen

Jacob Bartscherer.	Edward Eichhorn.	James F. Mullen.
Daniel M. Bedell.	James R. Ferguson.	James J. Nugent.
Albert C. Benninger.	John T. Eagan.	John J. O'Rourke.
Robert H. Bosse.	August Ferrand.	Henry Ottes.
William D. Brush.	William Fink.	Wm. H. Pendry.
Samuel J. Burden.	John S. Gaynor.	Charles A. Post.
William H. Burns.	Joseph M. Hannon.	Hyman Pouker.
Michael Carberry.	Michael J. Hogan.	William F. Quinn.
Lauren Carroll.	Oscar Igstaedter.	John J. Reardon.
William H. Chorosh.	Louis Jacobson.	Harry Robitzek.
Charles P. Cole.	William P. Kenneally.	Isador M. Rosenblum.
William W. Colne.	Francis P. Kenney.	Peter Schweickert.
Frank Cunningham.	John Kochendorfer.	Arnon L. Squiers.
Henry H. Curran.	William J. Lein.	Michael Stapleton.
Charles Delaney.	Abraham M. Levy.	Frederick H. Stevenson.
John Diemer.	John McCann.	Edward H. Taylor.
Frank T. Dixson.	John F. McCourt.	Frederick Trau.
Bernard E. Donnelly.	Anthony J. McNally.	Edward B. Valentine.
Frank Dostal, Jr.	James A. Milligan.	Jacob Weil.
Frank J. Dotzler.	James J. Molen.	Louis Wendel, Jr.
Frank L. Dowling.	Charles J. Moore.	John J. White.
William Duggan.	Robert L. Moran.	Frederick H. Wilmot.
Alexander Dujat.	Frank Mullen.	

Charles J. McCormack, President, Borough of Richmond, by Spire Pitou, Jr., Commissioner of Public Works.

Maurice E. Connolly, President, Borough of Queens.

Douglas Mathewson, President, Borough of The Bronx.

Lewis H. Pounds, President, Borough of Brooklyn.

Marcus M. Marks, President, Borough of Manhattan, by Ralph Folks, Commissioner of Public Works.

The President announced that Alderman McGarry had been excused from attendance.

The Clerk proceeded to read the minutes of the stated meeting of June 22, 1915.

On motion of Alderman Dowling, further reading was dispensed with, and the minutes were approved as printed.

MESSAGES FROM THE MAYOR.

The President laid before the Board the following communication from his Honor the Mayor:

No. 1865.

Veto by His Honor the Mayor of Resolution to Transfer the Memorial Committee of the G. A. R. from Room No. 3 to Room No. 1 in the City Hall.

City of New York, Office of the Mayor. June 29, 1915.

To the Honorable the Board of Aldermen:

Gentlemen—I regret that it is necessary to return disapproved proposed Resolution No. 1865, entitled:

"Resolution to transfer the Memorial Committee of the G. A. R. from Room No. 3 to Room No. 1, in the City Hall."

The present alterations in the Mayor's Office will probably make it desirable to use the room designated as No. 1 in the basement of the City Hall, formerly occupied by the Bureau of Weights and Measures, as this room is most accessible for the purposes of this office. Respectfully,

JOHN PURROY MITCHEL, Mayor.

Resolved, That the Memorial Committee of the Grand Army of the Republic, now located in Room No. 3, in the basement of the City Hall, be and the same is hereby transferred to Room No. 1.

Which was laid over, ordered printed in the minutes and published in full in the CITY RECORD.

RESIGNATION OF VICE-CHAIRMAN ESTERBROOK.

No. 1925.

Resignation of Vice-Chairman Esterbrook.

The City of New York, Office of the Vice-Chairman of the Board of Aldermen, City Hall, New York, June 28th, 1915.

Hon. GEORGE MCANENY, *President of the Board of Aldermen,* City Hall, New York City, N. Y.:

Dear Sir—I hereby resign from the Board of Aldermen of The City of New York, and as Alderman from the 58th District, in the Borough of Brooklyn, City of New York. Very truly yours, O. GRANT ESTERBROOK.

The President announced that this paper would be filed, the resignation having already become effective.

The President and Aldermen Dowling and Curran spoke briefly commending the part Mr. Esterbrook had taken in the deliberations of the Board.

The former Vice-Chairman responded, and thanked the members for their kindly expressions.

ORDINANCES AND RESOLUTIONS.

No. 1926.

Resolution Electing Frederick Smith Alderman for the Fifty-eighth Aldermanic District.

By Alderman Diemer—

Resolved, That Frederick Smith, of 105 McDonough street, in the Borough of Brooklyn, be and he is hereby elected Alderman for the 58th Aldermanic District for the remainder of the term of the years 1914 and 1915, in the place and stead of O. Grant Esterbrook, resigned.

The President put the question whether the Board would agree to adopt said resolution.

Which was unanimously decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Bosse, Brush, Burns, Carberry, Chorosh, Cole, Colne, Cunningham, Curran, Diemer, Dixson, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, McNally, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Nugent, O'Rourke, Pendry, Post, Poker, Quinn, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stevenson, Taylor, Trau, Valentine, Weil, White—58.

No. 1927.

Resolution Electing S. Clinton Crane Alderman for the Twenty-third Aldermanic District.

By Alderman Curran—

Resolved, That S. Clinton Crane, of 825 West 180th street, in the Borough of Manhattan, be and he is hereby elected Alderman for the 23rd Aldermanic District for the remainder of the term of the years 1914 and 1915, in the place and stead of John H. Boschen, resigned.

Board of Elections of The City of New York, General Office, Municipal Building, Manhattan, New York, June 25th, 1915.

Board of Aldermen, City Hall, New York:

Gentlemen—I herewith certify that the name of S. Clinton Crane, residing at No. 825 West 180th Street, the 67th Election district of the 23rd Assembly District, New York County, is enrolled for the year 1914, as a Republican. Yours very truly,

MOSES M. McKEE, Secretary.

The President put the question whether the Board would agree to adopt said resolution.

Which was unanimously decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Bosse, Brush, Burns, Carberry, Chorosh, Cole, Colne, Cunningham, Curran, Diemer, Dixson, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, McNally, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Nugent, O'Rourke, Pendry, Post, Poker, Quinn, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stevenson, Taylor, Trau, Valentine, Weil, White—58.

The President appointed Aldermen Dotzler and Moran as a committee of two to escort the newly elected members before the proper authority to take their oaths of office.

Subsequently the committee reported that Aldermen Smith and Crane had duly qualified, and the President introduced them to the Board, and assigned them to seats.

No. 1928.

Resignation of Alderman Henry H. Curran from the Chairmanship of the Committee on Finance.

By Alderman Curran—

City of New York, Board of Aldermen, City Hall, Committee on Finance, June 29th, 1915.

Hon. GEORGE MCANENY, *President of the Board of Aldermen:*

Sir—I beg to submit hereby my resignation from the Chairmanship of the Committee on Finance of the Board of Aldermen. Respectfully.

HENRY H. CURRAN.

Which was accepted.

No. 1929.

Resolution Electing Alderman Henry H. Curran Vice-Chairman of the Board of Aldermen.

By Alderman Brush—

Resolved, That Henry H. Curran be and he is hereby elected Vice-Chairman of the Board of Aldermen for the remainder of the term of the years 1914 and 1915, in the place and stead of O. Grant Esterbrook, resigned.

The President put the question whether the Board would agree to adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Carroll, Chorosh, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dowling, Duggan, Dujat, Eagan, Eichhorn, Ferguson, Gaynor, Hannon, Hogan, Jacobson, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, McNally, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), O'Rourke, Ottes, Pendry, Post, Pouker, Quinn, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Taylor, Trau, Valentine, Weil, White, Wilmot; President Connolly, President Mathewson, President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works—60.

No. 1930.

Resolution Electing Frederick H. Stevenson Chairman of the Committee on Finance.

By Alderman Diemer—

Resolved, That Frederick H. Stevenson be and he is hereby elected Chairman of the Committee on Finance of the Board of Aldermen for the remainder of the term of the years 1914 and 1915, in the place and stead of Henry H. Curran, resigned.

The President put the question whether the Board would agree to adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Carroll, Chorosh, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dowling, Duggan, Dujat, Eagan, Eichhorn, Ferguson, Gaynor, Hannon, Hogan, Jacobson, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, McNally, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), O'Rourke, Ottes, Pendry, Post, Pouker, Quinn, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Taylor, Trau, Valentine, Weil, White, Wilmot; President Connolly, President Mathewson, President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works—60.

COMMUNICATIONS FROM CITY, COUNTY AND BOROUGH OFFICERS.

The President laid before the Board the following communication from the Corporation Counsel:

No. 1931.

Corporation Counsel—Opinion as to Power of Board of Aldermen to Require That All Books Used in Public Schools Shall Be Printed, Published and Bound Within The City of New York.

City of New York, Law Department, Office of the Corporation Counsel, New York, June 1, 1915.

Hon. HENRY CURRAN, *Chairman, Committee on Finance, Board of Aldermen:*

Sir—I have received your communication dated May 6, 1915, requesting advice as to the power of the Board of Aldermen to enact a proposed ordinance which you transmit and which purports to require that all books purchased by The City of New York for use in the public schools shall be printed, published and bound within The City of New York, and that all books which are rebound for use in the public schools in The City of New York shall be rebound within The City of New York. You also transmit copies of letters addressed to John T. Wortman with respect to similar legislation elsewhere.

If such a regulation would be proper in any event, I am of opinion that the subject is one peculiarly within the cognizance of the Board of Education, and that such an ordinance is not within the powers of the Board of Aldermen.

Respectfully yours, FRANK L. POLK, Corporation Counsel.

Which was ordered on file.

ORDINANCES AND RESOLUTIONS RESUMED.

No. 1932.

Resolution Requesting His Honor the Mayor to Return to the Board Ordinance No. 1697.

By Alderman Brush—

Resolved, That his Honor the Mayor be and he is hereby requested to return to this Board for further consideration an ordinance now in his hands (Int. No. 1697), entitled "An Ordinance to amend article 8 of chapter 10 of the Code of Ordinances relating to the transportation, sale, delivery or use of petroleum, shale oil, or any liquid product thereof, or coal tar."

Which was adopted.

The paper was then received from his Honor the Mayor and is as follows:

No. 1697.

The Committee on General Welfare, to which was referred on April 27, 1915 (Minutes, page 287), the annexed ordinance in relation to the transportation of petroleum, shale oil, or the liquid products of either, respectfully

REPORTS:

That, having carefully examined the subject, it believes the proposed regulation to be necessary. It has been advocated both by the Fire Department and by individuals and organizations interested in public safety, and seems to be designed, as modified by the Committee, to protect life and property.

It therefore recommends that the accompanying substitute ordinance be adopted.

SUBSTITUTE.

AN ORDINANCE to amend Article 8 of Chapter 10 of the Code of Ordinances relating to the transportation, sale, delivery or use of petroleum, shale oil, or any liquid product thereof, or coal tar.

Be It Ordained by the Board of Aldermen of The City of New York, as follows:

Section 1. Section 113, Subdivision 1 of Chapter 10 is hereby amended to read as follows:

Section 113. Transportation and delivery. 1. *Permit.* Except as otherwise provided in this chapter, no person shall transport, *store, sell,* deliver *or use* within the City any petroleum or shale oil, or the liquid products of either, or of coal tar without a permit. *And no such permit shall be granted unless the boat, barge, vessel, or vehicle transporting any of the articles mentioned in this section is provided with a fire extinguisher approved by the Fire Commissioner or by the Board of Fire Underwriters.*

2. Containers. Petroleum and shale oil, and the liquid products thereof, and of coal tar, except volatile inflammable oils, may be transported in the following named containers:

(a) In tank cars or through supply pipes;

(b) In steel, iron or wooden barrels or drums of a capacity not exceeding 55 gallons each;

(c) In cans of a capacity not exceeding ten gallons each made of at least No. 25 B. W. G. tin or terne plate, packed in substantial wooden cases.

3. Tank wagons. No person shall transport petroleum or shale oil, or the liquid products thereof, or of coal tar, in a tank wagon, unless it be of a type for which a certificate of approval shall have been issued; provided, however, that a certificate of approval of a type or kind of tank wagon issued under this section to a given person shall not be construed as an approval of a similar type or kind of tank wagon owned, operated or used by another person. The tank of such a wagon shall be constructed of iron or steel not less than ⅛ of an inch thick for the top plates and 3-16 of an inch thick for the bottom plates; and shall be equipped with faucets which shall be kept locked when not in use. The capacity of the tank wagon shall not exceed 35 barrels of 55 gallons each. Each such wagon shall have painted on both sides thereof in letters not less than 3 inches high, the name of the person operating it, and the number of the certificate of approval.

Section 2. This ordinance shall take effect immediately.

Note—New matter in *italics.*

WM. BRUSH, ARNON L. SQUIERS, W. F. QUINN, OSCAR IGSTAEDTER, HYMAN POUKER, W. H. PENDRY, Committee on General Welfare.

Alderman Curran moved that the vote by which this ordinance was adopted be reconsidered.

Which motion was adopted.

The paper was then placed on file.

No. 1933.

Resolution Requesting His Honor the Mayor to Return Int. No. 1496 to the Board for Further Consideration.

By Alderman Dowling—

Resolved, That his Honor the Mayor be and he is hereby requested to return to this Board for further consideration an ordinance now in his hands, Int. No. 1496, entitled "An Ordinance to amend article 17 of chapter 10 of the Code of Ordinances relating to the manufacture, transportation, storage, sale and use of gases under pressure."

Which was adopted.

The paper was then received from his Honor the Mayor and is as follows:

No. 1496.

The Committee on General Welfare, to which was recommitted on May 4, 1915 (Minutes, page 399), the annexed ordinance in favor of amending article 17 of chapter 10 of the Code of Ordinances relating to the manufacture, transportation, storage, sale and use of gases under pressure, respectfully

REPORTS:

That having again examined the subject, it believes the proposed ordinance to be necessary.

It therefore recommends that the said ordinance be adopted.

SUBSTITUTE.

AN ORDINANCE to amend Article 17 of Chapter 10 of the Code of Ordinances, Relating to the Manufacture, Transportation, Storage, Sale and Use of Gases Under Pressure.

Be it ordained by the Board of Aldermen of The City of New York, as follows:

Section 1. Section 210 of Chapter 10 is hereby amended to read as follows:

Section 210. Permit. No person shall compress, *generate,* store, or sell any acetylene, Blaugas, Pintsch gas or other gases and mixtures of gases *or transport through a pipe from one locality to another any gas, unless otherwise herein provided for,* [to] *at* a pressure [greater than] *exceeding* 6 pounds to the square inch, *or atmospheric air to a pressure exceeding* 100 *pounds to the square inch, nor in quantities exceeding a total container capacity of* 30 *cubic feet,* without a permit.

Section 2. Subdivision 2 of §211 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows:

2. Certificate of fitness. No gas shall be compressed *or generated* to a pressure greater than [6] 15 pounds to the square inch, unless [such compression be done] under the supervision of a person holding a certificate of fitness.

Section 3. Subdiviison 4 of §211 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows:

4. *Containers; certificate of approval.* No person shall transport, store or sell any gas compressed to a pressure greater than 15 pounds to the square inch, except it be contained in a metal tank, cylinder or other metal container, or of a type [for which a certificate of approval shall have been issued.] *approved by the fire commissioner or the interstate commerce commission.*

Section 4. Subdivision 1 of §211 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows:

1. *Capacity.* No person shall store *for sale* [tanks or cylinders containing] *any* gas compressed to a pressure greater than [15] 6 pounds to the square inch [aggregating more than 250 cubic feet] without a permit, *except the following:*

(a) Nitrous oxide or oxygen for use for medical or surgical purposes in quantities not exceeding a total container capacity of 5 cubic feet for both gases, and in containers none of which shall have a capacity exceeding 2.5 cubic feet;

(b) Combustible gases under pressure exceeding 15 pounds per square inch, such as Blaugas and acetylene, in quantities not exceeding 500 cubic feet gas measure and in containers none of which shall have a capacity exceeding 2.5 cubic feet.

(c) Non-combustible liquefied gases in quantities not exceeding a total container capacity of 1 cubic foot, and in containers none of which shall have a capacity exceeding 200 cubic inches.

No person shall use or store for use within the city any gas compressed to a pressure greater than 6 pounds to the square inch, without a permit, except;

(d) Non-combustible, non-liquefied gases, such as atmospheric air, oxygen, carbon dioxide, nitrous oxide, compressed to a pressure not exceeding 100 pounds to the square inch and in quantities not exceeding a total container capacity of 30 cubic feet;

(e) Non-combustible, non-liquefied gases, such as atmospheric air, oxygen, nitrous oxide, nitrogen, compressed to a pressure not exceeding 300 pounds to the square inch and in quantities not exceeding a total container capacity of 30 cubic feet, and in containers of which none shall have a capacity exceeding 6 cubic feet;

(f) Non-combustible, non-liquefied gases, such as atmospheric air, oxygen or nitrogen, compressed to a pressure exceeding 300 pounds to the square inch and in quantities not exceeding a total container capacity of 20 cubic feet, and in containers none of which shall have a capacity exceeding 2.5 cubic feet;

(g) Combustible, non-liquefied, non-absorbed gases, suh as hydrogen, illuminating gas, compressed to a pressure not exceeding 300 pounds to the square inch, and in quantities not exceeding a total container capacity of 30 cubic feet and in containers none of which shall have a capacity exceeding 6 cubic feet;

(h) Combustible, non-liquefied, non-absorbed gases, such as hydrogen, illuminating gas, compressed to a pressure exceeding 300 pounds to the square inch and in quantities not exceeding a total container capacity of 10 cubic feet, and in containers none of which shall have a capacity exceeding 2.5 cubic feet;

(i) Soda water tanks containing carbonic acid under pressure not exceeding 150 pounds to the square inch, and in quantities not exceeding a total container capacity of 20 cubic feet, and in containers none of which shall have a capacity exceeding 2 cubic feet;

(j) Absorbed acetylene, under pressure not exceeding 250 pounds to the square inch, and in quantities not exceeding a total container capacity of 10 cubic feet, and in containers none of which shall have a capacity exceeding 2.5 cubic feet;

(k) Non-combustible liquefied gases, except ammonia, such as nitrous oxide, carbonic acid, sulphur dioxide, chlorine, in quantities not exceeding a total container capacity of 12 cubic feet, and in containers none of which shall have a capacity exceeding 1.5 cubic feet. Anhydrous liquid ammonia not exceeding a total container capacity of 12 cubic feet, and in containers none of which shall have a capacity exceeding 5.5 cubic feet, except as otherwise provided in these regulations.

(1) Combustible, liquefied gases, such as blaugas, in quantities not exceeding a total container capacity of 8 cubic feet, and in containers none of which shall have a capacity exceeding 1.5 cubic feet.

Section 5. Subdivision 3 of §211 of chapter 10 of the Code of Ordinances is hereby amended to read as follows:

3. *Construction.* All tanks and cylinders used for the storage of gas under pressure shall be constructed of rolled, drawn or forged steel, and shall be either seamless, brazed, welded or rivited. [Each tank or cylinder used for the storage of gas under pressure, other than acetylene, shall be tested to withstand a pressure double that at which they are intended to be filled.] *Containers now in use and purchased hereafter for storing or transporting compressed gases, must be subjected at least once in 5 years to a uniform interior pressure test, in which the test pressure must be as follows:*

For containers for liquid carbonic acid, liquid nitrous oxide, or blaugas, 3,000 pounds to the square inch;

For containers for liquid anhydrous ammonia, not less than 430 pounds to the square inch;

For containers for liquid chlorine, not less than 400 pounds to the square inch;

For containers for liquid sulphur dioxide, not less than 250 pounds to the square inch;

For containers for compressed gases, not liquefied and not absorbed, not less than twice the charging pressure at 70° F., unless such test pressure should exceed 600 pounds, in which case the test pressure shall be not less than one and two-thirds times the charging pressure and 70° F.;

A cylinder must be condemned when it leaks, or when the permanent expansion exceeds 10 per cent. of the total expansion. When the charging pressure is less than 300 pounds to the square inch, it will not be necessary to measure the permanent expansion in quinquennial pressure tests provided the cylinder in question has previously passed this test. All containers used for storage and transportation of compressed gases under more than 15 pounds pressure to the square inch, must be plainly stamped with the date of the last test; for example, "9-13" for September, 1913. Containers that have not been tested and marked as prescribed herein must not be charged or transported until properly tested and marked.

Section 6. Subdivision 8 of §212 of chapter 10 of the Code of Ordinances is hereby amended to read as follows:

8. *Storage tanks.* All tanks and cylinders used for the storage of acetylene under pressure *having originally passed the required test shall be exempt from the quinquennial test, but* shall be designed and constructed to withstand a pressure of 1,200 pounds to the square inch without rupture, and to withstand a pressure of at least 550 pounds to the square inch without exhibiting strain beyond the point of usefulness. Each tank and cylinder used for the storage of acetylene under pressure shall be tested to withstand a pressure of 500 lbs. to the square inch; and no person shall generate, transport, store or sell acetylene in an apparatus, tank or other container in the construction of which unalloyed copper is used. No tank or cylinder containing acetylene in quantities aggregating more than 2,500 cubic feet shall be

stored in any building except under a special permit. Acetylene contained in tanks or cylinders attached to vehicles and ready for use shall not be included in computing the quantity stored in any building.

Section 7. Subdivision 5 of §211 of chapter 10 of the Code of Ordinances is hereby amended to read as follows:

5. *Pressure gauge.* [Each tank or cylinder] *Containers* used for the storage of gas under pressure *of more than* 15 *pounds to the square inch* shall be provided with a pressure gauge, or with an opening to which such gauge may be attached, for determining the pressure of the gas in the [tank or cylinder and with a safety plug or plugs, which shall release at a temperature of 350° F.] *container. After January 1st,* 1916, *no container exceeding 12 inches in length, containing liquefied gases, gases in solution or other gases under a pressure of more than* 15 *pounds per square inch at 70° F., except anhydrous ammonia, shall be filled within the city, except for immediate export; nor shall any such filled cylinder be brought into the city unless it be equipped with a safety device or fusible plug of a type approved by the fire commissioner or interstate commerce commission, to prevent the explosion of a normally charged cylinder when placed in a fire.*

Section 8. Subdivision 6 of §211 of chapter 10 of the Code of Ordinances is hereby amended to read as follows:

6. *Stamped.* Each [tank or cylinder] *container* used for the storage *or transportation* of gas under pressure shall have plainly [stamped] *and permanently marked* thereon the name of the *original purchaser or* manufacturer, *or a mark by which the ownership or responsibility for filling the container can easily be established, and each container* [the tensile strength of the material used in the construction of the tank or cylinder, the year of manufacture, the name or kind of gas contained in the tank or cylinder; and] shall be identified by a serial number. *When containers are tested a complete record shall be kept thereof, and this record, or a certified copy thereof shall, upon reasonable notice and demand, be produced for the inspection of the interstate commerce commission or the fire commissioner.*

§9. Subdivision 7 of §211 of article 17 of chapter 10 of the code of ordinances is hereby repealed.

Section 10. This ordinance shall take effect immediately.

Note—New matter in *italics;* old matter, in brackets [ ], to be omitted.

WM. D. BRUSH, WM. H. PENDRY, W. F. QUINN, HYMAN POUKER, OSCAR IGSTAEDTER, JOHN J. REARDON, Committee on General Welfare.

Alderman Dowling moved that the vote by which this ordinance was adopted be reconsidered.

Which motion was adopted.

The paper was then committed to the Committee on General Welfare.

PETITIONS AND COMMUNICATIONS.

No. 1934.

United German Societies of Queens County—Resolution Requesting That the Board of Aldermen Do Not Sanction the Change of Name of Steinway Tunnel to Queensboro Subway.

Long Island City, June 26th, 1915.

Hon. Board of Aldermen, City Hall, New York City:

Gentlemen—At a recent meeting of the Executive Committee of the Queens County Branch of the German-American National Alliance the following resolution was passed:

Whereas, It is proposed to change the name of the tunnel between 42nd Street and Long Island City, known as "Steinway Tunnel," to "Queensboro Subway," and

Whereas, The late William Steinway after whom the tunnel was named was the originator of the idea of tunnel connection between Manhattan and Queens, and

Whereas, William Steinway was a man of sterling qualities, a citizen of the highest order, and one whose memory should always be kept green by the people of New York and especially by the people of Queens, and

Whereas, There is no valid reason for the substitution of the name "Queensboro Subway" for "Steinway Tunnel," therefore be it

Resolved, That the Board of Aldermen be respectfully requested *not* to sanction the change of name of the Steinway Tunnel, and be it further

Resolved, To send a copy of these resolution to the Board of Aldermen of the City of New York. Respectfully,

UNITED GERMAN SOCIETIES OF QUEENS COUNTY, JOHN HERRING, Secretary.

Which was ordered on file.

COMMUNICATIONS FROM CITY, COUNTY AND BOROUGH OFFICERS.

The President laid before the Board the following communication from the President of the Borough of Manhattan:

No. 1935.

President of the Borough of Manhattan—Designation of Ralph Folks, Commissioner of Public Works, to Act in His Place and Stead Whenever Absent.

City of New York, President of the Borough of Manhattan, Municipal Building, June 23, 1915.

Hon. GEORGE MCANENY, *President of the Board of Aldermen,* City Hall:

Dear Sir—I beg to transmit herewith copy of a letter I have this day addressed to Hon. Ralph Folks, appointing him as Commissioner of Public Works of the Borough of Manhattan, and designating him as Acting President of the Borough with full authority to represent me in the Board of Estimate and Apportionment and the Board of Aldermen whenever on account of absence, illness or otherwise I shall be prevented from attending. Very truly yours,

MARCUS M. MARKS, President, Borough of Manhattan.

Office of the President, Borough of Manhattan, June 23, 1915.

Hon. RALPH FOLKS, 1030 Park Avenue, New York City:

Dear Sir—Pursuant to the authority vested in me by section 383 of the Greater New York Charter, I hereby appoint you as Commissioner of Public Works for the Borough of Manhattan, with compensation at the rate of $7,200 per annum, and in this capacity I hereby confer upon you all of the administrative powers of the President of the Borough in relation to streets, sewers, public buildings and supplies, including the power of appointment, promotion, transfer or removal of subordinate officers or employees, excepting only those officers or employees classified in the exempt schedule under Civil Service rules; and I hereby further designate you as Acting President of the Borough of Manhattan to act in my place and stead as a member of the Board of Estimate and Apportionment of the City of New York and as a member of the Board of Aldermen of the City of New York whenever on account of absence, illness or otherwise I shall be prevented from attending meetings of the said Boards; such authority as herein set forth to be vested in you from this date.

Very truly yours, MARCUS M. MARKS, President, Borough of Manhattan.

Which was ordered on file.

The President laid before the Board the following communications from the Department of Public Charities:

No. 1936.

Commissioner of Public Charities—Request for Special Revenue Bonds, $8,500, to Make Necessary and Complete Repairs to Stable at Kings County Hospital, Damaged by Fire.

Department of Public Charities of the City of New York, Municipal Building, Tenth Floor, June 16, 1915.

Re Issue of Special Revenue Bonds—$8,500.

To the Honorable, The Board of Aldermen, City Hall, New York, N. Y.:

Gentlemen—On the morning of June 11 a fire occurred in the stable at the Kings County Hospital, doing damage to the extent of about $8,500. It is necessary that repairs to be made to this building at once, and as the funds of the Department are now in such a condition that money from them cannot be spared to make these repairs, I would recommend that your Honorable Board grant an issue of special revenue bonds to the amount of $8,500 for making the necessary and complete repairs to the building in question. Very respectfully yours,

JOHN A. KINGSBURY, Commissioner.

Which was referred to the Committee on Finance.

No. 1937.

Commissioner of Public Charities—Request for Authority to Purchase Flour Without Public Letting.

Department of Public Charities of the City of New York, Municipal Building, Tenth Floor, June 26, 1915.

Re Open Market Purchase of Flour.

Honorable Board of Aldermen, City of New York:

Gentlemen—I respectfully request permission to purchase flour in the open market for the three months ending September 30th, 1915, to an amount not exceeding forty thousand dollars.

The reason for this request is that at the present time the flour market is in a very unsettled condition, there recently having been instances of the price of this commodity changing from five to fifty cents a barrel within a day or two, which naturally causes a great deal of speculation in bidding upon an item of this kind. To substantiate this statement, would call to your attention that upon the specification opened February 23rd, for two thousand four hundred barrels flour there was only one bid received of $7.49 per barrel, which would clearly show that business men do not care to speculate by bidding or entering into a contract for such an uncertain item.

Also wish to advise that upon the previous request which you granted to purchase flour in open market to the extent of twenty thousand dollars, the flour was purchased at an average of six dollars and seventy cents per barrel or a difference of seventy-nine cents per barrel when compared with the contract system. From this you will note that the City saved two thousand three hundred and seventy dollars upon the previous open market purchase privilege which you granted.

As stated above, this is only intended to cover a period of three months, after which time, if the market becomes more settled, the Department will be glad to again purchase under the contract system. However, it is my opinion that the interests of the City can be best protected by purchasing this item in the open market at current prices.

Trusting you will grant this request, I am, Yours respectfully,

JOHN A. KINGSBURY, Commissioner.

Which was referred to the Committee on Public Letting.

At this point the President called the Vice-Chairman to the Chair.

The Vice-Chairman laid before the Board the following communication from the President of the Borough of Queens:

No. 1938.

President of the Borough of Queens—Request for Authority to Correct Acoustical Conditions.

The City of New York, Office of the President of the Borough of Queens, Long Island City, June 21, 1915.

To the Honorable the Board of Aldermen, City of New York:

Gentlemen—Your approval is hereby requested, in accordance with the provisions of section 419 of the Charter, of the award, without public letting, of a contract to correct the acoustical conditions in the room used by Part I of the Supreme Court, Queens County, in the County Court House.

The Judges of the Supreme Court have requently complained of the unsatisfactory acoustical conditions in Part I, and have requested that this office correct them if possible. The problem was submitted to experts, and it was determined that it is possible to correct the defect. An estimate of $2,200 was submitted after the investigation had been made.

The budget for 1915 made provision for this work after the allowance had been recommended by the Budget Committee. I do not regard it as being practical to award this contract by competitive bidding, for the reason that the process under this work is, I am informed, patented, and the results obtained by one firm are superior to anything else of its kind.

The courts will adjourn for the summer in a short time, and it is my desire to be permitted to comply with the requests of the Judges during the coming summer vacation. I therefore request your immediate consideration of this request. Very truly yours,

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

Alderman Diemer, in connection therewith, offered the following resolution, and moved its adoption:

Resolved, That, in pursuance of the provisions of section 419 of the Greater New York Charter, the President of the Borough of Queens be and he is hereby authorized and empowered to enter into a contract, without public letting, to correct the acoustical conditions in the room used by Part 1 of the Supreme Court, Queens County, in the County Court House, at a cost not to exceed two thousand two hundred dollars ($2,200).

The Vice-Chairman put the question whether the Board would agree to adopt said resolution.

Which was unanimously decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Dixson, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Rosenblum, Schweickert, Smith, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly. President Pounds, President Marks, by Ralph Folks, Commisioner of Public Works—64.

The Vice-Chairman laid before the Board the following communication from the Armory Board:

No. 1939.

Armory Board—Resolution Requesting Issue of Special Revenue Bonds, $25,000, for Removal of 15th Street Sallyport and the Reconstruction Thereof at the 14th Infantry Armory.

Office of the Secretary, the Armory Board, Basement, Suite 6, Hall of Records, New York, June 24, 1915.

To the Honorable the Board of Aldermen:

Gentlemen—The following is a copy of a resolution adopted at a meeting held June 17, 1915:

Resolved, That the Armory Board hereby requests the Board of Aldermen to direct the Board of Estimate and Apportionment to authorize an issue of Special Revenue Bonds, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, in the sum of twenty-five thousand dollars for the removal of the 15th street sallyport, and the reconstruction thereof, etc., at the 14th Infantry Armory, 8th avenue and 15th street, Borough of Brooklyn.

I was further directed to request your Honorable Board to consider the above resolution at the earliest possible date, owing to the fact that the entire side wall on the 15th street side of this armory (being about 125 feet by 30 feet in height, containing two heavy towers), having been removed, leaving the entire building on this side exposed, other than a temporary wooden enclosure.

The above condition, as stated, on said wall and tower, was caused by defective foundations, in that the piles upon investigation were found to be absolutely obliterated, having rotted away, causing a settlement of this entire wall. This, of course, had to be removed at once, owing to its extremely dangerous condition, having moved some 12 or 14 inches out of plumb and might have fallen at any time.

Under these urgent conditions the Board desires as prompt action as is consistent with the duties of your Honorable Board. Respectfully.

C. D. RHINEHART, Secretary.

Which was referred to the Committee on Finance.

The Vice-Chairman laid before the Board the following communication from the President of the Borough of Richmond:

No. 1940.

An Ordinance in Relation to Burning of Grass, Brush, Waste or Forest Lands in The City of New York.

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, June 24th, 1915.

Board of Aldermen, City Hall, N. Y. City:

Dear Sirs—I enclose to you herewith Ordinance relating to the burning of grass, etc., which I would ask be introduced at the next meeting of the Board.

Serious damage is continually being done to property of people of this Borough because of fires in brush and in the woods and are usually started by children.

It is earnestly hoped that action will be taken on this ordinance before the summer recess. Respectfully yours.

C. J. McCORMACK, President of the Borough of Richmond.

AN ORDINANCE in relation to burning of grass, brush, waste or forest lands in The City of New York.

Be it Ordained by the Board of Aldermen of The City of New York as follows:

1. A person who sets fire to, or assists another to set fire to any fallows, stumps, logs, brush, fallen or standing timber, woods, waste or forest lands, grain, grass, leaves, refuse or crops belonging to another person; or

2. Sets fire to his own fallows, stumps, logs, brush, fallen or standing timber, woods, waste or forest lands, grain, grass, leaves, refuse or crops during a heavy wind or under such circumstances that the property of another is endangered or

damaged thereby or who fails to watch or cause such fire to be watched until extinguished; or

3. Negligently suffers any fire upon his own lands to extend beyond the limits thereof,

Shall, upon conviction thereof by a City Magistrate, be liable to a fine of not more than $50, or less than $5, or to imprisonment for a term of not more than ten days, or both.

One-half of the fine received shall be paid to the person upon whose information the conviction was secured.

Which was referred to the Committee on General Welfare.

The Vice-Chairman laid before the Board the following communication from the Department of Parks, Borough of Queens:

No. 1941.

Commissioner of Parks, Borough of Queens—Request for Permission to Contract for a Freight Siding in Forest Park Without Public Letting.

The City of New York, Department of Parks, Borough of Queens, June 24th, 1915.

The Honorable, the Board of Aldermen, City Hall, New York City:

Sirs—Permission is hereby requested to contract without public letting for a freight siding in Forest Park.

The reason for this request is that the connection between the siding in the park is to be made with the Myrtle Ave. line of the Brooklyn Rapid Transit.

It is proposed to build the trestle and to construct most of the siding with departmental labor. Ties and rails in sufficient quantity to provide straight parts of the siding have been obtained through the Sinking Fund Commission from the Department of Bridges. The Brooklyn Rapid Transit Company has but one form of contract which provides for a charge for actual cost of labor and material plus 15 per cent. for supervision. It will be necessary for the Department to contract for the cutout or switch in Myrtle Ave. and for the short spur of track into the park for the curved track for poles and trolley, and other incidentals to enable the company to operate its cars on the spur.

The estimate of work to be done by the B. R. T. Company is approximately $3,500. It is necessary that this work be done without delay, since the Department has contracted for the delivery of this coal for the balance of the year 1915 in carload lots, and it will be necessary to have temporary connections with the B. R. T. by September 1st, in order that deliveries of coal under the contract may be made.

I have the honor to remain, respectfully,

JOHN E. WEIER, Commissioner.

Which was referred to the Committee on Public Letting.

The Vice-Chairman laid before the Board the following communication from the District Attorney of Kings County:

No. 1942.

District Attorney, Kings County—Request for Special Revenue Bonds, $2,500, for the Payment of Deficiencies in Appropriation Accounts.

District Attorney's Office, County of Kings, Brooklyn, New York, June 28, 1915.

Honorable Board of Aldermen, City of New York:

Gentlemen—Pursuant to subdivision 8 of section 188 of the Greater New York Charter, I hereby request the adoption of a resolution by the Board of Aldermen requesting the Board of Estimate and Apportionment to authorize the Comptroller to issue special revenue bonds to the amount of $2,500, same to be used for the payment of deficiencies in appropriation accounts, other than those classed as salaries, in the office of the District Attorney, Kings County, for the year 1915. The following statement of all such accounts at the close of business May 31st, 1915, shows the necessity for this request:

Statement, May 31st, 1915.

Account.		Appropriation.	Expended.	Bills on Hand, Unpaid.	Total Charges.	Net Balance.	Estimated Expenditures, 12 Months.	Excess of Expenditures Over Appropriations.
3383	Fees and Commissions	$5,150 00	$2,177 11	$700 00	$2,877 11	$2,272 89	$6,900 00	$1,750 00
3384	Supplies	2,400 00	1,348 78	350 00	1,698 78	701 22	4,075 00	1,675 00
3385	Equipment	1,000 00	638 13	.....	638 13	361 87	360 00	.....
3386	Transportation	2,000 00	1,182 78	.....	1,182 78	817 22	2,790 00	790 00
3387	Communication	1,000 00	301 69	200 00	501 69	498 31	1,200 00	200 00
3388	Contingencies, General	1,100 00	798 68	.....	798 68	301 32	1,915 00	815 00
3389*	Contingencies, Extradition	1,500 00	1,497 56	.....	1,497 56	2 44	.....	.....
		$14,150 00	$7,944 73	$1,250 00	$9,194 73	$4,955 27	$17,240 00	$5,230 00

* Special revenue bonds already issued to replenish Account No. 3389, Contingencies, Expenses in Extradition of Fugitive Criminals.

Funds should at all times be available in Account No. 3386, Transportation, and Account No. 3388, Contingencies, General, as charges against these accounts in most cases, represent the outlay of cash by the claimants, with the understanding that reimbursement will be made without unnecessary delay. Yours very truly,

HERSEY EGGINTON, Acting District Attorney.

Which was referred to the Committee on Finance.

The Vice-Chairman laid before the Board the following communications from the Board of Estimate and Apportionment:

No. 1943.

Board of Estimate and Apportionment—Certified Copy of Resolution Authorizing Issue of Corporate Stock, $9,225, for Payment of Salaries, Temporary Employees, Construction, Corporate Stock Force, Department of Bridges, During the Year 1915.

City of New York, Board of Estimate and Apportionment, Office of the Secretary Municipal Building, June 29, 1915.

To the Honorable the Board of Aldermen:

Gentlemen—I transmit herewith certified copies of two resolutions adopted by the Board of Estimate and Apportionment June 25, 1915, relative to the issues of corporate stock, as follows:

Cal. No. 147A. Authorizing the issue of $9,225 corporate stock for the purpose of providing means for the payment by the Department of Bridges during the year 1915 of Salaries Temporary Employees, Construction, Corporate Stock Force.

Cal. No. 147B. Amending resolution adopted June 3, 1910, which authorized the issue of $445,000 corporate stock for required improvements in connection with the Brooklyn Terminal of the Manhattan Bridge, namely, the construction of subways in terminal and track work therein; upper deck structures from bridge abutment to Nassau street and track work thereon, etc., by reducing said amount to $435,775.

I also enclose copy of report of the Committee on Corporate Stock Budget relative thereto. Yours very truly,

JOSEPH HAAG, Secretary.

Resolved, That, the Board of Estimate and Apportionment pursuant to the provisions of section 47 of the Greater New York Charter as amended, hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding nine thousand two hundred and twenty-five ($9,225) dollars, in addition to the amount heretofore authorized, for the purpose of providing means for the payment by the Department of Bridges, during the year 1915, of Salaries, Temporary Employees, Construction, Corporate Stock Force; said fund to be disbursed in accordance with the 1915 Budget Schedule 2752C, and that when authority therefor shall have been obtained from the Board of Aldermen the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purpose aforesaid.

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 25, 1915.

JOSEPH HAAG, Secretary.

In connection herewith, Alderman Dowling offered the following resolution, and moved its adoption:

AN ORDINANCE providing for an issue of Corporate Stock of The City of New York to an amount not exceeding nine thousand two hundred and twenty-five dollars ($9,225), in addition to the amount heretofore authorized for the purpose of providing means for the payment by the Department of Bridges during the year 1915, of Salaries, Temporary Employees, Construction, Corporate Stock Force.

Be it Ordained by the Board of Aldermen of The City of New York, as follows:

Section 1. The Board of Aldermen hereby approves of and concurs in the following resolution, adopted by the Board of Estimate and Apportionment June 25, 1915, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

Resolved, That the Board of Estimate and Apportionment pursuant to the provisions of section 47 of the Greater New York Charter, as amended, hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding nine thousand two hundred and twenty-five dollars ($9,225), in addition to the amount heretofore authorized, for the purpose of providing means for the payment by the Department of Bridges, during the year 1915, of Salaries, Temporary Employees, Construction, Corporate Stock Force; said fund to be disbursed in accordance with the 1915 Budget Schedule 2752C, and that when authority therefor shall have been obtained from the Board of Aldermen the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purpose aforesaid.

The Vice-Chairman put the question whether the Board would agree to adopt said ordinance.

Which was unanimously decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eagan, Eichhorn, Ferguson, Ferrand, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connnolly, President Mathewson, President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-president—54.

No. 1944.

Board of Estimate and Apportionment—Certified Copy of Resolution Amending Resolution Authorizing Issue of Corporate Stock for Required Improvements in Connection with Brooklyn Terminal of Manhattan Bridge.

Resolved, That, subject to the concurrence herewith by the Board of Aldermen the following resolution adopted by the Board of Estimate and Apportionment on June 3, 1910, and concurred in by the Board of Aldermen on June 28, 1910:

"Resolved, That pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to the amount of *four hundred and forty-five thousand dollars* ($445,000) to provide means for required improvements in connection with the Brooklyn Terminal of the Manhattan Bridge, namely, the construction of subways in terminal and track work therein; upper deck structures from bridge abutment to Nassau street and track work thereon; subway loop on bridge property; and roadway paving and curbs, and that when authority therefor shall have been obtained from the Board of Aldermen the Comptroller is authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding *four hundred and forty-five thousand dollars* ($445,000); the proceeds whereof to be applied to the purposes aforesaid,"

—be *amended* by rescinding the sum of *nine thousand, two hundred and twenty-five dollars* ($9,225) of said authorization, thereby reducing the authorization to the sum of *four hundred and thirty-five thousand, seven hundred and seventy-five dollars* ($435,775).

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 25, 1915.

JOSEPH HAAG, Secretary.

City of New York, Board of Estimate and Apportionment, Municipal Building, Bureau of Contract Supervision, June 14, 1915.

To the Board of Estimate and Apportionment:

Gentlemen—On April 30, 1915, you referred to the Committee on Corporate Stock Budget a communication from the Commissioner of Bridges, dated April 26, 1915, requesting an issue of corporate stock amounting to $12,925. This request was verbally amended reducing the amount to $9,225.

The Bureau of Contract Supervision reports upon the amended request as follows:

"The Budget for 1915 carried a schedule allowance of $75,000 for the Corporate Stock Employees in the Engineering Force of the Bridge Department. This amount was divided in the budget as follows:

For the Chief Engineer's Office	$11,375 00
For Salaries of Construction Force	57,450 00
For Wages of Construction Force	6,175 00
Total	$75,000 00

"At the time the budget was made it was agreed that the schedule for Account No. 2747C, carrying the $57,450 allowance for the construction force, would have a schedule set up in tentative form. It was understood that this would be modified before the first of the year 1915, to make it accord with the needs of the department.

"On December 22, 1914, the Bridge Commissioner submitted a modified schedule which totaled $57,450, but which was divided between salaries of temporary employees and salaries of regular employees—$27,900 of the schedule was set up for temporary employees.

"It was the understanding at that time that the department would not exceed the $75,000 allowance in the budget. One purpose of setting up temporary schedule was to provide temporary employment through the winter for engineers and others on the construction force whose services would not be required after the expiration of the various contracts upon which the engineers and other employees were engaged.

"There has been delay in the execution of certain contracts that were under way. For instance, the contractor engaged on the contract on the Manhattan approach to the Manhattan Bridge defaulted on his contract. This work has since been taken up by the sub-contractors, but there has been a long delay which will make it necessary for the Bridge Department to divide engineering supervision for a much longer period than was anticipated.

"The same engineers who are engaged upon the supervising of this contract will have charge of the recently awarded contract of the equipment of the westerly tracks of the upper deck of the Manhattan Bridge for use by the Manhattan Bridge 3 Cent Line road. This contract was awarded under date of May 12th and the contractor has 180 working days from that date in which to complete the work.

"A part of the force included in the original temporary schedule is not engaged upon corporate stock work, but upon maintenance. The positions of such members of the force have been excluded from the new schedule, as submitted by the Bridge Commissioner on April 26, 1915. The corporate stock schedule that was in effect the first of the year included the positions as follows, which the Commissioner proposed to shift to tax levy, special revenue bond and bridge levy funds:

"Assistant Engineer at $2,100, shifted to special revenue bond funds.
"Assistant Engineer at $1,800, shifted to bridge revenue.
"Leveler at $1,350, shifted to bridge revenue.
"Transitman at $1,800, shifted to bridge revenue and reduced to $1,500.
"The positions which are shifted from corporate stock, bridge revenue and

special revenue bond funds should not be regarded as permanent. The work of the Assistant Engineer at $2,100, which was shifted to special revenue bond funds, will be finished as soon as the work of repairing and repainting certain viaducts under the jurisdiction of the Borough President of Manhattan is completed. Revenue bonds were authorized to provide funds to have this work done by the Bridge Department.

"The shift of corporate stock employees to the bridge revenue and special revenue bond schedules will not increase the total of the bridge revenue and special revenue bond schedules, as there is an offsetting reduction in lines for Painter at $4 per day, and by eliminating the line of Master Mechanic at $2,400 for one month and Superintendent of Lights at $2,200 for 4 months, and by using some balance unassigned. A Foreman Bridge Mechanic at $1,500 is eliminated to provide for a Transitman reduced from $1,650 to $1,500 and shifted to bridge revenue.

"While there will be no increase in the other schedules, due to the proposed modifications, it will be necessary to increase the corporate stock schedules for temporary employees to the amount of $9,225, in order to grant the Bridge Commissioner's request.

"This will not mean an increase in the number of Engineers, but an increase in the time allowed.

"In fact there will be a reduction in the number of Engineers, as the following positions will be dropped:

Two Assistant Engineers at	$4,000 00
One Assistant Engineer at	3,000 00
One Assistant Engineer at	2,400 00
Two Assistant Engineers at	2,250 00
One Transitman at	1,800 00
One Draftsman at	1,800 00
One Toolman at	1,200 00
One Rodman at	1,200 00
One Axeman at	900 00

"In addition to the positions that will be dropped absolutely there will be a number of other employees who will have only part time for the remainder of the year. Instead of dropping all the employees for whom there is not a full time provision, some of the Draftsmen and Transitmen will alternate in the work in order to distribute the opportunity for employment as much as possible. The $9,225 additional allowance will provide sufficient funds to extend the schedule time of the Engineers whose services are necessary in the supervision of existing contracts. The total of the temporary schedule now in effect is $27,900 and will be increased to $37,125.

"There is a vacant position of Chief Engineer at $10,000. Half of the salary of this position is chargeable to corporate stock. There does not appear to be any necessity for filling this position, and it may be that the proposed increase of $9,225 can be partially offset later on by the elimination of this vacancy. If the request of the Bridge Commissioner is granted, there will be an allowance of $37,125 for temporary employees and an allowance for regular employees chargeable to all funds as follows:

Chief Engineer at	$10,000 00
Assistant Engineer, 1 at	6,000 00
Assistant Engineer, 4 at	5,000 00
Assistant Engineer, 3 at	4,000 00
Assistant Engineer, 2 at	3,500 00
Assistant Engineer, 3 at	3,000 00
Assistant Engineer, 3 at	2,400 00
Assistant Engineer, 1 at	2,100 00
Assistant Engineer, 1 at	1,800 00
Transitman, 1 at	1,800 00
Draftsman, 7 at	1,800 00
Leveler, 1 at	1,350 00
Rodman, 1 at	1,200 00
Rodman, 1 at	1,050 00
Toolman, 1 at	1,200 00
Axeman, 1 at	900 00
Steel Inspector, 4 at	1,650 00"

In view of the apparent necessity for the continuation of the services of engineers who are engaged upon supervision of unfinished contracts, we recommend the modification of the schedule in the reduced amount of $9,225. It will not be necessary to make the new authorization of corporate stock to provide for the increase in schedule. The Commissioner of Bridges has consented to a rescindment of $9,225 in Account C. D. B. 47 for the construction of the Manhattan Bridge, Brooklyn Terminal, Subway, Roadway and Trackwork.

Attached hereto are resolutions, which, if adopted, will rescind $9,225 and reauthorize a similar amount applicable to the payment of salaries. Also proper schedule resolutions for the modification of the schedules are attached. Respectfully,

WM. A. PRENDERGAST, Comptroller; O. GRANT ESTERBROOK, Acting President, Board of Aldermen; LEWIS H. POUNDS, President, Borough of Brooklyn; DOUGLAS MATHEWSON, President, Borough of The Bronx; Corporate Stock Budget Committee.

Which was referred to the Committee on Finance.

No. 1945.

Board of Estimate and Apportionment—Resolution Establishing the Grade of Position of Tabulating Machine Operator, at $720 per Annum, in the Department of Water Supply, Gas and Electricity.

City of New York, Board of Estimate and Apportionment, Office of the Secretary, Municipal Building, June 29, 1915.

To the Honorable the Board of Aldermen:

Gentlemen—I transmit herewith certified copies of four resolutions adopted by the Board of Estimate and Apportionment June 25, 1915, relative to the establishment of grades of positions in various departments, as follows:

	Department and Position.	Rate of Compensation.	Number of Incumbents.
Cal. No. 26B.	Water Supply, Gas and Electricity—Tabulating Machine Operator..	$720 00 per annum.	One.
Cal. No. 29B.	Water Supply, Gas and Electricity—Supervising Engineer	1,800 00 per annum.	One.
Cal. No. 38.	Education—Janitors of various public schools at rates as set forth in said resolution.		
Cal. No. 49.	Office, President, Borough of The Bronx—Asphalt Worker	2 80 per diem.	Unlimited.

I also enclose copies of reports of the Committee on Salaries and Grades relative thereto. Yours very truly, JOSEPH HAAG, Secretary.

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 the establishment in the Department of Water Supply, Gas and Electricity of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Tabulating Machine Operator	$720 00	One

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 25, 1915. JOSEPH HAAG, Secretary.

City of New York, Board of Estimate and Apportionment, Municipal Building, June 14, 1915.

To the Board of Estimate and Apportionment:

Gentlemen—On June 4, 1915, the Commissioner of Water Supply, Gas and Electricity requested authority, pursuant to Resolution II-(c) of the 1915 Budget, to fill a vacancy in his office of Tabulating Machine Operator at $900 per annum. The Bureau of Standards reports theeron as follows:

"In Salaries, Regular Employees, Administration, 2152TW, Audit and Accounts, a vacancy of Tabulating Machine Operator at $900 exists. It is proposed to fill this position by appointment from an eligible list.

"The tentative specifications for the work of operating tabulating machines provide for a salary range from $720 to $960. The nearest established grade to the minimum in this office is $900."

In view of the foregoing report we recommend the adoption of the attached resolution granting the request, with the understanding that the rate be reduced to $720 as soon as established, and a further resolution recommending the establishment of the position of Tabulating Machine Operator at $720. Respectfully,

WM. A. PRENDERGAST, Comptroller; O. GRANT ESTERBROOK, Acting President of the Board of Aldermen, Committee on Salaries and Grades.

No. 1946.

Board of Estimate and Apportionment—Resolution Establishing the Grade of Position of Supervising Engineer, at $1,800 per Annum, in the Department of Water Supply, Gas and Electricity.

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, the establishment in the Department of Water Supply, Gas and Electricity of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Supervising Engineer	$1,800 00	One

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 25, 1915. JOSEPH HAAG, Secretary.

City of New York,, Board of Estimate and Apportionment, Municipal Building, Bureau of Contract Supervision, June 19, 1915.

To the Board of Estimate and Apportionment:

Gentlemen—On March 12, 1915, you referred to the Committee on Salaries and Grades a communication from the Commissioner of Water Supply, Gas and Electricity, requesting the establishment in his department of the grades of Supervising Engineer at $2,100 and $1,800, for one incumbent each.

The Bureau of Contract Supervision reports thereon as follows:

"The two positions are requested as a substitute for one position of Engineman at $2,500, and one position of Engineman at $1,800.

"The budget for 1915 contained positions as follows:

"Supervising Engineer at $2,500.

"Engineman at $2,500.

"Supervising Engineman at $1,800.

"Enginemen (3) at $1,800.

"Enginemen (24) at $1,750.

"The position of Supervising Engineer at $2,500 is held by Frederick W. Hancock.

"The position of Engineman at $2,500 was held by William A. Drew.

"One of the five positions at $1,800 was held by Harold H. Havill.

"The Municipal Civil Service Commission contended that the duties of the position held by Mr. Drew and Mr. Havill were not the duties of Enginemen but the duties of Supervising Engineers. The Commission objected to the further employment of the Enginemen in these positions.

"A promotion examination for Supervising Engineer was held and both Mr. Drew and Mr. Havill failed to pass. Thereupon they were reduced to Enginemen at $4.50 per day.

"The reduction of Mr. Drew and Mr. Havill left vacant the positions of Enginemen at $2,500 and $1,800.

"The Department of Water Supply, Gas and Electricity in meeting the objection of the Civil Service Commission, made the pending request to change the title of these two positions of Supervising Engineer and to reduce one of them from $2,500 to $2,100.

"It was proposed by the Department, George H. Williams, who passed first at the recent examination for Supervising Engineer, should be appointed to the new position at $2,100, but perform the duties formerly performed by Mr. Drew at $2,500.

"It was proposed that William R. Massie, an Engineman, at $1,750, should be permitted to take the new position of Supervising Engineer at $1,800 and perform the duties previously performed by Mr. Havill.

"The Bureau of Contract Supervision has inquired into the necessity for filling these vacant positions.

"It was found that Mr. Hancock, the Supervising Engineer, at $2,500, could and properly should perform the engineering duties of the proposed new position at $2,100.

"The duties of the former incumbent of the $2,500 position, which is now requested under the title of Supervising Engineer at $2,100, are stated as follows:

"'*Clerical:*

"'In charge of all work prepared and compiled by Clerks, Engineers. Fuel Inspectors and other employes connected with the Ridgewood office, Supervision of contracts for installing pumping engines, boilers, steam piping, etc., and coal contracts for Ridgewood and Line stations. Assistant to Supervising Engineer in charge of Ridgewood and Line stations in his absence.'

"'*Engineering:*

"'Making efficiency tests on coal, boilers, engines, slip tests on engines at Ridgewood and Milburn. Preparation of all plans and specifications for minor work.

"'Test of weir over which water is supplied by the Queens County Water Company contract. Erecting and constructing engines, boilers, steam piping and repair work done to other machinery under contract at Ridgewood and weighing all coal delivered to Department. Compiling quarterly and annual reports of work accomplished.'

"It appears that more than one-half the duties performed by Mr. Drew were of a clerical nature and should be assigned to one of the several clerks available for such work.

"The engineering work has been largely reduced in the present year.

"One of the duties stated is the test of the weir over which water was supplied by the Queens County Water Company contract. As water is no longer purchased from this company there is no testing to be done.

"Another duty which was stated as belonging to this position is making slip tests on engines at Ridgewood and Milburn stations. This work is now done by Pitometer division.

"The stated duty of making efficiency tests on coal would be important if pumping was to be continued at Milburn and Ridgewood. However, the Department has already opened bids for practically all of its coal for 1915 and for three months of 1916, so that the supply will last almost until the time the Catskill water is available.

"The necessary engineering duties can be performed, as already stated, by Mr. Hancock.

"The duties of the former incumbent of the $1,800 position, which is now requested under the title of Supervising Engineer at $1,800, were stated as follows:

"'Superintending repairs and improvements of boilers, engines and pumping machinery. Directing operation and maintenance of same at line stations from Gravesend to Smiths Pond—about twenty pumping stations. Make estimates of cost of labor and materials for all repairs and keep records of same. Direct operation of repair gangs and record their time.'

"The services noted fall within grade 2 of the tentative specifications of the Bureau of Standards for this character of work, the minimum rate of compensation for which grade is $1,800 per annum. Approval of the Commissioner's request for the establishment of the position of Supervising Engineer at $1,800 for one incumbent appears, therefore, to be proper.

"This amounts to a mere change of title to meet Civil Service requirements.

"This Bureau recommends to the Commissioner of Water Supply, Gas and Electricity that the position of Engineman at $2,500 be abolished and that there be no substitution of a position of Supervising Engineer at $2,100. The Commissioner has agreed that there is no necessity for the position at $2,100.

"If this position were abolished Mr. Williams would be given the title of Supervising Engineer at $1,800, and would assist Mr. Hancock, and Mr. Massie would be promoted from his present position at $1,750 to occupy the place held by Mr. Williams.

"Mr. Williams was recently promoted from $1,750 to $1,800.
"Mr. Massie was recently promoted from $4.50 per day to $1,750."

In view of the foregoing, we recommend that the request of the Commissioner for the establishment of the position of Supervising Engineer at $2,100 be *denied*. We further recommend that the request for the establishment of the position of Supervising Engineer at $1,800 for one incumbent be approved, as set forth in the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; O. GRANT ESTERBROOK, Acting President, Board of Aldermen, Committee on Salaries and Grades.

No. 1947.

Board of Estimate and Apportionment—Resolution Establishing the Grade of Positions of Janitors of Various Public Schools, at Rates as Set Forth.

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 salaries 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 Department 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, that 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 96, Queens, per month	$75 00
Janitor, Public School 1, Richmond, per annum less $221	3,204 00
Janitor, Public School 22 (new), Richmond, for care of Public School 22 (old), Richmond, per annum	120 00

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 25. 1915. JOSEPH HAAG, Secretary.

City of New York, Board of Estimate and Apportionment, Municipal Building, Committee on Education, June 14, 1915.

To the Board of Estimate and Apportionment:

Gentlemen—On June 9, 1915, the Board of Education requested establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of rates of compensation for the janitors of the Washington Irving High School, Murray Hill Vocation School, Bushwick High School, P. S. No. 96, Queens, and P. S. Nos. 1 and 22, Richmond. In connection therewith we report as follows:

For the janitor of the Washington Irving High School, an allowance of $60 is proposed to compensate him for engaging the services of a watchman during the month of June, 1915, to look after the paintings loaned by the Metropolitan Museum of Art to the Washington Irving High School for exhibition in that school. In this connection, it should be noted that janitorial compensation for extra activities in schools under the indirect system is ordinarily based upon certain scheduled rates depending on the activities conducted in the school. In the case of the Washington Irving High School, owing to the extraordinary and varied uses to which it was contemplated, the building would be put, it was deemed advisable to make an exception by fixing a single rate of janitorial compensation to cover all activities. The rate of $22,480 per annum fixed for this building is the largest and most liberal of any public school rate in the City. In view of this fact we are of the opinion that the proposed additional allowance should not be granted.

For the Murray Hill Vocational School, additional compensation in the sum of $600 per annum is proposed for the janitor to permit him to employ a night watchman. It is stated that the need of a watchman is urgent, owing to the fact that the siuation of this building with respect to the neighboring dwellings make it easily accessible, and in consequence many burglaries have recently been committed in the premises, resulting in thefts of vocational material stored in said building. The attention of the Superintendent of School Buildings, Mr. C. B. J. Snyder, has been called to this matter. He will attempt to remedy the evil, thereby obviating the necessity of employing a watchman.

For the Bushwick High School a temporary rate of $720 per month is proposed. The janitor of this school, who is under the indirect system, has been suspended pending trial on charges, and an Assistant Supervisor of Janitors assigned to this building. Inasmuch as the latter is being paid for in the capacity of Supervisor, Civil Service complications have arisen with regard to the payment of the janitorial force at the Bushwick High School, due to the fact that they are not Civil Service employees. To remedy this the Board of Education has temporarily assigned the janitor of Public School No. 106, Brooklyn, to the Bushwick High School and proposes a temporary rate of $720 per month for him. Of this amount the sum of $670 is to pay the present janitorial force in the Bushwick High School, and $50 to compensate the janitor assigned. As a matter of fact the Assistant Supervisor of Janitors will still remain in charge, and therefore the allowance of $50 for the janitor would seem to be merely for the purpose of enabling the Board of Education to get around the Civil Service complications and permit the payment of compensation to the janitorial force. As there has already been fixed for this school the temporary rate of $8,540 per annum ($711.66 per month), we suggest that it be used in lieu of the $720 rate proposed.

For new Public School 96, Queens, a temporary rate of $75 per month is proposed for the janitor assigned to the building, pending its occupancy. For the janitor of Public School 22 (new), Richmond, an additional allowance of $120 per annum is proposed for the care of the old building which is now used as a storehouse by the Building Bureau of the Department of Education. For Public School 1, Richmond, a temporary rate of $3,204 per annum, less rent allowance of $221 is proposed.

We recommend the adoption of the attached resolution approving the request only as to the rates proposed for P. S. No. 96, Queens; P. S. Nos. 1 and 22, Richmond.

Respectfully, WM. A. PRENDERGAST, Comptroller; O. GRANT ESTERBROOK, Acting President, Board of Aldermen, Committee on Salaries and Grades.

Which were severally referred to the Committee on Salaries and Offices.

No. 1948.

Board of Estimate and Apportionment—Resolution Establishing the Grade of Position of Asphalt Worker, at $2.80 per Diem, in the Office of the President of the Borough of The Bronx.

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 the establishment in the office of the President of the Borough of The Bronx of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Diem.	Number of Incumbents.
Asphalt Worker	$2 80	Unlimited

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 25. 1915. JOSEPH HAAG, Secretary.

City of New York, Board of Estimate and Apportionment, Municipal Building, Bureau of Standards, June 21, 1915.

To the Board of Estimate and Apportionment:

Gentlemen—Under date of June 3, 1915, the President of the Borough of The Bronx requested the establishment of a grade of position of Asphalt Worker at $2.80 per diem in his office. The Bureau of Standards reports thereon as follows:

"Asphalt Workers are divided in classes in accordance with the difficulty of the work, and are called Rakers, Tampers, Smoothers, etc. Investigation shows that the prevailing rate of wages paid by the Barber Asphalt Paving Co., the Borough Asphalt Co., the Cranford Co., the Brooklyn Alcatraz Asphalt Co. and the Uvalde Asphalt Paving Co. for Tampers is $2.80 per diem, and this rate is paid in the offices of the Presidents of the Boroughs of Manhattan and Brooklyn. The request is made in order that the rate paid in The Bronx may conform with that in the above departments."

In view of the above report we recommend the adoption of the attached resolution granting the request. Respectfully,

WM. A. PRENDERGAST, Comptroller; O. GRANT ESTERBROOK, Acting President, Board of Aldermen; Committee on Salaries and Grades.

In connection herewith President Mathewson offered the following resolution and moved its adoption:

Whereas, The Board of Estimate and Apportionment adopted the following resolution at a stated meeting held June 25, 1915:

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 the establishment in the office of the President of the Borough of The Bronx of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Diem.	Number of Incumbents.
Asphalt Worker	$2 80	Unlimited

Resolved, That the Board of Aldermen hereby approves of and concurs in the above resolution, and fixes the salary of said position as set forth therein.

The Vice-Chairman put the question whether the Board would agree to adopt said resolution.

Which was unanimously decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eagan, Eichhorn, Ferguson, Ferrand, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Schweickert, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connolly, President Mathewson, President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—54.

The Vice-Chairman laid before the Board the following communication from the Board of Inebriety:

No. 1949.

Board of Inebriety—Request for Special Revenue Bonds, $5,653, to Meet Deficit in Appropriation for the Current Year.

Board of Inebriety of The City of New York, 300 Mulberry Street, New York, June 28th, 1915.

Hon. GEORGE MCANENY, *President, Board of Aldermen, New York City:*

Sir—I am directed by the Board of Inebriety to request the Board of Aldermen to authorize the issue of revenue bonds in an amount not exceeding $5,653 to meet a deficit in the appropriation for the current year.

It will be recalled that $6,000 was deducted from the supply funds of the Board of Inebriety after the tentative Budget was prepared, and it would seem that no provision whatever was made for electric current and for the maintenance of the Medical Director.

It is estimated that the deficit on food supplies will be at least $1,500, and that an additional $358 will be required to provide sufficient forage until our own crops are available. The allowance for fuel, of $200, is entirely inadequate. The additional sum of $394 requested for botanical and agricultural supplies will be far more than offset by the return in farm produce.

Excluding salaries, the total cost of the institution for the current year, including the revenue bonds requested, will be only $15,363. This does not take into account the amount contributed by patients and the value of the produce to be shipped to other institutions. Considering that a daily average of about 90 patients have been cared for, it would seem that the cost is very reasonable.

A detailed statement of the status of the appropriation as at May 31st is enclosed.

Respectfully, JOHN A. KINGSBURY, President.

BOARD OF INEBRIETY.

Statement of the Condition as at the Close of Business May 31, 1915, of All Appropriation Accounts for the Current Year, and of Appropriation Accounts for Prior Years Having Unexpended Balances.

	1915 Appropriations (Other Than Salaries).	Appropriation.	Expenditures (5 Months).	Balance.	Deficit.	Additional Deficit for Remainder of Year.	Total Deficit.
2686	Food Supplies	$6,000 00	$3,077 63	$2,922 37	.....	$1,500 00	$1,500 00
	Forage and Veterinary Supplies	100 00	254 60	.....	$154 60	203 40	358 00
	Fuel Supplies	200 00	311 61	.....	111 61	328 39	440 00
	Office Supplies	150 00	143 84	6 16	.....	100 00	100 00
	Medical and Surgical Supplies	50 00	.....	50 00	.....	.....	.....
	Laundry, Cleaning and Disinfecting Supplies	50 00	111 70	.....	61 70	50 30	112 00
	Botanical and Agricultural Supplies	600 00	693 44	.....	93 44	200 56	294 00
	General Plant Supplies	50 00	66 39	.....	16 39	50 61	67 00
	Household Equipment	50 00	829 06	.....	779 06	59 94	839 00
	Motorless Vehicles and Equipment	100 00	.....	100 00	.....	.....	.....
	Wearing Apparel	100 00	17 10	82 90	.....	.....	.....
	Live Stock	200 00	20 80	179 20	.....	.....	.....
	General Plant Equipment	130 00	153 72	.....	23 72	50 28	74 00
	Materials	100 00	130 88	.....	30 88	100 12	131 00
	General Repairs	100 00	98 77	1 23	.....	300 00	300 00
	Carfare	750 00	279 79	470 21	.....	.....	.....
	Shoeing Horses and Veterinary Services	200 00	69 03	130 97	.....	.....	.....
	Communication	160 00	62 43	97 57	.....	200 00	200 00
	Expressage and Deliveries	100 00	153 09	.....	53 09	124 91	178 00
	County Taxes for City Farm	500 00	.....	500 00	.....	.....	.....
	Contingencies	30 00	9 45	20 55	.....	150 00	150 00
	Light, Heat and Power	.....	196 28	.....	196 28	403 72	600 00
	Repairs to Auto and Garage Charges	.....	.....	.....	.....	300 00	300 00
		$9,720 00	$6,679 61	$4,561 16	$1,520 77	$4,122 23	$5,643 00

Which was referred to the Committee on Finance.

The Vice-Chairman laid before the Board the following communication from the Nassau Electric Railway Company:

No. 1950.

Car License Report of the Nassau Electric Railroad Company; Brooklyn, Queens County and Suburban Railroad Company; Coney Island and Gravesend Railway Company; Coney Island and Brooklyn Railroad Company; Brooklyn Heights Railroad Company, as Lessee of the Brooklyn City Railroad Company, and the Brooklyn Heights Railroad Company.

The Nassau Electric Railroad Company, 85 Clinton Street, Brooklyn, N. Y., Office of Secretary, June 28th, 1915.

Mr. P. J. SCULLY, *City Clerk, The City of New York,* Municipal Building, New York:

Dear Sir—I enclose, herewith, Car License Report of The Nassau Electric Railroad Company.

Kindly acknowledge receipt. Yours truly,

J. H. BENNINGTON, Secretary.

Report to the Comptroller of the City of New York of the Number of Cars Intended to be Run or Operated During the Year Ending May 31, 1916.

Car License Fees.

534 Cars, at $20 ..... $10,680 00

State of New York, City and County of New York, ss.:

J. H. Bennington, being duly sworn, says that he is the Secretary of The Nassau Electric Railroad Company, that the above or annexed statement showing car license fees due the City of New York is a just and true statement of the greatest number of cars intended to be run or operated at any one time by this company for and during the year ending May 31, 1916. J. H. BENNINGTON.

Sworn and subscribed to before me this 26th day of June, 1915. CHAS. W. BROWN, Notary Public, Kings County, No. 341.

Brooklyn, Queens County and Suburban Railroad Company, 85 Clinton Street, Brooklyn, N. Y., Office of Secretary, June 28th, 1915.

Mr. P. J. SCULLY, *City Clerk, The City of New York,* Municipal Building, New York:

Dear Sir—I enclose, herewith, Car License Report of the Brooklyn, Queens County and Suburban Railroad Company.

Kindly acknowledge receipt. Yours truly,

J. H. BENNINGTON, Secretary.

Report to the Comptroller of the City of New York of the Number of Cars Intended to be Run or Operated During the Year Ending May 31, 1916.

Car License Fees.

160 Cars, at $20 ..... $3,200 00

State of New York, City and County of New York, ss.:

J. H. Bennington, being duly sworn, says that he is the Secretary of the Brooklyn, Queens County and Suburban Railroad Company, that the above or annexed statement showing car license fees due the City of New York is a just and true statement of the greatest number of cars intended to be run or operated at any one time by this company for and during the year ending May 31, 1916. J. H. BENNINGTON.

Sworn and subscribed to before me this 26th day of June, 1915. CHAS. W. BROWN, Notary Public, Kings County, No. 341.

Coney Island & Gravesend Railway Company, 85 Clinton Street, Brooklyn, N. Y., Office of Secretary, June 28th, 1915.

Mr. P. J. SCULLY, *City Clerk, The City of New York,* Municipal Building, New York:

Dear Sir—I enclose, herewith, Car License Report of the Coney Island and Gravesend Railway Company.

Kindly acknowledge receipt. Yours truly,

J. H. BENNINGTON, Secretary.

Report to the Comptroller of the City of New York of the Number of Cars Intended to be Run or Operated During the Year Ending May 31, 1916.

June 24, 1915.

Coney Island and Gravesend Railway Company—Car License Fees.

6 Cars at $20 ..... $120 00

State of New York, City and County of New York, ss.:

J. H. Bennington, being duly sworn, says that he is Secretary of the Coney Island and Gravesend Railway Company, that the above or annexed statement showing car license fees due the City of New York is a just and true statement of the greatest number of cars intended to be run or operated at any one time by this company for and during the year ending May 31, 1916. J. H. BENNINGTON.

Sworn and subscribed to before me this 26th day of June, 1915. CHAS. W. BROWN, Notary Public, Kings County, No. 341.

Coney Island & Brooklyn Railroad Company, 85 Clinton Street, Brooklyn, N. Y., Office of Secretary, June 28th, 1915.

Mr. P. J. SCULLY, *City Clerk, The City of New York,* Municipal Building, New York:

Dear Sir—I enclose, herewith, Car License Report of The Coney Island & Brooklyn Railroad Company.

Kindly acknowledge receipt. Yours truly,

J. H. BENNINGTON, Secretary.

Report to the Comptroller of the City of New York of the Number of Cars Intended to be Run or Operated During the Year Ending May 31, 1916.

June 24, 1915.

The Coney Island & Brooklyn Railroad Company—Car License Fees.

186 Cars at $20 ..... $3,720 00

State of New York, City and County of New York, ss.:

J. H. Bennington, being duly sworn, says that he is Secretary of The Coney Island & Brooklyn Railroad Company, that the above or annexed statement showing car license fees due the City of New York is a just and true statement of the greatest number of cars intended to be run or operated at any one time by this company for and during the year ending May 31, 1916. J. H. BENNINGTON.

Sworn and subscribed to before me this 26th day of June, 1915. CHAS. W. BROWN, Notary Public, Kings County, No. 341.

The Brooklyn Heights Railroad Company, 85 Clinton Street, Brooklyn, N. Y., Office of Secretary, June 28th, 1915.

Mr. P. J. SCULLY, *City Clerk, The City of New York,* Municipal Building, New York:

Dear Sir—I enclose, herewith, Car License Report of The Brooklyn Heights Railroad Company, as Lessee of The Brooklyn City Railroad Company.

Kindly acknowledge receipt. Yours truly,

J. H. BENNINGTON, Secretary.

Report to the Comptroller of the City of New York of the Number of Cars Intended to be Run or Operated During the Year Ending May 31, 1916.

Car License Fees.

874 Cars, at $20 ..... $17,480 00

State of New York, City and County of New York, ss.:

J. H. Bennington, being duly sworn, says that he is the Secretary of the Brooklyn Heights Railroad Company, Lessee of The Brooklyn City Railroad Company, that the above or annexed statement showing car license fees due the City of New York is a just and true statement of the greatest number of cars intended to be run or operated at any one time by this company for and during the year ending May 31, 1916. J. H. BENNINGTON.

Sworn and subscribed to before me this 26th day of June, 1915. CHAS. W. BROWN, Notary Public, Kings County, No. 341.

The Brooklyn Heights Railroad Company, 85 Clinton Street, Brooklyn, N. Y., Office of Secretary, June 28th, 1915.

Mr. P. J. SCULLY, *City Clerk, The City of New York,* Municipal Building, New York:

Dear Sir—I enclose, herewith, Car License Report of The Brooklyn Heights Railroad Company.

Kindly acknowledge receipt. Yours truly,

J. H. BENNINGTON, Secretary.

Report to the Comptroller of the City of New York of the Number of Cars Intended to be Run or Operated During the Year Ending May 31, 1916.

Car License Fees.

5 Cars, at $20 ..... $100 00

State of New York, City and County of New York, ss.:

J. H. Benngtinton, being duly sworn, says that he is Secretary of The Brooklyn Heights Railroad Company, that the above or annexed statement showing car license fees due the City of New York is a just and true statement of the greatest number of cars intended to be run or operated at any one time by this company for and during the year ending May 31, 1916. J. H. BENNINGTON.

Sworn and subscribed to before me this 26th day of June, 1915. CHAS. W. BROWN, Notary Public, Kings County, No. 341.

Which was ordered on file.

The Vice-Chairman laid before the Board the following communication from the President of the Borough of Manhattan:

No. 1951.

President of the Borough of Manhattan—Application for Issue of Special Revenue Bonds, $115,650, for the Purpose of Making Structural Repairs to and Waterproofing the Riverside Drive and 155th Street Viaducts.

City of New York, President of the Borough of Manhattan, Municipal Building, June 28, 1915.

Hon. GEORGE MCANENY, *President, Board of Aldermen:*

Dear Sir—Application is hereby made for an issue of special revenue bonds to the amount of one hundred and fifteen thousand six hundred and fifty dollars ($115,650), for the purpose of making structural repairs to and waterproofing the Riverside Drive and 155th Street viaducts.

In support of this request, I desire to state that a recent survey of the Riverside Drive viaduct shows that the entire structure is badly out of level, owing to the fact that the foundations of several of the columns have settled badly. six of these columns will have to undergo extensive repairs, as the settlement varies from one and one-half to seven and one-half inches. Under a number of these supporting columns the granite caps surmounting the foundation have cracked on account of the settlement. This condition is also partly due to the fact that fires have been built from time to time at the base of these columns. In order to protect the bases of the columns against traffic conditions, fires and rusting, it will be necessary to place cast iron wheel guards around about forty of such columns which are exposed to these conditions.

On account of the settlement in the foundations there are a number of rivets which have become loosened and dropped out. These will all have to be replaced. One of the chief causes of the disintegration of the structure is the fact that the roadway has never been properly waterproofed, so that rain leaks constantly through the pavement and rusts the steel work. This structure has only recently been painted, but the painting affords only a temporary protection, and unless the roadway is thoroughly waterproofed, the bridge will suffer continuous damage as time goes on. The existing pavement should be removed and the roof of the bridge thoroughly waterproofed and the pavement replaced.

155th Street Viaduct.

The condition here is exactly the same as on the Riverside Drive viaduct, so far as waterproofing is concerned. Owing to the fact that the rain percolates constantly through the pavement, the steel work has rusted to such an extent that considerable repairs will have to be made. The roller bearings have rusted so badly that they no longer allow expansion to take place as originally intended. Column heads, girders and stringers have also rusted and will have to be replaced. On this viaduct the pavement should be removed. the roof of the structure waterproofed and the pavement replaced.

The following is an estimate in detail of the amount required for each structure:

Riverside Drive Viaduct.

		Total.
Roadway.		
Waterproofing. 15,700 square yards, 70 cents per square yard		$10,990 00
Repaving. asphalt with concrete foundation, 11.650 square yards, $2.50 per square yard		29,125 00
Sidewalk. 4,000 square yards, $2.25 per square yard		9,000 00
New expansion joints, 14, $100 each		1,400 00
Foundations.		
Raising 6 foundations from 1 inch to 7½ inches, at $1.000		6,000 00
Replacing 6 granite cap stones, 7 feet by 3 feet by 2 feet = 42 cubic feet each, at $100		600 00
Encasing Bottom of Columns.		
Each, cast iron sheel 5 feet high. 7 feet 6 inches long by 3 feet 6 inches wide by ¾-inch thick =4,500. at 3 cents	$135 00	
Concrete. 2 cubic yards, at $7.50	15 00	
Labor, replacing pavement, etc	25 00	
40 by	$175 00	7,000 00
Steel Work.		
Replacing defective rivets		1.000 00
Total		$65,115 00

155th Street Viaduct.

	Total.
Roadway.	
Waterproofing. 12.250 square yards at 70 cents	$8,575 00
Repaving. granite block on concrete foundation, 8,150 square yards at $2.	16 300 00
Old curb to be reset, 3,400 linear feet at 15 cents	510 00
Sidewalk, 4 067 square yards, at $2.25	9,150 00
Steel work.	
Replacing 88 roller bearings with cast iron plates, at $100 each	8.800 00
Repairs to column heads, girders, stringers, etc	7,200 00
Total	$50,535 00

The repairs herein outlined are of a permanent nature and ordinarily an issue of corporate stock would be asked rather than special revenue bonds. In view of the fact. however, that the Board of Estimate has adopted the policy whereby the corporate stock authorizations are to be kept down to the lowest possible point, it is considered that financing this work by means of special revenue bonds is preferable.

It is requested that the matter be placed before the Board of Aldermen at its meeting to be held to-morrow, so that it can be referred to the proper committee and reported out at the meeting to be held July 6th. Very truly yours.

MARCUS M. MARKS, President, Borough of Manhattan.

Which was referred to the Committee on Finance.

The Vice-Chairman laid before the Board the following communication from the President of the Borough of Queens:

No. 1952.

President of the Borough of Queens—Request for Issue of Special Revenue Bonds, $1,000, to Provide for Electric Wiring and Lighting Equipment for the Second District Court, at Elmhurst.

The City of New York, Office of the President of the Borough of Queens, Long Island City, June 28, 1915.

To the Honorable Board of Aldermen, City of New York:

Gentlemen—The Legislature at its session amended the Municipal Court Act in various respects, among other things materially increased the jurisdiction of the Courts. The extending of the jurisdiction will have the effect of materially increasing the business of the Court, the result of which will, no doubt, necessitate the holding of court on some days until late in the afternoon or evenings. At present, it is impossible to hold court after dark or even in the afternoon of a dark or cloudy day in the court room of the Second District Court at Elmhurst owing to the inadequate light furnished.

There is now installed a combination electric and gas fixture system, the electricity is not used for the reason that it is unsafe in the judgment of the Department of Water Supply, Gas and Electricity, and the gas lighting is inadequate.

Request is therefore made, in accordance with the provisions of subdivision 8 of section 188 of the Charter, for your approval of an issue of revenue bonds to the extent of $1.000 to provide for electric wiring and lighting equipment for the building. Very truly yours,

M. O. SMEDLEY, Assistant Commissioner of Public Works and Acting President of the Borough of Queens.

Which was referred to the Committee on Finance.

The Vice-Chairman laid before the Board the following communication from the Surrogate of Queens County:

No. 1953.

Surrogate, Queens County—Request for Permission to Purchase Furniture, Etc., Without Public Letting.

Jamaica, June 29, 1915.

Honorable Board of Aldermen:

Gentlemen—Referring to resolution No. 1744, in favor of adopting resolutions for issuance of special revenue bonds for purchase of desks, settees, chairs, carpets, linoleum, etc., for Surrogate's Court, Queens County, I would respectfully request that you permit me to order such desks, settees, chairs, carpets, linoleum, book typewriters, etc., without public letting and advertising for bids.

My reason for this is that since July 1, 1914, my offices have been located in an outside building where it is necessary to pay $500 per month for Watchmen and other extra help; that the remodeled building will probably be ready for occupancy in a couple of months, and, therefore, orders for said articles must be placed at once.

Respectfully, DANIEL NOBLE, Surrogate.

Which was referred to the Committee on Public Letting.

REPORTS OF STANDING COMMITTEES.

Reports of Committee on Buildings—

No. 1578.

Report of the Committee on Buildings in Favor of Filing Communication from the Commissioner of Bridges, Which Requires No Further Consideration.

The Committee on Buildings, to which was referred on March 23, 1915 (Minutes, page 1651), a communication from the Commissioner of Bridges relative to safety devices on elevators, respectfully

REPORTS:

That this communication requires no action by the Board.

It, therefore, recommends that the said paper be placed on file.

ANTHONY J. McNALLY, LAUREN CARROLL, ALEX DUJAT, JACOB BARTSCHERER, JESSE D. MOORE, JOHN DIEMER, Committee on Buildings.

Which report was accepted.

No. 1717.

Report of the Committee on Buildings in Favor of Filing Communication from the American Museum of Safety, Which Requires No Further Consideration.

The Committee on Buildings, to which was referred on April 13, 1915 (Minutes, page 80), a communication from the American Museum of Safety in reference to safety in elevator operation, respectfully

REPORTS:

That, as this communication requires no action by the Board, it recommends that the said paper be placed on file.

ANTHONY J. McNALLY, LAUREN CARROLL, ALEX DUJAT, JACOB BARTSCHERER, JESSE D. MOORE, JOHN DIEMER, Committee on Buildings.

Which report was accepted.

No. 1634.

Report of the Committee on Buildings in Favor of Filing Communication from the Commissioner of Bridges, Which Requires No Further Consideration.

The Committee on Buildings, to which was referred on May 4, 1915 (Minutes, page 357), a communication from the Commissioner of Bridges, relative to safety devices on elevators, respectfully

REPORTS:

That, as this paper requires no action by the Board, it therefore recommends that the same be placed on file.

ANTHONY J. McNALLY, LAUREN CARROLL, ALEX. DUJAT, JACOB BARTSCHERER, JOHN DIEMER, JESSE D. MOORE, Committee on Buildings.

Which report was accepted.

No: 1732.

Report of the Committee on Buildings in Favor of Filing Communication from the Citizens' Union, Which Requires No Further Consideration.

The Committee on Buildings, to which was referred on May 11, 1915 (Minutes, page 433), a communication from the Citizens' Union relative to operation of elevators, respectfully

REPORTS:

That, as this communication requires no action by the Board, it recommends that the same be placed on file.

ANTHONY J. McNALLY, LAUREN CARROLL, ALEX. DUJAT, JACOB BARTSCHERER, JESSE D. MOORE, JOHN DIEMER, Committee on Buildings.

Which report was accepted.

No. 1758 (G. O. No. 710).

Report of the Committee on Buildings in Favor of Adopting Substitute Ordinance Relative to Masonry Construction in Buildings.

The Committee on Buildings, to which was referred on May 11, 1915 (Minutes, page 522), an ordinance relative to masonry construction in buildings, respectfully

REPORTS:

That it held several hearings and conferences on this subject, as a result of which it has formulated a substitute which it believes meets many of the objections raised, and at the same time contains proper regulations of this subject.

It, therefore, recommends that the said substitute ordinance be adopted.

SUBSTITUTE.

AN ORDINANCE relative to Masonry Construction in Buildings in the City of New York.

Be It Ordained by the Board of Aldermen of The City of New York, as follows:

Section 1. Article 13 of chapter 5 of the Code of Ordinances of The City of New York is hereby amended to read as follows:

ARTICLE 13.

Masonry [walls] *construction.*

[Section 250. Construction, generally.
251. Walls for dwelling houses.
252. Walls for warehouses.
253. One-story brick buildings.
254. Bearing walls.
255. Curtain walls.
256. Inclosure walls; skeleton structures.
257. Party walls.
258. Parapet walls.
259. Ashlar work.
260. Interior walls.
261. Partition walls.
262. Tieing, anchoring or bracing.
263. Hollow walls.
264. Lining walls.
265. Furring.
266. Recesses and chases in walls.
267. Timber in walls.
268. Arches and lintels.]

Section 250. Definitions.
251. Construction.
252. Brick masonry.
253. Stone masonry.
254. Hollow building block masonry.
255. Ashlar.
256. Mortar.
257. Wall thicknesses.
258. Existing walls.
259. Parapet walls.
260. Hollow walls.
261. Recesses and chases.
262. Miscellaneous requirements.
263. Masonry arches.

§ 250. Definitions. For the purposes of this chapter:

a. approved masonry means masonry constructed in accordance with the requirements of this article, of the materials specified therein;

b. bearing wall means any wall which carries any load other than its own weight;

c. height, as applied to a wall, means the vertical distance to the top measured from the foundation wall, or from a girder or other immediate support of such wall.

§251. Construction. 1. Materials. Approved masonry shall be constructed of brick, stone, concrete, hollow building blocks, or a combination of these materials as provided in this article. It shall be properly and solidly bonded with joints filled with mortar.

2. Protection against freezing. No masonry shall be built when the temperature is below 28 degrees F. on a rising temperature or 32 on a falling temperature at the point where the work is in progress. No frozen materials shall be built upon.

3. Wetting brick. All brick shall be thoroughly wet just previous to being laid, except in freezing weather, when they shall be thoroughly dry.

4. Erection of walls and piers. Masonry walls and piers shall be built to a line and carried up plumb. In each story the walls shall be carried up full thickness to the top of the beams above. No wall of any building shall be built up more than two stories in advance of any other portions of the walls of the building, provided that where walls are carried independently by girders at each floor this provision shall not apply. All walls that meet or intersect shall be bonded or anchored to each other in an approved manner. Any pier having less than four square feet of cross section when located at an intersection with a wall shall be bonded into and built as part of that wall.

5. Piers. Every pier supporting a girder, arch, column or lintel spanning an opening over 10 feet, upon which a wall rests, shall be built of approved masonry. Every such pier having a height of more than ten times its least dimension, and every isolated pier built of brick or hollow building blocks, having less than 9 square feet of cross section shall, at vertical intervals of not more than 30 inches, have built into it bond stones not less than 4 inches thick, or approved perforated steel or cast iron plates of the full size of the pier. Isolated piers shall not exceed in height ten times their least dimension.

6. Arches and lintels. Door and window openings in walls shall be spanned by arches, or lintels having a bearing at each end of not less than 5 inches. In walls of non-fireproof buildings, when the thickness of the lintel is less than the thickness of the wall to be supported, a timber lintel may be placed on the inside of the wall resting at each end not more than 2 inches on the wall, and chamfered or cut to serve as centre for a rowlock or keyed arch. When the opening is more than 6 feet in width, templates shall be provided under the ends of lintels resting on the walls, unless the pressure under the lintel does not cause a working stress in the masonry greater than specified in article 3 of this chapter.

7. Timber in walls. No timber, except lintels, provided for in subdivision 6 of this section, and nailing blocks not over 8 inches in length, shall be placed in any masonry wall.

8. Bracing during construction. The walls and beams of every building during erection or alteration shall be strongly braced from the beams of each story, and when required shall also be braced from the outside until the building is enclosed.

§ 252. Brick masonry. Except when laid in flemish bond or faced with running bond, every sixth course in brick walls shall be a heading course. When running bond is used, every sixth course shall be bonded into the backing by cutting the course of the face brick and putting in diagonal headers behind the same, or by splitting the face brick in half and backing the same with a continuous row of headers. Where face brick is used of a different thickness from the brick used for backing, the courses of the face brick and backing shall be brought to a level at intervals of not more than six courses in height of the backing, and the face brick shall be properly tied to the backing by a full heading course of the face brick or other approved method. Face brick shall be laid at the same time as the backing, and shall in no case be laid after the backing is in place.

§ 253. Stone masonry. 1. Workmanship. No stone shall be laid in a wall in any other position than on its natural bed. Stones shall be firmly bedded in cement mortar and all spaces and joints thoroughly filled. No stone shall be used that does not bond or extend into the wall at least 6 inches. All headers shall be at least 12 inches in width and 8 inches in thickness, and consist of good flat stones.

2. Bond. All stone walls 24 inches or less in thickness shall have at least one header extending through the wall in every 3 feet in height from the bottom of the wall, and in every 3 feet in length, and if over 24 inches in thickness, shall have one header for every 6 superficial feet on both sides of the wall, laid on top of each other to bond together, and running into the wall at least 2 feet.

3. Limitation. Rubble stone walls, except for foundations, shall not be used in buildings over 60 feet high.

§ 254. Hollow building block masonry. 1. Construction. Where walls of hollow building blocks are decreased in thickness, the blocks in the top course of the thicker wall shall be filled solidly with concrete or covered with slabs of hard burned terra cotta or concrete at least 1 inch in thickness. Terra cotta or concrete templates of approved size and thickness shall be placed under all floor beams and girders to properly distribute the loads.

2. Veneering. Hollow building blocks of terra cotta used in exterior walls shall be extra hard burned or veneered with brick, architectural terra cotta, or stone, or covered on the exposed surface with at least three-quarters of an inch of portland cement stucco. When walls of hollow building blocks are veneered with brick, the facing shall be bonded to the backing with headers every sixth course of the brickwork.

3. Limitation. Walls of hollow building blocks shall not be used in buildings over forty feet in height, except that in buildings of skeleton construction terra cotta blocks with shells and webs not less than one inch thick, faced with at least four inches of brickwork properly bonded as specified in this section, may be used.

§ 255. Ashlar. Stone, architectural terra cotta or other approved material, used for the facing of any wall and known as ashlar, shall be not less than 4 inches thick. Such ashlar shall be anchored to the wall in an approved manner. Within the fire limits ashlar shall not be used in any wall the total thickness of which is less than 12 inches.

§ 256. Mortar. In the following masonry construction no mortar other than cement mortar shall be used:

a. Foundation walls and footings;
b. Rubble stone walls;
c. Hollow building block construction;
d. Walls faced with ashlar;
e. Isolated piers;
f. Curtain walls;
g. Exterior walls of skeleton structures;
h. Parapet walls;
i. Chimneys above roofs;
j. Linings of existing walls.

[§ 250. Construction, generally. 1. Materials. The walls of all buildings, other than frame or wood buildings, shall be constructed of stone, brick, Portland cement concrete, iron, steel or other hard, incombustible material, and the several component parts of such buildings shall be as herein provided.

2. Inclosure of buildings. All buildings shall be inclosed on all sides with independent or party walls.

3. Bond of brick walls. In all brick walls every sixth course shall be a heading course, except where walls are faced with brick in running bond, in which latter case every sixth course shall be bonded into the backing by cutting the course of the face brick and putting in diagonal headers behind the same, or by splitting the face brick in half and backing the same with a continuous row of headers. Where face brick is used of a different thickness from the brick used for backing, the courses of the exterior and interior brickwork shall be brought to a level bed at intervals of not more than 10 courses in height of the face brick, and the face brick shall be properly tied to the backing by a heading course of the face brick.

4. Bond of stone walls. All stone walls 24 inches or less in thickness shall have at least one header extending through the wall in every 3 feet in height from the bottom of the wall, and in every 3 feet in length, and if over 24 inches in thickness shall have one header for every 6 superficial feet on both sides of the wall, laid on top of each other to bond together, and running into the wall at least 2 feet. All headers shall be at least 12 inches in width and 8 inches in thickness, and consist of good flat stones. No stone shall be laid in such walls in any other position than on its natural bed. No stone shall be used that does not bond or extend into the wall at least 6 inches. Stones shall be firmly bedded in cement mortar and all spaces and joints thoroughly filled.

5. Walls and piers. The walls and piers of all buildings shall be properly and solidly bonded together with close joints filled with mortar. They shall be built to a line and be carried up plumb and straight. The walls of each story shall be built up the full thickness to the top of the beams above. In all walls of the thickness specified in this chapter, the same amount of materials may be used in piers and buttresses.

6. Piers. All piers shall be built of stone or good, hard, well-burnt brick laid in cement mortar. Every pier built of brick containing less than 9 superficial feet at the base, supporting any beam, girder, arch or column on which a wall rests, or lintel spanning an opening over 10 feet and supporting a wall, shall at intervals of not over 30 inches apart in height have built into it a bond stone not less than 4 inches thick, or a cast-iron plate of sufficient strength, and the full size of the piers. For piers fronting on a street the bond stones may conform with the kind of stone used for the trimmings of the front. Cap stones of cut granite or blue stone, proportioned to the weight to be carried, but not less than 5 inches in thickness, by the full size of the pier, or cast iron plates of equal strength by the full size of the pier, shall be set under all columns or girders, except where a 4-inch bond stone

is placed immediately below said cap stone, in which case the cap stone may be reduced in horizontal dimensions at the discretion of the superintendent of buildings. Isolated brick piers shall not exceed in height 10 times their least dimensions. Stone posts for the support of posts or columns above shall not be used in the interior of any building.

7. Coursed stone construction. Where walls or piers are built of coursed stones, with dressed level beds and vertical joints, the superintendent of buildings shall have the right to allow such walls or piers to be built of a less thickness than specified for brickwork, but in no case shall said walls or piers be less than three-quarters of the thickness provided for the brickwork.

8. Mortar. All foundation walls, isolated piers, parapet walls and chimneys above roofs shall be laid in cement mortar, but this shall not prohibit the use, in cold weather, of a small proportion of lime to prevent the mortar from freezing. All other walls built of brick or stone shall be laid in lime, cement, or lime and cement mortar mixed. The backing up of all stone ashlar shall be laid up with cement mortar, or cement and lime mortar mixed, but the back of the ashlar may be parged with lime mortar to prevent discoloration of the stone.

9. Weather conditions. Walls or piers, or parts of walls and piers, shall not be built in freezing weather, and if frozen, shall not be built upon.

10. Wetting brick. All brick laid in non-freezing weather shall be well wet before being laid.]

§ 257. *Wall thicknesses.* 1. *Application. a. The thickness of masonry walls shall in all cases, irrespective of any other requirements of this section, be sufficient to keep the stresses in the masonry within the working stresses prescribed by this chapter.*

b. The heights herein specified, unless otherwise clearly indicated, are the heights of walls as defined in § 250.

c. In all cases the wall thicknesses herein specified shall be applied to the nearest tier of beams to the height specified.

d. Nothing in this section shall prevent the use in any wall of the same amount of material in piers and buttresses as is required for the thicknesses herein prescribed.

e. The unsupported height of any wall or part thereof shall not exceed twenty times the thickness of such unsupported part, unless reinforced by adequate cross-walls, buttresses or columns.

2. Residence buildings. Except as hereinafter provided, the thicknesses of masonry walls of residence buildings hereafter erected shall be not less than the following:

a. when over 75 feet in height, 12 inches for the uppermost 25 feet, 16 inches for the next lower 35 feet, 20 inches for the next lower 40 feet, with a 4-inch increase for each additional lower section of 40 feet;

b. when not over 75 feet in height, 12 inches for the uppermost 55 feet, and 16 inches below that.

3. Public and business buildings. Except as hereinafter provided the thicknesses of masonry walls of public and business buildings hereafter erected shall be not less than the following:

a. when over 75 feet in height, 16 inches for the uppermost 25 feet, 20 inches for the next lower 35 feet, 24 inches for the next lower 40 feet, and increasing 4 inches for each additional lower section of 40 feet;

b. when over 60 feet and not over 75 feet in height, 16 inches for the uppermost 50 feet, and 20 inches below that;

c. when over 40 feet and not over 60 feet in height, 12 inches for the uppermost 20 feet, and 16 inches below that;

d. when not over 40 feet in height, 12 inches throughout.

4. Increased thickness, when required. a. Every bearing wall with face brick bonded with clip courses or ties, and every bearing wall faced with ashlar shall have a total thickness of at least 4 inches more than otherwise required unless the ashlar is at least 8 inches thick in every alternate course and bonded to the wall.

b. Every wall built of rubble stone shall have a thickness at least 4 inches more than required by subdivisions 2 and 3 of this section, but no such stone wall shall be less than 18 inches thick.

c. When the clear span between bearing walls is over 26 feet, such walls shall be increased 4 inches in thickness for every 12 1-2 feet or part thereof, that said span is over 26 feet.

d. All walls over 105 feet long between cross-walls or proper piers or buttresses, shall be increased in thickness over the minimum requirement at least 4 inches for every 105 feet, or part thereof, over 105 feet in length.

e. If the horizontal section through a bearing wall shows more than thirty per cent area of flues and openings such part of the wall where the excessive openings exist shall be increased four inches in thickness over minimum requirements for every fifteen per cent, or fraction thereof, of flue or opening area in excess of thirty per cent, provided that if such wall be laid up in portland cement mortar the increase in thickness shall be required only when the area of flues and openings exceeds forty-five per cent; or, instead of increasing such wall in thickness, adequate piers or buttresses shall be provided.

f. In case any wall is increased in thickness in accordance with one of the requirements of this subdivision, it will not be necessary to further increase the thickness to meet another requirement of this subdivision, unless, in the judgment of the superintendent of buildings the safety of the wall demands it.

5. One story buildings. In one story buildings the walls may be 8 inches thick, provided that no such wall exceeds 50 feet in length between cross-walls or adequate buttresses.

6. Small residence buildings. In any residence building outside the fire limits and in any residence building not more than twenty feet in width within the fire limits, bearing walls of brick may be eight inches in thickness, provided such buildings are not more than forty feet in height and that the eight-inch walls do not exceed fifty feet in length between cross-walls or adequate buttresses, except that when the walls are not pierced by openings of any kind such length may be sixty feet.

7. Residence buildings outside the fire limits. Outside of the fire limits the thicknesses of walls of hollow building blocks shall be not less than 8 inches for the uppermost 20 feet, 10 inches for the next lower 10 feet, and 12 inches for the next lower 10 feet.

8. Non-bearing walls. The thicknesses of non-bearing walls of residence buildings, or of public and business buildings may be 4 inches less than those specified, respectively, in subdivisions 2 and 3 of this section for walls of corresponding height, provided that no such wall shall be less than 12 inches thick nor extend for more than 55 feet in height without any increase of thickness.

9. Curtain walls. Non-bearing walls built between piers or metal columns shall be not less than 12 inches thick for the uppermost 60 feet of height, increasing 4 nches in thickness for each next lower section of 60 feet.

10. Walls of skeleton structures. Masonry walls supported at each story by girders may be 12 inches thick for the entire height of the building.

11. Interior walls. a. In residence buildings, interior walls of brick or concrete, whether bearing or non-bearing walls, may be 8 inches thick for the uppermost 55 feet and 12 inches for the next lower 20 feet, provided that no such wall shall exceed 75 feet in height nor 30 feet in length between cross-walls or buttresses.

b. Interior walls over 75 feet in height may be reduced in thickness in such proportion to the number of cross-walls, piers or buttresses, and their nearness to each other, as may be deemed safe by the superintendent of buildings, provided, however, that such walls shall be not less than 12 inches thick at the top, and shall be gradually increased in thickness to the bottom.

[§ 251. Walls for dwelling houses. 1. Definition. The expression "walls for dwelling houses" shall be taken to mean and include in this class walls for the following buildings: Dwellings, asylums, apartment houses, convents, club houses, dormitories, hospitals, hotels, lodging houses, tenements, parish buildings, schools, laboratories, studios.

2. Thickness. a. The walls above the basement of dwelling houses not over 3 stories and basement in height, nor more than 40 feet in height, and not over 20 feet in width, and not over 55 feet in depth, shall have side and party walls not less than 8 inches thick, and front and rear walls not less than 12 inches thick.

b. All walls of dwellings exceeding 20 feet in width and not exceeding 40 feet in height, shall be not less than 12 inches thick.

c. All walls of dwellings 26 feet in width between bearing walls which are hereafter erected or which may be altered to be used for dwellings and being over 40 feet in height and not over 50 feet in height, shall be not less than 12 inches thick above the foundation wall. No wall shall be built having a 12-inch thick portion measuring vertically more than 50 feet.

d. If over 50 feet in height and not over 60 feet in height the wall shall be not less than 16 inches thick in the story next above the foundation walls and from thence not less than 12 inches to the top.

e. If over 60 feet in height, and not over 75 feet in height, the walls shall be not less than 16 inches thick above the foundation walls to the height of 25 feet, or to the nearest tier of beams to that height, and from thence not less than 12 inches thick to the top.

f. If over 75 feet in height, and not over 100 feet in height, the walls shall be not less than 20 inches thick above the foundation walls to the height of 40 feet, or to the nearest tier of beams to that height, thence not less than 16 inches thick to the height of 75 feet, or to the nearest tier of beams to that height, and thence not less than 12 inches thick to the top.

g. If over 100 feet in height and not over 125 feet in height the walls shall be not less than 24 inches thick above the foundation walls to the height of 40 feet or to the nearest tier of beams to that height, thence not less than 20 inches thick to the height of 75 feet, or to the nearest tier of beams to that height, thence not less than 16 inches thick to the height of 110 feet, or to the nearest tier of beams to that height, and thence not less than 12 inches thick to the top.

h. If over 125 feet in height and not over 150 feet in height, the walls shall be not less than 28 inches thick above the foundation walls to the height of 30 feet, or to the nearest tier of beams to that height; thence not less than 24 inches thick to the height of 65 feet, or to the nearest tier of beams to that height; thence not less than 20 inches thick to the height of 100 feet, or to the nearest tier of beams to that height; thence not less than 16 inches thick to the height of 135 feet, or to the nearest tier of beams to that height, and thence not less than 12 inches thick to the top.

i. If over 150 feet in height, each additional 30 feet in height or part thereof, next the foundation walls, shall be increased 4 inches in thickness, the upper 150 feet of wall remaining the same as specified for a wall of that height.

3. Fore-and-aft partitions. All non-fireproof dwelling houses erected under this section, exceeding 26 feet in width, shall have brick fore-and-aft partition walls. Eight-inch brick partition walls may be built to support the beams in such buildings in which the distance between the main or bearing walls is not over 33 feet; if the distance between the main or bearing walls is over 33 feet the brick partition wall shall not be less than 12 inches thick; provided, that no clear span is over 26 feet. This section shall not be construed to prevent the use of iron or steel girders, or iron or steel girders and columns, or piers of masonry, for the support of the walls and ceilings over any room which has a clear span of more than 26 feet between walls, in such dwellings as are not constructed fireproof, nor to prohibit the use of iron or steel girders, or iron or steel girders and columns in place of brick walls in buildings which are to be used for dwellings when constructed fireproof.

4. Increased thickness for increased span. If the clear span is to be over 26 feet, then the bearing walls shall be increased 4 inches in thickness for every 12½ feet or part thereof that said span is over 26 feet, or shall have, instead of the increased thickness, such piers or buttresses as, in the judgment of the superintendent of buildings, may be necessary.

5. Non-bearing walls. All non-bearing walls of buildings hereinbefore in this section specified may be 4 inches less in thickness, provided, however, that none are less than 12 inches thick, except as in this chapter specified. No wall shall be built having any one thickness measuring vertically more than 50 feet.

6. Plural construction. Whenever two or more dwelling houses shall be constructed not over 12 feet 6 inches in width, and not over 50 feet in height, the alternating centre wall between any two such houses shall be of brick, not less than 8 inches thick above the foundation wall; and the ends of the floor beams shall be so separated that 4 inches of brickwork will be between the beams where they rest on said centre wall.

§ 252. Walls for warehouses. 1. Definition. The expression "Walls for warehouses" shall be taken to mean and include in this class walls for the following buildings:

Warehouses, stores, factories, mills, printing houses, pumping stations, refrigerating houses, slaughter houses, wheelwright shops, cooperage shops, breweries, light and power houses, sugar refineries, office buildings, stables, markets, railroad buildings, jails, police stations, court houses, observatories, foundries, machine shops, public assembly buildings, armories, churches, theatres, libraries, museums.

2. Thickness. a. The walls of all warehouses, 25 feet or less in width between walls or bearings, shall be not less than 12 inches thick to the height of 40 feet above the foundation walls.

b. If over 40 feet in height, and not over 60 feet in height, the walls shall be not less than 16 inches thick above the foundation walls to the height of 40 feet, or to the nearest tier of beams to that height, and thence not less than 12 inches thick to the top.

c. If over 60 feet in height, and not over 75 feet in height the walls shall be not less than 20 inches thick above the foundation walls to the height of 25 feet, or to the nearest tier of beams to that height, and thence not less than 16 inches thick to the top.

d. If over 75 feet in height, and not over 100 feet in height, the walls shall be not less than 24 inches thick above the foundation walls to the height of 40 feet, or to the nearest tier of beams to that height; thence not less than 20 inches thick to the height of 75 feet, or to the nearest tier of beams to that height, and thence not less than 16 inches thick to the top.

e. If over 100 feet in height, and not over 125 feet in height, the walls shall be not less than 28 inches thick above the foundation walls to the height of 40 feet, or to the nearest tier of beams to that height; thence not less than 24 inches thick to the height of 75 feet, or to the nearest tier of beams to that height; thence not less than 16 inches thick to the top.

f. If over 100 feet in height, and not over 125 feet in height, the walls shall be not less than 28 inches thick above the foundation walls to the height of 40 feet, or to the nearest tier of beams to that height; thence not less than 24 inches thick to the height of 75 feet, or to the nearest tier of beams to that height; thence not less than 20 inches thick to the height of 110 feet, or to the nearest tier of beams to that height, and thence not less than 16 inches thick to the top.

g. If over 125 feet in height, and not over 150 feet, the walls shall be not less than 32 inches thick above the foundation walls to the height of 30 feet, or to the nearest tier of beams to that height; thence not less than 28 inches thick to the height of 65 feet, or to the nearest tier of beams to that height; thence not less than 24 inches thick to the height of 100 feet, or to the nearest tier of beams to that height; thence not less than 20 inches thick to the height of 135 feet, or to the nearest tier of beams to that height; and thence not less than 16 inches thick to the top.

h. If over 150 feet in height, each additional 25 feet in height, or part thereof next above the foundation walls shall be increased 4 inches in thickness, the upper 150 feet of wall remaining the same as specified for a wall of that height.

3. Increased thickness for increased span. If there is to be a clear span of over 25 feet between the bearing walls, such walls shall be 4 inches more in thickness than in this section specified, for every 12½ feet, or fraction thereof, that said walls are more than 25 feet apart, or shall have instead of the increased thickness such piers or buttresses as, in the judgment of the superintendent of buildings, may be necessary.

4. Buildings over 25 feet in width. In all stores, warehouses and factories over 25 feet in width between walls there shall be brick partition walls, or girders supported on iron, or wood columns, or piers of masonry.

5. Buildings of a public character. The walls of buildings of a public character shall be not less than in this chapter specified for warehouses, with such piers or such buttresses, or supplemental columns of iron or steel, as, in the judgment of the superintendent of buildings may be necessary to make a safe and substantial building.

§ 253. One-story brick buildings. One-story structures not exceeding a height of 15 feet may be built with 8-inch walls when the bearing walls are not more than 19 feet apart, and the length of the 8-inch bearing walls does not exceed 55 feet. One-story and basement extensions may be built with 8-inch walls when not over 20 feet wide, 20 feet deep and 20 feet high to dwellings.

§ 254. Bearing walls. 1. Generally, bearing walls shall be taken to mean those walls on which the beams, girders or trusses rest. If any horizontal section through any part of any bearing wall in any building shows more than 30 per centum area of flues and openings, the said wall shall be increased 4 inches in thickness for every 15 per centum, or fraction thereof, of flue or opening area in excess of 30 per centum. All bearing walls faced with brick laid in running bonds shall be 4 inches thicker than the walls are required to be under any section of this chapter.

2. Increased thickness for increased depth. All buildings, not excepting dwellings, that are over 105 feet in depth, without a cross wall of proper piers or buttresses, shall have the side or bearing walls increased in thickness 4 inches or more than is specified in the respective sections of this chapter for the thickness of

walls for every 105 feet or part thereof, that the said buildings are over 105 feet in depth.

§ 255. Curtain walls. Curtain walls built in between piers or iron or steel columns and not supported on steel or iron girders, shall be not less than 12 inches thick for 60 feet of the uppermost height thereof, or nearest tier of beams to that height, and increased 4 inches for every additional section of 60 feet or nearest tier of beams to that height.

§ 256. Inclosure walls; skeleton structures. Walls of brick built in between iron or steel columns, and supported wholly or in part on iron or steel girders, shall be not less than 12 inches thick for 75 feet of the uppermost height thereof, or to the nearest tier of beams to that measurement, in any building so constructed, and every lower section of 60 feet, or to the nearest tier of beams to such vertical measurement, or part thereof, shall have a thickness of 4 inches more than is required for the section next above it down to the tier of beams nearest to the curb level; and thence downward, the thickness of walls shall increase in the ratio prescribed in § 234 of this chapter.]

§ [257] *258.* [Party] *Existing* walls. 1. *When use is permitted without change.* Walls heretofore built [for or used as party walls], whose thickness at the time of their erection was in accordance with the requirements of the then existing laws, but which are not in accordance with the requirements of this chapter, may be used *without change,* if in good condition, [for the ordinary uses of party walls,] *in buildings hereafter erected or altered,* provided *the stresses in the masonry do not exceed the working stresses prescribed by this chapter and* the height of [the same] *such walls* be not increased *except in so far as may be necessary to make the height uniform.*

[§ 264.] 2. Lining walls. [1. Existing structures.] In case it is desired to *use and* increase the height of *any* existing [party or independent] wall[s], which [are] *is* less in thickness than required [under] *by* this chapter, [the same shall be done] *such wall shall be reinforced* by a lining of brickwork [to form a] *so that the* combined thickness with the old wall [of] *shall be* not less than 4 inches more than the thickness required for a new wall corresponding with the total height of the wall when [so] increased in height, *provided that such lining shall not be used to a greater height than forty feet and that such wall shall not be increased to exceed seventy-five feet in height.* [The said] *Such* lining[s] shall be supported on proper foundations [and carried up to such height as the superintendent of buildings may require. No lining] *and* shall be *not* less than eight inches in thickness, and [all lining shall be laid up in cement mortar and] thoroughly anchored to the old [brick] wall[s] with suitable [wrought-iron] anchors, placed two feet apart and properly fastened or driven into the old wall[s] in rows, alternating vertically and horizontally with each other, the old wall[s] being first cleaned of plaster or other coatings where any lining is to be built against the same. *No wall, however, shall be lined unless in good condition and not until the approval of the superintendent of buildings has been given.*

[2. Rubble walls. No rubble wall shall be lined except after inspection and approval by the superintendent of buildings.]

§ [258] 259. Parapet walls. All exterior and division or party walls *of masonry* over 15 feet high, except[ing] *in detached buildings with overhanging roofs, or* where such walls are to be finished with cornices, gutters or crown mouldings, shall have parapet walls [not less than 8 inches in thickness and] carried [2 feet] above the roof. *For residence buildings parapet walls shall be not less than eight inches thick and carried at least two feet above the roof, except that in party walls between buildings of the same height and not over forty feet in height, such parapet shall be not less than eight inches above the roof. For public and business buildings* [but for warehouses, factories, stores and other buildings used for commercial or manufacturing purposes, the] parapet walls shall be not less than twelve inches[in] thick[ness] and carried *at least* three feet above the roof [and all such]. *All parapet* walls shall be coped with stone, terra cotta, *concrete* or cast iron.

[§ 260. Interior walls. In case the walls of any building are less than 25 feet apart, and less than 40 feet in depth, or there are crosswalls which intersect the walls, not more than 40 feet distant, or piers or buttresses built into the walls, the interior walls may be reduced in thickness in just proportion to the number of crosswalls, piers or buttresses, and their nearness to each other; provided, however, that this clause shall not apply to walls below 60 feet in height, and that no such wall shall be less than 12 inches thick at the top, and greatly increased in thickness by set-offs to the bottom. The superintendent of buildings having jurisdiction is hereby authorized and empowered to decide (except where herein otherwise provided for) how much the walls herein mentioned may be permitted to be reduced in thickness, according to the peculiar circumstances of each case, without endangering the strength and safety of the building.

§ 261. Partition walls. 1. Generally. Eight-inch brick and 6-inch and 4-inch hollow tile partitions of hard burnt clay or porous terra-cotta may be built, not exceeding in their vertical portions a measurement of 50, 36 and 24 feet, respectively, and in their horizontal measurement a length not exceeding 75 feet, unless strengthened by proper crosswalls, piers or buttresses, or built in iron or steel framework. All such partitions shall be carried on proper foundations, or on iron or steel girders, or on iron or steel girders and columns or piers of masonry.

2. Cellars of residences. One line of fore-and-aft partitions in the cellar or lowest story, supporting stud partitions above, in all residence buildings over 20 feet between bearing walls in the cellar or lowest story, hereafter erected, shall be constructed of brick, not less than 8 inches thick, or piers of brick with openings arched over below the under side of the first tier of beams, or girders of iron or steel and iron columns, or piers of masonry, may be used; or if iron or steel floor beams spanning the distance between bearing walls are used, of adequate strength to support the stud partitions above in addition to the floor load to be sustained by the said iron or steel beams, then the fore-and-aft brick partition, or its equivalent, may be omitted. Stud partitions, which may be placed in the cellar or lowest story of any building, shall have good, solid stone or brick foundation walls under the same, which shall be built up to the top of the floor beams or sleepers, and the sills of said partitions shall be of locust or other suitable hard wood; but if the walls are built 5 inches higher of brick than the top of the floor beams or sleepers, any wooden sill may be used on which the studs shall be set.

§ 262. Tieing, anchoring or bracing. In no case shall any wall or walls of any building be carried up more than 2 stories in advance of any other wall, except by permission of the superintendent of buildings. This prohibition shall not include the inclosure walls for skeleton buildings. The front, rear, side and party walls shall be properly bonded together, or anchored to each other every 6 feet in their height by wrought-iron tie anchors, not less than 1 1-2 inches by 3-8 of an inch in size, and not less than 24 inches in length. The side anchors shall be built into the side or party walls not less than 16 inches, and into the front and rear walls, so as to secure the front and rear walls to the side or party walls when not built and bonded together. All exterior piers shall be anchored to the beams or girders on the level of each tier. The walls and beams of every building, during the erection or alteration thereof, shall be strongly braced from the beams of each story and, when required, shall also be braced from the outside until the building is enclosed. The roof tier of wood beams shall be safely anchored with plank or joist to the beams of the story below until the building is inclosed.]

§ [263] 260. Hollow walls. In all walls that are built hollow the same [quantity] *amount* of [stone, brick or concrete] *masonry* shall be used in their construction as if they were built solid, as in this chapter provided, and no hollow wall shall be built unless the parts of same are connected by proper ties, either of brick, stone or iron, placed not over 24 inches apart.

§ [266] 261. Recesses and chases [in walls]. 1. Stairway and elevator recesses. Recesses for stairways or elevators may be left in the foundation [or cellar] walls of [all] buildings, but in no case shall the walls be of less thickness than the walls of the fourth story, unless reinforced by additional piers with iron or steel girders, or iron or steel columns and girders, securely anchored to walls on each side.

2. Alcoves.. Recesses for alcoves and similar purposes shall have not less than 8 inches of brickwork at the back of such recesses, and such recesses shall be not more than 8 feet in width, and shall be arched over or spanned with iron or steel lintels, and not carried up higher than 18 inches below the bottom of the beams of the floor next above.

3. Pipe-chases. No chase for [water or other] pipes *or other purpose* shall [be made in any pier, and in no] *extend into any* wall more than one-third of its thickness. *No horizontal chase in any wall shall exceed 4 feet in length. No chase shall be made within the required area of any pier. Chases shall not be cut in walls of hollow block construction but may be provided by properly formed blocks.* [The e] *Chases* [around said pipe or pipes] shall be filled up with solid masonry [for] *within the floor thickness at* [the space of one foot at the top and bottom of] each story.

4. Limitations. [No horizontal recess or chase in any wall shall be allowed exceeding 4 feet in length without permission of the superintendent of buildings having jurisdiction.] The aggregate area of recesses and chases in any wall shall not exceed one-fourth of the whole area of the face of the wall on any story. [, nor shall any such] *No* recess *shall* be made within a distance of 6 feet from any other recess in the same wall.

§ [265] 262. [Furring] *Miscellaneous requirements.* 1. Hollow brick [or tile]. The inside 4 inches of [all] walls may be built of hard-burnt hollow brick, properly tied and bonded into the walls and of the dimension of ordinary bricks.

2. *Furring.* Where hollow [tile or porous terra-cotta] blocks *of any kind* are used as [lining or] furring for walls, they shall not be included in the measurement of the thickness of such walls.

3. *Fire stops.* [2. Wood.] In all walls furred with wood, the brickwork between the ends of wood beams shall project the thickness of the furring beyond the inner face of the wall for the full depth of the beams.

§ 263. *Masonry arches. All masonry arches shall be capable of sustaining the weight and pressure which they are to carry, and the stress at any point shall not exceed the working stresses prescribed by this chapter. Tie rods shall be used where necessary to resist the thrust.*

[§ 267. Timber in walls. No timber shall be used in any wall of any building where stone, brick or iron is commonly used, except inside lintels, as hereinafter provided, and brace blocks, not more than 8 inches in length.

§ 268. Arches and lintels. 1. Generally. Openings for doors and windows in all buildings shall have good and sufficient arches of stone, brick or terra-cotta, well built and keyed with good and sufficient abutments, or lintels of stone, iron or steel of sufficient strength, which shall have a bearing at each end of not less than 5 inches on the wall.

2. Arches. All masonry arches shall be capable of sustaining the weight and pressure which they are designed to carry, and the stress at any point shall not exceed the working stress for the material used, as given in § 53 of this chapter. Tie rods shall be used where necessary to secure stability.

3. Lintels. On the inside of all openings in which lintels shall be less than the thickness of the wall to be supported, there shall be timber lintels which shall rest at each end not more than 3 inches on any wall, which shall be chamfered at each end, and shall have a suitable arch turned over the timber lintel. Or the inside lintel may be of cast iron or wrought iron or steel, and in such case stone blocks or cast-iron plates shall not be required at the ends where the lintel rests on the walls, provided the opening is not more than 6 feet in width.

§ 259. Ashlar work. Stone used for the facing of any building, and known as ashlar, shall be not less than 4 inches thick. Stone ashlar shall be anchored to the backing and the backing shall be of such thickness as to make the walls, independent of the ashlar, conform as to the thickness with the requirements of §§ 251 and 252 of this chapter, unless the ashlar be at least 8 inches thick and bonded onto the backing, and then it may be counted as part of the thickness of the wall. Iron ashlar plates used in imitation of stone ashlar on the face of a wall shall be backed up with the same thickness of brickwork as stone ashlar.]

Section 2. This ordinance shall take effect three months after its adoption by the Board of Aldermen.

Note—New matter in *italics;* matter in brackets [] to be omitted.

ANTHONY J. McNALLY, LAUREN CARROLL, ALEX. DUIAT, JOHN KOCHENDORFER, WILLIAM D. BRUSH, CHARLES P. COLE, Committee on Buildings.

Which was laid over.

No. 1834 (G. O. No. 711).

Report of the Committee on Buildings in Favor of Adopting Substitute Ordinance Relating to Fireproof Construction.

The Committee on Buildings, to which was referred on June 8, 1915 (Minutes, page 641), the annexed ordinance relating to fireproof construction in The City of New York, respectfully

REPORTS:

That it has held a public hearing and a number of conferences on this subject, and has formulated a substitute which it believes covers the points raised by various objectors in so far as can be done with proper regulation.

It recommends that the said substitute ordinance be adopted.

SUBSTITUTE.

AN ORDINANCE relating to fireproof construction in The City of New York.

Be it Ordained by the Board of Aldermen of The City of New York, as follows:

Section 1. Article 17 of Chapter 5 of the Code of Ordinances of The City of New York is hereby amended to read as follows:

Article 17.

Fireproof Construction.

[Section 350. Generally.
351. Buildings over 150 feet in height.
352. Fireproof floors.]

Section 350. *Walls.*
351. *Iron and steel construction.*
352. *Masonry.*
353. *Reinforced Concrete.*
354. *Floors and roofs.*
355. *Partitions.*
356. *Interior finish.*
357. *Exterior windows.*
358. *Approvals.*

§350. *Walls. The exterior walls or piers of fireproof buildings shall be approved masonry or reinforced concrete.*

§351. *Iron and steel construction. 1. General. All metal structural members which support loads or resist stresses, in fireproof buildings, shall be entirely encased in fireproofing material securely applied as hereinafter specified.*

2. Columns. a. In exterior walls. Iron or steel columns placed within exterior walls or along the outer lines of a building shall be encased with approved masonry not less than eight inches thick on their outer and side surfaces, nor less than four inches thick on their inner surfaces.

b. Interior. Iron and steel columns used in the interior of a building shall be encased on all sides with fireproofing materials not less than two inches thick.

c. Lugs and brackets. The extreme outer edges of lugs, brackets or other supporting parts of columns shall not extend nearer than one inch to the outer surface of the fireproof casing.

d. Protection to fireproofing. Where the fireproofing of columns is exposed to damage from trucking or handling of merchandise, the superintendent of buildings may require such fireproofing to be jacketed for a height of three feet from the floor with a protective covering.

3. Beams and girders. Iron or steel beams and girders shall be entirely encased in fireproofing materials not less than two inches thick at any point when supporting a wall or part thereof or a sidewalk, and not less than one and one-half inches thick in any case

4. Lintels. a. Iron or steel. Iron or steel lintels over openings in walls shall be encased as required for beams, provided that when the span of any such opening does not exceed four feet or such opening is spanned by an adequate masonry arch above the lintel the fireproofing may be omitted.

b. Stone. Stone lintels shall not be used in fireproof buildings unless supplemented on the inside of the wall with iron or steel lintels, or with suitable masonry arches.

5. Trusses. a. General. All members of steel trusses, except roof trusses hereinafter specified, shall be entirely encased in fireproofing materials not less than two inches thick at any point.

b. Roof trusses. The fireproofing herein required for trusses may be omitted when such trusses support only roof loads and ceilings over interior spaces having a clear height of at least twenty feet below the lower chords of the trusses. In such cases the fireproofing may also be omitted from the soffits of roof beams or purlins.

6. Fireproofing materials. The fireproofing required by this section shall consist of any of the following materials:

a. Bonded brickwork laid in cement mortar;

b. concrete consisting of one part portland cement, and not more than two parts of sand and four parts of gravel, stone or other approved aggregate that will pass through a three-quarter inch ring, suitably reinforced with wire or metal fabric;

c. cinder concrete consisting of one part portland cement and not more than two parts of sand and five parts of clean, well-burned steam boiler cinders, suitably reinforced with wire or metal fabric;

d. porous or semi-porous terra cotta blocks with shells and webs at least one inch thick, laid in cement mortar, thoroughly bonded or secured by metal ties;

e. solid gypsum blocks, containing not more than twenty-five per cent. by weight of cinders, asbestos fibre, wood chips or vegetable fibre, laid in gypsum plaster or cement mortar, thoroughly bonded or secured by suitable galvanized metal ties or fabric; or

f. any material or form of construction that will resist the action of flame and a heat of seventeen hundred degrees Fahrenheit for at least two hours, without raising the temperature of the material to be protected above five hundred and fifty degrees Fahrenheit by transmission through a thickness of two inches as determined by test prescribed in the rules adopted by the superintendent of buildings.

7. Prohibition. No pipes, wires, cables or other material shall be embedded in the required fireproofing of colums or other structural members.

§ 352. Masonry. Interior walls, piers, arches and vaultings that support loads in addition to their own weight in fireproof buildings shall be constructed of approved masonry, except that stone masonry shall not be used for such purpose, or for columns or lintels unless supplemented by other approved masonry or by properly protected iron or steel construction.

§ 353. Reinforced concrete. Reinforced concrete construction conforming with the requirements of article 16 of this chapter shall be deemed fireproof construction.

§ 354. Floors and roofs. 1. General. The filling between steel floor and roof beams in fireproof buildings shall consist of arches or slabs of brick, terra cotta, stone concrete or cinder concrete, constructed as hereinafter specified, or of such other material or construction as may be approved by the superintendent of buildings as conforming to the requirements of the fire and strength tests hereinafter prescribed.

2. Brick arches. When brick is used as floor filling it shall consist of segmental arches having a thickness of not less than four inches for spans of five feet or less, and of not less than eight inches for spans exceeding five feet. Such arches shall be built of good, hard common or hollow brick, laid to a line and properly and solidly bonded. Each longitudinal line of brick shall break joints with the adjoining lines. The arches shall spring from suitable skewbacks, and shall be properly keyed. The rise shall be not less than one inch for each foot of span. The brick shall be well wet before laying, and the joints filled solid with cement mortar.

3. Terra cotta arches. a. Material. When terra cotta is used as floor filling it shall consist of hollow blocks, either hard burned or semi-porous, of uniform density and hardness. The thickness of shells and webs of each block shall be not less than five-eighths of an inch. Interior vertical and horizontal webs of arch blocks shall not be spaced more than four inches apart. The skewbacks shall be of such form and section as to accurately fit the beams and properly receive the thrust of the arches. The arch blocks shall be laid in cement mortar and properly keyed.

b. Segmental arches. When terra cotta filling is segmental in form the blocks shall be not less than six inches in depth with at least two cellular spaces in such depth. The rise of such arches shall be not less than one and one-quarter inches for each foot of span.

c. Flat arches. When terra cotta filling is in the form of flat arches, the depth of the blocks, unless reinforced with steel, shall be not less than one and one-half inches for each foot of span between the steel beams, exclusive of the portion of the block projecting below the underside of the beams.

d. Strength of terra cotta arches. Terra cotta filling shall be so designed that it will safely sustain the superimposed loads by increasing so far as may be necessary the depth and the thickness of shells and webs of the blocks. When such filling is reinforced by wire fabric, steel rods or other steel shapes, thoroughly embedded in portland cement mortar and bonded to the terra cotta, the strength of the construction may be determined by accepted engineering formulae. For the purposes of this section, the working stresses, in pounds per square inch, shall be taken at 500 for terra cotta in compression, 16,000 for steel in tension, and 100 for bond between steel and mortar and between terra cotta and mortar.

4. Concrete floor arches. a. Material. When concrete is used as floor filling it shall consist of one part of portland cement, and not more than two parts of sand and five parts of stone, gravel or cinders, reinforced in the case of slab construction with steel as herein provided. The stone or gravel shall be as required for reinforced concrete in article 16 of this chapter. Cinders shall be clean, well burned steamboiler cinders.

b. Reinforcement. When reinforcement is required it shall consist of steel rods or other suitable shapes, or steel fabric. The tensional reinforcement in any case shall be not less than twelve-hundredths per cent. in the case of cold drawn steel fabric, nor less than twenty-five-hundredths per cent. in the case of other forms, the percentage being based on the sectional area of slab above the center of the reinforcement. The center of the reinforcement shall be at least one inch above the bottom of the slab, but in no case shall any part of the reinforcement come within five-eighths of an inch from the bottom of the slab.

c. Segmental form. When the concrete floor filling is used in the form of segmental arches, the thickness shall be at least four inches at the crown. Such arches shall have a rise of not less than one inch for each foot of span.

d. Flat construction. When the concrete floor filling is in the form of slabs the thickness shall be not less than four inches, except as otherwise provided in this article for special roof construction.

e. Strength of concrete slabs. In determining the safe carrying capacities of concrete slab floor fillings the gross load in pounds per square foot of floor surface shall not exceed the product of the depth in inches of the reinforcement below the top of the slab, by the cross-sectional area in square inches per foot of width of the tentional steel, divided by the square of the span in feet, all multiplied by the following co-efficients when cinder concrete is used, 14,000 if the reinforcement is not continuous over the supports, 18,000 if the reinforcement consists of rods or other shapes securely hooked over or attached to the supports, and 26,000 if the reinforcement consists of steel fabric continuous over the supports, and, when stone concrete is used, 16,000, 20,000 and 30,000 respectively.

In determining the safe carrying capacities of concrete floor fillings segmental in form, the compressive stress in pounds per square inch in the concrete shall not exceed 300 for cinder concrete or 500 for stone concrete.

Nothing in this section shall prevent the determination of the safe carrying capacity of any form of concrete floor filling approved as fireproof under the provisions of this article, by the usual methods of calculation, provided the stresses used, in pounds per square inch, shall not exceed 300 for cinder concrete in compression, 16,000 for steel in tension, and 50 for bond between cinder concrete and steel, or, in the case of stone concrete, the values fixed by article 16.

5. Test of floor fillings. a. Fire tests. In testing the fireproof qualities of any floor filling, at least one panel of the proposed maximum span, carrying a live load of at least one hundred and fifty pounds per square foot, shall be subjected to a fire continuous for four hours at an average temperature of seventeen hundred degrees Fahrenheit, followed by an application for not less than ten minutes of a hose stream from a one and one-eighth inch nozzle at sixty pounds pressure, without appreciable deterioration or the passage of flame through the floor during the test.

b. Load tests. When the strength of any floor filling cannot be determined by the methods prescribed in this section or by the application of accepted engineering formulae the safe uniformly distributed carrying capacity shall be taken as one-sixth of the total load causing failure in a full-sized construction with the load applied at two points each at one-third of the span from the ends of the span.

6. Special roof construction. For mansards and dormers, roofs of bulkheads and roofs having a pitch of more than thirty degrees with the horizontal, blocks of terra cotta, stone or cinder concrete, or gypsum containing not more than twenty-five per cent. by weight of cinders, asbestos fibre, wood chips or vegetable fibre, not less than two inches thick, resting on steel shapes spaced not more than one foot for each inch of thickness in the block may be used instead of the construction prescribed by this section for floors and roofs.

7. Tie rods. The supporting beams in fireproof floors and roofs shall be tied together by steel tie rods of proper size, spacing and location, within the limitations fixed by § 308 of this chapter, provided that when the floor filling is in the form of reinforced slabs and the reinforcement is continuous over the supports or securely attached to the same tie rods may be omitted.

8. Span of floor filling. In fireproof buildings the span of any floor filling shall not exceed eight feet except when reinforced concrete or reinforced terra cotta is used.

9. Top filling. In fireproof buildings the space between the floor filling and the flooring shall be filled with concrete, consisting of one part of cement and not more than ten parts of cinders, or with other incombustible material approved by the rules of the superintendent of buildings.

10. Cutting floors. After the floor filling is completed, no opening greater than two square feet shall be cut through said floors unless suitable metal framing or reinforcing is provided around the opening. When pipes or conduits pass through floor fillings the openings around the same shall be filled in solidly with fireproof material unless approved close fitting individual sleeves are provided with space around sleeves filled solidly with incombustible material are provided.

§ 355. Partitions. 1, Materials. Except as otherwise provided in this section or in article 18 of this chapter, partitions hereafter erected in fireproof buildings shall be constructed of the materials and in the manner herein specified:

a. brick in cement mortar;

b. concrete, consisting of one part Portland cement and not more than three parts of sand and six parts of stone or gravel, not less than three inches thick if properly reinforced with steel, nor less than four inches thick otherwise;

c. cinder concrete, consisting of one part Portland cement and not more than three parts of sand and six parts of cinders, not less than four inches thick if properly reinforced with steel, not less than five inches thick otherwise.

d. hollow terra cotta blocks, laid in cement mortar, not less than three inches thick.

e. hollow concrete blocks, of either stone or cinder concrete, laid in cement mortar, not less than three inches thick;

f. solid or hollow blocks consisting of gypsum containing not more than twenty-five per cent. by weight of either cinders, asbestos fibre, wood chips or vegetable fibre, laid in gypsum plaster or cement mortar tempered with lime, not less than three inches thick;

g. metal lath on a steel studding covered with Portland cement mortar of gypsum plaster, of a finished thickness of not less than two inches in the case of solid partitions not less than three inches in the case of hollow partitions; or

h. any material and form of construction that may be approved by the superintendent of buildings as conforming to the requirements of the fire test hereinafter prescribed.

But nothing in this section shall prevent the erection, in the discretion of the superintendent of buildings, of partitions of pressed metal and glass or of temporary partitions of wood and glass within rooms or spaces enclosed by fireproof partitions or walls.

2. Construction. Unless built as approved masonry walls, partitions in fireproof buildings shall be independently supported at each floor. They shall be keyed, or otherwise securely fastened to the ceilings, and, when necessary, shall be stiffened with suitable steel uprights securely fastened to floor and ceiling. Partitions enclosing hallways or toilet rooms and other permanent partitions shall not rest on wood flooring but shall start on the fireproof construction of the floor.

3. Tests of fireproof partitions. In testing the fireproof qualities of any partition construction, a vertical panel not less than fourteen feet long and nine feet high shall be subjected to a fire continuous for not less than one hour at an average temperature of seventeen hundred degrees Fahrenheit during the latter half hour, followed by an application for not less than two and one-half minutes of a hose stream from a one and one-eighth inch nozzle at thirty pounds nozzle pressure, without the passage of flame during the test.

§ 356. Interior finish. 1. General restrictions. Except as hereinafter otherwise permitted no woodwork or other combustible material shall be used in the floors, ceilings, partitions, furrings or other interior finish of fireproof buildings.

2. Woodwork permitted. a. Floor sleepers, door bucks and grounds may be of wood provided that they are not exposed on any side; but this shall not permit the use of anything but lath, furring or forms of metal in ceilings or in ornamental plastering work.

b. When the height of the building does not exceed one hundred and fifty feet the doors and windows and their frames, the trim, casings and other interior finish when filled solid at the back with fireproof material, and the flooring may be of wood.

3. Restrictions in buildings over one hundred and fifty feet high. When the height of the building exceeds one hundred and fifty feet,

a. the flooring shall be of incombustible material, or of fireproofed wood, provided that in public halls and stairways no wood of any kind, except for handrails, shall be used;

b. the inside window frames and sash, doors, trim and other interior finish shall be of metal or wood covered with metal, or of fireproofed wood, or of any incombustible materials or any combination of materials that will show a fire resistance not less than that of fireproofed wood.

4. Fireproofed wood. The superintendent of buildings shall adopt rules prescribing the tests to which fireproofed wood and incombustible materials or any combination of materials shall be subjected. Such rules shall also provide for the inspection and marking of the materials, to insure the installation of tested and approved materials only. No wood or other material required to be tested, shall hereafter be placed in any building exceeding one hundred and fifty feet in height except in conformity to the requirements of this section.

§ 357. Exterior windows. When the height of a fireproof building exceeds one hundred and fifty feet, all exterior window frames and sash shall be of metal, or of wood covered with metal in the manner prescribed by the rules of the superintendent of buildings.

§ 358. Approvals. 1. Existing approvals continued. Any material or form of construction coming under the provisions of this article and heretofore approved may be used for the purposes for which it was approved, except so far as it may be inconsistent with specific provisions of this article.

2. New materials and constructions. Approvals for new materials and forms of construction shall be issued in accordance with the provisions of § 22 of this chapter. Nothing in this chapter shall prevent the superintendent of buildings from accepting duly authenticated tests by any competent person, in lieu of the tests under his own supervision, provided the intent of this article is secured.

[§350. Generally. 1. Structural materials. Fireproof buildings shall be constructed with walls of brick, stone, Portland cement concrete, iron or steel, in which wood beams or lintels shall not be placed, and in which the floors and roofs shall be of materials provided for in § 252 of this chapter.

2. Partitions. All hall partitions or permanent partitions between rooms in fireproof buildings shall be built of fireproof material and shall not be started on wood sills, nor on wooden floor boards, but be built upon the fireproof construction of the floor and extend to the fireproof beam filling above. The tops of all door and window openings in such partitions shall be at least 12 inches below the ceiling line.

3. Protection of metal work. All cast iron, wrought iron or rolled steel columns, including the lugs and brackets on same, used in the interior of any fireproof building, or used to support any fireproof floor, shall be protected with not less than 2 inches of fireproof material, securely applied. The extreme outer edge of lugs, brackets and similar supporting metal may project to within ⅞ of an inch of the surface of the fireproofing.

4. Staircases. The stairs and staircase landing shall be built entirely of brick, stone, Portland cement concrete, iron or steel.

5. Woodwork restricted. No woodwork or other inflammable material shall be used in any of the partitions, furrings or ceilings in any such fireproof buildings, excepting, however, that when the height of the building does not exceed 12 stories nor more than 150 feet, the doors and windows and their frames, the trims, the casings, the interior finish when filled solid at the back with fireproof material, and the floor boards and sleepers directly thereunder, may be of wood, but the space between the sleepers shall be solidly filled with fireproof materials and extend up to the under side of the floor boards.

§ 351. Buildings over 150 feet in height. When the height of a fireproof building exceeds 12 stories, or more than 150 feet, the floor surfaces shall be of stone, cement, rock asphalt, tiling or similar incombustible material, or the sleepers and floors may be of wood treated by some process to render the same fireproof, approved by the superintendent of buildings. All outside window frames and sash shall be of metal, or of wood covered with metal, the inside window frames and sash, doors, trim and other interior finish may be of wood covered with metal, or of wood treated by some process to render the same fireproof, approved by the superintendent of buildings having jurisdiction.

§ 352. Fireproof floors. 1. Construction generally. Fireproof floors shall be

constructed with wrought iron or steel floor beams so arranged as to spacing and length of beams that the load to be supported by them, together with the weights of the materials used in the construction of the said floors, shall not cause a greater deflection of the said beams than 1-30 of an inch per foot of span under the total load; and they shall be tied together at intervals of not more than 8 times the depth of the beam.

2. Brick-arch construction. Between the wrought iron or steel floor beams shall be placed brick arches springing from the lower flange of the steel beams. Said brick arches shall be designed with a rise safely to carry the imposed load, but never less than 1¼ inches for each foot of span between the beams, and they shall have a thickness of not less than 4 inches for spans of 5 feet or less and 8 inches for spans over 5 feet, or such thickness as may be required by the superintendent of buildings. Said brick arches shall be composed of good, hard brick or hollow brick of ordinary dimensions laid to a line on the centres, properly and solidly bonded, each longitudinal line of brick breaking joints with the adjoining lines in the same ring and with the ring under it when more than a 4-inch arch is used. The brick shall be well wet and the joints filled in solid with cement mortar. The arches shall be well grouted and properly keyed.

3. Hollow-tile construction. Or the space between the beams may be filled in with hollow tile arches of hard burnt clay or porous terra-cotta of uniform density and hardness of burn. The skewbacks shall be of such form and section as to properly receive the thrust of said arch; and the said arches shall be of a depth and sectional area to carry the load to be imposed thereon, without straining the material beyond its safe working load, but said depth shall not be less than 1¾ inches for each foot of span, not including any portion of the depth of the tile projecting below the under side of the beams, a variable distance being allowed of not over 6 inches in the span between the beams, if the soffits of the tile are straight; but if said arches are segmental, having a rise of not less than 1¼ inches for each foot of span, the depth of the tile shall not be less than 6 inches. The joints shall be solidly filled with cement mortar as required for common brick arches and the arch so constructed that the key block shall always fall in the central portion. The shells and webs of all end construction blocks shall abut, one against another.

4. Concrete arches. Or the space between the beams may be filled with arches of Portland cement concrete, segmental in form, and which shall have a rise of not less than 1¼ inches for each foot of span between the beams. The concrete shall not be less than 4 inches in thickness at the crown of the arch and shall be mixed in the proportions required by § 24 of this chapter. These arches shall in all cases be reinforced and protected on the under side with corrugated or sheet steel, steel ribs, or metal in other forms weighing not less than 1 pound per square foot and having no openings larger than 3 inches square.

5. Tile, slab or fire-proof composition construction. Or between the said beams may be placed solid or hollow burnt clay, stone, brick or concrete slabs in flat or curved shapes, concrete or other fireproof composition may be used in composition, and any of said materials may be used in combination with wire cloth, expanded metal, wire strands, or wrought iron or steel; but in any such construction and as a precedent condition to the same being used, tests shall be made as herein provided by the manufacture thereof under the direction and to the satisfaction of the superintendent of buildings and evidences of the same shall be kept on file in the bureau of buildings, showing the nature of the test and the result of the test.

6. Test of construction. The tests referred to in the preceding subdivision of this section shall be made by constructing within inclosure walls a platform consisting of 4 rolled steel beams, 10 inches deep, weighing each 25 pounds per linear foot, and placed 4 feet between the centres, and connected by transverse tie-rods, and with a clear span of 14 feet for the 2 interior beams and with the 2 outer beams supported on the side walls throughout their length, and with both a drilling between the said beams, and a fireproof protection of the exposed parts of the beams of the system to be tested, constructed as in actual practice, with the quality of material ordinarily used in that system and the ceiling plastered below, as in a finished job; such filling between the 2 interior beams being loaded with a distributed load of 150 pounds per square foot of its area and all carried by such filling; and subjecting the platform so constructed to the continuous heat of a wood fire below, averaging not less than 1,700 degrees Fahrenheit for not less than 4 hours, during which time the platform shall have remained in such condition that no flame will have passed through the platform or any part of the same, and that no part of the load shall have fallen through, and that the beams shall have been protected from the heat to the extent that after applying to the under side of the platform at the end of the heat test a stream of water directed against the bottom of the platform and discharged through a 1⅛ nozzle under 60 pounds pressure for five minutes, and after flooding the top of the platform with water under low pressure, and then again applying the stream of water through the nozzle under the 60 pounds of pressure to the bottom of the platform for 5 minutes, and after a total load of 600 pounds per square foot uniformly distributed over the middle bay shall have been applied and removed, after the platform shall have cooled, the maximum deflection of the interior beams shall not exceed 2½ inches. The several superintendents of buildings may from time to time prescribe additional or different tests than the foregoing for systems of filling between iron or steel floor beams, and the protection of the exposed parts of the beams. Any system failing to meet the requirements of the test of heat, water and weight, as herein prescribed, shall be prohibited from use in any building hereafter erected. Duly authenticated records of the tests heretofore made of any system of fireproof floor filling and protection of the exposed parts of the beams may be presented to the superintendent of buildings, and, if the same be satisfactory to him, it shall be accepted as conclusive.

7. Filling in. On top of any arch, lintel or other device which does not extend to and from a horizontal line with the top of the said floor beams, cinder concrete or other suitable fireproof material shall be placed to solidly fill up the space to a level with the top of the said floor beams, and shall be carried to the under side of the wood floor boards in case such be used.

8. Centering. Temporary centering when used in placing fireproof systems between floor beams, shall not be removed within 24 hours or until such time as the mortar or material has set.

9. Protection against freezing. No filling of any kind which may be injured by frost shall be placed between said floor beams during freezing weather, and if the same is so placed during any winter months, it shall be temporarily covered with suitable material for protection against being frozen.

10. Floor openings to be fire-stopped. Openings through fireproof floors for pipes, conduits and similar purposes shall be shown on the plans. After the floors are constructed no opening greater than 8 inches square shall be cut through said floors, unless properly boxed or framed around with iron. And such openings shall be filled in with fireproof material, after the pipes or conduits are in place.

11. Protection of metal work. The bottom flanges of all wrought iron or rolled steel floor and flat roof beams, and all exposed portions of such beams below the abutments of the floor arches shall be entirely encased with hard-burnt clay, porous terra-cotta or other fireproof material allowed to be used for the filling between the beams under the provisions of this section, such incasing material to be properly secured to the beams. The exposed sides and bottom plates or flanges of wrought iron or rolled steel girders supporting iron or steel floor beams, or supporting floor arches or floors, shall be entirely encased in the same manner.

12. Working load. All fireproof floor systems shall be of sufficient strength to safely carry the load to be imposed thereon without straining the material in any case beyond its safe working load.]

Section 2. Nothing in this ordinance shall prohibit the use of material already fabricated or of any construction already erected, which conforms to previously existing statutes, but this shall not be construed to permit the continuance of any construction erected in violation of any statute previously in force, nor to prevent the collection of any penalty heretofore incurred.

Section 3. This ordinance shall take effect three months after its adoption by the Board of Aldermen.

ANTHONY J. McNALLY, LAUREN CARROLL, ALEX. DUJAT, JACOB BARTSCHERER, WM. BRUSH, JOHN DIEMER, JOHN KOCHENDORFER, CHARLES P. COLE, Committee on Buildings.

Which was laid over.

No. 1878—(G. O. No. 712).

Report of the Committee on Buildings in Favor of Adopting Ordinance Relative to Reinforced Concrete Construction.

The Committee on Buildings, to which was referred on June 15, 1915 (Minutes, page 799), the annexed ordinance relative to reinforced concrete construction, respectfully

REPORTS:

That it has held a public hearing on this subject, and has taken under consideration certain suggestions made at said hearing, which have been incorporated in the substitute ordinance submitted herewith. It believes this substitute to be so formed as to properly regulate this style of construction, and it recommends that the said substitute ordinance be adopted.

SUBSTITUTE.

AN ORDINANCE Relative to Reinforced Concrete Construction in The City of New York.

Be It Ordained by the Board of Aldermen of the City of New York, as follows:

Section 1. Chapter 5 of the Code of Ordinances of The City of New York is hereby amended by inserting therein an article known as Article 16, Reinforced Concrete construction, as follows:

Article 16.

Reinforced Concrete Construction.

Section 330. *Definitions.*
331. *Application.*
332. *Concrete.*
333. *Reinforcement.*
334. *Working stresses.*
335. *Slabs and beams.*
336. *Use of fillers in floor construction.*
337. *Columns.*
338. *Walls.*
339. *Protection of reinforcement.*
340. *Load tests.*
341. *Rules.*

§ 330. *Definitions. For the purposes of this article*

a—reinforced concrete means any construction in accordance with the provisions of this article, of approved concrete in which steel is imbedded in such a manner as to increase its strength;

b—the span of beams and slabs means the distance from centre to centre of supports, but not necessarily exceeding the clear span plus the depth of beam or slab, provided that brackets shall not be considered as reducing the clear span;

c—the length of columns means the maximum unsupported length;

d—the effective area of a concrete column with lateral reinforcement means the area of concrete within the hoops or bands.

§ 331. *Application. Reinforced concrete may be used for all types of construction, provided the material and design conform to the requirements of this article and such rules as may be adopted by the superintendent of buildings to secure safety in construction and uniformity in practice.*

§ 332. *Concrete. 1. Mixture. The concrete for reinforced concrete structures shall consist of a wet mixture of one part of Portland cement to not more than six parts of aggregate, fine and coarse, either in the proportion of one part of cement, two parts of fine aggregate and four parts of coarse aggregate, or in such proportion that the resistance of the concrete to crushing shall not be less than two thousand pounds per square inch after hardening for twenty-eight days.*

2. Aggregate. a—Fine. Fine aggregate shall consist of sand, crushed stone or gravel screenings, passing when dry a screen having one-quarter-inch diameter holes, and not more than six per cent. passing a sieve having one hundred meshes per lineal inch, and of such quality that mortars composed of one part Portland cement and three parts fine aggregate by weight when made into briquettes will show a tensile strength of at least two hundred and forty pounds per square inch at twenty-eight days.

b.—Coarse. Coarse aggregate shall consist of crushed stone or gravel which is retained on a screen having one-quarter-inch diameter holes and graded in size from small to large particles. The maximum size shall be such that all the aggregate will pass through a one-inch diameter ring. All aggregate shall be clean, hard, durable, and free from deleterious material.

§ 333. *Reinforcement. The steel reinforcement shall conform to such requirements as may be adopted by the superintendent of buildings, or, in the absence of such requirements, to the standard specifications of the American Society for Testing Materials for steel reinforcement bars. Nothing herein contained shall prevent the use of steel wire or fabric for the reinforcement of slabs, for lateral reinforcement of columns, or for resistance to shrinkage and temperature stresses.*

§ 334. *Working stresses. Reinforced concrete structures shall be so designed that the stresses in pounds per square inch shall not exceed the following:*

Extreme fibre stress on concrete in compression	650,
Concrete in direct compression	500,
Shearing stress in concrete when all diagonal tension is resisted by steel	150,
Shearing stress in concrete when diagonal tension is not resisted by steel	40,
Bond stress between concrete and plain reinforcement	80,
Bond stress between concrete and approved deformed bars	100,
Tensile stress in steel reinforcement	16,000,
Tensile stress in cold drawn steel wire or fabric, 35 per cent. of the elastic limit but not more than	20,000,

In continuous beams the extreme fibre stress on concrete in compression may be increased fifteen per cent. adjacent to supports.

The ratio of the moduli of elasticity of 1:2:4 stone or gravel concrete and steel shall be taken as one to fifteen. The ratio of the moduli of elasticity of 1:1/2:3 stone or gravel concrete and steel shall be taken as one to twelve.

§ 335. *Slabs and beams. 1. Thickness. Slabs shall not be less than four inches in thickness for floors and three and one-half inches for roofs.*

2. Tee-beams. Where adequate bond between slab and web of beam is provided, the slab may be considered as an integral part of the beam provided its effective width shall not exceed on either side of the beam one-fourth of the span length of the beam nor be greater than four times the thickness of the slab on either side of the beam, the measurements being taken from edge of web.

3. Placing of reinforcement. All reinforcement shall be accurately located and secured against displacement. The reinforcement for slabs shall not be spaced farther apart than two and one-half times the thickness of the slab.

4. Web reinforcement. Members of web reinforcement shall be so designed as to adequately take up throughout their length all stresses not taken up by the concrete. They shall not be spaced to exceed three-fourths of the depth of the beam in that portion where the web stresses exceed the allowable value of concrete in shear. Web reinforcement, unless rigidly attached, shall be placed at right angles to the axis of the beam and carried around the tension members.

§ 336. *Use of fillers in floor construction. When hollow tile, concrete blocks or other acceptable fillers are used in any reinforced concrete floor construction, the reinforced concrete members of such floor construction shall be designed in accordance with the provisions of this article to take the entire loads, provided, however, that, when the fillers do not exceed sixty per cent. of the construction, not more than two and one-half inches of concrete shall be required over the fillers.*

§ 337. *Columns. 1. With longitudinal reinforcement only. In concrete columns, having not less than one-half nor more than four per cent. of vertical reinforcement secured against lateral displacement by one-quarter-inch steel ties placed not farther apart than fifteen diameters of the vertical rods nor more than twelve inches, the allowable load shall be five hundred pounds per square inch on the concrete, plus seven thousand five hundred pounds on the vertical reinforcement.*

2. With longitudinal and lateral reinforcement. In concrete columns, having not less than one-half nor more than two per cent. of hoops or spirals spaced not farther apart than one-sixth of the diameter of the enclosed column nor more than three inches, and having not less than one nor more than four per cent. of vertical reinforcement, the allowable load shall be five hundred pounds per square inch on the effective area of the concrete, plus seven thousand five hundred pounds per square inch on the vertical reinforcement, plus a load per square inch on the effective area of the concrete equal to two times the percentage of lateral reinforcement multiplied by the tensile stress in the lateral reinforcement prescribed by § 334 of this article. The percentage of lateral reinforcement being the volume of the hoops or spirals divided by the volume of the enclosed concrete in a unit length of column. The hoops or spirals shall be rigidly secured to at least four verticals to insure uniform spacing.

3. Structural steel and concrete. In columns of structural steel, thoroughly encased in concrete not less than four inches thick and reinforced with not less than one per cent. of steel, the allowable load shall be sixteen thousand pounds per square inch on the structural steel. The percentage of reinforcement being the volume of the reinforcing steel divided by the volume of the concrete enclosed by the reinforcing steel.

Not more than one-half of the reinforcing steel shall be placed vertically. The reinforcing steel shall not be placed nearer than one inch to the structural steel or to the outer surface of the concrete. The ratio of length to least radius of gyration of structural steel section shall not exceed one hundred and twenty.

4. *When richer concrete is used. In concrete columns the compression on the concrete may be increased twenty per cent. when the fine and coarse aggregates are carefully selected and the proportion of cement to total aggregate is increased to one part of cement to not more than four and one-half parts of aggregate, fine and coarse, either in the proportion of one part of cement, one and one-half parts of fine aggregate and three parts of coarse aggregate, or in such proportion as will secure the maximum density. In such cases, however, the compressive stress in the vertical steel shall not exceed seven thousand two hundred pounds per square inch.*

5. *Eccentric loads. Bending stresses due to eccentric loads shall be provided for by increasing the section of concrete or steel until the maximum stress shall not exceed the allowable working stress.*

6. *Length. In columns, the ratio of length to least side or diameter shall not exceed fifteen, but in no case shall the least side or diameter be less than twelve inches.*

§ 338. *Walls. Enclosure walls of reinforced concrete shall be securely anchored at all floors. The thickness shall not be less than one-twentieth of the unsupported height, but in no case less than eight inches. The steel reinforcement, running both horizontally and vertically, shall be placed near both faces of the wall; the total weight of such reinforcement shall be not less than one-half pound per square foot of wall.*

§ 339. *Protection of reinforcement. The reinforcement in columns and girders shall be protected by a minimum of two inches of concrete; in beams and walls by a minimum of one and one-half inches; in floor slabs by a minimum of one inch; and in footings by a minimum of four inches of concrete.*

§ 340. *Load tests. The builder may be required to make load tests on any portion of a reinforced concrete structure within a reasonable time after erection. The tests shall be made under the direction of the superintendent of buildings, and shall show that the construction will sustain safely a load of one and three-quarter times the live load for which it was designed.*

§ 341. *Rules. The rules governing reinforced concrete in building construction, heretofore adopted by the superintendent of buildings, so far as they are consistent with the provisions of this article, shall remain effective until amended or repealed by the superintendent of buildings.*

Section 2. When effective. This ordinance shall take effect three months after its adoption by the Board of Aldermen.

ANTHONY J. McNALLY, LAUREN CARROLL, ALEX. DUJAT, JACOB BARTSCHERER, JOHN DIEMER, JESSE D. MOORE, Committee on Buildings.

Which was laid over.

Reports of Committee on Finance—

No. 1718—(S. O. No. 230).

Report of the Committee on Finance in Favor of Adopting Resolution for $2,000 Special Revenue Bonds for Purchase of Equipment by the District Attorney of Queens County.

The Committee on Finance, to which was referred on May 14, 1915 (Minutes, page 358), the annexed request of the District Attorney of Queens County for $2,000 Special Revenue Bonds for the purchase of equipment, respectfully

REPORTS:

That, having examined the subject, it believes the proposed allowance to be necessary. The reasons for the request are set forth in the letter of application.

The Committee recommends that the accompanying resolution be 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 dollars ($2,000), the proceeds whereof to be used by the District Attorney of Queens County for the purpose of purchasing office equipment. All obligations incurred hereunder to be contracted for on or before December 31, 1915.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, FRANK J. DOTZLER, JESSE D. MOORE, F. H. WILMOT, C. AUGUSTUS POST, FRANCIS P. KENNEY, Committee on Finance.

District Attorney's Office, Queens County, N. Y., Long Island City, April 27th, 1915.

Hon. GEORGE McANENY, *President, The Board of Aldermen,* City of New York:

Dear Sir—I hereby request the issuance of special revenue bonds to the amount of $2,000 for the purchase of equipment for this office. The 1915 budget appropriation for Purchase of Equipment (Code. No. 3539) was $400. There is now a balance of only $5.17 in this fund, while at present we have bills aggregting $21 chargeable to this fund which cannot be forwarded to the Comptroller for audit because of the small balance in Code No. 3539. Other equipment will be needed from time to time during the remainder of the year, and I wish to have installed at an early date a flat filing system in steel cabinets for the filing of Magistrates' informations, indictments, exhibits, etc., in all cases before, during and after trial. Such a system of filing is absolutely necessary for the proper conduct of the office, and I do not consider the amount herein asked for to be in excess of what will be required for these purposes for the remaining eight months of 1915. Yours very truly,

DENIS O'LEARY, District Attorney.

Which was laid over.

No. 1741 and 1776.

Report of the Committee on Finance in Favor of Referring Request for $20,070 for Wages in the Department of Public Charities to the Board of Estimate and Apportionment.

The Committee on Finance, to which was referred on May 11 and 25, 1915 (Minutes, pages 441 and 546), a request from the Commissioner of Public Charities for $20,070 Special Revenue Bonds, and a communication from the Municipal Civil Service Commission in relation thereto, respectfully

REPORTS:

That after consideration of this matter it finds that the law has not been changed since the 1915 budget was made. It believes that the matter should be referred to the Board of Estimate and Apportionment for either obtaining the small amount of money necessary for the purpose by transfer, or for consideration with the 1916 budget, and it, therefore, recommends that the said resolution be so referred.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, FRANK J. DOTZLER, JESSE D. MOORE, F. H. WILMOT, C. AUGUSTUS POST, FRANCIS P. KENNEY, Committee on Finance.

Department of Public Charities of The City of New York, Municipal Building, Tenth Floor, April 30, 1915.

Re Hospital Helpers.

To the Honorable the Board of Aldermen:

Gentlemen—Request is hereby made for an issue of special revenue bonds in the sum of $20,070 to pay salaries from July 1 to December 31, 1915, of help needed to replace Hospital Helpers employed in the Central Offices, Manhattan and Brooklyn Boroughs, and in the Bureau of Dependent Adults and Children's Bureau, Borough of Manhattan.

Under date of March 10, 1915, the Municipal Civil Service Commission wrote that "Hospital Helpers may be assigned only to appropriate work within institutions. Under no circumstances may they be assigned to work outside of institutions or in the Central Offices of Departments." Also, "that unless assignments are corrected within a reasonable time it will not be able to approve the payrolls of your Department." The Civil Service Commission have been pushing us on this matter, and on April 22 wrote asking what progress was being made. It is, therefore, necessary to replace the Hospital Helpers employed in the Central Offices and Bureaus of the Department with eligibles from Civil Service Lists in order to comply with this request.

The following is a schedule showing the present number of Hospital Helper incumbents, their salaries and work being performed, and the new schedule of positions and salaries required in the several offices and bureaus above mentioned, to conform to the rules and regulations as set forth by the Municipal Civil Service Commission:

Code 1938—*Administration.*

Present Title.	Number.	Salary.	Nature of Work Performed.
Hospital Helper	1	$720 00	Stenographic and typewriting
Hospital Helper	5	600 00	Stenographic and typewriting
Hospital Helper	2	480 00	Stenographic and typewriting
Hospital Helper	1	360 00	Stenographic and typewriting
Hospital Helper	1	600 00	Clerical
Hospital Helper	2	480 00	Clerical
Hospital Helper	1	420 00	Clerical
Hospital Helper	1	600 00	Operating switchboard
Hospital Helper	1	720 00	Chauffeur
Hospital Helper	1	600 00	Chauffeur
Hospital Helper	1	300 00	Cleaning
Hospital Helper	1	240 00	Cleaning
		$9,480 00	

Code 1941—*Bureau Dependent Adults—Manhattan.*

Hospital Helper	1	$720 00	Employing help
Hospital Helper	1	720 00	Stenographic and typewriting
Hospital Helper	2	600 00	Stenographic and typewriting
Hospital Helper	2	480 00	Stenographic and typewriting
Hospital Helper	1	720 00	Clerical
Hospital Helper	1	600 00	Clerical
Hospital Helper	10	480 00	Clerical
Hospital Helper	1	360 00	Clerical
Hospital Helper	1	600 00	Driving
Hospital Helper	1	480 00	Orderly (acting interpreter)
Hospital Helper	1	480 00	Janitor
Hospital Helper	2	360 00	Cleaning
Hospital Helper	1	300 00	Cleaning
Hospital Helper	1	180 00	Cleaning
		$12,840 00	

Code 1942—*Children's Bureau—Manhattan.*

Hospital Helper	5	$480 00	Clerical
Hospital Helper	1	480 00	Operating switchboard
Hospital Helper	1	240 00	Cleaning
		$3,120 00	

Code 1943—*Central Office—Brooklyn.*

Hospital Helper	1	$600 00	Clerical
Hospital Helper	9	480 00	Clerical
Hospital Helper	1	600 00	Stenographic and typewriting
Hospital Helper	1	360 00	Stenographic and typewriting
Hospital Helper	1	300 00	Cleaning
		$1,180 00	
Total		$31,620 00	

Proposed title and salary of persons to be appointed from Civil Service Eligible List:

Code 1938—*Administration.*

Stenographer and Typewriter	$900 00	
Stenographer and Typewriter, 8 at $720 each	5,760 00	
Clerk, 3 at $600 each	1,800 00	
Clerk	600 00	
Telephone Operator	720 00	
Auto-Engineman, 2 at $720 each	1,440 00	
Cleaner, 2 at $360 each	720 00	
		$11,940 00

Code 1941—*Bureau Dependent Adults—Manhattan.*

Employment Agent	$1,200 00	
Stenographer and Typewriter	720 00	
Stenographer and Typewriter, 4 at $720 each	2,880 00	
Clerk, 12 at $600 each	7,200 00	
Clerk	600 00	
Driver	600 00	
Interpreter	1,200 00	
Janitor	720 00	
Cleaner, 4 at $360 each	1,440 00	
		16,560 00

Code 1942—*Children's Bureau—Manhattan.*

Clerk, 5 at $600 each	$3,000 00	
Telephone Operator	480 00	
Cleaner	360 00	
		3,840 00

Code 1943—*Central Office—Brooklyn.*

Clerk, 10 at $600 each	$6,000 00	
Stenographer and typewriter, 2 at $720 each	1,440 00	
Cleaner	360 00	
		7,800 00
Total		$40,140 00
Amount required for six months		$20,070 00

Respectfully yours, JOHN A. KINGSBURY, Commissioner.

Municipal Civil Service Commission of The City of New York, Municipal Building, Center and Chambers Streets, New York, May 17, 1915.

Honorable Board of Aldermen of the City of New York:

Gentlemen—We have been informed that on April 30th, the Commissioner of Public Charities requested the Board of Aldermen for an issue of spcial revenue bonds in the sum of $20,070 to pay salaries from July 1st to December 31, 1915, of help needed to replace Hospital Helpers employed in central offices of the department.

The Municipal Civil Service Commission is not able to pass upon the question of whether the particular sum requested is the proper sum to appropriate for this purpose. It directs me, however, to urge that the necessary action be taken in order to permit the Department of Public Charities to pay the salaries of the help needed to replace these Hospital Helpers. The action of the department is taken at the request of the Municipal Civil Service Commission, the Commission after investigation having reached the conclusion that the assignment of Hospital Helpers to the services covered in the request of the Commissioner of Public Charities dated April 30th were improper assignments and contrary to the provisions of the Civil Service Law. The Commission is empowered under the Civil Service Law to refuse to certify the payrolls of any employes who are improperly assigned. It has, however, allowed the Department of Public Charties, as it has other departments, a reasonable length of time to secure the necessary budget appropriations to provide for such corrections.

It will not, however, approve the payrolls of any of the Hospital Helpers assigned to work outside of institutions after July 1st, 1915.

Respectfully, ROBT. W. BELCHER, Secretary.

Which report was accepted.

No. 1768.

Report of the Committee on Finance in Favor of Filing Request to Pay a Fourth of July Bill for 1914.

The Committee on Finance, to which was referred on May 25, 1915 (Minutes, page 540), a request from the New York City 4th of July Committee for the payment of a bill of Annin & Co., respectfully

REPORTS:

That this bill has been paid by the Department of Education. It therefore recommends that the said paper be placed on file.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, FRANK J. DOTZLER, JESSE D. MOORE, F. H. WILMOT, C. AUGUSTUS POST, FRANCIS P. KENNEY, Committee on Finance.

Which report was accepted.

No. 1798B.

Report of the Committee on Finance in Favor of Filing Resolution for $2,000 Special Revenue Bonds for a Subscription to a Utilities Bureau Under a Conference of American Mayors.

The Committee on Finance, to which was referred on May 25, 1915 (Minutes page 563), the annexed resolution in favor of an appropriation of $2,000 Special Revenue Bonds to provide for a subscription to a Utilities Bureau, under the auspices of a conference of American Mayors, respectfully

REPORTS:

That, having examined the subject, it does not believe the proposed appropriation to be one which should be approved by the Board. It therefore recommends that the said resolution be placed on file.

Resolved, That the Board of Estimate and Apportionment hereby recommends that the Board of Aldermen adopt a resolution requesting the Eoard of Estimate and Apportionment to authorize the Comptroller to issue special revenue bonds of The City of New York, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to the amount of two thousand five hundred dollars ($2,500), to provide for the City's subscription, for the year 1915, of $500 to the Conference of Mayors of the State of New York and the Bureau of Municipal Information, and $2,000 to the Utilities Bureau, under the auspices of the Conference of American Mayors.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, FRANK J. DOTZLER, JESSE D. MOORE, F. H. WILMOT, C. AUGUSTUS POST, FRANCIS P. KENNEY, Committee on Finance.

Which report was accepted.

No. 1884—(S. O. No. 231).

Report of the Committee on Finance in Favor of Adopting Resolution for $70,870.75 Special Revenue Bonds for Deficit in the Department of Correction.

The Committee on Finance, to which was referred on June 22, 1915 (Minutes, page 810), a request of the Commissioner of Correction for $188,322 Special Revenue Bonds to meet anticipated deficit, supplemented by a reduced request for $141,741.50, which is hereto attached, respectfully

REPORTS:

That, having examined the subject, it believes an additional allowance to be necessary. The Commissioner states that one-half of the supplemental request will carry the department well into the fall, and the Committee has reduced the request on this basis.

It recommends that the accompanying resolution be 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 seventy thousand eight hundred and seventy dollars and 75 cents ($70,870.75) the proceeds whereof to be used by the Department of Correction for the purpose of meeting deficits in appropriations for 1915, as follows:

Code No. 2651	Food Supplies	$44,437 50
Code No. 2652	Forage and Veterinary Supplies	1,050 00
Code No. 2655	Medical and Surgical Supplies	1,781 25
Code No. 2656	Laundry, Cleaning and Disinfecting Supplies	937 50
Code No. 2658	Refrigerating Supplies	131 25
Code No. 2659	Botanical and Agricultural Supplies	1,000 00
Code No. 2660	General Plant Supplies	375 00
Code No. 2662	Household Equipment	3,000 00
Code No. 2663	Medical and Surgical Equipment	2,250 00
Code No. 2664	Wearing Apparel	6,750 00
Code No. 2668	General Plant Equipment	1,190 62
Code No. 2669	General Plant Materials	3,375 00
Code No. 2670	General Repairs	3,917 63
Code No. 2676	Motor Vehicle Repairs	112 50
Code No. 2677	Contingencies	562 50
		$70,870 75

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, FRANK J. DOTZLER, JESSE D. MOORE, F. H. WILMOT, C. AUGUSTUS POST, FRANCIS P. KENNEY, Committee on Finance.

Department of Correction of the City of New York, Commissioner's Office, Municipal Building, Centre and Chambers Streets, New York, June 28, 1915.

Hon. GEORGE MCANENY, *President, Board of Aldermen:*

Dear Sir—I transmit herewith an amended request in the amount of $141,741.50, which is in substitution for our request dated May 20, 1915, for $188,322, which is now withdrawn.

This reduction has been made possible only because we have made a reduction in the estimated population for this year from 7,000 to 6,500. I particularly wish to emphasize the fact that if our census goes above this number, 6,500, it will be necessary for us to make another request for Special Revenue Bonds in addition to the request now submitted. And it is extremely probable that the census will be greater than is contemplated by our present estimate. Respectfully,

KATHARINE BEMENT DAVIS, Commissioner.

Department of Correction of The City of New York, Commissioner's Office, Municipal Building, Centre and Chambers Streets, New York, June 28, 1915.

Hon. GEORGE MCANENY, *President of the Board of Aldermen of The City of New York:*

Sir—Pursuant to the provisions of subdivision 8, section 188 of the Charter, I respectfully ask that your honorable Board will request the Board of Estimate and Apportionment to authorize the issue of special revenue bonds to the amount of one hundred and forty-one thousand seven hundred and forty-one dollars and fifty cents ($141,741.50), for the use of the Department of Correction during the current year, for the reasons and for the requirements as enumerated in the following:

In the year 1913 the annual per capita inmate cost was $282.90. In the year 1914 it was reduced to $244.37, although the institutional service was considerably bettered. This is the more striking in view of the fact that in the past five years, 1910 to 1914, inclusive, the inmate population of the department has increased 37.8 per cent., whereas the appropriations, including revenue bonds, have only increased 2.9 per cent.

This application must not be considered as an application tending to increase the annual per capita cost. It is made necessary, however, by the fact that the average inmate population, as contemplated by the allowances in the Budget for the year 1915, will be greatly exceeded.

The Budget provision for the Department of Correction for the year 1915 was based upon an estimated daily average census of 5,000 inmate population. It is estimated that, due to the abnormal rise in the population of the institutions which began in the latter part of the year 1914, the average daily inmate census for this year will approximate 6,500. The actual average census for the first six months of this year, estimating May and June at the low figure of 6,400, would give an average census of 6,668. The average census for the last six months of the year 1914 showed an increase of 16 per cent. over the average census for the first six months. *The same rate of increase would give an average census of 7,734 for the last six months of the year 1915, or an average census for the whole year of 7,200. We are, however, only estimating the absolute minimum inmate population which can possibly be expected, namely, 6,500. It is extremely probable that the census will far exceed this estimate.*

It would seem, therefore, that the census of the year 1915 must now be approximated at an increase of 30 per cent. over that allowed by budgetary provision; hence this application, as now submitted.

Detailed schedules of quantities have been prepared which support in detail the requests as now submitted. These, however, are not included in this request on account of their cumbrous character. Our request is constituted as follows:

Schedule of Appropriations.

Code No. 2651	Food Supplies	$88,875 00
Code No. 2652.	Forage and Veterinary Supplies	2,100 00
Code No. 2655	Medical and Surgical Supplies	3,562 50
Code No. 2656	Laundry, Cleaning and Disinfecting Supplies	1,875 00
Code No. 2658	Refrigerating Supplies	262 50
Code No. 2659	Botanical and Agricultural Supplies	2,000 00
Code No. 2660	General Plant Supplies	750 00
Code No. 2662.	Household Equipment	6,000 00
Code No. 2663	Medical and Surgical Equipment	4,500 00
Code No. 2664	Wearing Apparel	13,500 00
Code No. 2668	General Plant Equipment	2,381 25
Code No. 2669	General Plant Materials	6,750 00
Code No. 2670	General Repairs	7,835 25
Code No. 2676	Motor Vehicle Repairs	225 00
Code No. 2677	Contingencies	1,125 00
		$141,741 50

Code No. 2651—Food Supplies, $88,875.

The allowance for food in the 1915 Budget is based upon a per capita per diem allowance of 16 cents for inmates. An average census of 5,000 was estimated. Upon a basis of 6,500 an additional amount of $87,600 will be necessary.

Thirty additional keepers upon a per capita per diem allowance of 31 cents amounts to $3,395.50, but half of this amount, or a round sum of $1,700, is requested, as it is not expected that each keeper will receive full maintenance.

Code No. 2652—Forage and Veterinary Supplies, $2,100.

The allowance in the Budget for 1915 for Forage and Veterinary Supplies is $10,517.05. The expenditures, however, for the six months ending June 30, 1915, will approximate $6,675. This will represent an annual expense of $13,370. The request is made for $2,100, so that a deficit in this account may be avoided.

Code No. 2655—Medical and Surgical Supplies, $3,562.50.

The allowance in the Budget for 1915 for Medical and Surgical Supplies is $7,264. An increase of thirty per cent. for an estimated inmate population of 6,500, instead of 5,000, would represent $2,178.75. However, our drug issue for the three months ending March 31st has been much greater than was allowed and it is necessary to make a request for an increase of the appropriation under this Code in addition to the proportionate amount made necessary by the estimated increased average census. It may be mentioned that 4,424 persons were committed to the institutions in the year 1914 for violation of the various drug acts. In addition to this it must be remembered that the majority of the inmates, otherwise committed, are users of drugs, cocaine, morphine, opium and heroin.

The hospital accommodations at the New York City Reformatory have been materially extended within the past two or three months and a new hospital building is in course of construction at the Branch Workhouse, Hart's Island. This building is expected to be completed in or about September next. The extension of hospital accommodations naturally tends to a greater use of medical and surgical supplies.

Code No. 2656—Laundry, Cleaning and Disinfecting Supplies, $1,875.

The amount allowed in the Budget for 1915 for Laundry, Cleaning and Disinfecting Supplies is $7,600. Thirty per cent. of this amount would be $2,280. However, it is estimated that with economy $1,875 will suffice, so request is made for this amount. The further use of brown soap and laundry starch will, it is estimated, cost over $1,500. A larger use of disinfectants is also expected on account of the increased population and accommodation.

Code No. 2658—Refrigerating Supplies, $262.50.

The amount allowed in the Budget for 1915 for Refrigerating Suppiles is $2,000. The increase of the census will increase our demands, but not proportionately, and it is estimated that an additional amount of $262.50 will be sufficient to take eare of the increase of population.

Code No. 2659—Botanical and Agricultural Supplies, $2,000.

The amount allowed in the Budget is $5,000, practically all of which has already been expended. A request is made therefore for $2,000 in order that manure may be purchased in the fall and matured for the next spring tilling. This method of purchasing manure would effect an economy of approximately one hundred per cent. and would give better results than the present method of purchasing and using manure, which is to buy matured manure at the time of use.

Code No. 2660—General Plant Supplies, $750.

$4,304.85 is allowed in the 1915 Budget for General Plant Supplies. This appropriation is affected materially by the inmate population. It is not expected, however, on a review of the expenditures, that this appropriation will be affected proportionately to the increase of population, which would represent an increase of $1,290. It is believed that an additional $750 will be sufficient. The items purchasable out of this appropriation are of very varied and miscellaneous character, the detail of which it is not possible definitely to estimate for a long period. An estimate of the further quantities necessary of ten of the stock items coming under the classification of this account amounts to over $400.

Code No. 2662—Household Equipment, $6,000.

The 1915 Budget allowance for Household Equipment is $20,606.40. On account of the increased population increased appropriation will be necessary to the extent of $6,000, which represents a slightly less increase of the appropriation as compared with the increase of the estimated average census. Blankets, table ware and household materials constitute a big item of this estimate, amounting to over $6,000. With the extension of accommodation, which will be made necessary by the expected heavy census in the fall, there will also be a variety of articles necessary which will come under the classification of this appropriation.

Code No. 2663—Medical and Surgical Equipment, $4,500.

$800 is allowed for Medical and Surgical Equipment in the 1915 Budget. However, a new hospital ward has been opened at the New York City Reformatory and a new hospital building is in course of construction at the Branch Workhouse, Hart's Island, and to equip these new hospital accommodations an equipment that will entail a cost of $4,500 will be necessary.

Code No. 2667—Wearing Apparel, $13,500.

The appropriation in the 1915 Budget for Wearing Apparel is $60,138.20. Thirty per cent. of this appropriation would be $18,041.46. However, an amount of only $13,500 is requested.

Code No. 2668—General Plant Equipment, $2,381.25.

The amount allowed in the 1915 Budget for General Plant Equipment is $7,939.19, of which only $2,100.18 was unexpended on May 1st. Most of the items included in this account are affected by the status of the population. In addition to the requirements made necessary by the increase of population there is a need for new coal scales, not contemplated in the original Budget allowance. An amount of $2,381.25, which represents an increase of thirty per cent. of the appropriation, is requested for all needs.

Code No. 2669—General Plant Materials, $6,750.

The amount allowed in the 1915 Budget for General Plant Materials is $46,791.44. The increased population will make necessary a greater purchase and consumption of General Plant Materials, but a proportionate increase of this appropriation is not requested. It is believed that an additional allowance of $6,750 will take care of the most pressing needs.

Code No. 2670—General Repairs, $7,835.25.

It is very necessary that the docks of the department be put in better shape than they are at present. To undertake these repairs will require an amount of $7,835.25, distributed as follows:

Repairs to dock at Harts Island	$335 25
Repairs to pier at East 26th street	5,250 00
Repairs to coal dock, Workhouse, Blackwells Island	750 00
Repairs to flour dock, Workhouse, Blackwells Island	1,500 00

Code No. 2676—Motor Vehicle Repairs, $225.

It is necessary that repairs to a new auto prison van, to the extent of $288, be paid. These repairs were made necessary by an accident, the liability for which is at present in dispute and our claim for which is in the hands of the Corporation Counsel. It is necessary, however, that the claim be paid by the department pending the final decision as to the liability.

Code No. 2677—Contingencies, $1,125.

The amount of $1,000 is allowed in the 1915 Budget. However, expenses have already been incurred over this amount, and it has already been necessary to effect a transfer of $500 from another appropriation. At present this account is entirely depleted. There should be at least $1,125 provided for contingencies liable to occur before December 31, 1915.

Respectfully, KATHARINE BEMENT DAVIS, Commissioner.

Which was laid over.

No. 1885—(G. O. No. 713).

Report of the Committee on Finance in Favor of Adopting Ordinance for $100,000 Corporate Stock for Improvement of Brooklyn Botanic Garden.

The Committee on Finance, to which was referred on June 22, 1915 (Minutes, page 812), the annexed resolution in favor of an issue of $100,000 Corporate Stock for the improvement of the Brooklyn Botanic Garden, respectfully

REPORTS:

That, having examined the subject, it believes the proposed appropriation to be necessary. A donation of $100,000 has been made by private subscription on condition that the City furnish an equal amount to complete this project. This is an opportunity the City should not lose, and the Committee recommends that the accompanying ordinance be adopted.

AN ORDINANCE providing for an issue of corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), to provide means for the improvement of the Brooklyn Botanic Garden, under the jurisdiction of the Department of Parks, Borough of Brooklyn.

Be it Ordained by the Board of Aldermen of The City of New York, as follows:

Section 1. The Board of Aldermen hereby approves of and concurs in the following resolution, adopted by the Board of Estimate and Apportionment June 18, 1915, and authorizes the Comptroller to issue corporate stock of The City of New York to the amount and for the purposes therein specified:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000) to provide means for the improvement of the Brooklyn Botanic Garden, under the jurisdiction of the Department of Parks, Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, maturing not more than fifteen (15) years after date of issue, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid; provided, however, that no encumbrance or expenditure by contract shall be made against the proceeds of corporate stock herein authorized nor shall bids upon such contracts be advertised for, until after approval by the Board of Estimate and Apportionment of the plans, specifications, estimates of cost, and forms of such contracts which shall be submitted to said Board by the Commissioner of Parks, Borough of Brooklyn, nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such proceeds except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, vouchers, or budget schedule which are to be similarly submitted, unless in the case of departmental employees, such employment is in accordance with schedules approved by said board.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, FRANK J. DOTZLER, JESSE D. MOORE, F. H. WILMOT, C. AUGUSTUS POST, FRANCIS P. KENNEY, Committee on Finance.

Which was laid over.

No. 1850.

Report of the Committee on Finance in Favor of Filing Request for $3,480 Special Revenue Bonds for Department of Water Supply, Gas and Electricity.

The Committee on Finance, to which was referred on June 15, 1915 (Minutes, page 655), a request from the Department of Water Supply, Gas and Electricity for $3,480 Special Revenue Bonds for a card index to note charges for water supplied to unmetered buildings, respectfully

REPORTS:

That, having examined the subject, it believes the proposed allowance is a matter for consideration in making up the Budget for 1916.

It therefore recommends that the said request be placed on file.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, JESSE D. MOORE, F. H. WILMOT, C. AUGUSTUS POST, FRANCIS P. KENNEY, Committee on Finance.

Which report was accepted.

No. 1906—(G. O. No. 714).

Report of the Committee on Finance in Favor of Adopting Resolution to Pay Bill of Malcolm & Hayes for Engrossing.

The Committee on Finance, to which was referred on June 22, 1915 (Minutes, page 907), the annexed resolution in favor of paying bills of Malcolm & Hayes for engrossing, respectfully

REPORTS:

That this work, having been done by direction of the Board, it recommends that the said resolution be adopted.

Resolved, That the Comptroller be and he is hereby authorized and requested to draw a warrant in favor of Malcolm and Hayes for the sum of Seventy-five dollars ($75), said sum to be payment in full for engrossing resolutions, authorized as follows: On the death of the sister of Alderman Francis P. Kenney, adopted January 26, 1915, and approved February 9, 1915; on the death of former Alderman John J. Farrell, adopted February 2, 1915, and received from the Mayor February 16, 1915, and on the death of former Alderman Elias Goodman, adopted February 23, 1915, and approved March 8, 1915; the said sum to be charged to and paid out of the appropriation entitled "Office Supplies, Board of Aldermen, 1915," Code No. 5.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, FRANK J. DOTZLER, JESSE D. MOORE, F. H. WILMOT, C. AUGUSTUS POST, FRANCIS P. KENNEY, Committee on Finance.

Which was laid over.

Reports of Committee on General Welfare—

No. 1501—(G .O. No. 715).

Report of the Committee on General Welfare in Favor of Adopting Amended Ordinance Relating to Wholesale Drug Stores.

The Committee on General Welfare, to which was re-referred on June 22, 1915 (Minutes, page), the annexed ordinance in relation to wholesale drug stores and chemical supply hourses, respectfully

REPORTS:

That, after hearing an explanation of the situation from Aldermen Weil, it believes that the provision in regard to lighting may well be made to conform to that prescribed for retail drug stores. The Assistant Corporation Counsel advises the committee that, in his opinion, this change may be made without lessening the force of the ordinance.

It, therefore, recommends that the accompanying substitute ordinance be adopted.

SECOND SUBSTITUTE.

AN ORDINANCE to amend article 24 of chapter 10 of the Code of Ordinances, Relating to Wholesale Drug Stores and Chemical Supply Houses.

Be it Ordained by the Board of Aldermen of The City of New York, as follows:

Section 1. Section 276 of chapter 10 is hereby amended to read as follows:

Section 276. Quantities of supplies allowed. No permit shall be issued for the storage in a wholesale drug store or drug and chemical supply house of any of the following substances in quantities greater than those set forth in the following schedule:

1. Explosives—	
Amyl nitrate in bottles	25 pounds
Amyl nitrate in pearls	100 gross
Carbon bisulphide	50 pounds
Collodions	100 pounds in all
Gases, liquefied:	
Anhydrous ammonia	2 cylinders
Carbon dioxide	2 cylinders
Nitrous oxide	2 cylinders
Oxygen	2 cylinders
Sulphide dioxide	2 cylinders
Nitroglycerine, 1 per cent. solution in alcohol	20 pounds
Picric acid	25 pounds
Soluble cotton	25 pounds in all
2. Volatile Inflammable Liquids (Insoluble)—	
Benzine, benzole or naphthas of any kind	150 gallons in all
Coal tar	1 barrel
Coal tar oils (heavy)	10 barrels
Crude petroleum	1 barrel
Ethyl chloride and other ethers	200 pounds in all
Ether, nitrous	100 pounds in 5-pound package or less
Ether, sulphuric	500 pounds
Rhigoline	2 dozen 1-pound tins
Varnishes, lacquers, etc	275 gallons in all
Wood creosote	5 barrels
3. Volatile Inflammable Liquids (Soluble)—	
Acetone	1 barrel
Alcohol, denatured	10 barrels
Alcohol, ethyl	10 barrels
Alcohol, methyl	10 barrels
Aldehyde, ethyl	5 gallons
4. Non-volatile inflammable liquids (insoluble).	
Amyl acetate	10 barrels
Amyl alcohol	10 barrels
Aniline oil	5 drums
Cumol	5 barrels
Essential oils	10,000 pounds in all
Kerosene	1 barrel
Nitrobenzole	5 drums
Terebene	100 pounds
Turpentine	10 barrels
Toluol	350 pounds
Xylol	100 pounds
5. Non-volatile inflammable liquids (soluble).	
Glycerine	5,000 pounds
6. Combustible solids.	
Metallic magnesium	100 pounds
Phosphorus	11 pounds
Phosphorus, red	11 pounds
Sulphur	25 barrels in all
7. Gums, resins, pitch, etc.	
Burgundy pitch	5,000 pounds
Camphor	8,000 pounds
Gum thus	5 barrels
Naphthaline	50 barrels in all
Pitch (coal tar pitch)	2 barrels
Resins, balsams and other varnish gums	8,000 pounds in all
Resin	5 barrels
Shellac	2,500 pounds
Stockholm tar	1,000 pounds
Tar refined (wood)	10 barrels
Venice turpentine	2,000 pounds
8. Combustible fibres and powders (vegetable).	
Cotton, absorbent	2,000 pounds
Cotton, batting	10 bales
Excelsior	25 bales
Flax	20 bales
Jute	25 bales
Lampblack	10 barrels
Lycopodium	2,000 pounds
Oakum	2 bales
Pulverized charcoal	10 barrels
Sawdust	15 bags
Straw, packing	10 bales
9. Dangerously corrosive acids.	
Anhydrous acetic	500 pounds
Carbolic	15,000 pounds
Glacial acetic	2,000 pounds
Hydrochloric	15 carboys
Hydrofluoric	500 pounds
Sulphuric	15 carboys
10. Acids.	
Chromic	100 pounds
Iodic	5 pounds
Nitric	3 carboys
Nitric, fuming	25 pounds
Periodic	2 pounds
11. Peroxides.	
Barium	2 casks
Calcium	100 pounds
Hydrogen, U. S. P	5,000 pounds
Other hydrogen peroxides, over 3 per cent., not to exceed 15 per cent.	500 pounds
Potassium	10 pounds
Sodium	25 pounds
12. Chlorates.	
Barium	500 pounds
Other metallic	100 pounds in all
Potassium	1,000 pounds
Sodium	1,000 pounds
13. Perchlorates.	
Potassium	10 pounds
Other metallic perchlorates	10 pounds in all
14. Permanganates.	
Potassium	1,000 pounds
Sodium	100 pounds
Other metallic permanganates	100 pounds in all
15. Nitrates.	
Barium	1,200 pounds
Bismuth subnitrate	2,500 pounds
Cobalt	1,000 pounds
Copper	100 pounds
Iron, ferric	200 pounds
Mercury (mercuric)	100 pounds
Mercury (mercurous)	10 pounds
Potassium	2,000 pounds
Silver	50 pounds
Sodium	1,000 pounds
Strontium	1,200 pounds
Other metallic	500 pounds in all
16. Metallic oxides.	
Lead binoxide	25 pounds
Lead (litharge)	1,200 pounds
Lead (red)	500 pounds
Mercury; yellow precipitate (mercurous)	200 pounds
Mercury; red precipitate (mercuric)	100 pounds
Silver	10 pounds
17. Substances made dangerous by contact with other substances.	
Calcium carbide	60 pounds
Metallic potassium	5 pounds
Metallic sodium	5 pounds
All other metals of the alkalies or alkalone earths	5 pounds in all
Phosphides	10 pounds
Zinc dust	100 pounds

The fire commissioner may [by special supplementary permit] *in his discretion, and when no unusual hazard is presented thereby,* authorize the storage of greater quantities [of substances] than those [named] *set forth* in the foregoing schedule, or the storage of other substances not specified therein.

Section 2. Subdivision 2 of § 277 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows:

2. *Liquids.* The storage of acids or liquid chemicals [so constituted that there is danger of explosion] *which may cause explosions* or combustion by [their] flowing into, upon, or among chemicals or other substances, shall be provided with safety catch basins or [other equivalent] *a similar* device, so that in case of the leakage of [containers of] such acids or liquids the same shall not constitute] *no* danger to life or property *will result.* Carboys containing nitric acid shall be stored only on brick, concrete or asphalt floors, and in a vault or vaults situated below the street level; and it shall be unlawful to permit sawdust, hay, excelsior, or any organic substance, or other acids or chemicals in close proximity to such carboys or stocks of nitric acid. A sufficient quantity of sand or infusorial earth shall be provided for absorbing all waste liquids from floors.

Section 3. Subdivision 1 of § 274 of chapter 10 of the code of ordinances is hereby amended to read as follows:

1. Lighting. Cellars and basements used by wholesale druggist and chemical supply house, for the storage of volatile inflammable liquids shall be provided with a sufficient

number of incandescent electric lights to insure proper illumination throughout. Such lights shall be fitted with keyless sockets and shall be controlled by a switch or switches, located at or near the entrance to such cellar or basement on the grade floor, with a sign at such switch or switches reading "Control of Basement Lights." In addition to the lights herein provided for, there may be installed such individual electric lights as may be required, provided that they shall be controlled by an independent Circuit.

Section 4. This ordinance to take effect immediately,

Note—New matter in *italics;* old matter in brackets [ ] to be omitted.

WM. D. BRUSH, ARNON. L, SQUIERS, LAUREN CARROLL, W. F. QUINN, WM. H. PENDRY, OSCAR IGSTAEDTER, Committee on General Welfare.

Which was laid over.

No. 1866—(G. O. No. 716).

Report of the Committee on General Welfare in Favor of Adopting Ordinance Permitting Discharge of Firearms on the Grounds of the First Aviation Corps, Provisional Federal Volunteers.

The Committee on General Welfare, to which was referred on June 15, 1915 (Minutes, page 699), the annexed ordinance in favor of allowing the discharge of firearms on the grounds of the First Aviation Corps, Provisional Federal Volunteers, in the Borough of The Bronx, respectfully

REPORTS:

That this is one of those pemits which are granted upon application to reputable gun clubs on their own grounds.

The Committee recommends that the said ordinance be adopted.

AN ORDINANCE to amend subdivision 2 of section 2 of chapter 11 of the Code of Ordinances relating to the "discharge of small arms."

Be it Ordained, by the Board of Aldermen of The City of New York, as follows:

Section 1. Subdivision 2 of section 2 of chapter 11 of the Code of Ordinances, relating to the "discharge of small firearms," is hereby amended by adding at the end thereof the following words—*the grounds of the First Aviation Corps, Provisional Federal Volunteers, Eastern Division, known as Falcon Field, located on Castlehill avenue.*

Sec. 2. This ordinance shall take effect immediately.

Note—New matter in *italics.*

WM. D. BRUSH, ARNON. L, SQUIERS, LAUREN CARROLL, W. F. QUINN, WM. H. PENDRY, OSCAR IGSTAEDTER, Committee on General Welfare.

Which was laid over.

No. 1873—(G. O. No. 717).

Report of the Committee on General Welfare in Favor of Adopting Ordinance Amending the Code of Ordinances in Relation to Electrical Control.

The Committee on General Welfare, to which was referred on June 15, 1915 (Minutes, page 742), the annexed ordinance amending the Code of Ordinances relative to electrical control, respectfully

REPORTS:

That after several hearings and conferences this Code amendment has been changed in some minor particulars so that all persons who appeared have joined in approving it.

The accompanying memorandum submitted by Commissioner Williams explains the modifications.

The Committee therefore recommends that the accompanying substitute ordinance be adopted.

AN ORDINANCE to Amend Chapter 9 of the Code of Ordinances by Incorporating Therein Seven New Articles Relating to Electrical Control.

SUBSTITUTE.

Be it Ordained by the Board of Aldermen of The City of New York as follows:

Section 1. The Code of Ordinances of The City of New York is hereby amended by incorporating in chapter 9 thereof, seven articles to be articles 1, 2, 3, 4, 5, 6 and 7, to read as follows:

CHAPTER 9.

ELECTRICAL CONTROL.

Article 1. General provisions.
2. Generators, motors, switchboards.
3. Outside work.
4. Inside work.
5. Fittings, materials and details of construction.
6. Miscellaneous.
7. Violations.

ARTICLE 1.

General Provisions.

Section 1. Definitions.
2. Jurisdiction; powers and duties of the commissioner.
3. Federal buildings.
4. City departments.
5. Public service electric corporations.
6. Installations, alterations or repairs of wiring or appliances.
7. Applications.
8. License board.
9. Fees.
10. Inspection.
11. Certificate of inspection.
12. Supplying current.
13. Discontinuing current.

§ 1. Definitions.

Unless otherwise expressly stated, the following terms whenever used in this chapter shall respectively be deemed to mean and include:

1. *Appliances,* all electrical apparatus or fittings, except fuse renewals, incandescent lamp renewals and portable devices which together with their cables and attachments have been approved for connection to appropriate parts of the permanent electrical equipment.

2. *Approved,* approved in writing by the commissioner of water supply, gas and electricity.

3. *B. & S. gauge,* Brown and Sharpe gauge for wire;

4. *Building,* any edifice, structure or enclosure, whether roofed or unroofed;

5. *Certificate of inspection,* the certificate of the commissioner that the installation, alteration or repair of electric wiring or appliances for light, heat or power in a building has been inspected, and is approved by the department, either temporarily or finally.

6. *Extra-high potential system,* any circuit attached to any machine or combination of machines which developes a difference of potential between any two wires, of over 3,500 volts, shall be considered as a extra-high potential circuit, and as coming under that class, unless an approved transforming device is used, which cuts the difference of potential down to 3,500 volts or less;

7. *High-potential system,* any circuit attached to any machine or combination of machines which develops a difference of potential between any two wires, of over 550 volts and less than 3,500 volts, unless an approved transforming device is used, which cuts the difference of potential down to 550 volts or less; for 550 volt motor equipments a margin of 10 per cent. above the 550 volt limit will be allowed at the generator or transformer without coming under high-potential systems;

8. *License,* the authorization of the commissioner for a person to engage generally in the business of installing, altering or repairing electric wiring or appliances for light, heat or power in buildings;

9. *Low-potential system,* any circuit attached to any transforming device, machine, or combination of machines, which develops a difference of potential between any two wires, of not over 550 volts; the primary circuit not to exceed a potential of 3,500 volts unless the primary wires are installed in accordance with the requirements as given in No. 13, or are underground; for 550 volt motor equipments a margin of 10 per cent. above the 550 volt limit will be allowed at the generator or transformer;

10. *Signalling system,* wiring for telephone, telegraph (except wireless telegraph apparatus) district messenger and call bell circuits, fire and burglar alarms, and all similar systems which are hazardous only because of their liability to become crossed with electric light, heat or power circuits.

11. *Special license, the authorization of the commissioner for a person in the exclusive employ of the owner or manager of a building to install, alter or repair electric wiring or appliances for light, heat or power therein during the term of such special license;*

12. *Special permit,* the authorization of the commissioner for a person to install or repair electric wiring or appliances for light, heat or power upon an individual application.

§ 2. Jurisdiction: powers and duties of the commissioner:

The commissioner of water supply, gas and electricity is empowered to

1. Make rules and regulations respecting the installing, altering or repairing of electric wiring or appliances for light, heat or power in or upon any building;

2. Cause any electric wiring or appliance for light, heat or power in or upon any building to be examined and inspected by an officer or employee of the department designated for that purpose;

3. Order in writing the remedying of any defect or deficiency in the installing, altering or repairing of electric wiring or appliances for light, heat or power, in or upon any building;

4. Cause any order of the commissioner which is not complied with, within the time fixed in such order for compliance therewith, to be enforced and to take proceedings for its enforcement.

§ 3. Federal buildings.

Nothing in this chapter shall be construed to apply to any building, the electrical equipment of which is under the control of the United States Government or of any department or officer thereof.

§ 4. City departments.

The various departments, boards and officers of the city shall be subject to the provisions of this chapter in so far as the same may be applicable, but shall not be required to pay fees; provided, that nothing in this chapter shall be so construed as to affect or in any way modify the provisions of § 7, article 1 of chapter 9 of this code or of chapter 458 of the laws of 1912.

§ 5. Public service electric corporations.

The provisions of this chapter shall not apply

1. To electrical equipment used in connection with railroads.

2. To the following described electrical equipment used in connection with lighting and power companies: (a) generating stations, (b) substations, (c) storage battery stations, (d) storage buildings and yards and (e) service switches and controlling devices and meters and their attached controlling and testing devices; provided, that the electrical equipment hereinabove referred to be owned or leased and operated by, or for the exclusive benefit of, persons or corporations subject to the jurisdiction of either of the public service commissions of the State of New York, or their successors.

§ 6. Installations, alterations or repairs of wiring or appliances.

1. Generally. No person shall install, alter or repair electric wiring or appliances for light, heat or power in any building except a person holding a license, *a special license* or a special permit as defined in § 1 of this chapter, *or a person employed by and working under the general supervision of the holder of a license, a special license or a special permit,* and after application for a certificate of inspection of such installation, alteration or repair. A license *or a special license* shall remain in force for 1 year from the date of issue, and a special permit shall remain in force during the performance of the work which it authorizes, unless modified, suspended or revoked as hereinafter provided; but in no case shall a special permit remain *in* force for more than 1 year.

2. *Modification, suspension or revocation of special permits and licenses.* The commissioner may at any time by an order in writing, for good cause shown, modify, suspend or revoke any special permit issued pursuant to this chapter, and in like manner, but upon recommendation of the license board, he may modify, suspend or revoke any license similarly issued.

§ 7. Applications.

All applications for licenses, special licenses, special permits or certificates of inspection shall be made to the commissioner, in such form and detail as he may from time to time prescribe. A license, special license or special permit shall not be transferable.

§ 8. License board.

1. *Organization.* The commissioner shall appoint a board to determine the fitness of applicants for licenses, which shall consist of:

a. An officer or employee of the department;
b. A master or employing electrician;
c. A journeyman electrician;
d. An underwriters' electrical inspector;
e. An electrician in the employ of a public service corporation of the city;
f. An architect or builder of at least five years practical experience;
g. A real estate owner or broker.

The member of the board who is an officer or employee of the department shall serve as chairman, and all members shall serve without compensation. Four members, including the chairman, who shall be entitled to vote, shall constitute a quorum of the board for the transaction of business; but no recommendation for the issue, modification, suspension or revocation of a license shall be adopted except by the vote of four members of the board.

2. *Jurisdiction.* All applications for licenses or special licenses shall be referred by the commissioner to the board, which shall promptly investigate and report to the commissioner as to the fitness for license of the respective applicants. The board shall meet at least once in every week for the consideration of such applications. The board shall investigate and report to the commissioner respecting any charge that may be made against the holder of a license or a special license.

§ 9. Fees.

There shall be charged and collected by the commissioner a fee of $10 for each license issued under the provisions of this chapter and thereafter an annual fee of $5 for each renewal of such license and a fee of $1 for each special license or special permit so issued.

§ 10. Inspection.

The commissioner or any duly authorized officer or employee of the department of water supply, gas and electricity may enter or go upon, at any reasonable hour, any building in or upon which are wires or other apparatus for electric currents for light, heat or power, to make inspection of such wires or other appliances or for any other purpose in furtherance of the provisions of this chapter.

§ 11. Certificate of inspection.

1. *Issue.* If, after inspection, the electric wiring or appliances for light, heat or power in a building shall be found by the commissioner to have been installed, altered or repaired in conformity with the requirements of this chapter, he shall issue a temporary or final certificate of inspection therefor.

2. *Modification, suspension or revocation.* The commissioner may at any time by an order in writing, for good cause shown, modify, suspend or revoke any certificate of inspection issued pursuant to this chapter, but no such order shall be effective unless same shall state specifically the reason therefor, nor until a copy of such order has been served upon the owner, lessee or occupant of the premises affected thereby; or, if the owner, lessee or occupant cannot be ascertained or located by the exercise of reasonable diligence, a copy of such notice shall have been conspicuously posted upon the premises.

§ 12. Supplying current.

No person shall supply electric current for light, heat or power to any wiring or appliances in any building until a certificate of inspection, temporary or final, authorizing the use of said wiring or appliances shall have been issued by the commissioner.

§ 13. Discontinuing current.

If, in the judgment of the commissioner, after due inspection, the electric wiring or appliances in any building, shall be unsafe or dangerous to persons or property, the commissioner shall have power to cause such wires or appliances to be disconnected from the supplying wires or apparatus and to seal the wiring and appliances so disconnected. Thereafter no person shall cause or permit electric current to be supplied to wiring or appliances so sealed until the same shall have been made safe and the commissioner shall have issued a certificate to that effect; provided, however, that no wiring or appliances shall be disconnected pursuant to this section until a notice in writing, stating specifically the reason why such wiring or appliances must be disconnected, shall have been served upon the owner, lessee or occupant of the premises affected thereby, or conspicuously posted in or upon said premises, and a duplicate thereof shall have been delivered to the person supplying the current to such wiring or appliances.

ARTICLE 2.

Generators, motors, switchboards.

Section 201. Generators.
202. Conductors from generators to switchboards, rheostats or other instruments and thence to outside lines.
203. Switchboards.
204. Resistance devices.
205. Lightning arresters.
206. Care and attendance.
207. Testing of insulation resistance.
208. Motors.
209. Railway power plants.
210. Storage or primary batteries.
211. Transformers.

§ 201. Generators.

a. Generators must be located in a dry place.

b. Generators must never be placed in a room where any hazardous process is carried on, nor in places where they would be exposed to inflammable gases or flyings of combustible materials.

c. Generators must, when operating at a potential in excess of 550 volts, have their base frames permanently and effectively grounded.

Generators must, when operating at a potential of 550 volts or less, be thoroughly insulated from the ground wherever feasible. Wooden base frames used for this purpose, and wooden floors which are depended upon for insulation where, for any reason, it is necessary to omit the base frames, must be kept filled to prevent absorption of moisture, and must be kept clean and dry.

Where frame insulation is impracticable, special permission for its omission may be given in writing, in which case the frame must be permanently and effectively grounded.

d. Constant potential generators, except alternating current machines and their exciters, must be protected from excessive current by safety fuses or equivalent devices of approved design.

For two-wire D. C. generators, single-pole protection will be considered as satisfying the above rule, provided the safety device is so located and connected that the means for opening same is actuated by the entire generator current, and the action thereof will completely open the generator circuit.

For two-wire D. C. generators used in conjunction with balance sets to obtain a neutral for three-wire systems, a protective device must be installed, which in case of the excessive unbalancing of voltages will operate to disconnect the three-wire system.

If a generator, not electrically driven, in a two-wire system has one terminal grounded, the safety device above mentioned must be placed in the grounded lead.

For three-wire direct-current generators compound or shunt wound, a safety device must be placed in each armature lead, and so connected as to receive the entire current from the armature. Fuses will not be acceptable. The safety device must consist of either: (1) A double pole, double coil, overload circuit breaker, or (2) a four-pole circuit breaker connected in the main and equalizer leads, and tripped by means of two overload devices, one in each armature lead.

The safety devices above required must be so interlocked that no pole can be opened without simultaneously disconnecting both side of the armature from the system.

e. Generators must each be provided with a name-plate, giving the maker's name, the capacity in volts and amperes, and the normal speed in revolutions per minute.

f. Terminal blocks when used on generators must be made of approved non-combustible, non-absorptive, insulating material, such as slate, marble or porcelain.

g. The use of soft rubber bushings to protect the lead wires coming through the frames of generators is permitted, except when installed where oils, grease, oily vapors or other substances known to have rapid deleterious effect on rubber are present in such quantities and in such proximity to motor or dynamo as may cause such bushing to be liable to rapid destruction. In such cases hard wood, properly filled, or preferably porcelain or micanite bushings must be used.

§ 202. Conductors from generators to switchboards, rheostats or other instruments, and thence to outside lines.

a. Conductors must be in plain sight or readily accessible. Wires from generator to switchboard may, however, be placed in a run-way in the brick or cement pier on which the generator stands. When protection against moisture is necessary, lead-covered cable or iron conduit must be used.

b. Conductors must have an approved insulating covering as called for by rules in article 4 of this chapter for similar work, except that in central stations, on exposed circuits, the wire which is used must have a heavy-braided, non-combustible outer covering. Conductors used as bus bars may be made of bare metal. Wires with inflammable outer braiding, when brought close together, as in the rear of switchboards, must, when required, be each surrounded with a tight, non-combustible outer cover. Flame proofing must be stripped back on all cables a sufficient amount to give the necessary insulation distances for the voltage of the circuit on which the cable is used.

c. Conductors must, where not in a conduit, be kept so rigidly in place that they cannot come in contact.

d. Conductors must in all other respects be installed with the same precautions as required by rules in article 4 for wires carrying a current of the same volume and potential.

e. In wiring switchboards, the ground detector, voltmeter, pilot lights and potential transformers must be connected to a circuit of not less than No. 14 B. & S. gage wire that is protected by an approved fuse, this circuit not to carry over 660 watts.

For the protection of instruments and pilot lights on switchboards, approved N. E. Code Standard Enclosed Fuses are preferred, but approved enclosed fuses of other designs of not over two (2) amperes capacity, may be used.

§ 203. Switchboards.

a. Switchboards must be so placed as to reduce to a minimum the danger of communicating fire to adjacent combustible material.

Switchboards must not be built up to the ceiling, a space of three feet being left, if possible, between the ceiling and the board. The space back of the board must be kept clear of rubbish and not used for storage purposes.

b. Switchboards must be made of non-combustible material.

c. Switchboards must be accessible from all sides when the connectons are on the back, but may be placed against a brick or stone wall when the wiring is entirely on the face.

If the wiring is on the back, there must be a clear space of at least eighteen inches between the wall and the apparatus on the board, and even if the wiring is entirely on the face, it is much better to have the board set out from the wall.

d. Switchboards must be kept free from moisture.

e. Wires with inflammable outer braiding, when brought close together, as in the rear of switchboards, must, when required, be each surrounded with a tight, non-combustible outer cover.

Flame proofing must be stripped back on all cables a sufficient amount to give the necessary insulation distances for the voltage of the circuit on which the cable is used.

§ 204. Resistance devices.

a. Resistance devices must be placed on a switchboard, or at a distance of at least one foot from combustible material, or separated therefrom by a slab or panel of non-combustible, non-absorptive insulating material such as slate, soapstone or marble, somewhat larger than the rheostat, which must be secured in position independently of the rheostat supports. Bolts for supporting the rheostat shall be countersunk, at least 1-8 inch, below the surface at the back of the slab and the bolt heads shall be covered with insulating material. For proper mechanical strength, slab should be of a thickness consistent with the size and weight of the rheostat, and in no case to be less than ½ inch.

If resistance devices are installed in rooms where dust or combustible flyings are liable to accumulate on them, they must be equipped with dust-proof face-plates.

b. Where protective resistances are necessary in connection with automatic rheostats, incandescent lamps may be used, provided that they do not carry or control the main current nor constitute the regulating resistance of the device.

When so used, lamps must be mounted in porcelain receptacles upon non-combustible supports, and must be so arranged that they cannot have impressed upon them a voltage greater than that for which they are rated. They must in all cases be provided with a name-plate, which shall be permanently attached beside the porcelain receptacle or receptacles and stamped with the candlepower and voltage of the lamp or lamps to be used in each receptable.

Under special authorization in writing, given in advance, incandescent lamps may be used for the purpose of resistances in series with other devices when mounted in porcelain receptacles upon non-combustible supports and so arranged that they cannot have impressed upon them a voltage greater than that for which they are rated.

c. Wherever insulated wire is used for connection between resistance elements and the contact device of a rheostat, the insulation must be non-combustible or slow burning. For large field rheostats and similar resistances, where the contact devices are not mounted upon them, the connecting wires having slow burning insulation may be so arranged in groups that the maximum difference of potential between any two wires in a group shall not exceed 75 volts. Each group of wires must either be mounted on non-combustible, non-absorptive insulators giving at least ½ inch separation from surface wired over, or, especially where it is necessary to protect same from mechanical injury, each group of wires may be encased in approved flexible tubing and placed in approved conduit, the flexible tubing to extend at least 1 inch beyond the ends of the conduit.

§ 205. Lightning arresters.

a. Lighting arresters must be attached to each wire of every overhead circuit connected with the station.

b. Lighting arresters must be located in readily accessible places away from combustible materials, and as near as practicable to the point where the wires enter the building.

In all cases, kinks, coils and sharp bends in the wires between the arresters and the outdoor lines must be avoided as far as possible.

c. Lightning arresters must be connected with a thoroughly good and permanent ground connection by metallic strips or wires having a conductivity not less than that of a No. 6 B. & S. gage copper wire, which must be run as nearly in a straight line as possible from the arresters to the ground connection.

Ground wires for lightning arresters must not be attached to gas pipes within the buildings nor be run inside of iron pipes.

d. All choke coils or other attachments, inherent to the lightning protection equipment, shall have an insulation from the ground or other conductors equal at least to the insulation demanded at other points of the circuit in the station.

§ 206. Care and attendance.

a. A competent man must be kept on duty where generators are operating.

b. Oily waste must be kept in approved waste cans and removed daily.

§ 207. Testing of insulation resistance.

a. All circuits except such as are permanently grounded in accordance with § 215 of this chapter must be provided with reliable ground detectors. Detectors which indicate continuously and give an instant and permanent indication of a ground are preferable. Ground wires from detectors must not be attached to gas pipes within the building.

b. Where continuously indicating detectors are not feasible, the circuits should be tested at least once per day, and preferably oftener.

§ 208. Motors.

a. Motors must, when operating at a potential in excess of 550 volts, have no exposed live metal parts, and have their base frames permanently and effectively grounded.

Motors operating at a potential of 550 volts or less must be thoroughly insulated from the ground wherever feasible. Wooden base frames used for this purpose, and wooden floors, which are depended upon for insulation where, for any reason, it is necessary to omit the base frames, must be kept filled to prevent absorption of moisture, and must be kept clean and dry. Where frame insulation is impracticable, special permission, in writing, may be given for its omission, in which case the frame must be permanently and effectively grounded.

b. Motors operating at a potential of 550 volts or less must be wired with the same precautions as required by rules in article 4 of this chapter, for wires carrying a current of the same volume.

Motors operating at a potential between 550 and 3,500 volts must be wired with approved multiple conductor, metal sheathed cable in approved unlined metal conduit firmly secured in place. The metal sheath must be permanently and effectively grounded, and the construction and installation of the conduit must conform to rules for interior conduits (see § 428 of this chapter), except that at outlets approved outlet bushings shall be used.

The motor leads or branch circuits must be designed to carry a current at least 25 per cent. greater than that for which the motor is rated. Where the wires under this rule would be overfused in order to provide for the starting current, as in the case of many of the alternating current motors, the wires must be of such size as to be properly protected by these larger fuses.

The current used in determining the size of varying speed alternating current motor leads or branch circuits must be the percentage of the 30-minute current rating of the motor as given for the several classifications of service in the following table:

Classification of Services.	Percentage of current rating of motor.
Operating valves, raising or lowering rolls, tool heads, etc.	200
Hoists, rolls, ore and coal-handling machines	180
Freight elevators, shop cranes	160
Passenger elevators	140
Rolling tables, pumps	120

The insulation of the several conductors for high-potential motors, where leaving the metal sheath at outlets, must be thoroughly protected from moisture and mechanical injury. This may be accomplished by means of a pot head or some equivalent method. The conduit must be substantially bonded to the metal casings of all fittings and apparatus connected to the inside high-tension circuit.

Where outside wires directly enter the motor room, special permission, in writing, must be obtained to install the wires for high-potential motors according to the general rules for high-potential systems.

e. Each motor and resistance box must be protected by a cut-out and controlled by a switch (see § 419a of this chapter), said switch plainly indicating whether "on" or "off" (except as provided for electric cranes, see § 443c). Small motors may be grouped under the protection of a single set of fuses, provided the rated capacity of the fuses does not exceed 6 amperes. With motors of ¼ horse power or less, on circuits where the voltage does not exceed 300, single pole switches may be used as allowed in § 424c of this chapter. The switch and rheostat must be located within sight of the motor, except in cases where special permission in writing is given to locate them elsewhere.

Where the circuit-breaking device on the motor-starting rheostat disconnects all wires of the circuit, the switch called for in this section may be omitted.

Overload-release devices on motor-starting rheostats will not be considered to take the place of the cut-out required by this section.

An automatic circuit-breaker disconnecting all wires of the circuit may serve as both switch and cut-out.

Where rubber-covered wire is used for the leads or branches of A. C. motors of the types requiring large starting currents, the wire may be protected in accordance with table B of § 418 of this chapter, except when circuit-breakers are installed which are equipped with time-element devices.

d. Rheostats must be so installed as to comply with all the requirements of § 204 of this chapter. Auto starters must comply with requirements of § 204c of this chapter.

Auto starters, unless equipped with tight casings enclosing all current-carrying parts, in all wet, dusty or linty places, must be enclosed in dust-tight, fireproof cabinets. Where there is any liability of short circuits across their exposed live parts due to accidental contacts, a railing must be erected around them.

e. Motors must not be run in series-multiple or multiple-series, except on constant-potential systems, and then only by special permission.

f. Motors must be covered with a waterproof cover when not in use, and, if deemed necessary, must be enclosed in an approved case.

Such enclosures must be readily accessible, dust-proof and sufficiently ventilated to prevent an excessive rise of temperature. Where practicable the sides should be made largely of glass, so that the motor may be always plainly visible.

The use of enclosed type motors is recommended in dusty places, being preferable to wooden boxing.

Where deemed necessary, motors permanently located on wooden floors must be provided with suitable drip pans.

g. Motors must, when combined with ceiling fans, be hung from insulated hooks, or else there must be an insulator interposed between the motor and its support.

h. Motors must each be provided with a name-plate, giving the maker's name, the capacity in volts and amperes, and the normal speed in revolutions per minute.

All varying (or variable) speed alternating current motors except those used for railway service must be marked with the maximum current which they can safely carry for 30 minutes, starting cold.

i. Terminal blocks, when used on motors, must be made of approved non-combustible, non-absorptive insulating material, such as slate, marble or porcelain.

j. Adjustable-speed motors, unless of special and appropriate design, if controlled by means of field regulation, must be so arranged and connected that they cannot be started under weakened field.

k. The use of soft rubber bushings to protect the lead wires coming through the frame of motors is permitted, except when installed where oils, grease, oily vapors or other substances known to have rapid deleterious effect on rubber are present in such quantities and in such proximity to motors as may cause such bushings to be liable to rapid destruction. In such cases hardwood properly filled, or preferably porcelain or micanite bushings must be used.

§ 209. Railway power plants.

a. Each feed wire before it leaves the power plant must be protected by an approved automatic circuit-breaker or other device, which will immediately cut off the current in case of an accidental ground. This device must be mounted on a fireproof base, and in full view and reach of the attendant.

§ 210. Storage or primary batteries.

a. When current for light and power is taken from primary or secondary batteries, the same general regulations must be observed as apply to similar apparatus fed from generators developing the same difference of potential.

b. Storage battery rooms must be thoroughly ventilated.

c. Special attention is directed to the rules for wiring in rooms where acid fumes exist (see § 426 i, j, of this chapter).

d. All secondary batteries must be mounted on non-absorptive, non-combustible insulators, such as glass or thoroughly vitrified and glazed porcelain.

e. The use of any metal liable to corrosion must be avoided in eell connections of secondary batteries.

§ 211. Transformers.

a. In central or sub-stations the transformers must be so placed that smoke from the burning out of the coils or the boiling over of the oil (where oil-filled cases are used) can do no harm.

b. In central or substations casings of all transformers must be permanently and effectively grounded.

Transformers used exclusively to supply current to switchboard instruments need not be grounded, provided they are thoroughly insulated.

ARTICLE 3.

Outside Work.

Section 312. Wires on outside of buildings.
313. Services.
314. Transformers.
315. Grounding low-potential circuits.

§ 312. Wires on outside of buildings.

a. This article shall not apply to conductors on highways.

b. Wires must, for services of No. 6 B & S. gauge or smaller, consist of approved rubber covered multiple conductor cable and must enter the building in the manner prescribed by the second paragraph of § 312 f of this chapter. If necessary to carry the service cable across the face of the building before entering, it may be extended in flexible metal conduit, or a waterproof conduit system must be employed.

c. Wires must be at least 7 feet above the highest point of flat roofs, and at least 1 foot above the ridge of pitched roofs over which they pass or to which they are attached and roof structures must be substantially constructed. Roof lines will be permitted only under special authorization in writing.

d. Wires extended on the exterior walls of buildings must have a rubber insulating covering, and, if not protected by fuses, must be kept at least 1 foot apart and supported on petticoat insulators of glass or porcelain placed not more than 15 feet apart, the distance between supports to be shortened if wires are liable to be disturbed.

e. Wires must be so spliced or joined as to be both mechanically and electrically secure without solder. The joints must then be soldered, to insure preservation, and covered with an insulation equal to that on the conductors.

All joints must be soldered unless made with some form of approved splicing device.

f. Wires must where they enter buildings, have drip loops outside, and the holes through which the conductors pass must be bushed with non-combustible, non-absorptive insulating tubes, slanting upward toward the inside; or the service wires may be brought into buildings through a single iron conduit, in which case the conduit shall be equipped with an approved service-head. The inner end must extend to the service cut-out, and if a cabinet is required by this article must properly enter the cabinet.

§ 313. Services.

a. Each building shall be supplied by a separate service.

b. Where a row of separate buildings is to receive its supply from an overhead main one service cable shall be run from the pole to the row, and from the first attachment to the building sub-services or a service main shall extend in conduit along the face of the row. One service cable shall supply not more than five buildings, except under special permission in writing, given in advance.

The same plan of sub-services may be employed in connection with underground services, under the same restrictions.

§ 314. Transformers.

a. Transformers must not be attached to any building when the potential exceeds 550 volts, except by special permission, and when attached to buildings must be separated therefrom by substantial supports.

§ 315. Grounding low-potential circuits.

a. *Direct-current three-wire systems.* Neutral wire must (except where supplied from private industrial power or lighting plants where the primary voltage does not exceed 550 volts) be grounded and the following rules must be complied with:

1. The neutral wire must be permanently and effectively grounded at the central station. The ground connection must include all available underground complete metallic piping systems.

2. In underground systems the neutral wire must also be grounded at each distributing box through the box.

3. In overhead systems the neutral wire must be grounded every 500 feet, as provided in paragraphs c to g of this section.

b. *Alternating-current secondary systems.* Transformer secondaries of distributing systems must be grounded, provided the maximum difference of potential between the grounded point and any other point in the circuit does not exceed 320 volts. The following rules must be complied with:

1. The grounding must be made at the neutral point or wire, whenever a neutral point or wire is accessible.

2. When no neutral point or wire is accessible one side of the secondary circuit must be grounded.

3. The ground connection must be at the transformers or on the individual service as provided in paragraphs c to g of this section, and when transformers feed systems with a neutral wire, the neutral wire must also be grounded at least every 500 feet.

c. *Ground wire, in buildings.* When the ground connection is inside of any building, or the ground wire is inside of, or attached to any building (except central or sub-stations) the ground wire must be of copper and have an approved rubber insulating covering, National Electrical Code Standard, for from 0 to 600 volts.

d. *Ground wire, sizes.* The ground wire in direct-current three-wire systems must not at central stations be smaller than the neutral wire and not smaller than No. 6 B. & S. gage elsewhere. The ground wire in alternating current systems must never be less than No. 6 B. & S. gage.

On three-phase systems the ground wire must have a carrying capacity equal to that of any one of the three mains.

e. *Ground wire, installation.* The ground wire must, except for central stations and transformer sub-stations, be kept outside of buildings as far as practicable, but may be directly attached to the building or pole by cleats or straps or on porcelain knobs. Staples must never be used. The wire must be carried in as nearly a straight line as practicable, avoiding kinks, coils and sharp bends, and must be protected when exposed to mechanical injury.

f. *Ground connections, central stations.* The ground connection for central stations, transformer sub-stations, and banks of transformers must be permanent and effective and must include all available underground piping systems, including the lead sheath of underground cables.

g. *Ground connections, generally.* For individual transformers and building services the ground connection may be made as in paragraph f of this section, or may be made to water piping systems running into buildings.

With overhead service, this connection may be made by carrying the ground wire into the cellar and connecting on the street side of meters, main cocks, etc.

Where the service enters the cellar or basement, this connection may be made by carrying the ground wire through the cellar or basement and connecting as above.

Where the ground wire is run through any part of a building, unless run in approved conduit, it shall be protected by porcelain bushings through walls or partitions and shall be run in approved moulding, except that in basements it may be supported on porcelain.

Connections should not be made to piping systems which have cement joints, but should only be made to complete metallic pipe systems.

ARTICLE 4.

Inside Work.

Section 416. Wires, general.
417. Underground conductors.
418. Table of allowable carrying capacities of wires.
419. Switches, cutouts, circuit-breakers.
420. Limitation of potential.
421. Arc lamps.
423. Automatic cutouts (fuses and circuit-breakers).
424. Switches.
425. Electric heaters.
426. Wires, low potential systems.
427. Armored cables.
428. Interior conduits.
429. Metal mouldings.
430. Fixtures.
431. Sockets.
432. Flexible cord.
433. Arc lamps on constant-potential circuits.
434. Vapor lamps.
435. Economy coils.
436. Transformers, low potential.
437. Decorative lighting systems.
438. Theatre and moving picture establishment wiring.
439. Outline lighting.
439a. Garages.
442. Lighting and power from railway wires.
443. Electric cranes.
444. Wires, high potential systems.
445. Transformers, high potential.
447. Primary wires.
448. Secondary wires.

§ 416. Wires, general.

a. Wires must not be of smaller size than No. 14 B. & S. gage, except as allowed for fixture work and pendant cord.

b. Conductors of size No. 8 B. & S. gage or over used in connection with solid knobs must be securely tied thereto. If wires are used for tying they must have an insulation of the same type as the conductors they confine. Solid knobs or strain insulators must be used for all wires at the end of runs where conductors are terminated. Split knobs or cleats must be used for the support of conductors smaller than No. 8 B. & S. gage, except at the end of runs.

Knobs or cleats which are arranged to grip the wire must be fastened by either screws or nails. If nails are used, they must be long enough to penetrate the woodwork not less than ½ the length of the knob and fully the thickness of the cleat, and must be provided with washers which will prevent, under reasonable usage, injury to the knobs or cleats.

c. Wires must be so spliced or joined as to be both mechanically and electrically secure without solder. The joints must then be soldered unless made with some form of approved splicing device, and covered with an insulation equal to that on the conductors.

Stranded wires (except in flexible cords) must be soldered before being fastened under clamps or binding screws, and whether stranded or solid, when they have a conductivity greater than that of No. 8 B. & S. gage they must be soldered into lugs for all terminal connections, except where an approved solderless terminal connector is used.

d. Wires must be separated from contact with walls, floors, timbers or partitions through which they may pass by non-combustible, non-absorptive insulating tubes, such as glass or porcelain, except at outlets where approved flexible tubing is required.

Bushings must be long enough to bush the entire length of the hole in one continuous piece, or else the hole must first be bushed by a continuous waterproof tube. This tube may be a conductor, such as iron pipe, but in that case an insulating bushing must be pushed into each end of it, extending far enough to keep the wire absolutely out of contact with the pipe.

e. Where not enclosed in approved conduit, moulding or armored cable, and where liable to come in contact with gas, water or other metallic piping or other conducting material, wires must be separated therefrom by some continuous and firmly fixed non-conductor creating a permanent separation. Must not come nearer than 2 inches to any other electric lighting, power or signaling wire, not enclosed as above, without being permanently separated therefrom by some continuous and firmly fixed non-conductor. The non-conductor used as a separator must be in addition to the regular insulation on the wires. Where tubes are used they must be securely fastened at the ends to prevent them from moving along the wire.

Deviations from this rule may, when necessary, be allowed by special permission.

f. Wires must be so placed in wet places that an air space will be left between conductors and pipes in crossing, and the former must be run in such a way that they cannot come in contact with the pipe accidentally. Wires should be run over, rather than under, pipes upon which moisture is likely to gather or which, by leaking, might cause trouble on a circuit.

g. The installation of electrical conductors in wooden moulding, or on insulators, in elevator shafts will not be approved, but conductors may be installed in such shafts if encased in approved metal conduits or armored cables.

§ 417. Underground conductors.

a. Underground conductors must be protected against moisture and mechanical injury where brought into a building, and all combustible material must be kept from the immediate vicinity.

b. Underground conductors must not be so arranged as to shunt the current through a building around any catch-box.

c. Where underground service enters building through tubes, the tubes shall be tightly closed at outlets with asphaltum or other non-conductor, to prevent gases from entering the building through such channels.

d. No underground service from a subway to a building and no service from a private generating plant shall supply more than one building, except by special permission. Where one or more buildings are supplied from another, the conductors are to be carried outside the buildings. Conductors carried under 2 inches of concrete under a building or buried back of 2 inches of concrete or brick within a wall are considered as lying outside the building.

§ 218. Table of allowable carrying capacities of wires.

a. The following table, showing the allowable carrying capacities of copper wires and cables of 98 per cent. conductivity, according to the standard adopted by the American Institute of Electrical Engineers, must be followed in placing interior conductors.

For insulated aluminum wire the safe carrying capacity is 84 per cent. of that given in the following table for copper wire with the same kind of insulation.

B. & S. G.	Table A. Rubber Insulation. Amperes.	Table B. Other Insulations. Amperes.	Circular Mils.
18	3	5	1,624
16	6	10	2,583
14	15	20	4,107
12	20	25	6,530
10	25	30	10,380
8	35	50	16,510
6	50	70	26,250
5	55	80	33,100
4	70	90	41,740
3	80	100	52,630
2	90	125	66,370
1	100	150	83,690
0	125	200	105,500
00	150	225	133,100
000	175	275	167,800
0000	225	325	211,600
Circular Mils.			
200,000	200	300	
300,000	275	400	
400,000	325	500	
500,000	400	600	
600,000	450	680	
700,000	500	760	
800,000	550	840	
900,000	600	920	
1,000,000	650	1,000	
1,100,000	690	1,080	
1,200,000	730	1,150	
1,300,000	770	1,220	
1,400,000	810	1,290	
1,500,000	850	1,360	
1,600,000	890	1,430	
1,700,000	930	1,490	
1,800,000	970	1,550	
1,900,000	1,010	1,610	
2,000,000	1,050	1,670	

§ 419. Switches, cut-outs, circuit breakers, etc.

a. On constant-potential circuits, all service switches and all switches controlling circuits supplying current to motors or heating devices, and all fuses, unless otherwise provided (for exceptions as to switches see §§ 208c, 425a and 443c of this chapter; for exceptions as to cut-outs see § 423, a b of this chapter) must be so arranged that the fuses will protect and the opening of the switch will disconnect all of the wires; that is, in the two-wire system the two wires, and the three-wire system the three wires, must be protected by the fuses and disconnected by the operation of the switch.

When installed without other automatic overload protective devices automatic overload circuit breakers must have the poles and trip coils so arranged as to afford complete protection against overloads and short circuits, and if also used in place of the switch must be so arranged that no pole can be opened manually without disconnecting all the wires.

This, of course, does not apply to the grounded circuit of street railway systems.

b. Switches, cut-outs, circuit-breakers, etc., must not be placed where exposed to mechanical injury nor in the immediate vicinity of easily ignitable stuff or where exposed to inflammable gases or dust or to flyings of combustible material.

Where the occupancy of a building is such that switches, cut-outs, etc., cannot be located so as not to be exposed as above they must be enclosed in approved dust-proof cabinets with self-closing doors, except oil switches and circuit breakers which have dust-tight casings.

c. Switches, cut-outs, circuit-breakers, etc., must, when exposed to dampness, either be enclosed in a moisture-proof box or mounted on porcelain knobs. The cover of the box must be so made that no moisture which may collect on the top or sides of the box can enter it.

d. Time switches, sign flashers and similar appliances must be of approved design and enclosed in approved cabinets.

§ 420. Limitation of potential.

The installation in any building, except a central station, or a sub-station, or a transformer vault, of electric light or power wiring or appliances operating at a potential in excess of 750 volts is prohibited.

§ 421. Arc lamps.

Arc lamps must be provided at all times with glass globes surrounding the arc and securely fastened in place. Broken or cracked globes must not be used. Globes must be provided with wire netting having a mesh not exceeding 1¼ inches. The netting may be omitted where tight inner globes are employed.

§ 423. Automatic cut-outs (fuses and circuit-breakers).

a. Automatic cut-outs must be placed on all service wires, either overhead or underground, in the nearest accessible place to the point where they enter the building and inside the walls, and arranged to cut off the entire current from the building. Departure from this rule may be authorized only under special permission in writing.

Where the switch required by § 424a of this chapter is inside the building, the cut-out required by this section must be placed so as to protect it.

For three-wire (not three-phase) systems the fuse in the neutral wire may be omitted, provided the neutral wire is of equal carrying capacity to the larger of the outside wires, and is grounded as provided for in § 315 of this chapter.

In risks having private plants, the yard wires running from building to building are not considered as service wires, so that cut-outs would not be required where the wires enter buildings, provided that the next fuse back is small enough to properly protect the wires inside the building in question.

b. Automatic cut-outs must be placed at every point where a change is made in the size of wire, unless the cut-out in the larger wire will protect the smaller (see § 418 of this chapter).

For three-wire direct current or single phase systems the fuse in the neutral wire, except that called for under paragraph d of this section, may be omitted, provided the neutral wire is grounded as provided for in § 315 of this chapter.

c. Automatic cut-outs must be in plain sight or enclosed in an approved cabinet, and readily accessible. They must not be placed in the canopies or shells of fixtures.

Link fuses may be used only when mounted on approved slate or marble bases and must be enclosed in dust-tight, fire-proofed cabinets, except on switchboards.

d. Automatic cut-outs must be so placed that no set of small motors, small heating devices or incandescent lamps, whether grouped on one fixture or on several fixtures or pendants (nor more than 16 sockets or receptacles) requiring more than 660 watts will be dependent upon one cut-out.

By special permission, in cases where wiring equal in size and insulation to No. 14 B. & S. gage approved rubber-coated wire is carried direct into keyless sockets or receptacles, and where the location of sockets and receptacles is such as to render unlikely the attachment of flexible cords thereto, the circuits may be so arranged that not more than 1,320 watts (or 32 sockets or receptacles) will be dependent upon the final cut-out.

Except for signs and outline lighting, sockets and receptacles will be considered as requiring not less than 40 watts each.

All branches of taps from any three-wire system which are directly connected to lamp sockets or other translating devices, must be run as two-wire circuits if the fuses are omitted in the neutral, or if the difference of potential between the two outside wires is over 250 volts, and both wires of such branch or tap circuits must be protected by proper fuses.

The above shall also apply to motors, except that small motors may be grouped under the protection of a single set of fuses, provided the rated capacity of the fuses does not exceed 10 amperes.

When 1,320 watts are dependent upon one fusible cut-out, as is allowed in theatre wiring, outline lighting and large chandeliers, the fuses may be in accordance with the following tables—

125 volts or less	20 amperes
125 to 250 volts	10 amperes

e. The rated capacity of fuses must not exceed the allowable carrying capacity of the wires as given in § 418 of this chapter. Circuit-breakers must not be set more than 30 per cent. above allowable carrying capacity of the wire, unless a fusible cut-out is also installed on the circuit. Where rubber covered wire is used for the leads or branches of A. C. motors of the types requiring large starting currents, the wire may be protected in accordance with Table B of § 418 of this chapter, except when circuit breakers are installed which are equipped with time element devices.

Fixture wires or flexible cord of No. 18 B & S. gage will be considered as properly protected by 10 ampere fuses.

f. Each wire of motor circuits except on main switchboard or when otherwise subject to competent supervision, must be protected by an approved fuse whether automatic overload circuit breakers are installed or not. Single-phase motors may have one side protected by an approved automatic overload circuit-breaker only, if the other side is protected by an approved fuse.

For circuits having a maximum capacity greater than that for which enclosed fuses are approved circuit-breakers if used without fuses will be approved.

§ 424. Switches.

a. Switches must be placed on all service wires, either overhead or underground, in the nearest readily accessible place to the point where the wires enter the building, and arranged to cut off the entire current. Departure from this rule may be authorized only under special permission in writing.

Service cut-out and switch must be arranged to cut off current from all devices including meters.

In risks having private plans the yard wires running from building to building are not considered as service wires, so that switches would not be required in each building if there are other switches conveniently located on the mains or if the generators are near at hand.

b. Must always be placed in dry, accessible places, and be grouped as far as possible (see § 419c of this chapter). Single-throw knife switches must be so placed that gravity will not tend to close them. Double-throw knife switches may be mounted so that the throw will be either vertical or horizontal as preferred, but if the throw be vertical a locking device must be provided, so constructed as to insure the blades remaining in the open position when so set.

When practicable switches must be so wired that blades will be "dead" when switch is open.

When switches are used in rooms where combustible flyings would be likely to accumulate around them, they must be enclosed in dust-tight cabinets.

c. Single-pole switches must never be used as service switches, nor for the control of outdoor signs or circuits located in damp places, nor placed in the neutral wire of a three-wire system, except in the two-wire branch or tap circuit supplying not more than 660 watts.

This, of course, does not apply to the grounded circuits of street railway systems.

Three-way switches are considered as single pole switches.

d. Where flush switches or receptacles are used, whether with conduit systems or not, they must be enclosed in an approved box constructed of iron or steel, in addition to the porcelain enclosure of the switch or receptacle. Where in floor outlets attachment plugs are liable to mechanical injury, or the presence of moisture is probable, floor outlet boxes especially designed for this purpose must be used.

e. Where possible, at all switch or fixture outlets, unless outlet boxes which will give proper support for fixtures are used, a ⅞ inch block must be fastened between studs or floor timbers flush with the back of lathing to hold tubing, and to support switches or fixtures. When this cannot be done, wooden base blocks, not less than ¾ inch in thickness, securely screwed to lathing, must be provided for switches, and also for fixtures which are not attached to gas pipes or conduit.

f. Sub-bases of non-combustible, non-absorptive, insulating material, which will separate the wires at least ½ inch from the surface wired over, must be installed under all snap switches used in exposed knob and cleat work. Sub-bases must also be used in moulding work unless the switch is approved for mounting directly on the moulding.

§ 425. Electric heaters.

a. Each heater of more than 6 amperes or 660 watts capacity must be protected by a cut-out, and controlled by a switch or plug connector plainly indicating whether "on" or "off" and located within sight of the heater. Heaters of 6 amperes or 660 watts capacity, or less, may be grouped under the protection of a single set of fuses, provided the rated capacity of the fuses does not exceed 10 amperes, or may be connected individually to lighting circuits.

b. Flexible conductors for smoothing irons and sad irons, and for all devices requiring over 250 watts, must have an approved insulation and covering complying with the requirements of § 554d of this chapter.

c. With portable heating devices, approved plug connectors must be used, so arranged that the plug may be pulled out to open the circuit without leaving any live parts so exposed as to render likely accidental contact therewith. The connector may be located at either end of the flexible conductor or inserted in the conductor itself.

d. Smoothing irons, sad irons and other heating devices that are intended to be applied to combustible articles, must be provided with approved stands.

e. Stationary heaters, such as radiators, ranges, plate warmers, etc., must be so located as to furnish ample protection between the device and surrounding combustible material.

f. Electric heaters must each be provided with a name-plate giving the maker's name and the normal capacity in volts and amperes.

§ 426. Wires, low potential systems.

1. *General Rules.*

a. Wires where entering cabinets must be protected by approved bushings, which fit tightly the holes in the box and are well secured in place. The wires should completely fill the holes in the bushings so as to keep out the dust, tape being used to build up the wires if necessary.

b. Wires must not be laid in plaster, cement or similar finish, and must never be fastened with staples.

c. Wires must not be fished for any great distance, and only in places where the inspector can satisfy himself that the rules have been complied with.

d. Twin wires must never be used, except in conduits, or where flexible conductors are necessary.

e. Wires must, where exposed to mechanical injury, be suitably protected. When crossing floor timbers in cellars, or in rooms where they might be exposed to injury, wires must be attached by their insulating supports to the under side of a wooden strip, not less than ½ inch in thickness, and not less than 3 inches in width. Instead of the running-boards, guard strips on each side of and close to the wires will be accepted, these strips to be not less than ⅞ inch in thickness, and at least as high as the insulators.

Protection on side walls must extend not less than 5 feet from the floor and must consist of substantial boxing, retaining an air space of 1 inch around the conductors, closed at the top (the wires passing through bushel holes) or approved metal conduit or pipe of equivalent strength.

When metal conduit or pipe is used, the insulation of each wire must be reinforced by approved flexible tubing extending from the insulator next below the pipe to the one next above it, unless the conduit is installed according to § 428, paragraphs c and f thereof excepted, and the wire is approved for conduit use. The two or more wires of a circuit each with its flexible tubing (when required), if carrying alternating current must, or if direct current may, be placed within the same pipe.

f. When run in unfinished attics, wires will be considered as concealed, and when run in close proximity to water tanks or pipes, they will be considered as exposed to moisture.

In unfinished attics wires are considered as exposed to mechanical injury, and must not be run on knobs or upper edge of joists.

2. *Open work in dry places.*

g. Wires must have an approved rubber (type letter R. S.), slow-burning, weatherproof (type letter S. B. W.), or slow-burning insulation (type letter S. B.). Slow-burning insulation may be used only in permanently dry locations and under special permission in writing, given in advance.

h. Wires must be rigidly supported on non-combustible, non-absorptive insulators, which will separate the wires from each other and from the surface wired over in accordance with the following table:

Voltage—0 to 300; distance from surface, ½ inch; distance between wires, 2½ inches.

Voltage—301 to 550; distance from surface, 1 inch; distance between wires, 4 inches.

Rigid supporting requires under ordinary conditions, where wiring along flat surfaces, supports at least every 4½ feet. If the wires are liable to be disturbed, the distance between supports must be shortened. In buildings of mill construction, mains of not less than No. 8 B. & S. gage, where not liable to be disturbed, may be separated about 6 inches, and run from timber to timber, not breaking around, and may be supported at each timber only.

Wires must not be "dead-ended" at a rosette, socket or receptacle unless the last support is within 12 inches of the same.

3. *Open work in damp places, or buildings specially subject to moisture or to acid or other fumes.*

i. Wires must have an approved insulating covering.

For protection against water, rubber insulation must be used. For protection against corrosive vapors, either weatherproof or rubber insulation must be used.

j. Wires must be rigidly supported on non-combustible, non-absorptive insulators, which separate the wire at least 1 inch from the surface wired over, and must be kept apart at least 2½ inches for voltages up to 300, and 4 inches for higher voltages.

Rigid supporting requires under ordinary conditions, where wiring over flat surfaces, supports at least every 4½ feet. If the wires are liable to be disturbed, the distance between supports must be shortened. In buildings of mill construction, mains of not less than No. 8 B. & S. gage, where not liable to be disturbed, may be separated about 6 inches, and run from timber to timber, not breaking around, and may be supported at each timber only.

4. *Metal moulding work.*

k. Wires must have an approved rubber insulating covering (Type Letter R. S.), and must be in continuous lengths from outlet to outlet, or from fitting to fitting, no joints or taps to be made in moulding. Where branch taps are necessary in moulding work approved fittings for this purpose must be used.

l. Wires must never be placed in moulding in damp locations; must never be placed in moulding in concealed locations or where the difference of potential between any two wires in the same system is over 300 volts. When the electrical construction is being carried out in moulding, permission will be given to extend these mouldings through walls and partitions, if the moulding and capping are in continuous lengths where passing through the walls and partitions. Mouldings must not be used for circuits requiring more than 1,320 watts of energy.

m. Wires must for alternating current systems if in metal moulding have the two or more wires of a circuit installed in the same moulding.

5. *Conduit work.*

n. Wires must have an approved rubber insulating covering (type letter R. D.); and must within the conduit tubing be without splices or taps, and must be provided with a lead covering if the conduit is installed in a damp place and is not watertight.

o. Wires must not be drawn in until all mechanical work on the building has been, as far as possible, completed.

Conductors in vertical conduit risers must be supported within the conduit system in accordance with the following table:

No. 14 to 0 every 100 feet.
No. 00 to 0000 every 80 feet.
0000 to 350,000 C. M. every 60 feet.
350,000 C. M. to 500,000 C. M. every 50 feet.
500,000 C. M. to 750,000 C. M. every 40 feet.
750,000 C. M. every 35 feet.

The following methods of supporting cables are recommended:

1. A turn of 90 degrees in the conduit system will constitute a satisfactory support.

2. Junction boxes may be inserted in the conduit system at the required intervals, in which insulating supports of approved type must be installed and secured in a satisfactory manner so as to withstand the weight of the conductors attached thereto, the boxes to be provided with proper covers.

3. Cables may be supported in approved junction boxes on two or more insulating supports so placed that the conductors will be deflected at an angle of not less than 90 degrees, and carried a distance of not less than twice the diameter of the cable from its vertical position. Cables so suspended may be additionally secured to these insulators by tie wires.

Other methods may be used, if specially approved.

p. Wires must, for alternating systems, have the two or more wires of a circuit drawn in the same conduit.

Except in the case of stage pocket and border circuits the same conduit must not contain more than four two-wire, or three three-wire circuits of the same system, except by special permission, and must never contain circuits of different systems.

6. *Concealed "knob and tube" work.*

q. The installation of concealed knob and tube work is prohibited.

7. *Fixture work.*

v. Wires must not be smaller than No. 18 B. & S. gage and must have an approved rubber insulating covering (see § 555 of this chapter).

In wiring certain designs of show-case fixtures, ceiling bulls-eyes and similar appliances in which the wiring is exposed to temperatures in excess of 120 degrees Fahrenheit (49 degrees Centigrade), from the heat of the lamps, approved slow-burning wire may be used. All such forms of fixtures must be submitted for examination, test and approval before being introduced for use.

w. Supply conductors, and especially the splices to fixture wires, must be kept clear of the grounded part of gas pipes, and, where shell or outlet boxes are used, they must be made sufficiently large to allow the fulfillment of this requirement.

x. Must, when fixtures are wired outside, be so secured as not to be cut or abraded by the pressure of the fastenings or motion of the fixture.

y. Wires of different systems must never be contained in or attached to the same fixture and under no circumstances must there be a difference of potential of more than 300 volts between wires contained in or attached to the same fixture.

§ 427. Armored cables.

a. Armored cables must be continuous from outlet to outlet or to junction boxes, and the armor of the cable must properly enter and be secured to all fittings, and the entire system must be mechanically secured in position.

In case of service connections and main runs, this involves running such armored cables continuously into a main cut-out cabinet or gutter surrounding the panel board, as the case may be.

b. Armored cables must be equipped at eevry outlet with an approved outlet box or plate, as required in conduit work.

Outlet plates must not be used where it is practicable to install outlet boxes.

For concealed work in walls and ceilings composed of plaster on wooden joist or stud construction, outlet boxes or plates and also cut-out cabinets must be so installed that the front edge will not be more than ¼ inch back of the finished surface of the plaster, and if this surface is broken or incomplete it shall be repaired so that it will not show any gaps or open spaces around the edges of the outlet box or plate or of the cut-out cabinet. On wooden walls or ceilings, outlet boxes or plates and cut-out cabinets must be so installed that the front edge will either be flush with the finisher surface or project therefrom. This will not apply to concealed work in walls or ceilings composed of concrete, tile or other non-combustible material.

In buildings already constructed where the conditions are such that neither outlet box nor plate can be installed, these appliances may be omitted by special permission, provided the armored cable is firmly and rigidly secured in place.

c. Armored cables must have the metal armor of cables permanently and effectually grounded to water piping, gas piping or other suitable grounds, provided that when connections are made to gas piping they must be on the street side of the meter. If the armored cable system consists of several separate sections, the sections must be bonded to each other, and the system grounded, or each section may be separately grounded, as required above.

The armor of cables and gas pipes must be securely fastened in outlet boxes, junction boxes and cabinets, so as to secure good electrical connection.

If armor of cables and metal of couplings, outlet boxes, junction boxes, cabinets or fittings, having protective coating of non-conducting material, such as enamel, are used, such coating must be thoroughly removed from threads of both couplings and the armor of cables, and from surfaces of the boxes, cabinets and fittings where the armor of cables or ground clamp is secured in order to obtain the requisite good connection. Ground pipies must be cleaned of rust, scale, etc., at place of attachment of ground clamp.

Connections to grounded pipes and to armor of cables must be exposed to view or readily accessible, and must be made by means of approved ground clamps, to which the ground wires must be soldered.

Ground wires must be of copper, at least No. 10 B. & S. gage (where largest wire contained in cable is not greater than No. 0 B. & S. gage), and need not be greater than No. 4 B. & S. gage (where largest wire contained in cable is greater than No. 0 B. & S. gage). They shall be protected from mechanical injury.

d. When installed in so-called fireproof buildings in course of construction or afterwards if exposed to moisture, or where it is exposed to the weather, or in damp places such as breweries, stables, etc., the cable must have a lead covering placed between the outer braid of the conductors and the steel armor.

The lead covering is not to be required when the cable is run against brick walls or laid in ordinary plaster walls unless same are continuouosly damp.

e. Where entering junction boxes, and at all other outlets, etc., armored cables must be provided with approved terminal fittings which will protect the insulation of the conductors from abrasion, unless such junction or outlet boxes are specially designed and approved for use with the cable.

f. Junction boxes must always be installed in such a manner as to be accessible.

g. For alternating current systems, armored cables must have the two or more conductors of the circuit enclosed in one metal armor.

h. All bends must be so made that the armor of the cable will not be injured. The radius of the curve of the inner edge of any bend shall not be less than 1½ inches.

§ 428. Interior conduits.

a. No conduit smaller than ½ inch, electrical trade size, shall be used. Measurements are to be taken inside of metal conduits.

b. Interior conduits must be continuous from outlet to outlet or to junction boxes or cabinets, and the conduit must properly enter, and be secured to all fittings and the entire system must be mechanically secured in position.

In case of service connections and main runs, this involves running each conduit continuously into a main cut-out cabinet or gutter surrounding the panel board, as the case may be. Departure from this rule may be authorized in case of underground services by special permission.

c. Interior conduits must be first installed as a complete conduit system, without the conductors.

d. Interior conduits must be equipped at every outlet with an approved outlet box or plate. At exposed ends of conduit (but not at fixture outlets) where wires pass from the conduit system without splice, joint or tap, an approved fitting having separately bushed holes for each conductor must be used. Departure from this rule may be authorized by special permission.

Outlet plates must not be used where it is practicable to install outlet boxes.

For concealed work in walls and ceilings composed of plaster on wooden joist or stud construction, outlet boxes or plates and also cut-out cabinets must be so installed that the front edge will not be more than ¼ inch back of the finished surface of the plaster, and if this surface is broken or incomplete it shall be repaired so that it will not show any gaps or open spaces around the edges of the outlet box or plate or of the cut-out cabinet. On wooden walls or ceilings, outlet boxes or plates and cut-out cabinets must be so installed that the front edge will either be flush with the finished surface or project therefrom. This will not apply to concealed work in walls or ceilings composed of concrete, tile or other non-combustible material.

In buildings already constructed where the conditions are such that neither outlet box nor plate can be installed, these appliances may be omitted providing the conduit ends are bushed and secured.

e. Metal conduits where they enter junction boxes, and at all other outlets, etc., must be provided with approved bushings or fastening plates fitted so as to protect wire from abrasion, except when such protection is obtained by the use of approved nipples, properly fitted in boxes or devices.

f. Interior conduits must have the metal of the conduit permanently and effectually grounded to water piping, gas piping or other suitable grounds, provided that when connections are made to gas piping, they must be on the street side of the meter. If the conduit system consists of several separate sections, the sections must be bonded to each other, and the system grounded, or each section may be separately grounded, as required above. Where short sections of conduit (or pipe of equivalent strength) is used for the protection of exposed wiring on side walls, and such conduit or pipe and wiring is installed as required by § 426e of this chapter, the conduit or pipe need not be grounded.

Conduits and gas pipes must be securely fastened in outlet boxes, junction boxes and cabinets, so as to secure good electrical connections.

If conduit couplings, outlet boxes, junction boxes, cabinets or fittings, having protective coating of non-conducting material such as enamel are used, such coating must be thoroughly removed from threads of both couplings and conduit, and such surfaces of boxes, cabinets and fittings where the conduit or ground clamp is secured in order to obtain the requisite good connection. Grounded pipes should be cleaned of rust, scale, etc., at place of attachment of ground clamp.

Connections to grounded pipes and to conduit must be exposed to view or readily accessible, and must be made by means of approved ground clamps to which the ground wires must be soldered.

Ground wires must be of copper at least No. 10 B. & S. gage (where largest wire contained in conduit is not greater than No. 0 B. & S. gage), and need not be greater than No. 4 B. & S. gage (where largest wire contained in conduit is greater than No. 0 B. & S. gage). They shall be protected from mechanical injury.

g. Junction boxes must always be installed in such a manner as to be accessible.

h. All elbows or bends must be so made that the conduit will not be injured. The radius of the curve of the inner edge of any elbow shall not be less than 3¼ inches. There must be not more than the equivalent of 4 quarter bends from outlet to outlet, the bends at the outlets not being counted.

§ 429. Metal mouldings.

a. Metal moulding must be continuous from outlet to outlet, to junction boxes, or approved fittings designed especially for use with metal mouldings, and must at all outlets be provided with approved terminal fittings which will protect the insulation of conductors from abrasion, unless such protection is afforded by the construction of the boxes or fittings.

b. Such moulding where passing through a floor must be carried through an iron pipe extending from the ceiling below to a point 5 feet above the floor, which will serve as an additional mechanical protection and exclude the presence of moisture often prevalent in such locations.

Where the mechanical strength of the moulding itself is adequate, this ruling may be modified to require the protecting piping from the ceiling below to a point at least 3 inches above the flooring.

Where such mouldings pass through a partition the iron pipe required for passing through floors may be omitted and the moulding passed directly through, providing the partition is dry and the moulding is in a continuous length with no joint or couplings within the partition.

c. Backing must be secured in position by screws or bolts, the heads of which must be flush with the metal.

d. Metal moulding must be permanently and effectively grounded to water piping, gas piping, or other suitable grounds, provided that when connections are made to gas piping, they must be on the street side of the meter. If the metal moulding system consists of several separate sections, the sections must be bonded to each other and the system grounded, or each section may be separately grounded, as required above.

Metal mouldings and gas pipes must be securely fastened to outlet boxes, junction boxes and cabinets, so as to secure a good electrical connection. Moulding must be so installed that adjacent lengths of moulding will be mechanically and electrically secured at all points.

If metal moulding, couplings, outlet boxes, junction boxes, cabinets or fittings having protective coating of non-conducting material such as enamel are used, such coating must be thoroughly removed from threads of couplings and metal mouldings, and from the surfaces of boxes, cabinets and fittings, where the metal moulding or ground clamp is secured in order to obtain the requisite good connection. Grounded pipes should be cleaned of rust, scale, etc., at the place of attachment of the ground clamp.

Connection to grounded pipes and to metal mouldings must be exposed to view, or readily accessible, and must be made by means of approved ground clamps, to which the wires must be soldered.

Ground wires must be of copper, at least No. 10 B. & S. gage. They shall be protected from mechanical injury.

e. Must be installed so that for alternating systems the two or more wires of a circuit will be in the same metal moulding.

§ 430. Fixtures.

a. When supported at outlets in metal conduit, armored cable or metal moulding systems, or from gas piping or any grounded metal work, or when installed on metal walls or ceilings, or on plaster walls or ceilings containing metal lath, or on walls or ceilings in fireproof buildings, fixtures must be insulated from such supports by approved insulating joints placed as close as possible to the ceilings or walls. The insulating joint may be omitted in conduit, armored cable or metal moulding systems with straight electric fixtures in which the insulation of conductors is the equivalent of insulation in other parts of the system, and provided that approved sockets, receptacles or wireless clusters are used, of a type having porcelain or equivalent insulation between live metal parts and outer metal shells, if any.

Gas pipes must be protected above the insulating joint by approved insulating tubing, and where outlet tubes are used they must be of sufficient length to extend below the insulating joint, and must be so secured that they will not be pushed back when the canopy is put in place.

Where insulating joints are required, fixture canopies of metal must be thoroughly and permanently insulated from walls or ceilings, or from plaster walls or ceilings on metal lathing, and from outlet boxes.

Canopy insulators must be securely fastened in place, so as to separate the canopies thoroughly and permanently from the surfaces and outlet boxes from which they are designed to be insulated.

Fixtures having so-called flat canopies, tops or backs will not be approved for installation except where outlet boxes are used.

b. Fixtures must, when installed out doors, be of watertight construction.

c. Fixtures must not, when wired on the outside, be used in show windows or in the immediate vicinity of especially inflammable stuff.

d. Fixtures must be free from short circuits between conductors and from contacts between conductors and metal parts of fixtures, and must be tested for such conditions before being connected to supply conductors.

§ 431. Sockets.

a. In rooms where inflammable gases may exist the incandescent lamp and socket must be enclosed in a vapor-tight globe, and supported on a pipe-hanger, wired with approved rubber-covered wire soldered directly to the circuit.

b. In damp or wet places, or where exposed to corrosive vapors, weatherproof sockets especially approved for the location must be used. Unless made up on fixtures they must be hung by separate stranded rubber-covered wires not smaller than No. 14 B. & S. gauge, which should preferably be twisted together when the pendant is over 3 feet long.

These wires must be soldered direct to the circuit wires but supported independently of them.

c. Key sockets will not be approved if installed over specially inflammable stuff, or where exposed to flyings of combustible material.

§ 432. Flexible cord.

a. Flexible cord must have an approved insulation and covering.

b. Flexible cord must not be used where the difference of potential between the two wires is over 300 volts.

c. Flexible cord must not be used as a support for clusters.

d. Flexible cord must not be used except for pendants, wiring of fixtures, portable lamps or motors, and portable heating apparatus.

For all portable work, including those pendants which are liable to be moved about sufficiently to come in contact with surrounding objects, flexible wires and cables especially designed to withstand this severe service must be used.

When necessary to prevent portable lamps from coming in contact with inflammable materials, or to protect them from breakage, they must be surrounded with a substantial wire guard.

e. Flexible cord must not be used in show windows or show cases, except when provided with an approved metal armor. Departure from this rule, in the case of chain fixtures, may be authorized only under special permission in writing.

f. Flexible cord must be protected by insulating bushings where the cord enters the socket.

g. Flexible cord must be so suspended that the entire weight of the socket and lamp will be borne by some approved method under the bushing in the socket, and above the point where the cord comes through the ceiling block or rosette, in order that the strain may be taken from the joints and binding screws.

§ 433. Arc lamps on constant-potential circuits.

a. There must be a cut-out (see § 419 of this chapter) for each lamp or each series of lamps.

The branch conductors must have a carrying capacity about 50 per cent. in excess of the normal current required by the lamp.

b. Arc lamps must be furnished only with such resistances or regulators as are enclosed in non-combustible material, such resistances being treated as sources of heat. Incandescent lamps must not be used for this purpose.

c. Arc lamps must be supplied with globes and protected by spark arresters and wire netting around the globe, as in the case of series arc lamps (see § 421 of this chapter).

Outside arc lamps must be suspended at least 8 feet above sidewalks. Inside arc lamps must be placed out of reach or suitably protected.

d. Arc lamps, when arranged to be raised and lowered, either for carboning or other purposes, shall be connected up with stranded conductors from the last point of support to the lamp, when such conductor is larger than No. 14 B. & S. gage.

§ 434. Vapor lamps.

1. *Enclosed mercury vapor lamps.*

a. Enclosed mercury vapor lamps must have a cut-out for each lamp or series of lamps except when contained in a single frame and lighted by a single operation, in which case not more than 5 lamps should be dependent upon a single cut-out.

b. Enclosed mercury vapor lamps must be furnished only with such resistances or regulators as are enclosed in non-combustible cases, such resistances to be treated as sources of heat. In locations where these resistances or regulators are subject to flyings of lint or combustible material, all openings through cases must be protected by fine wire gauze.

2. *High-potential vacuum tube systems.*

c. The tube must be so installed as to be free from mechanical injury or liability to contact with inflammable material.

d. High-potential coils and regulating apparatus must be installed in approved steel cabinet not less than 1/10 inch in thickness; same to be well ventilated in such a manner as to prevent the escape of any flame or sparks, in case of burnout in the various coils. All apparatus in this box must be mounted on slate base and the enclosing case positively grounded. Supplying conductors leading into this high-potential case are to be installed in accordance with the standard requirements governing low-potential systems, where such wires do not carry a potential of over 300 volts.

§ 435. Economy coils.

a. Economy and compensator coils for arc lamps must be mounted on non-combustible, non-absorptive, insulating supports, such as glass or porcelain, allowing an air space of at least 1 inch between frame and support, and must in general be treated as sources of heat.

§ 436. Transformers, low-potential.

1. *Oil transformers.*

a. Must not be placed inside of any building except central stations, sub-stations and transformer vaults, except by special permission.

2. *Air cooled transformers.*

b. Air cooled transformers must not be placed inside of any building excepting central stations, sub-stations and transformer vaults, if the highest voltage of either primary or secondary exceeds 550 volts.

c. Air cooled transformers must, with the exception of bell-ringing and other signaling transformers, be so mounted that the case shall be at a distance of at least 1 foot from combustible material or separated therefrom by non-combustible, non-absorptive, insulating material, such as slate, marble or soapstone. This will require the use of a slab or panel somewhat larger than the transformer.

§ 437. Decorative lighting systems.

a. Special permission in writing may be given for the temporary installation of approved systems of decorative lighting, provided the difference of potential between the wires of any circuit shall not be over 150 volts and also provided that no group of lamps requiring more than 1,320 watts shall be dependant on one cut-out.

§ 438. Theater and moving picture establishment wiring.

All wiring, apparatus, etc., not specifically covered by this section must conform to the general requirements of this chapter, and the term "theater" shall mean a building, or that part of a building regularly or frequently used for dramatic, operatic, moving picture or other performances or shows or which has a stage for such performances used with scenery or other stage appliances.

a. Services.

Where supply may be obtained from 2 separate street mains, 2 separate and distinct services must be installed, one service to be of sufficient capacity to supply current for the entire equipment of theater, while the other service must be at least of sufficient capacity to supply current for all emergency lights. Where supply cannot be obtained from 2 separate sources, the feed for emergency lights must be taken from a point on the street side of main service fuses. By "emergency lights" are meant exit lights and all lights in lobbies, stairways, corriders, and other portions of theater to which the public have access, which are normally kept lighted during the performance.

Where source of supply is an isolated plant within the same building, an auxiliary service of at least sufficient capacity to supply all emergency lights must be installed from some outside source, or a suitable storage battery within the premises may be considered the equivalent of such service.

b. Stage.

All permanent construction on stage side of proscenium wall, except as hereinafter provided, must be approved conduit or armored cable.

c. Switchboards must be of the dead front type and made of non-combustible, non-absorptive insulating material, plans of each board to be approved before installation.

d. Footlights must be wired in approved conduit or armored cable, each lamp receptacle being enclosed within an approved outlet box, or the lamp receptacles may be mounted in an iron or steel box, metal to be of a thickness not less than No. 20 U. S. sheet metal gage, treated to prevent oxidation, so constructed as to enclose all the wires; wires to be soldered to lugs of receptacles.

Footlights must be so wired that no set of lamps requiring more than 1,320 watts nor more than 32 receptacles shall be dependent upon one cut-out.

e. Borders and proscenium sidelights.

1. Borders and proscenium sidelights must be constructed of steel of a thickness not less than No. 20 U. S. sheet metal gage, treated to prevent oxidation, be suitably stayed and supported, and so designed that flanges of reflectors witll protect lamps.

2. Borders and proscenium sidelights must be so wired that no set of lamps requiring more than 1,320 watts nor more than 32 receptacles shall be dependent upon one cut-out.

3. Borders and proscenium sidelights must be wired in approved conduit or armored cable, each lamp receptacle to be enclosed within an approved outlet box, or the lamp receptacles may be mounted in an iron or steel box, metal to be of a thickness not less than No. 20 U. S. sheet metal gage, treated to prevent oxidation, so constructed as to enclose all wires, the wires to be soldered to lugs of receptacles.

4. Borders and proscenium sidelights must be provided with suitable guards to prevent scenery or other combustible material coming in contact with lamps.

5. Cables for borders must be of approved type and suitably supported; conduit construction must be used from switchboard to point where cables must be flexible to permit of the raising and lowering of border.

6. For the wiring of the border proper, wire with approved slow-burning insulation must be used.

7. Borders must be suitably suspended, and if a wire rope is used same must be insulated by at least one strain insulator inserted at the border.

f. Stage and gallery pockets must be of approved type, insulated from ground and controlled from switchboard, each receptacle to be not less than 35 ampere rating for arc lamps nor 15 amperes for incandescent lamps, and each receptacle to be wired to its full capacity. Arc pockets must be wired with wire not smaller than No. 6 B. & S. gage and incandescent pockets with not less than No. 12 B. & S. gage.

Plugs for arc and incandescent pockets must not be interchangeable.

g. Scene docks.

Where lamps are installed in scene docks, they must be so located and installed that they will not be liable to mechanical injury.

h. Curtain motors must be of ironclad type and installed as to conform to the requirements of this chapter (see §208).

i Control for stage flues.

In cases where dampers are released by an electric device, the electric circuit operating same must be normally closed.

Magnet operating damper must be wound to take full voltage of circuit by which it is supplied, using no resistance device, and must not heat more than normal for apparatus of similar construction. It must be located in loft above scenery, and be installed in a suitable iron box with a tight self-closing door.

Such dampers must be controlled by at least 2 standard single pole switches mounted within approved iron boxes provided with self-closing doors, without lock or latch, and located, one at the electrician's station and others as designated.

j. Dressing rooms must be wired in approved conduit or armored cable.

All pendant lights must be equipped with approved reinforced cord, armored cable or steel armored flexible cord.

All lamps must be provided with approved guards.

k. Portable equipment.

Arc lamps used for stage effects must conform to the following requirements:

1. Must be constructed entirely of metal except where the use of approved insulating material is necessary.

2. Must be substantially constructed, and so designed as to provide for proper ventilation, and to prevent sparks being emitted from lamps when same are in operation, and mica must be used for frame insulation.

3. Front opening must be provided with a self-closing hinged door frame, in which wire gauze or glass must be inserted, except in the case of lens lamps, where the front may be stationary, and a solid door be provided on back or side.

4. Must be so constructed that neither carbons nor live parts will be brought into contact with metal of hood during operation, and arc lamp frames and standards must be so installed and protected as to prevent the liability of their being grounded.

5. Switch on standard must be so constructed that accidental contact with any live portion of same will be impossible.

6. All stranded connections in lamps and at switch and rheostat must be provided with approved lugs.

7. Rheostats must be plainly marked with their rated capacity in volts and amperes, and, if mounted on standards, must be raised to a height of at least 3 inches above floor. Resistance must be enclosed in a substantial and properly ventilated metal case which affords a clearance of at least 1 inch between case and resistance element.

8. A competent operator must be in charge of each arc lamp, except that 1 operator may have charge of 2 lamps when they are not more than 10 feet apart, and are so located that he can properly watch and care for both lamps.

l. Bunches must be substantially constructed of metal and must not contain any exposed wiring; cable feeding bunches must be bushed in an approved manner where passing through the metal, and must be properly secured to prevent any mechanical strain from coming on the connection.

m. Strips must be constructed of steel of a thickness not less than No. 20 U. S. sheet metal gage, treated to prevent oxidation, and suitably stayed and supported and so designed that flanges will protect lamps. Cable must be bushed in a suitable manner where passing through the metal, and must be properly secured to prevent serious mechanical strain from coming on the connections. Strips must be wired in approved conduit or armored cable, each lamp receptacle being enclosed within an approved outlet box or the lamp receptacles may be mounted in an iron or steel box, metal to be of a thickness not less than No. 20 U. S. sheet metal gage, treated to prevent oxidation, so constructed as to enclose all wires, the wires to be soldered to lugs or receptacles.

n. Portable plugging boxes must be so constructed that no current carrying part will be exposed, and each receptacle must be protected by approved fuses mounted on slate or marble bases and enclosed in a firproof cabinet equipped with self-closing doors. Each receptacle must be constructed to carry 30 amperes without undue heating, and the busbars must have a carrying capacity equivalent to the current required for the total number of receptacles, and approved lugs must be provided for the connection of the master cable.

o. Pin plug connectors must be of an approved type, so installed that the female part of plug will be on live end of cable, and must be so constructed that tension on the cable will not cause any serious mechanical strain on the connections.

p. Portable conductors. Flexible conductors used for receptacles to arc lamps, bunches and other portable equipments must be approved stage cable, except that for the purpose of feeding a stand lamp under conditions where conductors are not liable to severe mechanical injury an approved reinforced cord may be used, provided cut-out designed to protect same is not fused over 6 amperes capacity.

q. Lights on scenery. Where brackets are used they must be wired entirely on the inside, fixture stem must come through to the back of the scenery and end of stem be properly bushed.

r. String or festooned light wiring must be of approved type, joints to be properly made, soldered and taped, and staggered where practicable.

Where lamps are used in lanterns or similar devices, approved guards must be employed.

s. Special electrical effects. Where devices are used for producing special effects such as lightning, waterfalls, etc., the apparatus must be so constructed and located that flames, sparks, etc., resulting from the operation cannot come in contact with combustible material.

t. Auditorium wiring must be installed in approved conduit, metal moulding or armored cable. Where receptacles are used, they must be enclosed in approved boxes.

Exit lights must not have more than 1 set of fuses between same and service fuses. Exit lights and all lights in halls, corridors or any other part of the building used by audience, except the general auditorum lighting, must be fed independently of the stage lighting, and must be controlled only from the lobby or other convenient place in front of the house. All fuses must be enclosed in approved cabinets.

u. Moving picture equipments other than those of approved miniature type.

1. The arc lamp used as a part of a moving picture machine must be constructed, so far as practicable, similar to arc lamps of theatres, and wiring to same must not be of less capacity than No. 6 B. &. S. gage. The leads to the lamp and its rheostat or equivalent device must be protected by a plug cutout or open link fuses, the latter enclosed in an approved cabinet with self-closing door. Cartridge fuses will not be permitted.

2. Rheostats, transforming devices or any substitute therefor must be of types expressly designed and approved for the purpose. Their installation and location must be subject to approval as parts of the moving picture machine.

3. Top and bottom reels must be enclosed in steel boxes or magazines, each with an opening of approved construction at bottom or top, so arranged as not to permit entrance of flame to magazine. No solder is to be used in the construction of these magazines. The front side of each magazine must consist of a door swinging horizontally and be provided with a substantial latch.

4. An automatic shutter must be provided and must be so constructed as to shield the film from the beam of light whenever the film is not running at operating speed. Shutter must be permanently attached to the gate frame.

5. Extra films must be kept in individual metal boxes equipped with tight-fitting covers.

6. Machine operation must be of an approved type. If driven by a motor, the latter must be of a type expressly designed and approved for such operations, and when so approved, motor driven machines, when in charge of a skilled operator, may be authorized under special permission in writing, given in advance.

7. Machine must be placed in an enclosure or house made of suitable fireproof material; must be properly ventilated, properly lighted and large enough for operator to walk freely on either side of or back of machine. All openings into this booth must be arranged so as to be entirely closed by doors or shutters constructed of the same or equally good fire-resisting material as the booth itself. Doors or covers must be arranged so as to be held normally closed by spring hinges or equivalent devices.

8. Reels containing films under examination or in process of rewinding must be enclosed in magazines or approved metal boxes, similar to those required for films in operation, and not more than 2 feet of film shall be exposed in booth.

v. Moving picture equipments of approved miniature type for home, lecture and similar purposes.

1. Arc lamp used as a part of machine must be constructed so far as practicable similar to arc lamps of theatres, and must not require more than 350 watts to operate same.

2. The rheostat or other current controlling device must conform to the requirements for similar devices for theatre work, and must be attached to and form a part of the machine.

3. Films must be of the non-inflammable type.

4. Such miniature machine shall be operated in an approved box of fireproof material constructed with a fusible link or other approved releasing device to close instantaneously and completely in case of combustion within the box. The light in said miniature machine shall be completely enclosed in a metal lantern box covered with an unremovable roof.

§ 439. Outline Lighting.

a. Outline lighting must be connected only to low-potential systems.

b. Open or conduit work or metal trough construction may be used, but moulding will not be permitted.

c. Where flexible tubing is required, the ends must be sealed and painted with moisture repellent and kept at least ¼ inch from surface wired over.

d. Wires for use in rigid or flexible steel conduit must comply with requirements for conduit work. Where armored cable is used, the conductors must be protected from moisture by lead sheath between armor and insulation.

e. Outline lighting must be protected by its own cut-out, and controlled by its own switch; single pole switches must not be used. Cut-outs, switches, flashers and similar appliances must be of approved types and be installed as required by this chapter for such appliances, and, if outside of the building, must, with the exception of transformers of weatherproof type, be installed in approved weatherproof cabinets.

f. Circuits must be so arranged that not more than 1,320 watts will be dependent upon one cut-out.

8. Sockets and receptacles must be of the keyless porcelain type and wires must be soldered to lugs on same. Miniature receptacles will not be approved for outdoor work.

h. For open work, wires must be approved rubber covered, not less than No. 14 B. & S. gage and must be rigidly supported on non-combustible, non-absorptive insulators, which separate the wires at least 1 inch from the surface wired over. Rigid supporting requires, under ordinary conditions where wiring over flat surfaces, supports at least every 4½ feet. If the wires are liable to be disturbed, the distance between supports should be shortened. In those parts of circuits where wires are connected to approved receptacles which hold them at least 1 inch from surface wired over, and which are placed not over 1 foot apart, such receptacles will be considered to afford the necessary support and spacing of the wires. Between receptacles more than 1 foot, but less than 2 feet apart, an additional non-combustible, non-absorptive insulator maintaining a separation and spacing equivalent to the receptacles must be used. Except as above specified, wires must be kept apart at least 2½ inches for voltages up to 300, and 4 inches for higher voltages.

i. For metal trough construction, the troughs and other details must comply with the requirements of § 583 No. 83 a to f, hereof.

§ 439a. Garages.

1. *Definition.* A garage is that portion of a building in which any automobile carrying volatile inflammable liquid is kept, whether such automobile be kept for use, for sale, for rental, for exhibition or for demonstrating purposes; and all that portion of a building that is on or below the floor or floors on which an automobile carrying volatile inflammable liquid is kept and is not separated therefrom by tight unpierced fire walls and floors.

2. *Wiring and appliances.* a. Approved metal conduit or approved armored cable must be employed, except in offices and show rooms, where approved metal moulding may be used.

b. Cutouts, switches, receptacles and sockets which are permanently located must be placed at least 4 feet above the floor.

c. Switchboards and charging panels, if not placed 4 feet above the floor must be located in a fireproof enclosure provided with a self-closing door.

d. For portable lights, flexible cable designed for rough usage must be employed, this cable carrying the male end of a pin plug connector or equivalent of at least 3 amperes capacity, the female end being of such design or so hung that the connector will break apart readily at any position of the cable. The connector must be kept at least 4 feet above the floor. For all portable lights, keyless molded-mica or metal sheathed porcelain sockets equipped with handle, hook and guard must be employed.

e. For charging, theater stage cable must be employed, this cable carrying the female end of a pin plug connector or equivalent of a capacity of at least 50 amperes, the male end being of such design or so hung that the connector will break apart readily at any positon of the cable. The connector must be kept at least 4 feet above the floor, and the male end, if not located on a switchboard or charging panel, must be shielded against accidental contact.

f. Motors, if not located at least 4 feet above the floor, must be of the fully enclosed type.

§ 442. Lighting and power from railway wires must not be permitted, under any pretense, in the same circuit with trolley wires with a ground return, except in electric railway cars, electric car houses, power houses, passenger and freight stations connected with the operation of electric railways.

§ 443. Electric cranes. All wiring, apparatus, etc., not specifically covered by special rules herein given, must conform to the general requirements of this Code, except that the switch required by § 208c of this chapter for each motor may be omitted.

a. Wiring.

1. All wires except bare collector wires, those between resistances and contact plates of rheostats and those subjected to severe external heat, must be approved rubber-covered and not smaller in size than No. 12 B. & S. gage. Insulation on wires between resistances and contact plates of rheostats must conform to paragraph d hereof, while wires subjected to severe external heat must have approved slow-burning insulation.

2. All wires excepting collector wires and those run in metal conduit or approved flexible cable must be supported by knobs or cleats which separate them at least 1 inch from the surface wired over, but in dry places, where space is limted the distance between wires as required by § 426 of this chapter cannot be obtained, each wire must be separately encased in approved flexible tubing securely fastened in place.

Collector wires must be supported by approved insulators so mounted that even with the extreme movement permitted the wires will be separated at all times at least 1½ inches from the surface wired over. Collector wires must be held at the ends by approved strain insulators.

3. Main collector wires carried along the runways must be rigidly and securely attached to their insulating supports at least every 20 feet, and separated at least 6 inches when run in a horizontal plane; if not run in a horizontal plane, they must be separated at least 8 inches. If spans longer than 20 feet are necessary the distance between wires must be increased proportionately, but in no case shall the span exceed 40 feet.

4. Where bridge collector wires are over 80 feet long, insulating supports on which the wires may loosely lie must be provided at least every 50 feet.

Bridge collector wires must be kept at least 2½ inches apart, but a greater spacing should be used whenever it may be obtained.

5. Collector wires must not be smaller in size than specified in the following table for the various spans.

Distance between rigid supports, feet.	Size wire required B. & S.
0 to 30	6
31 to 60	4
Over 60	2

b. Collectors must be so designed that sparking between them and collector wires will be reduced to a minimum.

c. Switches and cut-outs.

1. The main collector wires must be protected by a cut-out and the circuit controlled by a switch. Cut-out and switch shall be so located as to be easy of access from the floor.

2. Cranes operated from cabs must have a cut-out and switch connected into the leads from the main collector wires and so located in the cab as to be readily accessible to the operator.

3. Where there is more than one motor on a single crane, each motor lead must be protected by a cut-out located in the cab if there is one.

d. Controllers must be installed according to § 204 of this chapter, except that if the crane is located out doors the insulation on wires between resistances and contact plates of rheostats must be rubber where the wires are exposed to moisture and insulation is necessary and also where they are grouped. If the crane operates over readily combustible material the resistances must be placed in an enclosure made of noncombustible material, thoroughly ventilated and so constructed that it will not permit any flame or molten metal to escape in the event of burning out the resistances. If the resistances are located in the cab, this result may be obtained by constructing the cab of noncombustible material and providing sides which enclose the cab from its floor to a height of at least 6 inches above the top of the resistances.

e. The motor frames, the entire frame of the crane and the tracks must be permanently and effectively grounded.

§ 444. Wires, high potential systems.

a. High potential wires must have an approved rubber-insulating covering.

b. High potential wires must be always in plain sight and never encased, except as provided for in § 208b of this chapter, or where specially required.

c. High potential wires must, except as provided for in § 208 of this chapter, be rigidly supported on glass or porcelain insulators, which raise the wire at least 1 inch from the surface wired over, and must be kept about 8 inches apart.

Rigid supporting requires, under ordinary conditions, where wiring along flat surfaces, supports at least about every 4½ feet. If the wires are unusually liable to be disturbed, the distance between supports must be shortened.

In buildings of mill construction, mains of not less than No. 8 B. & S. gage, where not liable to be disturbed, may be separated about 10 inches and run from timber to timber, not breaking around, and may be supported at each timber only.

d. High potential wires must be protected on side walls from mechanical injury by a substantial boxing, retaining an air space of 1 inch around the conductors, closed at the top (the wires passing through bushed holes) and extending not less than 7 feet from the floor. When crossing floor timbers, in cellars, or in rooms where they might be exposed to injury, wires must be attached by their insulating supports to the under side of a wooden strip not less than ½ inch in thickness.

§ 445. Transformers, high potential.

a. Transformers must not be placed inside buildings without special permission, and must be located as near as possible to the point at which the primary wires enter the building.

b. Transformers must be placed in an enclosure constructed of fire-resisting material; the enclosure to be used only for this purpose, and to be kept securely locked, and access to the same allowed only to responsible parties.

c. The transformer ease must be permanently and effectually grounded, and the enclosure in which the transformers are placed must be practically air-tight, except that it must be thoroughly ventilated to the outdoor air, if possible, through a chimney or flue. There should be at least 6 inches air space on all sides of the transformer.

§ 447. Primary wires must not be brought into or over buildings, except power stations, sub-stations and transformer vaults.

§ 448. Secondary wires must be installed under rules for high-potential systems when their immediate primary wires carry a current at a potential of over 3,500 volts, unless the primary wires are installed in accordance with the requirements of article 3 of this chapter or are entirely underground.

ARTICLE 5.

Fittings, Materials and Details of Construction.

Section 549. Insulated wires, general rules.
550. Rubber-covered wire
551. Slowburning weatherproof wire.
552. Slowburning wire.
553. Weatherproof wire.
554. Flexible cords.
555. Fixture wire.
556. Conduit wire.
557. Armored cable and cord.
558. Metal conduits.
559. Outlet, junction and flush switch boxes.
560. Metal mouldings.
561. Tubes and bushings.
562. Cleats.
563. Flexible tubing.

564. Knobs.
565. Switches.
566. Circuit breakers.
567. Cutouts.
568. Fuses.
569. Panel boards.
570. Cabinets.
571. Rosettes.
572. Sockets.
573.
574. Arc lamps.
575. Spark arresters.
576. Insulating joints.
577. Fixtures.
578. Rheostats, resistance boxes and equalizers.
579. Auto-starters.
580. Reactive coils and condensers.
581. Transformers.
582. Lightning arresters.
583 Electric signs (for low potential systems only).
584.

§ 549. Insulated wires, general rules.

a. Copper for insulated solid conductors of No. 4 B. & S. gage and smaller must not vary in diameter more than .002 of an inch from the standard. On solid sizes larger than No. 4 B. & S. gage the diameter shall not vary more than 1 per cent. from the specified standard. The conductivity of solid conductors shall not be less than 97 per cent. of that of pure copper of the specified size. In all stranded conductors the sum of the circular mils of the individual wires shall not be less than the nominal circular mils of the strand by more than 1½ per cent. The conductivity of the individual wires in a strand shall not be less than is given in the following table, which applies to tinned conductors (B. & S. gage):

No. 14 B. & S. gage and larger	97.0 per cent.
No. 15	96.8 per cent.
No. 16	96.6 per cent.
No. 17	96.4 per cent.
No. 18	96.2 per cent.
No. 19	96.0 per cent.
No. 20	95.8 per cent.
No. 21	95.6 per cent.
No. 22	95.4 per cent.
No. 23	95.2 per cent.
No. 24	95.0 per cent.
No. 25	94.8 per cent.
No. 26	94.6 per cent.
No. 27	94.4 per cent.
No. 28	94.2 per cent.
No. 29	94.0 per cent.
No. 30	93.8 per cent.

The standard for diameters and milages shall be that adopted by the American Institute of Electrical Engineers. If splices are made in solid conductors or in the individual wires of stranded conductors, they must be made in a workmanlike manner and so as not to increase the diameter of the conductor or individual wire or lessen the mechanical strength thereof. Joints or splices in stranded conductors, as a whole, must be made only by separately joining each individual wire as described above, and the overall diameter of the entire stranded conductor must not be increased thereby.

b. Wires and cables of all kinds designed to meet the following specifications must have a distinctive marking the entire length of the coil so that they may be readily identified in the field. They must also be plainly tagged or marked as follows:

1. The maximum voltage at which the wire is designed to be used;
2. The words "National Electrical Code Standard";
3. Name of the manufacturing company and, if desired, trade name of the wire;
4. Month and year when manufactured;
5. The proper type letter for the particular style of wire or cable as given for each type of insulation in §§ 550 to 557 of this chapter, inclusive.

Wires described under § 553 of this chapter need not have the distinctive marking, but are to be tagged.

§ 550. Rubber-covered wire.

a. Copper for conductors must be thoroughly tinned.

b. The insulation must consist of a rubber compound, homogeneous in character, adhering to the conductor or to the separator, if one is used, and of a thickness not less than that given in the tables of paragraphs e and f of this section. Measurements of insulating wall are to be made at the thinnest portion of the dielectric.

c. Any 1 foot sample of completed covering must show a dielectric strength sufficient to resist throughout 5 minutes the application of an electro-motive force proportionate to the thickness of insulation in accordance with the following table:

Thickness in 64ths inch.	Breakdown test on 1 foot.
1	3,000 volts A. C
2	6,000 volts A. C.
3	9,000 volts A. C
4	11,000 volts A. C.
5	13,000 volts A. C.
6	15,000 volts A. C.
7	16,500 volts A. C.
8	18,000 volts A. C
10	21,000 volts A. C.
12	23,500 volts A. C.
14	26,000 volts A. C.
16	28,000 volts A. C.

The source of alternating electro-motive force shall be a transformer of at least 1 kilowatt capacity. The application of the electro-motive force shall first be made at 3,000 volts for 5 minutes, then the voltage increased by steps of not over 3,000 volts, each held for 5 minutes, until the rupture of the insulation occurs. The tests for dielectric strength shall be made on a sample wire which has been immersed in water for 72 hours. One foot of the wire under test is to be submerged in a conducting liquid held in a metal trough, one of the transformer terminals being connected to the copper of the wire and the other to the metal of the trough.

d. Every length of completed wire or cable must be tested after not less than 12 hours immersion in water and while still immersed by the application for 1 minute of an alternating current voltage derived from apparatus of ample capacity, the test voltages to be those given in the tables of paragraphs e and f of this section.

After this voltage test every length of completed wire or cable while still immersed must show an insulation resistance after 1 minute electrification not less than the values given in paragraphs e and f of this section.

Any length of completed wire or cable may be tested during 30 days' immersion in water and must show not less than 50 per cent. of the insulation resistance required after the 12 hours' immersion.

The results of insulation test at different temperatures to be reduced to a basis of 60 degrees F. (15.5 degrees C.) by using the multipliers in the following table:—

Temp., degs. Fahr.	Multiplier.
50-52	.63
53-55	.75
56-58	.86
59-61	1.00
62-64	1.16
65-67	1.34
68-70	1.55
71-73	1.80
74-76	2.08
77-79	2.40
80-82	2.78
83-85	3.22

e. Thickness of insulation, voltage tests and minimum insulation resistance to be in accordance with the following tables. The voltage tests are to be for 1 minute. The insulation resistances are after 1 minute electrification and at 60 degrees Fahr. (15.5C.).

Tests on completed lengths 0 to 600 volt classes. Type letters R. S.

Size.	Thickness in 64ths inch.	Megohms per mile after 12 hrs. immersion.	Voltage test, one minute.
14	3-64	300	1,500
12	3-64	250	"
10	3-64	225	"
8	3-64	200	"
6	1-16	200	2,000
4	1-16	150	"
2	1-16	125	"
1	5-64	150	2,500
0	5-64	125	"
00	5-64	125	"
000	5-64	100	"
0000	5-64	100	"
225,000 c. m.	3-32	100	3,000
300,000 "	3-32	100	"
400,000 "	3-32	100	"
500,000 "	3-32	100	"
600,000 c. m.	7-64	100	3,500
700,000 "	7-64	100	"
800,000 "	7-64	100	"
900,000 "	7-64	100	"
1,000,000 "	7-64	100	"
1,250,000 "	1-8	100	"
1,500,000 "	1-8	75	3,500
1,750,000 "	1-8	60	"
2,000,000 "	1-8	50	"

f. Tests on completed lengths, 601 to 7,000 volt classes.

Max. operating voltage, 1,500. Type letters R. S.—15.

Size.	Thick. ins.	Ins. res. meg.	Volts test.
B. & S. gage.			
14-8	1-16	600	4,000
7-2	5-64	300	"
1-0000	3-32	200	"
C.M.			
225,000-500,000	7-64	175	"
525,000-1,000,000	1-8	150	"
Over 1,000,000	9-64	100	"

Max. operating voltage, 2,500. Type letters R. S.—25.

Size.	Thick. ins.	Ins. res. meg.	Volts test.
B. & S. gage.			
14-8	3-32	700	6,250
7-2	3-32	350	"
1-0000	7-64	250	"
C.M.			
225,000-500,000	1-8	200	"
525,000-1,000,000	9-64	175	"
Over 1,000,000	10-64	125	"

Max. operating voltage, 3,500. Type letter R. S.—35.

Size.	Thick. ins.	Ins. res. meg.	Volts test.
B. & S. Gage.			
14-8	4-32	850	8,750
7-2	4-32	450	"
1-0000	4-32	300	"
C.M.			
225,000-500,000	9-64	225	"
525,000-1,000.000	10-64	200	"
Over 1,000,000	11-64	150	"

Max. operating voltage, 5,000. Type letter R. S.—50.

Size.	Thick. ins.	Ins. res. meg.	Volts test.
B. & S. Gage.			
14-8	6-32	1,000	12,500
7-2	6-32	650	"
1-0000	6-32	450	"
C.M.			
225,000-500,000	6-32	300	"
525,000-1,000,000	6-32	225	"
Over 1,000,000	7-32	175	"

Max. operating voltage, 7,000. Type letter R. S.—70.

Size.	Thick. ins.	Ins. res. meg.	Volts test.
B. & S. Gage.			
14-8	8-32	1,200	17,500
7-2	8-32	800	"
1-0000	8-32	550	"
C.M.			
225,000-500,000	8-32	400	"
525,000-1,000,000	8-32	275	"
Over 1,000,000	9-32	200	"

g. All physical tests to be made at a temperature between 60 degrees and 90 degrees Fahrenheit. All test samples to be kept at a temperature within this range for at least 2 hours before the tests are made.

1. The rubber compound or other approved insulation must be sufficiently elastic to comply with a test made as follows:

A sample of wire about 20 inches long shall have the braid and insulation removed for about 2 inches at each end, leaving the braid and insulation on balance of sample. One end of the bare copper should be fastened to a clamp on a shaft of the diameter given below, and a weight as given below attached to the other end of the bare copper wire. The shaft shall then be revolved 10 times in 10 seconds, wrapping the sample in a close wind around the shaft. With the tension left on the sample, it should then be immersed in water for 24 hours, immediately after which it should, while still immersed, be subjected to 1,500 volts alternating current for 1 minute.

	B. & S.	Mils.	Lbs.
Diam. of shaft	No. 14 wire	170	weight 10
" "	12 "	190	" 10
" "	10 "	275	" 12
" "	8 "	375	" 15

2. Any rubber compound used as insulation shall be tested for permanent set, elongation and tensile strength as follows:

New wire.—A test piece taken from the wire, having insulation less than 5-64 inch thick, shall have marks placed 2 inches apart, and shall be stretched longitudinally at the rate of 12 inches per minute till the marks are 5 inches apart, and then be immediately released and a measurement taken 30 seconds thereafter, when the distance between the marks must not exceed 2.5 inches. The test piece shall then be

stretched until the marks are 6 inches apart before rupture. The tensile strength shall not be less than 400 lbs. per square inch, calculated upon the original cross section of the test piece before stretching. Test pieces from wire having insulation 5-64 inch thick or over shall be tested in a similar manner, but shall be stretched to 4 inches instead of 5 inches, and must not break until stretched 5 inches, and shall have a tensile strength of 400 lbs. per square inch.

Wire tested at any time up to one year from date of manufacture or to time of installation.—A test piece taken from wire having insulation less than 5-64 inch thick shall have marks placed 2 inches apart, and shall be stretched longitudinally at the rate of 12 inches per minute till the marks are 4 inches apart, and then be immediately released and a measurement taken 30 seconds thereafter, when the distance between the marks must not exceed 2.5 inches. Test pieces from wire having insulation 5-64 inch or over shall be stretched to 3½ inches instead of four inches.

h. All of the above insulations must be protected by a substantial braided covering, properly saturated with a preservative compound. This covering must be sufficiently strong to withstand all the abrasions likely to be met with in practice, and all wire must substantially conform to approved samples submitted by the manufacturer.

j. Lead covered wires and cables for interior work only. (Type letters R. S. L.) Except for armored cables. (Type letter A. C.) The thickness of insulating wall of lead sheath rubber insulated conductors, 0-600 volts, to be the same as for braided cables, all cables to be covered with a compound filled tape or braid over the insulating wall. There shall be a tape or braid over the bunched conductors except where the conductors are laid parallel and not twisted. If braid is used, it shall be of such a thickness as to increase the required diameter over the insulating wall by at least 1-32 inch, and must comply with the requirements for braid on braided conductors.

If tape is used it must not be less than 1-64 inch thick and must lap at least ¼ of its width. The width of the tape used should not exceed twice the square root of the diameter of the conductor over the insulating wall; i. e., 500,000 c. m. 3-32 rubber, tape not to exceed 2 inches in width; No. 14, 3-64 rubber, tape should not exceed 0.8 inch in width.

The lead on single conductor cables, 0-600 volt class, sizes 2 B. & S. and smaller, both solid and stranded, to be not less than the thickness of rubber called for by paragraph e of this section. On larger sizes the thickness of lead to be not less than the thickness of insulating wall called for, less 1-64 inch; i. e., thickness of lead on No. 2, 1-16 inch; on 1,000,000 c. m., 3-32 inch. On multiple conductor cables, thickness of lead to be that called for by single conductor, having same diameter over the insulation as the multiple conductor cable has over the bunched insulated conductors.

Rubber insulated and lead sheathed cables, 601 to 7,000 volt classes inclusive (Type letters R. S. L. 15, R. S. L. 25, etc.) shall comply with paragraph f of this section and the lead sheath shall be the same as called for in 0-600 volt class, having same diameter under the lead as 601-7,000 volt conductor. The electrical test on finished cables shall be the same as on braided cables.

§ 551. Slow-burning weatherproof wire. (Type letters, S. B. W.)

a. The insulation must consist of two coatings, one to be fireproof in character and the other to be weatherproof. The fireproof coating must be on the outside and must comprise about 6-10 of the total thickness of the wall. The completed covering must be of a thickness not less than that given in the following table:—

B. & S. Gage.	Thickness.
14 to 8	3-64 inch.
7 to 2	1-16 "
1 to 0000	5-64 "
Circular Mils.	
250,000 to 500,000	3-32 "
500,000 to 1,000,000	7-64 "
Over 1,000,000	1-8 "

Measurements of insulating wall are to be made at the thinnest portion.

b. The fireproof coating shall be of the same kind as that required for slow-burning wire, and must be finished with a hard, smooth surface.

c. The weatherproof coating shall consist of a stout braid, applied and treated as required for weatherproof wire.

§ 552. Slow-burning wire. (Type letters, S. B.)

a. The insulation must consist of 3 braids of cotton or other thread, all the interstices of which must be filled with the fireproofing compound or with material having equivalent resisting and insulating properties. The outer braid must be specially designed to withstand abrasion, and its surface must be finished smooth and hard. The compound covering must be of a thickness not less than given in the table in § 551a of this chapter.

§ 553. Weatherproof wire. (Type letters, W. P.)

a. The insulating covering shall consist of at least 3 braids, all of which must be thoroughly saturated with a dense moisture-proof compound, applied in such a manner as to drive any atmospheric moisture from the cotton braiding, thereby securing a covering to a great degree waterproof and of high insulating power. This compound must not drip at 160 degrees Fahrenheit (71 degrees Centigrade). The thickness of insulation must not be less than that given in the table in § 551a of this chapter, and the outer surface must be thoroughly slicked down.

§ 554. Flexible Cords.

a. Cords for pendant lamps and for portable use, including elevator, lighting and control cables, and theater stage and border cable, must be made of copper conductors, each built up from wires not larger than No. 26, or smaller than No. 36 B. & S. gage. Each conductor must have a carrying capacity not less than that of a No. 18 B. & S. gage wire, and must be covered by an approved insulation and protected from mechanical injury according to the specifications of paragraph c of this section, for the several types of cord or cable. Each conductor must be covered with a tight, close wind of fine cotton, or some other approved method must be employed to prevent a broken strand puncturing the insulation, and must comply with the requirements of § 549 of this chapter.

b. The insulating covering on each conductor must be of a rubber compound, homogeneous in character, and must comply with § 55, c and g of this chapter and must have a thickness of wall not less than that given in the following table:—

B. & S. gage.	Thickness in inches.
18 and 16	1-32
14	3-64

For exception for special reinforced cord (Type letters P. S.) see § 554 of this chapter.

The completed cord shall be subject to a 1 minute test between conductors of 1,000 volts for 1-64 inch insulation, 2,000 volts for 1-32 inch insulation and 2,500 volts for 3-64 inch insulation.

The insulating coverings in the above tests shall be sufficient to resist puncture or breakdown. The source of electro-motive force shall be the same as that specified in § 550 c of this chapter.

c. Cords of the several types must comply with the specifications of the following table with respect to their outer protective coverings and must comply with the special rules indicated in the last column of the table.

Use.	Type letter.	Trade name.	Braid on each conductor.	Reinforcement or filler.	Outer cover.	For additional rules in this chapter see
Pendants—dry places	C	Lamp cord	Glazed cotton or silk			§ 554d
Pendants—damp places	CB	Brewery cord	Cotton Wp.			§ 554d
	CC	Canvasite cord	Cotton Wp.		Cotton Wp.	§ 554d
Portable—dry places	P	Reinforced cord	Cotton	Rubber jacket.	Glazed cotton or silk	....
	PO	Parallel cord	Cotton		Glazed cotton or silk	§ 554e
	PS	Special reinf. cord	Cotton	Rubber jacket.	Glazed cotton or silk	§ 554f
	CA	Armored cord	Cotton		Armor	§ 554g
	PA	Armored reinf. cord	Cotton	Rubber jacket.	Glazed cotton and armor	§ 554g
Portable—damp places	PWp	Reinforced cord Wp.	Cotton	Rubber jacket.	Cotton Wp.	....
	PkWp	Packinghouse cord	Cotton	Filler	2 Cotton, both Wp.	§ 554h
	PAWp	Armored reinf. cord Wp.	Cotton	Rubber jacket.	Cotton Wp. and armor	§ 554g
Theatre stages	T	Stage cable	Cotton Wp.	Filler	2 Cotton, both Wp.	§ 554i
Theatre borders	B	Border light cable	Cotton Wp.		2 Cotton, both Wp.	§ 554j
Elevator lighting and control	E	Elevator cable	Cotton	Rubber jacket. and or	1 or more cotton, both Wp. 3 Cotton, outer one Wp.	§ 554k ....

d. (Type letters C, CB and CC.) In these classes are to be included all flexible cords, which under usual conditions hang freely, and which are not likely to be moved sufficiently to come in contact with surrounding objects.

It should be noted that pendant lamps provided with long cords so that they can be carried about or hung over nails, or on machinery, etc., are not included in this class, even though they are usually allowed to hang freely in air.

e. (Type letters PO.) These cords are for use only in offices, dwellings or similar places, where cord is not liable to rough usage and where appearance is an essential feature.

The conductors may be either laid parallel or twisted together.

f. (Type letters PS.) These cords are for use only in offices, dwellings or similar places where cord is not liable to rough usage and where appearance is an essential feature.

These cords may be made only with conductors of No. 18 or No. 16 B. & S. gage and may have the insulating covering on each conductor not less than 1-64 inch in thickness.

g. (Type letters CA, PA, PAWp.) For the construction of the armor see § 557 of this chapter.

h. (Type letters PkWp.) In the outer cover tape may be substituted for the inner braid.

i. (Type letter T.) Theatre cables shall consist of not more than 3 conductors, each of a capacity not exceeding No. 4 B. & S. gage. These conductors must be twisted together and a filler of approved material must be used to make the cable round and to act as a cushion.

In the outer covering tape may be substituted for the inner braid.

The insulating covering on each conductor of No. 6 to No. 4 B. & S. gage must be not less than 1-16 inch in thickness.

The completed cable must be of such a flexible nature as to be readily handled and, when laid on the floor, must align itself to the floor level.

j. (Type letter B.) In the outer cover tape may be substituted for the inner braid.

The conductors must be cabled together.

k. (Type letter E.) Conductors for elevator lighting cables shall not be smaller than No. 14 B. & S. gage and for elevator control cables not smaller than No. 16 B. & S. gage.

In the outer cover tape may be substituted for one of the inner braids.

l. For portable heating apparatus.—(Type letter H.) Applies to all smoothing and sad irons and to any other heating device requiring over 250 watts. The flexible conductors must be made up as follows:

L. Conductors must comply with paragraph a of this section, or may be of braided copper. If braided, each wire to be not larger than No. 30 or smaller than No. 36 B. & S. gage, except for conductors having a greater carrying capacity than No. 12 B. & S. gage, when each wire may be as large as No. 28 B. & S. gage.

2. An insulating covering of rubber or other approved material not less than 1-64 inch in thickness.

3. A braided covering not less than 1-32 inch thick, composed of long fibre asbestos and having not over 10 per cent. of carbon by weight.

4. An outer reinforcing covering not less than 1-64 inch thick, especially designed to resist abrasion, must enclose either all the conductors as a whole or each conductor separately.

5. The completed cord shall be subjected to a 1 minute test between conductors of 1,500 volts, and must resist puncture or breakdown when so tested, the source of electro-motive force to be the same as that specified in § 550 of this chapter.

g. Elevator lighting and control cables (Type letter E).—Must comply with the requirements for theatre cable as regards insulation proper and the construction and covering of the individual conductors, except that none of these conductors shall be smaller than No. 14 B. & S. gage for elevator lighting cables, or No. 16 for elevator control cables. The outer covering shall consist either of 3 braids or of an extra layer of rubber and one or more outer braids. All braids must be properly treated with a preservative compound.

§ 555. Fixture wire.

a. Fixtures may be wired with approved flexible cord (see § 554, a to c, of this chapter) or with approved rubber covered wire No. 14 B. & S. gage, or larger (see § 550 of this chapter).

In wiring certain designs of show-case fixtures, ceiling bulls-eyes and similar appliances in which the wiring is exposed to temperatures in excess of 120 degrees Fahrenheit (49 degrees Centigrade), from the heat of the lamps, slow-burning wire must be used (see § 552 of this chapter). All such forms of fixtures must be submitted for examination, test and approval before being introduced for use.

For other wires for use in fixtures the following rules apply (Type letters F-64 and F-32):

b. Copper may be made of solid or stranded conductors, with no strands smaller than No. 30 B. & S. gage, and must have a carrying capacity not less than that of a No. 18 B. & S. gage wire.

c. Solid conductors must be thoroughly tinned. If a stranded conductor is used, it must be covered by a tight, close wind of fine cotton, or some other approved method must be employed to prevent a broken strand puncturing the insulation, and must comply with the requirements of § 449 of this chapter.

d. The insulation on each conductor must consist of a rubber compound, homogenous in character, adhering to the conductor or to the separator, if one is used, and not less than 1-64 inch in thickness for No. 18 B. & S. gage wire and not less than 1-32 inch for No. 16 B. & S. gage.

e. The insulation must be protected with a covering or braid at least 1-64 inch in thickness, sufficiently tenacious to withstand the abrasion of being pulled into the fixture, and sufficiently elastic to permit the wire to be bent around a cylinder of twice the diameter of the wire without injury to the braid.

f. Fixture wire must successfully withstand the tests specified in § 550, c and g, of this chapter.

§ 556. Conduit wire. (Type letters R. D.)

a. Single wire for conduits must comply with the requirements of § 550 of this chapter (except that tape may be substituted for braid), and in addition there must be a second outer fibrous covering at least 1-32 inch in thickness for wires larger than No. 10 B. & S. gage and at least 1-64 inch in thickness for wires No. 10 B. & S. gage or less in size; this fibrous covering to be sufficiently tenacious to withstand the abrasion of being hauled through the metal conduit.

b. For twin or duplex wires in conduit, each conductor must comply with the requirements of § 550 of this chapter (except that tape may be substituted for braid), and in addition there must be a second outer fibrous covering, at least 1-32 of an inch in thickness for wires larger than No. 10 B. & S. gage and at least 1-64 of an inch in thickness for wires No. 10 B. & S. gage or less in size; this fibrous covering to be sufficiently tenacious to withstand the abrasion of being hauled through thc metal conduit.

c. For concentric wire, the inner conductor must comply with the requirements of § 550 of this chapter (except that tape may be substituted for braid), and there must be outside the outer conductor the same insulation as on the inner, the whole to be covered with a substantial braid, which must be at least 1-32 of an inch in thickness and sufficiently tenacious to withstand the abrasion of being hauled through the metal conduit.

d. The braids or tapes called for in paragraphs a, b and c of this section must be properly saturated with a preservative compound.

§ 557. Armored cable and cord. (Type letters AC, CA, PA and PAWp.)

a. The armored cable or cord must be so flexible that it may be bent in a curve, the inner edge of which has a radius equal to 4 times the outside diameter of the armor, without injury to the cable or cord contained therein, and without opening up the arm or at any point sufficiently to expose the cable or cord.

The armored cable or cord must be of such design that after a 3-foot sample has been subjected to a tension of 100 pounds for 1 minute the armor will not be permanently elongated more than 3 inches, and after a 3-foot sample with conductor removed has been subjected to a tension of 150 pounds for 1 minute the armor will not be opened up at any point.

Strips, if used in forming the armor, must have a thickness at least as great as is given in the following table. For armors of other forms an equivalent wall construction must be provided.

Thickness of strip	Type letter of wire.	Size of conductors B and S gage. Single cond. cable.	Double cond. cable.	Triple cond. cable.	Test. voltage.
Armored cord—					
.025	C	.....	18 16 14	.....	500
.025	P or PWp	.....	18 16	.....	
.034	P or PWp	.....	14	.....	
Armored cable—					
.025	RD	14, 12, 10, 8	.....	.....	1000
	RSL	14, 12, 10, 8	.....	.....	
.034	RD	6, 4, 2,	14, 12, 10	14, 12, 10	1000
	RSL	6, 4	14, 12	14	
.040	RD	1	8, 6, 4	8, 6	1000
	RSL	2, 1	10, 8, 6	12, 10, 8	

The weight of the single strip armor, if of steel, must be not less than 87 per cent. of the weight of a solid-walled steel tube of the same internal diameter and of a wall thickness equal to twice the thickness of the strip. The weight of double strip armour must be at least 10 per cent. greater than that of single strip. For other types of armor an equivalent construction must be provided.

b. If of steel, the metal of armor must be thoroughly galvanized or coated with an approved rust preventive.

The internal diameter of the armor must be such that it will not be materially embedded in the cable or cord coverings. It must not be possible to withdraw the cable from the armor of a 15-foot sample of armored cable by the application of a force of 90 pounds, or from the armor of a 10-foot sample of armored cord by the application of a force of 25 pounds. Interior surfaces of the armor must be free from burrs or sharp edges which might cause abrasion of the cable or cord coverings.

c. The cable in the armor must have an insulating covering as required by § 550j or § 556 of this chapter, excepting that the lead covering may be only 1-32 inch thick. If multiple conductor cable (not lead covered) is used the conductors must be twisted together. The cord in the armor must have an insulating covering as required by § 554 of this chapter.

d. Every coil of completed armored cable or cord must be tested by the application of an alternating current voltage, derived from apparatus of not less than 1,500 watts capacity, the test voltages to be those given in the table of paragraph a of this section. Tests to be made between each conductor and every conductor comprising the cable or cord and between the several conductors and the armor.

e. There must be a distinctive marker the entire length, so that the armored cable or cord may be readily identified in the field. Coils of armored cable or cord must also be plainly tagged or marked as follows:

1. The maximum voltage at which the wire is designed to be used.
2. The words "National Electrical Code Standard."
3. Name or trade mark of the manufacturing company.
4. Month and year when manufactured.
5. The proper type letters for the particular style of material as given for each type in § 554 and § 557 of this chapter.

§ 558. Metal conduits.

a. Each length of conduit must have the maker's name or initials stamped in the metal or attached thereto in a satisfactory manner, so that inspectors can readily see the same.

1. Rigid conduit.

b. The tube used in the manufacture of rigid conduit must be of mild steel; and must be of sufficiently true, circular section to admit of cutting true, clean threads; it must be very closely the same in wall thickness at all points. Welds must be thoroughly well made.

c. The tube must be thoroughly cleaned to remove all scale and rust from both the inside and the outside surfaces by some process, mechanical or otherwise, which will permit the protecting coating to take a smooth finish and which will not reduce the weight of the tube sufficiently to cause the finished rigid conduit to weigh less than is given in § 558i of this chapter. The surface of the tube intended for enameled conduit must be thoroughly washed or otherwise treated to remove all acid left by the pickling solutions, if they are used as a part of the cleaning process.

d. All surfaces of the tube must be protected against corrosion by one of the methods prescribed in sub-divisions 2 and 3 of this section or by some other approved methods.

2. Enameled conduit.

e. The enamel coating on either the inside or the outside surface of the finished conduit must not soften at ordinary temperatures; it must have an even and smooth appearance and must be of a uniform quality at all points of the length of the tube. It must be of sufficient weight and toughness to resist smashing or flaking and must be of sufficient elasticity to prevent its cracking or flaking at any time up to 1 year from month of manufacture when ½-inch conduit is bent in a curve, the inner edge of which has a radius of 3½ inches. The enamel coating must not be seriously affected by soaking at 70 degrees Fahrenheit for 24 hours in any of the following aqueous solutions:

1. Sulphuric acid of 1.3 specific gravity containing 40 per cent. by weight of anhydrous sulphuric acid.
2. Commercial strong hydrochloric acid containing 20 per cent. by weight of anhydrous hydrochloric acid.
3. Acetic acid containing 20 per cent. by weight of anhydrous acetic acid.
4. Saturated solution of carbonate of soda, containing 20 per cent. by weight of anhydrous carbonate of soda.

3. Conduit with metallic coatings.

f. The metallic coating on either the inside or the outside surface of the finished conduit must not soften at ordinary temperatures, and must be of uniform quality at all points of the length of the tube. It must be of sufficient elasticity to prevent its cracking or flaking at any time up to one year from the month of manufacture when ½-inch conduit is bent in a curve, the inner edge of which has a radius of 3½ inches.

All metallic protective coatings on either interior or exterior surfaces must be of an approved weight and quality to afford protection against corrosion. If the interior surface is not given a metallic protective coating it must be coated with an approved enamel.

g. Elbows, bends and similar fittings must be made of full-weight material, such as is specified for the conduit proper, and must be treated, coated, threaded, etc., in every way corresponding to the specifications for conduit so far as they apply.

h. Threads upon conduits, couplings, elbows and bends must be full and clean cut. Their pitch and form must conform to the Briggs' standard for pipe threads. The taper of threads on conduit must not exceed ¾ inch per foot. The perfect thread must be tapered for its entire length. Couplings must be tapped straight. If threads are cut after the protective coatings are applied they must be treated to prevent corrosion taking place before the conduit is actually installed. The number of threads and the length of the threaded portion must be approximately in accordance with the following table:

Electrical trade size. inches.	Number of threads per inch.	Length of perfect thread. inches.	Total length of thread. inches.
1-4	18	0.29	0.57
3-8	18	0.30	0.57
1-2	14	0.39	0.75
3-4	14	0.40	0.76
1	11 1-2	0.51	0.94
1 1-4	11 1-2	0.53	0.97
1 1-2	11 1-2	0.55	0.98
2	11 1-2	0.58	1.12
2 1-2	8	0.89	1.51
3	8	0.95	1.57
3 1-2	8	1.00	1.62
4	8	1.05	1.67
4 1-2	8	1.10	1.72
5	8	1.16	1.78
6	8	1.26	1.89

i. The finished conduit as shipped must be in 10-foot lengths, with each end reamed and threaded. For each length at least 1 coupling must be furnished. The finished conduit with coupling must not weigh less than is given in the following table. All finished conduit must be inspected visually, both inside and out, for poor coatings, hard scale or other similar defects. It must have an approved interior coating of a character and appearance which will readily distinguish it from ordinary commercial pipe commonly used for other than electrical purposes.

Electrical trade size, inches.	Minimum weight of finished conduit ten, 10 foot lengths with couplings.
1-4	38.5 pounds
3-8	51.5 pounds
1-2	79.0 pounds
3-4	105 pounds
1	153 pounds
1 1-4	201 pounds
1 1-2	249 pounds
2	334 pounds
2 1-2	527 pounds
3	690 pounds
3 1-2	831 pounds
4	982 pounds
4 1-2	1150 pounds
5	1344 pounds
6	1770 pounds

4. Flexible conduit.

j. Flexible conduit must be so flexible that the conduit may be bent in a curve, the inner edge of which has a redius equal to that specified in the following table, without opening up the tube at any point.

k. Flexible conduit must be of such design that after a 3-foot sample has been subjected to a tension of 200 lbs. for 1 minute, the conduit will not be opened up at any point.

l. For steel conduits the internal diameter, the thickness of the strip and the weight of the finished conduit must be not less than the values given in the following table. For flexible conduit of other than the strip type an equivalent construction must be provided.

Electrical trade size, inches.	Internal diameter, inches.	Thickness of strip, inches.	Weight in pounds per 100 feet. Single strip.	Weight in pounds per 100 feet. Double strip.	Radius of curvatures, inches.
5-16	5-16	.025	17 3-4	20 1-2	2 1-4
3-8	3-8	.034	29	33 1-2	2 1-2
1-2	5-8	.040	54	62	3 1-2
3-4	13-16	.040	68	78 1-2	4 1-2
1	1	.055	108	129 1-2	5
1 1-4	1 1-4	.055	132	158	5 1-2
1 1-2	1 1-2	.060	171	205	6
2	2	.060	224	269	8
2 1-2	2 1-2	.060	277	332	10 1-2

m. If of steel, the metal of the flexible conduit must be thoroughly galvanized or coated with an approved rust preventive. Interior surfaces of the conduit must be free from burrs or sharp edges which might cause abrasion of the wire coverings.

n. Flexible conduit must have a distinctive marking its entire length so that it may be readily identified in the field. Coils must also be plainly tagged or marked with the name or trade mark of the manufacturing company.

§ 559. Outlet, junction and flush switch boxes.

a. Boxes must be of pressed steel having wall thickness of not less than .078 inch (No. 14 U. S. metal gage), or of cast metal having wall thickness not less than 1-8 inch. Junction boxes of larger sizes must comply with requirements of § 570 of this chapter, but must in all cases be of metal.

b. Boxes must be well galvanized, enameled or otherwise properly coated, inside and out, to prevent oxidation.

c. Boxes must be so made that all openings not in use will be effectively closed by metal which will afford protection substantially equivalent to the walls of the box.

Fittings which are designed for bringing conductors from metal conduits to exposed wiring must be provided within non-absorptive, non-combustible, insulating bushings which, except with flexible cord, must separately insulate each conductor.

d. Boxes must be plainly marked, where the marking may readily be seen when installed, with the name or trade mark of the manufacturer.

e. Boxes must, in case of combination gas and electric outlets, be so arranged that connection with gas pipe at outlet may be made by means of an approved device. Fixture studs, where not a part of the box, must be made of malleable iron or other approved material. Boxes must be arranged to secure in position the conduit or flexible tubing protecting the wire.

f. Switch and outlet boxes must be so arranged that they can be securely fastened in place independently of the support afforded by the conduit piping, except that when entirely exposed, approved boxes, which are threaded so as to be firmly supported by screwing on to the conduit, may be used.

g. Switch and receptacle boxes must completely enclose the switch or receptacle on sides and back, and must provide a thoroughly substantial support for it. The retaining screws for the box must not be used to secure the switch in position. Boxes for floor outlets shall be designed to completely enclose the receptacle and attachment plugs, if any, to protect them from mechanical injury and to exclude moisture.

h. Covers for outlet boxes if made of metal must be equal in thickness to that specified for the walls of the box, or must be of metal lined with an insulating material

not less than 1-32 inch in thickness, firmly and permanently secured to the metal. Covers may also be made of porcelain or other approved material, provided they are of such form and thickness as to afford suitable protection and strength.

§ 560. Metal moulding.

a.

b. The installation of wooden moulding is prohibited.

c. Each length of metal moulding must have maker's name or trade mark stamped in the metal, or in some manner permanently attached thereto, in order that it may be readily identified in the field.

d. Metal moulding must be constructed of iron or steel with backing at least .050 inch in thickness, and with capping not less than .040 inch in thickness, and so constructed that when in place the raceway will be entirely closed; must be thoroughly galvanized or coated with an approved rust preventative both inside and out to prevent oxidation.

e. Elbows, couplings and all other similar fittings must be constructed of at least the same thickness and quality of metal as the moulding itself, and so designed that they will both electrically and mechanically secure the different sections together and maintain the continuity of the raceway. The interior surfaces must be free from burrs or sharp corners which might cause abrasion of the wire coverings.

f. Metal moulding must at all outlets be so arranged that the conductors cannot come in contact with the edges of the metal, either of capping or backing. Specially designed fittings which will interpose substantial barriers between conductors and the edges of metal are recommended.

g. When backing is secured in position by screws or bolts from the inside of the raceway, depressions must be provided to render the heads of the fastenings flush with the moulding.

h. Metal mouldings must be used for exposed work only and must be so constructed as to form an open raceway to be closed by the capping or cover after the wires are laid in.

§ 561. Tubes and bushings.

a. Tubes and bushings must be made straight and free from checks or rough projections, with ends smooth and rounded to facilitate the drawing in of the wire and prevent abrasion of its covering.

b. Tubes and bushings must be made of non-combustible insulating material, which, when broken and submerged for 100 hours in pure water at 70 degrees Fahrenheit (21 degrees Centigrade), will not absorb over ½ of one per cent. of its weight.

c. Tubes and bushings must have the name, initials or trade-mark of the manufacturer stamped in the ware.

d. Dimensions of walls and heads of tubes and bushings must be at least as great as those given in the following table:

Diameter of hole.	External diameter.	Thickness of wall.	External diameter of head.	Length of head.
5-16 in.	9-16 in.	1-8 in.	13-16 in.	1-2 in.
3-8	11-16	5-32	15-16	1-2
1-2	13-16	5-32	1 3-16	1-2
5-8	15-16	5-32	1 5-16	1-2
3-4	1 3-16	7-32	1 11-16	5-8
1	1 7-16	7-32	1 15-16	5-8
1 1-4	1 13-16	9-32	2 5-16	5-8
1 1-2	2 3-16	11-32	2 11-16	3-4
1 3-4	2 9-16	13-32	3 1-16	3-4
2	2 15-16	15-32	3 7-16	3-4
2 1-4	3 5-16	17-32	3 13-16	1
2 1-2	3 11-16	19-32	4 3-16	1

An allowance of 1-64 inch for variation in manufacturing will be permitted, except in the thickness of the wall.

§ 562. Cleats.

a. Cleats must hold the wire firmly in place without injury to its covering.

b. Bearing points on the surface of cleats must be made by ridges or rings about the holes for supporting screws, in order to avoid cracking and breaking when screwed tight.

c. Cleats must be made of non-combustible insulating material, which, when broken and submerged for 100 hours in pure water at 70 degrees Fahrenheit (21 degrees Centigrade), will not absorb over ½ of one per cent. of its weight.

d. Cleats must have the name, initials or trade-mark of the manufacturer stamped in the ware.

e. Cleats must conform to the spacings given in the following table:

Voltage, 0-300. Distance from wire to surface, ½ inch. Distance between wires, 2½ inches.

§ 563. Flexible tubing.

a. Flexible tubing must have a sufficiently smooth interior surface to allow the ready introduction of the wire.

b. Flexible tubing must be constructed of or treated with materials which will service as moisture repellents.

c. The tube must be so designed that it will withstand all the abrasion likely to be met with in practice.

d. The linings, if any, must not be removable in lengths of over 3 feet.

e. The ¼-inch tube must be so flexible that it will not crack or break when bent in a circle with 6-inch radius at 50 degrees Fahrenheit (10 degrees Centigrade), and the covering must be thoroughly saturated with a dense moisture-proof compound which will not slide at 150 degrees Fahrenheit (65 degrees Centigrade). Other sizes must be as well made.

f. Flexible tubing must not convey fire on the application of a flame from Bunsen burner to the exterior of the exterior of the tube when held in a vertical position.

g. Flexible tubing must be sufficiently tough and tenacious to withstand severe tension without injury; the interior diameter must not be diminished or the tube opened up at any point by the application of a reasonable stretching force.

h. Flexible tubing must not close to prevent the insertion of the wire after the tube has been kinked or flattened and straightened out.

i. Flexible tubing must have a distinctive marking the entire length of the tube, so that the tubing may be readily identified in the field.

§ 564. Knobs.

a. Split knobs must be constructed in two parts, a base and a cap, arranged to hold the wire firmly in place without injury to its covering. Sharp edges must be avoided. Solid knobs must be constructed with smooth groove, to contain wire.

b. Bearing points on the surface of knobs must be made by a ring or by ridges on the outside edge of the base, to provide for stability. At least ¼ inch surface separation must be maintained between the supporting screw or nail and the conductor, and the knob must be so constructed that the supporting screw or nail cannot come in contact with the conductor. For wires larger than No. 4 B. & S. gage, split knobs (or single wire cleats) must be so constructed as to require the use of 2 supporting screws.

c. Knobs must be made of non-combustible, insulating material, which, when broken, and submerged for 100 hours in pure water at 70 degrees Fahrenheit (21 degrees Centigrade) will not absorb over ½ of one per cent. of its weight.

d. Knobs must have the name, initials or trade-mark of the manufacturer stamped in the ware.

e. Knobs must be so constructed as to separate the wire at least 1 inch from the surface wired over, and also conform to the following minimum dimensions:

Sizes of wire, inclusive.	Size of base, inches. Circular knobs, diameter.	Square knobs or single wire cleats. Width.	Length.	Solid knobs, groove, inches. Depth.	Diameter.	Split knobs, thickness of cap, inches from top of wire groove.
14–10	1 1-8	3-4	1 3-4	3-16	1-4	3-8
8–4	1 1-2	7-8	2	5-16	5-16	5-8
2–00	2	1	2 1-4	7-16	5-8	5-8
000–300,000 c. m.	2 1-2	1 1-8	2 3-4	7-16	25-32	7-8
400,000–1,000,000 c. m.	3	1 3-8	3 3-4	5-8	1 1-4	1

§ 565. Switches.

1. General Rules.

a. Switches must, when used for service switches, indicate, on inspection, whether the current be "on" or "off."

b. Switches must, for constant-current systems, close the main circuit and disconnect the branch wires when turned "off"; must be so constructed that they shall be automatic in action, not stopping between points when started and must prevent an arc between the points under all circumstances. They must indicate whether the current be "on" or "off."

2. Knife switches.

c. Knife switches must be mounted on non-combustible, non-absorptive, insulating bases. Other materials than slate, marble or porcelain must be submitted for special examination before being used. Bases with an area of over 25 square inches must have at least 4 supporting screws. Holes for the supporting screws must be so located or countersunk that there will be at least ½ inch space measured over the surface, between the head of the screw or washer and the nearest live metal part, and in all cases when between parts of opposite polarity must be countersunk.

d. Pieces carrying the contact jaws and hinge clips must be secured to the base by at least 2 screws, or else made with a square shoulder, or provided with dowel pins, to prevent possible turnings, and the nuts or screw-heads on the under side of the base must be countersunk not less than ⅛ inch and covered with a waterproof compound which will not melt below 150 degrees Fahrenheit (65 degrees Centigrade).

e. Hinges of knife switches must not be used to carry current unless they are equipped with spring washers, held by lock-nuts or pins, or their equivalent, so arranged that a firm and secure connection will be maintained at all positions of the switch blades.

f. All switches must have ample metal for stiffness and to prevent rise in temperature of any part of over 50 degrees Fahrenheit (28 degrees Centigrade) at full load, the contacts being arranged so that a thoroughly good bearing at every point is obtained with contact surfaces advised for pure copper blades of about 1 square inch for each 75 amperes; the whole device must be mechanically well made throughout.

g. All cross-bars less than 3 inches in length must be made of insulating material. Bars of 3 inches and over, which are made of metal to insure greater mechanical strength, must be sufficiently separated from the jaws of the switch to prevent arcs following from the contacts to the bar on the opening of the switch under any circumstances. Metal bars should preferably be covered with insulating material. To prevent possible turning or twisting the cross-bar must be secured to each blade by 2 screws, or the joints made with square shoulders or provided with dowel-pins.

h. Switches for currents of over 30 amperes must be equipped with lugs, firmly screwed or bolted to the switch, and into which the conducting wires shall be soldered. For the smaller sized switches simple clamps can be employed, provided they are heavy enough to stand considerable hard usage.

i. Knife switches must operate successfully at 50 per cent. overload in amperes and 25 per cent. excess voltage, under the most severe conditions with which they are liable to meet in practice.

j. Knife switches must be plainly marked where the marking can be read when the switch is installed, with the name of the maker and the current and the voltage for which the switch is designed. Switches designed for 250 volts D. C. or 500 volts A. C. circuits, without fuses on the switch base, must be marked 250 V., D. C., 500 V., A. C. When 250-volt fuse terminals are mounted on the switch base, the marking of the switch must be 250 V., D. C. and A. C. When 600-volt fuse terminals are mounted on the switch base, the terminals must be spaced for 600-volt fuses and the switches marked 500 V., A. C. Triple pole switches designed with 125-volt spacings, between adjacent blades, must be marked 125 volts, and may be used on 3-wire D. C. or single phase systems having not more than 125 volts between adjacent wires and not more than 250 volts between the two outside wires. When designed with 250-volt spacings between adjacent blades triple pole switches must be marked 250 volts and may be used on 3-wire D. C. or single phase systems having not more than 250 volts between adjacent wires and not more than 500 volts between the two outside wires.

k. Spacings and dimensions must be at least as great as those given in the following tables:

Table 1. *For switchboards and panel boards;* not over 125 volts D. C. and A. C.:

	Width and thickness. Blades.	Clips and hinges.	Minimum separation of nearest metal parts of opposite polarity.	Minimum break. distance.
30 amp.	1-2x5-64 in.	1-2x3-64 in.	1 in.	3-4 in.
60 amp.			1 1-4 in.	1 in.

Table 2. *For individual switches;* not over 125 volts D. C. and A. C.:

	Inch.	Inch.	Inch.	Inch.
30 amp.	1-2x5-64	1-2x3-64	1 1-4	1
60 and 100 amp.			1 1-2	1 1-4
200 amp.			2 1-4	2
400 and 600 amp.			2 3-4	2 1-2
800 and 1000 amp.			3	2 3-4

A 300-ampere switch with the spacings of the 200-ampere switch above may be used on switchboards.

Table 3. *For all switches;* 250 volts only D. C. and A. C:

	Inch.	Inch.	Inch.	Inch.
30 amp.	1-2x5-64	1-2x3-64	1 3-4	1 1-2

Table 4. *For all switches;* not over 250 volts D. C. nor over 500 volts A. C.:

	Inch.	Inch.	Inch.	Inch.
30 amp.	5-8x1-8	5-8x1-16	2 1-4	2
60&100 "			2 1-4	2
200 "			2 1-2	2 1-4
400&600 "			2 3-4	2 1-2
800&1000 "			3	2 3-4

A 300-ampere switch with the spacings of the 200-ampere switch above may be used on switchboards. Cut-out terminals on switches for over 250 volts must be designed and spaced for 600-volt fuses.

Table 5. *For all switches;* not over 600 volts D. C. and A. C.:

	Inch.	Inch.	Inch.	Inch.
30 amp.	5-8x1-8	5-8x1-16	4	3 1-2
60 "			4	3 1-2
100 "			4 1-2	4

Auxiliary contacts of either a readily renewable or a quick-break type or the equivalent are recommended for D. C. switches, designed for over 250 volts, and must be provided on D. C. switches designed for use in breaking currents greater than 100 amperes at a voltage of over 250. For 3-wire direct-current and 3-wire single-phase systems the separation and break distances for plain 3-pole knife switches must not be less than those required in the above table for switches designed for the voltage between neutral and outside wires.

3. Snap switches.

1. Current-carrying parts must be mounted on non-combustible, non-absorptive, insulating bases, such as slate or porcelain, and the holes for supporting screws should be countersunk not less than ⅛ inch. There must in no case be less than 3/64 inch space between supporting screws and current-carrying parts.

Sub-bases of non-combustible, non-absorptive, insulating material, which will separate the wires at least ½ inch from the surface wired over, must be furnished with all snap switches used in exposed or moulding work.

not less than 1-32 inch in thickness, firmly and permanently secured to the metal. Covers may also be made of porcelain or other approved material, provided they are of such form and thickness as to afford suitable protection and strength.

§ 560. Metal moulding.

a.

b. The installation of wooden moulding is prohibited.

c. Each length of metal moulding must have maker's name or trade mark stamped in the metal, or in some manner permanently attached thereto, in order that it may be readily identified in the field.

d. Metal moulding must be constructed of iron or steel with backing at least .050 inch in thickness, and with capping not less than .040 inch in thickness, and so constructed that when in place the raceway will be entirely closed; must be thoroughly galvanized or coated with an approved rust preventative both inside and out to prevent oxidation.

e. Elbows, couplings and all other similar fittings must be constructed of at least the same thickness and quality of metal as the moulding itself, and so designed that they will both electrically and mechanically secure the different sections together and maintain the continuity of the raceway. The interior surfaces must be free from burrs or sharp corners which might cause abrasion of the wire coverings.

f. Metal moulding must at all outlets be so arranged that the conductors cannot come in contact with the edges of the metal, either of capping or backing. Specially designed fittings which will interpose substantial barriers between conductors and the edges of metal are recommended.

g. When backing is secured in position by screws or bolts from the inside of the raceway, depressions must be provided to render the heads of the fastenings flush with the moulding.

h. Metal mouldings must be used for exposed work only and must be so constructed as to form an open raceway to be closed by the capping or cover after the wires are laid in.

§ 561. Tubes and bushings.

a. Tubes and bushings must be made straight and free from checks or rough projections, with ends smooth and rounded to facilitate the drawing in of the wire and prevent abrasion of its covering.

b. Tubes and bushings must be made of non-combustible insulating material, which, when broken and submerged for 100 hours in pure water at 70 degrees Fahrenheit (21 degrees Centigrade), will not absorb over ½ of one per cent. of its weight.

c. Tubes and bushings must have the name, initials or trade-mark of the manufacturer stamped in the ware.

d. Dimensions of walls and heads of tubes and bushings must be at least as great as those given in the following table:

Diameter of hole.	External diameter.	Thickness of wall.	External diameter of head.	Length of head.
5-16 in.	9-16 in.	1-8 in.	13-16 in.	1-2 in.
3-8	11-16	5-32	15-16	1-2
1-2	13-16	5-32	1 3-16	1-2
5-8	15-16	5-32	1 5-16	1-2
3-4	1 3-16	7-32	1 11-16	5-8
1	1 7-16	7-32	1 15-16	5-8
1 1-4	1 13-16	9-32	2 5-16	5-8
1 1-2	2 3-16	11-32	2 11-16	3-4
1 3-4	2 9-16	13-32	3 1-16	3-4
2	2 15-16	15-32	3 7-16	3-4
2 1-4	3 5-16	17-32	3 13-16	1
2 1-2	3 11-16	19-32	4 3-16	1

An allowance of 1-64 inch for variation in manufacturing will be permitted, except in the thickness of the wall.

§ 562. Cleats.

a. Cleats must hold the wire firmly in place without injury to its covering.

b. Bearing points on the surface of cleats must be made by ridges or rings about the holes for supporting screws, in order to avoid cracking and breaking when screwed tight.

c. Cleats must be made of non-combustible insulating material, which, when broken and submerged for 100 hours in pure water at 70 degrees Fahrenheit (21 degrees Centigrade), will not absorb over ½ of one per cent. of its weight.

d. Cleats must have the name, initials or trade-mark of the manufacturer stamped in the ware.

e. Cleats must conform to the spacings given in the following table:

Voltage, 0-300. Distance from wire to surface, ½ inch. Distance between wires, 2½ inches.

§ 563. Flexible tubing.

a. Flexible tubing must have a sufficiently smooth interior surface to allow the ready introduction of the wire.

b. Flexible tubing must be constructed of or treated with materials which will service as moisture repellents.

c. The tube must be so designed that it will withstand all the abrasion likely to be met with in practice.

d. The linings, if any, must not be removable in lengths of over 3 feet.

e. The ¼-inch tube must be so flexible that it will not crack or break when bent in a circle with 6-inch radius at 50 degrees Fahrenheit (10 degrees Centigrade), and the covering must be thoroughly saturated with a dense moisture-proof compound which will not slide at 150 degrees Fahrenheit (65 degrees Centigrade). Other sizes must be as well made.

f. Flexible tubing must not convey fire on the application of a flame from Bunsen burner to the exterior of the exterior of the tube when held in a vertical position.

g. Flexible tubing must be sufficiently tough and tenacious to withstand severe tension without injury; the interior diameter must not be diminished or the tube opened up at any point by the application of a reasonable stretching force.

h. Flexible tubing must not close to prevent the insertion of the wire after the tube has been kinked or flattened and straightened out.

i. Flexible tubing must have a distinctive marking the entire length of the tube, so that the tubing may be readily identified in the field.

§ 564. Knobs.

a. Split knobs must be constructed in two parts, a base and a cap, arranged to hold the wire firmly in place without injury to its covering. Sharp edges must be avoided. Solid knobs must be constructed with smooth groove, to contain wire.

b. Bearing points on the surface of knobs must be made by a ring or by ridges on the outside edge of the base, to provide for stability. At least ¼ inch surface separation must be maintained between the supporting screw or nail and the conductor, and the knob must be so constructed that the supporting screw or nail cannot come in contact with the conductor. For wires larger than No. 4 B. & S. gage, split knobs (or single wire cleats) must be so constructed as to require the use of 2 supporting screws.

c. Knobs must be made of non-combustible, insulating material, which, when broken, and submerged for 100 hours in pure water at 70 degrees Fahrenheit (21 degrees Centigrade) will not absorb over ½ of one per cent. of its weight.

d. Knobs must have the name, initials or trade-mark of the manufacturer stamped in the ware.

e. Knobs must be so constructed as to separate the wire at least 1 inch from the surface wired over, and also conform to the following minimum dimensions:

Sizes of wire, inclusive.	Size of base, inches. Circular knobs, diameter.	Square knobs or single wire cleats. Width.	Length.	Solid knobs, groove, inches. Depth.	Diameter.	Split knobs, thickness of cap, inches from top of wire groove.
14-10	1 1-8	3-4	1 3-4	3-16	1-4	3-8
8-4	1 1-2	7-8	2	5-16	5-16	5-8
2-00	2	1	2 1-4	7-16	5-8	5-8
000-300,000 c. m.	2 1-2	1 1-8	2 3-4	7-16	25-32	7-8
400,000-1,000,000 c. m.	3	1 3-8	3 3-4	5-8	1 1-4	1

§ 565. Switches.

1. General Rules.

a. Switches must, when used for service switches, indicate, on inspection, whether the current be "on" or "off."

b. Switches must, for constant-current systems, close the main circuit and disconnect the branch wires when turned "off"; must be so constructed that they shall be automatic in action, not stopping between points when started and must prevent an arc between the points under all circumstances. They must indicate whether the current be "on" or "off."

2. Knife switches.

c. Knife switches must be mounted on non-combustible, non-absorptive, insulating bases. Other materials than slate, marble or porcelain must be submitted for special examination before being used. Bases with an area of over 25 square inches must have at least 4 supporting screws. Holes for the supporting screws must be so located or countersunk that there will be at least ½ inch space measured over the surface, between the head of the screw or washer and the nearest live metal part, and in all cases when between parts of opposite polarity must be countersunk.

d. Pieces carrying the contact jaws and hinge clips must be secured to the base by at least 2 screws, or else made with a square shoulder, or provided with dowel pins, to prevent possible turnings, and the nuts or screw-heads on the under side of the base must be countersunk not less than ⅛ inch and covered with a waterproof compound which will not melt below 150 degrees Fahrenheit (65 degrees Centigrade).

e. Hinges of knife switches must not be used to carry current unless they are equipped with spring washers, held by lock-nuts or pins, or their equivalent, so arranged that a firm and secure connection will be maintained at all positions of the switch blades.

f. All switches must have ample metal for stiffness and to prevent rise in temperature of any part of over 50 degrees Fahrenheit (28 degrees Centigrade) at full load, the contacts being arranged so that a thoroughly good bearing at every point is obtained with contact surfaces advised for pure copper blades of about 1 square inch for each 75 amperes; the whole device must be mechanically well made throughout.

g. All cross-bars less than 3 inches in length must be made of insulating material. Bars of 3 inches and over, which are made of metal to insure greater mechanical strength, must be sufficiently separated from the jaws of the switch to prevent arcs following from the contacts to the bar on the opening of the switch under any circumstances. Metal bars should preferably be covered with insulating material. To prevent possible turning or twisting the cross-bar must be secured to each blade by 2 screws, or the joints made with square shoulders or provided with dowel-pins.

h. Switches for currents of over 30 amperes must be equipped with lugs, firmly screwed or bolted to the switch, and into which the conducting wires shall be soldered. For the smaller sized switches simple clamps can be employed, provided they are heavy enough to stand considerable hard usage.

i. Knife switches must operate successfully at 50 per cent. overload in amperes and 25 per cent. excess voltage, under the most severe conditions with which they are liable to meet in practice.

j. Knife switches must be plainly marked where the marking can be read when the switch is installed, with the name of the maker and the current and the voltage for which the switch is designed. Switches designed for 250 volts D. C. or 500 volts A. C. circuits, without fuses on the switch base, must be marked 250 V., D. C., 500 V., A. C. When 250-volt fuse terminals are mounted on the switch base, the marking of the switch must be 250 V., D. C. and A. C. When 600-volt fuse terminals are mounted on the switch base, the terminals must be spaced for 600-volt fuses and the switches marked 500 V., A. C. Triple pole switches designed with 125-volt spacings, between adjacent blades, must be marked 125 volts, and may be used on 3-wire D. C. or single phase systems having not more than 125 volts between adjacent wires and not more than 250 volts between the two outside wires. When designed with 250-volt spacings between adjacent blades triple pole switches must be marked 250 volts and may be used on 3-wire D. C. or single phase systems having not more than 250 volts between adjacent wires and not more than 500 volts between the two outside wires.

k. Spacings and dimensions must be at least as great as those given in the following tables:

Table 1. *For switchboards and panel boards;* not over 125 volts D. C. and A. C.:

	Width and thickness. Blades.	Clips and hinges.	Minimum separation of nearest metal parts of opposite polarity.	Minimum break. distance.
30 amp.	1-2x5-64 in.	1-2x3-64 in.	1 in.	3-4 in.
60 amp.			1 1-4 in.	1 in.

Table 2. *For individual switches;* not over 125 volts D. C. and A. C.:

	Inch.	Inch.	Inch.	Inch.
30 amp.	1-2x5-64	1-2x3-64	1 1-4	1
60 and 100 amp.			1 1-2	1 1-4
200 amp.			2 1-4	2
400 and 600 amp.			2 3-4	2 1-2
800 and 1000 amp.			3	2 3-4

A 300-ampere switch with the spacings of the 200-ampere switch above may be used on switchboards.

Table 3. *For all switches;* 250 volts only D. C. and A. C:

	Inch.	Inch.	Inch.	Inch.
30 amp.	1-2x5-64	1-2x3-64	1 3-4	1 1-2

Table 4. *For all switches;* not over 250 volts D. C. nor over 500 volts A. C.:

	Inch.	Inch.	Inch.	Inch.
30 amp.	5-8x1-8	5-8x1-16	2 1-4	2
60&100 "			2 1-4	2
200 "			2 1-2	2 1-4
400&600 "			2 3-4	2 1-2
800&1000 "			3	2 3-4

A 300-ampere switch with the spacings of the 200-ampere switch above may be used on switchboards. Cut-out terminals on switches for over 250 volts must be designed and spaced for 600-volt fuses.

Table 5. *For all switches;* not over 600 volts D. C. and A. C.:

	Inch.	Inch.	Inch.	Inch.
30 amp.	5-8x1-8	5-8x1-16	4	3 1-2
60 "			4	3 1-2
100 "			4 1-2	4

Auxiliary contacts of either a readily renewable or a quick-break type or the equivalent are recommended for D. C. switches, designed for over 250 volts, and must be provided on D. C. switches designed for use in breaking currents greater than 100 amperes at a voltage of over 250. For 3-wire direct-current and 3-wire single-phase systems the separation and break distances for plain 3-pole knife switches must not be less than those required in the above table for switches designed for the voltage between neutral and outside wires.

3. Snap switches.

1. Current-carrying parts must be mounted on non-combustible, non-absorptive, insulating bases, such as slate or porcelain, and the holes for supporting screws should be countersunk not less than ⅛ inch. There must in no case be less than 3/64 inch space between supporting screws and current-carrying parts.

Sub-bases of non-combustible, non-absorptive, insulating material, which will separate the wires at least ½ inch from the surface wired over, must be furnished with all snap switches used in exposed or moulding work.

m. Pieces carrying contact jaws must be screwed to the base by at least 2 screws, or else made with a square shoulder, or provided with dowel-pins or otherwise arranged, to prevent possible turnings; and the nuts or screw heads on the under side of the base must be countersunk not less than ⅛ inch and covered with a waterproof compound which will not melt below 150 degrees Fahrenheit (65 degrees Centigrade).

n. All switches must have ample metal for stiffness and to prevent rise in temperature of any part of over 50 degrees Fahrenheit (28 degrees Centigrade) at full load. The whole device must be mechanically well made throughout.

o. Any material used for insulating current-carrying parts must retain its insulating and mechanical strength when subject to continued use, and must not soften at a temperature of 212 degrees Fahrenheit (100 degrees Centigrade).

p. Binding posts must be substantially made, and the screws must be of such size that the threads will not strip when set up tight. Switches with the set-screw form of contact will not be approved.

q. Covers made of conducting material, except face plates for flush switches, must be lined on sides and top with insulating, tough and tenacious material at least 1/32 inch in thickness, firmly secured so that it will not fall out with ordinary handling. The side lining must extend slightly beyond the lower edge of the cover.

r. The handle or button or any exposed parts must not be in electrical connection with the circuit.

s. Snap switches must "make" and "break" with a quick snap, and must not stop when motion has once been imparted by the button or handle. Snap switches of the spring break pattern, normally complying with the above requirements, but with movement of the contact carrier under control of the operator at any point in the operation of the device, must be considered in a class with switches of the regular knife blade pattern and conform to the specifications of paragraph k of this section. Snap switches must operate successfully at 50 per cent. overload in amperes and at 125 volt direct current, for all 125 volt or less switches, and at 250 volts direct current, for all 126 to 250 volt switches under the most severe conditions which they are liable to meet in practice. For switches rated higher than 10 amperes, this test shall be at 25 per cent. overload instead of 50 per cent. When slowly turned "on" and "off" at the rate not to exceed 10 times per minute, while carrying the rated current at rated voltage, snap switches must "make" and "break" the circuit 6,000 times before failing.

t. Snap switches must be plainly marked, where the marking may be readily seen after the device is installed, with the name or trade-mark of the maker and the current and voltage for which the switch is designed. On flush switches these markings may be placed on the sub-plate. On other types they must be placed on the front of the cap, cover or plate. Switches which indicate whether the current is "on" or "off" are recommended.

§ 566. Circuit breakers.

1. *Generally.* Circuit breakers for operation on circuits of 550 volts or less must be made to comply with the following specifications, except in those few cases where peculiar design allows the breaker to fulfill the general requirements in some other way, and where it can successfully withstand the test of paragraph d of this section. In such cases the breakers should be submitted for special examination and approval before being used.

2. *Details of Construction.* Circuit breakers must be mounted on non-combustible, non-absorptive, insulating bases, such as slate or marble. Bases with an area of over 25 square inches must have at least 4 supporting screws. Holes for the supporting screws must be so located or countersunk that there will be at least ½ inch space measured over the surface between the head of the screw or washer and the nearest live metal part, and in cases when between parts of opposite polarity must be countersunk.

b. Pieces carrying contact parts must be screwed to the base by at least 2 screws, or else made with a square shoulder, dowel pin, or equivalent device, to prevent possible turning, and the nuts or screw heads on the under side of the base of front-connected breakers must be countersunk not less than ⅛ inch, and covered with a waterproof compound which will not melt below 150 degrees Fahrenheit (65 degrees Centigrade). All breakers must be provided with easily accessible means of tripping them by hand without injury to the operator.

c. Circuit Breakers must successfully operate 3 times with 2-minute intervals intervening without incapacitating the breaker, the conditions of the testing current to be as given in the following table:

Current rating of breakers.	Per cent of voltage drop in test circuit with rated current flowing.	Minimum available capacity of supply system not including overload capac'y.
0 to 100 amp	2	1,000 amp.
101 to 300 amp	3	3,000 amp.
400 amp	4	4,000 amp.
500 amp	5	5,000 amp.

No filing of contacts or other repairing of the breaker to be made during the test. Multiple breakers must comply with above requirements whether the test is on all poles at once or on one pole individually.

d. Circuit breakers must successfully withstand 2,000 volts A. C. for 1 minute between live metal and ground, between poles in multi-polar breaker and between terminals with breaker open.

e. The maximum rise in temperature at rated current must not exceed 90 degrees Fahrenheit (50 degrees Centigrade) for coils, or 54 degrees Fahrenheit (30 degrees Centigrade) for other parts.

f. Circuit breakers must not have a plus or minus error greater than 10 per cent. at any point of its calibration.

b Metal work of automatic overload circuit breakers must be substantial in construction, and must have ample metal for stiffness. The contact parts shall be arranged so that thoroughly good bearings are obtained; the entire device must be mechanically well made throughout.

h. Must be plainly marked, where it will be visible when installed, with the name of the maker and the current and voltage for which the device is designed.

§ 567. Cut-outs.

1. *General rules.*

a. Cut-outs must be supported on bases of non-combustible, non-absorptive, insulating material.

b. Cut-outs must be of the enclosed type, when not arranged in approved cabinets, so as to obviate any danger of the melted fuse metal coming in contact with any substance which might be ignited thereby.

c. Cut-outs must operate successfully on short-circuits, under the most severe conditions with which they are liable to meet in practice at 25 per cent. above their rated voltage, and, for link fuse cut-outs, with fuses rated at 50 per cent. above the current for which the cut-out is designed, and for enclosed fuse cut-outs with the largest fuses for which the cut-out is designed.

d. Cut-outs must be marked, where the marking will be plainly visible when installed, with the name of the maker, and current and voltage for which the device is designed.

2. *Link fuse cut-outs.*

e. Link-fuse cut-outs must be mounted on bases made of strong, non-combustible, non-absorptive, insulating material. The design of the base must be such that, considering the material used, the base will withstand the most severe conditions liable to be met in practice. Bases with an area of over 25 square inches must have at least 4 supporting screws. Holes for supporting screws must be kept outside of the area included by the outside edges of the fuse-block terminals, and must be so located or countersunk that there will be at least ½ inch space, measured over the surface, between the head of the screw or washer and the nearest live metal part.

f. Nuts or screw heads on the under side of the base must be countersunk not less than ⅛ inch, and covered with a waterproof compound which will not melt below 150 degrees Fahrenheit (65 degrees Centigrade).

g. All fuse-block terminals must have ample metal for stiffness and to prevent rise in temperature of any part of over 50 degrees Fahrenheit (28 degrees Centigrade) at full load. Terminals, as far as practicable, should be made of compact form instead of being rolled out in thin strips; and sharp edges of thin projecting pieces, as on wing thumb nuts and the like, should be avoided. Thin metal, sharp edges and projecting pieces are much more likely to cause an arc to start than a more solid mass of metal. It is a good plan to round all corners of the terminals and to chamfer the edges.

h. Clamps for connecting the wires to the fuse-block terminals must be of solid, rugged construction, so as to insure a thoroughly good connection and to withstand considerable hard usage. For fuses rated at over 30 amperes, lugs firmly screwed or bolted to the terminals and into which the conducting wires are soldered must be used.

i. Link fuse cut-outs must operate successfully when blowing only 1 fuse at a time on short-circuits with fuses rated at 50 per cent. above and within a voltage 25 per cent. above the current and voltage for which the cut out is designed.

j. Spacings must be at least as great as those given in the following table, which applies only to plain, open-link fuses mounted on slate or marble bases. The spaces given are correct for fuse-blocks to be used on direct-current systems, and can therefore be safely followed in devices designed for alternating currents. If the copper fuse-tips overhang the edges of the fuse-block terminals, the spacing should be measured between the nearest edges of the tips.

	Minimum separation of nearest metal parts of opposite polarity.	Minimum break-distance.
Not Over 125 volts:		
10 amperes or less	3-4 inch	3-4 inch
11-100 amperes	1 inch	3-4 inch
101-300 amperes	1 inch	1 inch
301-1000 amperes	1 1-4 inch	1 1-4 inch
Not Over 250 Volts:		
10 amperes or less	1 1-2 inch	1 1-4 inch
11-100 amperes	1 3-4 inch	1 1-4 inch
101-300 amperes	2 inch	1 1-2 inch
301-1000 amperes	2 1-2 inch	2 inch

3. *Enclosed-fuse cut-outs—plug and cartridge type.*

k. The base must be made of non-combustible, non-absorptive, insulating material. Blocks with an area of over 25 square inches must have at least 4 supporting screws. Holes for supporting screws must be so located or countersunk that there will be at least ½ inch space, measured over the surface, between the screw-head or washer and the nearest live metal part, and in all cases when between parts of opposite polarity must be countersunk.

l. Nuts or screw-heads on the under side of the base must be countersunk at least ⅛ inch and covered with a waterproof compound which will not melt below 150 degrees Fahrenheit (65 degrees Centigrade).

m. Except for sealable service and meter cut-outs, terminals must be of either the Edison plug, spring clip or knife blade type, of approved design, to take the corresponding standard enclosed fuses. They must be secured to the base by 2 screws or the equivalent, so as to prevent them from turning, and must be so made as to secure a thoroughly good contact with the fuse. End stops must be provided to insure the proper location of the cartridge fuse in the cut-out.

n. Clamps for connecting wires to the terminals must be of a design which will insure a thoroughly good connection, and must be sufficiently strong and heavy to withstand considerable hard usage. For fuses rated to carry over 30 amperes, lugs firmly screwed or bolted to the terminals and into which the connecting wires shall be soldered must be used.

o. Enclosed-fuse cut-outs must be classified as regards both current and voltage as given in the following table, and must be so designed that the bases of one class cannot be used with fuses of another class rated for a higher current or voltage:

Standard plug of cartridge cut-outs.	
Not Over 250 Volts.	Not Over 600 Volts.
0- 30 amperes.	0- 30 amperes.
31- 60 "	31- 60 "
61-100 "	61-100 "
101-200 "	101-200 "
201-400 "	201-400 "
401-600 "	

Sealable service and meter cut-outs.	
Not Over 250 Volts.	Not Over 600 Volts.
0- 30 amperes.	0- 30 amperes.
31- 60 "	31- 60 "
61-100 "	61-100 "
101-200 "	101-200 "

p. Enclosed-fuse cut-outs must be of such a design that it will not be easy to form accidental short circuits across live metal parts of opposite polarity on the block or on the fuses in the block.

4. *Exceptions.* The foregoing requirements of this section shall not apply to rosettes, attachment plugs, car-lighting cut-outs and protective devices for signalling systems.

§ 568. Fuses.

1. *Link fuses.*

a. Terminals must have contact surfaces or tips of harder metal, having perfect electrical connections with the fusible part of the strip.

b. Link-fuses must be stamped with about 80 per cent. of the maximum current which they can carry indefinitely, thus allowing about 25 per cent. overload before the fuse melts.

c. Fuse terminals must be stamped with the maker's name or initials, or with some known trade-mark.

2. *Enclosed fuses—plug and cartridge type.*

d. The fuse casing must be sufficiently dust-tight so that lint and dust cannot collect around the fusible wire and become ignited when the fuse is blown.

The fusible wire must be attached to the terminals in such a way as to secure a thoroughly good connection and to make it difficult for it to be replaced when melted.

e. Enclosed fuses must be classified to correspond with the different classes of cut-out blocks, and must be so designed that it will be impossible to put any fuse of a given class into a cut-out block which is designed for a current or voltage lower than that of the class to which the fuse belongs.

f. The fuse terminals must be sufficiently heavy to insure mechanical strength and rigidity. The styles of terminals, except for use in sealable service and meter cut-outs, must be as follows:

Not over 250 volts—

- 0-30 amps. { A. Cartridge fuse (ferrule contact). B. Approved plugs or cartridge fuses in approved casings for Edison cut-outs not exceeding 125 volts, but including, in 3-wire 125-250 volt systems, with grounded neutral, 3-wire circuits and 2-wire 125-volt or 250-volt circuits.
- 31-60 " Cartridge fuse (ferrule contact) for use also in approved casings for large size Edison plug type 250-volt cut-outs.
- 61-100 " / 101-200 " / 201-400 " / 401-600 " } Cartridge fuse (knife blade contact).

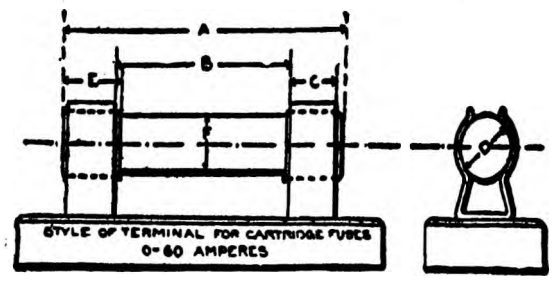
Not over 600 volts—

- 0-30 amps / 31-60 " } Cartridge fuse (ferrule contact).
- 61-100 " / 101-200 " / 201-400 " } Cartridge fuse (knife blade contact).

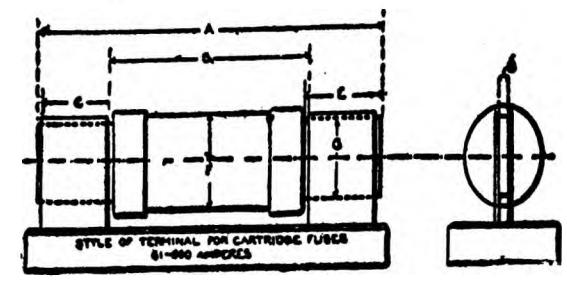
3. *Exceptions.* The requirements of subdivision 2 of this section shall not apply to fuses for rosettes, attachment plugs, car-lighting cut-outs and protective devices for signaling systems.

g. Cartridge enclosed fuses and corresponding cut-out blocks, except for sealable service and meter cut-outs, must conform to the dimensions given in the following table:

Table of Dimensions of the National Electrical Code Standard Cartridge Enclosed Fuse.



Form 1. Cartridge fuse—ferrule contact.



Form 2. Cartridge fuse—knife blade contact.

Voltage.	Rated capacity, amperes.		A. Length over terminals, inches.	B. Distance between contact clips, inches.	C. Width of contact clips, inches.	D. Diameter of ferrules or thickness of terminal blades, inches.	E. Minimum length of ferrules or of terminal blades outside of tube, inches.	F. Diameter of tube, inches.	G. Width of terminal blades, inches.		Rated capacity, amperes.
Not over 250.....	0-30	Form 1....	2	1	1-2	9-16	1-2	1-2	....	Form 1.....	0-30
	31-60	Form 1....	3	1 3-4	5-8	13-16	5-8	3-4	....	Form 1.....	31-60
	61-100	Form 2....	5 7-8	4	7-8	1-8	1	1	3-4	Form 2.....	61-100
	101-200	Form 2....	7 1-8	4 1-2	1 1-4	3-16	1 3-8	1 1-2	1 1-8	Form 2.....	101-200
	201-400	Form 2....	8 5-8	5	1 3-4	1-4	1 7-8	2	1 5-8	Form 2.....	201-400
	401-600	Form 2....	10 3-8	6	2 1-8	1-4	2 1-4	2 1-2	2	Form 2.....	401-600
Not over 600.....	0-30	Form 1....	5	4	1-2	13-16	1-2	3-4	....	Form 1.....	0-30
	31-60	Form 1....	5 1-2	4 1-4	5-8	1 1-16	5-8	1	....	Form 1.....	31-60
	61-100	Form 2....	7 7-8	6	7-8	1-8	1	1 1-4	3-4	Form 2.....	61-100
	101-200	Form 2....	9 5-8	7	1 1-4	3-16	1 3-8	1 3-4	1 1-8	Form 2.....	101-200
	201-400	Form 2....	11 5-8	8	1 3-4	1-4	1 7-8	2 1-2	1 5-8	Form 2.....	201-400

h. Fuses must be so constructed that with the surrounding atmosphere at a temperature of 75 degrees Fahrenheit (24 degrees Centrigrade) they will carry indefinitely a current 10 per cent. greater than that at which they are rated, and at a current 25 per cent. greater than the rating, they will open the circuit without reaching a temperature which will injure the fuse tube or terminals of the fuse block. With a current 50 per cent. greater than the rating and at room temperature qf 75 degrees Fahrenheit (24 degrees Centigrade), the fuses starting cold, must blow within the time specified below:

0- 30	amperes	1 minute.
31- 60	"	2 minutes.
61-100	"	4 "
101-200	"	6 "
201-400	"	12 "
401-600	"	15 "

i. Enclosed fuses must be marked, where the marking will be plainly visible, with the name or trade-mark of the maker, the voltage and current for which the fuse is designed, and the words "National Electrical Code Standard." Each fuse must have a label, the color of which must be green for 250-volt fuses and red for 600-volt fuses.

j. The temperature of the exterior of the fuse enclosure must not rise more than 125 degrees Fahrenheit (70 degrees Centigrade) above that of the surrounding air when the fuse is carrying the current for which it is rated.

k. Enclosed fuses must not hold an arc or throw out melted metal or sufficient flame to ignite easily inflammable material on or near the cut-out when only one fuse is blown at a time on a short circuit on a system of the voltage for which the fuse is rated.

The normal capacity of the system must be in excess of the load on it just previous to the test by at least 5 times the rated capacity of the fuse under test. The resistance of the circuit up to the cut-out terminals must be such that the impressed voltage at the terminals will be decreased 1 per cent. when a current of 100 amperes is passed between them.

§ 569. Panel boards.

a. The specifications for construction of switches and cut-outs (see § 565 and § 567 of this chapter) must be followed as far as they apply.

In the relative arrangement of fuses and switches, the fuses may be placed between the bus-bars and the switches, or between the switches and the circuits, except in the case of service switches, when § 423a of this chapter must be complied with. When the branch switches are between the fuses and bus-bars, the connections must be so arranged that the blades will be dead when the switches are open. When there are exposed live metal parts on the back of a board, or where the board will be subject to moisture, a space of at least ½ inch must be provided between such live metal parts and the cabinet in which board is mounted.

b. The following minimum distance between bare live metal parts (bus-bars, etc.) must be maintained:—

Between parts of opposite polarity, except at switches and link fuses, when mounted on the same surface	Between parts of same polarity.	
	When held free in air.	At link fuses.
Not over 125 volts. 3-4 inch.....	1-2 inch.	1-2 inch.
Not over 250 " 1 1-4 "	3-4 "	3-4 "
Not over 600 " 2 "	1 3-4 "	

Panel boards must be marked where the marking can be plainly seen when installed, with the name or trade-mark of the manufacturer and the maximum capacity in amperes and the voltage for which the board is designed.

§ 570. Cabinets.

a. Cabinets must in all cases be so constructed as to insure ample strength and rigidity and be dust-tight. When doors are of metal, and less than 0.109 inch (No. 12 U. S. sheet metal gage) in thickness and are not lined with insulating material, there must be a space of at least 1 inch between the door and an enclosed fuse or any live metal part. A space of at least 2 inches must be provided between open-link fuses and metal, metal-lined or glass paneled doors of cabinets. Except as above specified, there must be a space of at least ½ inch between the walls, back or door of any cabinet and any exposed live metal part. Cabinets must be deep enough to allow the door to be closed when 30 ampere branch circuit switches are in any position, and when larger single throw switches are thrown open as far as their construction and installation will permit. There must be a space of at least ½ inch between the walls, the gutter partition, if of metal, and back of any cabinet and the nearest exposed current-carrying part of devices mounted within the cabinet. Where branch and feeder circuit wires are led around the inside of the cabinet from terminals of panel boards, ample space must be provided within the cabinet so that it will not be necessary to run the wires upon the face of the panel-board. This space or gutter must be partitioned off from the panel board face by a barrier extending from the base of the panel-board to the front of the cabinet and firmly secured in position. These barriers if of metal must be of a thickness at least that of the walls of the box and must have bushed holes for wires. If barriers are of slate or marble they must be at least ½ inch in thickness and if of approved composition they must be at least ¼ inch in thickness.

b. Cabinets may be made of either cast or sheet metal, wood or approved composition. Wooden or composition cabinets must not be used on metal conduit, armored cable or metal moulding systems. All metal used in construction of cabinets, including linings, if any, must be thoroughly painted or otherwise treated to prevent corrosion.

c. Wood must be well seasoned and at least ¾ inch thick and be thoroughly filled and painted, and must be lined with a non-combustible material.

d. In all cabinets, linings of slate, marble or approved composition must be at least ¼ inch thick and firmly secured in place; when metal is used for the lining it must be at least No. 16 U. S. sheet metal gage in thickness. For lining wooden cabinets ⅛ inch rigid asbestos board may be used when firmly secured in place by screws or tacks.

e. Only approved material should be used in composition cabinets, and in no case shall it be less than ¾ inch in thickness.

f. If cast metal is used a thickness of at least ⅛ inch must be provided. Sheet metal must not be less than .0625 inch thick (No. 16 U. S. sheet metal gage), and must in every case be of sufficient thickness or so reinforced as to comply with paragraph a of this section. In steel cabinets having an area of more than 360 square inches for any surface or having a single dimension greater than 2 feet, sheet metal must be used at least No. 14 U. S. sheet metal gage in thickness; in those having an area of more than 1,200 square inches for any surface or having a single dimension greater than 4½ feet, the sheet metal must be at least No. 12 U. S. sheet metal gage in thickness.

g. Doors must shut closely at all edges against a rabbet formed as a part of the door or trim or must have turned flanges at all edges. Hinges must be of strong and durable design. A substantial latch or catch must be provided so as to keep the door closed, and a lock may be used in addition to the catch if desired. When doors have glass panels the glass must be at least ⅛ inch thick (commercial thickness), and must not have a greater area than 450 square inches unless plate glass at least ¼ inch in thickness is used.

h. Cabinets must be marked with manufacturer's name where the name can be plainly seen when the cabinet is installed.

§ 571. Rosettes.

a. Current-carrying parts of rosettes must be mounted on non-combustible, non-absorptive, insulating bases. There should be no openings through the rosette base except those for the supporting screws and in the concealed type for the conductors also, and these openings should not be made any larger than necessary. There must be at least ¼ inch space, measured over the surface, between supporting screws and current-carrying parts. The supporting screws must be so located or countersunk that the flexible cord cannot come in contact with them. Bases for the knob and cleat type must have at least 2 holes for supporting screws; must be high enough to keep the wires and terminals at least ½ inch from the surface to which the rosette is attached and must have a porcelain lug under each terminal to prevent the rosette from being placed over projections which would reduce the separation to less than ½ inch. Bases for the moulding and conduit box types must be high enough to keep the wires and terminals at least ⅜ inch from the surface wired over.

b. Contact pieces and terminals must be secured in position by at least 2 screws, or made with a square shoulder, or otherwise arranged to prevent turning. The nuts or screw heads on the under side of the base must be countersunk not less than ⅛ inch and covered with a waterproof compound which will not melt below 150 degrees Fahrenheit (65 degrees Centigrade).

c. Line terminal plates must be at least .06 inch in thickness, and terminal screws must not be smaller than No. 6 standard screw with about 32 threads per inch. Terminal plates for the flexible cord and for fuses must be at least .06 inch in thickness. The connection to these plates shall be by binding screws not smaller than No. 5 standard screw with about 40 threads per inch. At all binding screws for line wires and for flexible cord, upturned lugs, or some equivalent arrangement, must be provided which will secure the wires being held under the screw heads.

d. The diameter of the cord inlet hole should measure 13-32 inch in order that standard portable cord may be used.

e. Ample space must be provided for a substantial knot tied in the cord as a whole. All parts of the rosette upon which the knot is likely to bear must be smooth and well rounded.

f. When the rosette is made in 2 parts, the cover must be secured to the base so that it will not work loose. In fused rosettes, the cover must fit closely over the base so as to prevent the accumulation of dust or dirt on the inside, and also to prevent any flash or melted metal from being thrown out when the fuses melt.

g. Rosettes must be plainly marked where the making it may readily be seen after the rosette has been installed, with the name or trade mark of the manufacturer, and the rating in amperes and volts. Fuseless rosettes may be rated 3 amperes, 250 volts; fused rosettes, with link fuses, not over 2 amperes, 125 volts.

h. Fused rosettes must have a fuse in each pole and must operate successfully when short-circuited on the voltage for which they are designed, the test being made with the 2 fuses in circuit.

§ 572. Sockets.

a. Sockets shall be classed according to diameters of lamp bases as candelabra, medium and mogul base, to be known respectively as ½ inch, 1 inch and 1½ inch nominal sizes, with ratings as specified in the following table:

		Ratings.					
		Key.			Keyless.		
Class.	Nominal diam.	Watts.	Volts.	Max. amp. at any voltage.	Watts.	Volts.	Max. amp. at any voltage.
Candelabra	1-2 in.	75	125	3-4	75	125	1
Medium	1 in.	250	250	2 1-2	660	250	6
		*660	250	6	660	600	
Mogul	1 1-2 in.				1500	250	
		†			1500	600	

*This rating may be given only to sockets having a switch mechanism which produces both a quick "make" and a quick "break" action.

† Ratings to be assigned later, pending further discussion with manufacturers.

Miniature sockets and receptacles having screw shells smaller than the candelabra size may be used for decorative lighting systems, Christmas tree lighting outfits and similar purposes.

b. All sockets and receptacles must be marked with the name or trade-mark of the manufacturer and with the watts and volts which apply to the class. The rating marks may be abbreviated, as, for example, "250 W., 250 V." Each lamp holder of double-ended sockets must be rated as specified above, the device being marked with a single marking applying to each end.

c. Metal used for shells must be moderately hard, but not hard enough to be brittle or so soft as to be easily dented or knocked out of shape. Brass shells must

be at least .13 inch in thickness and for mogul sockets not less than .025 inch, and shells of any other material must be thick enough to give the equivalent stiffness and strength.

d. The inside of metal shells must be lined with insulating material, which must absolutely prevent the shell from becoming a part of the circuit, even though the wires inside the sockets should become loosened or detached from their position under the terminal screws. The material used for lining must be at least 1-32 inch in thickness, and must be firm, compact, tough and tenacious. It must not be injuriously affected by the heat from the largest lamp permitted in the socket, and must leave water in which it is boiled practically neutral. It is preferable to have the lining in one piece. The lining must not extend beyond the metal shell more than ⅛ inch, but must prevent any current-carrying part of the lamp base from being exposed when a lamp is in the socket. The cap must also be lined, and this lining must comply with the requirements for shell linings.

e. Caps when made of sheet brass must be at least .013 inch in thickness and .025 for mogul sockets, and when cast or made of other metals must be of equivalent strength.

The inlet piece must contain sufficient metal for 5 full threads, and when not in one piece with the cap must be riveted or otherwise secured to give the strength of a single piece. There must be sufficient room in the cap to enable the ordinary wireman to easily and quickly make a knot in the cord and to push it into place in the cap without crowding. All parts of the cap upon which the knot is likely to bear must be smooth and well insulated.

f. The frame which holds the moving parts must be sufficiently heavy to give ample strength and stiffness. Brass pieces containing terminal screws must be sufficiently heavy to give ample strength and stiffness, and have at least .06 inch of thread for terminal screws. Terminal post screws must not be smaller than No. 5 standard screw, with about 40 threads per inch.

g. For candelabra sockets and medium size sockets rated at 250 volts, points of opposite polarity must everywhere be kept not less than 3-64 inch apart, and for mogul sockets and sockets rated at 600 volts not less than ⅛ inch apart, provided, however, if substantial barriers of approved insulating material are used to separate such parts, these distances may be correspondingly reduced, but in no event must the separation distances measured over the surfaces of the barriers be less than those specified above.

h. The connecting points for the flexible cord must be made to very securely grip a No. 16 or 18 B. & S. gage conductor. An upturned lug, arranged so that the cord may be gripped between the screw and the lug in such a way that it cannot possibly come out, is strongly advised.

i. The socket must firmly hold the lamp in place so that it cannot be easily jarred out and must provide a contact good enough to prevent undue heating with the maximum current allowed. The holding pieces, springs and the like, if a part of the circuit, must not be sufficiently exposed to allow them to be brought in contact with anything outside of the lamp and socket.

j. The base on which current carrying parts are mounted must be of porcelain or other non-combustible, non-absorptive, insulating material approved for such use.

k. The key handle must not soften or become injured when used to operate the socket at a temperature of 150 degrees Fahrenheit. The handle should be thoroughly substantial and securely, but not necessarily rigidly, attached to the spindle or lever which it is designed to control.

l. All screws in porcelain pieces, which can be firmly sealed in place, must be so sealed by a waterproof compound which will not melt below 200 degrees Fahrenheit (93 degrees Centigrade).

m. The socket as a whole must be so put together that parts will not rattle or fall apart under the most severe conditions they are likely to meet with in practice. The base of the socket must be secured or held in the shell in such a manner as to prevent turning or displacement relative to the shell.

n. Sockets when slowly turned "on" and "off" at a rate of approximately 10 times per minute, while carrying a load of .6 of an ampere at 125 volts for candelabra, and 1 ampere and 3 amperes at 250 volts for medium sized 250 watt and 660-volt sockets, respectively, must "make" and "break" the circuit 6,000 times before failing, and when new must operate successfully at least 50 times at 50 per cent. in excess of the above currents, based on either 125 and 250 volts direct current and except for pull sockets when operated in either direction in any position.

o. Keyless sockets of all kinds must comply with the requirements for key sockets as far as they apply.

p. Sockets made of porcelain or other insulating material must conform to the above requirements as far as they apply, and all parts must be strong enough to withstand a moderate amount of hard usage without breaking. Lead wires permanently attached to sockets and sealed in place must have separate outlets or be separated not less than ¼ inch in the clear. The wires must be stranded and have approved insulating coverings.

q. When the socket is not attached to a fixture, the threaded inlet must be provided with a strong insulating bushing having a smooth hole at least 9-32 inch in diameter. The edges of the bushing must be rounded and all inside fins removed, so that in no place will the cord be subjected to the cutting or wearing action of a sharp edge.

§ 573.

§ 574. Arc lamps.

a. Arc lamps must be provided with reliable stops to prevent carbons from falling out in case the clamps become loose.

b. All exposed parts must be carefully insulated from the circuit.

c. Arc lamps must, for constant current systems, be provided with an approved hand switch, and an automatic switch that will shunt the current around the carbons, should they fail to feed properly.

d. Terminals must be designed to secure a thoroughly good and permanent contact with supply wires, which contact must not become loosened by motion of the lamp during trimming.

§ 575. Spark arresters.

a. Spark arresters must so close the upper orifice of the globe that it will be impossible for any sparks, thrown off by the carbons, to escape.

§ 576. Insulating joints.

a. Insulating joints must, with the exception of exterior finishing or waterproofing material, be made entirely of material that will resist the action of illuminating gases, and that will not give way or soften under the heat of an ordinary gas flame.

b. Insulating joints must, with the exception of insulating studs designed to be mounted with screws or bolts, have a substantial exterior metal casing insulated from both screw connections. All exposed surfaces of insulating material must be smooth, hard and waterproof.

c. Insulating joints must show a dielectric strength between pipe attachments and between either pipe attachment separately and the exterior metal casing sufficient to resist throughout 5 minutes the application of an A. C. electro-motive force of 4,000 volts.

d. Insulating joints must be sufficiently strong to resist the strain to which they are liable to be subjected during the installation. Joints made for attachment to pipes of nominal 3-4 inch diameter or smaller must be able to withstand, without injury, a twisting effect at least as great as that required to cause the threads to give way on ordinary commercial iron gas pipe of the largest size upon which the joint can be threaded. This test need not be applied to insulating studs designed to be mounted with screws or bolts.

e. Insulating joints must be threaded for standard iron pipe (Brigg's standard thread) or for brass tube pipe standard thread as given in the following table:

Standard Iron Pipe.

Trade size.	Actual outside diameter, inches.	No. of threads to the inch.
1-8	.405	27
1-4	.540	18
3-8	.675	18
1-2	.840	14
3-4	1.050	14
1	1.315	11 1-2
1 1-4	1.660	11 1-2
1 1-2	1.900	11 1-2
2	2.375	11 1-2
2 1-2	2.875	8
3	3.500	8

Joints to fit standard brass tubing having outside diameters or trade name sizes from 1-4 inch to 3-4 inch must be threaded with 27 threads to the inch.

§ 577. Fixtures.

a. Fixtures must be made of metal or hard wood, except that other approved material may be used if reinforced by metal or otherwise constructed to secure requisite mechanical strength. In all cases mechanical strength must be secured practically equivalent to an all-metal fixture of similar size and form.

b. All arms must be reliably secured to prevent turning. Arms of threaded tubing must not be lighter than No. 18 B. & S. gage and with screw joints of arms there must be not less than 5 threads, all engaging. All methods of fastening arms or making joints between metal parts by soldering, brazing or otherwise, must be such as to secure in every case ample strength and reliability. Must be so assembled as to furnish accessibility for inspection, or in lieu thereof must be inspected at the factory.

c. Sockets must, except on pendant cords, be attached to the metal of the fixtures and must be secured in a reliable and permanent manner. Receptacles having exposed terminals must not be used in canopies or in any part of fixtures unless completely enclosed in metal.

d. All burrs, fins and sharp edges liable to injure wire coverings must, where practicable, be removed or rounded, but in every case it must be possible to pull in and also to withdraw the wires without injuring them. Where supply wires enter fixture stems or casings there must be suitable fittings having smooth rounded edges to prevent injury to the wire coverings. In non-metallic fixtures wireways must be metal-lined, unless approved armored conductors with suitable fittings are used. On chains or similar parts, where conductors are not completely enclosed in metal, wires must be stranded and must have rubber insulation not less than 1-32 inch in thickness, or approved pendant or portable cord may be used.

e. Fixtures must be marked with the manufacturer's name or trade-mark.

f. Fixtures must be tested in an approved manner for short circuits between conductors and for contacts between conductors and metal parts of fixtures.

g. Showcase fixtures, ceiling bulls-eyes, dome fixtures and similar types must be sufficiently ventilated, where possible, to avoid exposing the wiring to high temperatures and the wiring at such fixtures should be so disposed as to be kept as free as possible from excessive temperatures.

§ 578. Rheostats, resistance boxes and equalizers.

a. Rheostats, resistance boxes and equalizers must be made entirely of non-combustible materials, except such minor parts as handles, magnet insulation, etc. All segments, lever arms, etc., must be mounted on non-combustible, non-absorptive isulating material.

b. Rheostats, resistance boxes and equalizers must be so constructed that when mounted on a plane surface the casing will make contact with such surface only at the points of support. An air space of at least 1-4 inch between the rheostat casing and the supporting surface will be required. The construction throughout must be heavy, rugged and thoroughly workmanlike.

c. Clamps for connecting wires to the terminals must be so designed as to insure a thoroughly good connection, and must be sufficiently strong and heavy to withstand considerable hard usage. For currents above 30 amperes, lugs into which the connecting wires may be soldered, or approved solderless connectors, must be used. Clamps or lugs will not be required when leads are provided as a part of the device.

d. Rheostats, resistance boxes and equalizers must be plainly marked, where the marking may be readily seen after the device is installed, with the rating and the name of the maker; and the terminals of motor-starting rheostats must be marked to indicate to what part of the circuit each is to be connected, as "line," "armature" and "field."

e. The design of the fixed and movable contacts and the resistance in each section must be such as to secure the least tendency toward arcing and roughening of the contacts, even with careless handling or the presence of dirt. In motor-starting rheostats, the contact at which the circuit is broken by the lever arm when moving from the running to the starting position must be so designed that there will be no detrimental arcing. The final contact, if any, on which the arm is brought to rest in the starting position must have no electrical connection.

f. Motor-starting rheostats must be so designed that the contact cannot be left on intermediate segments, and for direct current circuits must be provided with an automatic device which will interrupt the supply circuit before the speed of the motor falls to less than ⅓ of its normal value. In motor-starting rheostats for alternating current circuits the automatic interrupting device may be omitted.

g. Overload-release devices which are inoperative during the process of starting a motor will not be approved, unless other circuit breakers or fuses are installed in connection with them.

h. Rheostats, resistance boxes and equalizers must, after 100 operations under the most severe normal conditions for which the device is designed, show no serious burning of the contacts or other faults, and the release mechanism of motor-starting rheostats must not be impaired by such a test. Field rheostats, or main-line regulators intended for continuous use, must not be burned out or depreciated by carrying the full normal current on any step for an indefinite period. Resistances intended for intermittent use (such as on electric cranes, elevators, etc.) must be able to carry their rated current on any step for as long a time as the character of the apparatus which they control will permit them to be used continuously. Starting duty resistances for direct current motors shall be so constructed that when the voltage marked on the name plate or not more than 10 per cent. in excess thereof is applied to the main line terminals, and the starting arm or other starting mechanism is operated at such a rate that the current through the resistance does not fall below the rated full load current, and this test is continued for not more than 3 minutes, there shall be no resultant flaming or molten droppings; or if the resistance conductor is fused, the arc or any attendant flame or molten droppings shall be confined within the rheostat. Starting duty resistances for alternating current motors shall be tested as specified above for direct current starting resistances, except that for starters especially designed for squirrel cage or single phase motors the test conditions shall be so modified either by reduction in the applied voltage or by the use of supplementary resistances as to produce approximately the same current conditions as will be met with in service. Continuous duty resistances shall either be so constructed that if the resistive conductor be fused the arc or any attendant flame or molten droppings shall be confined within the rheostat or they shall be constructed with such capacity that if subjected to a current flow throughout the entire rheostat, 25 per cent. in excess of that at which they are rated, for a period of 2 hours, there shall be no resultant flaming or molten droppings.

§ 579. Auto-starters.

a. Coils and switches of auto-starters used in dusty and linty places or where exposed to flyings of combustible material, must be completely enclosed in substantial metal cases so constructed as to effectually exclude ordinary dust, lint or flyings of combustible material.

Auto-starters used in places where the above conditions do not exist, may be of any approved type. Cases for either transformer coils or switches must provide for access to the interior for inspection and for renewal of oil, and must be so constructed that when mounted on a plain surface the casing will make contact with such surface only at points of support. An air space at least ¼ inch between the casing and supporting surface will be required. The oil tank shall be marked in a suitable manner to indicate the proper oil level. The switch must provide an off position, a running position and at least one starting position. It must be so arranged that it will be held in off and running positions but cannot be left in a starting position or without the proper running overload protective devices in the circuit. The construction throughout must be thoroughly substantial.

b. Clamps for connecting wires to the terminal boards must be so designed as to insure a thoroughly good connection and must be sufficiently strong and heavy to withstand considerable hard usage. For currents above 30 amperes, lugs into which the connecting wires may be soldered, or approved solderless connectors, must be used. Clamps or lugs will not be required when leads are provided as a part of the device.

c. Auto-starters must be plainly marked, where the marking may be readily seen after the device is installed, with the rating and name of the maker; terminals to be so marked as to indicate to what part of the circuit each is to be connected.

d. The insulation of the completely assembled apparatus must withstand for 1 minute a potential test between live metal parts and frame, core and case as follows:

Rated terminal voltage of circuit.	Testing voltage.
Not exceeding 400 volts	1500 volts
401-800	2000 "
801-1200	3500 "
1201-2500	5000 "
2500 up	Double normal rated voltages

e. With full line voltage applied to line terminals and current taken from taps giving between 40 and 60 per cent. of the normal line voltage, 300 per cent. of full load current of the motor applied for the first 15 seconds of each 4-minute period for not more than 1 hour auto-starters must show no resultant flaming or molten droppings. The oil, if any, in which the transformer windings are immersed shall not overflow the containing case.

§ 580. Reactive coils and condensers.

a. Reactive coils must be made of non-combustible material, mounted on non-combustible bases and treated, in general, as sources of heat.

b. Condensers must be treated like other apparatus operating with equivalent voltage and currents. They must have non-combustible cases and supports, and must be isolated from all combustible materials and, in general, treated as sources of heat.

§ 581. Transformers.

1. Air cooled transformers.

a. Air cooled transformers must be placed in substantial metallic or other non-combustible cases, which completely enclose all current-carrying parts, with the exception of the terminals of the secondary winding of bell or other signaling transformers which may be mounted outside the casing. Air colled transformers must be so constructed that when mounted on a plane surface the casing will make contact with such surface only at the points of support. An air space of at least ¼ inch between the transformer casing and the supporting surface will be required. The construction throughout must be substantial and thoroughly workmanlike.

b. Air cooled transformers must be plainly marked, where the marking will be readily seen after the transformer is installed, with the name of maker, with the frequency, the primary and all secondary voltages, and the rated capacity in kilo-volt-amperes.

c. Air cooled transformers must be constructed to comply with the following tests:

1. The secondary winding shall be short circuited and normal voltage shall be applied to the primary winding for a period sufficiently long either to cause a burnout or to cause the casing to attain a constant temperature. If the transformers when so tested burn out there shall be no escape of flames or molten metal.

2. When heated to normal full load operating temperature the insulation of the transformer shall withstand continuously for 1 minute a difference of potential (alternating), between high voltage coils and between the high voltage coils and the core, in accordance with the standardization rules of the American Institute of Electrical Engineers.

2. Bell ringing or other signaling transformers.

d. Transformers for bell-ringing or other signaling service only must be constructed in accordance with the following specifications and may be approved for use when all wiring on the primary side is in accordance with the requirements of article 4 of this chapter.

e. Must comply with the requirements of paragraphs a and b of this section and also with the following specifications:—

1. Provision shall be made for connecting the primary winding to the supply circuit by leads of approved rubber-covered wire not smaller than No. 14 B. & S. gage, which must be securely soldered within the case to the ends of the primary coil. These leads must pass through the walls of the case through insulating bushings which must separately insulate each conductor. The leads must extend at least 6 inches outside the case and provision must be made to prevent strain coming on the points where the leads are attached to the primary winding.

2. The primary voltage rating shall not be over 125 volts.

3. The design of the transformer shall be such that when any 2 secondary terminals are short-circuited, while 110 volts (60 cycles) are impressed on the primary, the input measured by a watt meter in the primary circuit shall not be more than 25 watts.

4. In addition to the test prescribed in paragraph c of this section, the transformers shall be run at normal primary voltage and with secondary short circuited until a constant temperature is reached as indicated by a mercury thermometer on the outside of the case. The rise in temperature so measured shall not exceed 50 degrees Centigrade. At the end of the heating test above, the insulation shall withstand for 1 minute the application of 2,500 volts A. C. between primary and secondary coils and between primary and the core or case.

5. The proper terminals must be marked "Line" and "Bell."

§ 582. Lightning arresters.

a. Lightning arresters must be of approved construction.

§ 583. Electric Signs (for Low Potential System Only).

a. Electric signs shall be constructed entirely of metal, or other incombustible material, except the insulation thereof. Sheet metal must be not less than No. 28 U. S. sheet metal gage. All metal must be galvanized, enameled, treated with at least 3 coats of anti-corrosive paint, or otherwise protected in an approved manner against corrosion.

b. Electric signs must be so constructed as to secure ample strength and rigidity. Electric signs must be so constructed as to be practically weatherproof and so as to enclose all terminals and wiring other than the supply leads, except that open work will be permitted for signs on roofs or open ground where not subject to mechanical injury, provided the wiring is in accordance with paragraph e of this section. Cut-outs, transformers, unless of weatherproof type, flashers and other similar devices on or within the sign structure, must be in a separate, completely enclosed, accessible and weatherproof compartment, or in a substantial weatherproof box or cabinet of metal of thickness not less than that of the metal of the sign itself. Each compartment must have suitable provision for drainage through one or more holes each not less than ¼ inch in diameter.

c. Electric signs must have the maker's name or trade mark permanently attached to the exterior.

d. Receptacles must be so designed as to afford permanent and reliable means to prevent possible turning; must be so designed and placed that terminals will be at least ½ inch from other terminals and from metal of the sign, except that where open work is permitted this separation must be 1 inch. Miniature receptacles will not be approved for use in outdoor signs.

e. Wiring must be approved rubber covered, not less than No. 14 B. & S. gage, and, except where open work is permitted, must be double braided. Wiring must be neatly run and so disposed and fastened as to be mechanically secure. Wires must be soldered to terminals, and exposed parts of wires and terminals must be treated to prevent corrosion. Wires must, where they pass through walls or partitions of the sign be protected by approved bushings. On outside of sign structure, except where open work is permitted, wires must be in approved metal conduit or in approved lead sheathed armored cable. For open work, wires must be rigidly supported on non-combustible non-absorptive insulators which separate the wires at least 1 inch from the surface wired over. Rigid supporting requires, under ordinary conditions where wiring over flat surfaces, supports at least every 4½ feet. If the wires are liable to be disturbed the distances between supports should be shortened. In those parts of circuits where wires are connected to approved receptacles which hold them at least 1 inch from surface wired over, and which are placed not over 1 foot apart, such receptacles will be considered to afford the necessary support and spacing of the wires. Between receptacles more than 1 foot, but less than 2 feet apart, an additional non-combustible, non-absorptive insulator maintaining separation and spacing equivalent to the receptacles, must be used. Except as above specified wires must be kept apart at least 2½ inches for voltages up to 300, and 4 inches for higher voltages.

f. Leads from signs must pass through the walls of the sign either through approved metal conduit or armored cable, or must be neatly cabled and pass through one or more bushings of approved non-combustible, non-absorptive insulated bushings.

g. Not over 1,320 watts shall be dependent upon final cutout.

ARTICLE 6.

Miscellaneous.

Section 685. Signaling systems.
686. Wireless telegraph apparatus.
687. Electric gas lighting.
688. Insulation resistance.

§ 685. Signaling systems.

1. *Outside wires.* a. Outside wires must be run in underground ducts or strung on poles, and kept off the roofs of buildings, except by special permission, and must not be placed on the same cross-arm with electric light or power wires. They must not occupy the same duct, manhole or handhole of conduit systems with electric light or power wires. Single manholes, or handholes separated into sections by means of partitions of brick or tile will be considered as conforming with the above requirement. When the entire circuit from central station to building is run in underground conduits, paragraphs b to m inclusive of this section do not apply.

b. When outside wires are run on same pole with electric light or power wires, the distance between the two inside pins of each cross-arm must not be less than 24 inches. When the wires are carried in approved cables, paragraphs c, d and e of this section do not apply.

c. Where wires are attached to the outside walls of buildings, they must have an approved rubber insulating covering, and on frame buildings or frame portions of other buildings shall be supported on glass or porcelain insulators, or knobs.

d. The wires from last outside support to the cut-outs or protectors must be of copper, and must have an approved rubber insulation; must be provided with drip loops immediately outside the building and at entrance.

e. Wires must enter building through approved non-combustible, non-absorptive insulating bushings sloping upward from the outside, and both wires may enter through the same bushing, if desired.

2. *Ten ampere installations.* f. An all-metallic circuit shall be provided, except in telegraph systems.

g. At the entrance of wires to building, approved single pole cut-outs, designed for 251-600 volts potential and containing fuses rated at not over 10 amperes capacity, shall be provided for each wire. These cut-outs must not be placed in the immediate vicinity of easily ignitable stuff, or where exposed to inflammable gases, or dust or to flyings of combustible material.

h. The wires inside building shall be of copper not less than No. 16 B. & S. gage, and must have insulation and be supported, the same as would be required for an installation of electric light or power wiring, 0-600 volts potential.

i. The instruments shall be mounted on bases constructed of non-combustible, non-absorptive insulating material. Holes for the supporting screws must be so located, or counter-sunk, that there will be at least 1-2 inch space, measured over the surface, between the head of the screw and the nearest live metal part.

3. *Less than 10 ampere installations.* j. Wires must be provided with an approved protective device located as near as possible to the entrance of wires to building. The protector must not be placed in the immediate vicinity of easily ignitable stuff, or where exposed to inflammable gases or dust or flyings of combustible materials.

k. Wires from entrance to building to protector must be supported on porcelain insulators, so that they will come in contact with nothing except their designed supports.

l. The ground wire of the protective device shall be run in accordance with the following requirements:—

1. Shall be of copper and not smaller than No. 18 B. & S. gage.

2. Must have an insulating covering approved for voltages from 0 to 600, except that the preservative compound may be omitted.

3. Must run in as straight a line as possible to a good permanent ground. This may be obtained by connecting to a water or gas pipe connected to the street mains or to a ground rod or pipe driven in permanently damp earth. When connections are made to pipes, preference shall be given to water pipes. If attachment is made to gas pipe, the connection in all cases must be made between the meter and the street mains. In every case the connection shall be made as near as possible to the earth. When the ground wire is attached to a water pipe or a gas pipe, it may be connected by means of an approved ground clamp fastened to a thoroughly clean portion of said pipe, or the pipe shall be thoroughly cleaned and tinned with rosin flux solder, and the ground wire shall then be wrapped tightly around the pipe and thoroughly soldered to it. When the ground wire is attached to a ground rod driven into the earth, the ground wire shall be soldered to the rod in a similar manner. Steam or hot-water pipes must not be used for a protector ground.

m. The protector to be approved must comply with the following requirements:

1. For instrument circuits of telegraph systems, an approved single pole cut-out in each wire, designed for 2,000 volts potential, and containing fuses rated at not over 1 ampere capacity. When main line cut-outs are installed as called for in paragraph g of this section the instrument cut-outs may be placed between the switchboard and the instrument as near the switchboard as possible;

2. In all other systems the protector must be mounted on non-combustible, non-absorptive insulating bases, so designed that when the protector is in place, all parts which may be alive will be thoroughly insulated from the wall to which the protector is attached. The protector must have the following parts:

A lightning arrester which will operate with a difference of potential between wires of not over 500 volts, and so arranged that the chance of accidental grounding is reduced to a minimum;

A fuse designed to open the circuit in case the wires become crossed with light or power circuits. The fuse must be able to open the circuit without arcing or serious flashing when crossed with an ordinary commercial light or power circuit;

A heat coil, if the sensitiveness of the instrument demands it, which will operate before a sneak current can damage the instrument the protector is guarding;

Heat coils are necessary in all circuits normally closed through magnet windings, which cannot indefinitely carry a current of at least 5 amperes;

The heat coil is designed to warm up and melt out with a current large enough to endanger the instruments if continued for a long time, but so small that it would not blow the fuses ordinarily found necessary for such instruments.

3. The fuses must be so placed as to protect the arrester and heat coils, and the protector terminals must be plainly marked "line," "instrument," "ground." An easily read abbreviation of the above words will be allowed.

4. *Generally.* The following rules apply to all systems whether the wires from the central office to the building are overhead or underground:

n. Wires beyond the protector, or wires inside buildings where no protector is used, must be neatly arranged and securely fastened in place in some convenient, workmanlike manner. They must not come nearer than 2 inches to any electric light or power wire in the building, unless separated therefrom by some continuous and firmly fixed non-conductor creating a permanent separation; this non-conductor to be in addition to the regular insulation on the wire.

o. Wires where bunched together in a vertical run within any building must have a fire-resisting covering sufficient to prevent the wires from carrying fire from floor to floor unless they are run either in non-combustible tubing or in a fireproof shaft, which shaft must be provided with fire stops at each floor. Signaling wires and electric light or power wires may be run in the same shaft, provided that one of these classes of wires is run in non-combustible tubing, or provided that when run otherwise these two classes of wires shall be separated from each other by at least 2 inches. In no case shall signaling wires be run in the same tube with electric light or power wires.

p. Transformers or other devices for supplying current to signaling systems from light, heat or power circuits must be of a design expressly approved for this purpose. The primary wiring must be installed in accordance with the requirements of article 4 of this chapter, and the secondary wiring in accordance with this article.

§ 686. Wireless telegraph apparatus.

In setting up wireless telegraph apparatus, all wiring within the building must conform to the requirements of this chapter for the class of work installed and the following additional specifications:

a. Aerial conductors must be permanently and effectively grounded at all times when station is not in operation by a conductor not smaller than No. 4 B. & S. gage copper wire, run in as direct line as possible to water pipe at a point on the street side of all connections to said water pipe within the premises, or to some other equally satisfactory earth connection.

b. Aerial conductors when grounded as above specified must be effectually cut off from all apparatus within the building.

c. Or the aerial must be permanently connected at all times to earth in the manner specified above, through a short-gap lightning arrester, said arrester to have a gap of not over .015 inch between brass or copper plates not less than 2½ inches in length parallel to the gap, and 1½ inches the other way with a thickness of not less than ⅛-inch mounted upon non-combustible, non-absorptive insulating material of such dimensions as to give ample strengh. Other approved arresters of equally low resistance and equally substantial construction may be used.

d. In cases where the aerial is grounded as specified in paragraph a of this section, the switch employed to join the aerial to the ground connection shall not be smaller than a standard 100 ampere knife switch.

e. Where supply is obtained direct from the street service the circuit must be installed in approved metal conduits or armored cable. In order to protect the supply system from high potential surges, there must be inserted in circuit either a transformer having a ratio which will give a potential on the secondary leads not to exceed 550 volts, or two condensers in series across the line the connection between said condensers to be permanently and effectually grounded. These condensers should have capacity of not less than ½ micro-farad.

§ 687. Electric gas lighting.

a. Electrical gas lighting, unless it is the frictional system, must not be used on the same fixture with the electric light.

§ 688. Insulation resistance.

The wiring in any building must comply with the following requirements: The complete installation must have a resistance between conductors and between all conductors and the ground (not including attachments, sockets, receptacles, etc.) not less than that given in the following table:

Up to 5 amperes	4,000,000 ohms
Up to 10 amperes	2,000,000 ohms
Up to 25 amperes	800,000 ohms
Up to 50 amperes	400,000 ohms
Up to 100 amperes	200,000 ohms
Up to 200 amperes	100,000 ohms
Up to 400 amperes	50,000 ohms
Up to 800 amperes	25,000 ohms
Up to 1,600 amperes	12,500 ohms

The test must be made with all cut-outs and safety devices in place. If the lamp sockets, receptacles, electroliers, etc., are also connected, only one-half of the resistance specified in the table will be required.

ARTICLE 7.
Violations.

Section 700. Violations.

§ 700. Violations. Any person who shall violate any provision of this chapter, or fail to comply with any requirement thereof, or who shall violate or fail to comply with any order or regulation of the commissioner made thereunder, or who, being the holder of a special permit, as defined in subdivision 7 of section 1 of this chapter, shall install, alter or repair any electric wiring or appliance for light, heat or power, in violation of the terms of such special permit or any provision of this chapter, shall, for each and every such violation or non-compliance forfeit and pay a penalty in the sum of $50.

Section 2. This ordinance shall take effect immediately; provided that the first sentence of subdivision 1 of § 6 of article 1 hereof, shall not take effect until November 1, 1915.

WM. D. BRUSH, ARNON L. SQUIERS, LAUREN CARROLL, W. F. QUINN, W. H. PENDRY, OSCAR IGSTAEDTER, Committee on General Welfare.

City of New York, Department of Water Supply, Gas and Electricity, Office of the Commissioner, Municipal Building, New York City, June 24, 1915.

Hon. WILLIAM D. BRUSH, *Chairman, Committee on General Welfare, Board of Aldermen:*

Dear Sir—As a result of several conferences held by me with representatives of the various phases of electrical industry, I am of the opinion that the proposed ordinance, entitled "An ordinance to amend chapter 9 of the Code of Ordinances, by incorporating therein seven new articles relating to electrical control," should be amended in the particulars indicated in the attached schedule, entitled "Schedule of amendments proposed by the Commissioner of Water Supply, Gas and Electricity to Ordinance No. 1873, relating to chapter 9 of the Code of Ordinances."

I will thank you to submit the amendments referred to your Committee, for consideration in connection with the above entitled ordinance.

Respectfully,
WILLIAM WILLIAMS, Commissioner.
June 24, 1915.

Schedule of amendments proposed by the Commissioner of Water Supply, Gas and Electricity to Ordinance No. 1873, relating to chapter 9 of the Code of Ordinances.

Amend sub-division 5 of § 1 of article 1 of chapter 9 to read as follows:

5. Certificate of inspection, the certificate of the commissioner that the installation, alteration or repair of electric wiring or appliances for light, heat or power in a building has been inspected, and is approved by the department, *either temporarily or finally;*

Amend sub-division 10 of § 1 of article 1 to read as follows:

10. Signalling systems, [governing] wiring for telephone, telegraph, except wireless telegraph apparatus, district messenger and call bell circuits, fire and burglar alarms, and all similar systems which are hazardous only because of their liability to become crossed with electric light, heat or power circuits.

Amend sub-division 11 of § 1 of article 1 to be sub-division 12, and insert a new sub-division as follows:

11. *Special license, the authorization of the commissioner for a person in the exclusive employ of the owner or manager of a building to install, alter or repair electric wiring or appliances for light, heat or power therein during the term of such special license;*

Amend sub-division 2 of § 5 of article 1 to read as follows:

2. To the following described electrical equipment used in connection with lighting and power companies: (a) generating stations, (b) sub-stations, (c) storage battery stations [and], (d) storage buildings and yards *and (e) service switches and controlling devices, and meters and their attached controlling and testing devices;* provided, that the electrical equipment hereinabove referred to be owned or leased and operated by, or for the exclusive benefit of, persons or corporations subject to the jurisdiction of either of the public service commissions of the State of New York, or their successors.

Amend sub-division 1 of § 6 of article 1 to read as follows:

1. Generally. No person shall install, alter or repair electric wiring or appliances for light, heat or power in any building except a person holding a license, *a special license* or a special permit as defined in § 1 of this chapter, *or a person employed by and working under the general supervision of the holder of a license, a special license or a special permit,* and after application for a certificate of inspection of such installation, alteration or repair. A license *or a special license* shall remain in force for 1 year from the date of issue, and a special permit shall remain in force during the performance of the work which it authorizes, unless modified, suspended or revoked as hereinafter provided; but in no case shall a special permit remain *in* force for more than 1 year.

Amend § 7 of article 1 to read as follows:

7. Applications. All applications for licenses, *special licenses,* special permits or certificates of inspection shall be made to the commissioner, in such form and detail as he may from time to time prescribe. A license, *special license* or special permit shall not be transferable.

Amend sub-division 2 of § 8 of article 1 to read as follows:

2. Jurisdiction. All applications for licenses *or special licenses* shall be referred by the commissioner to the board, which shall promptly investigate and report to the commissioner as to the fitness for license of the respective applicants. The board shall meet at least once in every week for the consideration of such applications. The board shall investigate and report to the commissioner respecting any charge that may be made against the holder of a license *or a special license.*

Amend § 9 of article 1 to read as follows:

§ 9. Fees. There shall be charged and collected by the commissioner a fee of [$50] $10 for each license issued under the provisions of this chapter, and thereafter an annual fee of $5 for each renewal of such license, and a fee of $1 for each *special license or* special permit so issued.

Amend sub-division 1 of § 11 of article 1 to read as follows:

1. Issue. If after inspection, the electric wiring or appliance *s* for light, heat or power in a building shall be found by the commissioner to have been installed, altered or repaired in conformity with the requirements of this chapter, he shall issue a *temporary or final* certificate of inspection therefor.

Amend § 12 of article 1 to read as follows:

§ 12. Supplying current. No person shall supply electric current for light, heat or power to any wiring or appliances in any building until a certificate of inspection, *temporary or final,* authorizing the use of said wiring or appliances shall have been issued by the commissioner . [; provided, however, that wiring or appliances installed by or under the supervision of the holder of a license may be supplied with current immediately upon the installation of such wiring or appliances].

Amend paragraph a of § 312 of article 3 to read as follows:

a. This article shall not apply to conductors on highways.

Amend general section 2 of the ordinance to read as follows:

Section 2. This ordinance shall take effect immediately; *provided that the first sentence of subdivision* 1 *of* § 6 *of article* 1 *hereof shall not take effect until November* 1, 1915.

Which was laid over.

No. 1914—(G. O. No. 718).

Report of the Committee on General Welfare in Favor of Adopting Ordinance Relating to the Manufacture, Transportation, Storage, Sale and Use of Petroleum, Shale Oil and the Liquid Products Thereof and Coal Tar.

The Committee on General Welfare, to which was referred on June 22, 1915 (Minutes, page 904), the annexed ordinance relating to the manufacture, transportation, storage, sale and use of petroleum, shale oil and the liquid products thereof, and coal tar, respectfully

REPORTS:

That, having examined the subject, it believes the proposed ordinance to be necessary. This has been prepared by the Fire Department, and is amended up to date.

The Committee recommends that the said ordinance be adopted.

AN ORDINANCE to amend article 8 of chapter 10 of the Code of Ordinances relating to the manufacture, transportation, storage, sale and use of petroleum, shale oil and the liquid products thereof, and coal tar.

Be it Ordained by the Board of Aldermen of The City of New York as follows:

Section 1. § 110 of chapter 10 of the Code of Ordinances is hereby amended to read as follows:

Section 110. Refining, distilling or manufacturing. *Except as otherwise provided* [No] *no* persons shall manufacture, refine or distill petroleum, shale oil or coal tar, or the liquid products [of any] thereof, *or store, transport or use any of the foregoing without a* [except under authority of a special] permit; but no permit shall hereafter be issued for the erection and operation of any new plant of a similar character, except that hydro-carbon materials collected from oil separators may be distilled or refined under a special permit.

Section 2. Subdivision 5 of section 111 of chapter 10 of the Code of Ordinances is hereby amended to read as follows:

5. *Tanks.* All storage tanks comprising or forming a part of an oil storage plant shall be [placed underground and embedded in soft earth] *buried* so that the tops thereof shall be at least two feet below the grade level [provided, however, that,

Note—New matter in *italics;* old matter in [ ] to be omitted.

by special permit, the storage of oils in tanks above ground may be authorized where the physical conditions make it impracticable to place the tanks underground.] *In localities where physical conditions make it impracticable to place tanks underground, the fire commissioner may authorize the tanks of an oil storage plant to be placed above ground. In such cases the maximum capacity of each tank above ground containing volatile inflammable oil shall be fixed by the following schedule, viz.:*

If distant 25 feet from line of adjoining property which may be built upon	8,000 *gals.*
If distant 30 *feet*	12,000 *gals.*
If distant 40 *feet*	18,000 *gals.*
If distant 50 *feet*	24,000 *gals*
If distant 60 *feet*	30,000 *gals.*
If distant 75 *feet*	48,000 *gals.*
If distant 85 *feet*	75,000 *gals.*
If distant 100 *feet*	100,000 *gals*

At storage plants where the tanks are above ground the maximum capacity of each tank containing kerosene or fuel oil may be determined by doubling the above capacities, but in no case shall any tank have a capacity greater than 100,000 *gallons. At all storage plants all tanks above ground, including those containing volatile inflammable oil, the filling tanks, if any, and also tanks containing kerosene, shall be* [By special permit, the storage of volatile inflammable oils in storage tanks above ground may be authorized, provided such tanks are of approved type and construction and are] surrounded by a wall of concrete, forming an enclosure capable of holding the entire contents of the *group of* tanks *enclosed therein should any tank become disrupted. The total capacity of any such group shall not exceed* 250,000 *gallons* [and provided that the quantity of volatile inflammable oil to be stored shall not exceed 50,000 gallons]. To facilitate the filling *at oil storage plants of steel barrels or drums, with volatile inflammable oils, and kerosene, or to fill horse-drawn tank wagons as conditionally allowed in this chapter* [of tank wagons], there may be installed [in] *as part of* a storage plant not more than [4] 3 *filling* tanks, *each of a capacity of not more than* 4,200 *gallons,* elevated on brick, concrete or steel piers, *to contain naphtha, gasoline and kerosene, respectively; and* [having an aggregate capacity of not more than 10,000 gallons. All] *all* oils *remaining* [stored] in the *filling* tanks [provided for in this section shall be returned to the storage tanks underground at the close of each day. The tanks authorized in this subdivision shall not be used for the storage of volatile inflammable oils] *at the end of each day shall be at once returned to the storage tanks proper. The buried tanks of an oil storage system shall be separated from each other by not less than one foot of solid concrete, well tamped into place. All tanks of an oil storage system shall be so connected with each other by a system of underground pipes that the contents of each tank can be transferred to any other tank at will, and all other details of the installation shall be as directed by the fire commissioner in each particular case. At all storage plants each tank including the filling tank, if any, shall be equipped with a fire extinguishing system satisfactory to the fire commissioner. Each oil storage system shall have a direct telegraphic communication with fire headquarters. All tanks, as to thickness and quality of material, hydrostatic pressure test, foundations, connections, fire protection and extinguishing system and all other details of installation must be according to plans first approved by the fire commissioner. No tank forming part of a buried oil storage system shall be covered from sight until after an inspection has been made by the fire department, and written approval has been given; which approval shall be given without charge, provided all the regulations have been complied with.*

Section 3. Subdivision 8 of section 111 of chapter 10 of the Code of Ordinances is hereby amended to read as follows:

8. *Supervision.* A plant for the storage, *manufacture, refining or distilling* of petroleum [or] shale oil *or coal tar* or any liquid product thereof [or of coal tar,], shall be continuously under the care and supervision of [a] *one or more* person*s each* holding a certificate of fitness as manager or superintendent thereof. *The number of persons required to hold such certificates shall be determined by the fire commissioner and stated in the permit, but in no case shall there be required more than three.*

Section 4. Section 112 of chapter 10 of the Code of Ordinances is hereby amended to read as follows:

Section 112. Limited Storage. 1. *Permit.* Permits may be issued for the storage of petroleum and shale oil, and the liquid products thereof, and of coal tar, *in a manner satisfactory to the fire commissioner,* in buildings *or premises* other than storage plants, in quantities not to exceed the following:

(a) Volatile inflammable oils—[In steel barrels or drums, ten barrels of fifty-five gallons each; in cans, five hundred gallons;] 550 *gallons.*

(b) Other oils that do not emit an inflammable vapor at a temperature below 100 degrees F. *when tested in a Tagliabue* open cup tester [in barrels, fifty barrels of fifty-five gallons each; in cans, one thousand gallons] 1,100 *gallons.*

2. *Restrictions.* No permit shall be issued for the storage or sale of volatile inflammable oil in any building:

(a) Which is occupied as a tenement house, dwelling, school or place of public amusement or assembly;

(b) Where explosives are stored or kept for sale or use:

(c) Where dry goods or other material of a highly inflammable nature are manufactured, stored or kept for sale;

(d) Where the portion of the building occupied or used for the storage of volatile inflammable oil is lighted by any means other than electricity;

(e) Upon any floor above the ground floor of [the] *a* building, *except in an approved safety can in quantities of five gallons or less and for use only.*

Section 5. Subdivision 4 of Section 114 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows:

4. *Transportation.* Except as otherwise provided in this section, volatile inflammable oil may be transported only in the following containers:

a. Cans of a capacity not to exceed 5 gallons each, having plainly marked thereon the words "DANGEROUS—KEEP FROM FLAME," and being equipped with a metal seal, so arranged that there shall be no outlet for the oil unless the seal is broken;

b. Glass bottles of a capacity not exceeding 4 ounces each, labeled DANGEROUS—Keep from Flame;

c. Steel barrels or drums of a capacity not [to] exceeding 55 gals. each, having plainly marked thereon the word DANGEROUS.

(d) Volatile inflammable oil drawn from an approved storage system on the premises, and intended for further manufacture or use, may be transported for such use in approved safety cans of a capacity not greater than five gallons.

Section 6. Subdivision 2 of Section 114 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows:

2. *Retail sales.* No person shall sell [and] *or* deliver volatile inflammable oil, in quantities exceeding [5 gallons] 1 *gallon* unless the purchaser thereof holds a permit for the transportation, storage, sale or use of [such] *said* oil; provided, that nothing contained in this chapter shall be construed as requiring a permit for the storage of volatile inflammable oil in the tanks of motor vehicles, motor tricycles, motorcycles, motor boats, airships, aeroplanes, or other similar craft or vehicles, for use as fuel for generating motive power; and provided further that no permit shall be required for the transportation, storage or use of volatile inflammable oil in quantities not exceeding 1 gallon.

Section 6. Subdivision 3 of Section 115 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows:

3. *Test.* No person shall sell or offer for sale any kerosene or other illuminating oil which will emit an inflammable vapor at a temperature lower than 100 degrees F. when tested [either in the open air or] in *a* [the closed pyrometer of Giuseppe] Tagliabue *open cup tester.*

Section 7. Subdivision 2 of Section 115 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows:

2. *Empty barrels.* All [kerosene] barrels, cans and other containers *of liquid products of petroleum, coal tar or shale oil* shall be removed from [the] *all* premises *other than storage plants* within twenty-four hours after being emptied.

Section 8. Section 114 of Chapter 10 of the Code of Ordinances is hereby amended by adding thereto a new subdivision, to be Subdivision 5 thereof, to read as follows:

5. *Use and storage. Printers, lithographers and similar users of volatile inflammable oil shall be required to keep their supply of such oil in approved safety cans or buried storage tanks.*

Limited permits may be issued by the fire commissioner for periods of less than one year, authorizing the storage and use of volatile inflammable oil, kerosene or fuel oil on streets, sidewalks, avenues and highways, or in a building under construction, when needed in connection with authorized building operations or street improvements, when such material is enclosed in an approved metal container, and, if in quantities greater than ten gallons is surrounded by an enclosure satisfactory to the Fire Commissioner, constructed of corrugated iron or other fire retarding materials, the same to be kept securely locked when not in actual use.

Section 9. Subdivision 1 of Section 113 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows:

1. *Permit.* Except as otherwise provided in this chapter, no person shall transport, *store, sell* [or] deliver *or use* within the city any petroleum or shale oil, or the liquid products of either, or of coal tar, without a permit.

Section 10. Subdivision 6 of Section 11 of Article 8 of Chapter 10 of the Code of Ordinances is hereby repealed.

Section 11. This ordinance shall take effect immediately.

WM. D. BRUSH, ARNON L. SOUIERS, LAUREN CARROLL, W. F. QUINN, W. H. PENDRY, OSCAR IGSTAEDTER, Committee on General Welfare.

Which was laid over.

No. 1905—(G. O. No. 719).

Report of the Committee on General Welfare in Favor of Adopting Ordinance in Relation to the Storing or Keeping of Cotton, Flax, Hemp, Hay, Etc.

The Committee on General Welfare, to which was referred on June 22, 1915 (Minutes, page 907), the annexed ordinance in relation to the storing or keeping of cotton, flax, hemp, jute, etc., respectfully

REPORTS:

That this proposed ordinance was under consideration heretofore and was returned for the purpose of modification as to communities outside the fire limits. This has been done, and the Committee now recommends that the said ordinance be adopted as presented herewith.

AN ORDINANCE to Amend Article 2 of Chapter 12 of the Code of Ordinances Relating to the Storing or Keeping of Cotton, Flax, Hemp, Jute, Oakum, Straw, Hay Moss, Husks, Broom Corn, Seaweed, Cotton and Woolen Rags, Paperstock, Paper Clippings, Cardboard, Sawdust, Shavings, Excelsior and Other Similar Articles and Substances.

Be it Ordained by the Board of Aldermen of The City of New York, as follows:

Section 1. Subdivision 2 of § 24 of Chapter 12 of the Code of Ordinances is hereby amended to read as follows:

2. *Permit required.* No person shall store or keep on hand in any [building or] *premises* any combustible fibre or material in excess of [2] 1 ton[s] without a permit from the commissioner; *provided, however, that in rural communities outside of fire limits, no permit shall be required for the storage of hay and straw in barns or out-of-doors stacks, where such stacks are not within 50 feet of a building occupied as a dwelling.* The annual fee for such a permit shall be for quantities of 10 tons or more, $10; over 5 tons and less than 10 tons, $5; over [2] 1 ton[s] and less than 5 tons, $2.

Section 2. Subdivision 3 of § 24 of Chapter 12 of the Code of Ordinance is hereby amended to read as follows:

3. *Restrictions.* No permit shall be issued for such storage in any building or premises:

a. Situated within 50 feet of the nearest wall of a building occupied as a school, hospital, theatre or other place of public amusement or assembly;

b. Occupied as a tenement house, *or* hotel, [workshop or factory];

c. Of wooden construction, except in sparsely populated districts, where it shall be in the discretion of the commissioner;

d. Which is not equipped with a fire extinguishing system, approved by the fire commissioner;

e. Where paints, varnishes, or lacquers are manufactured, stored or kept for sale;

f. Where dry goods, or other highly inflammable materials are manufactured, stored or kept for sale;

g. Where matches, rosin, turpentine or any explosives are stored or kept.

Section 3. Section 24 of Chapter 12 of the Code of Ordinances is hereby amended by adding thereto a new subdivision to be subdivision 6 thereof, to read as follows:

6. *Factories. The storage of combustible fibres in any building used as a factory or workshop (except where such combustible fibre enters into the article or material manufactured in such workshop or factory) is prohibited unless such combustible fibre does not exceed five tons and is used and stored in a portion of the premises separated from the remainder of the building by walls, floors and ceilings, protected by fire retarding material and with all floor openings similarly protected and constructed in a manner approved by the fire commissioner. In no event shall more than one permit be granted for the storage of combustible fibre in a single building used as a factory or workshop.*

Section 4. This ordinance shall take effect immediately.

Note—New matter in *italics;* old matter in [ ] to be omitted.

WM. BRUSH, ARNON L. SOUIERS, LAUREN CARROLL, W. F. QUINN, W. H. PENDRY, OSCAR IGSTAEDTER, Committee on General Welfare.

Which was laid over.

No. 1911.

Report of the Committee on General Welfare in Favor of Adopting Ordinance Relating to Private or Non-professional Exhibitions of Motion Pictures.

The Committee on General Welfare, to which was referred on June, 1915 (Minutes, page 909), the annexed ordinance relating to private or non-professional exhibitions of motion pictures, respectfully

REPORTS:

That, having examined the subject, it believes the proposed amendment to be warranted. The matter has been investigated and approved by the Fire Department and the Commissioner of Licenses.

The Committee recommends that the said ordinance be adopted.

AN ORDINANCE to Amend an Ordinance entitled "An Ordinance Constituting the Code of Ordinances of The City of New York."

Be it Ordained by the Board of Aldermen of The City of New York, as follows:

Section 42 of article 2, chapter 3 of the Code of Ordinances of The City of New York is hereby amended to read as follows:

Section 42. Private or non-professional exhibitions of motion pictures. The provisions of this article shall not apply to motion picture exhibitions, with or without charge for admission, conducted under the direct management of educational or religious institutions, nor to motion picture exhibitions, without charge for admission, given or held not more than once a week in private residences or in bona fide social, scientific, political or athletic clubs, *nor to any motion picture exhibitions in which the apparatus for projecting such motion pictures uses only an enclosed incandescent lamp, only cellulose acetate or other slow-burning film of a size or perforation differing from the Standard as used in theatrical machines, and is approved by the Fire Commissioner as being unsuitable for the use of inflammable motion picture films;* provided:

1. Before motion pictures shall be exhibited, in any of the places above mentioned, there shall be obtained from the commissioner of licenses a permit for such exhibition:

2. Before granting such permit, the commissioner shall cause to be inspected the premises where it is proposed that exhibition shall be held, and shall grant the permit if, in his judgment, the safety of the public is properly guarded, and provided that, for an audience of more than 75 people, all chairs or seats shall be securely fastened to the floor or fastened together in rows:

3. The apparatus for projecting such motion pictures shall be contained in a fire-proof both or enclosure, constructed as required by the law; or, where a motion picture machine is used in such an exhibition the machine may be enclosed in an unventilated fire-proof box, of a size sufficient to enclose the machine properly to be approved by the fire commissioner; *except the apparatus or motion picture machine uses only cellulose acetate films of a size or perforation differing from the Standard as used in theatrical machines, and uses only an enclosed incandescent lamp and is approved by the Fire Commissioner as being unsuitable for the use of inflammable motion picture films.*

4. Every such exhibition shall be subject to the inspection of the officers and inspectors of the department of licenses, for the purposes of this article.

5. *Should a charge for admission be made for any exhibition herein referred to, or any revenue derived therefrom directly or indirectly, the commissioner of licenses may in his discretion impose a fee for the issuance of such permit, which said fee however shall not exceed the rate of $5.00 per month for the period for which the permit is sought.*

Note—New matter in *italics.*

WM. BRUSH, ARNON L. SOUIERS, LAUREN CARROLL, WM. F. QUINN, WM. H. PENDRY, OSCAR IGSTAEDTER, Committee on General Welfare.

Which, on motion of Alderman White, was recommitted to the Committee on General Welfare for a public hearing.

No. 1912—(G. O. No. 721).

Report of the Committee on General Welfare in Favor of Adopting Ordinance Amending the Ordinance Relating to Street Musicians.

The Committee on General Welfare to which was referred on June 22, 1915 (Minutes, page 910), the annexed ordinance amending an ordinance relating to street musicians, respectfully

REPORTS:

That this is in line with other amendments to the Code in relation to establishing a uniform date for the expiration of licenses.

It, therefore, recommends that the said ordinance be adopted.

AN ORDINANCE amending an ordinance relating to street musicians.

Be it Ordained by the Board of Aldermen of The City of New York, as follows:

Sections 170 and 171, Article 14, Chapter 14, of the Code of Ordinances of The City of New York, are hereby amended to read as follows:

Section 1. Section 170. Hand-organ grinders. No person shall use or perform on a hand organ in any street or public place, unless such hand organ shall be licensed as hereinafter ordained. Upon payment of a license fee of $5 per annum, the commissioner of licenses may grant and issue licenses for such number of hand organs as he may deem proper, not to exceed, however, the total number of 800. The license so granted and issued must be conspicuously displayed at all times upon the front of the hand organ. No person using or performing upon a hand organ shall solicit, ask or request any money for such use or performance in any way, shape or manner, directly or indirectly. No person shall use or perform upon a hand organ in any street or public place, before the hour of 9 A. M. nor after the hour of 6 P. M. of any day; nor during any part of the first day of the week commonly called Sunday; nor within a distance of 500 feet of any school house or house of public workship, during school hours or hours of public workship, respectively; nor within a like distance of any court, public office, hospital, asylum, or other public institution, nor within a distance of 250 feet of any tenement house, dwelling house or other building, when directed or requested by any occupant thereof to refrain from or discontinue using or performing upon such hand organ.

All licenses for hand organs shall be issued as of January 1st, and shall expire on the 31st day of December next succeeding the date of issuance thereof.

All hand organ licenses now in force, which shall not sooner expire, shall expire on the 31st day of December next succeeding the date on which this ordinance takes effect. All hand organ licenses now in force, the terms of which would otherwise bring their expiration to a period beyond the 31st day of December next succeeding the date this ordinance takes effect, may be renewed by the licensees for another term, if presented on or before the said December 31st, and for each full calendar month of the unexpired term of the old license a pro rata amount of the fee paid therefor shall be applied toward the payment of the new fee. All hand organ licenses issued between the time this ordinance takes effect and the following December 31st, shall be charged the full fee mentioned above, but all such licenses may be renewed by the licensees, if presented on or before such December 31st, at the pro rata rates heretofore prescribed in this paragraph.

Section 2. Section 171. Itinerant musicians. No person shall engage in the business of a street musician, playing for hire or voluntary contribution from door to door, or otherwise, without having first obtained a license therefor. Such licenses shall be granted by the commissioner; provided that the person or persons applying therefor shall have been residents of the City for at least one year prior to such application, and shall pay for such license the sum of $10, the license to be renewed from year to year, upon the annual payment of such fee. The term of residence required by this section shall be proved by affidavit of the person applying for such license and of two other persons resident of the city, which affidavits shall state the different places of residence in the city occupied by said applicant during the year preceding his application. The provisions of this section shall apply only to itinerant musicians and shall not be construed so as to affect any band of music or organized musical or religious society, engaged in any military or civic parade, or to any musical performance conducted under a license from municipal authority.

All licenses for itinerant musicians shall be issued as of January 1st and shall expire on the 31st day of December next succeeding the date of issuance thereof.

All licenses for itinerant musicians now in force, which shall not sooner expire, shall expire on the 31st day of December next succeeding the date on which this ordinance takes effect.

All licenses for itinerant musicians now in force, the terms of which would otherwise bring their expiration to a period beyond the 31st day of December next succeeding the date this ordinance takes effect, may be renewed by the licensees for another term, if presented on or before the said December 31st, and for each full calendar month of the unexpired term of the old license a pro rata amount of the

fee paid therefor shall be applied toward the payment of the new fee. All licenses for itinerant musicians issued between the date this ordinance becomes effective and the following December 31st, shall be charged the full fee mentioned above, but all such licenses may be renewed by the licensees, if presented on or before the said December 31st, at the pro rata rates heretofore prescribed in this paragraph.

Section 3. This ordinance shall take effect immediately.

Note—New matter in *italics.*

WM. D. BRUSH, ARNON L. SQUIERS, LAUREN CARROLL, WM. F. QUINN, WM. H. PENDRY, OSCAR IGSTAEDTER, Committee on General Welfare.

Which was laid over.

No. 1913—(G. O. No. 722).

Report of the Committee on General Welfare in Favor of Adopting Ordinance Amending an Ordinance Relating to Exterior Hoists.

The Committee on General Welfare, to which was referred on June 22, 1915 (Minutes, page 911), the annexed ordinance amending an ordinance relating to exterior hoists, respectfully,

REPORTS:

That this is in line with other amendments to the license ordinance establishing a uniform time for the expiration of licenses.

The Committee recommends that the said resolution and ordinance be adopted.

AN ORDINANCE amending an ordinance relating to exterior hoists.

Be it Ordained by the Board of Aldermen of The City of New York, as follows:

Section 70, Article 7, Chapter 14, of the Code of Ordinances of The City of New York, is hereby amended to read as follows:

Section 1. Section 70 Licenses; fees [.]; *term.* No person shall hoist anything whatsoever, on the outside of a building from the street, into any loft or lower anything on the outside thereof, by any means, without a license therefor and giving an indemnity bond to the city, with sufficient surety, approved by the commissioner. Any one generally engaged in such a business shall take out a general license, and any one so hoisting in front of certain premises only shall take out a special license therefor. The annual fee for a general hoisting license shall be $25. The fee for a special hoisting license shall be $1.

All licenses for exterior hoists shall be issued as of January 1, and shall expire on the 31st day of December next succeeding the date of issuance thereof.

All licenses for exterior hoists now in force, which shall not sooner expire, shall expire on the 31st day of December next succeeding the date on which this ordinance takes effect.

All general hoist licenses now in force, the terms of which would otherwise bring their expiration to a period beyond the 31st day of December next succeeding the date this ordinance takes effect, may be renewed for another term by the licensees, if presented on or before the said December 31, and for each full calendar month of the unexpired term of the old license a pro rata amount of the fee paid therefor shall be applied toward the payment of the new fee. All hoist licenses issued between the time this ordinance becomes effective and the following December 31, shall be charged, the full fee mentioned above, but all such general hoist licenses may be renewed by the licensees, if presented on or before such December 31, at the pro rata rates heretofore prescribed in this paragraph.

Section 2. This ordinance shall take effect immediately.

Note—New matter in *italics;* old matter in [ ] to be omitted.

WM. D. BRUSH, ARNON L. SQUIERS, LAUREN CARROLL, WM. F. QUINN, WM. H. PENDRY, OSCAR IGSTAEDTER, Committee on General Welfare.

Which was laid over.

No. 1914—(G. O. No. 723).

Report of the Committee on General Welfare in Favor of Adopting Ordinance Amending an Ordinance Relating to Public Porters.

The Committee on General Welfare, to which was referred on June 22, 1915 (Minutes, page 912), the annexed ordinance amending an ordinance relating to public porters, respectfully

REPORTS:

That this proposed ordinance merely provides for a uniform expiration of licenses.

The Committee recommends that the said ordinance be adopted.

AN ORDINANCE amending an ordinance relating to public porters.

Be it Ordained by the Board of Aldermen of The City of New York, as follows:

Section 151, Article 12, Chapter 14, of the Code of Ordinances of The City of New York, is hereby amended to read as follows:

Section 1. Section 151. License fees [.]; *term.* Every person on receiving a license to be a public porter shall pay a fee of $1; and the sum of 25 cents upon each renewal of such license.

All public porter licenses shall be issued as of January 1, and shall expire on the 31st day of December next succeeding the date of issuance thereof.

All public porter licenses now in force, which shall not sooner expire, shall expire on the 31st day of December next succeeding the date on which this ordinance takes effect, but may be renewed by the licensees for another term, if presented on or before the said December 31, for the renewal fee mentioned above; and all licenses issued between the date this ordinance takes effect and the following December 31st, shall be charged the full fee, but may be renewed by the licensees, if presented on or before the said December 31st, for the renewal fee prescribed above.

Note—New matter in *italics;* old matter in [ ] to be omitted.

WM. D. BRUSH, ARNON L. SQUIERS, LAUREN CARROLL, WM. F. QUINN, WM. H. PENDRY, OSCAR IGSTAEDTER, Committee on General Welfare.

Which was laid over.

No. 1915—(G. O. No. 724).

Report of the Committee on General Welfare in Favor of Adopting Ordinance Amending an Ordinance Relating to Peddlers.

The Committee on General Welfare, to which was referred on June 22, 1915 (Minutes, page 912), the annexed ordinance amending an ordinance relating to peddlers, respectfully

REPORTS:

That this ordinance provides for a uniform expiration of licenses.

The Committee recommends that the said ordinance be adopted.

AN ORDINANCE amending an ordinance relating to peddlers.

Be it Ordained by the Board of Aldermen of The City of New York as follows:

Subdivision 1 of section 130, section 131 and section 132 of article 10, chapter 14, of the Code of Ordinances of The City of New York are hereby amended to read as follows:

Section 1. Section 130, Subdivision 1. Definitions. Any person hawking, peddling, vending or selling merchandise in the streets of the city shall be deemed to be a peddler, and shall be classified as follows: *A peddler using a motor-driven vehicle;* a peddler using a horse and wagon; a peddler using a push cart; and a peddler personally carring merchandise.

Section 2. Section 131. License fees [.] ; *term.* The annual license fees payable by peddlers shall be, for each peddler:

Using a motor-driven vehicle	$8 00
Using a horse and wagon	8 00
Using a push cart	4 00
Personally carrying his merchandise	2 00

All peddler licenses shall be issued as of May 1, and shall expire on the 30th day of April next succeeding the date of issuance thereof.

All peddler licenses now in force, which shall not sooner expire, shall expire on the 30th day of April next succeeding the date on which this ordinance takes effect, but all such licenses for peddlers using a horse and wagon or a push cart may be renewed by the licensees, if presented on or before the said April 30, and for each full calendar month of the unexpired term of the old license a pro rata amount of the fee paid therefor shall be applied toward the payment of the new fee; and all peddler licenses issued between the time this ordinance becomes effective and the following April 30, shall be charged the full fees mentioned above, but all such licenses for peddlers using a motor-driven vehicle, or a horse and wagon, or a push cart, may be renewed by the licensees, if presented on or before the said April 30, at the pro rata rates heretofore prescribed in this section.

All peddlers using motor-driven vehicles, and operating as such at the time this ordinance takes effect under licenses issued to them as peddlers using a horse and wagon, may continue to operate under such license until the following April 30, unless sooner expiring, and upon such expiration may be renewed as peddlers using a motor-driven vehicle, as hereinbefore provided.

Section 3. Section 132. Designation of vehicles. Any vehicle used in peddling shall show on each outside thereof the words "Licensed Peddler," together with the figures of its official number, and any peddler duly licensed to use a horse and wagon *or a motor-driven vehicle* may employ 2 persons, and no more, to assist in selling and delivering the wares, but such persons shall so act only while accompanying a licensed peddler.

Section 4. This ordinance shall take effect immediately.

Note—New matter in *italics;* old matter in [ ] to be omitted.

WILLIAM D. BRUSH, ARNON L. SQUIERS, LAUREN CARROLL, W. F. QUINN, W. H. PENDRY, OSCAR IGSTAEDTER, Committee on General Welfare.

Which was laid over.

No. 1916—(G. O. No. 725).

Report of the Committee on General Welfare in Favor of Adopting Ordinance Amending an Ordinance Relating to Second-hand Dealers.

The Committee on General Welfare, to which was referred on June 22, 1915 (Minutes, page 913), the annexed ordinance amending an ordinance relating to second-hand dealers, respectfully

REPORTS:

That this proposed ordinance provides for a uniform time for the expiration of licenses.

The Committee recommends that the said ordinance be adopted.

AN ORDINANCE amending an ordinance relating to second-hand dealers.

Be it Ordained by the Board of Aldermen of The City of New York as follows:

Section 41, article 4, chapter 14 of the Code of Ordinances of The City of New York is hereby amended to read as follows:

Section 1. Section 41. License fee and bond [.] ; *term.* The annual license fee for each dealer in second-hand articles shall be $25, and every such dealer shall give a bond to the city, with sufficient surety, to be approved by the commissioner of licenses, in the penal sum of $100, conditioned for the due observance of the provisions of law or ordinance relating to such dealers.

All licenses for dealers in second-hand articles shall be issued as of February 1 and shall expire on the 31st day of January next succeeding the date of issuance thereof.

All licenses for dealers in second-hand articles now in force, which shall not sooner expire, shall expire on the 31st day of January next succeeding the date on which this ordinance takes effect. All licenses for dealers in second-hand articles now in force, the terms of which would otherwise bring their expiration to a period beyond the 31st day of January next succeeding the date this ordinance takes effect, may be renewed by the licensees for another term if presented on or before the said January 31st, and for each full calendar month of the unexpired term of the old license a pro rata amount of the fee paid therefor shall be applied toward the payment of the new fee; and all licenses issued between the time this ordinance becomes effective and the following January 31st, shall be charged the full fee mentioned above, but may be renewed by the licensees, if presented on or before the said January 31st, at the pro rata rates heretofore prescribed in this paragraph.

Section 2. This ordinance shall take effect immediately.

Note—New matter in *italics;* old matter in [ ] to be omitted.

WILLIAM D. BRUSH, ARNON L. SQUIERS, LAUREN CARROLL, W. F. QUINN, W. H. PENDRY, OSCAR IGSTAEDTER, Committee on General Welfare.

Which was laid over.

No. 1922—(G. O. No. 726).

Report of the Committee on General Welfare in Favor of Adopting Ordinance Amending Ordinance in Relation to Removal of Snow and Ice from Sidewalks.

The Committee on General Welfare, to which was referred on June 22, 1915 (Minutes, page 915) the annexed ordinance in relation to clearing sidewalks of snow and ice, respectfully

REPORTS:

That, having examined the subject, it believes the proposed amendment to be necessary to make the ordinance read correctly, it being merely a change of one word.

It therefore recommends that the said ordinance be adopted.

AN ORDINANCE to Amend Subdivision 1 of Article 3 of Chapter 22 of the Code of Ordinances Relating to "Snow and Ice," as Amended.

Be it Ordained, by the Board of Aldermen of The City of New York, as follows:

Section 1. Subdivision 1 of Section 21 of Article 3 of Chapter 22 of the Code of Ordinances, relating to "Snow and Ice," as amended May 11, 1915, is hereby further amended to read as follows:

Section 21. Property owners. 1. *Must clear sidewalks.* Every owner, lessee, tenant, occupant, or other person having charge of any building or lot of ground in the city, abutting upon any street or public place where the sidewalk is paved, shall, within 4 hours after the snow ceases to fall, or after the deposit of any dirt or other material upon said sidewalk, remove the snow and ice, dirt or other material from the sidewalk and gutter, the time between 9 p. m. and 7 a. m. not being included in the above period of four hours; provided, however, that such removal shall in all cases be made before the removal of snow and ice from the roadway by the commissioner of street cleaning, or by the borough president of Queens or Richmond, or subject to the regulations of said commissioner of street cleaning, or of said borough president of Queens or Richmond, for the removal of snow and ice, dirt and other material; except that in the boroughs of Queens and Richmond any owner, lessee, tenant or occupant or other person who has charge of any ground abutting upon any paved street or public place, for a linear distance of 500 feet or more, shall be considered to have complied with this section, if such person shall have begun to remove the snow and ice from the sidewalk and gutter before the expiration of the said 4 hours, and shall continue and complete such removal within a reasonable time.

Whenever any owner, lessee, tenant, occupant or other person having charge of any building or lot of ground abutting upon any street or public place where the sidewalk is paved shall fail to comply with the provision of any ordinance of the City for the removal of snow and ice, dirt, or other material from the sidewalk and gutter in the street, on the side of the street on which such building or lot abuts, the President of the Borough in which such building or vacant lot is located may cause such removal to be made, meeting the expense thereof from any suitable street cleaning or highway fund, and thereafter the expense of such removal as to each particular lot of ground shall be ascertained and certified by the said Borough President to the Comptroller, and the Board of Estimate and Apportionment may authorize such additional expenditures as may be required for the said removal of such ice and snow, dirt or other material, to be repaid to the fund from which the payments were made, with proceeds from the issue and sale of revenue bonds which shall be sold by the Comptroller, as provided by law.

The said Borough President shall, as soon as possible, after the work is done, certify to the Corporation Counsel the amount of the expense chargeable against each piece of property.

The Corporation Counsel is hereby directed and authorized to sue for and recover the amount of this expense, together with three (3) dollars penalty for each offense, and when so recovered the amount shall be turned over to the City Chamberlain to be deposited to the credit of the general fund of the City of New York for the *reduction* [redemption] of taxation.

Section 2. This ordinance shall take effect immediately.

Note—New matter in *italics;* old matter, in brackets [ ], to be omitted.

WILLIAM D. BRUSH, ARNON L. SQUIERS, LAUREN CARROLL, W. F. QUINN, W. H. PENDRY, OSCAR IGSTAEDTER, Committee on General Welfare.

Which was laid over.

Reports of Committee on Public Letting—

No. 1853 (S. O. No. 232).

Report of the Committee on Public Letting in Favor of Adopting Resolution to Authorize the Department of Water Supply, Gas and Electricity to Contract for Installation of Mains.

The Committee on Public Letting, to which was re-referred on June 22, 1915 (Minutes, page 842), the annexed resolution in favor of authorizing the Department of Water Supply, Gas and Electricity to contract for the installation of certain high pressure mains, respectfully

REPORTS:

That, having again examined the subject, it believes the proposed permission to be advisable, as it is really a saving to the City by having the work done at this time by the contractor who has his plant on the ground.

It, therefore, recommends that the said resolution be adopted.

Resolved, That, in pursuance of the provisions of section 419 of the Greater New York Charter, the Commission of Water Supply, Gas and Electricity be, and he is hereby authorized and empowered to enter into a contract with Holbrook, Cabot and Rollins Corporation, without public letting, for the installation of high pressure mains in the vicinity of Broadway and 43rd and 44th streets, in the Borough of Manhattan, at a cost not to exceed Twenty-five hundred dollars ($2,500).

JOHN DIEMER, W. F. QUINN, JOHN McCANN, FRANK J. DOTZLER, EDWARD H. TAYLOR, WILLIAM DUGGAN, Committee on Public Letting.

Which was laid over.

No. 1861 (S. O. No. 233).

Report of the Committee on Public Letting in Favor of Adopting Resolution to Permit the President of the Borough of The Bronx to Contract for Sewer in 177th Street Without Public Letting.

The Committee on Public Letting, to which was referred on June 15, 1915 (Minutes, page 675), the annexed request of the President of the Borough of The Bronx for authority for the construction of sewers and appurtenances in East 177th Street, without public letting, respectfully

REPORTS:

That, having examined the subject, it believes the proposed purchase to be for the benefit of the City and that the price for same is reasonable. The details are fully set forth in the letter of request. This is a case where advertising is entirely unnecessary.

The Committee recommends that the accompanying resolution be adopted.

Resolved, That, in pursuance of the provisions of section 419 of the Greater New York Charter, the President of the Borough of The Bronx be and he is hereby authorized and empowered to enter into contract with the New York, New Haven and Hartford Railroad Company, without public letting, for the purchase of a sewer lying across the right-of-way of said railroad company within the lines of Tremont avenue, in the Borough of The Bronx, at a cost not to exceed forty thousand dollars ($40,000); such contract, however, not to be entered into until the railroad company has agreed to grant to The City of New York, for a nominal consideration, the perpetual right and easement to maintain the sewer in question, not only so far as relates to the part thereof already mentioned, but including the right-of-way of the railroad company, with the usual right of entry and re-entry for the purpose of maintaining and keeping in repair the sewer in question or any one that may later be substituted therefor; provided, further, that said contract be approved as to all its forms and provisions by the Corporation Counsel, and the value of the construction to be delivered pursuant to the terms of such contract to be audited and passed upon as to reasonable value by the Comptroller.

JOHN DIEMER, W. F. QUINN, JOHN McCANN, FRANK J. DOTZLER, EDWARD H. TAYLOR, WILLIAM DUGGAN, Committee on Public Letting.

City of New York, President of the Borough of The Bronx, 3d Avenue and 177th Street, Office of the President, June 14, 1915.

Hon. GEORGE MCANENY, *President of the Board of Aldermen, City Hall, Manhattan, New York City:*

Sir—The office of the President of the Borough of The Bronx has heretofore received from the Board of Estimate and Apportionment preliminary authorization for the construction of sewers and appurtenances in East 177th Street between Metcalf Avenue and the easterly line of the existing sewer within the property of the New York, New Haven and Hartford Railroad Company, and between the westerly end of the existing sewer within the property of the New York, New Haven and Hartford Railroad Company and Bronx Park Avenue; and then through various streets and places up to the well known Morris Park tract, of which this sewer is designed to be one of the outlet sewers. The preliminary work for this improvement is progressing, and it is anticipated that within the next few months the final authorization of the Board of Estimate and Apportionment will be given for the doing of the work.

Part of the sewer improvement necessary to perfect the work contemplated by the above mentioned authorizations, lies across the right of way of the New York, New Haven and Hartford Railroad Company within the lines of Tremont Avenue. It has been found that the railroad company when, a few years since, it constructed its new six-track railroad, built and constructed a double concrete sewer, each of the barrels being in dimensions 9 by 8 feet, beneath its tracks at the point mentioned. The total length of each of the parts of the double sewer is about 265.3 feet. It appears from the records of my office that when the then Chief Engineer of the Borough of The Bronx was asked to furnish to the railroad company a list of sewers with the plans therefor, which were to be built under the so-called "six-tracking agreement," made between the railroad in question and the City of New York, dated December 23, 1914, which will be found set forth in full on pages 1924-1931 of the Board of Estimate Minutes for the year 1904, this particular sewer was included in such list and plans therefor were furnished. It further appears that it was built under the supervision of the City's representatives. This particular section of sewer was a new sewer and did not take the place of one theretofore existing. The City has never, as yet, used the double sewer constructed. It complies in all respects with the final drainage plans of the Borough of The Bronx. The railroad company for several years past has taken the position that it should not have built this sewer, claiming that its liability under the so-called six-tracking agreement, was limited to the rebuilding of then existing sewers. The railroad company disputes the right of the City to enter upon and use the double concrete sewer so constructed, or to enter upon its land above mentioned within the limits before referred to, either to construct the necessary additional sewer or to build another sewer to take the place of the one constructed by the company, as before mentioned.

The railroad company claims that it expended in building the double sewer in question, $56,218.94. The engineers of the Finance Department have appraised the same construction work at $44,649.40. My own engineers have appraised the double sewer so constructed, as having cost $45,709.46. These valuations are for the construction of the sewer at the time when it was constructed, i. e., prior to the six-tracking of the road, when there were but two railroad tracks to be supported instead of the many tracks now existing, with the traffic which they carry. My own engineers estimate that more sewer has been constructed than is necessary, and that they could enter upon the premises and construct all that is necessary in the way of sewer construction at the present time, at a cost of about $40,000.

In connection with two other similar situations this matter has been a subject of negotiation between representatives of my office, of the Corporation Counsel's office and of the Comptroller's office, and of the railroad company. As a result of those conferences, the railroad company has agreed to accept $40,000 as a consideration for turning over to the City of New York the completed section of sewer mentioned, that sum being the amount at which my engineers estimate that they could build all necessary sewer construction between the points in which the sewer built by the railroad, as before stated, now exists. If that offer is accepted, the railroad company has agreed to grant for a nominal consideration, to the City, the perpetual right and easement to maintain the sewer in question, not only so far as relates to the part thereof already mentioned, but including the part still to be constructed across the right of way of the railroad company, with the usual right of entry and re-entry for the purpose of maintaining and keeping in repair the sewer in question or any one that may later be substituted therefor.

Obviously, neither myself nor any other City authority may purchase the sewer so constructed, pursuant to public bidding, and I therefore ask the permission of the Board of Aldermen, pursuant to section 419 of the Greater New York Charter, to order and permit me, as President of the Borough of The Bronx, but upon behalf of the City of New York, to enter into a contract for the purchase, and to purchase such completed section of sewer, at a price not exceeding $40,000, said contract to be approved as to all its forms and provisions by the Corporation Counsel of the City of New York, and the value of the construction to be delivered pursuant to the terms of such contract, to be audited and passed upon as to reasonable value, by the Comptroller of the City of New York.

I believe that it is to the interest of the City that such order and authorization of the Board of Aldermen should be given. If it is not, there will be considerable delay which, if possible, should be avoided, as the sewer involved is the trunk sewer to drain a large territory in the neighborhood of Morris Park, in the Borough of The Bronx, which has recently been sold for development and development of which is retarded because of lack of adequate sewer facilities.

Yours very truly, DOUGLAS MATHEWSON, President of the Borough of The Bronx.

Which was laid over.

Reports of Committee on Public Thoroughfares—

Nos. 1377 and 1508 (G. O. No. 727).

Report of the Committee on Public Thoroughfares in Favor of Adopting Ordinance Changing West End Avenue from Jurisdiction of Borough President's Office to That of the Park Department.

The Committee on Public Thoroughfares, to which was re-referred on April 20, 1915 (Minutes, page 238), the annexed ordinance in favor of changing West End Avenue, from the jurisdiction of the Borough President's office back to the Park Department, respectfully

REPORTS:

That, having again examined the subject, it sees no reason to change its opinion, as expressed in the report of April 20, 1915, and it, therefore, recommends that the said ordinance be adopted.

AN ORDINANCE changing West End Avenue from the jurisdiction of the Borough President's Office back to the Park Department.

Be it Ordained by the Board of Aldermen of The City of New York, as follows:

That the Board of Aldermen of the City of New York, pursuant to the provisions of Section 243a of the Greater New York Charter (Chapter 331, Laws of 1913), subject to the concurrence of the Board of Estimate and Apportionment, do hereby change the jurisdiction and control of West End Ave., north of 70th Street, in the Borough of Manhattan, from the jurisdiction of the President of the Borough of Manhattan to the Department of Parks.

This ordinance to become effective immediately upon the concurrence of the Board of Estimate and Apportionment.

D. M. BEDELL, WILLIAM DUGGAN, EDWARD H. TAYLOR, FRANK DOSTAL, Jr., FRANK MULLEN, JAMES A. MILLIGAN, Committee on Public Thoroughfares.

Which was laid over.

No. 1455 (G. O. No. 728).

Report of the Committee on Public Thoroughfares in Favor of Adopting Ordinance Amending the Code of Ordinances Relative to Motorcycles.

The Committee on Public Thoroughfares, to which was referred on February 23, 1915 (Minutes, page 1199), the annexed ordinance amending the Code of Ordinances relating to motorcycles, respectfully

REPORTS:

That, having examined the subject and held a public hearing thereon, it believes the proposed ordinance to be necessary. There is no regulation of this class of vehicle, and their use is increasing so rapidly that it is high time rules for their guidance were established.

It, therefore, recommends that the said ordinance be adopted.

AN ORDINANCE to amend the Code of Ordinances of The City of New York relating to "Motorcycles."

Be it Ordained by the Board of Aldermen of The City of New York as follows:

Chapter 14 of the Code of Ordinances of The City of New York is hereby amended by the addition of an article to be known as Article 16, as follows:

ARTICLE 16.

Motorcycles.

Section 190. Licenses.
191. License plates.
192. Fee.
193. Equipment.
194. Lamps.
195. Age Limit.
196. Violations.
197 Ordinances repealed.
198 Date of taking effect.

Section 190, *Licenses.*—No motor cycle or motor tricycle, either private or commercial, with or without body attachment, shall be operated on any public highway or place in The City of New York unless the owner shall have first registered the same with the Department of Licenses and received from the Department a certificate or license to operate the same for a period of one year, and containing the name, age and address of the owner, the number of the vehicle and the name of the manufacturer; said certificate shall be in the possession of the operator at all times when the vehicle is in use and shall be produced when required by any member of the police force.

Section 191, *License Plates.*—At the time of issuing the license the Department shall deliver to the applicant two metallic plates seven inches in length by two and one-half inches in width on which shall be placed a distinctive number consisting of numerals one and three-fourth inches in length by three-eighths of an inch in width; such plates shall be placed in a conspicuous rigid position one on the front and the other on the rear of the vehicle.

Section 192, *Fee.*—On receiving such certificate and metallic plates the owner shall pay to the Department a fee of Two dollars.

Section 193, *Equipment.*—Every such vehicle operated in any public place or highway in The City of New York shall be equipped with an adequate brake, kept in good order, and with an adequate bell, horn or similar device for signaling, and, if propelled by an internal combustion engine, with an adequate muffler or silencer through which all exhaust gases from the engine will pass into the atmosphere.

Section 194, *Lamps.*—No such vehicle shall be operated or permitted to stand in any public place or highway of The City of New York between sunset and sunrise unless it shall carry a lamp in front showing a white light visible two hundred feet ahead, and a lamp in the rear showing a red light visible fifty feet behind, the rear lamp to show also a white light on the said metallic plate carried on the rear of such vehicle, in such manner as to render the numerals thereon visible for a distance of fifty feet in the rear.

Section 195, *Age Limit.*—No person under the age of eighteen years shall be permitted to operate any such vehicle in any public place or highway of The City of New York; nor shall any person under the age of ten years be permitted to ride on the rear seat of any such vehicle unless the seat is equipped with an adequate back rest and foot supports; nor shall any person under the age of six years be permitted to ride on any such vehicle, except in a body attachment and accompanied by parent or guardian.

Section 196, *Violations.*—Any person operating such a vehicle in violation of any of the provisions of this ordinance shall upon conviction by any city magistrate, be fined a sum not exceeding Ten dollars, and, in default of payment, committed to prison until paid, not exceeding ten days.

Section 197, *Ordinances Repealed.*—All ordinances and parts of ordinances of The City of New York, inconsistent with or contrary to the provisions of this ordinance, are hereby expressly repealed.

Section 198, *Date of Taking Effect.*—This ordinance shall take effect on the first day of May, one thousand nine hundred and fifteen.

D. M. BEDELL, WILLIAM DUGGAN, EDWARD H. TAYLOR, FRANK DOSTAL, JR., FRANK MULLEN, JAMES A. MILLIGAN, Committee on Public Thoroughfares.

Which was laid over.

No. 1680 (G. O. No. 729).

Report of the Committee on Public Thoroughfares in Favor of Adopting Ordinance to Amend the Code of Ordinances Relative to Licensing Horse-drawn Vehicles.

The Committee on Public Thoroughfares, to which was referred on April 20, 1915 (Minutes, page 245), the annexed ordinance amending the Code of Ordinances relative to vehicles generally, respectfully

REPORTS:

That, having examined the subject, it believes the proposed ordinance to be necessary for the regulation of horse-drawn vehicles. All other vehicles are regulated and under the jurisdiction of the Department of Licenses, and there is no reason, in the opinion of the committee, for an exception.

It, therefore, recommends that the said ordinance be adopted.

AN ORDINANCE to amend the Code of Ordinances of The City of New York, relative to vehicles generally.

Be it ordained by the Board of Aldermen of the City of New York as follows:

Section 1. Chapter fourteen of the Code of Ordinances of The City of New York is hereby amended by the addition of an article to be known as Article 14A, to read as follows:

Article 14A—Vehicles Generally.

Section 175. Exemptions.
Section 176. License required.
Section 177. License fee.

§ 175. *Exemptions. This article shall not apply to or govern any vehicle for the licensing of which provision is made elsewhere in this chapter; nor to any vehicle licensed and numbered pursuant to the provisions of the laws of the State of New York or of any other State or of the ordinances or regulations of any other municipal corporation.*

§ 176. *License required. Subject to the provisions of* § 175 *of this Article every vehicle, of whatever construction, drawn by an animal or animals upon the streets of the City shall be licensed, and when the license is issued a number plate bearing a distinct number assigned to it by the Commissioner of Licenses shall be delivered by the Commissioner to the owner of the vehicle or to the representative of the owner, without other charge than the regular annual license fee, and such number plate shall be displayed upon such part of the vehicle as the Commissioner may designate.*

§ 177. *License fee. The regular annual fee for a license for each vehicle shall be one dollar.*

Section 2. This ordinance shall take effect immediately.

Note—New matter in *italics.*

D. M. BEDELL, WILLIAM DUGGAN, EDWARD H. TAYLOR, FRANK DOSTAL, JR., FRANK MULLEN, JAMES A. MILLIGAN, Committee on Public Thoroughfares.

Which was laid over.

No. 1909.

Report of the Committee on Public Thoroughfares in Favor of Filing Resolution to Permit the Holy Name Society of the Borough of Richmond to Parade on Sunday, September 19, 1915.

The Committee on Public Thoroughfares, to which was referred on June 22, 1915 (Minutes, page 909), the annexed resolution in favor of permitting the Holy Name Society of the Borough of Richmond to parade on Sunday, September 19, 1915, respectfully

REPORTS:

That, having examined the subject, it is of the opinion that the Board has no power to grant special privileges of this character.

It, therefore, recommends that the said resolution be placed on file.

Resolved, That permission be and the same is hereby given to the Holy Name Society of the Borough of Richmond to parade with music on the occasion of an annual church service from St. Peter's Church in New Brighton to the Sacred Heart Convent, Grimes' Hill, on Sunday, September 17, 1915, between the hours of 2 and 4 o'clock P. M., such permission to continue only for the day and time set forth.

D. M. BEDELL, WILLIAM DUGGAN, EDWARD H. TAYLOR, FRANK DOSTAL, JR., FRANK MULLEN, JAMES A. MILLIGAN, Committee on Public Thoroughfares.

Which report was accepted.

No. 1919.

Report of the Committee on Rules in Favor of Appointing a Special Committee to Confer with the Public Service Commission Relative to Transfers on Surface Car Lines.

The Committee on Rules, to which was referred on June 22, 1915 (Minutes, page 914), the annexed resolution in favor of appointing a Special Committee to confer with the Public Service Commission relative to transfers on surface car lines, respectfully

REPORTS:

That, having examined the subject, it believes the appointment of such a committee will result in a benefit to the public, and it recommends as the members thereof, Alderman Pouker, chairman, and Aldermen Eagan, Schmelzel and C. J. Moore.

In view of the fact that this City has a population of over 5,000,000, all of whom more or less have occasion to use the surface cars of The City of New York, some time or other, and that there is a lack of co-operation between the car transit companies to accommodate passengers with transfers from one car to another for the convenience of their passengers, and that the issuing of transfers from one car to another is of great convenience and importance to the public; be it therefore

Resolved, That a committee from this Board of Aldermen be appointed for the purpose of conferring with the Public Service Commissioners of this Department, to have an order issued by them to the surface car companies to issue transfers from and to all intersecting lines, and to give such further relief to the traveling public of the City of New York that they may deem just and proper.

HENRY H. CURRAN, C. AUGUSTUS POST, FRANK J. DOTZLER, F. H. WILMOT, JOHN DIEMER, Committee on Rules.

Which report was accepted.

Report of Committee on Education—

No. 1895.

Report of the Committee on Education in Favor of Adopting Resolution in Relation to School Facilities in the Borough of The Bronx.

The Committee on Education, to whom was referred on June 22, 1915 (Minutes, page 823), the annexed preamble and resolution relative to school accommodations in the Borough of The Bronx, respectfully

REPORTS:

That, having examined the subject, it believes the proposed resolution to be meritorious, and it therefore recommends that the said resolution be adopted.

WILLIAM DUGGAN, B. E. DONNELLY, JAMES R. FERGUSON, JACOB BARTSCHERER, ABRAHAM M. LEVY, W. F. QUINN, Committee on Education.

Which report was accepted.

At this point the Vice-Chairman called Alderman Colne to the chair.

ORDINANCES AND RESOLUTIONS RESUMED.

No. 1954.

Resolution Appointing a Committee to Acquaint His Honor the Mayor with Date of Summer Recess of the Board of Aldermen.

By Aldermen Curran and Dowling—

Resolved, That a committee of two be appointed to inform his Honor the Mayor that the Board of Aldermen will adjourn for the summer recess on Tuesday, July 6, 1915, to resume its labors on Tuesday, September 21, 1915.

Which was adopted.

The chair appointed as such committee Aldermen Dotzler and Moran.

No. 1955.

Resolution Granting Permission to Storekeepers, Hucksters and Peddlers to Stand on Certain Sidewalks and Carriageways Near the Curb on Streets and Thoroughfares of The City of New York.

By Alderman Curran—

Resolved, That permission be and the same is hereby given to storekeepers, hucksters and peddlers to stand on the sidewalk and in the carriageway near the curb, on the streets and thoroughfares of the City of New York, excepting on such streets and thoroughfares on which all encroachments have been removed by direction of the Board of Estimate and Apportionment, for the sale of their wares on account of the Jewish holidays, with the consent of the property owners and the Commissioner of Licenses, provided a free passageway be kept on the sidewalk for all pedestrians and on the carriageway for all vehicles; such permission to continue only from September 1st to September 30th, inclusive, and the ordinance or ordinances conflicting with the foregoing provisions are hereby suspended for the period of time above mentioned.

The Chairman pro tem put the question whether the Board would agree to adopt said resolution.

Which was unanimously decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connolly, President Mathewson, President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—54.

At this point the President resumed the chair.

COMMUNICATIONS FROM CITY, COUNTY AND BOROUGH OFFICERS RESUMED.

The President laid before the Board the following communication from the Commissioner of Public Charities:

No. 1956—(S. O. No. 234).

Department of Public Charities—Request for Special Revenue Bonds to Meet Anticipated Deficiencies in Appropriations for the Year 1915.

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 three hundred and ninety-seven thousand eight hundred and thirty-two dollars and sixty-nine cents ($397,832.69), the proceeds whereof to be used by the Commissioner of Public Charities for the purpose of meeting anticipated deficiencies in appropriations allowed to his department for the year 1915, as follows:

Code.	Title.	Amount.
1992	Food Supplies	$100,000 00
1993	Forage and Veterinary Supplies, Non-Institutional	452 71
1994	Forage and Veterinary Supplies, Institutional	6,500 00
1996	Fuel Supplies, Institutional	49,500 00
2001	Laundry, Cleaning and Disinfecting Supplies	5,000 00
2005	Motor Vehicle Supplies, Administration	2,000 00
2006	Motor Vehicle Supplies, Institutional	6,800 00
2008	General Plant Supplies, Transportation	820 00
2010	Household Equipment	27,650 00
2011	Medical and Surgical Equipment	3,000 00
2012	Live Stock	800 00
2013	Motorless Vehicles and Equipment	1,000 00
2016	Wearing Apparel	42,500 00
2017	Educational and Recreational Equipment	500 00
2018	General Plant Equipment, Institutional	10,000 00
2018	General Plant Equipment, Institutional (for screens)	33,750 00
2021	Building Materials	7,000 00
2022	General Plant Materials	17,000 00
2023	General Repairs	40,000 00
2026	Shoeing and Boarding Horses, including Veterinary Service, Institutional	1,200 00
2028	Carfare, Non-Institutional	439 98
2030	Transportation of Paupers	3,000 00
2031	Communication	2,500 00
2034	Motor Vehicle Repairs, Administration	500 00
2035	Motor Vehicle Repairs, Institutional	420 00
2039	Advertising for Deserters	500 00
2041	Clothing for Epileptics, Craig Colony	500 00
2042	State Hospital for Incipient Tuberculosis	2,500 00
2043	Donations to G. A. R. Veterans	25,000 00
2044	Donations to Spanish War Veterans	7,000 00
		$397,832 69

Department of Public Charities of The City of New York, Municipal Building, Tenth Floor, June 25, 1915.

Re Revenue Bonds for Deficiencies in the Appropriations for the Year 1915.

To the Honorable the Board of Aldermen:

Gentlemen—I would respectfully request that Special Revenue Bonds be issued as provided in subdivision 8 of section 188 of the Greater New York Charter, to meet the anticipated deficiencies in the appropriations allowed to this Department for the year 1915, as specified below:

Code.	Title.	Amount.
1992	Food Suppiles	$100,000 00
1993	Forage and Veterinary Supplies, Non-Institutional	452 71
1994	Forage and Veterinary Supplies, Institutional	6,500 00
1996	Fuel Supplies, Institutional	49,500 00
2001	Laundry, Cleaning and Disinfecting Supplies	5,000 00
2005	Motor Vehicle Supplies, Administration	2,000 00
2006	Motor Vehicle Supplies, Institutional	6,800 00
2008	General Plant Supplies, Transportation	820 00
2010	Household Equipment	27,650 00
2011	Medical and Surgical Equipment	3,000 00
2012	Live Stock	800 00
2013	Motorless Vehicles and Equipment	1,000 00
2016	Wearing Apparel	42,500 00
2017	Educational and Recreational Equipment	500 00
2018	General Plant Equipment, Institutional	10,000 00
2018	General Plant Equipment, Institutional (for screens)	33,750 00
2021	Building Materials	7,000 00
2022	General Plant Materials	17,000 00
2023	General Repairs	40,000 00
2026	Shoeing and Boarding Horses, including Veterinary Service, Institutional	1,200 00
2028	Carfare, Non-Institutional	439 98
2030	Transportation of Paupers	3,000 00
2031	Communication	2,500 00
2034	Motor Vehicle Repairs, Administration	500 00
2035	Motor Vehicle Repairs, Institutional	420 00
2039	Advertising for Deserters	500 00
2041	Clothing for Epileptics, Craig Colony	500 00
2042	State Hospital for Incipient Tuberculosis	2,500 00
2043	Donations to G. A. R. Veterans	25,000 00
2044	Donations to Spanish War Veterans	7,000 00
		$397,832 69

The average daily census for the first five months of 1915 is 19,118, or 2,383 more than the average daily census for the year of 1914, and 2,405 more than the estimated census for 1915 used when our estimate for 1915 expense was submitted last year.

In spite of the strictest economy, it has been known ever since the Budget was approved last October that the appropriations for this Department would not be sufficient to pay the necessary expenses for the year 1915.

If this money is not authorized, it will be impossible to provide the poor with the necessities of life, as required by the Poor Law. This would be a most embarassing situation and would undoubtedly bring severe criticism upon the City.

I trust that you will see the gravity of the situation and promptly authorize the necessary funds, as many of these codes are completely exhausted. For example, at this moment, there is a serious need for mattresses for beds for the sick poor in our hospitals, requisitions for which have been pending some time. Respectfully yours,

JOHN A. KINGSBURY, Commissioner.

Which was laid over.

SPECIAL ORDERS.

No. 212—Int. No. 1777.

Report of the Committee on Finance in Favor of Adopting Resolution for $87,600 Special Revenue Bonds to Cover Cost of Making Formal Promotions of Teachers, Department of Education, from Eligible Lists.

The Committee on Finance, to which was referred on May 25, 1915 (Minutes, page 546), the annexed request from the Board of Education for $87,600 Special Revenue Bonds to cover cost of making formal promotions from eligible lists, respectfully

REPORTS:

That owing to certain litigation there have been a number of teachers during the years 1913 and 1914, who have been practically promoted, but have not received the higher salaries to which they were legally and morally entitled. This litigation having been decided, it becomes necessary to provide for their increases, the budget makers having made no provision for this payment, awaiting legal decision. It seems to the Committee that it is imperative that these funds be furnished, and it, therefore, recommends that the accompanying resolution be 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 eighty-seven thousand six hundred dollars ($87,600), the proceeds whereof to be used by the Board of Education for the purpose of providing means to cover the cost of making formal promotions from eligible lists to grades of the last two years in day elementary schools for the period from September 10 to December 31, 1915.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly; President Pounds; President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—64.

Negative—Alderman Quinn—1.

No. 213—Int. No. 1781.

Report of the Committee on Finance in Favor of Adopting Resolution for $60,000 Special Revenue Bonds for Equipment of Doors and Windows of Institutions Under Department of Public Charities with Fly Screens.

The Committee on Finance, to which was referred on May 25, 1915 (Minutes page 549), the annexed request from the Commissioner of Public Charities for $60,000 Special Revenue Bonds to equip all doors and windows of institutions in his department with fly screens, respectfully

REPORTS:

That the Commissioner appeared before the Committee and made a special appeal for this allowance, stating that it was one of the most essential methods of caring for the sick and infirm. He assured the Committee that a most careful estimate had been made of the needs of the department in this direction, and that the sum asked for was absolutely needed if all institutions were to be equipped. The Committee recognizes the necessity for this protection in institutions, and it, therefore, recommends that the accompanying resolution be 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 sixty thousand dollars ($60,000), the proceeds whereof to be used by the Department of Public Charities for the purpose of equipping all doors and windows in the institutions under jurisdiction of said department with fly screens.

All obligations incurred hereunder to be contracted for on or before December 31, 1915.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

Department of Public Charities of The City of New York, Municipal Building, Tenth Floor, May 12, 1915.

Re Special Revenue Bonds for Fly Screens, Various Buildings of this Department.

To the Honorable Board of Aldermen:

Gentlemen—The undersigned Commissioner would respectfully request that Special Revenue Bonds be issued to the amount of sixty thousand dollars ($60,000) to provide the funds necessary to equip all the doors and windows of the buildings of this Department (which are not at present screened) with fly screens.

The State Board of Charities has emphatically pointed out repeatedly, and others who have visited the institutions have frequently criticised this Department for lack of screens on the windows and doors of our different institutions.

The absence of screens causes a condition far from sanitary and adds discomfort to the patients and inmates.

To correct such conditions, I make this request for Special Revenue Bonds, and trust that you will give such request your prompt and favorable consideration. Yours respectfully, JOHN A. KINGSBURY, Commissioner.

Which, on motion of Alderman Curran, was ordered on file.

No. 214—Int. No. 1787.

Report of the Committee on Finance in Favor of Adopting Resolution for $2,500 Special Revenue Bonds for Navigation Lights and Other Equipment on Bridges.

The Committee on Finance, to which was referred on May 25, 1915 (Minutes, page 552) the annexed request from the Commissioner of Bridges for $2,500 Special Revenue Bonds for the purchase of navigation lights and equipment for bridges, respectfully

REPORTS:

That these improvements were ordered by the federal authorities having jurisdiction, and must be procured. A statement showing the estimated cost in detail is hereto attached.

The Committee recommends that the accompanying resolution be 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 Bridges for the purpose of providing means for the purchase and installation of navigation lights and other equipment on bridges ordered by the Department of Commerce of the United States.

All obligations incurred hereunder to be contracted for on or before December 31, 1915.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

Department of Bridges, City of New York, Municipal Building, Manhattan, N. Y., May 17, 1915.

To the Honorable the Board of Aldermen of The City of New York:

Gentlemen—The Lighthouse Service of the Department of Commerce of the United States has directed this department to install navigation lights in acocrdance with the requirements of that department on twenty-four of the bridges under the jurisdiction of this department. The laws of the United States provide that such navigation lights shall be maintained on bridges over navigable waters as may be required by the Commissioner of Lighthouses.

The estimated cost of the lights and the equipment for these twenty-four bridges is $2,500. The labor for installing the lights, wiring and other equipment will be done by department employees.

No provision has been made in the budget for the year 1915 for the purchase of these lights and equipment, and I beg to request your Honorable Board, in acordance with the provisions of subdivision 8 of section 188 of the Greater New York Charter, to recommend to the Board of Estimate and Apportionment that the Comptroller be authorized to issue special revenue bonds to the amount of $2,500, the proceeds thereof to be used for the purchase of navigation lights and equipment for bridges under the jurisdiction of this department. Yours truly,

F. J. H. KRACKE, Commissioner.

May 18, 1915.

Mr. J. T. YATES, *Inspector, Lighthouse Service, Department of Commerce,* Tompkinsville, N. Y.:

Dear Sir: Referring to the installation of navigation lights on certain of the bridges under the jurisdiction of this Department as indicated by you on blue prints furnished by this Department, I beg to state that an estimate of the cost for the necessary lights and equipment for twenty-four bridges, exclusive of labor, is $2,500. No funds have been provided in the City Budget for the year 1915 for the purchase of these lights and equipment, and I have requested the Board of Aldermen of the City to recommend the issue of special revenue bonds for the purchase of the necessary supplies. A copy of my letter dated May 17, 1915, to the Board of Aldermen is enclosed.

The following is a list of the twenty-four bridges above mentioned:

Willis Avenue Bridge over Harlem River	$135 50
Third Avenue Bridge over Harlem River	120 30
Madison Avenue Bridge over Harlem River	139 50
145th Street Bridge over Harlem River	185 30
Macomb's Dam Bridge over Harlem River	151 50
Washington Bridge over Harlem River	111 20
University Heights Bridge over Harlem River	135 50
Ship Canal Bridge over Harlem River	102 00
Westchester Avenue Bridge over Bronx River	51 00
City Island Bridge over Pelham Bay Narrows	102 00
Eastchester Bridge over Eastchester Creek	116 00
Hamilton Avenue Bridge over Gowanus Canal	97 00
Ninth Street Bridge over Gowanus Canal	97 00
Third Street Bridge over Gowanus Canal	97 00
Carroll Street Bridge over Gowanus Canal	48 00
Union Street Bridge over Gowanus Canal	97 00
Metropolitan Avenue Bridge over English Kills	81 00
Harway Avenue Bridge over Coney Island Creek	72 00
Vernon Avenue Bridge over Newtown Creek	127 00
Greenpoint Avenue Bridge over Newtown Creek	118 00
Meeker Avenue Bridge over Newtown Creek	118 00
Grand Street Bridge over Newtown Creek	118 00
Strong's Causeway Bridge over Flushing River	56 00
Little Neck Bridge over Alley Creek	56 00
	$2,531 80

As soon as the funds are available the necessary material will be purchased for installing the navigation lights on these twenty-four bridges and the lights will be put up by Department labor.

In reference to the navigation lights required on the Flushing Bridge over Flushing River, I would state that some of the material has already been purchased for these lights, and it is expected that the lights on this bridge will be installed in a short time. Yours truly,

F. J. H. KRACKE, Commissioner.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Quinn, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly; President Pounds; President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—65.

No. 215—Int. No. 1800.

Report of the Committee on Finance in Favor of Adopting Resolution for $1,250 Special Revenue Bonds for Purchase of an Automobile for Use of the Topographical Bureau Under the President of the Borough of Queens.

The Committee on Finance, to which was referred on May 25, 1915 (Minutes, page 564), the annexed request of the Acting President of the Borough of Queens for $1,250 special revenue bonds for purchase of an automobile for use of the Topographical Bureau of his department, respectfully

REPORTS:

That the machine formerly used was destroyed by an accident. The President appeared before the Committee and assured them that a machine was needed to cover the large area under survey.

The Committee recommends that the accompanying resolution be 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 one thousand two hundred and fifty dollars ($1,250), the proceeds whereof to be used by the President of the Borough of Queens for the purpose of purchasing an automobile for use of the Topographical Bureau in said borough.

All obligations incurred hereunder to be contracted for on or before December 31, 1915.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

The City of New York, Offices Commissioner of Public Works of the Borough of Queens, Long Island City, May 24, 1915.

To the Honorable, The Board of Aldermen of The City of New York:

Gentlemen—Your approval is hereby requested, in accordance with the provisions of Subdivision 8 of Section 188 of the Charter, of the authorization of an issue of special revenue bonds, amounting to $1,250, to provide funds for the purchase of an automobile for the use of the Topographical Bureau of this office.

There has been assigned to that bureau for the past two years a five-passenger touring car which has been in constant use by the field force in the various parts of the Borough.

On May 15th, while in the repair shops undergoing an overhauling, the car took fire and was practically destroyed. It is essential that the car be replaced as soon as possible and it is the judgment of the experts who have examined the car that repairs cannot be made with any assurance that it is practical to do so.

I therefore request that your Board pass upon the matter as soon as possible.

Yours very truly,

JAMES A. DAYTON, Commissioner of Public Works, Borough of Queens.

President Connolly moved that said resolution be amended by striking out the words "an automobile" and inserting in lieu thereof the words "two automobiles."

Which motion was adopted.

The President then put the question whether the Board would agree to accept said report and adopt said resolution, as amended.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly; President Pounds; President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—64.

Negative—Alderman Quinn—1.

No. 216—Int. No. 1809.

Report of the Committee on Finance in Favor of Adopting Resolution for $60,000 Special Revenue Bonds to Meet Deficits in Certain Accounts in the 1915 Budget of Bellevue and Allied Hospitals.

The Committee on Finance, to which was referred on June 8, 1915 (Minutes, page 579), a request from the Trustees of Bellevue and Allied Hospitals for $157,095.18 special revenue bonds to meet anticipated deficits in various appropriations, respectfully

REPORTS:

That, having examined the subject, it believes that some part of this request should be allowed at this time, while the remainder may wait until a more accurate estimate may be made at a later period. The questions of food, fuel and repairs seem to be those which should be covered now, and the Committee, therefore, recommends that the accompanying resolution be 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 sixty thousand dollars ($60.000), the proceeds whereof to be used by the Trustees of Bellevue and Allied Hospitals for the purpose of meeting deficits in 1915 accounts, as follows:

Code 2073	Food Supplies	$40,000 00
Code 2075	Fuel	9,000 00
Code 2089	General Repairs	11,000 00
		$60,000 00

All obligations incurred hereunder to be contracted for on or before December 31, 1915.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly; President Pounds; President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—64.

Negative—Alderman Quinn—1.

No. 217—Int. No. 1817.

Report of the Committee on Finance in Favor of Adopting Resolution for $250 Special Revenue Bonds for Deficiency in 1915 Account for Office Supplies, Surrogates, New York County.

The Committee on Finance, to which was referred on June 8, 1915 (Minutes, page 591), the annexed request of the Surrogates of the County of New York for $500 special revenue bonds to cover anticipated deficit in appropriation for office supplies, respectfully

REPORTS:

That, having examined the subject, it believes a portion of the requested allowance to be necessary. It, therefore, recommends that the accompanying resolution be 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 hundred and fifty dollars ($250), the proceeds whereof to be used by the Surrogates of New York County for the purpose of meeting deficit in Code No. 3208, 1915, office equipment. All obligations incurred hereunder to be contracted for on or before December 31, 1915.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

Chambers of the Surrogate's Court, County of New York, New York, June 4, 1915.

To the Honorable, The Board of Aldermen, New York City:

Gentlemen—I desire respectfully to call your attention to the fact that the appropriation of $779 for Office Equipment (Code 3208), made by the Board of Estimate and Apportionment for this office for the current year, is very nearly exhausted, and to request the Board to recommend the issuance of revenue bonds to the amount of $500 to supply the deficiency.

We have transmitted to the Finance Department for payment out of this fund vouchers amounting to $495.81, and there are open market orders outstanding to the further amount of $220, or $715.81 in all, leaving an unencumbered balance of only $63.19. The amounts are itemized as follows:

Vouchered—		
Law books for the Library and for the Judges' private chambers		$249 18
Furniture, including rugs, ventilators, typewriter chair, screen, copy-holders, etc.		144 10
Stencils (rubber stamps, dating machine, numbering stamps, etc.)		48 55
Typewriter (exchanged)		53 98
		$495 81
Ordered, But Not Vouchered—		
Legislative documents, Sessions 1914-15		$50 00
Advance sheets and Sessions Laws		7 50
Weekly index of Constitutional Convention		50 00
File Boards (for use in Record Room)		22 50
Twenty-five copies Chase's Code, 1915		90 00
		$220 00
Total, expended and ordered		$715 81

Our necessary expenditures for the remainder of the year, so far as they can be foreseen, are as follows:

Subscription to Northeastern Reporter, New York Supplement, New York Supplement Digest, and New York Annotated Digest	$78 00
United States Postal Guide	3 50
Ruling cases (about 10 vols. to be issued during year, at $7.50 per volume)	75 00
Books ordered verbally from Fallon Law Book Company	33 41
Corpus Juris (about 6 vols. to be issued during year, at $7.50 per volume)	45 00
Rebinding law books (estimated)	100 00
Stencils (estimated)	50 00
Furniture (estimated)	100 00
And for unforeseen expenses	78 28
	$563 19
Against which will be applied our unencumbered balance of	63 19
Leaving revenue bonds requested	$500 00

I therefore respectfully request the Board to recommend to the Board of Estimate and Apportionment the issuance of $500 in revenue bonds, to be placed to the credit of Office Equipment, Surrogates' Office, New York County, Code 3208, 1915.

Respectfully yours, JOHN P. COHALAN, Surrogate.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly; President Pounds; President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—64.

Negative—Alderman Quinn—1.

No. 218—Int. No. 1831.

Report of the Committee on Finance in Favor of Adopting Resolution for $12,981 Special Revenue Bonds for Additional Keepers and Temporary Engineers and Stokers for Vacation Periods in Department of Correction.

The Committee on Finance, to which was referred on June 8, 1915 (Minutes, page 604), the annexed request from the Commissioner of Correction for $12,891 Special Revenue Bonds for additional Keepers and for employment of temporary Engineers and Stokers for vacation periods, respectfully

REPORTS:

That, having examined the subject, it believes the proposed allowance to be necessary. The details are set forth fully in the letter of application hereto attached.

The Committee recommends that the accompanying resolution be 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 twelve thousand nine hundred and eighty-one dollars ($12,981), the proceeds whereof to be used by the Department of Correction for the purpose of paying salaries of additional Keepers and paying wages of temporary Engineers and Stokers during vacation period, as follows:

Code 2638½		$225 00
Code 2640	$1,600 00	
Code 2641	4,800 00	
Code 2642	2,400 00	
Code 2643	3,200 00	
		12,000 00
Code 2650		504 00
Code 2650½		252 00
		$12,981 00

—all obligations incurred hereunder to be contracted for on or before December 31, 1915.

HENRY H. CURRAN, JOHN DIEMAR, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

Department of Correction of The City of New York, Commissioner's Office, Municipal Building, New York, May 28, 1915.

Hon. GEORGE MCANENY, *President of the Board of Aldermen of The City of New York:*

Sir—Pursuant to the provisions of subdivision 8, section 188 of the Charter, I respectfully ask that your Honorable Board will request the Board of Estimate and Apportionment to authorize the issue of Special Revenue Bonds to the amount of twelve thousand, nine hundred eighty-one dollars ($12,981), for the use of the Department of Correction during the current year, for the reasons and for the requirements as enumerated in the following:

The estimated average population for the four months ending April 30, 1915, has been 7,062. The Budget appropriations were based upon an estimate of 5,000. This application, in the amount of $12,981 is for personal service. The continuance of the temporary keepers already allowed by the authorization of Special Revenue Bonds up to June 30, 1915, is requested for the balance of the year, as it is contemplated that the census for the last half of this year, from present indications, will be greater than during the first part of the year.

The employment of temporary engineers and stokers for vacation periods is made necessary for reasons as set forth hereinafter.

This request is constituted as follows:

Code No.			
2638½	Personal Service, Ferries, Temporary		$225 00
2640	Personal Service, Prison Service	$1,600 00	
2641	Personal Service, Prison Service	4,800 00	
2642	Personal Service, Prison Service	2,400 00	
2643	Personal Service, Prison Service	3,200 00	
			12,000 00
2650	Personal Service, Prison Service		504 00
2650½	Personal Service, Ferries, Temporary		252 00
			$12,981 00

Code Nos. 2640-2643, Personal Service, Prison Service, $12,000.

Thirty additional keepers have already been allowed in the department up to June 30th, by the authorization of Revenue Bonds. This provision of $12,000 is for the continuance, therefore, of thirty keepers for six months at annual salaries of $800. It will be necessary, in view of the present large census and the estimated census, to continue these keepers for the balance of the year.

Because of absences on account of sickness the department has always suffered by a shortage of keepers not allowed or provided in the budget. During the vacation period, when the activities of the department are at their height, due to the fact that agricultural and outdoor development work, and new construction and repair work is undertaken in the spring and summer months, the absence of keepers is particularly felt. This will be more the case than ever this year, owing to the policy which has been established of utilizing prison labor for construction and repair work to a far greater extent than has been customary.

It is also contemplated that additional temporary accommodations will have to be provided for the expected abnormal increase of population during the coming fall and winter months. The normal accommodation capacity of the department is already far exceeded, and it will require a considerable amount of temporary provision for any larger census, and this temporary provision will, to a large degree, be undertaken with inmate labor.

Code No. 2638½, Salaries, Temporary Employees, Ferries.

Two Engineers for a total of eight weeks, at $1,350 per annum $225 00

Under the present operating schedule of the Steamboat Bureau, it is impossible to afford any vacation leave to any of the engineers until extraneous relief has been provided. In former years the department was enabled to lay up one of its boats for a short period, but last year the boat "Massassoit" was permanently relinquished, reducing the steamboats operating from three to two. There are four engineers in the regular service who are entitled each to a vacation, which makes a total of eight weeks for engineers' vacations.

Code No. 2650, Wages, Temporary Employees, Prison Service.

Four Stokers for a total of 168 days, at $3 per diem $504 00

It has been the custom hitherto to assign orderlies to perform the night assignment of stokers during the vacation period. This, however, is extra-legal, as there is a Police Department regulation which prescribes that a duly licensed Stoker must be assigned to the care of a high-pressure steam plant. The department has twelve stokers regularly employed on a per diem basis. To provide each stoker with a two-weeks' vacation, it will be necessary to secure four additional temporary stokers for a total period of 168 days.

Code No. 2650½, Wages, Temporary Employees, Ferries.

Two Stokers for a total of 84 days, at $3 per diem $252 00

No temporary employees for vacation relief are provided in the Budget. In order that the Marine Stokers regularly in the employ of the department can be extended the usual and prescribed vacation leave, it is necessary that extraneous relief be provided.

Six Stokers are regularly employed in the Steamboat Bureau, and these Stokers are entitled each to a two weeks' vacation. Hence the additional temporary employment of two stokers for a total period of 12 weeks is necessitated. At the prevailing per diem rate of $3, this will make a total of $252.

Respectfully, KATHARINE BEMENT DAVIS, Commissioner.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly; President Pounds; President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—64.

Negative—Alderman Quinn—1.

No. 219—Int. No. 1845.

Report of the Committee on Finance in Favor of Adopting Resolution for $3,600 Special Revenue Bonds for Restoration of a Covered Drain in Steinway, Under the Jurisdiction of the President of the Borough of Queens.

The Committee on Finance to which was referred on June 15, 1915 (Minutes, page 652), the annexed request of the President of the Borough of Queens for $3,600 Special Revenue Bonds for the restoration of a covered drain in Steinway, respectfully

REPORTS:

That having examined the subject, it believes the proposed improvement to be necessary. The Board of Health has several times called upon the Borough President to remedy this condition, and the residents of this neighborhood are also insistent about it. The President assured the Committee that in his opinion this cost could not be made a local assessment. The Committee recommends that the accompanying resolution be 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 Three thousand six hundred dollars ($3,600), the proceeds whereof to be used by the President of the Borough of Queens for the purpose of providing means for the restoration of a covered drain at Winthrop Avenue, Steinway. All obligations incurred hereunder to be contracted for on or before December 31, 1915.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

The City of New York, Office of the President of the Borough of Queens, Long Island City, June 10, 1915.

To the Board of Aldermen, City of New York:

Gentlemen—This office is in receipt of a communication from the Department of Health, dated April 17, 1915, as follows:

"Department of Health, City of New York, Sanitary Bureau, New York, April 17, 1915.

"*Hon.* MAURICE E. CONNOLLY, *President, Borough of Queens,* Borough Hall, Long Island City, N. Y.:

"Dear Sir—I would respectfully beg to again call your attention to the very deplorable conditions which exist in respect to the open sewer trench at Winthrop Ave., Steinway.

"The sewage of a large section is carried in an open trench by a very winding course (the sides and bottom of this Creek being filthy, foul, offensive and mosquito breeding), to an arm of Bowery Bay.

"There would seem to be no justification for the continuance of this crude, insanitary and most unhealthful conduit of sewage material. Sewage in its crudest form is to be found carried in the current and the smell at seasonable times is exceedingly offensive and a source of intense complaint on the part of the neighborhood.

"I would respectfully urge that you seek an appropriation for the piping of this sewage in a most direct line, eliminating the winding, rounding course of the present creek.

"The present proposition is a positve public nuisance and steps are being taken to proclaim it such officially by the Department of Health.

"It is confidently to be hoped that an early redress may be given this neighborhood in the immediate future, and that this serious cause of mosquito breeding and unhealthfulness may be promptly eliminated. Very respectfully yours,

"(Sgd.) JOHN H. BARRY, M. D., Asst. Sanitary Superintendent."

On May 11, 1915, the following was also received from the Department of Health:

"Department of Health, Sanitary Bureau, New York, May 11, 1915.

"*Hon.* JOSEPH FLANAGAN, *Secy. to the Borough President,* Borough Hall, Long Island City, N. Y.:

"Dear Sir—I would respectfully beg to recall your attention to the reference made to you on April 22nd in the Winthrop Avenue sewer matter, and beg to interest you in the gravity of the situation hereat.

"The condition is best explained in the report of our inspector in charge, attached hereto, and the reinspection of the 8th of May indicates that so far at least nothing has been done to remedy this flagrant condition.

"It would seem to be a proposition calling urgently for boxing on the lines of the Leavitt Park sewer or the Maurice Avenue open ditch, only if possible a very much more striking situation than either.

"A report was promised on the Sewer Commissioner's findings in the matter on the occasion of our recent reference to you, which thus far has not been received, and which I eagerly await with interest. Very respectfully yours,

"(Signed) JOHN H. BARRY, M. D., Assistant Sanitary Superintendent."

"April 21, 1915.

"The Winthrop Avenue sewer, beginning at a point about 35 feet west of Ninth Avenue, extending west about 300 feet to a point of discharge into the southerly branch of Steinway Creek, consists of an open distorted trench which is at present obstructed in numerous places by tin cans and other debris, causing the fecal matter to collect in almost its entire length, from which foul odors arise.

"The discharge of said sewer takes place at a dead end of the creek, and the sewage remains in the inactive water of the gully at this point, and the solid matter remains on the mud bottom when the tide recedes, causing a very offensive condition and from a fly standpoint a dangerous one.

"There is an old wooded enclosed box drain along the northerly side of said trench which evidently was used during some time in the past to carry the sewage to Steinway Creek, but same at present is filled with obstructive materials.

"The box drain did not improve conditions any, as the outlet was virtually the same as that of present open trench.

"The condition is a very insanitary one, and a proper outlet should be sought out and provided for said sewer.

"Note—At low water the creek at point of sewer outlet is without water and the sewage is discharged onto mud flat."

The matter has been under consideration of the Bureau of Sewers of this office for some time, but owing to a lack of funds it has been impossible to do more than to keep the drain open. The drain is the outlet for the Winthrop Avenue sewer, which serves a considerable portion of the Steinway section.

Originally there was a covered or box drain laid across property now occupied by the Astoria Veneer Mills and into deep water. Evidences still remain of the existence of this drain. It is now in disuse and raw sewage from the outlet finds its way through the meadows by means of a small winding creek. The only remedy which can be suggested is to restore this covered drain to deep water in the creek in a direct line from the present outlet.

An investigation has been made by the engineers of this Bureau and it is estimated that $3,600 will be required to do the work.

I therefore request that your Board approve of an issue of special revenue bonds in the sum of thirty-six hundred dollars ($3,600), to provide for the restoration of the covered drain. Very truly yours,

JAMES A. DAYTON, Commissioner of Public Works, and Acting President of the Borough of Queens.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Quinn, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly; President Pounds; President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—65.

No. 220—Int. No. 1847.

Report of the Committee on Finance in Favor of Adopting Resolution for $500 Special Revenue Bonds to Replenish Account 3303-B, Household Equipment, 1915, in the Office of the Sheriff of Bronx County.

The Committee on Finance to which was referred on June 15, 1915 (Minutes, page 654), the annexed request of the Sheriff of Bronx County for $500 Special Revenue Bonds to replenish Account 3303-B, Household Equipment for 1915, respectfully

REPORTS:

That having examined the subject, it believes the proposed allowance to be necessary. The details are set forth in the letter of application.

It, therefore, recommends that the accompanying resolution be 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 Five hundred dollars ($500), the proceeds whereof to be used by the Sheriff of Bronx County for the purpose of replenishing account No. 3303-B, Household Equipment, Year 1915.

All obligations incurred hereunder to be contracted for on or before December 31, 1915.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

Sheriff's Office, Bronx County, Bergen Building, Tremont and Arthur Avenues, New York, June 10th, 1915.

Hon. GEORGE MCANENY, *President, Board of Aldermen,* City Hall, New York:

My Dear Sir—I herewith most respectfully request your honorable Board to grant me a special revenue bond issue for $500, to replenish Account 3303-B, Household Equipment, for the balance of the year 1915.

An amount of $300 was provided for this account in the 1915 Budget, but said amount has been exhausted, and the additional $500 requested above is for the purpose of purchasing blankets, beds, cots, towling, ticking, brushes, brooms, pails, ash cans, garbage cans and all sorts of kitchen utensils for the balance of this year.

As I am urgently in need of beds, cots, etc., at Bronx County Jail, I sincerely trust that your Board will grant me this request. Very truly yours,

JAMES F. O'BRIEN, Sheriff, Bronx County.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly; President Pounds; President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—64.

Negative—Alderman Quinn—1.

No. 221—Int. No. 1848.

Report of the Committee on Finance in Favor of Adopting Resolution for $490 Special Revenue Bonds to Replenish Account 3301, Wages, Temporary Employees, 1915, in the Office of the Sheriff of Bronx County.

The Committee on Finance, to which was referred on June 15, 1915 (Minutes, page 654), the annexed request of the Sheriff of Bronx County, for $490 Special Revenue Bonds to replenish Account 3301, Wages, Temporary Employees, 1915, respectfully

REPORTS:

That, having examined the subject, it believes the proposed allowance to be necessary. This is to pay for visits of a doctor to the jail before a physician was officially appointed.

The Committee recommends that the accompanying resolution be 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 four hundred and ninety dollars ($490), the proceeds whereof to be used by the Sheriff of Bronx County, for the purpose of replenishing Account 3301, Wages, Temporary Employees, 1915, for payment of services of Physician at Bronx County Jail, from February 1 to May 6, 1915.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

Sheriff's Office, Bronx County, Bergen Building, Tremont and Arthur Avenues, New York, June 10th, 1915.

Hon. GEORGE MCANENY, *President, Board of Aldermen,* City Hall, N. Y.:

My Dear Sir—I herewith most respectfully request your Honorable Board to grant me a special revenue bond issue for $490 to replenish Account 3301, Wages, Temporary Employees, 1915.

My reason for making this request is due to the fact that I have had a bill rendered by Dr. Dodin for the above amount for professional services, physician, Bronx County Jail, from February 1st, 1915, to May 6th, 1915, and for which no provision has been made.

As Dr. Dodin has rendered his services during the above mentioned period, I sincerely trust that you will grant me the above amount in order that I may be able to pay him.

Thanking you in advance, I am, very truly yours,

JAMES F. O'BRIEN, Sheriff, Bronx County.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly; President Pounds; President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—64.

Negative—Alderman Quinn—1.

No. 222—Int. No. 1849.

Report of the Committee on Finance in Favor of Adopting Resolution for $30,664.68 Special Revenue Bonds to Meet Claims Against the General School Fund for 1914.

The Committee on Finance, to which was referred on June 15, 1915 (Minutes, page 655), a request of the Board of Education for $35,664.68 to meet claims against the General School Fund for 1914, respectfully

REPORTS:

That, having examined the subject, it believes all of the requested allowance to be necessary, with the exception of $5,000 asked for possible belated claims.

It therefore recommends that the accompany resolution be 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 thirty thousand six hundred and sixty-four dollars and sixty-eight cents ($30,664.68), the proceeds whereof to be used by the Board of Education for the purpose of meeting claims against the General School Fund for 1914.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Quinn, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly; President Pounds; President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—65.

No. 223—Int. No. 1851.

Report of the Committee on Finance in Favor of Adopting Resolution for $296 Special Revenue Bonds for Replenishing Certain Accounts in the Office of the County Judge of Bronx County.

The Committee on Finance, to which was referred on June 15, 1915 (Minutes, page, 656), the annexed request of the County Judge of Bronx County, for $296 Special Revenue Bonds to replenish certain accounts, respectfully

REPORTS:

That, having examined the subject, it believes the proposed allowance to be necessary. The details are set forth in the letter of application.

The Committee recommends that the accompanying resolution be 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 hundred and ninety-six dollars ($296), the proceeds whereof to be used by the County Judge of Bronx County for the purpose of replenishing accounts in 1915 Budget, as follows:

Code No. 3341	$28 00
Code No. 3342	68 00
Code No. 3343B	75 00
Code No. 3343C	125 00
	$296 00

All obligations incurred hereunder to be contracted for on or before December 31, 1915.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

June 14th, 1915.

President, Board of Aldermen, City of New York:

Gentlemen—It has developed that appropriations for 1915 to schedules 3341, 3342 and 3343 will be insufficient to meet the needs of the Court during the current year and that schedules 3341 and 3343 have been depleted by transfers. I would, therefore, request that your Board, at this time, provide sufficient funds for the requirements of this Court for the balance of the year, pursuant to subdivision 8 of section 188 of the Charter of the City of New York. Itemized statement is herewith appended showing appropriations heretofore allowed; expenditures, transfers, prospective balances. May 1st, 1915, and additional amounts required for the year, of the several schedules:

3341	Supplies—	
	Budget appropriation	$200 00
	Transferred to 3343	10 09
	Balance	$189 91

Deducting April invoices, balance May 1st will be $123.15. Amount required for balance of year on present contracts $174.15; additional appropriation required $51.

3342	Purchase of Equipment—	
	Budget appropriation	$125 00
	Transferred from 3343	75 98
	Total	$200 98
	Amount expended	200 98

Law books contracted for $68.

3343	Contract or Open Order Service—	
	Budget appropriation	$345 00
	Transferred from 3341 to 3343a	10 09
		$355 09
	Transferred to 3342 from 3343c	75 98
		$279 11
(A)	General Plant Service	$30 09
	Expended	30 09
(B)	Communication	$175 00
	Expended to May 1st	48 03
	Balance	$126 97

Based upon present consumption excess calls for 1915 will require an amount of $75 in addition to above balance.

(C)	Transportation	$74 02
	Expended to May 1st	67 55
	Balance	$6 47

Estimated additional amount required for balance of year, $125.

Recapitulation of amounts required for the several schedules herein in addition to present balances:

3341	$28 00
3342	68 00
3343B	75 00
3343C	125 00
	$296 00

Respectfully yours, LOUIS D. GIBBS, County Judge, Bronx County.

County Court, County of Bronx, New York City, June 25th, 1915.

Hon. HENRY H. CURRAN, *Chairman, Finance Committee, Board of Aldermen, Aldermanic Chambers,* New York City:

Dear Sir—In the request made to your Board recently for an issue of Special Revenue Bonds to provide additional funds for this Court, which request was favorably reported by your Committee to the Board June 2nd, 1915, and laid over, I note that an error was made in summarizing the additional amounts required for each schedule. Under 3341 you will note that we asked for $51 additional but in the summarization only $28 was written.

If it be possible for you to amend the request and make same $51, making a total of $319, I would appreciate such action. If, however, this will cause further delay we will let it stand as it is owing to the fact that the need of this money is quite urgent. Yours very truly, L. J. LE ROLLE.

June 14th, 1915.

President, Board of Aldermen, City of New York:

Gentlemen—It has developed that appropriations for 1915 to schedules 3341, 3342 and 3343 will be insufficient to meet the needs of the Court during the current year and that schedules 3341 and 3343 have been depleted by transfers. I would, therefore, request that your Board, at this time, provide sufficient funds for the requirements of this Court for the balance of the year, pursuant to subdivision 8 of sect. 188 of tre Charter of the City of New York. Itemized statement is herewith appended showing appropriations heretofore allowed, expenditures, transfers, prospective balances, May 1st, 1915, and additional amounts required for the year of the several schedules:

3341	Supplies—	
	Budget appropriation	$200 00
	Transferred to 3343	10 09
	Balance	$189 91

Deducting April invoices, balance May 1st will be $123.15. Amount required for balance of year on present contracts, $174.15; additional appropriation required, $51.00.

3342	Purchase of Equipment—	
	Budget appropriation	$15 00
	Transferred from 3343	75 98
	Total	$200 98
	Amount expended	200 98

Law books contracted for, $68.

3343	Contract or Open Order Service—	
	Budget appropriation	$345 00
	Transferred from 3341 to 3343a	10 09
		$355 09
	Transferred to 3342 from 3343c	75 98
		$279 11
(A)	General Plant Service	$30 09
	Expended	30 09
(B)	Communication	$175 00
	Expended to May 1st	48 03
	Balance	$126 97

Based upon present consumption, excess calls for 1915 will require an amount of $75 in addition to above balance.

(C)	Transportation	$74 02
	Expended to May 1st	67 55
	Balance	$6 47

Estimated additional amount required for balance of year, $125.

Recapitulation of amounts required for the several schedules herein in addition to present balances:

3341	$28 00	$51 00
3342	68 00	68 00
3343B	75 00	75 00
3343C	125 00	125 00
	$296 00	$319 00

Respectfully yours, L. D. GIBBS, County Judge, Bronx County.

Alderman Curran moved that the following resolution be substituted for the resolution reported:

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 three hundred and nineteen dollars ($319), the proceeds whereof to be used by the County Judge of Bronx County for the purpose of replenishing accounts in 1915 Budget, as follows:

Code No. 3341	$51 00
Code No. 3342	68 00
Code No. 3343B	75 00
Code No. 3343C	125 00
	$319 00

—all obligations incurred hereunder to be contracted for on or before December 31, 1915.

Which motion was adopted.

The President then put the question whether the Board would agree to adopt said substitute resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly; President Pounds; President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—64.

Negative—Alderman Quinn—1.

No. 224—Int. No. 1854.

Report of the Committee on Finance in Favor of Adopting Resolution for $28,970 Special Revenue Bonds for Replenishing Certain Accounts in the Office of the Department of Water Supply, Gas and Electricity.

The Committee on Finance, to which was referred on June 15, 1915 (Minutes, page 665), the annexed request from the Commissioner of Water Supply, Gas and Electricity for $16,500 special revenue bonds for purchase of coal, and $12,470 for equipment, etc., respectfully

REPORTS:

That having examined the subject, it believes the proposed allowance to be necessary. Unforeseen necessities in pumping made it requisite to use just so much more coal than was anticipated at the time the budget was made up, and additional repairs have been found necessary during the year.

It, therefore, recommends that the accompanying resolution be 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 twenty-eight thousand nine hundred and seventy dollars ($28,970), the proceeds whereof to be used by the Department of Water Supply, Gas and Electricity, for the purpose of replenishing the following accounts for 1915:

Code 2206—Fuel	$16,500 00
Code 2221—General Plant Supplies	1,400 00
Code 2236—General Plant Equipment	370 00
Code 2239—Building Materials, Pumping	300 00
Code 2240—General Plant Materials, Pumping	3,200 00
Code 2244—General Repairs	2.500 00
Code 2272—Hire of Horses and Vehicles, Without Drivers	4,700 00

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Quinn, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly; President Pounds; President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—65.

No. 225—Int. No. 1855.

Report of the Committee on Finance in Favor of Adopting Resolution for $26,249.40 Special Revenue Bonds for Materials for Repairs to Parkways Under the Commissioner of Parks, Borough of The Bronx.

The Committee on Finance, to which was referred on June 15, 1915 (Minutes, page 670), the annexed request of the Commissioner of Parks for the Borough of The Bronx for $26,249.40 special revenue bonds for road materials for repairs to parkways, respectfully,

REPORTS:

That having examined the subject, it believes the proposed appropriation to be necessary. The details are set forth in the letter of request. This sum will allow the department to accept a donation of a large quantity of broken stone which will save the City thousands of dollars. The Committee recommends that the accompanying resolution be 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 twenty-six thousand two hundred and forty-nine 40-100 dollars ($26,249.40), the proceeds whereof to be used by the Commissioner of Parks, Borough of The Bronx, for the purpose of purchasing materials for repairs to roads in the parks and on the parkways under the jurisdiction of said department, for furnishing dust-preventive material, and for fencing the various playgrounds.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

The City of New York, Department of Parks, Office of Commissioner for the Borough of The Bronx, Zbrowski Mansion, Claremont Park, June 15, 1915.

Honorable GEORGE MCANENY, *President of the Board of Aldermen,* City Hall, New York City:

Sir—I have the honor to respectfully request that your Honorable Board adopt a resolution recommending that the Board of Estimate and Apportionment authorize the Comptroller to issue special revenue bonds in the sum of twenty-six thousand two hundred forty-nine and 40-100 dollars ($26,249.40) for the purpose of purchasing materials to make the necessary repairs to the roads in the parks and on the parkways under the jurisdiction of this department, for furnishing dust-preventive material and for fencing the various playgrounds

The several items for which revenue bonds are requested are as follows:

5,870 cu. yds. trap rock screenings at $1.60	$9,392 00
3,267 cu. yds. grits at $1	3,267 00
79,380 gals. refined coal tar in place, 8 cents	6.350 40
Cost of hauling broken stone as per schedule	6,000 00
20 tons calcium chloride, $14	280 00
2,400 lin. ft. six-foot electrically welded wire fencing, 40 cents	960 00
Total	$26,249 40

This department has received a donation of a very large quantity of broken stone. suitable for highway repair and reconstruction, the only cost to the City being that of hauling; but, with the limited funds available for the purchase of other repair material, we shall be unable to make the very necessary repairs to the park roads and parkways unless an appropriation be had for the purchase of screenings, grits, coal tar and means for hauling broken stone to the several roads.

The fencing of, and putting the grounds of, the department playgrounds in good condition is also very necessary, and should receive early attention.

Separate schedules, showing in detail the sums required for repairs to the several park roads and parkways and for fencing the playgrounds in the various parks, is transmitted herewith. Respectfully,

THOMAS W. WHITTLE, Commissioner of Parks, Borough of The Bronx.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon,

Robitzek, Rosenblum, Schweickert, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly; President Pounds; President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—64.

Negative—Alderman Quinn—1.

No. 226—Int. No. 1874.

Report of the Committee on Finance in Favor of Adopting Resolution for $4,900 Special Revenue Bonds for Expenses of Committee on Buildings in Preparation of Building Code.

The Committee on Finance, to which was referred on June 15, 1915 (Minutes, page 798), the annexed resolution in favor of an issue of $4,900 special revenue bonds for expenses of Committee on Buildings in preparation of the Building Code, respectfully,

REPORTS:

That having examined the subject, it believes the proposed allowance to be necessary to pay the salaries of the staff engaged in this work for the remainder of the year.

It, therefore, recommends that the said resolution be 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 four thousand nine hundred dollars ($4,900), the proceeds whereof to be used by the Committee on Buildings for the purpose of meeting necessary expenses incident to the preparation of a Building Code.

HENRY H. CURRAN, JOHN DIEMER, F. H. STEVENSON, C. AUGUSTUS POST, F. H. WILMOT, FRANCIS P. KENNEY, Committee on Finance.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Rosenblum, Schweickert, Squiers, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot; President Connolly; President Pounds; President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—64.

Negative—Alderman Quinn—1.

No. 227—Int. No. 1746.

Report of the Committee on Public Letting in Favor of Adopting Resolution to Permit the Trustees of Bellevue and Allied Hospitals to Contract with the Croker Fire Prevention Company for Inspections, Drills, Etc., Without Public Letting.

The Committee on Public Letting, to which was referred on May 11, 1915 (Minutes, page 445), the annexed request from the Trustees of Bellevue and Allied Hospitals for authority to contract with the Croker National Fire Prevention Engineering Company for inspection and drill service, without public letting, respectfully

REPORTS:

That this is an annual grant, and is certified as working successfully by the hospital authorities. No advantage could be obtained by bids for this character of service, and the charge made seems reasonable.

The Committee recommends that the accompanying resolution be adopted.

Resolved, That, in pursuance of the provisions of section 419 of the Greater New York Charter, the Board of Trustees of Bellevue and Allied Hospitals be and it is hereby authorized and empowered to enter into contract with the Croker National Fire Prevention Engineering Company, without public letting, to conduct weekly inspections, drills, instruction, testing of hose, standpipes and extinguishers and other measures for protection against fire for twelve months ending August 31, 1915, at a cost not to exceed fifteen hundred dollars ($1,500).

JOHN DIEMER, EDWARD H. TAYLOR, WILLIAM DUGGAN, JOHN McCANN, W. F. QUINN, JOHN KOCHENDORFER, Committee on Public Letting.

Bellevue and Allied Hospitals, Office of the Board of Trustees, First Avenue and 26th Street, New York, April 29, 1915.

Hon. GEORGE MCANENY, *President, Board of Aldermen,* City Hall, New York:

Sir—The Trustees of Bellevue and Allied Hospitals have the honor to request the Board of Aldermen to exempt from public letting, pursuant to provisions of section 419 of the Charter, the contract of this Department for the employment of the Croker National Fire Prevention Engineering Company to conduct weekly inspections, drills, instruction, testing of hose, standpipes and extinguishers and other measures for protection against fire for twelve months ending August 31, 1915, at a cost not to exceed $1,500.

The Croker National Fire Prevention Engineering Company has been conducting fire drills in Bellevue and its allied hospitals for the past few years. Several months ago the Trustees requested the Fire Department to assign a fireman to Bellevue Hospital to supervise such fire drills. Commissioner Adamson, on February 15, 1915, informed the Trustees that the Fire Department could not detail men for this purpose, as it would weaken the regularly organized companies.

In view of this report and the fact that Bellevue Hospital covers over ten acres, extending from 26th Street to 29th Street and from First Avenue to the East River, and provides accommodations at all times for over two thousand people, the Trustees feel it incumbent upon them to furnish ample fire protection for patients and employees under their jurisdiction. As it would be difficult, if not impossible, to entertain competitive bids on such a contract, which requires personal service of a special character, the Board of Trustees makes the above-mentioned request. Respectfully,

J. K. PAULDING, Secretary, Board of Trustees.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Fink, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Quinn, Reardon, Robitzek, Rosenblum, Schweickert, Squires, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot and the Vice-Chairman—62.

No. 228—Int. No. 1812.

Report of the Committee on Public Letting in Favor of Adopting Resolution to Authorize the President of the Borough of The Bronx to Contract, Without Public Letting, for Alterations to the Rapid Transit Station at East 174th Street and Southern Boulevard.

The Committee on Public Letting, to which was referred on June 8, 1915 (Minutes, page 588), the annexed request of the President of the Borough of The Bronx for authority to carry on the work of making alterations to the rapid transit station at East 174th street and Southern Boulevard, without public letting, respectfully

REPORTS:

That having examined the subject, it believes the proposed permission to be necessary. The details are set forth in the letter of request. It does not appear that bids can well be asked on this job because of its perculiar character, as explained in the papers attached, and the Committee therefore recommends that the accompanying resolution be adopted.

Resolved, That, in pursuance of the provisions of section 419 of the Greater New York Charter, the President of the Borough of The Bronx be and he is hereby authorized and empowered to enter into contract, without public letting, for the purpose of making alterations to the rapid transit station at East 174th street and Southern Boulevard, at a cost not to exceed six thousand dollars ($6,000).

JOHN DIEMER, EDWARD H. TAYLOR, WILLIAM DUGGAN, JOHN McCANN, W. F. QUINN, JACOB WEIL, JOHN KOCHENDORFER, Committee on Public Letting.

City of New York, President of the Borough of The Bronx, Third Avenue and 177th Street, June 2nd, 1915.

Hon. GEORGE MCANENY, *President Board of Aldermen,* Manhattan:

Dear Sir—By a resolution of the Board of Estimate and Apportionment, adopted on the 22nd day of January, 1915, corporate stock of the City of New York to an amount not exceeding $7,000 was appropriated for the purpose of making alterations to the Rapid Transit Station at East 174th Street and Southern Boulevard, Borough of The Bronx; which resolution was approved and concurred in by the Board of Aldermen on January 26th, 1915, and became effective without the Mayor's approval or disapproval as provided in section 40 of the Greater New York Charter.

The work involved is made necessary by the physical widening of East 174th Street, from 60 feet to 80 feet, and includes the shifting of the easterly stairway of the said station, the columns supporting the same, as well as a column supporting the main structure so that same will not encumber or obstruct the roadway of the street as is the case at the present time.

It is proposed to effect this work in the same manner as that followed in the case of the alteration to the stairways, etc., at West 210th Street and 10th Avenue in the Borough of Manhattan.

With this in mind a form of resolution has been prepared by the Attorneys for the Public Service Commission, whereby the Interborough Rapid Transit Company, as assignees of the construction provisions of Contract No. 1, between the City of New York, acting by the Board of Rapid Transit Railroad Commissioners of the City of New York and John B. McDonald, dated February 21st, 1900, ordering the removal of the stairway and columns, referred to, from the roadway in East 174th Street to the sidewalk at the northeasterly corner of East 174th Street and Southern Boulevard, in accordance with drawings prepared by the Public Service Commission and with the provisions of the contract before referred to, at an expense of $6,000, to be paid by the City upon the completion of the work to the satisfaction of the Public Service Commission and upon vouchers certified by the said Commission and approved by the President of the Borough of The Bronx.

Copies of this form of resolution and the plans are now before the Board of Estimate and Apportionment for approval, as provided by the terms of the resolution of said Board, by which the funds were authorized.

The character of the work is such, that inviting public bids seem impracticable; the shifting of the columns involves the insertion of a new girder to support the main structure. To carry out this work and at the same time provide for the continuous operation of trains, the station and the stairway, involves difficulties that could not be reasonably met by an outside contractor.

An understanding has been arrived at between this office, the Public Service Commission and the Interborough Rapid Transit Company that $6,000 is a fair and reasonable cost for the work involved. In order that this work may be carried on in the manner above outlined, your Board is respectfully requested to authorize the carrying out of this work without public letting.

Respectfully,

DOUGLAS MATHEWSON, President of the Borough of The Bronx.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Fink, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Quinn, Reardon, Robitzek, Rosenblum, Schweickert, Squires, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot and the Vice-Chairman—62.

No. 229—Int. No. 1862.

Report of the Committee on Public Letting in Favor of Adopting Resolution to Permit the President of the Borough of The Bronx to Purchase, Without Public Letting, a Completed Section of Sewer in Said Borough.

The Committee on Public Letting to which was referred on June 15, 1915, (Minutes, page 677), the annexed request from the President of the Borough of The Bronx for authority to purchase a completed section of sewer, without public letting, at a cost not to exceed $80,000, respectfully

REPORTS:

That the details of this very important matter are set forth in the letter of application. To all appearances this transaction will result in a considerable saving for the City in funds, and advance the improvement work of this section in a large measure. The Committee, on these accounts, does not hesitate to recommend that the accompanying resolution be adopted.

Resolved, That, in pursuance of the provisions of section 419 of the Greater New York Charter, the President of the Borough of The Bronx be, and he is hereby authorized and empowered to enter into contract with the New York, New Haven and Hartford Railroad Company, without public letting, for the purchase of a sewer lying across the right-of-way of said railroad company between Poplar Street and Sacket Avenue, in the Borough of The Bronx, between the point where Blondell Avenue terminates south of the railroad right-of-way and where it again commences on the northerly side of the right-of-way, at a cost not to exceed Eighty thousand dollars ($80,000); such contract, however, not to be entered into until the railroad company has agreed to grant to The City of New York, for a nominal consideration, the perpetual right and easement to maintain the sewer in question, not only so far as relates to the part thereof already mentioned, but including the right-of-way of the railroad company, with the usual right of entry and re-entry for the purpose of maintaining and keeping in repair the sewer in question or any one that may later be substituted therefor; provided, further, that said contract be approved as to all its forms and provisions by the Corporation Counsel, and the value of the construction to be delivered pursuant to the terms of such contract to be audited and passed upon as to reasonable value by the Comptroller.

JOHN DIEMER, EDWARD H. TAYLOR, WILLIAM DUGGAN, JOHN McCANN, JACOB WEIL, JOHN KOCHENDORFER, Committee on Public Letting.

City of New York, President of the Borough of The Bronx, Third Avenue and 177th Street, Office of the President, June 14, 1915.

Hon. GEORGE MCANENY, *President of the Board of Aldermen,* City Hall, Manhattan, New York City:

Sir—The office of the President of the Borough of The Bronx has heretofore received from the Board of Estimate and Apportionment preliminary authorization for the construction of sewers and appurtenances in Westchester Avenue, from existing sewer at Westchester Square to Blondell Avenue; and in Blondell Avenue, between Westchester Avenue and Poplar Street; and across the property of the New York, New Haven and Hartford Railroad Company, between Poplar Street and the south end of the existing sewer within the right-of-way of the New York, New Haven and Hartford Railroad Company about 83 feet north of Poplar Street; and across the property of the New York, New Haven and Hartford Railroad Company, from the north end of the existing sewer within the right-of-way of the New York, New Haven and Hartford Railroad Company about 40 feet south of Sacket Avenue to Sacket Avenue; and thence running through enumerated streets to and including Burke Avenue, between Throop Avenue and White Plains Road.

The preliminary work for this improvement is nearly completed, and it is anticipated that within the next few weeks the final authorization of the Board of Estimate and Apportionment will be given for the doing of the work.

Part of the sewer improvement necessary to perfect the work contemplated by the above mentioned authorizations lies across the right of way of the New York, New Haven and Hartford Railroad Company, between Poplar Street and Sacket Avenue, in the Borough of The Bronx, between the point where Blondell Avenue terminates south of the railroad right of way and where it again commences on the northerly side of the right of way, that avenue not being laid out across the right of way. It has been found that the railroad company when, a few years since, it constructed its new six-track railroad, built and constructed a triple concrete sewer, each of the three barrels being in dimensions 11 x 8 feet, beneath its tracks at the point mentioned the total length of each of the three sewers being 191.19 feet, or thereabouts. This triple-barreled sewer so constructed did not entirely cross the right of way of the company, commencing about 85 feet north of the southerly line of the right of way and ending about 41 feet south of the northerly line of the right of way. It appears from the records of my office that when the then Chief Engineer of the Borough of The Bronx was asked to furnish to the railroad company a list of sewers, with the plans therefor, which were to be built under the so-called "six-tracking agreement" made between the railroad in question and The City of New York, dated December 23, 1904, which will be found set forth in full on pages 1924-1931 of the Board of Estimate Minutes for the year 1904, this particular sewer was included in such list and plans therefor were furnished. It further appears that it was built under the supervision of the City's representatives. This particular section of sewer was a new sewer and did not take the place of one theretofore existing. The City has never, as yet, used the triple sewer so constructed. It complies in all

respects with the final drainage plans of the Borough of The Bronx. The railroad company for several years past has taken the position that it should not have built this sewer, claiming that its liability under the so-called six-tracking agreement was liimted to the rebuilding of then existing sewers. The railroad company disputes the right of the City to enter upon and use the triple concrete sewer so constructed, or to enter upon its land above mentioned within the limits before referred to, either to construct the necessary additional sewer or to build another sewer to take the place of the one constructed by the company, as before mentioned.

The railroad company claims that it expended in building the triple sewer in question $53,503.46. The Engineers of the Finance Department have appraised the same construction work at $45,104.34. My own Engineers have appraised the triple sewer so constructed at $39,139.61. These valuations are for the construction of the sewer at the time when it was constructed, *i. e.,* prior to the six-tracking of the road, when there were but two railroad tracks to be supported, instead of the now existing six main tracks, with the traffic which they carry, to be supported. My own engineers estimate that had the railroad company not built the section of triple concrete sewer which they have, to construct the same at the present time under existing conditions would cost at least $80,000.

In connection with two other similar situations, this matter has been a subject of negotiation between representatives of my office, of the Corporation Counsel's office and of the Comptroller's office, and of the railroad company. As a result of these conferences the railroad company has agreed to accept $80,000 as a consideration for turning over to The City of New York the section of completed sewer mentioned. If that offer is accepted the railroad company has agreed to grant for a nominal consideration to the City the perpetual right and easement to maintain the sewer in question, not only so far as relates to the part thereof already mentioned, but including the part still to be constructed across the right of way of the railroad company, with the usual right of entry and re-entry for the purpose of maintaining and keeping in repair the sewer in question or any one that may later be substituted therefor.

This price, as will be seen, is higher than the actual cost to the railroad company, but it is also lower than would be the cost of new construction at the present time, and it must be borne in mind that as a penalty for the cheaper construction by the railroad company before the laying of its tracks it has lost the use of the money for some six or seven years, and in equity would be entitled to compute interest for that period of time.

Obviously, neither myself nor any other City authority may purchase the sewer so constructed, pursuant to public bidding, and I therefore ask the permission of the Board of Aldermen, pursuant to section 419 of the Greater New York Charter, to order and permit me, as President of the Borough of The Bronx, but upon behalf of The City of New York, to enter into a contract for the purchase, and to purchase, such completed section of sewer at a price not exceeding $80,000, said contract to be approved as to all its forms and provisions by the Corporation Counsel of The City of New York, and the value of the construction to be delivered pursuant to the terms of such contract, to be audited and passed upon as to reasonable value, by the Comptroller of The City of New York.

I believe that it is to the interest of the City that such order and authorization of the Board of Aldermen should be given. If it is not, there will be considerable delay, and, in all probability, a greater expenditure for the construction of the sewer in question. It is extremely desirable that there should be no such delay, inasmuch as the sewer involved is the trunk sewer to drain a very large territory in the Eastchester and lower Williamsbridge sections of The Bronx. These sections are at present without adequate sanitary drainage facilities and with no storm water drainage facilities at all other than natural water courses. The western area of the sewer district in question is closely contiguous to the new White Plains Avenue rapid transit line. That territory promises an early development, and it is essential to that development that proper sewerage facilities should be provided. Yours very truly,

DOUGLAS MATHEWSON, President of the Borough of The Bronx.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Burns, Carberry, Crane, Chorosh, Cole, Colne, Cunningham, Delaney, Diemer, Donnelly, Dostal, Dotzler, Dowling, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Fink, Gaynor, Hannon, Hogan, Igstaedter, Jacobson, Kenneally, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Moran, Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Quinn, Reardon, Robitzek, Rosenblum, Schweickert, Squires, Stapleton, Stevenson, Taylor, Valentine, Weil, Wilmot and the Vice-Chairman—62.

GENERAL ORDERS.

No. 697—Int. No. 1622.

Report of the Committee on General Welfare in Favor of Adopting Ordinance Relating to Garages, Public and Private, and Oil Selling Stations.

The Committee on General Welfare, to which was referred on April 6, 1915 (Minutes, page 72), the annexed ordinance in relation to garages, public and private, and oil selling stations, respectfully

REPORTS:

That it has held a number of hearings and conferences on this subject, and in conjunction with the Fire Department has so changed the proposed ordinance as to practically meet all objections raised by the garage operators. It presents a substitute ordinance herewith, and recommends that the said substitute ordinance be adopted.

SUBSTITUTE.

AN ORDINANCE to Amend Article 11 of Chapter 10 of the Code of Ordinances Relating to Garages, Public and Private, and to Oil Selling Stations.

Be it Ordained by the Board of Aldermen of The City of New York, as follows:

Section 1. Section 151 of chapter 10 is hereby amended to read as follows:

Section 151. Garages having tanks for storing volatile inflammable oil. No garage permit allowing the storage of volatile inflammable oil shall be issued for any building, shed or enclosure—

[(a) Which is situated within fifty feet of the nearest wall of a building occupied as a school, theatre, or other place of public amusement or assembly;]

[b] (*a*) Which is occupied as a tenement house, [or] hotel *or lodging house;*

[(c) Which is not constructed of fire-resisting material throughout;]

[d] (*b*) Where paints, varnishes or lacquers are manufactured [stored] or kept for sale;

[(e)] (*c*) Where dry goods or other highly inflammable materials are manufactured or kept for sale;

[(f)] (*d*) Where rosin, turpentine, hemp, cotton, [guncotton, smokeless powder, blasting powder,] or any [other] explosives are stored or kept for sale;

(*e*) *Which is situated within twenty feet of the nearest wall of a building occupied as a school, theatre or other place of public amusement or assembly, provided, however, that renewals of permits may be granted where the garage in question was in operation prior to the opening of the school, theatre or other place of public amusement or assembly, or has been in continuous operation under a permit issued therefor prior to May 1, 1915, and further provided that a permit may be issued for a garage hereafter erected within twenty feet of a building, the occupancy of which is enumerated in this subdivision, where the garage has no frontage on the same street with any frontage of such building, and the wall or walls of the garage adjacent thereto are constructed of brick, unpierced for a distance of at least twenty feet therefrom.*

Section 2. Subdivision 1 of Section 154 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows: 1. *In building otherwise occupied.* A permit may be issued for a *private* garage in a building occupied as a dwelling by [either] the applicant *or his employee or by the applicant* and one other tenant or by the applicant's employee and one other tenant, provided that not more than two [floors or] stories above the garage are occupied or used as living apartments, which apartments shall be separated from the garage by [unpierced fireproof] *fire-retarding* walls and floors, *not pierced except by one opening, protected by a fire-proof self-closing door, and provided that there shall be an entrance to the living apartments direct from the street without passing through the garage;* and provided further that all motor vehicles stored or kept in [such] *the* garage shall be the property of the applicant or his immediate family [and that none of such vehicles shall be let out for hire]. *No certificate of fitness shall be required of the person having supervision of such garage. No public garage, however, shall be permitted in any building occupied for dwelling purposes.*

Section 3. sub-division 1 of Section 156 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows:

1. *Tanks.* No garage permit authorizing the storage of volatile inflammable oil shall be issued for any premises which are not equipped with an approved storage system of sufficient capacity for the proper storage of such oil, which shall be installed in the manner prescribed in subdivisions 5, 6, 9, 13 and 14 of Section 131 of Article 9 of this chapter; provided that each tank shall be embedded in and surrounded by at least 12 inches of Portland cement concrete, composed of two parts of cement, 3 parts of sand and 5 parts of stone, *except that storage tanks installed in garages may have a capacity not exceeding 550 gallons each.*

Section 4. Subdivision 1 of Section 157 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows:

1. *Method.* No person shall deliver volatile inflammable oil from a storage tank to a motor vehicle, except by means of [a] *an approved* portable tank or directly through the outlet of the drawing-off pipe [.] *by means of an authorized hose attachment. All lights on motor vehicles except electric lights shall be extinguished before volatile inflammable oil is delivered to fuel tanks.*

Section 5. Subdivision 3 of Section 156 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows: 3. *Approval of appliances.* No storage tank, portable tank, oil separator, pump or other similar apparatus shall be installed in a garage unless it be of a type for which a certificate of approval shall have been issued by the fire commissioner. *Proper containers or devices to prevent or extinguish fire may be prescribed by the fire commissioner, who may issue certificates of approval therefor.*

Section 6. Subdivision 3 of Section 157 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows: 3. *Pumps; basement service.* No pump or stationary outlet for delivery of volatile inflammable oil in a garage shall be allowed on any floor below the street level; and no person shall deliver any such oil to the tank of a motor vehicle while on [the] *a* floor of the garage below the street level, unless [the ventilation of] such floor *is provided with adequate natural ventilation* [shall have been approved by].

Section 7. Subdivision 1 of Section 159 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows: 1. *Exposed flame or spark.* No stove, forge, [boiler,] torch *or other device employing* flame or fire, [and no] *nor any* electric or other [appliance] *apparatus* which is likely to produce an exposed spark, *except such electric apparatus as may be placed five feet or more above a floor of a garage,* shall be [installed] *allowed* in any garage, unless it be placed in a room or compartment which is separated from the garage by [fireproof walls and floors] *a partition constructed of fire retarding material and provided with a self-closing fireproof door; provided, however, that electric motors may be of the fully enclosed type or provided with an approved type "A" (fire department specifications) motor enclosure; the terminal blocks also shall be properly protected. No boiler or furnace shall be located in any garage unless separated from the remainder of the building by an unpierced fire-proof wall, consisting of solid masonry of at least 8 inches in thickness or its equivalent; provided, however, that where the construction of such unpierced wall shall be impracticable the fire commissioner may permit such openings in such wall as may be necessary, and prescribe such protection therefor, as in his judgment the particular case shall require.*

Section 8. Article 11 of Chapter 10 of the Code of Ordinances is hereby amended by adding thereto a new section, to be section 160 thereof, to read as follows:

Section 160. Oil Selling Stations. A permit may be issued by the fire commissioner for premises wherein the business of an oil selling station is to be conducted and such business shall be covered by the regulations on the subject of public garages in so far as they are applicable thereto.

Section 9. Article 11 of Chapter 10 of the Code of Ordinances is hereby amended by adding thereto a new section, to be section 152 thereof, to read as follows:

Section 152. Construction 1. General Regulations. Except as hereinafter provided in this section, all garages hereafter erected shall be of strictly fireproof construction as to all rooms and compartments, where motor vehicles with gasoline in their fuel tanks, are stored; and all garages heretofore erected shall have all walls, ceilings and floors covered with fire retarding material in all rooms and compartments where motor vehicles, with gasoline in their fuel tanks, are stored.

2. Non-fireproof roofs, doors and windows—where permitted. Garages not exceeding one story in height may have non-fireproof roofs and garages not exceeding two stories in height may likewise have non-fireproof roofs, provided the same are covered on the inside with approved fire retarding material in all cases where motor vehicles, with volatile inflammable oil in their fuel tanks, are stored or kept on the upper floor. Window openings and outside doors in such garages removed at least thirty feet from the nearest exposure, may be non-fireproof.

3. Non-fireproof construction, where permitted. Nothing in this section shall prohibit the erection or the granting of a permit for a garage of non-fireproof construction while the following conditions exist:

(a) No volatile inflammable oil is stored except in the fuel tanks of the motor vehicles;

(b) Fuel tanks of the motor vehicles stored, are not opened, filled or drawn from in the garage;

(c) Not more than four motor vehicles are stored;

(d) All motor vehicles stored are the property of the owner and not for sale, rent or hire.

(e) The garage is situated at least fifteen feet from the nearest building, unless the nearest wall of such building or the wall of the garage nearest such building is of unpierced fireproof construction; the provisions of this sub-division, however, to apply only to garages hereafter to be erected.

4. Converted Buildings. The requirements herein stated for garages hereafter erected shall apply to buildings erected after May 1, 1915, for any purpose, and thereafter converted for use for garage purposes

Section 10. The table of Section Headings of Article 11 of Chapter 10 of the Code of Ordinances is hereby amended to read as follows:

ARTICLE 11.

Garages.

Section 150. Permit.
151. Garages having tanks for storing volatile inflammable oil.
152. *Construction.*
[152. Garages without storage tanks.]
153. Public garage.
154. Private garage.
155. Oil separators.
156. Storage system.
157. Supplying vehicles.
158. Lighting.
159. Fire-prevention.
160. *Oil selling stations.*

Section 11. Section 152 and subdivision 2 of Section 154 of Article 11 of Chapter 10 of the Code of Ordinances are hereby repealed.

Section. 12. This ordinance shall take effect immediately.

Note—New matter in *italics:* old matter, in brackets [], to be omitted.

WILLIAM D. BRUSH, OSCAR IGSTAEDTER, WM. H. PENDRY, ARNON L. SQUIERS, W. F. QUINN, JOHN J. REARDON, Committee on General Welfare.

The President put the question whether the Board would agree to accept said report and adopt said ordinance.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Quinn, Reardon, Robitzek, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connolly; President Mathewson; President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—55.

No. 698—Int. No. 1785.

Report of the Committee on Public Thoroughfares in Favor of Adopting Resolution to Change Jurisdiction Over West 123rd Street, from Park Department to President, Borough of Manhattan.

The Committee on Public Thoroughfares, to which was referred on May 25, 1915 (Minutes, page 551), the annexed resolution in favor of transferring jurisdiction over West 123rd street, from the easterly side of Morningside avenue to its westerly terminus at Broadway, Borough of Manhattan, respectfully

REPORTS:

That, having examined the subject, it believes the proposed change to be necessary. It has the endorsement of both the Park Department and the Borough President.

It, therefore, recommends that the accompanying resolution be adopted.

Resolved, by the Board of Estimate and Apportionment that, pursuant to the provisions of Section 243-A of the Greater New York Charter (chapter 331, Laws of 1913), subject to the concurrence of the Board of Aldermen, the jurisdiction and control over West 123rd Street, from the easterly side of Morningside Avenue to its westerly terminus at Broadway, Borough of Manhattan, be transferred from the Department of Parks for the Boroughs of Manhattan and Richmond to the President of the Borough of Manhattan.

D. M. BEDELL, MICHAEL J. HOGAN, WILLIAM DUGGAN, FRANK DOSTAL, Jr., JAMES A. MILLIGAN, JAMES F. MULLEN, FRANK MULLEN, JOHN H. BOSCHEN, Committee on Public Thoroughfares.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Quinn, Reardon, Robitzek, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connolly; President Mathewson; President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—55.

No. 699—Int. No. 1692.

Report of the Committee on Salaries and Offices in Favor of Adopting Resolution to Establish Grades of Position of Medical Interne, Department of Public Charities.

The Committee on Salaries and Offices, to which was referred on April 27, 1915 (Minutes, page 255), the annexed resolution in favor of establishing grades of position of Medical Interne in the Department of Public Charities, respectfully

REPORTS:

That, having examined the subject, it believes the proposed grades to be necessary for the proper conduct of the business of the Department.

It therefore recommends that the accompanying resolution be adopted.

Whereas, The Board of Estimate and Apportionment adopted the following resolution at a stated meeting held April 23, 1915:

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 the establishment in the Department of Public Charities of the grades of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Medical Interne	$420 00	Unlimited
Medical Interne	540 00	Unlimited

Resolved, That the Board of Aldermen hereby approves of and concurs in the above resolution and fixes the salaries of said positions as set forth therein.

W. W. COLNE, JACOB WEIL, D. M. BEDELL, EDWARD B. VALENTINE, EDWARD EICHHORN, ANTHONY J. McNALLY, MICHAEL CARBERRY, FRANK DOSTAL, Jr., Committee on Salaries and Offices.

The President put the question whether the Board would agree to accept said report and adopt said ordinance.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connolly; President Mathewson; President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—54.

Negative—Alderman Quinn—1.

No. 700—Int. No. 1738.

Report of the Committee on Salaries and Offices in Favor of Adopting Resolution to Establish Grade of Telephone Operator, Department of Water Supply, Gas and Electricity, for One Incumbent.

The Committee on Salaries and Offices, to which was referred on May 1, 1915 (Minutes, page 439), the annexed resolution in favor of establishing grade of Telephone Operator in Department of Water Supply, Gas and Electricity at $660 per annum, respectfully

REPORTS:

That, having examined the subject, it believes the proposed grade to be necessary for one incumbent only.

It therefore recommends that the accompanying resolution be adopted.

Whereas, The Board of Estimate and Apportionment adopted the following resolution at a stated meeting held May 7, 1915.

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 the establishment in the Department of Water Supply, Gas and Electricity of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.
Telephone Operator	$660 00

Resolved, That the Board of Aldermen hereby approves of and concurs in the above resolution and fixes the salary of said position, for one incumbent only, as set forth therein.

W. W. COLNE, JACOB WEIL, D. M. BEDELL, EDWARD B. VALENTINE, EDWARD EICHHORN, ANTHONY J. McNALLY, MICHAEL CARBERRY, FRANK DOSTAL, Jr., Committee on Salaries and Offices.

The President put the question whether the Board would agree to accept said report and adopt said ordinance.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connolly; President Mathewson; President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—54.

Negative—Alderman Quinn—1.

No. 701—Int. No. 1828.

Report of the Committee on Salaries and Offices in Favor of Adopting Resolution to Establish Grade of Automobile Engineman in the Fire Department, at $1,050 per Annum, for Three Incumbents.

The Committee on Salaries and Offices, to which was referred on June 8, 1915 (Minutes, page 601), the annexed resolution in favor of establishing the grade of position of Automobile Engineman in the Fire Department at $1,050 per annum, respectfully

REPORTS:

That having examined the subject, it believes the proposed grade to be necessary. Two of these men are to take the place of members of the uniformed force, and the other position, now vacant, is to be reduced from $1,200 to $1,050.

The Committee recommends that the accompanying resolution be adopted.

Whereas, The Board of Estimate and Apportionment adopted the following resolution at a stated meeting held May 28, 1915.

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 the establishment in the Fire Department of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Automobile Engineman	$1,050 50	Three

Resolved, That the Board of Aldermen hereby approves of and concurs in the above resolution and fixes the salary of said position as set forth therein.

W. W. COLNE, JACOB WEIL, D. M. BEDELL, EDWARD B. VALENTINE, EDWARD EICHHORN, ANTHONY J. McNALLY, MICHAEL CARBERRY, FRANK DOSTAL, JR., Committee on Salaries and Offices.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connolly; President Mathewson; President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—54.

Negative—Alderman Quinn—1.

No. 702—Int. No. 1829.

Report of the Committee on Salaries and Offices in Favor of Adopting Resolution to Fix Compensation of Certain Janitors, Department of Education.

The Committee on Salaries and Offices, to which was referred on June 8, 1915 (Minutes, page 601), the annexed resolution in favor of fixing compensation of certain janitors, Department of Education, respectfully

REPORTS:

That these rates are fixed on the usual allowance basis.

The Committee recommends that the accompanying resolution be adopted.

Whereas, The Board of Estimate and Apportionment adopted the following resolution at a stated meeting held May 28, 1915.

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 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 21, The Bronx, per annum	$2,220 00
Janitor, Public School 170, Brooklyn, per annum	3,636 00
Janitor, Public School 179, Brooklyn, per annum	4,224 00

Resolved, That the Board of Aldermen hereby approves of and concurs in the above resolution and fixes the compensation of said positions as set forth therein.

W. W. COLNE, JACOB WEIL, D. M. BEDELL, EDWARD B. VALENTINE, EDWARD EICHHORN, ANTHONY J. McNALLY, MICHAEL CARBERRY, FRANK DOSTAL, JR., Committee on Salaries and Offices.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connolly; President Mathewson; President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—54.

Negative—Alderman Quinn—1.

No. 703—Int. No. 1857.

Report of the Committee on Salaries and Offices in Favor of Adopting Resolution to Establish Grade of Laboratory Assistant, Department of Public Charities, at $600 per Annum, for Two Incumbents.

The Committee on Salaries and Offices, to which was referred on June 15, 1915, (Minutes, page 672), the annexed resolution in favor of establishing grade of position of Laboratory Assistant in the Department of Public Charities, respectfully

REPORTS:

That, having examined the subject, it believes the proposed grade to be necessary. This is an increase of $240 per annum in salary for two employees, but a withdrawal of maintenance previously granted.

It therefore recommends that the accompanying resolution be adopted.

Whereas, The Board of Estimate and Apportionment adopted the following resolution at a stated meeting held June 11, 1915:

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 the establishment in the Department of Public Charities of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Laboratory Assistant	$600 00	Two

Resolved, That the Board of Aldermen hereby approves of and concurs in the above resolution and fixes the salary of said position as set forth therein.

W. W. COLNE, JACOB WEIL, D. M. BEDELL, EDWARD B. VALENTINE, EDWARD EICHHORN, ANTHONY J. McNALLY, FRANK DOSTAL, JR., Committee on Salaries and Offices.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connolly; President Mathewson; President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—54.

Negative—Alderman Quinn—1.

No. 704—Int. No. 1858.

Report of the Committee on Salaries and Offices in Favor of Adopting Resolution to Establish Grade of Clerk, at $1,320 per Annum, Department of Correction, for One Incumbent.

The Committee on Salaries and Offices, to which was referred on June 15, 1915 (Minutes, page 673), the annexed resolution in favor of establishing the grade of position of Clerk in the Department of Correction, respectfully

REPORTS:

That, having examined the subject, it believes the proposed grade to be necessary to provide for an increase in salary of $120 per annum for a Clerk who received his last increase in 1911.

It therefore recommends that the accompanying resolution be adopted.

Whereas, The Board of Estimate and Apportionment adopted the following resolution at a stated meeting held June 11, 1915:

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 the establishment in the Department of Correction of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate per Annum.	Number of Incumbents.
Clerk	$1,320 00	One

Resolved, That the Board of Aldermen hereby approves of and concurs in the above resolution and fixes the salary of said position as set forth therein.

W. W. COLNE, JACOB WEIL, D. M. BEDELL, EDWARD B. VALENTINE, EDWARD EICHHORN, ANTHONY J. McNALLY, FRANK DOSTAL, JR., Committee on Salaries and Offices.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connolly; President Mathewson; President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—54.

Negative—Alderman Quinn—1.

No. 705—Int. No. 1859.

Report of the Committee on Salaries and Offices in Favor of Adopting Resolution to Establish Grades of Hospital Helper and Cook, for One Incumbent Each, Under Board of Inebriety.

The Committee on Salaries and Offices, to which was referred on June 15, 1915 (Minutes, page 674), the annexed resolution in favor of establishing the grades of Hospital Helper and Cook in the Board of Inebriety, respectfully

REPORTS:

That having examined the subject, it believes the proposed grades to be necessary to enable appointments to be made of employees absolutely needed to care for patients at the farm in charge of this Board.

It, therefore, recommends that the accompanying resolution be adopted.

Whereas, The Board of Estimate and Apportionment adopted the following resolution at a stated meeting held June 11, 1915.

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 the establishment in the Board of Inebriety of grades of positions, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.		Number of Incumbents.
Hospital Helper (Male).....	$600 00	without maintenance	one
Cook (Male)	600 00	with maintenance	one

Resolved, That the Board of Aldermen hereby approves of and concurs in the above resolution and fixes the salaries of said positions as set forth therein.

W. W. COLNE, JACOB WEIL, D. M. BEDELL, EDWARD B. VALENTINE, EDWARD EICHHORN, ANTHONY J. McNALLY, MICHAEL CARBERRY, FRANK DOSTAL, JR., Committee on Salaries and Offices.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connolly; President Mathewson; President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—54.

Negative—Alderman Quinn—1.

No. 706—Int. No. 1860.

Report of the Committee on Salaries and Offices in Favor of Adopting Resolution to Establish Certain Grades of Positions in the Office of the County Clerk of Queens County.

The Committee on Salaries and Offices, to which was referred on June 15, 1915 (Minutes, page 674), the annexed resolution in favor of establishing various positions in the office of the County Clerk of Queens County, respectfully

REPORTS:

That these positions are needed to carry out the provisions of the new law, chapter 434 of the Laws of 1914, which takes effect July 1, 1915.

The Committee recommends that the accompanying resolution be adopted.

Whereas, The Board of Estimate and Apportionment adopted the following resolution at a stated meeting held June 11, 1915.

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 the establishment in the office of the County Clerk of Queens County of grades of positions in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Index Clerk	$1,320 00	four
Abstractor and Searcher	1,320 00	four
Clerk	900 00	two

Resolved, That the Board of Aldermen hereby approves of and concurs in the above resolution and fixes the salaries of said positions as set forth therein.

W. W. COLNE, JACOB WEIL, D. M. BEDELL, EDWARD B. VALENTINE, EDWARD EICHHORN, ANTHONY J. McNALLY, MICHAEL CARBERRY, FRANK DOSTAL, JR., Committee on Salaries and Offices.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Reardon, Robitzek, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connolly; President Mathewson; President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—54.

Negative—Alderman Quinn—1.

No. 707—Int. No. 1901.

Resolution Appointing Various Persons Commissioners of Deeds.

Resolved, That the following named persons be and they are hereby appointed Commissioners of Deeds:

By Vice Chairman Esterbrook—
Fred. G. H. Strohsall, 740 Greene Avenue, Brooklyn, N. Y.
Endorsed by James M. Kelly and James G. Purdy.

By Alderman Bedell—
Anton Larsen, 826 Amsterdam Avenue, Manhattan.
Endorsed by Henry A. Capel and Louis E. Michel.
Edward J. Rozelle, 153 West 100th Street, Manhattan.
Endorsed by Adolph Sunendenger and Joseph W. O'Connor.
George A. Schaefer, 152 West 101st Street, Manhattan.
Endorsed by Roswell D. Williams and Alfonse Kaufman.

By Alderman Benninger—
Thomas P. Carroll, 1624 Hancock Street, Evergreen, L. I.
Endorsed by Clifford C. Reeve and John H. Nuhn.

By Alderman Bosse—
Herman Meyer, 1556 East 12th Street, Brooklyn, N. Y.
Endorsed by John H. Meyer and Hyman Levin.
Abraham M. Pariser, 6120 19th Avenue, Brooklyn, N. Y.
Endorsed by Henry M. Orenstein and Nathan B. Finkelstein.

By Alderman Burns—
Alexander H. Goldberg, 292 East Broadway, Manhattan.
Endorsed by Morse S. Hirsch and Aaron Rosenberg.
Ethel Lewis, 158 Henry Street, Manhattan.
Endorsed by David E. Singer and Joseph Cohen.
Max Lessler, 425 Grand Street, Manhattan.
Endorsed by Arthur Gutman and Sol Levi.
John J. McNamara, 390 South 3d Street, Brooklyn, N. Y.
Endorsed by Benard Downing and Thomas A. Crowley.

By Alderman Carberry—
Joseph William Wall, 107 Washington Street, Brooklyn, N. Y.
Endorsed by Frank Savarek and Robert M. Carberry.

By Alderman Chorosh—
Joseph Flynn, 253 West 122d Street, Manhattan.
Endorsed by Jacob Goldstein and David Gordon.
William W. Drastal, 236 West 127th Street, Manhattan.
Endorsed by A. D. Robinson and Jos. Flynn.
Archibald McColl, 215 West 121st Street, Manhattan.
Endorsed by Augustin D. Robinson and William Allen.
Samuel Goodman, 24 West 112th Street, Manhattan.
Endorsed by I. Ernstahl and E. J. Schwed.
Augustin D. Robinson, 130 West 121st Street, Manhattan.
Endorsed by David Gordon and Wm. H. Drastal.
Jacob B. Cohen, 54 West 115th Street, Manhattan.
Endorsed by Wm. W. Drastal and Samuel Marx.
Hugh H. Masterson, 274 West 119th Street, Manhattan.
Endorsed by Max M. Berke and A. D. Robinson.
Alexander Heyert, 5 West 116th Street, Manhattan.
Endorsed by Nelson L. Keach and Samuel D. Marks.

By Alderman Diemer—
Ernest Casazza, 186 Navy Street, Brooklyn, N. Y.
Endorsed by M. J. Driscoll and Michael L. Piro.
Margaret Kathleen Oeffner, 787 Willoughby Avenue, Brooklyn, N. Y.
Endorsed by Alfred Bernheimp and Chas. W. Pracht.
Minnie W. Kapit, 118 Pulaski Street, Brooklyn, N. Y.
Endorsed by Chas. Miller and Jacob J. Schwerbel.
Joseph Nemerov, 621 Willoughby Avenue, Brooklyn, N. Y.
Endorsed by Graham McAdam and Alexander Johns.
Benjamin Lichterman, 638 Willoughby Avenue, Brooklyn, N. Y.
Endorsed by Hyman Rosen and William Weinstein.

By Alderman Dostal, Jr.—
Samuel Salinger, 163 East 4th Street, Manhattan.
Endorsed by Frank Kuhn and Alex. J. Hahn.

By Alderman Dotzler—
John A. Schoen, 3250 Olinville Avenue, The Bronx.
Endorsed by Frederick J. Berger and Frank J. Dotzler.
Benjamin Friedmann, 344 East Houston Street, Manhattan.
Endorsed by Simon Israel and Abraham Hessenberg.
Isidor Wels, 268 Seventh Street, Manhattan.
Endorsed by Frank Moss and Samuel Marcus.

By Alderman Dowling—
Lawrence A. Bird, 162 9th Avenue, Manhattan.
Endorsed by George W. Thomson and Wm. L. Kavanagh.
William L. Kavanagh, 401 West 24th Street, Manhattan.
Endorsed by George W. Thomson and James H. Cross.

By Alderman Duggan—
Frank Streppone, 304 East 116th Street, Manhattan.
Endorsed by Joseph Sampson and William Damilio.

By Alderman Dujat—
James W. McKenna, 20 Van Pelt Street, Long Island City.
Endorsed by A. S. Benninger and Samuel J. Burden.

By Alderman Eichhorn—
John B. Rogan, 102 Rockaway Avenue, Brooklyn, N. Y.
Endorsed by A. G. Downs and Philip A. Riley.

By Alderman Ferguson—
Charles Zimmermann, Jr., 442 East 165th Street, Bronx, N. Y.
Endorsed by Oliver E. Daus and John M. Cantwell.
Domenick Picciano, 295 East 149th Street, Bronx, N. Y.
Endorsed by Walter A. Newman and George W. Beal.

By Alderman Fink—
Matilda Emma Nestel, 234 Fingerboard Road, Fort Wadsworth, Richmond.
Endorsed by Guy O. Walser and Bertram S. Sadie.

By Alderman Gaynor—
Samuel Rosenberg, 257 Hooper Street, Brooklyn, N. Y.
Endorsed by William J. Michel and Paul Windels.

By Alderman Igstaedter—
Luke A. Higgins, 340 St. Nicholas Avenue, Manhattan.
Endorsed by Harry J. Callahan and Henry N. Schneider.
John H. O'Connell, 484 St. Nicholas Avenue, Manhattan.
Endorsed by Adolph J. Kohn and John Hughes.
Thomas Kane, 39 Hancock Place, Manhattan.
Endorsed by Christopher E. Dunn and Timothy F. Morrissey.
Walter V. Flynn, 2146 7th Avenue, Manhattan.
Endorsed by Bernard McFarland and Perry E. O'Keefe.
Christopher Edmund Dunn, 2194 Seventh Avenue, Manhattan.
Endorsed by Luke A. Higgins and Timothy F. Morrissey.
John F. Shaughnessy, 321 St. Nicholas Avenue, Manhattan.
Endorsed by John H. O'Connell and Timothy F. Morrissey.
Timothy F. Morrissey, 2192 7th Avenue, Manhattan.
Endorsed by Adolph J. Kohn and John H. O'Connell.

By Alderman Kochendorfer—
Caroline G. Myerowitz, 74 Dugan Street, Jamaica, L. I.
Endorsed by Michael Meyerowitz and David B. Sugarman.

By Alderman Lein—
John J. Owens, 310 East 39th Street, Manhattan.
Endorsed by John A. Mossel and Wm. H. Clark.
Michael S. Gilbride, 308 East 26th Street, Manhattan.
Endorsed by John J. Owens and Thomas J. McArdle.
Edward J. Ryan, 220 East 27th Street, Manhattan.
Endorsed by William J. Murphy and James L. Stewart.
Thomas J. McArdle, 307 East 30th Street, Manhattan.
Endorsed by John J. Reddy and John A. Mossel.
Park A. Mahoney, 229 East 30th Street, Manhattan.
Endorsed by James J. McSherry and Raymond J. White.

By Alderman McCourt—
John A. Markey, 360 West 41st Street, Manhattan.
Endorsed by James A. Mackey and James P. Conway.
Peter J. Hynes, 323 West 39th Street, Manhattan.
Endorsed by James A. Mackey and Thomas W. Duane.
Peter J. Heagen, 494 Ninth Avenue, Manhattan.
Endorsed by Thomas W. Duane and James P. Conway.

By Alderman McGarry—
Edward Glinnen, 31 North Henry Street, Brooklyn, N. Y.
Endorsed by David Glennen and Frederick C. Streib.

By Alderman McNally—
May A. Duffy, 543 East 146th Street, Bronx, N. Y.
Endorsed by Walter E. Spear and T. S. Laughthorn.

By Alderman Milligan—
Jerome Lachenbruch, 202 Mt. Hope Place, Bronx, N. Y.
Endorsed by Leopold Friedman and E. John Ludvigh.

By Alderman Jesse D. Moore—
James T. Brady, 503 Vandervoort Avenue, Brooklyn, N. Y.
Endorsed by Edwin R. Williams and Edward J. Fanning.
Philip T. Williams, 108 Linden Avenue, Brooklyn, N. Y.
Endorsed by Elbert H. Hand and Walter S. Tuley.

Silas D. Moore, 224 Ainslee Street, Brooklyn, N. Y.
Endorsed by Alexander G. Fackner and F. B. Robinson.
Louis Jaykowsky, 605 Metropolitan Avenue, Brooklyn, N. Y.
Endorsed by Morris M. Becher and I. Levy Marx.
John F. Dower, Jr., 219 Manhattan Avenue, Brooklyn, N. Y.
Endorsed by Jesse D. Moore and James H. Cross.
Anthony De Piano, 54 Withers Street, Brooklyn, N. Y.
Endorsed by John M. Bohleber and David Hunter.
William H. Porter, 62 Powers Street, Brooklyn, N. Y.
Endorsed by James Weber and John F. Dower.

By Alderman Moran—
Timothy J. Kelly, 782 Morris Park Avenue, Bronx, N. Y.
Endorsed by Stephen Redmond and John T. Kearns.
Timothy F. Holt, 1458 Rosedale Avenue, Bronx, N. Y.
Endorsed by Irving A. Bogan and Carmelo Spietbud.

By Alderman Frank Mullen—
Israel Greenberg, 235 West 148th Street, Manhattan.
Endorsed by Hyman Doninitz and Gerald A. Grant.

By Alderman James F. Mullen—
Nathan Mingelgreen, 57 East 102nd Street, Manhattan.
Endorsed by Henry C. Neuwirth and John J. Weiss.
Abraham Weber, 24 East 99th Street, Manhattan.
Endorsed by Abraham Greenberg and G. W. Waas.
Joseph J. Grandon, 1245 Park Avenue, Manhattan.
Endorsed by B. J. Flynn and James J. Coleman.
Bernard J. Flynn, 124 East 98th Street, Manhattan.
Endorsed by James J. Coleman and Thomas J. Kiernan.

By Alderman Quinn—
Frank R. Bentz, 211 West 67th Street, Manhattan.
Endorsed by Abram Ellenbogen and Thomas F. Shanahan.
George W. Hall, 300 West 68th Street, Manhattan.
Endorsed by Leslie S. Dockbar and Abram Ellenbogen.
John J. Green, 167 West 92nd Street, Manhattan.
Endorsed by Geo. B. Francis and John H. Taylor.
Samuel Lederman, 225 West 110th Street, Manhattan.
Endorsed by Albert Ottinger and John F. Ducey.
John F. Ducey, 147 West 66th Street, Manhattan.
Endorsed by Samuel Lederman and Geo. W. Hall.
Lewis F. Nichols, 101 West 83rd Street, Manhattan.
Endorsed by Abram Ellenbogen and John H. Taylor.
Samuel Harris, 207 West 80th Street, Manhattan.
Endorsed by Albert Ottinger and J. Leo Honigman.

By Alderman Reardon—
Marcus M. Levy, 423 East 79th Street, Manhattan.
Endorsed by Hugh P. Connolly and S. S. Fein.

By Alderman Robitzek—
Louis Lachman, 1758 Bathgate Avenue, Bronx, N. Y.
Endorsed by Max S. Levine and Louis Levene.
H. Robert Burnstine, 885 Trinity Avenue, Bronx, N. Y.
Endorsed by Harold Spielberg and Samuel Rauch.

By Alderman Rosenblum—
Abraham Joshua Baumann, 116 Thatford Avenue, Brooklyn, N. Y.
Endorsed by Mark S. Feiber and B. Miller.
Nathaniel J. Schneider, 227 Snediker Avenue, Brooklyn, N. Y.
Endorsed by Meyer Borhey and Louis Brown.

By Alderman Squiers—
Abraham L. Levin, 160 Albany Avenue, Brooklyn, N. Y.
Endorsed by C. Elli and N. S. Walshelowitz.
William H. Baker, 635 Delamere Place, Brooklyn, N. Y.
Endorsed by Anton Bruchmann and C. F. Moadurger, Jr.

By Alderman Stevenson—
Sarah A. Hastie, 154 Garfield Place, Brooklyn, N. Y.
Endorsed by Carl J. Petrasch and Ralph W. Naris.
Harold Paul Winans, 466 Second Street, Brooklyn, N. Y.
Endorsed by Robt. H. Stults and Jas. D. Robertson, Jr.

By Alderman Taylor—
Phil J. Lutz, 808 Macon Street, Brooklyn, N. Y.
Endorsed by H. R. Fellman and C. H. Mills.

By Alderman Trau—
John Francis Sullivan, 1761 Lexington Avenue, Manhattan.
Endorsed by Thomas J. Barry and Jos. A. Brady.
Chas. D. Stern, 1809 Lexington Avenue, Manhattan.
Endorsed by Louis Brill and Morris Shenman.
Leopold Freikor, 1813 Lexington Avenue, Manhattan.
Endorsed by Julius Kantrowitz and Alfred M. Lewis.
Matthew F. Streppone, 1855 Lexington Avenue, Manhattan.
Endorsed by William Damilio and Joseph Sampson.
William Damilio, 439 East 104th Street, Manhattan.
Endorsed by Jos. A. Brady and Joseph Sumpt.
Frank J. Ricca, 314 East 115th Street, Manhattan.
Endorsed by S. A. Cotillo and Francis M. Palladino.
Elias A. Galland, 152 East 113th Street, Manhattan.
Endorsed by Edward Schneider and Chas. B. Largy.
Daniel J. Naughtin, 2091 Third Avenue, Manhattan.
Endorsed by Benjamin Bernstein and Geo. R. Benjamin, Manhattan.
Michael J. J. Colucci, 348 East 114th Street, Manhattan.
Endorsed by S. A. Cotillo and Francis M. Palladino.

By Alderman Valentine—
Paul R. E. Steier, 1236 43rd Street, Brooklyn, N. Y.
Endorsed by De Witt Bailey and John J. Sullivan.
Adolph Berlin, 469 45th Street, Brooklyn, N. Y.
Endorsed by Philip Gootenberg and Daniel McCleary.
Harry E. DeMille, 355 56th Street, Brooklyn, N. Y.
Endorsed by Edward Harting and Charles S. Warbasse.

By Alderman Wendel, Jr.—
Thomas F. McGrath, 421 West 44th Street, Manhattan.
Endorsed by Hugh Rielly and James F. Mahony.
William H. Wenzel, 552 West 51st Street, Manhattan.
Endorsed by Thomas F. McGrath and James F. Mahony.
Christopher F. Plunkitt, 432 West 47th Street, Manhattan.
Endorsed by Hugh Reilly and Thomas F. McGrath.
James F. Mahony, 682 10th Avenue, Manhattan.
Endorsed by Edw. A. McManus and Christopher F. Plunkitt.

By Alderman White—
Stanislao Verusio, 205 Grand Street, Manhattan.
Endorsed by Charles H. Wenzell and John J. O'Grady.

By Alderman Wilmot—
Paul Theodore Davis, 3121 Sedgwick Avenue, Bronx, N. Y.
Endorsed by Wm. H. Griffin and James A. Edwards.

The President put the question whether the Board would agree to accept said report and adopt said resolution.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Quinn, Reardon, Robitzek, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connolly; President Mathewson; President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—55.

No. 709—Int. No. 1920.

An Ordinance Relating to Peddlers on Wilkins Avenue, Borough of The Bronx.

AN ORDINANCE to amend subdivision 2 of section 13 of chapter 24 of the Code of Ordinances, relating to peddlers on Wilkins Avenue, Borough of The Bronx.

Be it Ordained by the Board of Aldermen of The City of New York, as follows:

Section 1. Subdivision 2 of section 13 of chapter 24 of the Code of Ordinances is hereby amended by adding thereto a new clause to read as follows: "Nor shall any such peddler, vendor, hawker, huckster cry his or her wares or stop or remain on Wilkins Avenue, between Freeman Street and East 170th Street, Borough of The Bronx."

Section 2. This ordinance shall take effect immediately.

The President put the question whether the Board would agree to accept said report and adopt said ordinance.

Which was decided in the affirmative by the following vote:

Affirmative—Aldermen Bartscherer, Bedell, Benninger, Bosse, Brush, Burden, Carroll, Cole, Colne, Cunningham, Dixson, Donnelly, Dostal, Duggan, Dujat, Eichhorn, Ferguson, Ferrand, Eagan, Gaynor, Hannon, Hogan, Igstaedter, Kenney, Kochendorfer, Lein, Levy, McCann, McCourt, Milligan, Molen, Moore (Chas. J.), Mullen (Frank), Mullen (Jas. F.), Nugent, O'Rourke, Ottes, Pendry, Post, Quinn, Reardon, Robitzek, Smith, Squiers, Stapleton, Stevenson, Trau, Valentine, Weil, Wilmot; President Connolly; President Mathewson; President Pounds, President Marks, by Ralph Folks, Commissioner of Public Works; the Vice-Chairman—55.

No. 708—Int. No. 1917.

Resolution Appealing to the Constitutional Convention Relative to the Revision of the Constitution.

Whereas, We, the elected representatives of the people of The City of New York, chosen to a body created primarily to care for the legislative needs peculiar to this community, realize most keenly the deplorable extent to which the power of the local government in the exercise of its proper functions has been limited and cut down; and

Whereas, We recognize that the principle of municipal home rule has always existed in the fundamental law of this state and that its restriction and nullification during the last half century has wrought untold ill to the cities of the state; and

Whereas, There has been introduced in the New York State legislature in the years 1910 to 1915, inclusive, a total of 2,776 special city bills; and

Whereas, 1,423 of these bills were passed; and

Whereas, We contend that, if citizens are to feel a true sense of responsibility for the conditions in which they live, the local government must have sufficient freedom and power to manage its purely local affairs without interference by special acts of the state legislature; and

Whereas, It is clearly the right of citizens to hold municipal officers to strict accountability for the efficient management of the city's business, and no officer can be held responsible for the discharge of a duty which he has not the power to discharge; now, therefore, be it

Resolved, That the Board of Aldermen of The City of New York does earnestly appeal to the convention now assembled for the purpose of revising the constitution of this state, to seriously consider the plea of the people of the cities for restoration of the freedom of which they have been deprived, and to embody in the new constitution a provision which will:

(1) Assure to cities the right to prepare their own charters through duly elected delegates, and to adopt and amend the same.

(2) Require the state legislature to provide for the enactment of city charters only by general law similar to the laws under which private corporations are created.

(3) Prohibit the state legislature from enacting laws relating to the property, affairs and government of cities, or one or more counties lying wholly within a city, which are special or local in term or effect, and limiting the legislature to the enactment only of general laws having uniform application; and be it further

Resolved, That the Special Committee of this Board appointed on June 15th, 1915, is hereby authorized and empowered to use its every effort toward the furthering of the purposes hereof.

Which, on motion of Alderman Curran, was ordered on file.

ORDINANCES AND RESOLUTIONS, AGAIN RESUMED.

No. 1957—(G. O. No. 730).

Resolution Appointing Various Persons Commissioners of Deeds.

By the President—

Resolved, That the following named persons be and they are hereby appointed Commissioners of Deeds:

By the President—
William Chapman, 631 Lafayette Avenue, Brooklyn, N. Y.
Endorsed by Frank Woodworth and Thomas W. Christy.
Joseph Bernstein, 305 South 2d St., Brooklyn, N. Y.
Endorsed by Alex. S. Gornbers and Floyd J. Adams.

By the Vice-Chairman—
Joseph Paone, 105 Greenwich Ave., Manhattan.
Endorsed by Hazof Kaboolian and Valentine Schmitt.

By Alderman Bartscherer—
Louis J. Altkrug, 712 Broadway, Brooklyn, N. Y.
Endorsed by Fred. A. Besserer and A. Oppenheimer.

By Alderman Bedell—
William Cooper, 76 West 92d Street, Manhattan.
Endorsed by Max Keve and Gilbert D. Steiner.
Jacob Podell, 314 West 94th Street, Manhattan.
Endorsed by Chas. Rosenschein and Harry R. Kohn.

By Alderman Benninger—
Henry P. Feig, 131 Halleck Avenue, Borough of Queens.
Endorsed by Harry A. Davenport, Jr., and John D. Tierney.
Charles Britton Stone, 781 Fresh Pond Road, Borough of Queens.
Endorsed by Frank C. Klingen and M. F. Foley.

By Alderman Bosse—
George Victor Grainger, 2108 67th Street, Brooklyn, N. Y.
Endorsed by Lawrence E. French and Samuel S. Gobel, Jr.
Thomas J. Williams, 1864 East 22nd Street, Brooklyn, N. Y.
Endorsed by Otto D. Parker and William M. O'Keefe.
Anthony R. Cinque, 6818 16th Avenue, Brooklyn, N. Y.
Endorsed by George W. Gibbons anad Charles G. Quincy Wilcox.
David Dolisky, 1266 40th Street, Brooklyn, N. Y.
Endorsed by Eduart A. Kessler and Moses Spitz.
Margaret Robertson Bruce, 535 Seventy-third St., Brooklyn, N. Y.
Endorsed by Michael F. Corrigon and T. T. Whittier.
Michael Timpano, 1214 59th Street, Brooklyn, N. Y.
Endorsed by Charles F. Ryan and Raymond Gilliandrau.
Harry Wechsler, 1501 39th Street, Brooklyn, N. Y.
Endorsed by Adolf Simson and E. Y. Silverman.
Hans C. Kronika, 2265 Emmons Avenue, Brooklyn, N. Y.
Endorsed by Willard Amerman and H. W. Voorhies.
Samuel Korn, 22d Ave. and Gravesend Ave., Brooklyn, N. Y.
Endorsed by Henry H. Banks and Henry Salant.
Walter L. Vaughan, 243 Washington Ave., Parkville, Brooklyn, N. Y.
Endorsed by James A. Spillane and George Young.

By Alderman Brush—
Emil Altman, 316 West 112th Street, Manhattan.
Endorsed by Leon Frey and Jerome Kassewitz.
Samuel K. Ellenbogen, 134 Lawrence Street, Manhattan.
Endorsed by John J. Donovan and Raymond J. White.
Benjamin R. Price, 58 Morningside Avenue, Manhattan.
Endorsed by H. P. Callanan and A. V. Crespi.

By Alderman Burns—
George A. Hyman, 6 Pitt Street, Manhattan.
Endorsed by Max E. Eckmann and Wm. Jurkowitz.
Samuel Rabinowitz, 241 Henry Street, Manhattan.
Endorsed by Benjamin J. Levy and Louis W. Rosen.

By Alderman Carroll—
Morgan Jones, 132 East 56th Street, Manhattan.
Endorsed by P. McCormack and Jeremiah F. Sullivan.
John H. Higman, 166 E. 67th St., Manhattan.
Endorsed by Thomas E. Rush and T. F. Murphy.

By Alderman Chorosh—
Martin H. Crivy, 21 West 118th Street, Manhattan.
Endorsed by Jacob J. Lesser and Benjamin Rich.

Samuel A. Fuchs, 129 West 116th Street, Manhattan.
Endorsed by Jacob W. Zinaman and Jesse Myers.
Albert H. Wainess, 40 West 116th Street, Manhattan.
Endorsed by H. Young and Jacob Woling.
Julius Wallenberg, 165 Lenox Avenue, Manhattan.
Endorsed by Jacob J. Lesser and Joseph Queltner.

By Alderman Colne—
Oscar Schlueter, 19 St. Francis Place, Brooklyn, N. Y.
Endorsed by Louis Diemer and Isidor Simon.
William Oswald Leitch, 113 Hall Street, Brooklyn, N. Y.
Endorsed by William J. Gillen and David Mendez.
Egbert K. Van Beuren, 255 Emerson Place, Brooklyn, N. Y.
Endorsed by R. Clarence Dorsett and Charles H. Patrick.

By Alderman Cunningham—
Michael Leahy, 257 Hamilton Avenue, Brooklyn, N. Y.
Endorsed by Cornelius G. O'Brien and H. S. Bird.

By Alderman Diemer—
Joseph Feinson, 166 Vernon Avenue, Brooklyn, N. Y.
Endorsed by Philip J. Knobloch and Max Ehrlich.

By Alderman Dostal, Jr.—
Michael Tandlich, 158 East 7th Street, Manhattan.
Endorsed by Michael J. P. Klouda and Eugene Russ Ray.

By Alderman Eagan—
John J. McQuade, 675 Third Avenue, Manhattan.
Endorsed by Thomas F. Eagan and John T. Eagan.

By Alderman Eichhorn—
Paul Boesch, 304 Weirfield Street, Brooklyn, N. Y.
Endorsed by Charles H. Haubert and George H. Ott.
Joseph Loeb, 25 Hart Street, Brooklyn, N. Y.
Endorsed by Albert E. Oberg and Otto E. Leinert.
Ambrose Francis Hanlon, 155 Covert Street, Brooklyn, N. Y.
Endorsed by George H. Ott and Henry W. Edelmann.

By Alderman Ferrand—
Mary J. Ahern, 426 Park Place, Brooklyn, N. Y.
Endorsed by Fred M. Ahern and Charles W. Morehouse.

By Alderman Fink—
Walter Charles Ben. Scalesinger, 87 Bard Ave., Livingston, Richmond.
Endorsed by William D. Hill and G. Kraus.
Anna E. Ostrander, 444 Manor Road, West New Brighton, Richmond.
Endorsed by George W. Vroome and Henry Shabert.

By Alderman Hannon—
George H. Richardson, 224 West 10th Street, Manhattan.
Endorsed by Richard M. Greenbank and Albert Katz.

By Alderman Hogan—
William Peiser, 156 Prospect Park West, Brooklyn, N. Y.
Endorsed by Alfred D. Miller and B. P. Van Benthomson.
Joshua Tilden Cruser, 195 Clinton Street, Brooklyn, N. Y.
Endorsed by Waldo R. Blackwell and E. J. Atwood.

By Alderman Igstaedter—
William V. Goldie, 605 West 137th Street, Manhattan.
Endorsed by H. Harold Gumen and Grant Hoerner.

By Alderman Jacobson—
Louis Schwartz, 143 Forsyth Street, Manhattan.
Endorsed by Morris Packer and Max Herschkovitz.

By Alderman Kenneally—
Edward J. Halligan, 328 E. 19th Street, Manhattan.
Endorsed by John Dillman and W. A. Gramer.
Michael Smith, 532 East 12th Street, Manhattan.
Endorsed by S. H. Spear and Jos. I. Erenstoft.
John J. McGlynn, 261 1st Avenue, Manhattan.
Endorsed by Joseph D. Kelleher and William J. King.
John J. Haggerty, 343 East 19th Street, Manhattan.
Endorsed by James M. Donohue and Philip F. Donohue.

By Alderman Kenney—
Joseph L. Agolia, 642 President Street, Brooklyn, N. Y.
Endorsed by John Delegro and Dominick Bonacir.

By Alderman Kochendorfer—
John V. Hayer, 4841 Ashland Street, Richmond Hill, Queens.
Endorsed by J. C. Mordock and Francis Jordan.

By Alderman Lein—
George J. Weppler, 246 East 37th Street, Manhattan.
Endorsed by John P. Finnerty and Denis J. Buckley.
John Thomas McManus, 304 East 25th Street, Manhattan.
Endorsed by Charles I. Murphy and John Shea.

By Alderman Levy—
Louis Gottschalk, 194 Middleton Street, Brooklyn, N. Y.
Endorsed by William F. Haitz and Adolph Levy.

By Alderman McCourt—
James A. Mackey, 329 West 43d Street, Manhattan.
Endorsed by John C. Hackett and Peter J. Heagen.
John J. Dalton, 437 West 36th Street, Manhattan.
Endorsed by Patrick J. McGivney and John Smith.
Daniel F. Sullivan, 418 West 37th Street, Manhattan.
Endorsed by Thomas Costello and William Gavin.
William L. Ryan, 459 West 35th Street, Manhattan.
Endorsed by Thomas Costello and William Gavin.

By Alderman McCann—
B. F. Thomas, 213 West 53d Street, Manhattan.
Endorsed by John William Smith and Philip M. Thorne.

By Alderman McNally—
James O'Connor, 480 Timson Place, Bronx, N. Y.
Endorsed by Timothy Fitzgerald and James L. Devine.
Joseph Harry McNally, 576 East 141st Street, Bronx, N. Y.
Endorsed by W. A. Walls and James Dunn.
Aaron Levy, 669 Beck Street, Bronx, N. Y.
Endorsed by Karl Propper and Isidore Males.

By Alderman McNally—
Harry J. Berse, 410 East 145th Street, Bronx, N. Y.
Endorsed by Albert A. Schlosser and Frank A. Durjen.
Emanuel Schwartz, 1013 Faile Street, Bronx, N. Y.
Endorsed by James H. Cross and P. McCormack.

By Alderman Milligan—
Abraham I. Wexler, 204 Bush Street, Bronx, N. Y.
Endorsed by David L. Woodall, Jr., and Douglas Mathewson.

By Aldermana Chas. J. Moore—
Charles Sattler, 427 Railroad Avenue, Brooklyn, N. Y.
Endorsed by John E. McGarry and L. V. Fleckles.
Frank Rizzo, 852 Belmont Avenue, Brooklyn, N. Y.
Endorsed by James P. Sinnott and Michael J. Trudda.
Frederick Rueger, 116 Van Sicklen Avenue, Brooklyn, N. Y.
Endorsed by Altman H. Torborg and V. S. Henderson.

By Alderman Moran—
John McCord Storer, 786 Morris Park Avenue, Bronx, N. Y.
Endorsed by Albert C. Johnson and Gustave Efinger.

By Alderman Frank Mullen—
Phil. B. McCaffray, 510 West 147th Street, Manhattan.
Endorsed by Samuel Deane, Jr., and Charles Feinstein.
Frank C. Merklee, 320 West 145th Street, Manhattan.
Endorsed by Charles A. Glaser and James H. Cross.

By Alderman James F. Mullen—
Samuel Einsohn, 1659 Madison Avenue, Manhattan.
Endorsed by Michael Kaufman and Benjamin S. Rhine.
Julius J. Brosen, 53 East 97th Street, Manhattan.
Endorsed by Edward W. Hart and Edward H. Proscher.
Israel Sachs, 1431 Madison Avenue, Manhattan.
Endorsed by Isidor Schoen and Julius Drosin.
Harry A. Cohen, 1387 Fifth Ave., Manhattan.
Endorsed by Isidore Schleider and Isidor E. Schlessinger.

By Alderman Nugent—
George Aloyesius Furnival, 256 East 68th Street, Manhattan.
Endorsed by Charles L. O'Reilly and Kathryn B. O'Reilly.

By Alderman Ottes—
James E. O'Donnell, 538 East 89th Street, Manhattan.
Endorsed by Philip Lindeman and Hugh J. Begley.

By Alderman Post—
Otto D. Parker, 211 South 19th Street, Flushing, Queens.
Endorsed by William M. O'Keefe and T. J. Williams.

By Alderman Quinn—
George Eugene Clark, 170 West 65th Street, Manhattan.
Endorsed by James J. Hagan and Frank Donnelly.
Frederic P. Harris, 647 Amsterdam Avenue, Manhattan.
Endorsed by Joseph M. Kelly and Frank J. Ryan.
James J. Hagan, 172 West 82d Street, Manhattan.
Endorsed by George Eugene Clark and Frank Donnelly.
Joseph M. Kelly, 185 Amsterdam Avenue, Manhattan.
Endorsed by James J. Hagan and Henry W. Pollack.
Walter N. Lawrence, 56 West 71st Street, Manhattan.
Endorsed by Henry M. Munson and James M. Clancy.

By Alderman Robitzek—
Leo V. Nestor, 622 East 163rd Street, Bronx, N. Y.
Endorsed by Charles Welch and Alexander H. Gordon.
John A. Sanche, 2045 Hughes Avenue, Bronx, N. Y.
Endorsed by John B. Golden and Bernard F. Golden.
Solomon Horwitz, 1537 Fulton Avenue, Bronx, N. Y.
Endorsed by Wm. Rossman and Charles Wasser.

By Alderman Rosenblum—
Harry D. Nathanson, 189 Lavonia Avenue, Brooklyn, N. Y.
Endorsed by Isidor M. Rosenblum and Harry Schecker.
Henry A. Sternberg, 240 Hinsdale Street, Brooklyn, N. Y.
Endorsed by Louis Koenig and Isaac E. Epstein.

By Alderman Smith—
Frank R. Doran, 858 Lafayette Avenue, Brooklyn, N. Y.
Endorsed by John B. Hanson and John Naumer.
G. Storms Carpenter, 119 Quincy Street, Brooklyn, N. Y.
Endorsed by Isidor F. Greene and Meyer Dombeck.
Albert C. Aubery, 534 Madison Street, Brooklyn, N. Y.
Endorsed by Rufus T. Griggs and Edward L. Collier.

By Alderman Squiers—
Arthur A. Boyle, 803 Sterling Place, Brooklyn, N. Y.
Endorsed by Charles M. Swezey and R. Dean.
George W. Haas, 447 Evergreen Avenue, Brooklyn, N. Y.
Endorsed by Francis J. McBarron and Geo. A. Steves.
Anna Armstrong, 1464 New York Avenue, Brooklyn, N. Y.
Endorsed by Raymond J. White and Jeremiah F. Sullivan.
Frederic Dudley Kohler, 390 East 17th Street, Brooklyn, N. Y.
Endorsed by John D. Mahony and Albert L. Carr.
George A. Steves, 1425 President Street, Brooklyn, N. Y.
Endorsed by Francis J. McBarron and George W. Haas.

By Alderman Stevenson—
Harold G. Kohl, 297 Eleventh Street, Brooklyn, N. Y.
Endorsed by William J. Rowan and Alvin E. Luce.

By Alderman Taylor—
John B. Morrow, 890 Quincy Street, Brooklyn, N. Y.
Endorsed by Louis E. Felix and David J. Richner.
Allen Edwin Bresee, 673 Halsey Street, Brooklyn, N. Y.
Endorsed by G. A. Jurgensen and Geo. V. Quigley.

By Alderman Trau—
Joseph Sampson, 208 East 115th Street, Manhattan.
Endorsed by Jos. A. Brady and William Damilio.

By Alderman Valentine—
John A. O'Shaughnessy, 352 54th Street, Brooklyn, N. Y.
Endorsed by John F. Downey and Isaac F. Becker.

By Alderman Valentine—
Joseph DeCaro, 614 65th Street, Brooklyn, N. Y.
Endorsed by Bert L. Rich and Alex. R. Gage.
Charles Martin Johnson, 1223 56th Street, Brooklyn, N. Y.
Endorsed by John J. Meagher and J. Bernard Brophy.

By Alderman Weil—
George Dlugacz, 445 East 174th Street, Bronx, N. Y.
Endorsed by Alexander C. Spelbe and Louis Wisansky.

By Alderman Wendel—
William J. Kelly, 446 W. 51st St., Manhattan.
Endorsed by August Dreyer and Robert J. Cook.

Which was laid over.

No. 1958.

An Ordinance to Amend Subdivision 5 of Section 240 of Chapter 23 of the Code of Ordinances Relating to the Measurement of Vaults and Cisterns.

By Alderman Milligan—

AN ORDINANCE to amend subdivision 5 of §240 of chapter 23 of the Code of Ordinances relating to the measureemnt of vaults and cisterns.

Be it Ordained by the Board of Aldermen of The City of New York, as follows:

Section 1. Subdivision 5 of §240 of chapter 23 of the Code of Ordinances is hereby amended to read as follows:

5. Measurement. Every person for whom any vault or cistern may be in process of construction shall procure the same to be measured by a city surveyor, who shall deliver to the borough president granting the permit therefor a certificate of the measurement signed by such surveyor, accompanied by a diagram showing the complete dimensions of the same and its location relative to the nearest intersecting street corner, before the [construction] *arching, roofing or permanent covering* of such vault or cistern shall be commenced.

Section 2. This ordinance shall take effect immediately.

Which was referred to the Committee on General Welfare.

No. 1959.

An Ordinance Amending Chapter 1 of the Code of Ordinances by Adding a New Section, Numbered 3a, Relating to the Official Flag of the Borough of The Bronx.

By the Aldermen of The Bronx—

Be it Ordained by the Board of Aldermen of the City of New York as follows:

Section 1. Chapter 1 of the Code of Ordinances of the City of New York is hereby amended by adding thereto a new section, numbered 3a, to read as follows:

"*Section 3a.* The following design, which has been in use in the Borough of The Bronx since March, 1912, is hereby adopted as the design of the official flag of the Borough of The Bronx, to wit:

"Flag containing the colors orange, white and blue, arranged in horizontal bars of equal dimension, the orange being above, the white next and the blue below, with the following design in the centre, encircled with a laurel wreath greater in diameter than the width of the white stripe.

"Crest—Upon a hemisphere, an American eagle with wings displayed.

"Shield—The sun with shining rays rising from the sea.

"Legend—Upon a ribbon beneath the shield, the words 'NE CEDE MALIS.'

"The said colors shall be the same as those of the flag of the Netherlands in use in the year 1639."

Section 2. This ordinance shall take effect immediately.

Which was referred to the Committee on General Welfare.

Alderman Brush moved that the Board do now adjourn.

The President put the question whether the Board would agree with said motion.

Which was decided in the affirmative.

And the President declared that the Board stood adjourned until Tuesday, July 6, 1915, at 1.30 o'colck P. M.

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 June 28, 1915.

Thursday, July 1, 1915—11 a. m.—Room 305—Case No. 1965—Ocean Electric Railway Company—"Condition of roadbed, tracks and other property"—Commissioner Wood.

Friday, July 2, 1915—11 a. m.—Room 305—Case No. 1959—Long Island Railroad Company—"Alteration of crossing at Howard Avenue on Atlantic Division, Brooklyn"—Commissioner Cram.

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.

DEPARTMENT OF FINANCE.

WARRANTS MADE READY FOR PAYMENT IN DEPARTMENT OF FINANCE WEDNESDAY, JUNE 30, 1915.

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.	
83952		6-24-15	New York Telephone Co	$15 77
			Board of Assessors.	
80545	6-12-15	6-17-15	John Wanamaker, New York	$237 50
80546	5-10-15	6-17-15	The Globe Wernicke Co	420 70
			Art Commission.	
84401		6-25-15	New York Telephone Co	$9 26
			Commissioner of Accounts.	
82074	5-19-15	6-22-15	The Line-a-Time, John B. Tuft, Metropolitan Sales Manager	$8 00
			Armory Board.	
82695	5-26-15	6-22-15	Electric Construction & Supply Co	$67 46
82684	5-29-15	6-22-15	Agent & Warden, Sing Sing Prison	34 85
			Bellevue and Allied Hospitals.	
80451	3- 6-15	6-17-15	The Jamieson & Bond Co	$145 00
80453	5-11-15	6-17-15	The A. S. Boyle Co	261 00
80454	5- 8-15	6-17-15	Armour & Company	117 43
80449	5-10-15	6-17-15	John Bellman	149 60
81998	5- 8-15	6-24-15	The Queens County Water Co	16 80
80448	2-27-15	6-17-15	Conron Bros. Company	155 71
			County Court, Queens County.	
80553	5- 1-15	6-17-15	Heilbut & Kleefeld	$126 00
			Court House Board.	
69395		6-22-15	E. P. Goodrich, Esq	$500 00
			City Court of The City of New York.	
83169	6-16-15	6-23-15	A. Pearson's Sons	$2 25
			Surrogates' Court, New York County.	
83749		6-24-15	New York Telephone Co	$27 31
			County Clerk, New York County.	
83708			William F. Schneider, County Clerk	$100 00
83707		6-24-15	New York Telephone Co	30 61
			County Clerk, Queens County.	
83993		6-25-15	New York Telephone Co	$23 00
			Board of City Record.	
80595	6- 7-15	6-17-15	The New York Bank Note Co	$325 00
80594	5-20-15	6-17-15	American Bank Note Company	395 00
80592	5-22-15. 6- 3-15	6-17-15	The Trow Press	187 45
80591	5-17-15. 6-10-15	6-17-15	Koller & Smith Co.	164 70
80596	5-25-15. 6- 7-15	6-17-15	The Brooklyn Daily Eagle	1,000 90
80588	5-14-15. 6- 9-15	6-17-15	Remington Typewriter Co.	159 90
80582	5-25-15. 6- 8-15	6-17-15	P. J. Collison & Co	257 11
80581	5-20-15. 6- 9-15	6-17-15	P. J. Collison & Co	311 61
80578	6- 2-15	6-17-15	Stillman Appellate Printing Co	2,322 63
80579	6-14-15	6-17-15	The Evening Post Job Printing Office	1,166 17
80580	5-29-15	6-17-15	M. B. Brown Printing & Binding Co	1,107 18
			Department of Correction.	
83074	4-30-15	6-23-15	Municipal Garage	$48 01
83249	5-10-15	6-23-15	National Bridge Works	2 75
83248	5-22-15	6-23-15	Hull, Grippen & Co	70
83247	5- 6-15	6-23-15	William S. Haines Company	16 80
83246	5-17-15	6-23-15	The Fairbanks Co.	1 50
83091	5-24-15	6-23-15	Hull, Grippen & Co	5 00
83230	5-27-15	6-23-15	F. W. Devoe & C. T. Raynolds Co	75
83234	5-18-15	6-23-15	E. T. Joyce	3 00
83235	5-27-15	6-23-15	E. F. Keating Company	13 32
83237	5-14-15	6-23-15	W. R. Ostrander & Co	2 92
83238	4- 5-15	6-23-15	D. B. Pershall & Son	3 60
83239	5-14-15	6-23-15	D. C. Pullis	1 50
83241			Vought & Williams	4 69
83243	4-29-15	6-23-15	James Y. Watkins & Son, Inc	9 00
83232			Julius Fowl	5 63
83095	5-17-15	6-23-15	James H. Dunham & Co	8 71
83078	5-25-15	6-23-15	J. E. Linde Paper Co	44 14
83088	4-22-15	6-23-15	Peter J. Constant	85 80
83090	3-12-15	6-23-15	B. Phillipson	67 13
83097	5-27-15	6-23-15	Wm. H. Horstmann Company	40 00
			District Attorney, New York County.	
80388		6-17-15	David N. Carvalho	150 00
80392			Edward J. Shalvey	230 00
80391		6-17-15	Edward J. Shalvey	121 00
84214		6-25-15	E. J. Rhatigan	180 00
84212			The Schindler National Detective Agency, Inc.	38 35
83741	5- 7-15	6-24-15	James C. Archer	25 00
80399	5-18-15. 5-19-15	6-17-15	Frank Tourist Company	162 50
80394		6-17-15	W. Travis Gibb, M. D	100 00
			District Attorney, Bronx County.	
81871		6-21-15	Henry Martin	89 05
81875		6-21-15	George Bernard	11 50
81876		6-21-15	Bartley Clarke	2 50
81877		6-21-15	Robert Hamburger	5 50
81878		6-21-15	C. Howard	5 70
81883		6-21-15	Thomas F. Darcy	64 00
82681		6-22-15	James C. Cropsey, District Attorney	43 38
			District Attorney, Queens County.	
80151		6-16-15	T. J. Prendeville	11 52
			Board of Excise, Richmond County.	
83649			Michael W. Murphy, Special Deputy Commissioner of Excise	18 04
			Board of Elections.	
83265	5-31-15	6-23-15	Knickerbocker Ice Co	6 24
			Board of Estimate and Apportionment.	
83480	5-14-15	6-24-15	The Ohman Map Co., Inc	6 00
83479	6- 8-15	6-24-15	W. M. Murphy	1 80
83473	5- 5-15. 5-13-15	6-24-15	Commercial Copying Company	14 10
83472			The Tabulating Machine Company	10 50
83470			Shaw-Walker Company of New York.	10 76
83491			John F. Donovan, Examiner	11 52
			Department of Education.	
82320	5- 4-15	6-22-15	A. Berengarten	14 00
82315	5- 8-15	6-22-15	John H. O'Rourke Co	9 50
82316	4-27-15	6-22-15	Anton Orgelfinger	10 50
82317	5-17-15	6-22-15	H. Portenbach	6 00
82248	4-25-15	6-22-15	J. Kurzban	7 50
82249	5- 4-15	6-22-15	L. E. Atherton	10 00
82251	5- 1-15. 5- 3-15	6-22-15	Brooklyn Window Shade Co	66 04
82268	2- 6-15	6-22-15	The Library of Congress	28 87
82905	3-27-15	6-23-15	American Book Co	5 04
82902	3-15-15	6-23-15	Bloomingdale Brothers	90
82901	3-22-15. 4-30-15	6-23-15	Henry Lindenmeyer & Sons	7 50
82900	4-26-15	6-23-15	F. W. Devoe and C. T. Raynolds	16 83
82899	3-23-15	6-23-15	The Arabol Mfg. Co	8 00
82898			Fred'k Pearce Co	3 05
82893			Woldenberg & Schaar	58
82892	4-16-15	6-23-15	John Wanamaker, New York	4 82
82890	3-23-15	6-23-15	D. Van Nostrand Co	8 00
82889			Syndicate Trading Co	3 52
82888	5- 4-15	6-23-15	J. A. Zibell Co	90
82886	5- 4-15	6-23-15	Balfour & Koch Co	15 00
82883	3-29-15	6-23-15	Louis Dejonge & Co	3 60
82897	3-22-15	6-23-15	Montgomery & Co., Inc	5 98
82881			The Arabol Mfg. Co	57
82565	4-28-15	6-22-15	A. B. Dick Co	5 45
82564	3-19-15	6-22-15	The Macmillan Co	8 80
82563	3-20-15	6-22-15	J. E. Linde Paper Co	6 00
82568	2-17-15	6-22-15	J. & T. Adikes	5 25
82558	4-16-15	6-22-15	A. Vivack	52 64
82560	4-21-15	6-22-15	Colonial Steel Company	45 10
82894			American Type Founders Co.	22 63
82220	3-15-15	6-22-15	George Damon & Sons	44 97
83980	3-18-15	6-25-15	Hugh D. McGrane	10 00
82273	2-16-15	6-22-15	Joseph A. Graf	29 75
82272	5-19-15	6-22-15	John Gannon	79 00
82242	3- 6-15	6-22-15	Philip Garfinkel, assignee of William G. Hill	25 87
82240	4-23-15	6-22-15	Sharrotte & Schantz	27 90
82239	5-19-15	6-22-15	J. Friedman	16 00
82238	5-15-15	6-22-15	Brooklyn Window Shade Co.	5 96
82223	4- 8-15	6-22-15	American Type Founders Co.	14 62
82221	4-16-15	6-22-15	Syndicate Trading Co.	2 56
82218	4-12-15	6-22-15	F. C. Stechert Co.	7 56
82183			Frederick H. Schaupp	30 00
82214	4-15-15	6-22-15	George Pool & Son	16 50
81635	4-17-15	6-21-15	New York Construction Co.	28 00
81634	4-29-15	6-21-15	Morris Levi & Co.	64 00
82170	4-21-15	6-22-15	Samuel Gallucci	23 00
82169	5- 8-15	6-22-15	Agent and Warden, Auburn Prison	82 50
82213	5- 6-15	6-22-15	Sundh Electric Co.	6 00
82211	4-28-15	6-22-15	The Manhattan Supply Co.	24 00
82167	5-10-15	6-22-15	Schoverling, Daly & Gales	31 00
82210	3-20-15	6-22-15	The Globe-Wernicke Co.	22 95
82207	5-15-15	6-22-15	F. J. Kloes	13 55
82206			The Manhattan Supply Company	14 20
82203	5-14-15	6-22-15	The Globe-Wernicke Co.	6 80
82202	5- 4-15	6-22-15	Heywood Brothers & Wakefield Co	10 50
81659	4-29-15	6-21-15	Isaac Brenner	38 00
82199			Agent and Warden, Auburn Prison	13 00
81649			Garbutt & Co.	47 00
80255	6-10-15	6-17-15	Peter Cleary 39362	11,426 54
82292			Riker & Hegeman Co.	98
82340	5-11-15	6-22-15	Henry Tuke	14 50
82338	4-24-15	6-22-15	Charles Schultz	3 00
82337	4-23-15	6-22-15	Fischer Bros.	1 80
82336	4-27-15	6-22-15	H. Tasoff	18 00
82335	4-27-15	6-22-15	E. F. Daniels	3 00
82324	5- 1-15	6-22-15	Lewis H. Denton	9 00
82352	5- 5-15	6-22-15	Stephen C. Parker	3 00
82351	5- 8-15	6-22-15	Alex Burgess	9 00
82349	4-29-15	6-22-15	M. Weinberg	25 40
82348	4-20-15	6-22-15	R. & A. Isaacson	11 90
82347	5- 8-15	6-22-15	James B. Reilly	5 00
82346	5- 1-15	6-22-15	Henry Tuke	12 00
82345	4-30-15	6-22-15	Max Albrecht	18 00
82341	5-10-15	6-22-15	M. Weinberg	11 00
82339	4-23-15	6-22-15	Max Jackel	1 75
82502	2-19-15	6-22-15	The James Swan Co.	9 43
82501	4-12-15	6-22-15	The Fairbanks Co.	5 40
82500	3-31-15	6-22-15	Electric Hose & Rubber Co	34
82499			Frederick Pearce Co.	1 04
80251	6- 8-15	6-17-15	The Royal Company of New York, Assignee of Lazere Kaplan 40769	540 00
80256	6- 8-15	6-17-15	Wells & Newton Co. of New York 40454	1,629 00
79113	6- 1-15	6-15-15	James I. Newman 40240	434 00
79101	6- 7-15	6-17-15	E. Rutzler Co. 37028	256 00
80253	6- 7-15	6-17-15	E. Rutzler Co. 37028	9,250 00
79921			Abraham & Straus	156 00
82953	3-30-15	6-23-15	A. G. Spalding & Bros 41492	7 92
82989	2-26-15	6-23-15	The Prang Company 41219	1 56
82980	3-20-15	6-23-15	E. W. A. Rowles 41194	62
82955	3-18-15	6-23-15	Scientific Equipment Company 41678	33
82564	4- 5-15	6-23-15	Rauh Cutlery Co. 41218	2 25
82565	4- 3-15	6-23-15	Row, Peterson & Co 41655	14 52
82967	1-21-15	6-23-15	Sherwin Cody 41721	30 40
82963	4-12-15	6-23-15	G. P. Putnam's Sons 41723	1 25
82966	4- 2-15	6-23-15	W. H. Wheeler & Co 41642	66 83
82990	2-26-15	6-23-15	Tower Mfg. & Novelty Co 41195	6 00
82281	5- 7-15	6-22-15	Paul Baron	13 25
82288	4-24-15	6-22-15	G. Schirmer	9 50
82287	5- 3-15	6-22-15	Harper & Brothers	76
82285	2-19-15	6-22-15	Hoskins Mfg. Co.	39

Finance Voucher No.	Invoice Dates or Contract Number.		Received in Department of Finance.	Name of Payee.	Amount.
82284	4-26-15		6-22-15	Louis H. Chalif	2 50
82280	4-19-15.	4-30-15	6-22-15	Wm. P. Youngs & Bros.	1 38
82279	1-22-15.	4-14-15	6-22-15	Frederick Pearce Co.	9 97
82283	4-30-15		6-22-15	Underwood Typewriter Co.	6 50
82282	3-22-15		6-22-15	Parex Manufacturing Co.	10 80
82276				George Roach	14 80
82278	3-24-15		6-22-15	New York Calcium Light Co.	3 75
82334	5-15-15		6-22-15	C. M. Morgan, Dep. Sup. of School Buildings	31 55
82975	3-31-15	41183	6-23-15	E. Steiger & Co.	7 19
82972	3-25-15	41183	6-23-15	E. Steiger & Co.	52 80
82983	4-20-15	41380	6-23-15	A. G. Spalding & Bros.	7 53
82954	4- 5-15	41380	6-23-15	A. G. Spalding & Bros.	30 00
82957	3- 1-15	41742	6-23-15	Underwood Typewriter Co.	71 85
82977	3-29-15	41217	6-23-15	Stanley & Patterson, Inc.	12 82
82993	3-27-15	41217	6-23-15	Stanley & Patterson, Inc.	16 45
82952		41183		E. Steiger & Co.	1 35
82987		41183		E. Steiger & Co.	62
82982	3-24-15	41183	6-23-15	E. Steiger & Co.	1 17
80258		41484		The J. W. Pratt Co.	804 40
80259		41461	6-17-15	The J. W. Pratt Co.	630 44
84181			6-25-15	Geo. W. Goeller, Jr.	42 86
80252	6- 8-15	42322	6-17-15	The Haupt Paint & Hardware Co.	517 50
80254	6-10-15	40342	6-17-15	New York Construction Co.	4,500 00
82978	3-24-15	41677	6-23-15	Standard Scientific Co.	7 32
82974	3-27-15	41124	6-23-15	M. J. Tobin	7 18
82962	3-10-15	41124	6-23-15	M. J. Tobin	46 86
82960		41206	6-23-15	Wm. Zinsser & Co.	3 04
82958		41241	6-23-15	Fred'k Pearce Co.	12 50
82979		41351	6-23-15	Scientific Equipment Co.	22 74
82956	3- 2-15	41532	6-23-15	Schoverling, Daly & Gales	37 37
82985	4- 7-15	41206	6-23-15	Wm. Zinsser & Co.	3 40
82991		41351	6-23-15	Scientific Equipment Co.	3 60
82970	4- 7-15	41646	6-23-15	The Baker & Taylor Co.	3 00
82968	4- 3-15	41661	6-23-15	C. H. Congdon	44 32
82969	3-19-15	41654	6-23-15	The Century Co.	54 24
				Fire Department.	
83801	5-13-15		6-24-15	Detroit Cadillac Motor Car Co.	$14 30
83796	5-27-15		6-24-15	The A. G. Roebuck Co.	19 20
83795	5- 5-15		6-24-15	R. L. Polk & Co., Inc.	24 00
83794	5- 6-15		6-24-15	Welding Supply Co., Inc.	5 12
83792				Manhattan Supply Co.	13 40
83791	5-26-15		6-24-15	The Oil Marketing Co.	17 17
83790				James A. Miller	16 70
83788				American Hand Laundry	1 10
83787	5-29-15		6-24-15	Great Bear Spring Co.	1 20
83796	5-28-15		6-24-15	Crown Stamp Works	55
83803	5-14-15		6-24-15	Knickerbocker Supply Co.	7 10
				Department of Finance.	
84398				C. W. Dellett	$75 00
84396				Jeanne M. Copeland	83 33
84397				William H. Reynolds	116 66
84395				Amelia M. Malone	60 00
84394				Queens Plaza Court, Inc.	60 00
84393				Mary Olmstead	83 33
84392				Ernest G. Hothorn, as Assignee of Gustave Stelle	120 00
84391				Roxton Realty Co.	1,250 00
84390				Pietro Alvino and Carmine Marasco, as Executors under the Last Will and Testament of Rocco M. Marasco, Deceased	234 00
84389				Henry J. Ahrens	375 00
84388				William Henderson	875 00
84387				Mrs. Antonio Reitz	250 00
84122				The Philanthropin Hospital	137 80
84123				The Ozanam Home for Friendless Women	519 26
84120				The New York Throat, Nose and Lung Hospital	302 30
84121				The New York Throat, Nose and Lung Hospital	177 85
83961			6-25-15	Joseph C. Campbell	15 00
85134			6-26-15	James Dobbins, as Attorney in Fact for John Dobbins	240 00
85135			6-26-15	Daniel Shea	60 00
83764				William C. Bergen	403 12
83763				William C. Bergen	1,031 25
83754				Cord-Meyer Development Co.	1 00
83752				James W. Stephens, as Sole Surviving Executor of the Estate of Stephen D. Stephens	12 50
83762				J. Clarence Davies	180 00
83761				William C. Bergen	178 12
83760				Georgianna L. McClellan and Emeline D. Winthrop	225 00
83759				Valerie I. Steves and Jennie L. Kern.	100 00
83757				Joseph Gelson	5 00
83756				Catharine Clary and Helen F. Donohue	498 00
73754				Cord-Meyer Development Co.	1 00
73753				Douglas Realty Co.	250 00
83752				James W. Stephens, as sole surviving executor of the Estate of Stephen D. Stephens	12 50
83615			6-24-15	Viclaw Mucha	64 06
83614			6-24-15	Viclaw Mucha	96 60
83616				Jacob Holleritter, as general guardian jointly with Harry V. Hoyt, of the infants John Holleritter and Anna Holleritter	48 02
83617			6-24-15	Jacob Holleritter, individually	48 01
83710			6-24-15	Julianna Rodemeyer	59 26
83711			6-24-15	Adam A. Schopp	217 00
83620			6-24-15	Anna Adamec, or Collector of Assessments & Arrears	280 65
83619			6-24-15	Donly Deacon	132 35
83618			6-24-15	William A. Hagman & Mary C. Hagman	97 86
84119				The Convent of the Sisters of Mercy in Brooklyn	16,917 87
84118				The Hospital of the Holy Family	1,106 00
84117				St. Malachy's Home	10,965 41
84116				St. Joseph's Asylum	5,011 44
84115				Sacred Heart Orphan Asylum	1,987 25
84114				New York Magdalen Home	1,489 89
84113				New York Magdalen Home	1,448 53
84112				New York Post-Graduate Medical School and Hospital	2,072 84
84111				Lincoln Hospital and Home	5,975 42
84110				Knickerbocker Hospital	902 75
84109				Dominican Convent of Our Lady of the Rosary	12,993 02

Finance Voucher No.	Invoice Dates or Contract Number.		Received in Department of Finance.	Name of Payee.	Amount.
84108				Deutsche Poliklinck Dispensary	250 00
85107				Council Home for Jewish Girls	189 04
84106				Church Charity Foundation of Long Island, Orphan House	608 93
84105				Brooklyn Eastern District Dispensary and Hospital	492 12
84104				Brooklyn Home for Blind, Crippled and Defective Children	4,336 97
84103				Brooklyn Training School and Home for Young Girls	456 43
83755				C. Henry Offerman, or Theodore Offerman, Attorneys in Fact for C. Henry Offerman, Lena Maria Rasch, Anna C. Schmidt, John Offerman and Theodore Offerman	356 25
83758				Mary E. Campbell, Mary Campbell, Sadie Campbell, Susan Campbell Kiernan and Alice Campbell Good	896 87
83696				Frank P. Lauer	120 00
83697				Model Fireproof Tenement Co.	45 00
83698				Frederick H. Jolivette	75 00
83699				Chauncey Real Estate Co., Ltd., as Agent for the Brooklyn Daily Eagle	195 00
83700				Martin Walter	135 00
83766				Emigrant Industrial Savings Bank	435 60
83765				Emigrant Industrial Savings Bank	3,027 00
82750			6-22-15	Gering Bros.	38 00
82748	6-18-15		6-22-15	Dunn Jewelry Co.	2 50
82753	6-16-15		6-22-15	Fallon Law Book Co.	3 60
82755	6-16-15		6-22-15	David Mackay, Jr., Co.	6 50
80422			6-17-15	National Surety Co.	164 00
81985			6-17-15	John F. Rogers	790 00
81986			6-17-15	John A. Rapelye	305 00
81987			6-17-15	Stephen H. Voris	825 00
				Department of Health.	
80615				Watson's Club Garage	$52 30
83327	4-10-15.	5-14-15	6-23-15	Standard Oil Co. of New York	39 30
83323	4- 9-15		6-23-15	The Holbrook Mfg. Co.	31 52
83311	3- 4-15		6-23-15	E. Schwartz	5 50
83326	3-31-15		6-23-15	Knickerbocker Ice Co.	9 15
83329	5-18-15		6-23-15	Progressive Paper Products Co.	9 51
83330	6- 2-15		6-23-15	Montague Mailing Machinery Co.	6 00
83331	4-17-15		6-23-15	The American Food Journal	1 00
83335	5-28-15		6-23-15	William R. Jenkins Co.	3 60
83336	5-24-15		6-23-15	New York Frame & Picture Co.	1 60
83308	5- 1-15		6-23-15	Massachusetts General Hospital	5 00
80630	5-15-15.	5-18-15	6-17-15	Agent and Warden of Clinton Prison	114 50
80631	5-15-15		6-17-15	Bloomingdale Bros.	170 19
80613	5-22-15		6-17-15	A. C. Barnes Co.	128 25
80641	4-30-15	42052	6-17-15	Shults Bread Co.	477 16
80650		26014	6-17-15	Products Manufacturing Co., assignee the Vana Iderstine Co.	3,750 00
80648	4-30-15	42055	6-17-15	Borden's Condensed Milk Co.	125 58
80649	4-14-15	41729	6-17-15	John W. Peale	3,430 12
83298	6- 1-15		6-23-15	M. T. Kenny	28 50
81092	4-30-15		6-18-15	Municipal Garage	57 46
83328	5-24-15		6-23-15	Standard Oil Co. of New York	39 12
83324	5-11-15		6-23-15	James A. Miller	39 37
83318				E. R. Squibb & Sons	80 00
80633	5-15-15.	5-24-15	6-17-15	The Manhattan Supply Co.	45 86
				Department of Licenses.	
82456	6-15-15		6-22-15	R. & H. Strachan	$5 25
82455	2- 3-15		6-22-15	Underwood Typewriter Co., Inc.	75
82454	5-22-15		6-22-15	The Banks Law Publishing Co.	9 45
				Law Department.	
80575		42103	6-17-15	New York Telephone Co.	$1,193 41
82998	6-11-15		6-23-15	A. Rudolph	7 50
82994	6- 1-15		6-23-15	The Crescent Towel Supply Co.	1 80
80058			6-16-15	Frederick Meakin	36 90
82995	5- 6-15.	5-26-15	6-23-15	Tower Manufacturing & Novelty Co.	25 90
82355	4-20-15		6-22-15	W. F. Olpp	50 00
82359				M. B. Brown Printing & Binding Co.	42 75
				The Mayoralty.	
83646			6-24-15	New York Telephone Co.	$30 48
83647			6-24-15	New York Telephone Co.	9 89
83154	6- 9-15.	6-16-15	6-23-15	The American Law Book Co.	14 00
83147	5-29-15		6-23-15	Yawman & Erbe Mfg. Co.	3 20
83148	5-31-15		6-23-15	John Manning	12 20
83151	5-31-15		6-23-15	The Briarcliff Lodge Association	2 55
83150	5-31-15		6-23-15	Foster Scott Ice Co.	6 50
82149	5-31-15		6-23-15	New York and Brooklyn Towel Supply Co.	4 20
				New York Public Library.	
82911			6-24-15	The New York Public Library, Astor, Lenox and Tilden Foundations, United States Trust Co. of New York, Assistant Treasurer	$1,279 29
82910			6-24-15	The New York Public Library, Astor, Lenox and Tilden Foundations, United States Trust Co. of New York, Assistant Treasurer	65,033 12
				Bronx Parkway Commission.	
82631	5- 5-15.	6- 2-15	6-22-15	Gulf Refining Co.	$20 55
82623	4-16-15		6-22-15	Chesebro Whitman Co., Inc.	21 00
82605	6- 5-15		6-22-15	W. E. & W. I. Brown	30 00
				Department of Parks.	
81671	5-22-15.	6- 3-15	6-21-15	Arnold Levien Iron Works	$29 80
83466	6- 1-15		6-23-15	New York Stencil Works	37 50
83451	6- 4-15.	6-17-15	6-22-15	Whitehorn Bros.	69 15
83448				Geo. W. Reinhardt & Co.	53 30
82725	6- 4-15		6-22-15	Pure Oil Co.	21 75
82718	6- 4-15		6-22-15	Schieffelin & Co.	53 44
82729				J. S. Woodhouse Co., Inc.	23 10
82741	6- 7-15		6-22-15	Patterson Bros.	10 50
82740	5-14-15		6-22-15	The George Taylor Brass & Bronze Works, Inc.	8 40
82739	5-19-15		6-22-15	The J. L. Mott Iron Works	2 50
82738	6- 1-15		6-22-15	Wright Wire Co.	8 46
82736	5-15-15		6-22-15	Manhattan Hardware & Bicycle Co.	1 05
82735	6- 8-15		6-22-15	Oilworks, L. Sonneborn Sons, Inc.	14 00
82734	5- 6-15		6-22-15	The Yale & Towne Mfg. Co.	15 60
82732	5-17-15		6-22-15	Neal & Brinker Co.	6 09
82731	6- 4-15		6-22-15	John Wanamaker, New York	3 00
82730	6- 7-15		6-22-15	James S. Barron & Co.	11 70
80230		42130	6-17-15	C. F. Mentzinger's Son	3,952 78
82716	5-27-15		6-22-15	Globe-Wernicke Co.	5 25
82717	5-31-15		6-22-15	Orange County Milk Association	12 40
82721				Royal Typewriter Co., Inc.	3 50
82720	5- 6-15		6-22-15	Asa L. Shipman's Sons	5 76

Finance Voucher No.	Invoice Dates or Contract Number.		Received in Department of Finance.	Name of Payee.	Amount.
82722	6- 9-15		6-22-15	The Cudahy Packing Co	8 25
82724	6- 1-15		6-22-15	Schoverling, Daly & Gales	3 95
				Police Department.	
81731	6- 1-15		6-21-15	The Queens County Water Company.	9 15
81668			6-22-15	Welsbach Gas Lamp Company	24 50
80271				Astor Sponge & Chamois Co	201 25
80261	4- 1-15		6-17-15	Burns Brothers	193 46
80272	5-27-15		6-17-15	New York Sporting Goods Co	139 00
80284	5-14-15		6-17-15	New York Sporting Goods Co	2,850 00
80285	5-27-15		6-17-15	New York Sporting Goods Co	925 00
80280	5-27-15		6-17-15	New York Sporting Goods Co	875 00
80295	5-17-15		6-17-15	Climax Stationery Co	237 50
80262	5- 7-15.	5-15-15	6-17-15	The J. W. Pratt Company	273 43
80287				S. and E. Engineering Co	100 00
80289	5-21-15		6-17-15	Wright Wire Company	110 00
80291	4-13-15		6-17-15	Rutherford Rubber Company	671 50
83375	6- 1-15		6-23-15	Harry E. Booth	14 50
83376	6- 1-15		6-23-15	Thomas Crimmins Contracting Co	90 00
80299	5-12-15		6-17-15	Marquard, Fay Co., Inc	722 00
				President of the Borough of Manhattan.	
85047			6-26-15	Thomas J. Tuomey & James M. Vincent	1,006 75
85046			6-26-15	Frank J. Callaghan and James M. Vincent	92 19
85045			6-26-15	Bryant Real Estate Co. and James M. Vincent	79 00
82742				Department of Water Supply, Gas and Electricity	24 50
83736				Agent and Warden of Auburn Prison	7 77
80540	1- 2-15.	2-28-15	6-17-15	John A. McCarthy & Brother	395 90
80538	5-10-15.	5-13-15	6-17-15	Uvalde Contracting Co	165 85
80539	5-25-15		6-17-15	Harlem Contracting Company	103 91
80542	6- 7-15		6-17-15	J. Leopold & Co	561 00
80520	5-26-15		6-17-15	J. Leopold & Co	264 00
80521	6- 7-15		6-17-15	J. Leopold & Co	450 00
80529	4-30-15		6-17-15	United States Wood Preserving Company	115 48
81768	6- 4-15		6-21-15	Meyer-Denker-Sinram Co.	13 50
81766	6- 1-15		6-21-15	William F. Cunningham	11 70
81767	6- 2-15		6-21-15	W. J. Fitzgerald	89 35
				President of the Borough of The Bronx.	
80671			41357 6-17-15	Nicholas De Menna	3,669 19
80674			42390 6-17-15	Briggs & McLaughlin Cont. Co	165 39
83411	4-27-15		6-21-15	William A. Prendergast, Comptroller of The City of New York, Trustee for Account of Street Opening Fund	610 50
80673			41018 6-17-15	James Buckley	1,664 56
80672			39173 6-17-15	Mendelson Bros., assignees of Pheon Contracting Co.	4,114 68
				President of the Borough of Brooklyn.	
80705			37394 6-17-15	John M. Fox	$3,041 75
80705			37394 6-17-15	M. Ryan Company, assignee of John M. Fox	1,000 00
81546	4-30-15		6-19-15	Cranford Co.	38 50
82768	6-11-15		6-22-15	American Law Book Co.	6 50
82767	6-11-15		6-22-15	American Law Book Co.	7 50
82780	6- 8-15		6-22-15	Harris & Wellenkamp	11 96
82765	6-11-15		6-22-15	Samuel Kaplan	1 00
82766	6-14-15		6-22-15	Cook Electric Co.	6 00
82769	6-16-15		6-22-15	The Haynes Automobile Co. of New York	6 98
82777	5-31-15		6-22-15	Municipal Garage	3 20
				President of the Borough of Queens.	
83040	3-18-15		6-23-15	Edward E. Buhler Co.	$73 25
83031	6- 1-15		6-23-15	Herbert Givin Company	75 00
83044	5-29-15		6-23-15	C. J. Tagliabue Mfg. Co.	11 00
83039				W. A. Duncan	18 50
83036	6- 9-15		6-23-15	C. A. Willey Co.	15 00
83037	6-11-15		6-23-15	Elmhurst Coal Co.	9 00
83038	6- 4-15		6-23-15	Louis Bossert & Son	17 50
83033	6- 1-15		6-23-15	Chas. Hvass & Co., Inc.	2 00
83024	5-22-15		6-23-15	Charles J. Brown	12 28
83025	6-10-15		6-23-15	William Sierks	5 25
83026	5-25-15		6-23-15	Department of Correction	10 80
83022	6- 1-15		6-23-15	Jamaica Auto Garage	17 39
82840	5-31-15		6-22-15	Lemmey Garage, Inc.	21 40
83018	6- 5-15		6-23-15	Agent and Warden, Clinton Prison	9 00
83020	5-31-15		6-23-15	Charles J. Brown	5 25
83017	5-29-15		6-23-15	Great Bear Spring Co.	24 30
82798	5-22-15		6-22-15	P. Trainor & Co.	6 00
82794	6- 7-15		6-22-15	W. A. Duncan	3 00
82790	5-29-15		6-22-15	Charles Greffrath Co.	2 50
82786	5-25-15		6-22-15	Edward E. Buhler Co.	65 40
82868	5-27-15		6-22-15	The Long Island Hardware Co.	6 20
82867	5-29-15		6-22-15	The Long Island Hardware Co.	4 50
82864	6- 7-15		6-22-15	E. Belcher Hyde	12 50
82861	5-29-15		6-22-15	Charles Greffrath Co.	23 90
82860	5-29-15		6-22-15	Charles Greffrath Co.	1 95
82856	5-31-15		6-22-15	Crescent Garage	7 45
82852	6- 1-15		6-22-15	W. F. Sheehan	1 80
82851	5- 1-15		6-22-15	Jamaica Auto Garage	7 50
82842	5-31-15		6-22-15	Charles J. Brown	5 25
82834	6- 1-15		6-22-15	Jamaica Ice Co.	10 92
82833	5-29-15		6-22-15	Great Bear Spring Co.	12 60
82829	5-29-15		6-22-15	Duplicator Mfg. Co.	7 50
82828	5-27-15		6-22-15	The Long Island Hardware Co.	2 75
82835				Long Island Star Publishing Co.	27 25
83923	6-19-15		6-24-15	William J. Murray	5 00
82810	6- 1-15		6-22-15	Jamaica Auto Garage	20 00
83046	6- 8-15		6-23-15	Fritz Hartmann	10 50
83021	6-11-15		6-23-15	The Madison Avenue Stables	12 53
82788	5-27-15		6-22-15	The Long Island Hardware Co.	6 89
82787	5-24-15		6-22-15	Western Electric Co.	8 36
82866	5-29-15		6-22-15	Chas. Greffrath Co	12 34
82857	4-30-15.	5-29-15	6-22-15	The Long Island Hardware Co	96 63
82844				Charles J. Brown	55 94
82799	6- 1-15		6-22-15	Ned Morris	4 00
82800	4-30-15		6-22-15	Remington Typewriter Company	15 00
82816	6- 1-15		6-22-15	Jamaica Auto Garage	20 00
83929		721		Eon Engineering & Contracting Co	306 00
164197	12-10-14	40606	12-18-14	The Good Roads Machinery Co	2,750 00
				President of the Borough of Richmond.	
80249	4-23-15		6-17-15	The J. L. Mott Iron Works	$331 50
80245	5- 5-15		6-17-15	T. J. Mullen	229 00
				Public Service Commission.	
80436		40317	6-17-15	Flinn, O'Rourke Co., Inc., Assignee of Booth & Flinn, Ltd., and O'Rourke Engineering Construction Co.	$137,145 42

Finance Voucher No.	Invoice Dates or Contract Number.		Received in Department of Finance.	Name of Payee.	Amount.
80444	38945		6-17-15	Rapid Transit Subway Const. Co	4,433 00
80439	40885		6-17-15	Rapid Transit Subway Const. Co	49,682 11
80437	37711		6-17-15	The Snare & Triest Co	25,857 34
80440	38425		6-17-15	United States Realty and Improvement Co., Assignee of Canavan Brothers Company	3,193 19
80442	40383		6-17-15	Rapid Transit Subway Construction Co.	30,145 25
80445	40384		6-17-15	Flinn, O'Rourke Co., Inc., Assignee of Booth & Flinn, Ltd., and O'Rourke Engineering Construction Co.	4,300 20
80441	40385		6-17-15	Holbrook, Cabot & Rollins Corp	1,421 43
80435	31545			Bradley Contracting Co.	14,733 00
80433	31544			Bradley Contracting Company	24,771 69
80434	31546		6-17-15	Bradley Contracting Co.	14,212 80
80438	35720		6-17-15	E. E. Smith Contracting Co	52,286 73
80443	38423		6-17-15	Degnon Contracting Company	2,663 71
				Department of Public Charities.	
80382	41611			The New York Telephone Co	$838 65
80378	41472			Knickerbocker Ice Co.	411 37
80373	6- 1-15	42229	6-17-15	Morris & Company	4,454 78
79397	3-11-15.	5-11-15	6-15-15	Hull, Grippen & Co	128 53
76981				Title Guarantee & Trust Co., Assignee of Paul Schaad	154 12
76981				Paul Schaad	6 19
77090	3-23-15.	4-15-15	6-10-15	Lux Manufacturing Co.	183 50
77222	5-20-15		6-10-15	Frank J. Fee	274 00
80312				Powers-Weightman-Rosengarten Co.	374 73
80333	4-30-15		6-17-15	John Greig	204 70
80336	4-30-15		6-17-15	The Hoffman-La Roche Chemical Wks.	135 80
80332	4-30-15		6-17-15	Fritzsche Brothers	182 50
80315	5- 8-15		6-17-15	Standard Oxygen Co.	136 75
80330	5- 3-15		6-17-15	Merck & Co., New York	168 45
80326	4- 8-15		6-17-15	McKesson & Robbins	213 90
80313	5- 3-15		6-17-15	Eimer & Amend	124 50
80329	4-28-15.	4-30-15	6-17-15	Magnus, Mabee & Reynard, Inc	107 550
80308	5-13-15		6-17-15	The American Distributing Co	405 22
80351	3-31-15		6-17-15	James T. Dougherty	148 17
80364	5- 6-15		6-17-15	The John C. Orr Co	300 08
80307				James A. Miller	285 04
80350				Gimbel Brothers	228 59
80359	2- 1-15		6-17-15	George R. Gibson Co	120 75
80353				Waite & Bartlett Mfg. Co	155 00
80352	5- 3-15		6-17-15	Wappler Electric Mfg. Co., Inc	187 00
80371	5-31-15	42049	6-17-15	T. J. Taylor Milk Co	953 52
80372	5-31-15	42054	6-17-15	J. D. Stout & Co.	582 17
80650		26014		Products Mfg. Co., Assignee of The Van Iderstine Co.	3,750 00
80377	4- 1-15	40936	6-17-15	Pattison & Bowns	1,150 07
80305	5-27-15.	6- 3-15	6-17-15	Henry Ebbighausen	141 57
80306	5-20-15.	5-27-15	6-17-15	Westchester Fish Co.	127 22
80367	5-13-15.	5-24-15	6-17-15	Abraham & Straus	438 40
80365	2-26-15.	5-10-15	6-17-15	E. T. Joyce	629 42
83953				William J. Doherty, Second Dep. Comr.	26 53
83954				Dr. C. B. Bacon, Med. Supt	22 15
83958				Wm. Alberti Whiting, Dep. Supt	6 68
80374	5-29-15	42221	6-17-15	George F. Hinrichs & Co., Inc	523 63
80375		42053		Conron Bros. Co.	110 41
80376	5-22-15	42228	6-17-15	John Bellmann	867 00
				Sheriff, Kings County.	
83252	5-29-15		6-23-15	Great Bear Springs Co	$9 00
				Sheriff, New York County.	
84102			6-25-15	Park-Potter Co.	$50 00
83750				Daniel J. Dowdney, Clerk of the Court	188 60
78523			6-12-14	Union Towel Supply Co.	22 22
				Department of Street Cleaning.	
82091	4-23-15.	5-17-15	6-22-15	Robert Gordon & Son, Inc	94 20
82093	6-11-15		6-22-15	Olin J. Stephens	34 70
82101	5- 5-15		6-22-15	Flatbush Waterworks Co.	12 18
82102	4-16-15		6-22-15	Flatbush Waterworks Co.	17 42
82092	4- 1-15		6-22-15	Olin J. Stephens	27 00
82425				The Peerless Towel Supply Co	9 38
84101				The Relief and Pension Fund of the Department of Street Cleaning, J. T. Fetherston, Commissioner, as Treasurer and Trustee	135 72
82426	5- 1-15		6-22-15	Nicholas Sabino	3 86
82422	4-13-15		6-22-15	Kimball Electric Lamp Co	2 25
82094	2-27-15		6-22-15	Knickerbocker Towel Supply Co	26 83
				United States Volunteer Life Saving Corps.	
83867				Joseph Merz	$4 45
83870	6-16-15		6-24-15	Edward F. Otto	81
83871			6-24-15	Ida Osborne, Secretary	15 06
83866			6-24-15	Fred C. Mills	5 10
				Board of Water Supply.	
82406	6- 2-15		6-22-15	Costello & Dugan	$17 04
82404	6- 1-15		6-22-15	C. V. Ennist	15 55
82402	6- 5-15		6-22-15	Wm. A. Geis	23 25
82400	6- 1-15		6-22-15	William Nelson	11 06
82393				Morris Pratt	8 60
82399	5- 1-15		6-22-15	New York Sporting Goods Co	9 13
82394	6- 5-15		6-22-15	W. L. Post & Son	5 78
80560	5-31-15		6-17-15	Forsyth & Davis	137 00
80570	6- 5-15		6-17-15	Seabury & Northrop, Inc	655 36
83938			6-24-15	New York Telephone Co	10 27
83940	5-31-15		6-24-15	Joseph F. Hartman	30 00
83942	5-31-15		6-24-15	Hiram F. Whitney	50 00
82412	6-14-15		6-22-15	William Bratter & Co	9 75
83937	5- 1-15.	6- 1-15	6-24-15	Kingston Gas & Electric Co	2 00
80651		40171	6-17-15	Transit Construction Co	4,254 52
80652		37240	6-17-15	State Highway Construction Co	47,022 77
82374	5-28-15		6-22-15	Standard Chain Co	6 37
83935			6-24-15	C. G. Young	31 72
83934			6-24-15	Chas. P. Berkey	8 47
				Department of Water Supply, Gas and Electricity.	
78783	6- 2-15		6-14-15	United Dressed Beef Co. of New York	$21 00
82479	6- 8-15		6-22-15	G. W. Bromley & Co	5 00
80504	6- 3-15		6-17-15	Charles O'Hara Co., Inc	187 50
80669			6-17-15	William Briggs	117 00
80498	3- 9-15.	4- 8-15	6-17-15	New York & Queens Electric Light & Power Co.	110 81
82464	4-30-15		6-22-15	Welsbach Gas Lamp Co	1 50
82465	4-30-15		6-22-15	Welsbach Gas Lamp Co	3 70
82466	3-31-15		6-22-15	Welsbach Gas Lamp Co	4 90
82468	3-15-15		6-22-15	Welsbach Gas Lamp Co	70
82467	3-31-15		6-22-15	Welsbach Gas Lamp Co	10 75
83371			6-23-15	Thomas Bennett	75 00
83702				Flora M. Bowers	1 50
82458	5-17-15		6-22-15	General Electric Co	14 86

VOUCHERS RECEIVED IN DEPARTMENT OF FINANCE, WEDNESDAY, JUNE 30, 1915.

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 or Contract Date Number.	Name of Payee.	Amount.
		Armory Board.	
86320	11-30-14	Wear Proof Mat Co.....	$104 10
86321	6-19-15	John S. Conabeer	32 25
86322	6-19-15	John S. Conabeer	12 90
86323	6- 7-15	Cavanagh Brothers & Co...	33 70
86324	6-14-15	Department of Public Charities	38 55
86325	5-25-15	Department of Public Charities	20 25
86326	6-17-15	Cavanagh Brothers & Co...	6 00
86327	6- 5-15	John Simmons Co.....	1 31
86328	6-22-15	Cavanagh Brothers & Co...	17 50
86329	6-17-15	Cavanagh Brothers & Co...	22 50
86330	6- 8-15	C. F. Rattigan, A. & W., Auburn	1 62
86331	6-17-15	Cavanagh Brothers & Co...	7 20
86332	6-11-15	Corona Typewriter Co., Inc.	50 00
86333	6-17-15	Cavanagh Brothers & Co...	6 75
86334	6- 8-15	T. J. Cummins Pblg. Co....	65 27
86335	6-17-15	T. E. Quinn	62 00
86336	5-19-15	C. L. Dooley, Inc.	12 00
86337	6- 3-15	E. J. Electric Installation Co.	77 00
		Department of Bridges.	
86287	41912	Logan Const. Co., Inc.....	359 10
86338		Calvin I. Crocker	73 34
		Board of Coroners.	
86368	5-31-15	New York Telephone Co...	$24 82
86369		Carl Voegel	68 75
86370		Carl Voegel	13 01
86371		Daniel M. Ebert	7 95
86372		Albert Humm	9 30
86373		Albert Humm	13 50
86374		Frederick J. Weber	11 15
86375		Francis B. Hart	29 80
86376		Daniel M. Ebert	66 25
		Surrogate's Court, Kings County.	
86219	6- 1-15	Clynta Water Co.	4 20
86220	6- 1-15	Patrick Dougherty	2 00
86221		Crescent Towel Supply Co.	3 00
86223	6-10-15	Fallon Law Book Co.....	28 80
86223	4-30-15	New York Telephone Co...	28 02
		County Clerk, New York County.	
86231	6-30-15	The Banks Law Pub. Co....	24 50
		District Attorney, New York County.	
86224		Daniel W. Clare	$21 45
86225		Bernard A. Flood	21 00
86226		James J. Gegan	56 40
86227		Frank Tourist Co.	227 75
86228		Louis Holzfurtner	144 42
86229		Broadway Central Hotel....	6 00
86230		John J. Buckley	140 65
		Board of Estimate and Apportionment.	
86291	5-29-15	A. B. Dick Co.	3 50
86292	5-25-15	A. B. Dick Co.	11 00
86293	6-12-15	American Distributing Co., James A. Webb & Son.....	11 40
86294	6-11-15	Eimer & Amend	6 10
86295	6-18-15	Eimer & Amend	4 50
86296	6- 3-15	Eimer & Amend	1 80
86297	5-15-15	The Linde Air Products Co.	6 00
86298	6-15-15	Merck & Co.	13 81
86299	6-22-15	A. Rudolph	4 50
86300	6-16-15	George J. McFadden	60 17
86301	6-14-15	Erdle Perforating Co.	2 00
86302	6-14-15	Carnegie Steel Co.	1 00
86303	6-18-15	Eimer & Amend	12 35
86304		Gottlieb Greiner	21 00
86305	6- 9-15	Henry C. Griffin & Co., Inc.	22 00
86306	6-12-15	Francis & Co.	14 00
86307	6- 9-15	Eimer & Amend	48 50
86308	6-17-15	The Van Horn Iron Works Co.	416 50
86309	6-14-15	M. B. Brown P. & B. Co...	16 00
86310	6-14-15	The N. Y. Multi-Color Copying Co.	7 62
86311	6-12-15	Keuffel & Esser Co.	4 68
86312	4- 5-15	Ely J. Rieser & Co.....	112 00
86313	4-27-15	The Ohman Map Co., Inc...	2 00
86314	5-26-15	The Canton Art Metal Co..	75 25
86315	6-15-15	C. P. Goerz American Optical Co.	5 50
86316	6-19-15	Emma Dougherty	2 00
86317		Captain James Darrin.....	6 00
86318	6- 8-15	The Fred Goat Co., Inc.....	5 00
86319		Art Metal Const. Co.....	14 00
86339	5-31-15	George B. Buck	17 62
86340		George B. Ford	59 21
86341		Robert H. Whitten	53 80
86342	6-21-15	The Barton Mfg. Co.	92
86344	5-25-15	J. F. Hazrick	16 69
86343		J F. Hazrick	12 93
		Department of Education.	
86208	6- 7-15	Wendell M. Thomas	39 50
86209	5- 1-15	Disinfecting & Exterminating Corp.	6 00
86210	2- 9-15	James C. Nichols, Inc.	1 70
86211	5-11-15	Richmond Light & R. R. Co.	500 00
86212	5-12-15	Staten Island Midland Railway Co.	500 00
86213	5-18-15	The Crowell Pub. Co.	105 00
86214	5-28-15	Hugh D. McGrane	65 00
86216	41181	Gerry & Murray	884 00
86217	6-21-15	Hugh D. McGrane	180 00
86218	6-21-15	Hugh D. McGrane	50 00
		Department of Finance.	
86266		John C. Heintz et al	$665 31
86267		George F. Johnson	11,707 04
86268		George F. Johnson	1,370 51
86269		Brooklyn Meadville Co. ...	9,208 51
86270		Congetta Tufano	450 00
86271		Peter Wenk	200 00
86272		John Orsini	400 00
86273		George Jean	250 00
86274		Henrietta Iffinger	175 00
86275		Everett Hubbs	400 00
86276		Willet Realty Co.	2,710 72
86277		Great Kills Improvement Co.	316 92
86278		Great Kills Improvement Co.	200 00
86279		William H. Arnold	210 00
86280		L. Harry Fisher	15 00
86281		Edward M. Bassett	160 00
86182		Jacob Hessel	210 00
		Fire Department.	
86163	41096	Hazard Mfg. Co.	8,588 16
86164	42185	J. & T. Adikes	160 28
86165	41099	Borough Hay & Grain Co..	177 17
86166	42183	J. W. Gasteiger & Son.....	3,750 82
86167	42188	Edward Wisely & Son.....	1,271 34
86168	41011	The Clark & Wilkins Co....	7 68
86169	42209	Jurgen Rathjen Co.	121 86
86170	42202	Philip Dietz Coal Co.....	276 00
86171	42199	Burns Bros.	2,385 37
86172	42201	John E. Donovan	849 67
86173	42038	Stehlin, Miller & Henes Co.	104 20
86174	42031	Frank, Richard & Gardner Co.	702 70
86175	42045	George T. Montgomery.....	15 39
86176	42037	H. T. Dakin	45 86
		H. T. Dakin	44 11
86177	42044	Knickerbocker Supply Co...	49 40
		Knickerbocker Supply Co...	8 35
86178	42026	John W. Masury & Son....	225 00
86179	42036	Western Electric Co.	15 22
86180	42035	Combination Rubber Mfg. Co.	18 02
86181	42031	Frank, Richard & Gardner Co.	8 19
86182	42037	H. T. Dakin	159 31
86183	41828	Marquard, Fay Co., Inc....	1,721 25
		Department of Health.	
86215	39507	P. F. Kenny Co.	9,000 00
		The Mayoralty.	
86247	6- 2-15	Tower Mfg. & Nov. Co....	$2 57
86248	6-23-15	Rand, McNally Co.	9 50
		Bronx Parkway Commission.	
86184		Collector of Assessments & Arrears	$3,140 94
86185		Receiver of Taxes	317 51
86186	5- 1-15	Consolidated Water Co. of Suburban New York	3 00
86187		Peter Graebner	8 31
86188		Westchester Lighting Co...	1 00
86189	5-31-15	Scarsdale Supply Co.	6 75
86190	5-31-15	White Plains Staty. Store..	2 20
86191		New York Times	9 45
86192	6-18-15	The Sun	12 00
86193		New York Evening Journal	15 00
86194	5-27-15	Havers & Fagan	1 60
86195	4-30-15	New York Telephone Co...	113 09
86196	6- 9-15	Library Bureau	34 55
86197	6-19-15	The Tribune Assn.	12 00
86198	4-22-15	Lithoprint Co.	3 68
86199		Broun-Green Co.	27 00
86200		Timothy J. Crowley, Rec. Taxes, Town of Eastchester	47 74
86201		Lawrence Park Realty Co..	256 70
86202	5-27-15	E. G. Soltmann	5 86
86203	6-18-15	Sarasohn & Son.....	4 50
86204		Gae Mangarello	88 48
86205		Collector of Assessments & Arrears	800 05
86206		The Banks Law Pub. Co....	4 00
86207		George R. Hilty	52 85
86420	2-26-15	Kolesch & Co.	2 30
86421	6-15-15	Keuffel & Esser Co.	11 63
86422		National Tracing Cloth Co.	3 94
86423		Chester A. Garfield	19 95
86424		Albert N. Robson	8 65
86425		Samuel Elkin	2 92
86426		Frederick H. Gross	17 66
86427		William J. Byrne	10 39
86428		John N. Golding, Agent....	268 33
86429		John A. Lender	7 13
86430		The Westchester News	7 50
86431	6-18-15	New York Herald	12 00
86432	6-25-15	The North Side News.....	12 00
86433		The Bronx Record and Times	12 00
86434	5-24-15	Evening Bronx	80 00
86435	5- 3-15	The New York Press	19 80
86436		William Stanwood Phillips.	10 00
86437	6-18-15	Anchor Blasting Mat & Rope Co.	52 00
86438	6- 1-15	Edward E. Buhler Co.	7 00
86439		Macgowan & Slipper	4 00
86440		Receiver of Taxes	147 02
86441		Morris A. Lefkoff	11 90
86442	4-28-15	Goldsmith Bros.	19 39
		Police Department.	
86158		Police Pension Fund, Arthur Woods, Commissioner	$22,116 35
86159		Police Pension Fund, Arthur Woods, Commissioner	6 04
86160		Police Pension Fund, Arthur Woods, Commissioner	68 66
86161		Police Pension Fund, Arthur Woods, Commissioner.....	79 24
86162		Police Pension Fund, Arthur Woods, Commissioner	23 60
		Department of Public Charities.	
86093	1- 2-15	Lewis De Groff & Son.....	442 88
86094	2- 3-15	Lewis De Groff & Son.....	69 12
86095	6- 2-15	B. Fischer & Co.	80
86096	6- 1-15	Frank J. Murray Co., Inc...	53 37
86097	5-21-15	M. H. Greenbaum Co., Inc..	449 82
86098	4-29-15	A. Goldstein & Co.....	19 32
86099	6- 2-15	J. M. Horton Ice Cream Co.	74 25
86100	5-31-15	Rebecca Melicow	98 00
86101	5-14-15	John Moonan	219 51
86102	4-16-15	George Harris & Company.	6 00
86103	5-10-15	George D. Harris & Co....	18 00
86104	5-26-15	The Coal & Transfer Co., Inc.	65 50
86105	3- 5-15	The Coal & Transfer Co., Inc.	70 50
86106	5-31-15	Patrick Brady	211 93
86107		The De Felice Studio	14 00
86108	6- 1-15	S. D. Woodruff & Sons.....	35 00
86109	5-25-15	J. T. McKinney	30
86110	5-20-15	Lowe Motor Supplies Co..	1 20
86111	5-20-15	Standard Oil Co. of N. Y.	23 76
86112	5-28-15	Standard Oil Co. of N. Y.	33 99
86113	4-17-15	M. Meyers, Inc.	17 45
86114	3- 3-15	Meyers & Grayson, Inc.....	2 00
86115	3-30-15	Hull, Grippen & Co.....	11 55
86116	3-31-15	Hull, Grippen & Co.....	48 40
86117	5-10-15	Hull, Grippen & Co.....	88
86118	5- 8-15	Bloomingdale Bros.	46 02
86119	5-25-15	Jones Packing Co.	1 50
86120	6- 3-15	Manhattan Hardware & Bicycle Co.	4 55
86121	5- 6-15	Manhattan Hardware & Bicycle Co.	15
86122	5-26-15	Theo. Moss & Co.	11 14
86123	6-19-15	Henry R. Worthington	6 50
86124	5-22-15	A. C. Laurence	85
86125	4-15-15	Bloomingdale Bros.	144 00
86126		Louis S. Gimbel	97 81
86127	5-19-15	Syndicate Trading Co.	50
86128	6-10-15	Robert Ferguson	5 52
86129	3-13-15	A. & W., Sing Sing.....	15 45
86130	3- 7-15	D. B. Pershall & Son.....	35 60
86131	6-12-15	James S. Barron & Co....	21 80
86132	5-29-15	J. J. Snyder & Son.....	1 00
86133	11-30-14	Bramhall, Deane Co.	78 88
86134	6-25-15	Henry B. Newhall	76
86135		The H. B. Claflin Corp. ...	104 58
86136	10-24-14	The Arlington Chemical Co.	49 60
86137		The Central Foundry Co..	466 70
86138	5-29-15	Thomas McKeown, Inc. ...	985 00
86139	5-21-15	Clinton Prison	65 00
86140	5-31-15	Samuel E. Hunter	244 54
86141	5- 3-15	Samuel E. Hunter	38 40
86142	5-20-15	Blackford's Inc.	18 43
86143	5-20-15	Blackford's, Inc.	25
86144	5-12-15	Jacob Boss	1 70
86145	5-12-15	Jacob Boss	86 17
86146		Jacob Boss	130 35
86147	4-30-15	Jacob Boss	85 36
86148	5-28-15	Jacob Boss	3 29
86149	5-24-15	Henry Kelly Sons	19 53
86150	5-15-15	Henry Kelly Sons	88
86151	5-31-15	Henry Kelly Sons	90 34
86152	5-13-15	Henry Ebbighausen	25
86153	5-25-15	Henry Ebbighausen	25
86154	5-27-15	Henry Ebbighausen	49 54
86155	5-18-15	Westchester Fish Co.	54 09
86155	6- 1-15	Westchester Fish Co.....	11 01
86157	6- 7-15	John Belmann	1 80
86283		William Alberti Whiting...	85 11
86284		William Alberti Whiting...	27 72
86285		Dr. Walter H. Conley	28 25
86286		Dr. Walter H. Conley	40 00
		Commissioner of Records, New York County.	
86262		Knickerbocker Towel Supply Co.	$11 40
86263	6-30-15	Great Bear Spring Co.....	3 60
86264	6-30-15	Underwood Typewriter Co.	9 00
86285		John F. Cowan	9 76
		Register, Bronx County.	
86258	6-25-15	J. Schapiro	$2 25
86259		A. B. Dick Co.	33 25
		Department of Street Cleaning.	
86419		J. T. Fetherston, Commissioner, Relief and Pension Fund	$236 34
86418		J. T. Fetherston, Commissioner, Relief and Pension Fund	351 93
		United States Volunteer Life-Saving Corps.	
86251	4-28-15	Est. of Jas. Leach	5 94
86252	5-14-15	F. W. De Voe & C. T. Raynolds	38 95
86253	6-15-15	Patterson Bros.	1 25
86254	6-16-15	De Grauw, Aymar & Co....	6 65
86255		Louis Granat	40 25
86256	6-23-15	John Corning	15 00
86257		Charles E. Raynor	30 50
86288	6-19-15	Armstrong Cork Co.	67 50
86289	6-21-15	Schieffelin & Co.	157 13
86290	6-22-15	Louis Bossert & Sons.....	837 00
		Department of Water Supply, Gas and Electricity.	
86345	41846	James A. Miller	781 13
86346	41787	Ford Motor Co.	2,940 00
		Ford Motor Co.	1,470 00
86347	41787	Ford Motor Co.	1,015 00
		Ford Motor Co.	3,430 00
86348	41386	Edison Electric Ill. Co. of Brooklyn	858 93
86349	41386	Edison Electric Ill. Co. of Brooklyn	9,122 03
86350	41385	Flatbush Gas Co.	537 45
86351	41158	New York and Queens Electric Light and Power Co...	1,338 83
86352	41386	Edison Electric Ill. Co.....	382 86
86353	41386	Edison Electric Ill. Co.....	3,442 24
86354	41158	New York and Queens Electric Light and Power Co....	465 05
86355	42414	J. D. Johnson Co.	2,310 28
		J. D. Johnson Co.	185 80
86356		H. R. Emerson	142 43
86357		N. I. Clarkin	21 90
86358		A. Wiliamson	21 76
86359		Joseph Honey	55 20
86360		H. R. Emerson	20 10
86361		Richard Ankener	22 91

Finance Voucher No.	Invoice or Contract Date Number.	Name of Payee.	Amount.
86362		George H. Williams	34 38
86363		Charles E. Schweitzer	749 99
86364		William P. Hennesey	4 00
86365		L. B. Shoemaker	58 20
86366		William F. Laase	49 70
86377	41606	Lux Mfg. Co	2,468 13
86378	12-15-14	New York Edison Co	25 00
86379	5- 4-15	General Electric Co	8 45
86380	3-20-15	H. A. Rogers Co.	47 16
86381	4-12-15	A. F. Brombacher & Co.	13 96
86382	5- 1-15	Keuffel & Esser Co.	74 17
86383	6- 9-15	Eugene H. Tower, Inc.	8 70
86384	4- 6-15	Firestone Tire & Rubber Co.	121 86
86385	5-26-15	Henry Moss & Co.	3 30
86386	5-13-15	Alfred J. Diefenderfer	550 00
86387	5-24-15	Montgomery & Co.	5 44
86388	6- 9-15	Keuffel & Esser Co.	9 48
86389	6- 2-15	T. P. Kane Co.	48 25
86390	4-12-15	John Simmons Co.	39 37
86391	4-12-15	Manhattan Supply Co.	15 40
86392	3-22-15	General Pattern & Model Co.	16 00
86393	5-13-15	Parkersburg Iron Co.	62 32
86394	6- 8-15	United Brass Mfg. Co.	191 25
86395	6- 1-15	The Babcock & Wilcox Co.	29 80
86396	6- 3-15	Charles Johnson	60 00
86397	6-16-15	Alfred Payne	80 00
86398	6-17-15	Benjamin Electric Mfg. Co.	14 88
86399	6-12-15	E. P. Gleason Mfg. Co.	11 56
86400		Frank Buehler	21 00
86401		Daniel J. Haggerty	27 50
86402	5-31-15	J. Mancini	80 00
86403	6-17-15	E. C. Bridgman	2 25

DEPARTMENT OF FINANCE.

Abstract of Transactions for Week Ended May 22, 1915.

Deposited in the City Treasury.

To the Credit of the City Treasury	$10,722,616 27
To the Credit of the Sinking Funds	200,938 30
Total	$10,923,554 57

Warrants Registered for Payment.

Appropriation Accounts "A" Warrants	$1,738,283 65
Special Revenue Bond Fund Accounts "B" Warrants	121,333 05
Corporate Stock Fund Accounts "C" Warrants	1,614,794 48
Special and Trust Fund Accounts "D" Warrants	189,872 88
Total	$3,664,284 06

Notes Issued.

Notes	$1,500,000 00

Bonds and Bills Redeemed.

Bonds of former Corporations now included in The City of New York	$155,000 00
Revenue Bonds	500,000 00
Revenue Bills	1,247,011 99
Total	$1,902,011 99

Suits, Court Orders, Judgments, Etc., Filed.

May 17—Hope, Allen; J. G. Clark, attorney; transcript of judgment in sum of $25. Palermo, Antonio, surety; certified copy order directing refund of $1,000; Philip Goldstein, principal. Schkolnick, Esther, infant, by Isaac Schkolnick, guardian; N. B. Finkelstein, attorney; summons and complaint in action against City of New York. New York Co-operative Building & Loan Association; Wm. Langdon, attorney; certified copy order directing payment of award for Parcels 77 and 78, matter E. 217th St., etc., Bronx. Pelton, Angelina S.; E. C. Hamburg, attorney; certified copy order directing payment of award for Parcels 97, 98, 99, matter Bay 34th St., etc., Brooklyn. Pelton, Angelina S.; E. C. Hamburg, attorney; certified copy order directing payment of award for Parcels 100 and 101, matter Bay 34th St., etc., Brooklyn. Pelton, Angelina S.; E. C. Hamburg, attorney; certified copy order directing payment of award for Parcels 93, 94, 95 and 96, matter Bay 34th St., etc., Brooklyn. Weissbarth, Elizabeth, et al.; C. A. Moses, attorney; certified copy order directing payment of award for Parcel 12, matter Bronx Boulevard, etc., Bronx.

May 18—Roche, Edward; Davison & Underhill, attorneys; transcript of judgment in sum of $1,255.78. Almirall, Raymond F.; Wm. F. Kimber, attorney; copy transcript of judgment in sum of $850. Goetz, Elizabeth; E. C. Hamburg, attorney; certified copy order directing payment of award for Parcels 22M and 37, matter E. 17th St., etc., Brooklyn. Lutz, Sarah; Chas. J. Foltz, attorney; copy summons and complaint in action against City of New York, et al. Hollaran, Mary C., as administratrix estate Michael J. Hollaran, deceased; Brown & Purdy, attorneys; transcript of judgment in sum $91.22. Hollaran, Mary C., as administratrix estate Michael J. Hollaran, deceased; Brown & Purdy, attorneys; transcript of judgment in sum $9,005.97.

May 19—Levy, Jacob; E. Rosenthal, attorney; affidavits and notice of motion to be made at Special Term, Part I, Supreme Court, New York County, on May 24, 1915, for order directing refund of $1,000 bail, etc. Fox, Henry E.; S. F. Frank, attorney; transcript of judgment in sum $647.06.

May 18—McCabe, Thomas J.; release of mortgage by Mary Golden and affidavit of F. J. Flynn, re award for Parcel 122, matter Castle Hill Ave., etc., Bronx. Buttner, Martha; release of mortgage by Eliz. E. Dooling and affidavit of J. T. Dooling, re award for Parcels 154, 155 and 156, matter White Plains Rd., etc., Bronx.

May 19—Liss & Diamond, Inc.; C. L. Meckenberg, attorney; copy summons and complaint in action against Frank Merendino, Inc., and City of New York. Amendola, Albert, surety; R. L. Levinson, attorney; certified copy order directing refund of $300; Ruggi Cataldo, principal. American Surety Company; certified copy order directing refund of $1,000; Leonard Wieland, principal. Belluscio, Michael; Egan & Gunther, attorneys; certified copy order directing payment of award for Parcels 77 and 78, matter Bronxwood Ave., etc., Bronx. Miller, David & Son, bankrupt; notice of hearing in bankruptcy proceedings on May 28, 1915. Whitby, Theresa; certified copy order directing payment of award for Parcel 88, matter Bronxwood Ave., etc., Bronx. Jansky, John and Mary; certificate of clerk, County of Queens, consent of G. Custecky and ano, and affidavit of Wm. E. Donavin, award for Parcel 6F, matter Remsen Ave., etc., Queens. City Real Estate Co.; release of mortgage by Title Guarantee & Trust Co. and affidavit of H. Anderson, re award for Parcel 100, matter Thatford Ave., etc., Brooklyn. Brase, Anna; release of mortgage by German American Building & Loan Association and affidavit of R. E. Sloan, re award for Parcel 2C, matter Remsen Ave., etc., Queens.

May 20—Brown, Benj. C.; E. V. A. Ketchum, attorney; certified copy judgment in sum of $147, and $48.51 costs.

May 19—Shea, Annie A; affidavit and two certificates of satisfaction of judgments, re award for Parcels 5 and 6, matter Lyvere St., etc., Bronx.

May 21—Rubenstein & Bachrach, bankrupts; notice of meeting in bankruptcy proceeding on June 3, 1915. Colgate, Charles; Joline, Larkin & Rathbone, attorneys; copy summons and complaint action against Young Realty & Construction Co., City of New York et al. Groce, Gaetano and ano.; Chas. Zerbarini, attorney; certified copy order directing payment of award for Parcel 10, matter E. 181st St., etc., Bronx. Zinco, Lucia; Chas. Zerbarini, attorney; certified copy order directing payment of award for Parcel 51, matter Parker Ave., etc., Bronx. Union Trust Co., executors estate Ira Shafer, deceased; Jos. S. Frank, attorney; copy transcript of judgment in sum $612.84. Van Schaick, Henry; Jos. S. Frank, attorney; transcript of judgment in sum of $647.99.

May 20—Conartin, Bernard; release of mortgage by Bedford Co-operative Building & Loan Association and affidavit, re award for Parcel 41A, matter Union St., etc., Brooklyn.

May 22—Hirschman, Stuard; two releases by Edwin Wolf and affidavit, re award for Parcels 169, 170, 172, matter Boulevard, etc., Queens. Schombsm, William C., et al.; Manning & Buechner, attorneys; certified copy order directing payment of award for Parcels 17, 16, 18 and 19, matter Belmont Ave., etc., Brooklyn.

May 14—Barbutto, Francesco, infant, by Salvatore Barbutto, guard; personal injuries caused by fall over obstruction of cobblestones on sidewalk near 95-97 Spencer St., Brooklyn, on April 30, 1915, $500; J. L. Danzilo, attorney. Klein, Mrs. Ernst, damages due to injuries sustained by daughter, Lizzie Klein, caused by fall while attending Public School 87, Queens, Long Island, on November 13, 1914. Maloney, Richard F., burial expenses of P. McLarney, veteran, $50. Tuchband, Rebecca, guardian of Gussie Tuchband, infant; personal injuries sustained by Gussie Tuchband, infant, caused by falling down stairs of Public School on 4th St., between 1st Ave. and Ave. A, Manhattan, April 16, 1915, $2,500; S. A. Langfur, attorney.

May 15—Mouakad Co., Elias, damage to wagon, caused by Department Street Cleaning cart No. 61, on May 10, 1915. Tuchband, Rebecca, damages, due to injuries sustained by daughter, Gussie Tuchband, caused by falling down stairs of Public School on 4th St., between 1st Ave. and Ave. A, Manhattan, on April 16, 1915, $1,500; S. A. Langfur, attorney. Regal Hoof Pad Co., amount due by reason of judgment rendered and execution issued against money retained by City of New York and due Thos. Manning, plaintiff in action, $30.49; G. Gunkel, attorney. Hasbrouck, Frank, Superintendent of Insurance, State of New York; damages due to loss of sale owing to lien upon real estate of Empire State Surety Co. by reason of bond in sum $25,000 issued to Collector of Assessments and Arrears, City of New York, $3,900; F. C. Dunham, attorney. Hasbrouch, Frank, Superintendent of Insurance, State of New York; damages due to loss of sale owing to lien upon real estate of Empire State Surety Co. by reason of bond in sum of $25,000 issued to Receiver of Taxes, City of New York; $3,900; F. C. Dunham, attorney. Klinger, Jacob, personal injuries caused by fall on defective sidewalk, front 80 Ave. D, Manhattan, on April 30, 1915, $500; L. J. Schwartz, attorney.

May 17—Allen, Clarence W., damage to premises 476 Gravesend Ave., Brooklyn, caused by fire apparatus running into same on May 13, 1915. Shea, D. P., burial expenses of Chas. Bausbach, veteran, $50. O'Donnell, John, personal injuries caused by being struck by gate of Staten Island Ferry Boat at Manhattan end of Ferry on May 12, 1915, $500; G. Posner, attorney. Miller, John, refund of amount deposited for supply of water to premises 263-265 Chauncey St., Brooklyn, about October 10, 1914, $54. Torimac Corporation, damage to premises at Southwest corner 31st St. and 6th Ave., caused by water flowing in basement on May 4 and 5, 1915, $500; J. T. Smith, pres. attorney. Sockoloff, Morris, personal injuries caused by being run down by Department Street Cleaning wagon, front 215 Monroe St., Manhattan, on March 23, 1915, $500; J. F. McCall, attorney.

May 18—Dutenhofer, Adam, personal injuries caused by fall over coping around areaway from 118 W. 69th St., Manhattan, on April 2, 1915, $15,000; G. W. Bristol, attorney. Davidson Bros., damage to personal property at 2556 Third Ave., Manhattan, caused by negligence of City of New York, on May 5, 1915, overflow of sewer pipe, $892.64; Rogers & Rogers, attorneys. Caren, Nellie P., damage to private main leading from Surf Ave. to cottage on beach, caused during construction of sewer on Surf Ave. through W. 30th St., Coney Island, $33. Gold, Harry, refund of jury fee paid Third District Municipal Court, action Kempner vs. Gold, $4.50. Creem Co., John J., amount due on account of material furnished, labor performed, etc., in connection with contract for relief sewers in Vernon Ave., etc., Brooklyn, entered into April 14, 1913, $50,000; J. C. Wait, attorney.

May 19—Label, Henry, damage to auto caused by ladder used by employees of Bridge Department on Queensboro Bridge on April 7, 1915, $48; Jas. F. Driscoll, attorney. Harris, Joseph A., reimbursement of part of amount paid for burial expenses of Mrs. Emma L. Moore, widow of veteran, $50. Coca-Cola Bottling Works of New York, damage to electric truck caused by Department of Street Cleaning cart front 339-341 E. 46th St., Manhattan, on March 8, 1915, $7.61. Horwitz & Feinberg, refund of jury fee paid Ninth District Municipal Court, action Lans Curiosity Co. v. I. J. Dittenhoefer, $4.50. Foley, Mary, personal injuries caused by fall on defective sidewalk at S. E. corner 57th St. and Lexington Ave., Manhattan, on November 23, 1914, $5,000; A. W. Dennen, attorney. Friedman, Samuel, amount due for repairs to defective coupling in water main at 71-73 Pike St., Manhattan, $17.46.

May 20—Rosow, Mrs., personal injuries caused by fall on defective sidewalk, front 1384 Prospect Ave., Bronx, on May 13, 1915; A. G. Steiner, attorney. Hoffman, Otto G., damage to clothing of son caused by hot tar thrown from bucket at crossing Atlantic and Railroad Aves., Brooklyn, on May 7, 1915. Dunwoody, Mary E., amount due as salary in position of supervisor of Willard Parker Hospital, period of leave of absence from November 1, 1914, to January 11, 1915. Doherty, Patrick, personal injuries caused by fall due to defective planking over excavation in roadway at 4th Ave. and 53rd St., Brooklyn, on May 1, 1915, $5,000; Cook & Benjamin, attorneys.

May 21—Bescher, Henry, damage to hot water range at 55 Sumner Ave., Brooklyn, used by Board of Health, $45.

Approval of Sureties.

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

May 17, 1915.

President, Borough of Bronx—For regulating, etc., Exterior Street: J. Leopold & Co., Inc., 233 Broadway, City, principal; American Fidelity Co., surety.

President, Bronx—For regulating, etc., Overing Street: Di Menna and Del Balso, 2336 Cambrelling Avenue, City, principal; National Surety Co., surety. For sewer in W. 238th St.: D. J. Donelin, 147 E. 125th St., City, principal; National Surety Co., surety. For sewer, etc., in W. 234th St.: Michael Marrone, 658 E. 221st St., City, principal; National Surety Co., surety. For sewer, etc., in Plimpton Ave.: Tony Lapadula, 334 Court St., Brooklyn, principal; Casualty Co. of America, surety.

Department of Correction—For cement: E. E. Buhler Co., 103 Park Ave., principal; National Surety Co., surety.

Municipal Civil Service Commission—For laying linoleum: John Wanamaker, 784 Broadway, principal; Aetna Accident & Liability Co., surety.

Department of Fire—For wrought iron pipe: Eagle Pipe Supply Co., Inc., 6 Roebling St., principal; Casualty Co. of America, surety.

President, Bronx—For coal: O. J. Stephens, Inc., 220 E. 138th St., principal; American Fidelity Co., surety.

Department of Water Supply, Gas and Electricity—For supplies: J. D. Johnson Co., 43 Boerum Place, principal; Fidelity & Casualty Co., surety.

May 19, 1915.

Department of Street Cleaning—For squeegee machines: Chas. Hvass & Co., 509 E. 18th St., principal; National Surety Co., surety.

Department of Education—For alterations, etc., at P. S. 137, Brooklyn: Wm. H. Waite, 39 Lincoln Place, principal; Casualty Co. of America, surety. For alterations, etc., at P. S. 34, Brooklyn: Finnan & Lee, 155 Rogers Ave., Brooklyn, principal; Casualty Co. of America, surety. For alterations, etc., at P. S. 19, Brooklyn: C. F. Morsch & Son, 1334 Broadway, principal; American Surety Co. of New York, surety.

President, Brooklyn—For grading, etc., Newport St.: Grimm Construction Co., 460 Herald Ave., Richmond Hill, principal; Illinois Surety Co., surety.

President, Brooklyn—For repairs, etc., at Lorimer St. Comfort Station: Wm. D. Moore, 2029 E. 15th St., Brooklyn, principal; Casualty Co. of America, surety.

President, Bronx—For repaving, etc., bridge over tracks of the N. Y. C. & H. R. R. R. at E. 153d St.: Barber Asphalt Paving Co., 233 Broadway, New York, principal; Maryland Casualty Co., U. S. Fidelity & Guaranty Co., sureties. For paving, etc., E. 167th St.: Barber Asphalt Paving Co., 233 Broadway, New York, principal; Maryland Casualty Co., U. S. Fidelity & Guaranty Co., sureties.

President, Manhattan—For repaving, etc., Market St.: The Aztec Asphalt Co., 90 West St., principal; U. S. Fidelity & Guaranty Co., Globe Indemnity Co., sureties.

Department of Parks—For surfacing with asphalt, etc., City Island Road: Asphalt Construction Co., 208 Broadway, City, principal; Maryland Casualty Co., National Surety Co., sureties.

May 20, 1915.

Department of Education—For repairs, etc., at P. S. 117: C. L. Dooley, 257 Adelphi St., Brooklyn, principal; Casualty Co. of America, surety. For repairs, etc., at Public Schools 53 and 123: M. Barash, 12 Bergen St., Brooklyn, principal; Casualty Co. of America, surety. For repairs, etc., at Public Schools 43, 57, 74, 86 and 129: J. J. Newman, Woodhaven, L. I., principal; Casualty Co. of America, surety. For repairs, etc., to Public Schools 36, 52 and 68: Morris Cohen, 637 Saratoga Ave.,

Brooklyn, principal; Casualty Co. of America, surety. For sanitary alterations at P. S. 55: Jacob M. Gewertz, 73 Hart St., Brooklyn, principal; Casualty Co. of America, surety. For repairs, etc., to P. S. 88: Nathan Frey, 883 Woodward Ave., Brooklyn, principal; National Surety Co., surety. For sanitary alterations at P. S. 75: Harry Klein, 1851 2nd Ave., City, principal; Southern Surety Co., surety. For repairs, etc., at Public Schools 55 and 146: J. M. Gewertz, 23 Hart St., Brooklyn, principal; Casualty Co. of America, surety. For alterations at P. S. 35: Otto Metz, 119 Palmetto St., Brooklyn, principal; Casualty Co. of America, surety. For sanitary alterations at P. S. 33: Thos. E. O'Brien, Inc., 6311 5th Ave., Brooklyn, principal; Casualty Co. of America, surety. For alterations, etc., to P. S. 84: J. W. Sands, 472 58th St., Brooklyn, principal; American Surety Co. of N. Y., surety. For repairs to P. S. 162: Willett & Co., 608 3rd Ave., City, principal; National Surety Co., surety. For repairs to P. S. 26: Wm. Kreisberg, 301 W. 59th St., principal; National Surety Co., surety. For repairs to Public Schools 24, 25 and 29: J. Kessler, 54 W. 118th St., principal; Aetna Accident & Liability Co., surety. For repairs to P S. 147: H. Glasser, 30 E. 12th St., principal; Casualty Co. of America, surety. For equipment of Bushwick High School: G. T. Montgomery, 105 Fulton St., principal; Globe Indemnity Co., surety. For alterations to Public Schools 29 and 34, Queens: Doncourt Construction Co., Flushing, L. I., principal; Casualty Co. of America, surety. For alterations to Public Schools 27 and 31, Queens: Aug. Wille, Jr., 224 E. 57th St., principal; Casualty Co. of America, surety. For alterations to Jamaica Training School: G. Marshall, Jamaica, L. I., principal; Globe Indemnity Co., surety. For furniture for P. S. 20, Richmond: A. H. Andrews Co., 1472 Broadway, principal; American Surety Co. of N. Y., surety. For furniture for P. S. 20, Richmond: J. B. Greenhut Co., 6th Ave. and 19th St., principal; U. S. Guarantee Co., surety. For furniture for P. S. 20, Richmond: Narragansett Machine Co., Providence, R. I., principal; Aetna Accident & Liability Co., surety. For alterations, etc., to Public Schools 20, 79, etc.: Frank Kieebitz, Flushing, L. I., principal; Casualty Co. of America, surety. For alterations at Jamaica High School: C. F. Morsch & Son, Woodhaven, L. I., principal; American Surety Co. of N. Y., surety. For alterations to P. S. 49, Queens: Haupt Paint & Hardware Co., 13 Flushing Ave., L. I. C., principal; Casualty Co. of America, surety. For alterations at Erasmus Hall High School: C. L. Dooley, Inc., 257 Adelphi St., Brooklyn, principal; Casualty Co. of America, surety. For alterations to P. S. 159, Brooklyn: Morris Cohen, 637 Saratoga Ave., principal; Casualty Co. of America, surety. For alterations to P. S. 91, Brooklyn: H. Sacks Roofing & Contracting Co., Inc., 1482 2nd Ave., principal; National Surety Co., surety. For alterations to P. S. 109, Brooklyn: Weinstein Bros., 970 Myrtle Ave., principal; Casualty Co. of America, surety. For alterations to Public Schools 72, 89 and Truant School, Brooklyn: Samuel Levin, 514 Grand St., principal; Casualty Co. of America, surety. For alterations to P. S. 92, Brooklyn: Willet & Co., 608 Third Ave., principal; National Surety Co., surety. For alterations to P. S. 38, Manhattan: Wm. Kreisberg, 301 W. 57th St., principal; National Surety Co., surety. For alterations to Public Schools 3, 29, 44, etc.: Rabinowitz Painting Co., 354 W. 43rd St., principal. New Amsterdam Casualty Co., surety. For alterations at P. S. 95, Manhattan: W. C. Redlich, 4 Sylvan Court, Bronx, principal; Casualty Co. of America, surety. For electrical equipment at P. S. 12, Bronx: T. F. Jackson, Inc., 99 John St., principal; Casualty Co. of America, surety. For temperature regulation at P. S. 18, Brooklyn: Johnson Service Co., 123 E. 27th St., principal; Casualty Co. of America, surety. For furniture for P. S. 169, Brooklyn: L. Mersheim, 105 Bowery, principal; Royal Indemnity Co., surety. For furniture for P. S. 169, Brooklyn: Schoverling, Daly & Gales, 302 Broadway, principal; Fidelity & Deposit Co. of Maryland, surety. For furniture for P. S. 169, Brooklyn: Bloomingdale Bros., 59th St. and 3rd Ave., principal; U. S. Casualty Co., surety. For furniture for P. S. 20, Richmond: Bloomingdale Bros., 59th St. and 3rd Ave., principal; U. S. Guarantee Co., surety. For furniture for P. S. 20, Richmond: Leigh Lundy, 149 Broadway, principal; Aetna Accident & Liability Co., surety. For alterations to P. S. 39, Queens: Haupt Paint & Hardware Co., Inc., L. I. City, principal; Casualty Co. of America, surety.

May 21, 1915.

Department of Education—For alterations to P. S. 18, Queens: Doncourt Construction Co., Flushing, L. I., principal; Casualty Co. of America, surety. For alterations to Public Schools 1, 8, 16 and 41, Manhattan: Max Levine, 177 Lee Ave., principal; Casualty Co. of America, surety. For alterations to P. S. 130, Manhattan: Wm. Hahn, 154 E. 63rd St., principal; Casualty Co. of America, surety.

Department of Docks and Ferries—For supplies: John A. Casey Co., 144 Maiden Lane, principal; Certified Check, surety; N. G. Graves & Co., 161 Water St., principal; Fidelity & Casualty Co., surety. J. K. Larkin, 34 Reade St., principal; American Surety Co. of New York, surety. Baker, Cowen & Morrell, 39 Water St., principal; Casualty Co. of America, surety. Oil Marketing Co., 17 Battery Place, principal; Casualty o. of America, surety. W. L. Woodside, 220 Broadway, principal; Fidelity & Casualty Co., surety. Knickerbocker Supply Co., 189 Franklin St., principal; Casualty Co. of America, surety.

Department of Water Supply, Gas and Electricity—For castings, etc.: Jno. Fox & Co., 253 Broadway, principal; U. S. Fidelity & Guaranty Co., surety. For castings: Maher & Flockhart, Newark, N. J., principal; U. S. Fidelity & Guaranty Co., surety. For cast iron pipe, etc.: T. J. Radley, 143 Liberty St., principal; National Surety Co., surety.

Public Charities—For beds: Bloomingdale Bros., Lexington Ave. and 59th St., principal; U. S. Guarantee Co., surety.

Department of Water Supply, Gas and Electricity—For the construction of concrete floor at Grant City, S. I.: Hamme & Donnelly, 38 Park Row, principal; Casualty Co. of America, surety. For laying water mains in Barretto St., etc.: L. Coppeto, 2357 Hoffman St., principal; National Surety Co., surety. For laying water mains in the Grand Boulevard: Melrose Construction Co., 147 E. 125th St., principal; National Surety Co., surety.

President, Queens—For regulating, etc., South Washington Place: Hastings Pavement Co., 25 Broad St., City, principal; American Surety Co. of New York, National Surety Co., sureties.

President, Queens—For regulating, etc., North Henry St.: Hastings Pavement Co., 25 Broad St., New York, principal; National Surety Co., American Surety Co. of New York, sureties.

Department of Education—For sanitary alterations at P. S. 54: M. J. Crowley, 5602 Broadway, City, principal; National Surety Co., surety.

Department of President. Manhattan—For repaving Houston St.: W. J. Fitzgerald, 547 W. 45th St., New York, principal; National Surety Co., surety.

May 2, 1915.

Department of Education—For heating, etc., apparatus at P. S. 18, Brooklyn: Jas. Curran Mfg. Co., 512 W. 36th St., principal; New England Casualty Co. surety.

Opening of Proposals.

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

May 17—Bellevue and Allied Hospitals: For completion of abandoned contract of the Tower Construction Co. for alteration to power house and ambulance hospital. Department of Education: For alterations to various schools in Manhattan and Brooklyn; for sanitary alterations to various schools in Manhattan, for furniture, etc., for new Public School 52, Manhattan.

May 18—Department of Education: For furnishing and delivering supplies for vocational playgrounds. Public Charities: For the installation of certain screen work on various buildings of the Sea View Hospital. Department of Correction: For furnishing and delivering material for the east wing, etc., at Disciplinary building, Riker's Island. Fire Department: For furnishing and delivering forage for Engine Co. 151, etc., Tottenville, S. I. Public Service Commission: For the construction of Route 49, Section 2 of the Culver Rapid Transit Railroad.

May 19—Public Charities: For furnishing and delivering ice; installation of fly screens on windows, doors, etc., on certain buildings under the jurisdiction of Department of Public Charities. Department of Correction: For furnishing and delivering bamboo and for furnishing and delivering three light draft horses. President, Brooklyn: For repairs to mechanical equipment of pumping plant at Gowanus flushing tunnel; for regulating, grading, etc., various streets, etc.

May 20—Public Charities: For underpinning the foundation of the female dormitory, Metropolitan Hospital, Blackwell's Island. Department of Correction: For furnishing and delivering 600 barrels of flour. Water Supply, Gas and Electricity: For the laying of water mains in E. 63d, E. 79th and E. 82nd Sts., and in 3rd Ave. Bridge Department: For furnishing and setting window ventilators. Armory Board, Bellevue and Allied Hospitals, Department of Bridges, Department of Correction, Fire Department, Health Department, Police Department, Park Department, Public Charities, Street Cleaning Department, Water Supply, Gas and Electricity: For furnishing and delivering coal, gasolene, cord wood, etc.

May 21—Health Department: For the removal of night soil, etc., from the several Boroughs of the City for a period of five years, beginning July 1, 1915, and for alterations, etc., to the measles pavilion at Willard Parker Hospital.

EDMUND D. FISHER, Deputy and Acting Comptroller.

LAW DEPARTMENT.

The following schedules form a brief extract of the transactions of the office of the Corporation Counsel for the week ending May 29, 1915, as required by section 1546 of the Greater New York Charter.

Note—(The City of New York or the Mayor, Aldermen and Commonalty of the City of New York is defendant, unless otherwise mentioned.)

SCHEDULE "A."

Suits and Special Proceedings Instituted.

Court.	Register and Folio.	When Commenced.	Title.	Nature of Action.
Supreme...	106 461	May 24, 1915	de Peyster, Ashton (Matter of)	For order dispensing with lost mortgage.
Land Office.	106 462	May 24, 1915	Ward, Patrick (Matter of)	For grant of land under waters of East River.
Sup., K. Co.	106 463	May 25, 1915	City of New York vs. Paddock Cork Co..	To recover judgment for personal tax for 1904, $395.52.
Supreme...	106 464	May 25, 1915	Brown, Arthur, vs. New York Edison Co.	Motion for subpoena duces tecum.
Municipal..	106 465	May 25, 1915	Berman, Samuel, vs. Theodore A. Sunderman, etc.	To recover property valued at $242.95.
Sup., Bx.Co.	106 465	May 25, 1915	Colgate, Charles, vs. Young Realty & Construction Co. et al..	To foreclose mortgage.
Supreme...	106 466	May 25, 1915	Title Guarantee & Trust Co., trustee, ets., vs. David Rieser et al.....	To foreclose mortgage.
Co., K. Co..	106 467	May 25, 1915	People's Trust Co., trustee, etc., vs. Harry Davidson et al.	To foreclose mortgage.
Co., K. Co..	106 467	May 25, 1915	Farmers' & Mechanics' Savings Bank of City of N. Y. vs. Francesca Prisco Catapano et al.	To foreclose mortgage.
Co., R. Co...	106 468	May 25, 1915	Tompkinsville Co-operative Savings & Loan Association vs. Stephen Echardt et al.	To foreclose mortgage.
Supreme...	106 468	May 25, 1915	Smyth, Margaret A., vs. Regina D. Pye et al.	To foreclose mortgage.
Supreme...	106 469	May 25, 1915	Wilson, Fred B., vs. City of N. Y. et al..	Damage to property, construction of subway, 979 Lexington Ave, $10,000.
Municipal..	106 470	May 25, 1915	Borden's Condensed Milk Co.	For damage to auto-truck, condition of roadway, Broadway, Brooklyn, $233.92.
Municipal..	106 471	May 25, 1915	City of New York vs. Briggs & McLaughlin Contracting Co.	For damage to pavement, moving of steam shovel, Villa Ave., Bronx, $50.40.
U. S. Dist..	Bkt.396	May 26, 1915	Metcalf Co., The (Matter of)	Bankruptcy proceedings.
Municipal..	106 472	May 26, 1915	Marzzurca, Maria	Personal injuries, fall, condition of sidewalk, 176 Bedford Ave., Brooklyn, $500.
Muni., B'k'n	106 473	May 26, 1915	Marzzurca, Joseph ...	For loss of services of wife, injured, fall, 176 Bedford Ave., Brooklyn, $500.
Mun., B'x..	106 474	May 26, 1915	Lundin, Meyer D.....	Summons only served.
Sup., Bx.Co.	106 475	May 26, 1915	National Surety Co. vs. Carolina Wenninger et al. (No. 1).....	To foreclose mortgage.
Sup., Bx.Co.	106 476	May 26, 1915	National Surety Co. vs. Carolina Wenninger et al. (No. 2).....	To foreclose mortgage.
Sup., Bx.Co.	106 476	May 26, 1915	National Surety Co. vs. Carolina Wenninger et al. (No. 3).....	To foreclose mortgage.
Co., K. Co..	106 477	May 26, 1915	Newington, Margaret B., vs. George R. Brown et al.	To foreclose mortgage.
Sup., Bx.Co.	106 477	May 26, 1915	Dollar Savings Bank of City of N. Y. vs. Josephine DeLucca et al.	To foreclose mortgage.
Supreme...	106 478	May 26, 1915	Casey, Thomas A.....	Personal injuries, fall, from scaffold, yard of Dock Department, foot of W. 57th St., $5,000.
Sup., Bx.Co.	106 479	May 26, 1915	Wallach Co., Rudolph, vs. Robert J. Rooney et al.	To foreclose tax lien.
U. S. Dist.	Bkt.396	May 27, 1915	Ihrig, Carl, and ano. (Matter of)	Bankruptcy proceedings.
Surrogates..	106 480	May 27, 1915	Dreisch, Stefan, et al. (Matter of)	For order directing Comptroller to pay over moneys due estate of E. L. Dickas.
Supreme...	106 481	May 27, 1915	Soriano, Joseph (Matter of)	For a writ of habeas corpus directed to James Kane, Warden of City Prison, Brooklyn.
Supreme...	106 482	May 27, 1915	Rosenquest, Eugene H., et al., ext'rs (ex rel.), vs. Thomas F. Donnelly, etc.	Mandamus to compel signing of judgment of foreclosure and sale in action of Rosenquest vs. Guiliani et al.
Supreme...	106 483	May 27, 1915	Kouwenhoven Estates, Inc., vs. Louisa Garofalo et al.	To foreclose mortgage.
Municipal..	106 484	May 27, 1915	Kaplan, Alter	Personal injuries, while driving vehicle, collison with Sewer Department wagon, 2nd Ave. and 107th St., $500.
Sup., K. Co.	P 20	May 27, 1915	Leary, Daniel J. ex rel.), vs. Lawson Purdy et al.....	Certiorari to review assessment of relator's real estate for 1915.
Sup., K. Co.	P 21	May 27, 1915	Leary, Daniel J. et al., infants, etc. (ex rel.), vs. Same	Certiorari to review assessment of relator's real estate for 1915.
Supreme...	P 22	May 27, 1915	Carnegie, Andrew (ex rel.), vs. Same.....	Certiorari to review assessment of relator's real estate for 1915.
Supreme...	P 23	May 27, 1915	Burden, I. Townsend, Estate of (ex rel.), vs. Same	Certiorari to review assessment of relator's real estate for 1915.
Supreme...	P 24	May 27, 1915	Takamine, Caroline (ex rel.), vs. Lawson Purdy et al.....	Certiorari to review assessment of relator's real estate for 1915.
Supreme...	P 25	May 27, 1915	Ingersoll, Eva A. (ex rel.), vs. Same.....	Certiorari to review assessment of relator's real estate for 1915.
U. S. Dist..	Bkt.297	May 28, 1915	Stickley, Gustav, and ano. (Matter of)....	Bankruptcy proceeding.
Sup., K. Co.	106 485	May 28, 1915	Farmers' Loan & Trust Co., The, trustees, etc., vs. William J. Conway et al.....	To foreclose mortgage.
Sup., Q. Co.	106 486	May 88, 1915	Fiducia, Antonio	Personal injuries, fall, condition of sidewalk, Oakley and Jerome Aves., Queens, $5,000.
Sup., K. Co.	106 487	May 28, 1915	Goldsmith, Simon	Personal injuries, fall, stairway, Brooklyn approach, Williamsburg Bridge, condition of steps, $5,000.
Sup., Q. Co.	106 488	May 28, 1915	Seid, Samuel, vs. Edward Karsch et al...	To foreclose tax lien.
Sup., Q. Co.	106 488	May 28, 1915	Seid, Samuel, vs. Francis P. Coughlin et al.	To foreclose tax lien.
Sup., Q. Co.	106 489	May 28, 1915	Seid, Samuel, vs. Claude B. Barnes et al.	To foreclose tax lien.
Sup., Q. Co.	106 489	May 28, 1915	Seid, Samuel, vs. William H. Moffitt Realty Co. et al....	To foreclose tax lien.
Sup., Q. Co.	106 489	May 28, 1915	Seid, Samuel, vs. William H. Moffitt Realty Co. et al....	To foreclose tax lien.
Sup., Q. Co.	106 490	May 28, 1915	Seid, Samuel, vs. Dora Dohmmann et al....	To foreclose tax lien.
Sup., Q. Co.	106 490	May 28, 1915	Seid, Samuel, vs. William H. Moffitt Realty Co. et al....	To foreclose tax lien.

Court.	Register and Folio.	When Commenced.	Title.	Nature of Action.
Sup., Q. Co.	106 490	May 28, 1915	Seid, Samuel, vs. Jerry Dubato et al.....	To foreclose tax lien.
Sup., Q. Co.	106 491	May 28, 1915	Seid, Samuel, vs. Jesse H. Terry et al.....	To foreclose tax lien.
Sup., Q. Co.	106 491	May 28, 1915	Seid, Samuel, vs. George E. Worman et al.	To foreclose tax lien.
Sup., Q. Co.	106 491	May 28, 1915	Seid, Samuel, vs. William H. Moffitt Realty Co. et al....	To foreclose tax lien.
Sup., Q. Co.	106 492	May 28, 1915	Seid, Samuel, vs. John August Johnson et al.	To foreclose tax lien.
Sup., Q. Co.	106 492	May 28, 1915	Seid, Samuel, vs. Charles F. Yoerger et al.	To foreclose tax lien.
Sup., Q. Co.	106 492	May 28, 1915	Seid, Samuel, vs. William Frank et al.....	To foreclose tax lien.
Sup., Q. Co.	106 493	May 28, 1915	Seid, Samuel, vs. John Joseph Hickey et al..	To foreclose tax lien.
Sup., Q. Co.	106 493	May 28, 1915	Seid, Samuel, vs. John Murphy et al.....	To foreclose tax lien.
Sup., Q. Co.	106 493	May 28, 1915	Seid, Samuel, vs. Otto Model et al.....	To foreclose tax lien.
Sup., Q. Co.	106 494	May 28, 1915	Seid, Samuel, vs. Lorenz Zeller et al.....	To foreclose tax lien.
Sup., Q. Co.	106 494	May 28, 1915	Seid, Samuel, vs. Mary A. Molloy et al.....	To foreclose tax lien.
Sup., Q. Co.	106 494	May 28, 1915	Seid, Samuel, vs. Madeline Hogler et al....	To foreclose tax lien.
Sup., Q. Co.	106 495	May 28, 1915	Seid, Samuel, vs. Philip Manual Thome, Jr., et al.	To foreclose tax lien.
Sup., Q. Co.	106 495	May 28, 1915	Seid, Samuel, vs. Annie Houloser et al.....	To foreclose tax lien.
Sup., Q. Co.	106 495	May 28, 1915	Seid, Samuel, vs. William H. Moffitt Realty Co. et al.....	To foreclose tax lien.
Sup., Q. Co.	106 496	May 28, 1915	Seid, Samuel, vs. Minnie Vogh et al.....	To foreclose tax lien.
Sup., Q. Co.	106 496	May 28, 1915	Seid, Samuel, vs. Mary C. Briggs et al.....	To foreclose tax lien.
Sup., Q. Co.	106 496	May 28, 1915	Seid, Samuel, vs. Patrick Bannon et al...	To foreclose tax lien.
Sup., Q. Co.	106 497	May 29, 1915	Crabbe, Charles, vs. Ralph G. Packard et al.	To confirm title to lands, 5th Ward, Borough of Queens.
Municipal..	106 498	May 29, 1915	O'Neill, Vivian T.....	Personal injuries, struck by City employee, front of 18 Greenwich St., $500.
Supreme...	106 499	May 29, 1915	City Real Estate Co. vs. Isaac Marks et al...	To foreclose mortgage.
Supreme...	106 500	May 29, 1915	Kelly & Son, Benjamin F., vs. City of New York and ano.....	To foreclose lien.
Supreme...	106 501	May 29, 1915	Flynn, Mae C.....	Personal injuries, fall, condition of sidewalk, 248 E. 90th St., $5,000.

SCHEDULE "B."

Judgments, Orders and Decrees Entered.

Joseph S. Linnehan vs. G. H. Bell—Entered order denying motion for injunction pendente lite.

Thomas J. Kavanagh, Trustee—Entered order setting aside verdict in favor of defendant, and directing a verdict in favor of plaintiff for six cents, and denying plaintiff's motion for a new trial. Entered judgment in favor of plaintiff for six cents and for $657.17 costs in favor of defendant.

Peo. ex rel. N. Y. Lodge No. 1, B. P. O. E. vs. L. Purdy et al.—Findings of fact and conclusions of law of Platzek, J, filed. Order entered vacating assessment on real property for 1914.

Magnus Larsen—Entered order discontinuing action without costs.

William Brand, Infant—Entered order changing place of trial from Kings to Queens County.

Lucy Spinelli—Entered order changing venue from Queens to New York County.

Henry Koch (4 actions)—Entered orders discontinuing actions without costs.

Joseph Gallo, No. 1—Entered order granting defendant's motion to dismiss action for lack of prosecution with costs.

Josephine Sabino—Entered judgment dismissing complaint by default and for $107.85 costs in favor of defendant.

Peo. ex rel. William J. Cullen vs. A. Woods—Entered order denying motion for peremptory or alternative writ of mandamus with $10 costs to defendant.

Isaac Almstedt—Entered order precluding plaintiff from giving evidence on the trial as to certain items contained in order for bill of particulars.

T. A. Clarke Co. vs. Bd. of Education—Entered order on remittitur from Court of Appeals affirming judgment dismissing complaint with costs to defendant.

James F. Langton—Entered order denying plaintiff's motion for new trial.

Yetta Levine; Daniel Felker—Entered orders discontinuing actions without costs.

Peo. ex rel. Standard Computing Scale Co. vs. J. Hartigan—Entered order denying motion for peremptory writ of mandamus.

Peo. ex rel. Blanche M. Wright vs. Bd. of Education; Peo. ex rel. Anna V. Dolen vs. Same—Orders entered granting motions for peremptory writs of mandamus.

City of New York vs. Brooklyn Heights Railroad Co.—Entered order discontinuing action without costs.

Harold Tyrrell, Infant, vs. Bd. of Education—Entered order granting motion for verified bill of particulars.

J. Hampden Dougherty—Entered Appellate Division order affirming judgment in favor of plaintiff.

Willard P. Lusk—Entered order changing place of trial from Putnam County to New York County.

City of New York vs. Coney Island & Brooklyn Railroad Co.; Same vs. Nassau Electric Railroad Co.—Entered orders discontinuing actions without costs.

New York Electric Lines Co. vs. W. J. Gaynor et al.—Entered judgment on Appellate Division order of affirmance for $831.60 costs in favor of defendant.

Peo. ex rel. David Bernstein vs. E. B. LaFetra—Entered order denying motion for further return to writ of certiorari.

Peter O'Malley; Theodore Taylor—Entered orders discontinuing actions without costs.

In re Thomasine E. O'Brien—Entered order denying motion to discharge lost mortgage.

Ethel Schneider—Entered judgment in favor of defendant upon the merits, and for $119.85 costs.

Frank Sarkay, Infant—Entered order denying motion to dismiss action on condition that same be noticed for trial at June, 1915, Term.

Hudson River Bluestone Co. vs. City of N. Y.; Robert J. Mahoney vs. Same; Fairbanks Co. vs. Same; Art Metal Construction Co. vs. Same; Jewett Refrigerator Co. vs. Same; Otis Elevator Co. vs. Same; Adolphus Proskauer vs. Same; William G. Brinkmann vs. T. A. Bingham; Minnie Grammas vs. Same; Henry Johnson et al. vs. Same; Adams Hoffman vs. Same; John J. Gough vs. G. B. McClellan et al. J. W. Pratt Co.; Thomas Dwyer; Minnie Lowe; R. Guastavino Co.—Entered orders discontinuing action without costs.

Peo. ex rel. N. Y. Railways Co. vs. W. Williams—Order entered granting motion for alternative writ of mandamus.

Mayor, etc., vs. Maturin Livingston et al.—Entered order continuing action in name of City of N. Y. against Ruth Livingston, defendant.

Rapid Transit (William and Beekman Sts.)—Entered order appointing Samuel Strasbourger, Enos S. Booth and James D. Williams as Commissioners of Appraisal.

Joseph P. Murray vs. S. E. Price et al.—Entered order discontinuing action without costs.

Michael J. Dady—Entered order on remittitur from Court of Appeals affirming judgment in favor of defendant, with costs.

John Hadert—Entered order discontinuing action without costs.

People ex rel. Frank A. McGuire vs. W. A. Prendergast—Order entered granting motion for peremptory writ of mandamus.

James H. Holmes—Entered order on remittitur from Court of Appeals affirming judgment dismissing complaint.

People ex rel. Girdell V. Brower vs. W. Williams—Entered order denying motion for alternative writ of mandamus.

Judgments Were Entered in Favor of the Plaintiffs in the Following Actions.

Date.	Name.	Register and Folio.		Amount.
1915.				
May 19	Union Trust Co., executor.....	14	177	$612 84
May 19	Van Schaick, Henry	22	361	647 99
May 20	Radtke, Gustav	98	89	1,123 20
May 21	Williams, Charlotte A.	106	250	60 36
May 22	O'Brien Bros., Inc.	98	178	800 00
May 24	Greenhaus, Jacob N.	105	279	47 05
May 25	Rogeyefsky, Abraham, vs. T. A. Sunderman.....	106	208	25 00
May 25	Sigretto & Co., Joseph L.....	98	474	1,500 00

SCHEDULE "C."

Record of Court Work.

People ex rel. Albert Stieglitz vs. L. Purdy et al.; People ex rel. Lydia Austin vs. Same; People ex rel. Adelaide M. Read vs. Same; People ex rel. Olive M. Faris vs. Same; People ex rel. Rollin H. MacDonald vs. Same; People ex rel. Albert W. Scholle vs. Same—Motion to punish defendants for contempt of Court, argued before Greenbaum, J.; decision reserved; E. Fay for the City. "Motion denied."

People ex rel. Bronx Gas & Electric Co. vs. A. P. W. Seaman et al.—Motion to resettle order denying motion, submitted to Hedrick, J.; decision reserved; C. J. Nehrbas for the City.

People ex rel. Edward M. Franklin vs. J. T. Fetherston—Motion for alternative writ of mandamus, argued before Benedict, J.; decision reserved; E. S. Benedict for the City. "Motion granted."

John F. Ward vs. R. Waldo, et al.; Charles J. Carroll vs Same—Complaints dismissed by defaults before Kapper, J.; T. G. Price for the City.

People ex rel. Blanche M. Wright vs. Board of Education; People ex rel. Anna V. Dolen vs. Same—Motions to resettle orders for peremptory writs of mandamus submitted to Benedict, J., and granted; C. McIntyre for the City.

Margaret O'Donnell—Tried before Davies, J., in Municipal Court; decision reserved; W. H. Doherty for the City.

Bridget Lynch, administratrix, vs. Board of Education—Tried before Dugro, J., and a jury; jury disagreed; motion to dismiss complaint granted; G. M. Curtis for the City.

Antonio Uliano vs. T. A. Sunderman—Tried before Lynn, J., in Municipal Court; decision reserved; W. T. Collins for the City.

In re Stella O. Miner—Motion to vacate commitment of Esther Furman to Newark Home for Feeble Minded Females, argued before Greenbaum, J.; decision reserved; G. H. Cowie for the City. "Motion denied."

John J. Cusick—Complaint disimssed by default before Page, J.; J. F. Collins for the City.

Edward G. Murray Lighterage Co.—Complaint dismised by default before Goff, J.; P. N. Harrison for the City.

City of New York vs. George W. Linch, receiver—Tried before Lynn, J., and a jury in Municipal Court; verdict for plaintiff; W. B. Caughlan for the City.

Eva Vogel—Tried before Fallon, J., in Municipal Court; decision reserved; P. N. Harrison for the City.

Trussed Concrete Steel Co.—Reference proceeded and adjourned; J. Widdecombe for the City.

People ex rel. John J. Howley vs. J. A. Henderson—Argued at Court of Appeals; decision reserved; T. Farley for the City.

People ex rel. New York Central and Hudson River Railroad Co. vs. L. Purdy et al (1912 and 1913)—Argued at Court of Appeals; decision reserved; C. A. Peters for the City.

People ex rel. William J. McKeon vs. A. Ludwig—Argued at Court of Appeals; decision reserved; E. C. Kindleberger for the City.

Hugo Oppenheimer et al.—Motion to vacate judgment in favor of City of New York for costs, argued before Philbin, J.; decision reserved; T. G. Price for the City. "Motion denied."

Mary Martin—Tried before Cohalan, J., and a jury; verdict for defendant; T. G. Price for the City.

Evan T. MacDonald and another; tried before Hendrick, J., and a jury; complaint dismissed on the merits; R. P. Chittenden for the City.

Philip Fleischer—Tried before Cohalan, J., and a jury; verdict for plaintiff for $500; W. Chilvers for the City.

People ex rel. Commercial National Bank vs. W. A. Prendergast—Motion for peremptory writ of mandamus, argued before Scudder, J.; decision reserved; J. L. Pascal for the City.

Henry A. Cassar and another vs. T. A. Sunderman—Tried before Lynn, J., in Municipal Court; judgment for plaintiff; W. T. Collins for the City.

Rapid Transit (Westchester ave., re Charles A. Berrian)—Reference proceeded and adjourned; E. J. Kenney, Jr., for the City.

Henry Barnard—Motion to substitute executors as plaintiff submitted to Greenbaum, J.; decision reserved; motion to dismiss action for lack of prosecution submitted; decision reserved; C. W. Miller for the City. "Motion to substitute denied; motion to dismiss granted."

People ex rel. New York City Mission Society vs. W. Williams—Motion for peremptory writ of mandamus, argued before Greenbaum, J.; decision reserved; D. Robson for the City.

Sarah McMahon—Tried before Dugro, J., and a jury; verdict for defendant; T. G. Price for the City.

Sarah M. Dorland—Tried before Philbin, J., and a jury; verdict for plaintiff for $1,000; T. A. Hardy for the City.

Peo. ex rel. Bernard M. Wagner vs. W. Williams—Motion for peremptory writ of mandamus, argued before Benedict, J. Decision reserved; E. S. Benedict for the City.

John Heitman vs. City of N. Y., et al.—Tried before Tierney, J., in Municipal Court; complaint dismissed; J. P. O'Connor for the City.

Philip Saltz and ano.—Tried before Garretson, J., and a jury; verdict for defendant; J. T. O'Neill for the City.

Pennsylvania Avenue School Site—Motion to confirm report of Commissioners of Appraisal, argued before Benedict, J., and granted; J. B. Shanahan for the City.

Hearings Before Commissioners of Estimate in Condemnation Proceedings.

Piers 8, 9, 10 and 11, N. R. Dock; Piers 27 and 28, E. R. Dock; Pier 49, E. R. Dock; Court House Addition; Rapid Transit (Park Ave., 41st to 42nd Sts.); 1 hearing each; C. D. Olendorf for the City.

Otsego St. Terminal, 1 hearing; J. J. Squier for the City.

Rapid Transi (Bronx River and Devoe St.); Lexington Av. School Site; 2 hearings each; Rapid Transit (Walton Av. and 146th St.); Rapid Transit (Nostrand Av. and Eastern Parkway); Rapid Transit (179th St. and Boston Rd.); Rapid Transit (Mott Av. and Exterior St.); Rapid Transit (135th St. and Harlem River); City Aqueduct, section 1 (Arietta St.); 1 hearing each; H. W. Mayo for the City;

Rapid Transit (Foot of Montague St.); Rapid Transit (Flatbush and Atlantic Aves); Rapid Transit (New Utrecht Av., 84th to 86th Sts.); Rapid Transit (38th St. and 8th Av.); 1 hearing each; L. C. White for the City.

West 1st Stret School site, 1 hearing; J. B. Shanahan for the City.

Rapid Transit (Joralemon St.), 1 hearing; E. J. Kenney, Jr., for the City.

SCHEDULE "D."

Contracts, Etc., Drafted, Examined and Approved as to Form.

Department.	Contracts Approved as to Form.	Contracts Examined and Returned for Revision.	Advertisements Approved as to Form.
Board of Education	40	..	2
Borough Presidents	10	..	2
Dock Department	8	..	1
Department of Water Supply, Gas and Electricity	5	..	..
Central Purchasing Committee	4	..	2
Department of Charities	3	..	1
Fire Department	2	..	2

Department.	Contracts Approved as to Form.	Contracts Examined and Returned for Revision.	Advertisements Approved as to Form.
Street Cleaning Department	2	..	..
Public Service Commission	1	..	..
Finance Department	1	..	..
Board of Water Supply	..	1	..
Total	76	1	10

Deeds Approved.

Finance Department	1

Bonds Approved.

Finance Department	19
Borough Presidents	12
City Clerk	4
Total	35

Leases Approved.

Dock Department	2
Finance Department	1
Total	3

Agreements Approved.

Public Service Commission	2
Dock Department	1
Total	3

SCHEDULE "E."
Opinions Rendered to the Various Departments.

Department.	Number of Opinions Rendered.	Department.	Number of Opinions Rendered.
Finance Department	36	Dock Department	2
Borough Presidents	5	Police Department	1
Board of Estimate and Apportionment	4	Examining Board of Plumbers.	1
City Clerk	3	Public Service Commission	1
Park Department	2	New York Botanical Gardens, Bronx, N. Y.	1
Fire Department	2		
Department of Public Works	2	Total	60

FRANK L. POLK, Corporation Counsel.

Changes in Departments, Etc.

FINANCE.

Collection of Taxes.

Services Ceased—Temporary Adding and Billing Machine Operator, June 30: Edythe Mazzie, 25 10th Ave., Long Island City.

DEPARTMENT OF PARKS.

Brooklyn.

Died—June 21, James Doolan, 1397 E. 7th street, Laborer. June 24, Henry Schroeder, Erasmus street, Laborer.

Queens.

Services Ceased — Temporary Watchman at $600 per annum, June 26. Joseph Utz, Forest Park, L. I.; William Thomas, 16 Shaw avenue, Woodhaven, L. I.; Frederick Nicklaus, 93 Water street, Woodhaven, L. I.

Reassigned—Laborers at $2.50 per day, June 27: Joseph Utz, Forest Park, L. I.; William Thomas, 16 Shaw avenue, Woodhaven, L. I.; Frederick Nicklaus, 93 Water street, Woodhaven, L. I.

Bronx.

Services Ceased—Charles Mallett, 2554 St. Raymond's avenue, Driver with Wagon and Team, June 25.

DEPARTMENT OF BRIDGES.

Appointed—Stationary Enginemen (for period of about seven weeks) at $4.50 per day, July 1: James Gray, 283 Grove Street, Brooklyn; John J. Jobert, 306 Cornelia St., Brooklyn; John Foy, 135 West 101st St.; Daniel J. Bernard, 50 Bay St., Rosebank, S. I.; Patrick Cassidy, Kelians Grove, Classon Point, Bronx. John Lynas, 1411 36th St., Brooklyn, Oiler at $3 per day, June 30.

Appointed—James P. Keogh, 1336 Jefferson Avenue, Brooklyn, Inspector of Steel at $1,650 per annum, June 30.

Reassigned—Edward McGrath, 133 Guernsey Street, Brooklyn, Bridge Tender, at $2.50 per day, July 1.

Compensation Fixed — Matthew J. Breen, 508 West 178th Street, Manhattan, Transitman at $1,500 per annum, July 1.

DEPARTMENT OF DOCKS AND FERRIES.

Retired—James Weir, Clerk, July 1.

Services Ceased—Laborers, June 23: George M. Sykes, John A. Marzinski, John Francis Duffy, Moses Gardner, Thomas F. Rice, Max Rothenberg, Robert E. Murphy, No. 2; Timothy B. Mullins, Samuel Reich, Frank McDermott, James Darcy, William Vogan, Isaac Bacon, Michael J. Baker, William Koch, William Farrell, John Lawlor, John Faulkner. Thomas R. Hughes, Machinist's Helper, June 28.

Transferred—James J. Lanigan, Laborer, to President, Borough of Manhattan, June 22.

Borough of The Bronx.

Report for week ended June 24, 1915, exclusive of Bureau of Buildings:

Permits Issued—Sewer connections and repairs, 22; water connections and repairs, 50; laying gas mains and repairs, 40; placing building material on public highway, 6; crossing sidewalk with team, 18; constructing vaults, 1; miscellaneous, 105. Total, 242.

Money Received and Deposited With City Chamberlain—Permits for sewer connections, $60; permits for restoring and repaving streets, $699.97; permits for constructing vaults, $27.15; permits for street signs, $15; sales, maps, $1.40. Total, $803.52.

Security deposits, received on account of permits and transmitted to Comptroller, $425.

Laboring Force Employed.

Bureau of Highways and Sewers—Foremen, 37; Asst. Foremen, 3; teams, 81; carts, 11; mechanics, 76; Laborers, 396; Drivers, 7. Total, 611.

Bureau of Public Buildings and Offices—Foreman, 1; Asst. Foreman, 1; mechanics, 10; Laborers, 22; Cleaners, 36; Watchmen, 2; Attendants, 4. Total, 76.

Topographical Bureau—Laborers, 5; Drivers, 1. Total, 6.

Contracts Entered Into—Pav. Gouverneur Pl., from Park Avenue to Washington Avenues, The Asphalt Const. Co., 208 Broadway, City; Mass. Bonding & Ins. Co. and National Surety Co., $1,754. Fur. tar road oil, Barrett Mfg. Co., 17 Battery Pl.; Aetna Accident & Liability Co., $14,390.25. Paving Commonwealth Avenue from Merrill St. to Tremont Avenue, The Asphalt Const. Co., 208 Broadway, City; Mass. Bonding & Ins. Co. and National Surety Co., $1,662.

DOUGLAS MATHEWSON, President.

BOARD OF REVISION OF ASSESSMENTS.

Proceedings of the Board of Revision of Assessments at a Meeting Held in Room 743, Municipal Building, at 10.30 o'Clock A. M., on Thursday, June 17, 1915.

Present—Alex. Brough, Deputy and Acting Comptroller; Louis H. Hahlo, Assistant and Acting Corporation Counsel; Lawson Purdy, President, Department of Taxes and Assessments.

The minutes of the meeting held May 20, 1915, were approved as printed.

Borough of The Bronx.

Regulating, Grading, Setting Curbstones, Flagging the Sidewalks, Laying Crosswalks, Building Approaches and Erecting Fences Where Necessary in Beach Avenue, from Walker Avenue to Tremont Avenue, Borough of The Bronx.

The Deputy and Acting Comptroller presented the assessment list for regulating, grading, setting curbstone, flagging the sidewalks, laying sidewalk, building approaches and erecting fences where necessary in Beach Avenue, from Walker Avenue to Tremont Avenue, in the Borough of The Bronx, together with all work incidental thereto, with objections of J. Fuelner, filed by F. J. Griffin, attorney, having been received from the Board of Assessors under date of June 10, 1915.

Mr. Griffin, attorney, was heard in opposition to the assessment.

On motion of the President of the Department of Taxes and Assessments, the hearing was laid over, to be continued at 2 o'clock p. m., on June 24, 1915.

Borough of Queens.

Regulating, Grading, Curbing and Guttering in Woodward Avenue, from the Brooklyn Rapid Transit Railroad Crossing to Catalpa (Elm) Avenue, Second Ward.

The Deputy and Acting Comptroller presented the assessment list for regulating, grading, curbing and guttering in Woodward Avenue, from the Brooklyn Rapid Transit crossing to Catalpa (Elm) Avenue, Second Ward, Borough of Queens, and all work incidental thereto, together with objections of Eliz. Schneider et al., filed by B. Trapnell, attorney, and B. Best et al., filed by Wm. E. Donavin, attorney, having been received from the Board of Assessors under date of June 12, 1915.

At the request of counsel, the matter was laid over until 2 o'clock p. m., June 24, 1915.

Regulating, Grading, Curbing and Laying Sidewalks in Madison Street, from Woodward Avenue to Forrest Avenue, Second Ward.

The Deputy and Acting Comptroller presented the assessment list for regulating, grading, curbing and laying sidewalks (where not already laid to grade and in good condition), and all work incidental thereto, in Madison Street, from Woodward Avenue to Forest Avenue, Second Ward, Borough of Queens, together with a list of awards for damages caused by a change of grade, and objections of Julia Hummel et al., filed by Thomas W. Henry, attorney, having been received from the Board of Assessors, under date of May 17, 1915.

Mr. Henry was heard in opposition to the assessment.

On motion of the Assistant and Acting Corporation Counsel, the assessment list was referred back to the Board of Assessors for further consideration.

Regulating, Grading, Curbing and Flagging Culver Place, from Hunt Place to Lake Street; Lake Street and Hunt Place, from Luona Avenue to Alburtis Avenue.

The Deputy and Acting Comptroller presented the assessment list for regulating, grading, curbing and flagging Culver Place from Hunt Place to Lake Street, Lake Street and Hunt Place from Luona Avenue to Alburtis Avenue, together with a list of awards for damages caused by a change of grade, with objections of B. Meyer et al., filed by B. Trapnell, attorney; Wm. J. Hamilton et al., filed by W. E. Donavin, attorney, and Kate Doyle in person, having been received from the Board of Assessors under date of May 17, 1915.

Mr. Trapnell and Mr. Donavin were heard in opposition to the assessment.

On motion of the President of the Department of Taxes and Assessments the objections filed against the assessment were overruled and the assessment list confirmed, all the members voting in the affirmative.

Borough of Brooklyn.

Paving with Asphalt on a Concrete Foundation 37th Street, from Fort Hamilton Parkway to 14th Avenue, Borough of Brooklyn.

The Deputy and Acting Comptroller presented the assessment list for paving with asphalt on a four-inch concrete foundation (preliminary pavements) on 37th Street from Fort Hamilton Parkway to 14th Avenue, Borough of Brooklyn, together with objections of the Brooklyn Rapid Transit Railway, filed by E. G. Yeomans, attorney, having been received from the Board of Assessors under date of June 15, 1915.

Mr. Yeomans, attorney, was heard in opposition to the assessment.

On motion of the President of the Department of Taxes and Assessments, the assessment list was referred back to the Board of Assessors for further consideration.

Borough of The Bronx.

Sewer and Appurtenances in Albany Crescent, Between West 231st Street and Bailey Avenue.

The Deputy and Acting Comptroller presented the assessment list for sewer and appurtenances in Albany Crescent between West 231st Street and Bailey Avenue, together with all work incidental thereto, with objections of the Estate of Godwin, filed by Deering & Deering, attorneys, having been received from the Board of Assessors under date of June 15, 1915.

Mr. James J. Dunn, representing Deering & Deering, attorneys, was heard in opposition to the assessment.

On motion of the President of the Department of Taxes and Assessments, the objections filed against the assessment were overruled, and the assessment list confirmed, all the members voting in the affirmative.

At 12.15 P. M. the Board adjourned.

JOHN KORB, JR., Chief Clerk.

BOARD OF REVISION OF ASSESSMENTS OF THE CITY OF NEW YORK.

Proceedings of the Board of Revision of Assessments at a Meeting Held in Room 743, Municipal Building, at 2 o'Clock P. M., on Thursday, June 24, 1915.

President—Alex. Bourgh, Deputy and Acting Comptroller; Louis H. Hahlo, Assistant and Acting Corporation Counsel; Lawson Purdy, President, Department of Taxes and Assessments.

Borough of The Bronx.

Regulating, Grading, Setting Curbstones, Flagging the Sidewalks, Laying Crosswalks, Building Approaches and Erecting Fences where Necessary in Beach Avenue, from Walker Avenue to Tremont Avenue, Borough of The Bronx.

The Deputy and Acting Comptroller presented the assessment list for regulating, grading, setting curbstone, flagging the sidewalks, laying sidewalk, building approaches and erecting fences where necesasry in Beach Avenue, from Walker Avenue to Tremont Avenue, in the Borough of The Bronx, together with all work incidental thereto, and objections of J. Fuelner, filed by F. J. Griffin, attorney, having been received from the Board of Assessors under date of June 10, 1915.

Mr. Griffin, attorney, was heard in opposition to the assessment.

On motion of the President of the Department of Taxes and Assessments the objections filed against the assessment were overruled and the assessment list confirmed, all the members voting in the affirmative.

Borough of Queens.

Regulating, Grading, Curbing and Guttering in Woodward Avenue, from the Brooklyn Rapid Transit Railroad Crossing to Catalpa (Elm) Avenue, Second Ward.

The Deputy and Acting Comptroller presented the assessment list for regulating, grading, curbing and guttering in Woodward Avenue, from the Brooklyn Rapid Transit crossing to Catalpa (Elm) Avenue, Second Ward, Borough of Queens, and all work incidental thereto, together with objections of Eliz. Schneider, et al., filed by B. Trapnell, attorney, and B. Best et al., filed by Wm. E. Donavin, attorney, having been received from the Board of Assessors under date of June 12, 1915.

Mr. Trapnell, attorney, was heard in opposition to the assessment.

On motion of the Assistant and Acting Corporation Counsel the objections filed against the assessment were overruled and the assessment list confirmed, all the members voting in the affirmative.

Borough of Brooklyn.

Paving with Asphalt on a Concrete Foundation 37th Street, from Fort Hamilton Parkway to 14th Avenue, Borough of Brooklyn.

The Deputy and Acting Comptroller presented the assesment list for paving with asphalt on a four-inch concrete foundation (preliminary pavements), on 37th Street, from Fort Hamilton Parkway to 14th Avenue, Borough of Brooklyn, together with objections of the Brooklyn Rapid Transit Railway filed by E. G. Yoemans,

attorney, having been received from the Board of Assessors under date of June 21, 1915.

Mr. Hoffman, representing Mr. Yoemans, attorney, was heard in opposition to the assessment.

On motion of the President of the Department of Taxes and Assessments, the assessment list was referred back to the Board of Assessors with directions to reduce assessment No. 1 to $411 and Assessment No. 13 to $1, and as so modified to confirm the assessment, all the members voting in the affirmative.

Regulating, Grading, Curbing and Laying Sidewalks in Madison Street, from Woodward Avenue to Forrest Avenue, Second Ward.

The Deputy and Acting Comptroller presented the assessment list for regulating, grading, curbing and laying sidewalks (where not already laid to grade and in good condition) and all work incidental thereto in Madison Street, from Woodward Avenue to Forest Avenue, Second Ward, Borough of Queens, together with a list of awards for damages caused by a change of grade, and objections of Julia Hummel et al., filed by Thomas W. Henry, Attorney, having been received from the Board of Assessors under date of June 21, 1915.

Mr. Henry was heard in opposition to the assessment.

On motion of the Assistant and Acting Corporation Counsel the assessment list was referred back to the Board of Assessors with instruction to take testimony as to what changes were made after the change of grade.

Borough of Manhattan.

Regulating, Grading, Curbing and Flagging Bennett Avenue, from West 181st Street to Broadway.

The Deputy and Acting Comptroller presented the assessment list for original contract, special agreement, and completing the work on abandoned contract for regulating and grading a new avenue (Bennett Avenue) about 200 feet west of and parallel with Broadway, from West 181st Street to Broadway, opposite Nagle Avenue, and objections of James Gordon Bennett, filed by Jay & Candler, attorneys; J. M. Libbey et al., filed by Parsons, Closson & McIlvaine, attorneys; Mary B. Crooke, filed by John A. Carney, attorney; A. L. Gross, filed by Samuel L. Gross, attorney; C. J. K. Billings, filed by Deering & Deering, attorneys; William F. Connors et al., filed by James A. Lynch, attorney; Mary H. Lester, filed by William C. Lester, attorney; and Dr. O. Gordon, J. N. Libbey and D. Harde, in person, having been received from the Board of Assessors under date of June 24, 1915.

At meeting held May 6, 1915, after hearing arguments by counsel and owners decision was reserved.

At meeting held May 20, 1915, the assessment was referred back to the Board of Assessors for further consideration.

On motion of the President of the Department of Taxes and Assessments the assessment list was referred back to the Board of Assessors with directions to further reduce the assessment $29,376.15, and as so modified to confirm the assessment, all the members voting in the affirmative.

At 3.15 P. M. the Board adjourned. JOHN KORB, Jr., Chief Clerk.

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.
Municipal Building, 3rd floor. Telephone, 1498 Worth.
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. 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. 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. 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 August, and the second and fourth Wednesdays in every month, except 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.
Edward F. Boyle, President.
Moses M. McKee, Secretary.
Other Borough Offices.
The Bronx.
368 E. 148th st. Telephone, 336 Melrose.
Brooklyn.
435-445 Fulton st. Telephone, 1932 Main.
Queens.
64 Jackson ave., 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 APPORTIONMENT.
Municipal Building, 13th floor. Telephone, 4560 Worth.
Joseph Haag, Secretary.
Bureau of Records and Minutes.
Municipal Building, 13th floor. Telephone, 4560 Worth. Joseph Haag, Secretary.
Office of the Chief Engineer.
Municipal Building, 13th floor. Telephone, 4560 Worth. Nelson P. Lewis, Chief Engineer.
Bureau of Public Improvements.
Municipal Building, 13th floor. Telephone, 4560 Worth. Nelson P. Lewis, Chief Engineer.
Bureau of Franchises.
Municipal Building, 13th floor. Telephone, 4563 Worth. Harry P. Nichols, Engineer.
Bureau of Contract Supervision.
Municipal Building, 13th floor. Telephone, 4560 Worth. Central Testing Laboratory, 125 Worth St. Telephone, 3088 Franklin. Tilden Adamson, Director.
Bureau of Standards.
Municipal Building, 13th floor. Telephone, 4560 Worth. George L. Tirrell, Director.
Bureau of Sewer Plan.
Municipal Building, 12th floor. Telephone. 4227 Worth. Kenneth Allen, Engineer.

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.
Bronx—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. E. Ebstein, Receiver of Taxes.
Collector of Assessments and Arrears.
Manhattan—Municipal Building, 3d floor. Telephone, 1200 Worth.
Bronx—177th St. and Arthur Ave. Telephone, 47 Tremont.
Brooklyn—503 Fulton st. Telephone, 8340 Main.
Queens—Municipal Building, Court 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, 7600 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 sts. 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 Montague 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.
Brooklyn—381 Fulton Street. 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.
Public Employment Bureau—Men's departments, 128 Leonard st.; Women's departments, 53 Lafayette st. Telephone, 6100 Franklin.

MUNICIPAL CIVIL SERVICE COMMISSION.
Municipal Building, 14th floor. Telephone, 1580 Worth.
Henry Moskowitz, President.
Robert W. Belcher, Secretary.

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

DEPARTMENT OF PARKS.
Municipal Building, 10th Floor. Telephone, 4850 Worth.
Cabot Ward, Commissioner, Manhattan and Richmond.
Borough of Brooklyn.
Litchfield Mansion, Prospect Park, Brooklyn. Telephone, 2300 South.
Raymond V. Ingersoll, Commissioner.
Borough of The Bronx.
Zbrowski Mansion, Claremont Park. Telephone, 2640 Tremont.
Thomas W. Whittle, Commissioner.
Borough of Queens.
The Overlook, Forest Park, Richmond Hill, L. I. Telephone, 2300 Richmond Hill.
John E. Weier, Commissioner.
PARK BOARD.
Municipal Building, 10th floor. Telephone, 4850 Worth. Cabot Ward, President. Louis W. Fehr, Secretary.

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 59th 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, 5th 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, jr., Chief Clerk.

COMMISSIONERS OF SINKING FUND.
Office of Secretary, Municipal Building, 7th floor. Telephone, 1200 Worth.
John Korb, jr., Secretary.

DEPARTMENT OF TAXES AND ASSESSMENTS.
Municipal Building, 9th floor. Telephone, 1800 Worth.
Lawson Purdy, President.
C. Rockland Tyng, Secretary.

DEPARTMENT OF STREET CLEANING.
Municipal Building, 12th floor. Telephone, 4240 Worth.
John T. Fetherston, Commissioner.

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.
Charles Strauss, President.
W. Bruce Cobb, Secretary.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.
Municipal Building, 23d, 24th and 25th floors. Telephones: Manhattan, 4320 Worth; Brooklyn, 3980 Main; Queens, 3441 Hunters Point; Richmond, 840 Tompkinsville; Bronx, 3400 Tremont.
Brooklyn, Municipal Building, Brooklyn. Bronx, Tremont and Arthur aves. Queens, Municipal Building, Long Island City. Richmond, Municipal Building, St. George.
William Williams, Commissioner.

BOROUGH OFFICES.

BOROUGH OF THE BRONX.
President's office, 3d ave. and 177th st. Telephone, 2680 Tremont.
Douglas Mathewson, President.

BOROUGH OF BROOKLYN.
President's office, Borough Hall. Telephone, 3960 Main.
Lewis H. Pounds, President.

BOROUGH OF MANHATTAN.
President's office, 20th floor, Municipal Bldg.
Commissioner of Public Works, 21st floor, Municipal Building.
Assistant Commissioner of Public Works, 21st floor, Municipal Building.
Bureau of Highways, 21st floor, Municipal Building.
Bureau of Public Buildings and Offices, 20th floor, Municipal Building.
Bureau of Sewers, 21st floor, Municipal 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. 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. Telephone, 1000 Tompkinsville.
Charles J. McCormack, President.

CORONERS.
Manhattan, Municipal Building—Second Floor. Open at all hours of the day and night. Telephone, Worth 3711.
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.
Wm. 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.; Saturdays, to 12 m. Telephone, 2304 Franklin.
Charles Albert Perkins, District Attorney.

COMMISSIONER OF JURORS.
280 Broadway. Telephone, 241 Worth.
Thomas Allison, Commissioner.

PUBLIC ADMINISTRATOR.
119 Nassau st. Telephone, 6376 Cortlandt.
William M. Hoes, 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.
51 Chambers st. Telephone, 4300 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.
William Ray De Lano, Chief Clerk.
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 JURORS.
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.
Hebert T. Ketcham, Surrogate.
John H. McCooey, 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 JURORS.
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 3 ave.
George M. S. Schulz, Surrogate.

QUEENS COUNTY.

COUNTY CLERK.
364 Fulton st., Jamaica. Telephone, 151 Jamaica.
Leonard Ruoff, 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.

Denis O'Leary, District Attorney.

COMMISSIONER OF JURORS.

County Court House, Long Island City. Telephone, 963 Hunters Point.

Thorndyke C. McKennee, Commissioner.

PUBLIC ADMINISTRATOR.

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

Randolph White, Public Administrator.

SHERIFF.

County Court House, Long Island City. Telephone, 3766 Hunters Point.

George Emener, 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 JURORS.

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.

William McAdoo, Chief City Magistrate, 300 Mulberry st. Telephone, 6213 Spring.

First District—Criminal Court Buildings.

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 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—318 Adams st.

Second District—Court and Butler sts.

Fifth District—249 Manhattan ave.

Sixth District—495 Gates ave.

Seventh District—31 Snider ave., Flatbush.

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.

William F. Delaney, Chief Clerk.

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, 4358 Murray Hill.

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 sts. 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 st. 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, 3840 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 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 will meet in Room 16, City Hall, at 10 o'clock A. M. on Thursday, July 1, 1915; Thursday, July 29, 1915; Thursday, August 26, 1915, and Friday, September 17, 1915, upon which latter date the Board will resume its regular meetings on Friday of each week.

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.

BOROUGH OF THE BRONX.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of The Bronx, at his office, Municipal Building, Crotona Park, 177th St. and 3rd Ave., until 10.30 a. m., on

THURSDAY, JULY 15, 1915,

NO. 1. FOR REGULATING, GRADING, SETTING CURBSTONES, FLAGGING SIDEWALKS, LAYING CROSSWALKS,, BUILDING APPROACHES AND ERECTING FENCES WHERE NECESSARY IN *ROSEWOOD STREET,* FROM BRONX BOULEVARD TO WHITE PLAINS AVENUE, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

3,400 Cubic Yards of Earth Excavation.
150 Cubic Yards of Rock Excavation.
3,900 Cubic Yards of Filling.
1,600 Linear Ft. of New Curb.
25 Linear Ft. of Old Curb.
5,470 Square Ft. of New Bluestone Flagging.
800 Square Ft. of Old Flagging.
900 Square Ft. of New Bridgestone.
420 Cubic Yards of Dry Rubble Masonry.
80 Linear Feet of Vitrified Pipe, 12 inches in diameter.
1,000 Feet B. M. Timber.
400 Linear Feet Guard Rail.

The time allowed for the full completion of the work herein described will be 85 consecutive working days.

The amount of security required will be Two thousand nine hundred Dollars ($2,900).

NO. 2. FOR REGULATING, GRADING, SETTING CURBSTONES, FLAGGING SIDEWALKS, LAYING CROSSWALKS. BUILDING APPROACHES AND ERECTING FENCES WHERE NECESSARY IN *GLOVER STREET,* FROM CASTLE HILL AVENUE TO WESTCHESTER AVENUE, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

1,250 Cubic Yards of Earth Excavation.
100 Cubic Yards of Rock Excavation.
7,900 Cubic Yards of Filling.
2,800 Linear Ft. of New Curb.
14,200 Square Ft. Concrete sidewalk (including maintenance for one year).
325 Square Ft. New Bridgestone.
800 Cubic Yards Dry Rubble Masonry.
100 Linear Ft. Vitrified Pipe, 12 inches in diameter.
1,000 Feet B. M. Timber.
1,550 Linear Ft. Guard Rail.
8 Cubic Yards Brick Masonry.

The time allowed for the full completion of the work herein described will be 100 consecutive working days.

The amount of security required will be Four thousand five hundred Dollars ($4,500).

NO. 3. FOR REGULATING, GRADING, SETTING CURBSTONES, FLAGGING SIDEWALKS, LAYING CROSSWALKS, BUILDING APPROACHES AND ERECTING FENCES WHERE NECESSARY IN *HOLLAND AVENUE,* FROM BAKER AVENUE TO HUNT AVENUE, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

1,850 Cubic Yards of Earth Excavation.
250 Cubic Yards of Rock Excavation.
16,500 Cubic Yards of Filling.
4,160 Linear Feet of New Curb.
20,800 Square Feet Concrete sidewalk (including maintenance for one year).
560 Square Feet of New Bridgestone.
775 Cubic Yards of Dry Rubble Masonry.
15 Cubic Yards Class A. Concrete.
500 Linear feet Vitrified Pipe, 12 inches in diameter.
1,000 Feet B. M. Timber.
3,000 Linear Feet Guard Rail.
1,100 Pounds Steel Reinforcement Bars.
2 Type B. Inlets.
3 Manholes.
10 Cubic Yards Brick Masonry.

The time allowed for the full completion of the work herein described will be 150 consecutive working days.

The amount of security required will be Seven thousand two hundred dollars ($7,200).

NO. 4. FOR PAVING WITH BITUMINOUS CONCRETE ON A CEMENT CONCRETE FOUNDATION THE ROADWAY OF *EAST 174TH STREET,* FROM THE WESTERLY SIDE OF BRYANT AVENUE TO BOONE AVENUE, ADJUSTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO. (PRELIMINARY PAVEMENT.)

The Engineer's estimate of the work is as follows:

2,970 Square Yards Bituminous Concrete Pavement, and keeping the pavement in repair for five years from date of acceptance.
345 Cubic Yards of Class B. Concrete.
475 Linear Feet of Curbstone, adjusted.

The time allowed for the full completion of the work herein described will be 30 consecutive working days.

The amount of security required will be One thousand eight hundred Dollars ($1,800).

NO. 5. FOR PAVING WITH BITUMINOUS CONCRETE ON A CEMENT CONCRETE FOUNDATION THE ROADWAY OF *ALBANY CRESCENT,* FROM BAILEY AVENUE, SOUTH OF WEST 231ST STREET, TO BAILEY AVENUE AT WEST 233D STREET, ADJUSTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO. (PRELIMINARY PAVEMENT.)

The Engineer's estimate of the work is as follows:

4,525 Square Yards of Bituminous Concrete Pavement, and keeping the pavement in repair for five years from the date of acceptance.
515 Cubic Yards of Class B. Concrete.
2,480 Linear Feet of Curbstone, adjusted.

The time allowed for the full completion of the work herein described will be 30 consecutive working days.

The amount of security required will be Three thousand Dollars ($3,000).

NO. 6. FOR PAVING WITH BITUMINOUS CONCRETE ON A CEMENT CONCRETE FOUNDATION THE ROADWAY OF *EAST 190TH STREET,* FROM JEROME AVENUE TO CRESTON AVENUE, ADJUSTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO. (PRELIMINARY PAVEMENT.)

The Engineer's estimate of the work is as follows:

2,200 Square Yards of Bituminous Concrete Pavement, and keeping the pavement in repair for five years from date of acceptance.
250 Cubic Yards of Class B. Concrete.
1,300 Linear Feet of Curbstone, adjusted.

The time allowed for the full completion of the work herein described will be 20 consecutive working days.

The amount of security required will be One thousand four hundred dollars ($1,400).

NO. 7. FOR CONSTRUCTING SEWER AND APPURTENANCES IN *SPENCER AVENUE,* BETWEEN WEST 261ST STREET AND SUMMIT SOUTH OF WEST 261ST STREET, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

306 Linear Feet of Vitrified Pipe Sewer, 12-inch.
25 Linear Feet of Vitrified Pipe Sewer, 12-inch to 24-inch.
44 Spurs for House Connections.
3 Manholes.
100 Cubic Yards of Rock Excavation.
20 Cubic Yards of Concrete, Class C.
2.000 Feet (B. M.) of Timber Sheeting.

The time allowed for the full completion of the work herein described will be 50 consecutive working days.

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

NO. 8. FOR CONSTRUCTING SEWERS AND APPURTENANCES IN *ST. RAYMOND AVENUE,* BETWEEN ODELL STREET AND OLMSTEAD AVENUE; *OLMSTEAD AVENUE,* BETWEEN ST. RAYMOND AVENUE AND BENEDICT AVENUE, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

260 Linear Feet of Concrete Sewer, 42″ x 56″.
528 Linear Feet of Concrete Sewer, 29″ x 40″.
322 Linear Feet of Vitrified Pipe Sewer, 20-inch.
24 Linear Feet of Vitrified Pipe Sewer, 18-inch.
206 Linear Feet of Vitrified Pipe Sewer, 15-inch.
15 Linear Feet of Vitrified Pipe Sewer, 12-inch.
125 Linear Feet of Basin Connections.
50 Linear Feet of Vitrified Pipe Drains, 12-inch to 24-inch.
147 Spurs for House Connections.
13 Manholes.
3 Receiving Basins, Type B.
350 Cubic Yards of Rock Excavation.
55 Cubic Yards of Concrete, Class C.
1,000 Feet (B. M.) Timber Sheeting.

The time allowed for the full completion of the work herein described will be 150 consecutive working days.

The amount of security required will be Five thousand Dollars ($5,000).

NO. 9. FOR CONSTRUCTING SEWERS AND APPURTENANCES IN *HERSCHELL STREET,* BETWEEN WESTCHESTER AVENUE AND SUMMIT EAST OF HALSEY STREET; *BUTLER PLACE,* BETWEEN ZEREGA AVENUE AND HERSCHELL STREET, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

280 Linear Feet of Vitrified Pipe Sewer, 24-inch.
264 Linear Feet of Vitrified Pipe Sewer, 20-inch.
475 Linear Feet of Vitrified Pipe Sewer, 12-inch.
30 Linear Feet of Basin Connections.
50 Linear Feet of Vitrified Pipe Drains, 12-inch to 24-inch.
123 Spurs for House Connections.
12 Manholes.
1 Manhole, rebuilt.
1 Receiving Basin, Type C.
50 Cubic Yards of Rock Excavation.
90 Cubic Yards of Concrete, Class C.
2,000 Feet (B. M.) of Timber Sheeting.

The time allowed for the full completion of the work herein described will be 100 consecutive working days.

The amount of security required will be Two thousand five hundred dollars ($2,500).

NO. 10. FOR CONSTRUCTING SEWER AND APPURTENANCES IN *POPLAR STREET,* BETWEEN LURTING AVENUE AND ROSELLE STREET, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

562 Linear Feet of Vitrified Pipe Sewer, 12-inch.
25 Linear Feet of Vitrified Pipe Drains, 12-inch to 24-inch.
72 Spurs for House Connections.
6 Manholes.
25 Cubic Yards of Rock Excavation.
35 Cubic Yards of Class C. Concrete.
1,000 Feet (B. M.) of Timber Sheeting.

The time allowed for the full completion of the work herein described will be 60 consecutive working days.

The amount of security required will be One thousand two hundred dollars ($1,200).

NO. 11. FOR CONSTRUCTING RECEIVING BASINS AND APPURTENANCES AT THE NORTHWEST, NORTHEAST AND SOUTHWEST CORNERS OF *DAVIDSON AVENUE* AND TREMONT AVENUE; ON THE NORTHEAST CORNER OF *GRAND AVENUE* AND TREMONT AVENUE; ON THE NORTH SIDE OF *TREMONT AVENUE,* WEST OF GRAND AVENUE; ON THE WEST SIDE OF *GRAND AVENUE,* NORTH OF TREMONT AVENUE; ON THE WEST SIDE OF *TREMONT AVENUE,* OPPOSITE GRAND AVENUE; AT THE SOUTHWEST CORNER OF *GRAND AVENUE* AND TREMONT AVENUE, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

150 Linear Feet of Basin Connections.
7 Receiving Basins, Type B.
20 Cubic Yards of Rock Excavation.
10 Cubic Yards of Class C. Concrete.
4.000 Feet (B. M.) of Timber Sheeting.

The time allowed for the full completion of the work herein described will be 30 consecutive working days.

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

NO. 12. FOR CONSTRUCTING SEWERS AND APPURTENANCES IN WEST *176TH STREET,* BETWEEN JEROME AVENUE AND MACOMBS ROAD; *DAVIDSON AVENUE,* BETWEEN WEST 176TH STREET AND WEST 174TH STREET; *GRAND AVENUE,* BETWEEN WEST 176TH STREET AND MACOMBS ROAD; *WEST 175TH STREET,* BETWEEN GRAND AVENUE AND MACOMBS ROAD; *WEST 174TH STREET,* BETWEEN DAVIDSON AVENUE AND MACOMBS ROAD; *FEATHERBED LANE,* BETWEEN JEROME AVENUE AND MACOMBS ROAD; *INWOOD AVENUE,* BETWEEN BELMONT STREET AND FEATHERBED LANE; *BELMONT STREET,* BETWEEN INWOOD AVENUE AND MACOMBS ROAD; AND REGULATING, GRADING, SETTING CURBSTONES, FLAGGING THE SIDEWALKS, LAYING CROSSWALKS, BUILDING APPROACHES AND ERECTING FENCES WHERE NECESSARY AND BUILDING STEPS AND APPURTENANCES WHERE REQUIRED IN *GRAND AVENUE,* FROM MACOMBS ROAD TO WEST 176TH STREET; *DAVIDSON AVENUE,* FROM FEATHERBED LANE TO WEST 176TH STREET; *WEST 174TH STREET,* FROM MACOMBS ROAD TO DAVIDSON AVENUE; *WEST 175TH STREET,* FROM GRAND AVENUE TO MACOMBS ROAD, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

18,450 Cubic Yards of Earth Excavation.
21,500 Cubic Yards of Rock Excavation, above subgrade of street.
5,425 Cubic Yards of Rock Excavation, in trenches.
12.800 Cubic Yards of Filling.
6.020 Linear Feet of New Curb.
80 Linear Feet of Old Curb.
31,500 Square Feet of Concrete sidewalk.
1,700 Square feet of New Bridgestone.
580 Cubic Yards of Dry Rubble Masonry.
50 Cubic Yards of Rubble masonry in mortar.
30 Cubic Yards of Broken Range Ashlar Masonry.
5 Cubic Yards of Class A. Concrete.
10 Cubic Yards of Class B. Concrete.
225 Cubic Yards of Class C. Concrete.
355 Cubic Feet of Granite Steps.

170 Cubic Feet of Granite Coping.
296 Linear Feet of Vitrified Pipe Sewer, 30-inch.
822 Linear Feet of Vitrified Pipe Sewer, 24-inch.
270 Linear Feet of Vitrified Pipe Sewer, 20-inch.
730 Linear Feet of Vitrified Pipe Sewer, 18-inch.
270 Linear Feet of Vitrified Pipe Sewer, 15-inch.
3,135 Linear Feet of Vitrified Pipe Sewer, 12-inch.
338 Linear Feet of Basin Connections, 12-inch.
15 Linear Feet of Basin Connections, 8-inch.
50 Linear Feet of Vitrified Pipe Drains, 12-inch.
675 Spurs for House Connections.
59 Manholes.
13 Receiving Basins, Type C.
1 Receiving Basin (Special).
1 Inlet (Special).
100 Pounds of Steel Reinforcement Bars.
6 Lamp posts.
1 Subway Conduit System.
1,000 Feet (B. M.) of Timber.
7,000 Feet (B. M.) of Timber Sheeting.
2,100 Square Feet of Sodding.
260 Linear Feet of Iron Pipe Railing.
1,300 Linear Feet of Guard Rail.

The time allowed for the full completion of the work herein described will be 250 consecutive working days.

The amount of security required will be Forty-four thousand dollars ($44,000).

NO. 13. FOR CONSTRUCTING SEWERS AND APPURTENANCES IN *RANDALL AVENUE*, FROM METCALF AVENUE TO BRONX RIVER AVENUE; *BRONX RIVER AVENUE*, FROM RANDALL AVENUE TO DAMIS AVENUE, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

514 Linear Feet of Concrete Sewer, 6' 9" x 6' 0".
557 Linear Feet of Concrete Sewer, 6' 6" x 6' 0".
312 Linear Feet of Concrete Sewer, 5' 9" x 6' 0".
312 Linear Feet of Concrete Sewer, 5' 6" x 6' 0".
1,516 Linear Feet of Concrete Sewer, 5' 3" x 6' 0".
78 Linear Feet of Vitrified Pipe Sewer, 20-inch.
38 Linear Feet of Vitrified Pipe Sewer, 18-inch.
38 Linear Feet of Vitrified Pipe Sewer, 15-inch.
294 Linear Feet of Vitrified Pipe Sewer, 12-inch.
60 Linear Feet of Basin Connections.
200 Linear Feet of Vitrified Pipe Drains, 12-inch to 30-inch.
385 Spurs for House Connections.
30 Manholes.
2,600 Square Yards of Slope Pavement.
1,300 Cubic Yards of Rock Excavation.
1,450 Cubic Yards of Class B. Concrete.
30 Cubic Yards of Class C. Concrete.
50 Cubic Yards of Dry Rubble Masonry.
50 Cubic Yards of Stone Ballast.
60,000 Pounds of Steel Reinforcement Bars.
50,000 Feet (B. M.) of Timber.
5,000 Feet (B. M.) of Timber Sheeting.
68,000 Linear Feet of Piles.

The time allowed for the full completion of the work herein described will be 300 consecutive working days.

The amount of security required will be Forty thousand dollars, $40.000.

Blank forms of bids or estimates upon which bids must be made can be obtained upon application therefor, the plans and specifications may be seen and other information obtained at said office. DOUGLAS MATHEWSON, President.

jy1,15

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

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of The Bronx, at his office, Municipal Building, Crotona Park, 177th St. and 3rd Ave., until 10.30 a. m., on

THURSDAY, JULY 8, 1915,

NO. 1. FOR FURNISHING AND DELIVERING LONG LEAF YELLOW PINE LUMBER.

The time allowed for the performance of the contract is on or before December 31, 1915.

The amount of security for the performance of the contract shall be thirty (30) per cent. of the total amount for which the contract is awarded.

NO. 2. FOR FURNISHING AND DELIVERING SPRUCE LUMBER AND CHESTNUT POSTS.

The time allowed for the performance of the contract is on or before December 31, 1915.

The amount of security for the performance of the contract shall be thirty (30) per cent. of the total amount for which the contract is awarded.

NO. 3. FOR FURNISHING AND DELIVERING GRITS AND WASH SAND.

The time allowed for the performance of the contract is as directed during the year 1915.

The amount of security for the performance of the contract shall be thirty (30) per cent. of the total amount for which the contract is awarded.

Blank forms of bids or estimates upon which bids must be made can be obtained upon application therefor, the specifications may be seen and other information obtained at said office.

j26,jy8 DOUGLAS MATHEWSON, President.

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

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

Proposals.

SEALED BIDS WILL BE RECEIVED BY the Commissioner of Water Supply, Gas and Electricity at Room 2342, Municipal Building, Manhattan, until 11 A. M. on

TUESDAY, JULY 13, 1915,

FOR FURNISHING AND MAINTAINING OPEN FLAME GAS LAMPS AND MANTLE GAS LAMPS FOR LIGHTING STREETS, PARKS AND PUBLIC PLACES THROUGHOUT THE BOROUGH OF MANHATTAN FROM JULY 15, 1915, TO DECEMBER 31, 1915, BOTH INCLUSIVE.

The amount of security required is twenty-five per cent. (25%) of the total amount of the bid in each case.

Blank forms of bid, proposals and contract, including specifications approved as to form by the Corporation Counsel, can be obtained at Room 2324 in the Municipal Building, Manhattan, New York City.

Dated, New York, June 29, 1915.

jy1,13 WILLIAM WILLIAMS, Commissioner.

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

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at Room 2351, Municipal Building, Manhattan, until 2 o'clock p. m., on

MONDAY, JULY 12, 1915,
Boroughs of Manhattan, The Bronx and Brooklyn,

FOR FURNISHING, DELIVERING AND LAYING WATER MAINS AND APPURTENANCES:

SECTION I—FOR CONNECTIONS BETWEEN THE DISTRIBUTION SYSTEM AND VARIOUS SHAFTS OF THE CITY TUNNEL, CATSKILL AQUEDUCT, IN THE BOROUGH OF THE BRONX.

SECTION II—FOR CONNECTIONS BETWEEN THE DISTRIBUTION SYSTEM AND VARIOUS SHAFTS OF THE CITY TUNNEL, CATSKILL AQUEDUCT, IN THE BOROUGH OF MANHATTAN.

SECTION III—FOR CONNECTIONS BETWEEN THE DISTRIBUTION SYSTEM AND SHAFT 22 OF THE CITY TUNNEL OF THE CATSKILL AQUEDUCT AND THE BROOKLYN CONDUIT IN THE BOROUGH OF BROOKLYN.

The time allowed for doing and completing the entire work will be One Hundred and Ten (110) consecutive working days on Section I; One Hundred and Fifty (150) consecutive working days on Section II; Seventy-five (75) consecutive working days on Section III.

The security required will be Twenty Thousand Dollars ($20,000) on Section I; Thirty-five Thousand Dollars ($35,000) on Section II; and Eight Thousand Dollars ($8,000) on Section III.

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. Bids will be received for each section singly, or for all sections, but in comparing the bids, the bids will be compared separately and the contract awarded to the lowest formal bidder in the aggregate for all items on each Section.

Blank forms of bid, proposals and contract, including specifications, approved as to form by the Corporation Counsel, can be obtained at Room 2351, in the Municipal Building, Manhattan, New York City.

Dated, New York, June 25, 1915.

WILLIAM WILLIAMS, Commissioner.

j30,jy12

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

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at Room 2351, Municipal Building, Manhattan, until 2 p. m., on

MONDAY, JULY 12, 1915,
Boroughs of Manhattan and The Bronx.

FOR FURNISHING AND DELIVERING LEAD LINED ELBOWS, LEAD LINED NIPPLES AND LEAD LINED PIPE.

The time allowed for the performance of the contract is thirty (30) calendar days.

The amount of security for the performance of the contract shall be thirty (30%) per cent. of the total amount for which the contract is awarded.

The Bidder will state the price per unit of each item of materials 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 the aggregate for all the materials or supplies contained in the specifications and schedules of quantities.

Blank forms of bid, proposals and contract, including specifications, approved as to form by the Corporation Counsel, can be obtained at Room 2351, in the Municipal Building, Manhattan, New York City.

WILLIAM WILLIAMS, Commissioner.

June 26, 1915. j30,jy12

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

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at Room 2351, Municipal Building, Manhattan, until 2 o'clock p. m., on

MONDAY, JULY 12, 1915,
Borough of Brooklyn.

FOR ALTERATIONS AND IMPROVEMENTS AT NEW UTRECHT PUMPING STATION, NORTHEAST CORNER OF AVENUE V AND EAST 14TH STREET, AND CONVERTING SAME INTO A DISTRIBUTION STATION:

Section I—For all mason work, steel and iron work, sheet metal work, carpenter work, roofing, painting, glazing and electrical work.

Section II—For all plumbing and gas fitting.

Section III—For all steam heating work.

The time allowed for doing and completing the entire work will be One Hundred and Fifty (150) Consecutive Working Days on Section I; Fifty Consecutive Working Days on Section II; Fifty (50) Consecutive Working Days on Section III.

The security required will be Seven Thousand Dollars ($7,000) on Section I; Seven Hundred Dollars ($700) on Section II; Seven Hundred Dollars ($700) on Section III.

The bidder will state the price of work and materials contained in the specifications or schedules, by which the bids will be tested. Bids will be received for each section singly, or for all sections, but in comparing the bids, the bids will be compared separately and the contract awarded to the lowest formal bidder on each Section.

Blank forms of bid, proposals and contract, including specifications, approved as to form by the Corporation Counsel, can be obtained at Room 2351, in the Municipal Building, Manhattan, New York City.

Dated, New York, June 26, 1915.

WILLIAM WILLIAMS, Commissioner.

j29,jy12

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

DEPARTMENT OF PUBLIC CHARITIES.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities, Tenth Floor, Municipal Building, Borough of Manhattan, until 10.30 o'clock a. m., on

TUESDAY, JULY 13, 1915,

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION OF LIGHTNING RODS IN CERTAIN BUILDINGS ON RANDALL'S ISLAND AND IN THE NEW YORK CITY FARM COLONY, BOROUGH OF RICHMOND.

The time allowed for doing and completing the entire work and the full performance of the contract is sixty (60) consecutive working days.

The surety required will be Three Thousand Dollars ($3,000).

A deposit of five (5) per cent. of the amount of security required in cash or certified check must accompany each 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 H. F. J. Porter and A. L. A. Himmelwright, Consulting Engineers, 46 West 24th Street, The City of New York, where plans and specifications may be seen.

JOHN A. KINGSBURY, Commissioner.

Dated July 1, 1915. jy1,13

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

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities, Tenth Floor, Municipal Building, Borough of Manhattan, until 10.30 o'clock a. m., on

THURSDAY, JULY 1, 1915,

FOR FURNISHING AND DELIVERING DRY GOODS, BLANKETS, WINDOW SHADES, ETC.

The time for the performance of the contract is up to and including July 20, 1915.

No bond will be required with the bid, as heretofore.

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

The bidder will state the price per dozen 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 specications.

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, Tenth Floor, Municipal Building, Borough of Manhattan.

JOHN A. KINGSBURY, Commissioner.

Dated June 21, 1915. j21,jy1

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

PUBLIC SERVICE COMMISSION.

Invitation to Contractors.

For the Supply of Open-Hearth Rail for Use in the Construction of Rapid Transit Railroads.

The Public Service Commission for the First District (hereinafter called the "Commission"), acting in behalf of The City of New York, invites proposals to supply Open-Hearth Rail for use in the construction of rapid transit railroads.

A fuller description of the materials to be supplied is set forth and other requirements, provisions, details and specifications are stated in the form of contract and in the specifications and contract drawings therein referred to. Copies of the form of contract, specifications, contract drawings, bond and Contractor's Proposal may be inspected and purchased at the office of the Commission.

Sealed bids or proposals will be received at said office of the Commission at No. 154 Nassau Street, Borough of Manhattan, New York City, until the 16th day of July, 1915, 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.

The Materials are to be delivered in lots. The first lot is to be ready for delivery within sixty (60) days after the delivery of the contract and the remaining lots are to be delivered from time to time as called for and the deliveries are to be completed on or before December 31, 1916, except as otherwise provided in the form of contract. Bidders must specify in their proposals the minimum and the maximum rate at which they will deliver the materials for the prices bid. In view of the Commission's variable requirements from time to time the amount of latitude allowed between such minimum and maximum rates of delivery as set forth in the Contractor's Proposal will be considered, as well as the prices contained therein, in awarding the contract.

Proposals must be in the form prescribed by the Commission. Every proposal must, when submitted, be enclosed in a sealed envelope endorsed *"Proposal for Supplying Open-Hearth Rail, Order No. 3,"* 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.

Every proposal must be accompanied by a certified check for ten thousand dollars ($10,000), payable to the order of the Comptroller of The City of New York and drawn upon a national or state bank or trust company satisfactory to the Commission and having its principal office in New York City.

Deposits made by bidders whose proposals are not accepted will be returned within three (3) days after the contract is executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions in respect of the bond or deposit are complied with.

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.

The right to reject any and all bids is reserved.

New York, June 29, 1915.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, By EDWARD E. McCALL, Chairman.

TRAVIS H. WHITNEY, Secretary. jy1,16

Part of the Culver 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. 1 of Route No. 49, a part of the Culver 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. 1. Beginning in private property on the southerly side of 37th Street, about two hundred and forty-six (246) feet southeasterly from the southeast building line of Tenth Avenue, in the Borough of Brooklyn, and continuing thence southeasterly over private property and parallel to 37th Street and crossing over intersecting streets to West Street; thence continuing southeasterly over West Street, private property, Cortelyou Road and private property to Gravesend Avenue; thence continuing southerly over Gravesend Avenue to a point about five hundred and twenty-five (525) feet south of the intersection of the center line of Gravesend Avenue and the southerly building line of Bay Parkway (Twenty-second Avenue) produced.

The general plan of construction calls for an elevated railroad having three tracks.

The Contractor will not be required to provide or lay tracks or ties 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 movement of certain street surface railroad tracks laterally, the maintenance of traffic and the restoration of pavements and other surfaces.

Bidders must examine the form of contract, the specifications and the 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.

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 fifteen (15) 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 one hundred thousand dollars ($100,000). As further security fifteen per centum (15%) of the amounts certified from time to time to be due to the Contractor will be deducted until the amounts so deducted shall equal ten per centum (10%) 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 per centum (10%) 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 20th day of July, 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 No. 49, 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 twenty-five thousand dollars ($25,000), 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, June 29, 1915.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, By EDWARD E. McCALL, *Chairman.*

TRAVIS H. WHITNEY, *Secretary.* j30,jy20

Installation of Tracks for Rapid Transit Railroad.

The Public Service Commission for the First District (hereinafter called the "Commission") invites proposals to install tracks for that portion of the Broadway-Fourth Avenue Rapid Transit Railroad in the Borough of Brooklyn, which is briefly described as follows:

A three-track elevated railroad beginning at a point in private property near 38th Street and 10th Avenue and extending thence over private property to 10th Avenue; thence over 10th Avenue and New Utrecht Avenue to a point at or near 81st Street; thence over private property and cross streets to a point in 86th Street near 19th Avenue; thence over 86th Street to a point at or near Bay 41st Street; thence over private property and 26th Avenue to Stillwell Avenue; and thence over Stillwell Avenue to a point at or near Avenue Y.

The Contractor will not be required to furnish Open-Hearth Rail, Rolled Manganese Rail, Track Rail Splice Bars, Anti-Creepers, Cast Iron (Separators), Cut Track Spikes, Screw Spikes and Lag Screws, Ties and Timber, Bolts and Nuts, Nut Locks, Malleable Iron (Rail Braces, Washers and End Inclines), Tie Plates (Types A, B, C, D, W and X), Hand Rail, or Special Work (Frogs and Switches) which are to form a part of the completed tracks, but the City will supply such materials to the Contractor; nor will the Contractor be required to furnish or install electrical or signal material or apparatus. The work under the contract will include all other work, labor and material necessary for the complete installation of the tracks and for the transportation of material supplied by the City.

It may be possible for bidders to make arrangements with South Brooklyn Railway Company for the transportation of materials from the City storeyard at the foot of 38th and 39th Streets to said railroad after the construction work in the 38th Street. Cut has been sufficiently advanced, but bidders must inform themselves upon this point and make all arrangements upon their own responsibility and at their own risk.

A fuller description of the work and other requirements, provisions, details and specifications are given in the form of contract and in the specifications and on the contract drawings therein referred to. Copies of the form of contract, specifications, contract drawings, bond and contractor's proposal 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 specifications and contract drawings are to be deemed a part of this Invitation. Copies of the form of contract made or to be made by the City for the purchase of the materials to be supplied by the City to the Contractor may also be inspected and purchased at the said office of the Commission.

Bidders must examine the form of contract and the specifications and contract drawings and 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.

The Contractor must complete the work within five (5) months after the date of the delivery of the contract.

Partial payments will be made to the Contractor monthly as the work proceeds, as provided in the form of 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 a sum equal to ten per centum (10%) of the total estimated amount to be paid to the Contractor under the contract as calculated from the quantities and the prices contained in the Schedule of Prices in the Contractor's Proposal.

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 9th day of July, 1915, 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.

Every proposal must, when submitted, be enclosed in a sealed envelope endorsed "*Proposal for Installation of Tracks*" 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 five thousand dollars ($5,000) payable to the order of the Comptroller of The City of New York 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 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, June 18, 1915.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, By EDWARD E. McCALL, *Chairman.*

TRAVIS H. WHITNEY, *Secretary.* j19,jy9

Invitation to Bidders.

The Public Service Commission for the First District invites proposals for the wrecking of the eight buildings on the premises known as Nos. 161 to 175, inclusive, Flatbush Avenue and No. 606 Atlantic Avenue in the Borough of Brooklyn. A description of the buildings and information in regard to the terms and conditions of the contract are given in the Information for Bidders and form of contract.

Copies of the Information for Bidders and forms of contract and proposal may be obtained upon application to the Secretary of the Commission at his office, No. 154 Nassau Street, Borough of Manhattan.

Sealed bids or proposals will be received by said Secretary at said office until the 9th day of July, 1915, at 12 o'clock noon, at which time and place the proposals will be publicly opened.

Dated, New York, June 15, 1915.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by EDWARD E. McCALL, *Chairman.*

TRAVIS H. WHITNEY, *Secretary.* j30,jy9

DEPARTMENT OF DOCKS AND FERRIES.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Docks at Pier "A," Foot of Battery Place, North River, Manhattan, until 12 o'clock noon, on

MONDAY, JULY 12, 1915,
Borough of Brooklyn.

CONTRACT NO. 1463.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR DREDGING IN MILL BASIN, JAMAICA BAY, BOROUGH OF BROOKLYN.

The time for the completion of the work and the full performance of the contract is on or before the expiration of ninety (90) calendar days.

The amount of security required is $10,000.

The bidder shall state, both in writing and in figures, a price per cubic yard for doing all of the work called for. The contract, if awarded, will be awarded to the bidder whose price per cubic yard is the lowest for doing all of the work, and whose bid is regular in all respects. In case of discrepancy between the written price and that given in figures, the price in writing will be considered as the bid.

Work must be done at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the said Department.

R. A. C. SMITH, Commissioner of Docks.

Dated June 26, 1915. j29,jy12

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

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Docks at Pier "A," Foot of Battery Place, North River, until twelve o'clock noon, on

MONDAY, JULY 12, 1915,

CONTRACT NO. 1460.

FOR FURNISHING AND DELIVERING LUMBER AND PILES.

The time for the completion of the work and the full performance of the contract is on or before the expiration of 90 calendar days.

The amount of security required shall be thirty (30) per cent. of the total amount for which the contract is awarded.

The security deposit to accompany bid shall be in an amount not less than one and one-half (1½) per cent. of the total amount of the bid.

The contract, if awarded, will be awarded by Items to the lowest bidder in each item.

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

Blank forms and further information may be obtained at the office of the said Department.

R. A. C. SMITH, Commissioner of Docks.

Dated June 26, 1915. j29,jy12

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

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Docks at Pier "A," foot of Battery Place, North River, Manhattan, until twelve o'clock noon on

FRIDAY, JULY 2, 1915,

CONTRACT NO. 1467.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR FURNISHING AND DELIVERING COAL.

The time for the completion of the work and the full performance of the contract is on or before the expiration of 21 calendar days.

The amount of security required shall be thirty (30%) per cent. of the total amount for which the contract is awarded.

The security deposit to accompany bid shall be in an amount not less than one and one-half (½) per cent. of the total amount of the bid.

The contract, if awarded, will be awarded to the bidder whose price per ton is the lowest for furnishing all of the coal and whose bid is regular in all respects.

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 said Department.

R. A. C. SMITH, Commissioner of Docks.

Dated June 18, 1915. j21,jy2

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

DEPARTMENT OF STREET CLEANING.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Street Cleaning at Room 1244, Municipal Building, Manhattan, until 12 o'clock noon on

THURSDAY, JULY 1, 1915,
Borough of Manhattan.

FOR FURNISHING AND DELIVERING TRAILER COMPARTMENTS AND RUBBISH BOXES FOR USE IN PROPOSED MODEL DISTRICT NO. 6, BOROUGH OF MANHATTAN.

The time allowed for the delivery of materials and supplies and the performance of the contract is 30 days.

The amount of security required is 30% of the amount of the contract price.

Bids must be submitted in duplicate in separate envelopes.

The bidder will state the price of each item or article contained in the specications or schedules herein contained or hereto annexed, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total for each item, and awards made to the lowest bidder on each item.

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

Blank forms and further information may be obtained at the office of the said Department of Street Cleaning, the Borough of Manhattan.

J. T. FETHERSTON, Commissioner.

Dated June 18, 1915. j21,jy1

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

MUNICIPAL CIVIL SERVICE COMMISSION.

Proposed Amendments to Classifications.

PUBLI C NOTICE IS HEREBY GIVEN OF the following proposed amendments to the Municipal Civil Service Classification:

1. By striking from the Exempt Class, under the heading "Bureau of Buildings in Each Borough," the following:

2 Chief Inspectors in Manhattan;
2 Chief Inspectors in Brooklyn;
Chief Inspector in The Bronx, Richmond and Queens.

2. By striking from the Exempt Class, under the heading "Tenement House Department" the line

3 Chief Inspectors.

A PUBLIC HEARING WILL BE ALLOWED, in accordance with Rule III, at the request of any interested persons, at the Commission's offices in the Municipal Building, Room 1443, on

THURSDAY, JULY 1, 1915,

at 1:30 P. M.

j29,jy1 ROBT. W. BELCHER, Secretary.

Notices of Examinations.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received by the Municipal Civil Service Commission, Municipal Building, Manhattan, New York, from

TUESDAY, JUNE 22, 1915, TO WEDNESDAY, JULY 7, 1915,

for the position of

SCHOOL FARM ATTENDANT (MALE & FEMALE), GR. 1 & 2.

No applications delivered at the office of the Commission, by mail or otherwise, after 4 P. M. WEDNESDAY, JULY 7, 1915, 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 full postage is not prepaid will not be accepted.*

Applicants must be citizens of the United States and residents of the State of New York.

The subjects and weights of examination are: Experience, 2; Duties, 8. A percentage of 70 is required on the subject of duties. A physical qualifying examination will be held.

Candidates must have a practical knowledge of gardening, and should be able to teach children ordinary garden work, such as spading, hoeing, raking, sowing and planting. They should be familiar with common garden vegetables as articles of food. One of the most important duties of an Attendant is to help children to ascertain for themselves the simple processes of nature as exemplified in the growth of plants.

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. Candidates failing to pass the physical examination will not be summoned for the mental examination.

The time and place for holding the physical and mental examinations will be announced later. Minimum age, 18 years. Salary, $3.00 per day when employed.

There are at present three vacancies in the Department of Parks, Brooklyn. Vacancies occur from time to time.

j22,jy7 R. W. BELCHER, Secretary.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received by the Municipal Civil Service Commission, Municipal Building, Manhattan, New York City, from

THURSDAY, JUNE 17, 1915, TO THURSDAY, JULY 1, 1915,

for the position of

HOSPITAL SUPERINTENDENT (NEPONSIT BEACH HOSPITAL), MALE AND FEMALE.

No applications delivered at the office of the Commission, by mail or otherwise, after 4 P. M. THURSDAY, JULY 1, 1915, will be accepted. Applications will be mailed upon request, provided a self-addressed, stamped envelope or proper postage accompanies the request, but the Commission will not guarantee the delivery of the blanks. *Applications, forwarded by mail, upon which postage is not fully prepaid, will not be accepted.*

The requirement that applicants must be residents of the State of New York is waived for this examination. Competitive examination to be open to all citizens of the United States. Persons who accept apointment must thereafter reside in the State of New York. The requirement that every application shall bear the certificates of four reputable citizens whose residences or places of business are within the City of New York is waived for applicants for this examination whose previous occupation or employment has been wholly or in part outside the City of New York, and the said certificates will be accepted from persons resident or engaged in business elsewhere.

The subjects and weights are: Experience, 4; 70% required; Written Test, 3; 70% required; Oral Test, 3; 70% required.

A physical qualifying examination will be given.

Candidates failing to qualify in any part of the examination will not be summoned for the ensuing tests. Candidates will not be assembled for the written examination. Candidates will be assembled for the oral examination.

Candidates must be eligible for registration as nurses of the State of New York and must submit proof of same when filing application; they must have had three years' experience as Supervising Nurse, Assistant Superintendent, or Superintendent of institutions where special attention is given to the care and treatment of crippled children. Knowledge of and experience in heliotherapy is essential.

Applications for this examination must be filed on a special blank, Form C, with insert. Experience blanks will be issued with the applications and must be filed with the Commission at the time of filing applications.

The age limit is 25 to 40 years; salary, $2,100 per annum. There is one vacancy at Neponsit Beach Hospital, Rockaway Beach, N. Y.

j17,jy1 R. W. BELCHER, Secretary.

Amended Notice.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received by the Municipal Civil Service Commission, Municipal Building, Manhattan, from

FRIDAY, JUNE 18, 1915, TO FRIDAY, JULY 2, 1915,

for the position of

GARDENER.

No applications delivered at the office of the Commission, by mail or otherwise, after 4 P. M. FRIDAY, JULY 2, 1915, 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 full postage is not prepaid will not be accepted.*

Applicants must be citizens of the United States and residents of the State of New York.

Candidates should have had practical experience in the various branches of gardening. Each candidate will be tested as to his practical knowledge of pruning, planting, seeding, the naming of plants and the use of gardening implements.

The subjects and weights of the examination are: Experience, 4; Duties, 3; Practical test, 3. A percentage of 70 is required in each subject.

A physical qualifying examination will be given.

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 paper will then be rated. Candidates receiving less than 70% on the Experience will not be summoned for the Physical examination. Candidates failing to pass the Physical examination will not be summoned for the Practical examination. Candidates failing to pass the Practical examination will not be summoned for the Mental examination.

The time and place for holding the physical and mental examinations and the practical test will be announced later.

Vacancies for Gardener occur from time to time in the various city parks. There are a number of vacancies for temporary appointment.

The names of persons who give satisfactory temporary service will be placed upon an eligible list for further temporary employment. This list will be certified for such employment before certification is made from any other list.

The usual salary is $2.00 and $3.00 per day. The minimum age is 21 years.

The requirement of paragraph 12 of Rule VII, that no person who has entered any examination for appointment to a competitive position and failed, or who has withdrawn from an examination, shall be admitted within nine months from the date of such examination to a new examination for the same position, is waived for this examination.

Persons who have filed applications for GARDENER (Temporary Work) since May 4, 1915, need not file applications for this examination.

j18,jy2 R. W. BELCHER, Secretary.

DEPARTMENT OF CORRECTION.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at Room 2400, Municipal Building, Manhattan, until 11 o'clock a. m., on

THURSDAY, JULY 8, 1915,

FURNISHING AND DELIVERING 40,000 YARDS OF BROWN MUSLIN 4-4.

The time for the delivery of the articles materials and supplies and the performance of the contract is by or before July 31, 1915.

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

The bidder will state the price for each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the totals and awards made to the lowest bidder on this item.

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

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

Blank forms and further information may be obtained at the office of the Department of Correction, the Borough of Manhattan, Municipal Building, New York City.

KATHARINE BEMENT DAVIS, Commissioner. j26,jy8

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

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at Room 2400, Municipal Building, Manhattan, until 11 o'clock a. m., on

FRIDAY, JULY 2, 1915,

FURNISHING AND DELIVERING DRY GOODS, TIN AND PAINTS.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before July 31st, 1915.

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

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the totals and awards made to the lowest bidder on each item.

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

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

Blank forms and further information may be obtained at the office of the Department of Correction, the Borough of Manhattan, Municipal Building, New York City.

KATHARINE BEMENT DAVIS, Commissioner. j22,jy2

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

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at Room 2400, Municipal Building, Manhattan, until 11 o'clock a. m., on

FRIDAY, JULY 2, 1915,

FURNISHING AND DELIVERING 600 BARRELS FLOUR NO. 1. 1,800 BARRELS FLOUR NO. 2.

The time for the completion of the contract is by or before July 31st, 1915.

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

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the totals and awards made to the lowest bidder on each item.

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

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

Blank forms and further information may be obtained at the office of the Department of Correction, the Borough of Manhattan, Municipal Building, New York City.

KATHARINE BEMENT DAVIS, Commissioner. j22,jy2

☞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 Westchester 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 April 30, 1915, when it was continued until June 25, 1915, was continued until September 17, 1915, at ten o'clock A. M., in 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. Telephone, 4560 Worth.

Dated, New York, June 25, 1915.

j28,jy1,4,6,8,12,15,19,22,26,29,aug2,5,9,12,16,19,23,26,30,s2,7,9

Notices of Public Hearings.

PUBLIC IMPROVEMENT MATTERS.

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 25, 1915, *the Board continued until Thursday, July* 1, 1915, *the hearing in the matter of* changing the map or plan of The City of New York by widening Dyckman Street on the southerly side from a point about 360 feet westerly from the westerly line of D Street to the pier and bulkhead line of the Hudson River, in the Borough of Manhattan, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the Acting Secretary of the Board of Estimate and Apportionment, and dated March 11, 1915.

The hearing will be held in the City Hall, Borough of Manhattan, City of New York, on Thursday, July 1, 1915, at 10 o'clock a. m.

Dated June 28, 1915.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j28,jy1

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 25th, 1915, the Board continued until July 1st, 1915, the *hearing on the proposed reapportionment of the cost and expense of the proceeding for acquiring title to the property required for the widening of Flatbush Avenue Extension, between Concord Street and Nassau Street, Borough of Brooklyn.*

The *hearing will be held in the City Hall,* Borough of Manhattan, City of New York, *on Thursday, July 1st,* 1915, *at 10 o'clock a. m.*

The following is the proposed reapportionment of cost and expense:

District No. 1 to bear 12½% of the entire cost and expense.

Comprises property designated on the maps of the Department of Taxes and Assessments for the year 1914 as Lots Nos. 9, 47 and 48, in Block No. 107; Lots Nos. 1, 2, 3, 5, 6, 7 and 9 in Block No. 108; and Lots Nos. 12, 13, 14, 15, 16, 17 and 18 in Block No. 118.

District No. 2 to bear 10% of the entire cost and expense.

Comprises the following area: Beginning at a point on the southerly line of Concord Street distant 25 feet easterly from the easterly line of Bridge Street, the said distance being measured at right angles to Bridge Street, and running thence southwardly and parallel with Bridge Street to a point distant 25 feet easterly from the easterly line of Flatbush Avenue Extension, said distance being measured at right angles to Flatbush Avenue Extension; thence southwardly and always distant 25 feet easterly from and parallel with the easterly line of Flatbush Avenue Extension to a point distant 100 feet northerly from the northerly side of DeKalb Avenue, the said distance being measured at right angles to DeKalb Avenue; thence westwardly and always distant 100 feet from and parallel with the northerly side of DeKalb Avenue to a point 25 feet westerly from the westerly side of Flatbush Avenue Extension, said distance being measured at right angles to Flatbush Avenue Extension; thence northwardly and always distant 25 feet westerly from and parallel with the westerly line of Flatbush Avenue Extension to the intersection with the southerly line of Concord Street; thence eastwardly along the southerly line of Concord Street to the point or place of beginning, excluding therefrom such land as is included in District No. 1.

District No. 3 to bear 17½% of the entire cost and expense.

Comprises the following area: Beginning at a point 25 feet easterly from the easterly side of Flatbush Avenue Extension, which point is also 100 feet northerly from the northerly side of DeKalb Avenue, and running thence southwardly and always distant 25 feet easterly from and parallel with the easterly line of Flatbush Avenue Extension and Flatbush Avenue to the intersection with the prolongation of a line distant 100 feet southerly from and parallel with the southerly line of Fourth Avenue, said distance being measured at right angles to Fourth Avenue; thence westwardly along the said line parallel with Fourth Avenue, and along the prolongation of the said line to a point distant 25 feet westerly from the westerly line of Flatbush Avenue, the said distance being measured at right angles to Flatbush Avenue; thence northwardly and always distant 25 feet westerly from and parallel with the westerly line of Flatbush Avenue and Flatbush Avenue Extension to a point 100 feet northerly from the northerly side of DeKalb Avenue, said distance being measured at right angles to DeKalb Avenue; thence eastwardly along a line distant 100 feet from and parallel with the northerly side of DeKalb Avenue to the point or place of beginning.

District No. 4 to bear 10% of the entire cost and expense.

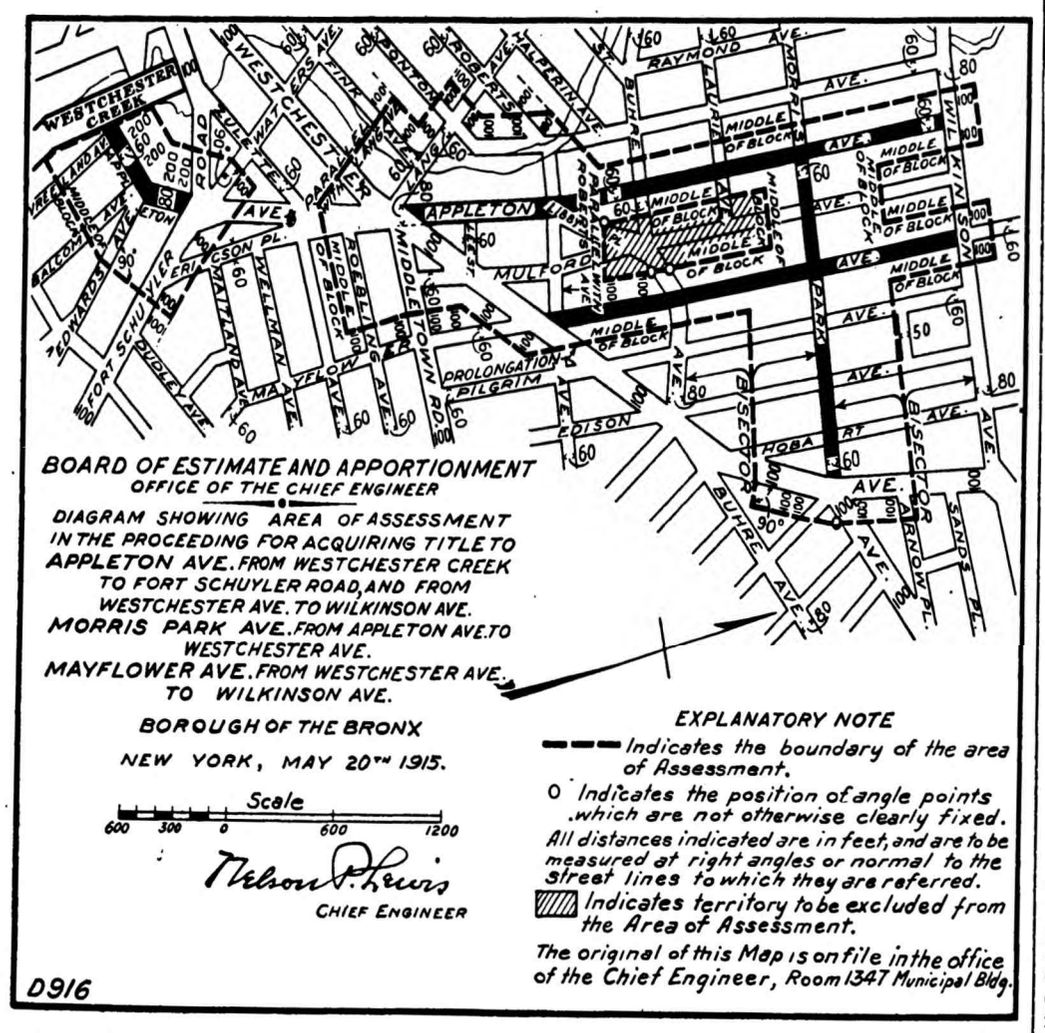
Comprises the following area: Beginning at a point in the southerly line of Concord Street distant 150 feet easterly from the easterly line of Bridge Street, the said distance being measured at right angles to Bridge street; and running thence southwardly and parallel with Bridge Street to a point distant 150 feet easterly from the easterly line of Flatbush Avenue Extension, the said distance being measured at right angles to Flatbush Avenue Extension; thence southwardly and always distant 150 feet easterly from and parallel with the easterly lines of Flatbush Avenue Extension and Flatbush Avenue to the intersection with a line distant 100 feet southerly from and parallel with the southerly line of Hanson Place, the said distance being measured at right angles to Hanson Place; thence westwardly along the said line parallel with Hanson Place to the intersection with the prolongation of a line distant 100 feet southerly from and parallel with the southerly line of 4th Avenue, the said distance being measured at right angles to 4th Avenue; thence westwardly along the said line parallel with 4th Avenue and along the prolongation of the said line to a point distant 150 feet westerly from the westerly line of Flatbush Avenue, the said distance being measured at right angles to Flatbush Avenue; thence northwardly and always distant 150 feet westerly from and parallel with the westerly lines of Flatbush Avenue and Flatbush Avenue Extension to the intersection with the southerly line of Concord Street; thence eastwardly along the southerly line of Concord Street to the point or place of beginning, excluding therefrom such land as is included in Districts Nos. 1, 2 and 3.

Dated June 28, 1915.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j28,jy1

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 25, 1915, *the Board continued until Thursday, July* 1, 1915, the hearing on the proposed area of assessment in the matter of acquiring title to Appleton Avenue from Westchester Creek to Fort Schuyler Road, and from Westchester Avenue to Wilkinson Avenue; to Morris Park Avenue from Appleton Avenue to Westchester Avenue; and to Mayflower Avenue from Westchester Avenue to Wilkinson Avenue, Borough of The Bronx.

The proposed area of assessment is described on the following diagram:



Dated May 28, 1915.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j28,jy1

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 25, 1915, *the Board continued until Thursday, July* 1, 1915, *the hearing in the matter of* changing the map or plan of The City of New York by widening Howard Avenue between Pitkin Avenue and Eastern Parkway, and by changing the grades of Howard Avenue and of the intersecting streets affected thereby in the Borough of Brooklyn, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the Commissioner of Public Works of the Borough, and dated December 29, 1914.

The hearing will be held in the City Hall, Borough of Manhattan, City of New York, on Thursday, July 1, 1915, at 10 o'clock a. m.

Dated May 28, 1915.

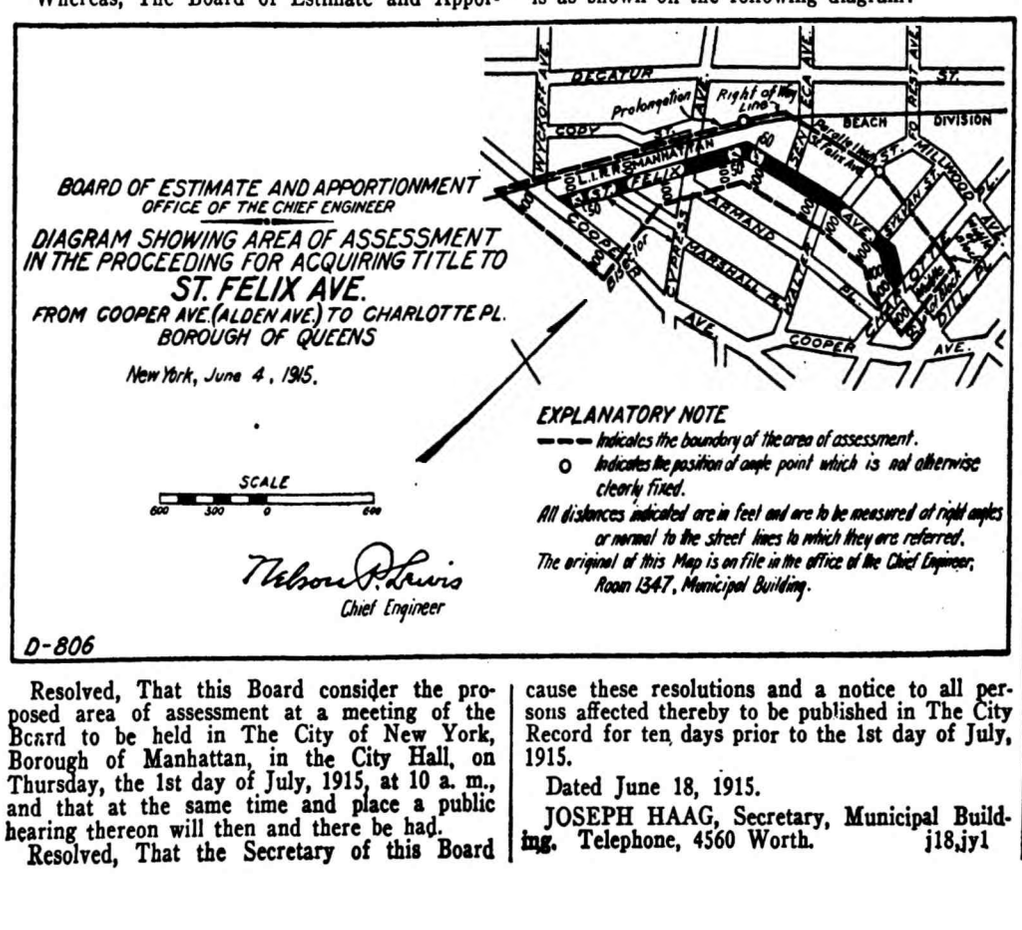
JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j28,jy1

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on June 11, 1915, the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the real property required for the opening and extending of St. Felix Avenue from Cooper Avenue to Charlotte Place, in the Borough of Queens, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the real property required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that the proposed area of assessment for benefit in this proceeding is as shown on the following diagram:



Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on Thursday, the 1st day of July, 1915, at 10 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 1st day of July, 1915.

Dated June 18, 1915.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. j18,jy1

COLLEGE OF THE CITY OF NEW YORK.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Board of Trustees or the Curator of the College of The City of New York at Room 114, Main Building, 139th st. and Convent ave., Borough of Manhattan, until 2 o'clock p. m., on

TUESDAY, JULY 6, 1915,

FOR FURNISHING AND DELIVERING TO THE COLLEGE OF THE CITY OF NEW YORK 4,800 GROSS TONS, MORE OR LESS, OF NO. 3 BUCKWHEAT COAL, AND 1,600 GROSS TONS, MORE OR LESS, OF SEMI-BITUMINOUS "RUN OF MINE" COAL, AT AMSTERDAM AVE. AND 139TH STREET, NEW YORK CITY.

The time allowed for fully completing the contract is 360 calendar days.

The amount of security required is thirty (30) per cent. of the total amount for which the contract is awarded.

The bidders will state a price per ton for each kind of coal. The contract will be awarded, if awarded, to the lowest aggregate bidder on both kinds of coal.

A copy of the contract and specifications, bid sheet and envelope in which to enclose the bid may be obtained upon application therefor at the office of the Curator of the College, Room 114, Main Building, 139th st. and Convent ave., Borough of Manhattan.

A duplicate copy of the bid must be submitted at the same time for the Finance Department.

CHARLES E. LYDECKER, Chairman of the Board of Trustees; JAMES W. HYDE, Secretary of the Board of Trustees; BERNARD M. BARUCH, FREDERICK P. BELLAMY, WM. HENRY CORBITT, LEE KOHNS, WILLIAM F. McCOMBS, MOSES J. STROOCK, CHARLES H. TUTTLE, THOMAS W. CHURCHILL, Board of Trustees.

R. V. Davis, Curator.

Dated June 23, 1915. j23,jy6

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

SEALED BIDS OR ESTIMATES WILL BE received by the Board of Trustees or the Curator of the College of The City of New York at Room No. 114, Main Building, 139th St. and Convent Ave., Borough of Manhattan, until 2 o'clock p. m., on

TUESDAY, JULY 6, 1915,

FOR FURNISHING COMPLETE ALL LABOR, MATERIAL, SCAFFOLDING, ETC., FOR GENERAL REPAIRS AND ALTERATIONS TO THE RESIDENCE OF THE PRESIDENT OF THE COLLEGE OF THE CITY OF NEW YORK, NO. 280 CONVENT AVENUE, N. W. COR. 141ST STREET.

The time allowed for doing and completing the work is sixty (60) consecutive working days.

The amount of security required will be twenty-five (25) per cent. of the amount of the bid or estimate.

Bidders shall state one aggregate price for the whole work described and specified, as the contract is entire and for a complete job.

Blank forms of the contract and specifications and bid sheet may be obtained at the office of the Curator, Room 114, Main Building.

CHARLES E. LYDECKER, Chairman; JAMES W. HYDE, Secretary; BERNARD M. BARUCH, FREDERICK P. BELLAMY, THOMAS W. CHURCHILL, WM. HENRY CORBITT, LEE KOHNS, WILLIAM F. McCOMBS, MOSES J. STROOCK, CHARLES H. TUTTLE, Board of Trustees.

R. V. Davis, Curator.

June 23rd, 1915. j23,jy6

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

COMMISSIONERS OF THE SINKING FUND.

Public Notice.

NOTICE IS HEREBY GIVEN THAT THE Commissioners of the Sinking Fund, in accordance with a resolution adopted June 25, 1915, and pursuant to the provisions of Section 372 of the Laws of 1907, will hold a public hearing at 11 o'clock in the forenoon on Wednesday, July 14, 1915, in Room 16, City Hall, Borough of Manhattan, relative to proposed amendment to the new plan for improvement of the waterfront and harbor of The City of New York, in the vicinity of 35th Street, Gowanus Bay, Borough of Brooklyn, adopted by the Commissioner of Docks on June 5, 1908, February 17, 1909, and March 1, 1913, and approved by the Commissioners of the Sinking Fund on June 30, 1908, March 16, 1909, and April 2, 1913.

—adopted by the Commissioner of Docks in accordance with law June 15, 1915, and transmitted to the Commissioners of the Sinking Fund for approval.

The proposed amendment and alterations to the new plan consists in the widening of the 35th Street Pier 25 feet on the south side of said pier from 150 feet to 175 feet, and also in narrowing the slip between 35th Street pier and 36th Street Pier from 215 feet to 190 feet.

Dated: June 25, 1915.

JOHN PURROY MITCHEL, Mayor, and Chairman, Commissioners of the Sinking Fund. j28,jy3

POLICE DEPARTMENT.

Owners Wanted for Unclaimed Property.

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.

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 PARKS.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the office of the Department of Parks, Municipal Building, Borough of Manhattan, until 3 o'clock p. m., on

THURSDAY, JULY 1, 1915,
Borough of Manhattan.

For repaving where directed the Cement Walks of Riverside Drive Extension and the Small Parks south of 59th Street.

Estimated quantity, 10,000 sq. ft.

The time allowed for the completion of the contract is Thirty (30) working days.

The amount of security required is Nine Hundred dollars ($900).

The bids will be compared and the contract awarded at price per sq. ft.

Blank forms and other information may be obtained at the office of the Department of Parks, Municipal Bldg. (10th floor), Centre and Chambers Sts., Bor. of Manhattan.

CABOT WARD, President; THOS. W. WHITTLE, RAYMOND V. INGERSOLL, JOHN E. WEIER, Park Commissioners. j19,jy1

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

SEALED BIDS WILL BE RECEIVED BY the Park Board at Room 1230, Municipal Building, Borough of Manhattan, until three o'clock P. M. on

THURSDAY, JULY 8, 1915,
Boroughs of Manhattan and Richmond, The Bronx and Brooklyn.

FOR FURNISHING AND DELIVERING FLOWERING BULBS IN PARKS IN THE ABOVE NAMED BOROUGHS.

The time for the performance of the contract is until December 15, 1915.

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

No bid will be considered unless it is accompanied by a deposit, 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 M. 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 and awards, if made, made to the lowest bidder on the total for the class, as stated in the specifications.

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

Blank forms and further information may be obtained at Room 1226, Municipal Building, Borough of Manhattan.

CABOT WARD, President; THOMAS W. WHITTLE, RAYMOND V. INGERSOLL, JOHN E. WEIER, Park Commissioners. j8,jy8

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

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

WEDNESDAY, JULY 7, 1915,
CONTRACT 140.

FOR FURNISHING, DELIVERING AND ERECTING AT SHAFTS 11 AND 21 OF THE CITY TUNNEL OF THE CATSKILL AQUEDUCT IN THE CITY OF NEW YORK DRAINAGE EQUIPMENT FOR UNWATERING THE TUNNEL AND ITS SHAFTS.

A statement of the work required 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 twenty thousand dollars ($20,000) 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 one thousand dollars ($1,000).

Time allowed for the completion of the work is 6 months from the service of notice by the Board to begin work.

Pamphlets containing information for bidders, forms of proposal and contract, specifications, contract drawings, 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 ten dollars ($10) in cash or its equivalent for each pamphlet. This deposit will be refunded upon the return of the pamphlets 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 Cobb, Secretary. j17,jy7

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.

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

WEDNESDAY, JULY 7, 1915,
CONTRACT 149.

FOR FURNISHING, DELIVERING AND INSTALLING RACKS, SHUTTERS, SCREENS, LIFTERS AND OTHER APPARATUS IN GATE-CHAMBERS AT ASHOKAN, KENSICO AND HILL VIEW RESERVOIRS IN THE TOWN OF OLIVE, ULSTER COUNTY, AND TOWN OF MT. PLEASANT AND CITY OF YONKERS, WESTCHESTER COUNTY, NEW YORK.

An approximate statement of the quantities of the various materials 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 eighteen thousand dollars ($18,000) 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 nine hundred dollars ($900).

Time allowed for the completion of the work is 9 months from the service of notice by the Board to begin work.

Pamphlets containing information for bidders, forms of proposal and contract, specifications, contract drawings, 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 ten dollars ($10) in cash or its equivalent for each pamphlet. This deposit will

be refunded upon the return of the pamphlets 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 COBB, Secretary. j17,jy7

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.

FIRE DEPARTMENT.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, eleventh floor, Municipal Building, Manhattan, until 10.30 o'clock A. M., on

TUESDAY, JULY 13, 1915,

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED AND COMPLETING REPAIRS AND ALTERATIONS TO THE QUARTERS OF THE FOLLOWING COMPANIES:

Engine Co. 14, Manhattan; Engine Co. 34, Manhattan; Engine Co. 74 and Hook and Ladder Co. 25, Manhattan; Engine Co. 59, Manhattan; Engine Co. 287, Queens; Engine Co. 237, Brooklyn; Engine Co. 248, Brooklyn; Hook and Ladder Co. 125, Queens; Engine Co. 270, Queens; Engine Co. 271 and Hook and Ladder Co. 124, Brooklyn; Hook and Ladder Co. 115 and Engine Co. 258, Queens; Hook and Ladder Co. 104, Brooklyn; Engine Co. 42, Bronx; Engine Co. 294 and Hook and Ladder Co. 143, Queens.

The time for the completion of the work and full performance of the contract is forty (40) days.

The amount of security required is fifty per cent. (50%) of the amount of the bid.

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

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Fire Department, Eleventh Floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner. jy1,13

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

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, eleventh floor, Municipal Building, Manhattan, until 10.30 o'clock A. M., on

TUESDAY, JULY 13, 1915,
Borough of Brooklyn.

NO. 2—FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR PLUMBING AND HEATING WORK AT QUARTERS OF ENGINE COMPANIES 201, 204, 207 AND 209 AND HOOK AND LADDER COMPANY 105.

The time allowed for the completion of the work and the full performance of the contract is Fifty (50) working days.

The amount of security required is Fifty (50) per cent. of the amount of the bid or estimate.

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

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Fire Department, eleventh floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner. j30,jy13

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

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, eleventh floor, Municipal Building, Manhattan, until 10.30 o'clock A. M., on

TUESDAY, JULY 13, 1915,
Borough of Brooklyn.

NO. 1—FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REPAIRS AND ALTERATIONS TO THE QUARTERS OF ENGINE COMPANIES 201, 204, 207 AND 209 AND HOOK AND LADDER COMPANY 105.

The time for the completion of the work and the full performance of the contract is Fifty (50) working days.

The amount of security required is Fifty per cent. of the amount of the bid or estimate. Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Fire Department, eleventh floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner. j30,jy13

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

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Department at Room 1230, Municipal Building, Borough of Manhattan, City of New York, until 12 o'clock noon on

MONDAY, JULY 12, 1915,

FOR FURNISHING AND DELIVERING AUTOMOBILE CHAINS, TIRES AND ACCESSORIES.

The time for the performance of the contract is on or before December 31, 1915.

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

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

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

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

Blank forms and further information may be obtained at Room 1226, Municipal Building, Borough of Manhattan.

FIRE DEPARTMENT, ROBERT ADAMSON, Commissioner. j29,jy12

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

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, eleventh floor, Municipal Building, Manhattan, until 10.30 o'clock A. M., on

WEDNESDAY, JULY 7, 1915,

FOR FURNISHING AND DELIVERING TWENTY-FOUR (24) MOTOR-DRIVEN HOSE WAGONS UNDER SEPARATE CONTRACTS AS FOLLOWS:

Item No. 1—Eight (8) Motor-Driven Hose Wagons.

Item No. 2—Eight (8) Motor-Driven Hose Wagons.

Item No. 3—Eight (8) Motor-Driven Hose Wagons.

The time for the delivery of the materials and supplies and the performance of each contract is one hundred and twenty (120) days.

The amount of security required is Fifty per cent. (50%) of the amount of the bid or estimate.

Bids may be made for any one or all three items, and the lowest bid on each item will be accepted. A bidder may bid on a single item (eight wagons), on two items (sixteen wagons) or on all three items (twenty-four wagons).

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per wagon, or other unit of measure, by which the bids will be tested. The extension must be made and footed up, as the bids will be read from the total for each item and awards made to the lowest bidder on each item *at a lump or aggregate sum.*

Bids for supplies must be submitted in duplicate.

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

Blank forms and further information may be obtained at the office of the Fire Department, eleventh floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner. j25,jy7

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

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, eleventh floor, Municipal Building, Manhattan, until 10.30 o'clock A. M., on

WEDNESDAY, JULY 7, 1915,

NO. 1—FOR FURNISHING AND DELIVERING TWELVE (12) FORTY CHEMICAL TANKS AND TWELVE (12) CHEMICAL HOSE REELS.

The time for the delivery of the articles, materials and supplies and the performance of the contract is Seventy-five (75) days.

The amount of security required is *Fifty per cent.* (50%) *of the amount of the bid or estimate.*

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extension must be made and footed up, as the bids will be read from the total. *The bids will be compared and the contract awarded at a lump or aggregate sum.*

Bids for supplies must be submitted in duplicate.

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

Blank forms and further information may be obtained at the office of the Fire Department, eleventh floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner. j25,jy7

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

BOROUGH OF RICHMOND.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Richmond at Borough Hall, St. George, New Brighton, S. I., until 12 o'clock M., on

TUESDAY, JULY 13, 1915,
Borough of Richmond.

NO. 1. FOR CONSTRUCTING A TEMPORARY SANITARY SEWER, WITH THE NECESSARY APPURTENANCES, IN KISSEL AVENUE FROM FOREST AVENUE TO BRIGHTON BOULEVARD; IN BRIGHTON BOULEVARD AND ITS PROLONGATION, FROM KISSEL AVENUE TO KILL VAN KULL, AND IN THE ADJOINING SECTIONS OF CASTLETON AVENUE AND HENDERSON AVENUE, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantity and quality of the material and the nature and extent, as near as possible, of the work required is as follows:

340 linear feet of pipe sewer of 20 inches interior diameter of class "B" cast iron pipe, furnished, laid, calked and secured, complete, as per section on plan of the work.

1,112 linear feet of vitrified pipe sewer of 20 inches interior diameter, complete, as per section on plan of the work.

1,227 linear feet of vitrified pipe sewer of 15 inches interior diameter, complete, as per section on plan of the work.

1,734 linear feet of vitrified pipe sewer of 12 inches interior diameter, complete, as per section on plan of the work.

1,437 linear feet of vitrified pipe sewer of 10 inches interior diameter, complete, as per section on plan of the work.

20 linear feet of vitrified pipe sewer of 8 inches interior diameter, complete, as per section on plan of the work.

40 linear feet of vitrified pipe sewer of 6 inches interior diameter, complete, as per section on plan of the work.

36 linear feet of pipe culvert of 14 inches interior diameter of class "A" C. I. pipe, complete, as shown on plan of the work.

152 linear feet of pipe drain of 6 inches interior diameter of class "A" C. I. pipe, complete, as shown on plan of the work.

30 linear feet of vitrified pipe culvert of 15 inches interior diameter, complete, as shown on plan of the work.

20 linear feet of vitrified pipe culvert of 6 inches interior diameter, complete, as shown on plan of the work.

140 linear feet of vitrified pipe culvert of 4 inches interior diameter, complete, as shown on plan of the work.

74 vitrified pipe house connection spurs of 6 inches interior diameter on 20-inch pipe sewer, furnished and placed.

110 vitrified pipe house connection spurs of 6 inches interior diameter on 15-inch pipe sewer, furnished and placed.

162 vitrified pipe house connection spurs of 6 inches interior diameter on 12-inch pipe sewer, furnished and placed.

140 vitrified pipe house connection spurs of 6 inches interior diameter on 10-inch pipe sewer, furnished and placed.

22 standard manholes, complete, as per section on plan of the work.

6 shallow manholes, complete, as per section on plan of the work.

2 cubic yards of additional brick masonry.

170 cubic yards of additional concrete, class "D," for cradle, etc., furnished and placed.

90 cubic yards of additional concrete, class "C," for cradle, etc., furnished and placed.

42 cubic yards of additional concrete for bridge abutment, in place, as shown on plan of the work.

300 cubic yards of additional excavation.

810 cubic yards of filling over sewer above present surface grade.

15,000 B. M. feet of yellow pine timber for caps, foundation timber, guard rails, bridge beams, etc., furnished, placed and secured, including fastenings.

14,000 B. M. feet of spruce planking for foundation timber and bridge deck, etc., furnished, placed and secured, including fastenings.

24,000 B. M. feet of sheeting, retained.

7,600 linear feet of piles, furnished, driven and cut.

2,400 cubic feet of rock filled timber crib, in place and secured, as per section on plan of the work.

140 cubic yards of additional rip rap, in place, for timber crib foundations, etc.

6,700 Lbs. of corrugated or deformed steel bars, furnished and placed, as per section on plan of the work.

200 square feet of reinforcing metal, equal and similar to expanded metal No. 10, furnished and placed.

8 square feet of wrought iron grating, furnished and placed, as per section on plan of the work.

20 cubic yards of broken stone ballast, furnished and placed.

20 square yards of granite block pavement on concrete foundation, with cement joints, restored.

9 square yards of vitrified brick pavement on concrete foundation, restored.

90 square yards of tar macadam pavement, restored.

75 square yards of water bond macadam pavement, restored.

115 square feet of bluestone sidewalk and crosswalks, relaid.

20 linear feet of old curbstone, reset.

4 cubic yards of cement rubble masonry.

The time for the completion of the work and the full performance of the contract is one hundred and eighty (180) days.

The amount of security required is Nine Thousand Five Hundred Dollars ($9,500.00).

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

Bidders are requested to make their bids or estimates upon the blank form prepared by the President, a copy of which, with the proper envelope in which to enclose the bid, can be obtained upon application therefor at the office of the Commissioner of Public Works. The plans and the contract, including the specifications, in the form approved by the Corporation Counsel, may be seen and other information obtained at the office of the Commissioner of Public Works, Borough Hall, St. George, S. I.

CHARLES J. McCORMACK, President.

New York, June 28, 1915. jy1,13

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

DEPARTMENT OF FINANCE.

Corporation Sales of Real Estate.

CORPORATION SALES OF REAL ESTATE.

William P. Rae Company, Auctioneer.

PUBLIC NOTICE IS HEREBY GIVEN THAT the Commissioners of the Sinking Fund of The City of New York, by virtue of the powers vested in them by law, will offer for sale at public auction on

FRIDAY, JULY 16, 1915,

at 12 o'clock M., at the Brooklyn Real Estate Exchange, No. 189 Montague Street, Borough of Brooklyn, all that certain piece or parcel of land belonging to The City of New York, and situate, lying and being in the Borough of Queens, City of New York, bounded and described as follows:

Beginning at the corner formed by the intersection of the southerly line of Nott Avenue with the westerly line of West Avenue; running thence southerly along the westerly line of West Avenue 25 feet; running thence westerly and parallel with the southerly line of Nott Avenue 100 feet; running thence northerly and parallel with the westerly line of West Avenue 25 feet to the southerly line of Nott Avenue; running thence easterly and along said southerly line of Nott Avenue 100 feet to the point or place of beginning.

The minimum or upset price at which said property shall be sold is hereby fixed at Forty-seven Hundred and Fifty Dollars ($4,750). The sale to be made upon the following

TERMS AND CONDITIONS:

The highest bidder will be required to pay ten per cent. (10%) of the amount of his bid, together with the auctioneer's fees, at the time of the sale, and ninety per cent. (90%) upon the delivery of the deed, which shall be within sixty (60) days from the date of the sale.

The deed so delivered shall be in form of a bargain and sale deed, without covenants.

The Comptroller may, at his option, resell the property if the successful bidder shall fail to comply with the terms of the sale, and the person so failing to comply therewith will be held liable for any deficiency which may result from such resale.

The right is reserved to reject any and all bids.

Maps of said real estate may be seen on application at the Comptroller's Office (Division of Real Estate), Room 733, Municipal Building, Borough of Manhattan.

By order of the Commissioners of the Sinking Fund, under resolution adopted at meeting of the Board held June 16, 1915.

E. D. FISHER, Deputy and Acting Comptroller.

Department of Finance, Comptroller's Office, June 26th, 1915. j29,jy16

CORPORATION SALE OF REAL ESTATE.

William P. Rae Company, Auctioneer.

PUBLIC NOTICE IS HEREBY GIVEN THAT the Commissioners of the Sinking Fund of The City of New York, by virtue of the powers vested in them by law, will offer for sale at public auction on

FRIDAY, JULY 16, 1915,

at 12 o'clock M., at the Brooklyn Real Estate Exchange, No. 189 Montague Street, Borough of Brooklyn, the following described property:

All that certain piece or parcel of land situated in the Town of Hempstead, County of Nassau, State of New York, known as Parcel No. 1 on Map RE-B-37, filed in tube C-20, on file in the office of the Commissioner of Water Supply, Gas and Electricity, more fully described as follows:

Beginning at a point on the westerly line of Baldwins Pond, said point being located 50 feet northerly at right angles from the northerly property line of the Long Island Railroad 2,401.46 feet measured easterly along said northerly property line of said Long Island Railroad from the intersection of said property line with the easterly line of Christian Hook Road; thence westerly, parallel to the northerly property line of the Long Island Railroad and distant 50 feet northerly measured at right angles therefrom north 79 degrees 30 minutes 30 seconds west 1,110 feet to a point; thence north 10 degrees 29 minutes 30 seconds east 200 feet to a point; thence westerly parallel to and distant 250 feet northerly measured at right angles from said northerly line of said Long Island Railroad north 79 degrees 30 minutes 30 seconds west 895 feet to a point; thence north 10 degrees 29 minutes 30 seconds east 325.17 feet to a point; thence north 59 degrees 21 minutes west 244.33 feet to a point on the easterly side of Christian Hook Road; running thence northerly along said easterly line of said road north 30 degrees 39 minutes east 748.96 feet to a point formed by the intersection of said easterly line with the southerly line of Seaman Avenue; thence easterly along said southerly line of Seaman Avenue the following two courses and distances: south 80 degrees 12 minutes east 1,302.3 feet; north 85 degrees 28 minutes east 841.2 feet to a point in the centre of brook running into Baldwins Pond; thence southerly along the centre line of said brook as it winds and turns to a point at the head of Baldwins Pond, said point being located 57.5 feet easterly from the westerly line of Baldwin's Pond measured (parallel to the northerly line of Long Island Railroad) from the westerly side of Baldwins Pond; running thence southerly along the westerly side of said Baldwins Pond to the point or place of beginning, containing within said bounds 66.739 acres more or less.

The minimum or upset price at which said property shall be sold is hereby fixed at Thirty-three Thousand Dollars ($33,000), plus the cost of advertising the sale. The sale to be made upon the following

TERMS AND CONDITIONS:

The highest bidder will be required to pay ten per cent. (10%) of the amount of the bid, together with the auctioneer's fees, at the time of the sale, and ninety per cent. (90%) upon the delivery of the deed, which shall be within sixty days from the date of the sale.

The deed so delivered shall be in form of a bargain and sale deed without covenants.

The Comptroller may, at his option, resell the property if the successful bidder shall fail to comply with the terms of the sale, and the person so failing to comply therewith will be held liable for any deficiency which may result from such resale.

The right is reserved to reject any and all bids.

That the City reserves the right to lower the natural ground water level under said land for the operation of the existing station or for any pumping station that may be constructed in the future.

That the purchaser of the land shall remove at his own expense the reservoir embankment which is included within the land retained by the City, to an elevation of not higher than five feet above the outer toe of slope of said embankment.

That the purchaser shall remove at his own expenes the reservoir embankment on the southerly side of the parcel of land, and located parallel to the Long Island Railroad, to an elevation not higher than five feet above the elevation of the southerly toe of slope of said embankment.

No wells shall be sunk or pumping station erected for the delivery of water for public use.

Maps of said real estate may be seen on application at the Comptroller's Office (Division of Real Estate), Room 733, Municipal Building, Borough of Manhattan.

By order of the Commissioners of the Sinking Fund, under resolution adopted at meeting of the Board held June 23, 1915.

E. D. FISHER, Deputy and Acting Comptroller.

Department of Finance, Comptroller's Office, June 26th, 1915. j29,jy16

Corporation Sales of Buildings.

CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE BY SEALED BIDS.

AT THE REQUEST OF THE BOARD OF Education, 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 standing upon property owned by The City of New York, acquired by it for school purposes in the

Borough of Manhattan.

BEING the buildings, parts of buildings, etc., on the plot of ground on the northwest corner of Lexington Avenue and East 22nd Street, known as Nos. 10, 12, 14 and 16 Lexington Avenue, in the Borough of Manhattan, which are more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room 368, Municipal Building, Borough of Manhattan.

PURSUANT to a resolution adopted by the Commissioners of the Sinking Fund, at a meeting held June 23, 1915, the sale by sealed bids of the above described buildings and appurtenances thereto will be held by direction of the Comptroller on

THURSDAY, JULY 15, 1915,

at 11 A. M., in lots and parcels, and in manner and form as follows:

PARCEL NO. 1: Three-story and basement brick house No. 10 Lexington Avenue, three-story and basement brick house No. 12 Lexington Avenue, four-story and basement brick house No. 14 Lexington Avenue, and four-story and basement brick house No. 16 Lexington Avenue.

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 15th day of July, 1915, and then publicly opened for the sale for removal of the above-described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

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

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

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

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

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

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

All bids must be inclosed in properly sealed envelopes, marked "Proposals to be opened July 15, 1915," 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, June 24, 1915. j28,jy15

CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE BY SEALED BIDS.

AT THE REQUEST OF THE PRESIDENT of the Borough of The Bronx, public notice is hereby given that the Commissioners of the Sinking Fund, by virtue of the powers vested in

them by law, will offer for sale by sealed bids certain encroachments standing upon property owned by The City of New York, acquired by it for street opening purposes in the

Borough of The Bronx.

BEING the buildings, parts of buildings, etc., standing within the lines of East 214th Street, from White Plains Road to Barnes Avenue, in the Borough of The Bronx, which are more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room 368, Municipal Building, Borough of Manhattan.

PURSUANT to a resolution of the Commissioners of the Sinking Fund adopted at a meeting held June 16, 1915, the sale by sealed bids at the upset or minimum prices named in the description of each parcel of the above described buildings and appurtenances thereto will be held by direction of the Comptroller on

FRIDAY, JULY 9, 1915,

at 11 A. M., in lots and parcels, and in manner and form, and at upset prices as follows:

PARCEL NO. 53: Part of three-story frame building on the northeast corner of East 214th Street and Holland Avenue. Cut 3.4 feet on front by 4 feet on rear. Upset price, $25.00.

PARCEL NO. 62: Part of three-story frame building on the northwest corner of East 214th Street and Holland Avenue. Cut 2.6 feet on front by 2.4 feet on rear. Upset price, $25.00.

The purchasers of the above parcels will be required to fill in the cellar excavations with clean earth to the natural ground level.

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 9th day of July, 1915, and then publicly opened for the sale for removal of the above-described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

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

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

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

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

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

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

All bids must be inclosed in properly sealed envelopes, marked "Proposals to be opened July 9, 1915," 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, June 17, 1915. j22,jy9

CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE BY SEALED BIDS.

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

Borough of Queens.

BEING the buildings, parts of building, etc., standing within the lines of Perry Avenue from the westerly line of Broad Street to Mueller Street, in the Borough of Queens, which are more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room 368, Municipal Building, Borough of Manhattan.

PURSUANT to a resolution of the Commissioners of the Sinking Fund adopted at a meeting held June 16, 1915, the sale by sealed bids at the upset or minimum prices named in the description of each parcel of the above described buildings and appurtenances thereto will be held by direction of the Comptroller on

THURSDAY, JULY 8, 1915,

at 11 A. M., in lots and parcels, and in manner and form, and at upset prices as follows:

PARCEL NOS. 25 and 28: Part of two-story frame, brick basement house 74 Broad Street, Maspeth. Cut 9 feet on front by 22 feet on rear. Upset price, $50.00.

PARCEL NOS. 26-27: Two-story and basement frame house No. 76 Broad Street, Maspeth, and barn in rear. Upset price, $100.00.

PARCEL NO. 52: Part of two-story frame house on the northeast corner of Perry Avenue and Marabel Avenue (Washington Place). Cut 0.57 feet on west side by 0.43 feet on east side. Upset price, $5.00.

PARCEL NO. 82: Part of two-story frame building on the northwest corner of Perry Avenue and Clermont Avenue. Cut 0.51 feet on west side by 0.53 feet on east side. Upset price, $5.00.

PARCEL NO. 227: Part of two-story frame Hook & Ladder building. Cut 2.3 feet on east and west sides. Upset price, $5.00.

PARCEL NO. 228: Part of porch, steps and fence east of and adjoining Parcel No. 227. Upset price, $5.00.

Sealed bids (blank form 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 8th day of July, 1915, 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 be inclosed in properly sealed envelopes, marked "Proposals to be opened July 8, 1915," 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, June 17, 1915. j22,jy9

Interest on City Bonds and Stock.

THE INTEREST DUE JULY 1, 1915, ON REGistered bonds and stock of The City of New York, and of former corporations now included therein, will be paid on that day by the Comptroller at his office (Room 853) in the Municipal Building at Chambers and Centre Streets, in the Borough of Manhattan.

The interest due July 1, 1915, on the coupon bonds of the late City of Brooklyn will be paid on that day by the Nassau National Bank of Brooklyn, 26 Court st., in the Borough of Brooklyn.

The interest due on July 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 that day at the office of the Guaranty Trust Co. of New York, 140 Broadway, Borough of Manhattan.

The coupons that are payable on July 1, 1915, for interest on bonds issued by the former County of Queens will be paid on that day 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 July 1, 1915, will be closed from June 15, 1915, to July 1, 1915.

WILLIAM A. PRENDERGAST, Comptroller.

City of New York, Department of Finance, Comptroller's Office, June 1st, 1915. j1,jy1

Sureties on Contracts.

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

Supplies of Any Description, Including Gas and Electricity.

One company on a bond up to $50,000.

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

Construction.

One company on a bond up to $25,000.

Including regulating, grading, paving, sewers, maintenance, dredging, construction of parks, parkways, docks, buildings, bridges, tunnels, aqueducts, repairs, heating, ventilating, plumbing, etc., etc.

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

Asphalt, Asphalt Block and Wood Block Pavements.

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

January 1, 1914.

WILLIAM A. PRENDERGAST, Comptroller.

Confirmation of Assessments.

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:

SECOND WARD.

REGULATING, GRADING, CURBING AND FLAGGING HUNT PLACE (Park Street) to Lake street; in LAKE STREET from Louona (Grand) avenue to Alburtis (Sycamore) avenue; in HUNT PLACE from Louona avenue to Alburtis avenue; west side of CULVER PLACE (Linden street) from Hunt place to Lake street; on northerly side of LAKE STREET from Louona avenue to Alburtis avenue; HUNT PLACE from Louona avenue to Culver place; southerly side of HUNT PLACE from Culver place to Alburtis avenue; and for LAYING CROSSWALKS in LAKE STREET from Louona avenue to Alburtis avenue, and in HUNT PLACE from Louona avenue to Alburtis avenue.

—that the same was confirmed by the Board of Revision of Assessments June 17, 1915, and entered June 17, 1915, 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 assessment 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, 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 August 16, 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.

WILLIAM A. PRENDERGAST, Comptroller.

City of New York, Department of Finance, Comptroller's Office, June 17, 1915. j24,jy6

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.

RIDGE STREET—REGULATING, GRADING, CURBING AND FLAGGING from the Boulevard to Ely avenue. Area of assessment: Both sides of Ridge street from the Boulevard to Ely avenue, and to the extent of half the block at the intersecting streets and avenues.

SEWER in SHERMAN STREET from Camelia street to Elm street and from Temple street to Grand avenue; and DRAINS in SHERMAN STREET from Broadway to Camelia street and from Elm street to Temple street. Area of assessment affects properties in Blocks Nos. 15 to 19, inclusive, and 29 to 33, inclusive.

FOURTH WARD.

SEWER in SPRUCE STREET from Jamaica avenue to St. Ann's avenue, and in ST. ANN'S AVENUE from Birch street to Brevoort street. Area of assessment affects properties in Blocks Nos. 148, 149, 150, 202 and 203.

SEWER in CHICHESTER AVENUE from Freedom avenue to Ocean avenue, east side, and in LAWN AVENUE from Chichester avenue to Beaufort avenue. Area of assessment affects properties in Blocks Nos. 365, 435, 437 and 438.

SEWER in CHICHESTER AVENUE from Lefferts avenue to Maure avenue; in BIRCH STREET, SPRUCE STREET and SOUTH COCHRAN AVENUE from Atlantic avenue to Chichester avenue; SOUTH VILLA STREET from Garden street to Chichester avenue; SOUTH WICKS STREET and SOUTH MORRIS AVENUE from Garden street to Beaufort avenue. Area of assessment affects properties in Blocks Nos. 483, 484, 486, 487, 489, 491, 492, 494, 495, 497, 498, 500, 501, 503, 504, 506 and 507.

SEWER in KIMBALL AVENUE from Freedom avenue to Hatch avenue; OCEAN AVENUE, west side, from Kimball avenue to Jerome avenue; THEDFORD AVENUE from Kimball avenue to Jerome avenue; HATCH AVENUE from Kimball avenue to Jerome avenue, and in JEROME AVENUE from Ocean avenue to Hatch avenue. Area of assessment affects properties in Blocks Nos. 362, 364, 404 to 404, inclusive, and 523 to 526, inclusive.

—that the same were confirmed by the Board of Assessors June 15, 1915, and entered June 15, 1915, 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 Bergen Building, fourth floor, southeast corner of Arthur and Tremont aves., Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before August 16, 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.

WILLIAM A. PRENDERGAST, Comptroller.

City of New York, Department of Finance, Comptroller's Office, June 17, 1915. j24,jy6

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.

RIDGE STREET—REGULATING, GRADING, CURBING AND FLAGGING from the Boulevard to Ely avenue. Area of assessment: Both sides of Ridge street from the Boulevard to Ely avenue, and to the extent of half the block at the intersecting streets and avenues.

SEWER in SHERMAN STREET from Camelia street to Elm street and from Temple street to Grand avenue; and DRAINS in SHERMAN STREET from Broadway to Camelia street and from Elm street to Temple street. Area of assessment affects properties in Blocks Nos. 15 to 19, inclusive, and 29 to 33, inclusive.

FOURTH WARD.

SEWER in SPRUCE STREET from Jamaica avenue to St. Ann's avenue, and in ST. ANN'S AVENUE from Birch street to Brevoort street. Area of assessment affects properties in Blocks Nos. 148, 149, 150, 202 and 203.

SEWER in CHICHESTER AVENUE from Freedom avenue to Ocean avenue, east side, and in LAWN AVENUE from Chichester avenue to Beaufort avenue. Area of assessment affects properties in Blocks Nos. 365, 435, 437 and 438.

SEWER in CHICHESTER AVENUE from Lefferts avenue to Maure avenue; in BIRCH STREET, SPRUCE STREET and SOUTH COCHRAN AVENUE from Atlantic avenue to Chichester avenue; SOUTH VILLA STREET from Garden street to Chichester avenue; SOUTH WICKS STREET and SOUTH MORRIS AVENUE from Garden street to Beaufort avenue. Area of assessment affects properties in Blocks Nos. 483, 484, 486, 487, 489, 491, 492, 494, 495, 497, 498, 500, 501, 503, 504, 506 and 507.

SEWER in KIMBALL AVENUE from Freedom avenue to Hatch avenue; OCEAN AVENUE, west side, from Kimball avenue to Jerome avenue; THEDFORD AVENUE from Kimball avenue to Jerome avenue; HATCH AVENUE from Kimball avenue to Jerome avenue, and in JEROME AVENUE from Ocean avenue to Hatch avenue. Area of assessment affects properties in Blocks Nos. 362, 364, 404 to 404, inclusive, and 523 to 526, inclusive.

—that the same were confirmed by the Board of Assessors June 15, 1915, and entered June 15, 1915, 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 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 August 14, 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, June 15, 1915. j22,jy2

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:

SEVENTH WARD, SECTION 7; EIGHTEENTH WARD, SECTION 10; TWENTY-FIFTH WARD, SECTION 6, and TWENTY-SEVENTH WARD, SECTION 11.

FENCING VACANT LOTS on ATLANTIC AVENUE, north side, between Grand and Classon avenues; LOUIS PLACE, west side, between Herkimer street and Atlantic avenue; KNICKERBOCKER AVENUE, east side, between Melrose street and Flushing avenue; and BUSHWICK AVENUE, east side, between Metropolitan avenue and Devoe street. Area of assessment affects Lots 70 to 73, inclusive, and 25 in Block 2019; Lots 32 and 33, Block 1560; Lots 2 to 6, inclusive, Block 3159; and Lots 6 and 8 in Block 2916.

—that the same was confirmed by the Board of Assessors on June 15, 1915, and entered on June 15, 1915, 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 assessment 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 Offerman 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 August 14, 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.

WILLIAM A. PRENDERGAST, Comptroller.

City of New York, Department of Finance, Comptroller's Office, June 15, 1915. j22,jy2

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 THE BRONX:

TWENTY-THIRD WARD, SECTION 10.

SENECA AVENUE—REGULATING, REGRADING, SETTING AND RESETTING CURBSTONES, FLAGGING AND REFLAGGING SIDEWALKS, LAYING AND RELAYING CROSSWALKS AND PAVING, from Hunt's Point avenue to 100 feet east of Edgewater Road. Area of assessment: Both sides of Seneca avenue from Hunt's Point road to the bulkhead line of the Bronx River and to the extent of half the block at the intersecting streets.

LONGWOOD AVENUE AND BARRY STREET—RECEIVING BASIN at the southwest corner. Area of assessment affects property in Block 2736.

TWENTY-FOURTH WARD, SECTION 11.

WALTON AVENUE and EAST ONE HUNDRED AND SEVENTY-FOURTH STREET—RECEIVING BASIN at the southeast corner. Area of assessment affects properties in Blocks Nos. 2795, 2822, 2823, 2825, 2826 and 2838.

TWENTY-FOURTH WARD, SECTION 12.

BAILEY AVENUE AND WEST TWO HUNDRED AND THIRTY-EIGHTH STREET—RECEIVING BASINS at the northeast and southeast corners. Area of assessment affects Blocks Nos. 3262 and 3263.

—that the same were confirmed by the Board of Assessors on June 15, 1915, and entered June 15, 1915, 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

---

EAST ELEVENTH STREET—RESTORING ASPHALT PAVEMENT in front of Nos. 732-736. Area of assessment affects property as above known as Lot 39 in Block 380.

TWENTY-SECOND WARD, SECTION 4.

WEST SEVENTY-FIRST STREET—RESTORING ASPHALT PAVEMENT in front of No. 31. Area of assessment affects property as above, known as Lot 18, Block 1124.

The above assessments were certified to the Collector of Assessments and Arrears, under the provisions of section 391 of the Greater New York Charter.

—that the same were entered on June 12, 1915, 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, Municipal Building, north side, third floor, Borough of Manhattan, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before August 11, 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, June 12, 1915. j22,jy2

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 THE BRONX:

TWENTY-THIRD WARD, SECTION 10.

SENECA AVENUE—REGULATING, REGRADING, SETTING AND RESETTING CURBSTONES, FLAGGING AND REFLAGGING SIDEWALKS, LAYING AND RELAYING CROSSWALKS AND PAVING, from Hunt's Point avenue to 100 feet east of Edgewater Road. Area of assessment: Both sides of Seneca avenue from Hunt's Point road to the bulkhead line of the Bronx River and to the extent of half the block at the intersecting streets.

LONGWOOD AVENUE AND BARRY STREET—RECEIVING BASIN at the southwest corner. Area of assessment affects property in Block 2736.

TWENTY-FOURTH WARD, SECTION 11.

WALTON AVENUE and EAST ONE HUNDRED AND SEVENTY-FOURTH STREET—RECEIVING BASIN at the southeast corner. Area of assessment affects properties in Blocks Nos. 2795, 2822, 2823, 2825, 2826 and 2838.

TWENTY-FOURTH WARD, SECTION 12.

BAILEY AVENUE AND WEST TWO HUNDRED AND THIRTY-EIGHTH STREET—RECEIVING BASINS at the northeast and southeast corners. Area of assessment affects Blocks Nos. 3262 and 3263.

—that the same were confirmed by the Board of Assessors on June 15, 1915, and entered June 15, 1915, 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

---

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 MANHATTAN:

ELEVENTH WARD, SECTION 2.

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 Bergen Building, fourth floor, southeast corner of Arthur and Tremont aves., Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before August 14, 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, June 15, 1915. j22,jy2

BELLEVUE AND ALLIED HOSPITALS, DEPARTMENT OF BRIDGES, DEPARTMENT OF CORRECTION, DEPARTMENT OF DOCKS AND FERRIES, FIRE DEPARTMENT, DEPARTMENT OF PUBLIC CHARITIES, DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by Bellevue and Allied Hospitals, Dep't of Bridges, Dep't of Correction, Dep't of Docks and Ferries, Fire Department, Dep't of Public Charities, Dep't of Water Supply, Gas and Electricity at Room 1230, Municipal Building, Borough of Manhattan, City of New York, until 12 o'clock M. on

WEDNESDAY, JULY 7, 1915,

FOR FURNISHING AND DELIVERING CORDAGE, ROPE AND OAKUM.

The time for the performance of the contract is during the period ending December 31, 1915.

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

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

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

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

Blank forms and further information may be obtained at Room 1226, Municipal Building, Borough of Manhattan.

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

DEP'T OF BRIDGES, F. J. H. KRACKE, Commissioner.

DEP'T OF CORRECTION, KATHARINE BEMENT DAVIS, Commissioner.

DEP'T OF DOCKS AND FERRIES, R. A. C. SMITH, Commissioner.

FIRE DEPARTMENT, ROBERT ADAMSON, Commissioner.

DEP'T OF PUBLIC CHARITIES, JOHN A. KINGSBURY, Commissioner.

DEP'T OF WATER SUPPLY, GAS AND ELECTRICITY, WILLIAM WILLIAMS, Commissioner. j24,jy7

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

BOROUGH OF QUEENS.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Queens at Third Floor, Borough Hall, Fifth Street and Jackson Avenue, Long Island City, until 11 o'clock a. m. on

THURSDAY, JULY 8, 1915,

NO. 1. FOR REGULATING AND GRADING VAN ALST AVENUE FOR FULL WIDTH FROM HARRIS AVENUE TO A LINE ABOUT 240 FEET NORTHERLY THEREOF, AND FROM PAYNTAR AVENUE TO FREEMAN AVENUE; AND FOR A WIDTH OF 30 FEET CENTRALLY LOCATED FROM NORTH JANE STREET TO PAYNTAR AVENUE; AND FROM FREEMAN AVENUE TO WEBSTER AVENUE, AND FOR A WIDTH OF 30 FEET LOCATED FROM 5 TO 35 FEET WEST OF CENTER LINE FROM WEBSTER AVENUE TO RIDGE STREET, AND FOR THE CONSTRUCTION OF NECESSARY DRAINS, AND ALL OTHER WORK INCIDENTAL THERETO, FIRST WARD OF THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be Two hundred and fifty (250) working days.

The amount of security required will be Thirty thousand ($30,000) Dollars.

The Engineer's estimate of the quantities is as follows:

140,000 cu. yds. of embankment (in excess of excavation).

200 lin. ft. of 24-inch Cast Iron Pipe Drains, in Place.

3,500 lin. ft. of Spruce Piles in place for drains.

25 M. ft. B. M. Spruce Timber in Drains, in place.

6,000 lin. ft. of completed Guard Rail erected.

10 cubic yards of concrete.

NO. 2. FOR FURNISHING AND DELIVERING TO THE BUREAU OF HIGHWAYS 62,000 ASPHALT PAVING BLOCKS AS DIRECTED, IN THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be Thirty (30) calendar days.

The amount of security required will be thirty (30%) per cent. of the total amount for which the contract is awarded.

NO. 3. FOR REGULATING AND GRADING CUSTER (15TH) STREET FROM BAYREUTH (BEACH) STREET TO SANFORD AVENUE, THIRD WARD OF THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be Thirty (30) working days.

The amount of security required will be One thousand five ($1,500) hundred Dollars.

The Engineer's estimate of the quantities is as follows:

100 cu. yds. of earth excavation.

5,500 cu. yds. of Embankment (in excess of excavation).

10 cu. yds. of Concrete.

100 sq. yds. stone gutters, furnished and laid.

100 sq. yds. of Cobble Gutters relaid.

NO. 4. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS (WHERE NOT ALREADY LAID TO GRADE AND IN GOOD CONDITION), TOGETHER WITH ALL WORK INCIDENTAL THERETO, IN ALBURTIS AVENUE FROM POLK AVENUE TO FILLMORE AVENUE, SECOND WARD OF THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be Thirty (30) Working Days.

The amount of security required will be One thousand ($1,000) Dollars.

The Engineer's estimate of the quantities is as follows:

1,500 cu. yds. of earth excavation.

10 cu. yds. rock excavation.

1,050 lin. ft. cement curb with steel nosing and one year's maintenance.

3,700 sq. ft. cement sidewalk, and one year's maintenance.

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, June 26th, 1915.

j26,jy8 MAURICE E. CONNOLLY, President.

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

BOROUGH OF MANHATTAN.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Manhattan at Room 2032, Municipal Building, until 2 o'clock P. M. on

FRIDAY, JULY 9, 1915,

NO. 1. FOR FURNISHING ALL LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING A TUNNEL RELIEF SEWER AND APPURTENANCES IN EAST 41ST STREET, FROM THE EAST RIVER TO MADISON AVENUE, AND IN MADISON AVENUE, FROM 41ST TO 43RD STREET, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's Estimate of quantity and quality of the materials, and the nature and extent as near as possible of the work required is as follows:

Tunnel Items.

Item 1: Excavation of Shafts, in earth, 208 Cu. Yds.

Item 2: Excavation of shafts, in rock, 246 Cu. Yds.

Item 3: Excavation of tunnels, 7,660 Cu. Yds.

Item 4: Backfilling shafts, 575 Cu. Yds.

Item 5: Class A. concrete in shafts and manholes, 114 Cu. Yds.

Item 6: Class A. concrete in tunnels, 2,980 Cu. Yds.

Item 7: Dry packing in tunnels and shafts, 370 Cu. Yds.

Item 8: Additional trimming in shafts, 200 Sq. Yds.

Item 9: Additional trimming in tunnels, 1,000 Sq. Yds.

Item 10: Grout of Portland cement in tunnels and shafts, 690 Barrels of cement.

Item 11: Vitrified shale hollow tile invert blocks in tunnels, 29,870 Sq. Ft.

Item 12: Permanent structural steel roof support in tunnels, 95,000 Pounds.

Item 13: Permanent timber and lumber in tunnels and shafts, 56,500 feet, board measure.

Open Cut Items.

Item 14: 7′ 0″ x 9′ 0″ concrete sewer, complete, 290 Lin. Ft.

Item 15: 8′ 0″ x 8′ 0″ concrete sewer, complete, 100 Lin. Ft.

Item 16: 4′ 0″ x 3′ 0″ brick sewer, complete, 60 Lin. Ft.

Item 17: 4′ 0″ x 2′ 8″ brick sewer, complete, 175 Lin. Ft.

Item 18: Transition section and sanitary branch at St. 2+75, complete, 1.

Item 19: Manholes, complete, 5.

Item 20: Class B. concrete, 100 Cu. Yds.

Item 21: Dry rubble masonry, 25 Cu. Yds.

Item 22: Rock excavation, 780 Cu. Yds.

Item 23: 12″ vitrified drain pipe, 75 Lin. Ft.

Item 24: Timber and flooring in foundation, 22,700 Ft. B. M.

Item 25: Sheeting and bracing, 70,000 Ft. B. M.

Item 26: Piles, in place, 5,500 Lin. Ft.

General Items.

Apply to both open cut, and tunnel and shaft work.

Item 27: Brick masonry, 60 Cu. Yds.

Item 28: Vitrified brick masonry, 10 Cu. Yds.

Item 29: Rubble masonry in mortar, 50 Cu. Yds.

Item 30: Stone ballast, other than that used in concrete, 400 Cu. Yds.

Item 31: Structural steel beams and shapes, with or without connections, 6,000 Pounds.

Item 32: Miscellaneous cast iron, wrought iron and steel, 9,000 Pounds.

Item 33: Additional steel reinforcement rods imbedded in concrete, 10,000 Pounds.

Item 34: 8″ Vitrified drain pipe, 1,000 Lin. Ft.

Item 35: 6″ Vitrified drain pipe for house connections, 200 Lin. Ft.

Item 36: 3″ Vitrified drain pipe for weepers, 200 Lin. Ft.

The time allowed for the completion of the work and full performance of the Contract will be Three Hundred and Fifty (350) Consecutive Working Days.

The amount of security required will be Seventy-five Thousand Dollars ($75,000.00) and the amount of deposit accompanying the bid shall be five per cent. (5%) of the amount of security.

NO. 2. FOR THE ALTERATION AND IMPROVEMENT TO SEWER IN WALL STREET BETWEEN BROADWAY AND WILLIAM STREET.

The engineer's estimate of the quantity and quality of the material, and the nature and extent as near as possible of the work required, is as follows:

647 linear feet of 4′ 0″ x 2′ 8″ Brick Sewer, complete.

59 linear feet of 12″ Vitrified Pipe Culvert, complete.

100 Spurs for house-connections.

9 Manholes, complete.

41,500 feet B. M. of Timber and Planking for Bracing and Sheeting.

1 Inlet (Type "A"), complete.

1 Settling Basin, complete.

The time allowed for constructing and completing the Sewer and Appurtenances will be Seventy (70) consecutive working days.

The amount of security required will be Six Thousand Dollars ($6,000) and the amount of deposit accompanying the bid shall be five per cent. (5%) of the amount of security.

The bidder will state the price for each item or article contained in the specifications or schedules herein contained or hereto annexed, per foot, yard or other unit of measure or article, by which the bid will be tested. The contract, if awarded, will be awarded for the whole work at a lump sum.

Blank forms may be had and the plans and drawings may be seen at the offices of the Commissioner of Public Works, Municipal Building, Bureau of Sewers, Room 2103, Borough of Manhattan. MARCUS M. MARKS, President.

June 26, 1915. j26,jy9

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

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

FRIDAY, JULY 9, 1915,

FOR FURNISHING AND DELIVERING ONE FOUR (4) TON AUTO-TRUCK, BODY, CRANE, BUCKET, ETC., FOR CLEANING CATCH BASINS.

ITEM "NO. 1." FOR FURNISHING ONE FOUR TON AUTO CHASSIS WITH POWER-TAKE-OFF.

ITEM "NO. 2." FOR FURNISHING SUPERSTRUCTURE, INCLUDING BODY, CRANE, BUCKET, SHAFTS, GEARS, ETC., IN ACCORDANCE WITH LAYOUT "A," AS SHOWN ON PLANS.

ITEM "NO. 3." FOR FURNISHING SUPERSTRUCTURE, INCLUDING BODY, CRANE, BUCKET, SHAFTS, GEARS, ETC., IN ACCORDANCE WITH LAYOUT "B," AS SHOWN ON PLANS.

The time allowed for furnishing and delivering Item No. 1 will be Thirty (30) consecutive calendar working days.

The time allowed for furnishing and delivering Items Nos. 2 or 3 will be one hundred (100) consecutive calendar working days.

The amount of security required for Item No. 1 will be Two thousand ($2,000) dollars.

The amount of security required for Items Nos. 2 and 3 will one thousand ($1,000) dollars.

The amount of deposit accompanying each bid will be five (5) per cent. of the amount of security.

Proposals will be received for all or any of the Items above described.

The bidder will state one aggregate price for each item described and specified, as selected. The bids will be compared and the contract awarded at a lump or aggregate sum to the lowest bidder of the item or items selected and determined upon.

Blank forms, specifications and plans may be obtained at the office of the Auditor, offices of the Commissioner of Public Works, Room 2141, Municipal Building, Bor. of Manhattan.

MARCUS M. MARKS, President.

June 26, 1915. j26,jy9

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

BELLEVUE AND ALLIED HOSPITALS, DEPARTMENT OF BRIDGES, FIRE DEPARTMENT, DEPARTMENT OF PUBLIC CHARITIES, DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by Bellevue and Allied Hospitals, Dep't of Bridges, Fire Department, Dep't of Public Charities, Dep't of Water Supply, Gas and Electricity at Room 1230, Municipal Building, Borough of Manhattan, City of New York, until 12 o'clock noon on

WEDNESDAY, JULY 7, 1915,

FOR FURNISHING AND DELIVERING LUMBER.

The time for the performance of the contract is during the period ending December 31, 1915.

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

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

The bidder will state the price per M. ft. B. M. or other designated unit, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total and awards made to the lowest bidder on each class, as stated in the specifications.

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

Blank forms and further information may be obtained at Room 1226, Municipal Building, Borough of Manhattan.

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

DEP'T OF BRIDGES, F. J. H. KRACKE, Commissioner.

FIRE DEPARTMENT, ROBERT ADAMSON, Commissioner.

DEP'T OF PUBLIC CHARITIES, JOHN A. KINGSBURY, Commissioner.

DEP'T OF WATER SUPPLY, GAS AND ELECTRICITY, WILLIAM WILLIAMS, Commissioner. j24,jy7

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

DEPARTMENT OF BRIDGES, DEPARTMENT OF DOCKS AND FERRIES, FIRE DEPARTMENT, DEPARTMENT OF PUBLIC CHARITIES, DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by Dep't of Bridges, Dep't of Docks and Ferries, Fire Department, Dep't of Public Charities, Dep't of Water Supply, Gas and Electricity at Room 1230, Municipal Building, Borough of Manhattan, City of New York, until 12 o'clock noon on

WEDNESDAY, JULY 7, 1915,

FOR FURNISHING AND DELIVERING LIME, CEMENT, SAND ROCK, FIRE CLAY AND FIRE BRICK.

The time for the performance of the contract is on or before December 31, 1915.

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

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

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

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

Blank forms and further information may be obtained at Room 1226, Municipal Building, Borough of Manhattan.

DEP'T OF BRIDGES, F. J. H. KRACKE, Commissioner.

DEP'T OF DOCKS AND FERRIES, R. A. C. SMITH, Commissioner.

FIRE DEPARTMENT, ROBERT ADAMSON, Commissioner.

DEP'T OF PUBLIC CHARITIES, JOHN A. KINGSBURY, Commissioner.

DEP'T OF WATER SUPPLY, GAS AND ELECTRICITY, WILLIAM WILLIAMS, Commissioner. j24,jy7

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

BELLEVUE AND ALLIED HOSPITALS, DEPARTMENT OF CORRECTION, DEPARTMENT OF DOCKS AND FERRIES, FIRE DEPARTMENT, DEPARTMENT OF HEALTH, POLICE DEPARTMENT, DEPARTMENT OF PUBLIC CHARITIES.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by Bellevue and Allied Hospitals, Dep't of Correction, Dep't of Docks and Ferries, Fire Department, Dep't of Health, Police Department, Dep't of Public Charities at Room 1230, Municipal Building, Borough of Manhattan, City of New York, until 12 o'clock noon on

WEDNESDAY, JULY 7, 1915,

FOR FURNISHING AND DELIVERING PAINTS, OILS, VARNISHES AND PAINTER'S SUPPLIES.

The time for the performance of the contract is on or before December 31, 1915.

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

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

The bidder will state the price per ounce, pound, gallon 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 and awards, if made, made to the lowest bidder on each line or class, as stated in the specifications.

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

Blank forms and further information may be obtained at Room 1226, Municipal Building, Borough of Manhattan.

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

DEPARTMENT OF CORRECTION, KATHARINE BEMENT DAVIS, Commissioner.

DEPARTMENT OF DOCKS AND FERRIES, R. A. C. SMITH, Commissioner.

FIRE DEPARTMENT, ROBERT ADAMSON, Commissioner.

DEPARTMENT OF HEALTH, S. S. GOLDWATER, M. D., Commissioner.

POLICE DEPARTMENT, A. WOODS, Commissioner.

DEPARTMENT OF PUBLIC CHARITIES, JOHN A. KINGSBURY, Commissioner. j24,jy7

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

DEPARTMENT OF EDUCATION.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the office of the Department of Education, Park Avenue and 59th Street, Manhattan, until 3 o'clock P. M. on

MONDAY, JULY 12, 1915,

Borough of Brooklyn.

NO. 1:—FOR ITEM 3, FURNITURE FOR NEW PUBLIC SCHOOL 169 ON THE EASTERLY SIDE OF SEVENTH AVENUE BETWEEN 43D AND 44TH STS., BOROUGH OF BROOKLYN.

The time allowed to complete the whole work will be sixty (60) working days, as provided in the contract.

The amount of security required is $800.

The deposit accompanying bid shall be five per centum of the amount of security.

On No. 1 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, Borough of Manhattan, and also at branch office, No. 131 Livingston St., Borough of Brooklyn.

C. B. J. SNYDER, Superintendent of School Buildings.

Dated, June 29, 1915. j29,jy12

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

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the office of the Department of Education, Park Avenue and 59th Street, Manhattan, until Three o'clock A. M., on

MONDAY, JULY 12, 1915,

Various Boroughs.

NO. 4:—FOR FURNISHING AND DELIVERING MATERIALS FOR USE OF MECHANICS (HEATING DIVISION—BUILDING BUREAU) IN THE PUBLIC SCHOOLS OF THE CITY OF NEW YORK, BOROUGHS OF MANHATTAN, THE BRONX, BROOKLYN, QUEENS AND RICHMOND. ITEMS 100 TO 267, 290 TO 442, 450 TO 451, 624, 975, 976, 1112 TO 1117, 1246 TO 1257, INCLUSIVE.

The time for the delivery of the materials and the performance of the contract is by or before the 31st day of December, 1915.

The amount of security required will be fifty (50%) of the amount of award.

Each bid or estimate must be accompanied by a certified check or cash to the amount of two and ½ (2½) 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 ($1,000) Dollars, 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 pages 1, 2 and 3 of the printed specifications.

Award of contract will be made as soon as practicable after the opening of bids.

Bidders must be prepared to submit duplicate samples upon demand.

Award will be made to the lowest bidder on each item or classes of items where indicated, whose sample is equal to the sample of the Board of Education, or referred to by catalog number.

Bidders must state the price of each item

contained in the specifications, by which the bids will be tested.

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

Blank forms and 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.

C. B. J. SNYDER, Superintendent of School Buildings.

Dated, June 29, 1915. j29,jy12

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

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the office of the Department of Education, Park Avenue and 59th Street, Manhattan, until three o'clock on

MONDAY, JULY 12, 1915,
Borough of Manhattan

NO. 2:—FOR ITEM I, GENERAL CONSTRUCTION, ALSO ITEM II, PLUMBING AND DRAINAGE, OF ADDITIONS TO AND ALTERATIONS IN PUBLIC SCHOOL 3, ON THE NORTHERLY SIDE OF GROVE ST., BETWEEN HUDSON AND BEDFORD STS., BOROUGH OF MANHATTAN.

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 I—$20,000. Item II—$1,000.

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. 3:—FOR REMOVAL OF STREET ENCROACHMENTS, ETC., AT PUBLIC SCHOOL 76, LEXINGTON AV. AND 68TH STREET, BOROUGH OF MANHATTAN.

The amount of security required is $2,000.

The deposit accompanying bid shall be five per centum of the amount of security.

On No. 2 the bidders must state the price of each item, by which the bids will be tested. Award of contract will be made to the lowest bidder on each item.

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 Ave. and 59th St., Borough of Manhattan.

C. B. J. SNYDER, Superintendent of School Buildings.

Dated, June 29, 1915. j29,jy12

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

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the office of the Department of Education, Park Avenue and 59th Street, Manhattan, until eleven o'clock A. M., on

TUESDAY, JULY 6, 1915,
Borough of Queens.

NO. 2. FOR REPAIRING FURNITURE, ETC., IN PUBLIC SCHOOL 71, ON FOREST AVENUE, NEAR METROPOLITAN AVENUE, EAST WILLIAMSBURGH, BOROUGH OF QUEENS.

The time allowed to complete the whole work will be thirty (30) working days, as provided in the contract.

The amount of security required is Seven Hundred Dollars ($700).

The deposit accompanying bid shall be five per centum of the amount of security.

Borough of Richmond.

NO. 3. FOR ALTERATIONS, REPAIRS, ETC., AT PUBLIC SCHOOL 14, BROAD AND BROOK STREETS, STAPLETON, BOROUGH OF RICHMOND.

The time allowed to complete the whole work will be fifty-five (55) working days, as provided in the contract.

The amount of security required is Six Hundred Dollars ($600).

The deposit accompanying bid shall be five per centum of the amount of security.

On Nos. 1 and 2 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 June 23, 1915. j23,jy6

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

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings, at the office of the Department of Education, Park Avenue and 59th Street, Manhattan, until eleven o'clock A. M., on

TUESDAY, JULY 6, 1915,
Borough of Brooklyn.

NO. 4. FOR PERMANENT EQUIPMENT OF TOOLS AND APPARATUS (ITEMS 3A TO 5B, INCLUSIVE), FOR BUSHWICK HIGH SCHOOL, ON THE SOUTHERLY SIDE OF IRVING AVENUE, ABOUT 260 FEET WEST OF PUTNAM AVENUE, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work of each item will be sixty (60) working days, as provided in the contract.

The amount of security required for each item or contract is fifty (50) per cent. of award.

A separate bid must be submitted for each item, and a separate bid may also be submitted for all items, and award wil be made on separate items or upon all items in one contract, as deemed to be to the best interests of the City.

Each bid or estimate must be accompanied by a certified check or cash, to the amount of two and one-half (2½) 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.

Attention of all intending bidders is expressly called to page 1 of the printed specifications.

Bidders must be prepared to submit samples upon demand. Award of contract will be made to the lowest bidder on each item or classes of items where indicated.

Bidders must state the price of each item contained in the specifications, by which the bids will be tested.

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

Blank forms and 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 June 23, 1915. j23,jy6

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

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the office of the Department of Education, Park Avenue and 59th Street, Manhattan, until eleven o'clock A. M., on

TUESDAY, JULY 6, 1915,
Borough of Brooklyn.

NO. 1. FOR SANITARY ALTERATIONS AT PUBLIC SCHOOLS 23, 43, 88, 108, AND TRUANT SCHOOL, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work on each item on each school will be fifty-five (55) working days, as provided in the contract.

The amount of security required is as follows:

P. S. 23, Item 1, $400; P. S. 23, Item 2, $1,000; P. S. 43, $300; P. S. 88, $200; P. S. 108, $500; T. S., Item 1, $1,500; T. S., Item 2, $1,500.

The deposit accompanying bid on each item for each school shall be five per centum of the amount of security.

A separate proposal must be submitted for each item for each school, and award will be made thereon.

On No. 1, the bidders must state the price of each item by which the bids will be tested. Award of contract will be made to the lowest bidder on each item.

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 June 23, 1915. j23,jy6

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

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the office of the Department of Education, Park Avenue and 59th Street, Manhattan, until eleven o'clock A. M., on

TUESDAY, JULY 6, 1915,
Borough of Manhattan.

NO. 5. FOR PADLOCKS AND KEYS FOR VARIOUS SCHOOLS IN THE BOROUGHS OF MANHATTAN, BROOKLYN, QUEENS AND RICHMOND.

The time allowed to complete the whole work on each item will be twenty (20) working days, as provided in the contract.

The amount of security required for each item or contract is fifty (50%) per cent. of the award.

A separate proposal must be submitted for each item, and award will be made for each item as soon as practicable after the opening of the bids.

Each bid or estimate must be accompanied by a certified check or cash to the amount of two and one-half (2½) 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.

Attention of all intending bidders is expressly called to pages 1 and 2 of the printed specification.

Bidders must be prepared to submit samples upon demand.

Award of contract will be made to the lowest bidder on each item or classes of items.

Bidders must state the price of each item contained in the specifications, by which the bids will be tested.

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

Blank forms and 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.

C. B. J. SNYDER, Superintendent of School Buildings.

Dated June 23, 1915. j23,jy6

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

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the office of the Department of Education, Park Avenue and 59th Street, Manhattan, until eleven o'clock A. M., on

TUESDAY, JULY 6, 1915,
Borough of Brooklyn.

NO. 1. FOR REPAIRING FURNITURE, ETC., IN PUBLIC SCHOOL 71, ON FOREST AVENUE, NEAR METROPOLITAN AVENUE, EAST WILLIAMSBURGH, BOROUGH OF QUEENS.

The time allowed to complete the whole work will be thirty (30) working days, as provided in the contract.

The amount of security required is Seven Hundred Dollars ($700).

The deposit accompanying bid shall be five per centum of the amount of security.

Borough of Richmond.

NO. 3. FOR ALTERATIONS, REPAIRS, ETC., AT PUBLIC SCHOOL 14, BROAD AND BROOK STREETS, STAPLETON, BOROUGH OF RICHMOND.

The time allowed to complete the whole work will be fifty-five (55) working days, as provided in the contract.

The amount of security required is Six Hundred Dollars ($600).

The deposit accompanying bid shall be five per centum of the amount of security.

On Nos. 1 and 2 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 June 23, 1915. j23,jy6

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

BOARD OF ASSESSORS.

Completion of Assessments.

PUBLIC NOTICE IS HEREBY GIVEN TO the owner 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.

4656. Reconstruction of receiving basin at the southwest corner of East 93rd Street and Third Avenue. Affecting Block No. 1521.

4657. Receiving Basins adjacent to the northeast corner of West 191st Street and the southeast corner of West 192nd Street and Wadsworth Avenue. Affecting Block No. 2169.

4658. Receiving Basins on the south side of West 191st Street at about the west house line of Audubon Avenue and on the east side of St. Nicholas Avenue at about the south house line of West 191st Street. Affecting Block No. 2161.

4659. Sewer in West 161st Street between Riverside Drive and Fort Washington Avenue. Affecting Block No. 2136.

4671. Receiving Basin at the southwest corner of West 215th Street and Park Terrace East. Affecting Block No. 2243.

4672. Receiving Basins adjacent to the northeast corner of Washington Place and Washington Square East, and adjacent to the southwest corner of Greene Street and Waverly Place. Affecting Block No. 547.

4688. Alteration and improvement to sewer in East 93rd Street from a point about 60 feet east of Third Avenue to Lexington Avenue. Affecting Block Nos. 1521, 1522, 1538 and 1539.

4689. Alteration and improvement to sewer on the west side of Park Avenue between 119th and 120th Streets. Affecting Block Nos. 1746 and 1747.

4690. Alteration and improvement to catch basins at the northeast and northwest corners of South Street and Market Slip. Affecting Block Nos. 249 and 250.

4691. Alteration and improvement to sewer in 38th Street between Broadway and Sixth Avenue. Affecting Block Nos. 813 and 814.

Borough of The Bronx.

4502. Regulating, grading, curbing, flagging, etc., Fieldston Road from Mosholu Avenue to about 303 feet north of West 250th Street. Affecting Block Nos. 3421 and 3423.

4631. Paving Clason's Point Road from Westchester Avenue to the East River. Affecting Block Nos. 3429 to 3462, 3465, 3468 to 3480, 3493 to 3502, 3519 to 3528, 3553, 3557 to 3561, 3596 to 3600, 3634 to 3641, 3657 to 3666, 3719 to 3727 and 3744 to 3750.

4640. Regulating, grading, curbing, flagging, etc., Fordham Road from Harlem River Terrace to Webster Avenue. Affecting Block Nos. 3023, 3026, 3148, 3153, 3154, 3166, 3167, 3173, 3174, 3184, 3188, 3189, 3199, 3200, 3203, 3209, 3212, 3213, 3218, 3219, 3225, 3226, 3232 to 3236, 3275, 3286 to 3293.

4649. Receiving Basin and appurtenances at the southwest corner of East 149th Street and Morris Avenue. Affecting Block No. 2337.

4650. Sewer and appurtenances in Glover Street between Lyon and St. Raymond Avenues. Affecting Block Nos. 3967, 3968 and 3971.

4651. Spuyten Duyvil Outlet Sewer from Harlem River Ship Canal to former right of way of the N. Y. C. & H. R. R. R. and in said right of way to West 230th Street. Sewers and appurtenances in Waldo Avenue between West 242nd Street and West 236th Street; West 236th Street between Waldo and Riverdale Avenues; Riverdale Avenue between West 236th Street and West 238th Street; Greystone Avenue between West 236th Street and 500 feet north of West 238th Street; West 238th Street between Waldo and Riverdale Avenues. Also with temporary connections at the intersections of Waldo Avenue and Greystone Avenue at West 236th Street, Greystone Avenue and Fieldston Road with West 238th Street and West 236th Street with Riverdale Avenue and Fieldston Road. Affecting Block Nos. 3402, 3403, 3406, 3407, 3408, 3409, 3412, 3414, 3416, 3417, 3418 and 3422.

4684. Flagging the sidewalk in front of premises Ncs. 30 and 32 Kingsbridge Road East. Affecting property in front of which work was done.

4685. Flagging the sidewalk in front of premises No. 515 East 139th Street. Affecting property in front of which work was done.

4686. Flagging the sidewalk on the south side of Teasdale Place between points 235 and 335 feet east of Boston Road. Affecting property in front of which work was done.

Borough of Richmond.

4660. Sewer and appurtenances in Fletcher Street from a point about 100 feet east of Wall Street to a point about 95 feet west of Clifton Avenue. Affecting Plot 3, Fourth Ward.

4661. Receiving Basins on Richmond Turnpike, northwest side, between Westervelt Avenue and Pike Street; northwest corner of Pike Street; northwest side, about 220 feet south of Jersey Street; northeast corner of Cebra Avenue; southeast side, about 300 feet north of Austin Place; and northeast corner of Louis Street. Also on the north side of Brook Street, about 300 feet west of Westervelt Avenue, and at the northwest corner of Bay Street and Broad Street. Affecting District 1, Plot 4, Blocks 13, 14 and 15, and District 2, Plot 6, Blocks 9, 9A, 9B and 9C, First Ward, and Plots 3, 4 and 8, Second Ward.

4662. Sidewalks on Amboy Road from a point 195 feet west of Keegan's Lane to a point 990 feet west of Lindenwood Road, Fourth Ward. Affecting property in front of which work was done.

4663. Regulating and grading the sidewalk space and sidewalks on Charles Avenue between Lafayette and Nicholas Avenues, Third Ward. Affecting property in front of which work was done.

4664. Grading the sidewalk space and sidewalks on the south side of New Dorp Lane between First Street and Tenth Street, and grading Third Street between Elm and Locust Avenues, Fourth Ward. Affecting property in front of which work was done.

4665. Regulating, grading, curbing, flagging, etc., Heberton Avenue from a point about 195 feet north of the north line of Ann Street to Richmond Terrace. Affecting Blocks 2, 3, 6, 7, 8, 10½, 11, 13 and 14, Third Ward.

Borough of Queens.

4619. Regulating, grading, curbing, flagging and paving Grand Avenue from Steinway Avenue to 18th Avenue, First Ward.

Borough of Brooklyn.

4618. Regulating, grading, curbing and flagging Schenectady Avenue between Flatlands and Flatbush Avenues.

4677. Paving 84th Street from Ridge Boulevard to Colonial Road.

The area of assessment in the above mentioned lists extends to within half the block at the intersecting and terminating streets and avenues.

4666. Sewer Basins on Benson Avenue at the north and east corners of Bay 14th Street. Affecting Block Nos. 6364 and 6365.

4667. Sewer Basins on Snediker Avenue at the northeast and northwest corners of Hegeman Avenue. Affecting Block Nos. 3865 and 3866.

4668. Sewer in 90th Street between Second and Third Avenues. Affecting Block Nos. 6063 and 6080.

4669. Sewer in 64th Street from 9th Avenue to Fort Hamilton Parkway, and in Fort Hamilton Parkway, west side, from 64th Street to 63rd Street. Affecting Block Nos. 5736 and 5743.

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 Tuesday, July 27, 1915, 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.

June 26, 1915. j26,jy8

Notice to Present Claims for Damages.

PUBLIC NOTICE IS HEREBY GIVEN TO all persons claiming to have been injured by a 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 Thursday, July 8, 1915, 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 Brooklyn.

4681. Benson Avenue from 21st Avenue to 22nd Avenue.

4682. Fanchon Place from Jamaica Avenue to Eastern Parkway Extension.

4683. East 13th Street from Avenue K to Avenue L.

4692. Crescent Street from Blake Avenue to Vienna Avenue.

4693. East 7th Street from Ditmas Avenue to 18th Avenue.

4694. 16th Avenue from 60th Street to the Sea Beach Railroad.

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.

June 26, 1915. j26,jy8

BOROUGH OF BROOKLYN.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at Room 2, Borough Hall, until 11 o'clock A. M., on

WEDNESDAY, JULY 14, 1915,

FOR FURNISHING ALL THE LABOR AND MATERIAL AND INSTALLING COMPLETE THE MECHANICAL PLANT AT THE 26TH WARD DISPOSAL WORKS, HENDRIX STREET AND VANDALIA AVENUE, BROOKLYN.

The work to be done and the materials to be furnished are as follows:

Furnishing, delivering and installing complete and ready to run one (1) 8-inch and one (1) 10-inch Centrifugal Sewage Pump, their driving steam engines, all piping, valves, fittings and appurtenances necessary, and doing all the work shown on plans and called for in specifications.

The bidders will be required to guarantee the capacity, the steam consumption and the suitability of the units for the expected service.

The time allowed for the completion of the work and the full performance of the contract is Seventy (70) working days.

The amount of security required is Two thousand Five Hundred Dollars ($2,500).

The bidders will be required to deposit a certified check or sum of money equal to five (5) per centum 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, 215 Montague Street, Borough of Brooklyn.

jy1,14 L. H. POUNDS, President.

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

SEALED BIDS OR ESTIMATES WILL BE received by the President of Borough of Brooklyn at Room No. 2, Borough Hall, Borough of Brooklyn, until 11 o'clock A. M. on

WEDNESDAY, JULY 14, 1915,

NO. 1. FOR REPAIRING SIDEWALKS ON THE EAST SIDE OF BRIDGE ST., BETWEEN MYRTLE AVE. AND WILLOUGHBY ST. AND ON VARIOUS OTHER STREETS.

The Engineer's estimate is as follows:

750 sq. ft. cement sidewalks.

750 sq. ft. 6-inch cinder or gravel sidewalk foundation.

25 lin. ft. cement curb.

1,435 sq. ft. old flagstones relaid.

1,866 sq. ft. new flagstones.

Time allowed, 30 working days. Security required, $300.

NO. 2. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON BAY 19TH ST., FROM 86TH ST. TO BENSON AVE.

The Engineer's estimate is as follows:

100 cu. yds. excavation.

3,290 cu. yds. fill to be furnished.

10 lin. ft. old stone curb reset in concrete.

1,870 lin. ft. steel-bound cement curb (1 year maintenance).

9,110 sq. ft. cement sidewalks (1 year maintenance).

9,110 sq. ft. 6-inch cinder or gravel sidewalk foundation.

Time allowed, 40 working days. Security required, $1,100.

NO. 3. FOR REGULATING, GRADING, CURBING, LAYING SIDEWALKS AND PAVING WITH PRELIMINARY ASPHALT PAVEMENT ON A 5-INCH CONCRETE FOUNDATION THE ROADWAY OF EAST 9TH ST., FROM AVE. O TO AVE. Q.

The Engineer's estimate is as follows:

440 cu. yds. excavation.

1,620 cu. yds. fill to be furnished.

20 lin. ft. old curbstone reset in concrete.

240 lin. ft. bluestone heading stones set in concrete.

3,250 lin. ft. steel-bound cement curb (1 year maintenance).

13,080 sq. ft. cement sidewalks (1 year maintenance).

13,080 sq. ft. 6-inch cinder or gravel sidewalk foundation.

835 cu. yds. concrete.

6,015 sq. yds. asphalt pavement (5 years' maintenance).

Time allowed, 40 working days. Security required, $4,000.

NO. 4. FOR REGULATING AND PAVING WITH PRELIMINARY ASPHALT PAVEMENT ON A 5-INCH CONCRETE FOUNDATION THE ROADWAY OF EAST 19TH ST., FROM AVE. L TO AVE. M.

The Engineer's estimate is as follows:

730 cu. yds. excavation to subgrade.

35 lin. ft. bluestone heading stones set in concrete.

455 cu. yds. concrete.

3,205 sq. yds. asphalt pavement (5 years' maintenance).

Time allowed, 30 working days. Security required, $1,500.

NO. 5. FOR REGULATING, GRADING, CURBING, LAYING SIDEWALKS AND PAVING WITH PRELIMINARY ASPHALT PAVEMENT ON A 5-INCH CONCRETE FOUNDATION THE ROADWAY OF EAST 39TH ST., FROM AVE. I TO AVE. K.

The Engineer's estimate is as follows:

950 cu. yds. excavation.

40 cu. yds. fill (not to be bid for).

240 lin. ft. old curbstone reset in concrete.

35 lin. ft. bluestone heading stones set in concrete.

2,570 lin. ft. steel-bound cement curb (1 year maintenance).

7,770 sq. ft. cement sidewalks (1 year maintenance).

7,770 sq. ft. 6-inch cinder or gravel sidewalk foundation.

655 cu. yds. concrete.

4,710 sq. yds. asphalt pavement (5 years' maintenance).

Time allowed, 40 working days. Security required, $3,100.

NO. 6. FOR REGULATING, GRADING, CURBING, LAYING SIDEWALKS AND PAVING WITH PRELIMINARY ASPHALT PAVEMENT ON A 5-INCH CONCRETE FOUNDATION THE ROADWAY OF HEMLOCK ST., FROM GLENMORE AVE. TO PITKIN AVE.

The Engineer's estimate is as follows:

240 cu. yds. excavation.

50 cu. yds. fill (not to be bid for).

20 lin. ft. old curbstone reset in concrete.

620 lin. ft. steel-bound cement curb (1 year maintenance).

1,380 sq. ft. cement sidewalks (1 year maintenance).

1,380 sq. ft. 6-inch cinder or gravel sidewalk foundation.

192 cu. yds. concrete.

1,380 sq. yds. asphalt pavement (5 years' maintenance).

Time allowed, 30 working days. Security required, $1,000.

NO. 7. FOR REGULATING AND PAVING WITH PRELIMINARY ASPHALT PAVEMENT ON A 5-INCH CONCRETE FOUNDATION THE ROADWAY OF HOPKINSON AVE., FROM BLAKE AVE. TO DUMONT AVE.

The Engineer's estimate is as follows:

560 cu. yds. excavation to subgrade.

350 cu. yds. concrete.

2,515 sq. yds. asphalt pavement (5 years' maintenance).

Time allowed, 25 working days. Security required, $1,200.

NO. 8. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON KINGS HIGHWAY, FROM CONEY ISLAND AVE. TO EAST 16TH ST.

The Engineer's estimate is as follows:

760 cu. yds. excavation.

50 cu. yds. fill (not to be bid for).

20 lin. ft. old stone curb reset in concrete.

1,940 lin. ft. new stone curb set in concrete.

3,660 sq. ft. cement sidewalks (1 year maintenance).

3,660 sq. ft. 6-inch cinder or gravel sidewalk foundation.

5 sewer basins rebuilt.

Time allowed, 30 working days. Security required, $1,000.

NO. 9. FOR REGULATING AND PAVING WITH PRELIMINARY ASPHALT PAVEMENT ON A 5-INCH CONCRETE FOUNDATION THE ROADWAY OF ROBINSON ST., FROM BEDFORD AVE. TO ROGERS AVE.

The Engineer's estimate is as follows:

735 cu. yds. excavation to subgrade.

405 cu. yds. concrete.

2,900 sq. yds. asphalt pavement (5 years' maintenance).

Time allowed, 25 working days. Security required, $1,400.

NO. 10. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON WEST 15TH ST., FROM NEPTUNE AVE. TO CANAL AVE.

The Engineer's estimate is as follows:

50 cu. yds. excavation.

2,840 cu. yds. fill to be furnished.

90 lin. ft. old stone curb reset in concrete.

1,370 lin. ft. steel-bound cement curb (1 year maintenance).

7,080 sq. ft. cement sidewalks (1 year maintenance).

7,080 sq. ft. 6-inch cinder or gravel sidewalk foundation.

Time allowed, 40 working days. Security required, $1,000.

NO. 11. FOR REGULATING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF WEST 37TH ST., FROM MERMAID AVE. TO SURF AVE.

The Engineer's estimate is as follows:

375 cu. yds. excavation to subgrade.

145 lin. ft. bluestone heading stones set in concrete.

250 cu. yds. concrete.

1,495 sq. yds. asphalt pavement (5 years' maintenance).

Time allowed, 25 working days. Security required, $800.

NO. 12. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON 7TH AVE., FROM 60TH ST. TO 65TH ST.

The Engineer's estimate is as follows:

870 cu. yds. excavation.

40 cu. yds. fill (not to be bid for).

10 lin. ft. old stone curb reset in concrete.

1,700 lin. ft. steel-bound cement curb (1 year maintenance).

8,090 sq. ft. cement sidewalks (1 year maintenance).

8,090 sq. ft. 6-inch cinder or gravel sidewalk foundation.

Time allowed, 30 working days. Security required, $800.

NO. 13. FOR REGULATING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF 57TH ST., FROM NEW UTRECHT AVE. TO 14TH AVE.

The Engineer's estimate is as follows:

340 cu. yds. excavation to subgrade.

40 lin. ft. bluestone heading stones set in concrete.

225 cu. yds. concrete.

1,355 sq. yds. asphalt pavement (5 years' maintenance).

Time allowed, 25 working days. Security required, $700.

NO. 14. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON 72ND ST., FROM 10TH AVE. TO 11TH AVE.

The Engineer's estimate is as follows:

300 cu. yds. excavation.

10 cu. yds. fill (not to be bid for).

20 lin. ft. old stone curb reset in concrete.

1,440 lin. ft. steel-bound cement curb (1 year maintenance).

5,410 sq. ft. cement sidewalks (1 year maintenance).

5,410 sq. ft. 6-inch cinder or gravel sidewalk foundation.

Time allowed, 30 working days. Security required, $500.

NO. 15. FOR REGULATING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF 72ND ST., FROM 10TH AVE. TO 11TH AVE.

The Engineer's estimate is as follows:

610 cu. yds. excavation to subgrade.

30 lin. ft. bluestone heading stones set in concrete.

405 cu. yds. concrete.

2,440 sq. yds. asphalt pavement (5 years' maintenance).

Time allowed, 30 working days. Security required, $1,200.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per lin. ft., sq. ft., sq. yd., cu. yd. or other unit of measure, by which the bids will be tested.

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

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Highways, the Borough of Brooklyn, Room 502, No. 50 Court Street, Brooklyn.

L. H. POUNDS, President.

Dated June 28th, 1915. jy1,14

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

SUPREME COURT — FIRST DEPARTMENT.

Filing Final Reports.

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, tenements and hereditaments required for the opening and extending of EAST 218TH STREET, from White Plains Road to Oakley Street, in the 24th Ward, Borough of The Bronx, City of New York.

NOTICE IS HEREBY GIVEN THAT THE final reports of the Commissioners of Estimate and of the Commissioner of Assessment in the above-entitled matter will be presented for confirmation to the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part I, to be held in the County Court House in the Borough of Manhattan, in The City of New York, on the 7th day of July, 1915, at 10.15 o'clock in forenoon of that day; and that the said final reports have been deposited in the Office of the Clerk of the County of Bronx, East 161st Street and 3rd Avenue, there to remain for and during the space of five days, as required by law.

Dated, New York, June 28th, 1915.

EDWARD D. DOWLING, FREDERICK C. HUNTER, H. ADOLPH WINKOOP, Commissioners of Estimate. EDWARD D. DOWLING, Commissioner of Assessment.

Dated, New York, June 28th, 1915.

JOEL J. SQUIER, Clerk. j28,jy2

Filing Bill of Costs.

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, tenements and hereditaments required for the opening and extending of WEST 180TH STREET, from Aqueduct Avenue to Osborne Place, in the 24th Ward, Borough of The Bronx, City of New York.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter will be presented for taxation to one of the Justices of the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part I, to be held at the County Court House in the Borough of Manhattan, in The City of New York, on the 14th day of July, 1915, 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 New York, there to remain for and during the space of ten days, as required by law.

Dated, New York, June 28th, 1915.

GEORGE B. HAYES, HARRY A. COKELEY, THEODORE E. DEMMERLE, Commissioners of Estimate. GEORGE B. HAYES, Commissioner of Assessment.

JOEL J. SQUIER, Clerk. j28,jy9

FIRST DEPARTMENT.

In the Matter of the Application of the Mayor, Aldermen and Commonalty of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to the lands, tenements and hereditaments required for the purpose of opening MORRIS AVENUE (although not yet named by proper authority), from the east side of the New York and Harlem Railroad to the Grand Boulevard and Concourse, as the same has been heretofore laid out and designated as a first class street or road, in the Twenty-third and Twenty-fourth Wards of The City of New York.

In re application for damages to certain lots designated as Nos. 226, 267, 268, 283, 285, 355 and 356 on a map filed in the office of the Register of the County of Westchester on or about the 13th day of December, 1859, and entitled "Highbridge Association Map of the Village of Mt. Eden, near Upper Morrisania Depot, in the Town of West Farms, Westchester County, New York, 1853. The property of Mr. Thomas Woolf and Brothers," by reason of the closing, discontinuance and abandonment of Walnut street in front of said premises.

NOTICE IS HEREBY GIVEN THAT THE supplemental and additional bill of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter will be presented for taxation to one of the Justices of the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part I, to be held at the County Court House, in the Borough of Manhattan, in The City of New York, on the 12th day of July, 1915, at 10 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 New York, there to remain for and during the space of ten days, as required by law.

Dated, New York, June 26th, 1915.

LORENZO S. PALMER, DANIEL J. CASSIDY, ANTHONY J. McNALLY, Commissioners of Estimate and Assessment.

JOEL J. SQUIER, Clerk. j26,jy8

Filing Preliminary Abstracts.

FIKST 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 widening of SEDGWICK AVENUE, between Fordham Road and Bailey Avenue; of BAILEY AVENUE, between Sedgwick Avenue and Albany Road; of ALBANY ROAD, between Bailey Avenue and Van Cortlandt Park, and for the opening and extending of HEATH AVENUE, between West One Hundred and Eighty-ninth Street and West One Hundred and Ninety-first Street; of the PUBLIC PLACE, between Heath Avenue and Bailey Avenue, south of West One Hundred and Ninety-first Street, and the lands and premises required for the widening of KINGSBRIDGE ROAD, between Exterior Street and Bailey Avenue, as amended by order of this Court bearing date the 4th day of November, 1909, and entered in the office of the Clerk of the County of New York on the 6th day of November, 1909, by including therein certain additional lands required and also by excluding therefrom certain lands not required, in the 24th Ward, Borough of The Bronx, City of New York.

NOTICE IS HEREBY GIVEN TO ALL PERsons interested in the above entitled proceeding, and to the owner or owners, occupant or occupants of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First.—That the undersigned, Commissioners of Estimate, have completed their supplemental and amended estimate of damage, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with them at their office, Room 1557, 15th Floor, Municipal Building, Chambers and Centre Streets, in the Borough of Manhattan, in The City of New York, on or before the 3rd day of July, 1915, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 7th day of July, 1915, at 1 o'clock P. M.

Second.—That the undersigned, Commissioner of Assessment, has completed his supplemental and additional estimate of benefit and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with him at his office, Room 1557, 15th Floor, Municipal Building, Chambers and Centre Streets, in the Borough of Manhattan, in The City of New York, on or before the 3rd day of July, 1915, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 8th day of July, 1915, at 1.30 o'clock P. M.

Third.—That the Commissioner of Assessment has assessed any or all such lands, tenements and hereditaments and premises as are within the area of assessment fixed and prescribed as the area of assessment for benefit by the Board of Estimate and Apportionment on the 8th day of February, 1907, 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 the intersection of the prolongation of a line 100 feet south of the southerly side of East One Hundred and Eighty-first street and parallel therewith, with the easterly bulkhead line of the Harlem River, and running thence northwardly along the said easterly line of the Harlem River to the intersection with a line midway between Broadway and Exterior street; thence northeastwardly along the said line midway between Broadway and Exterior street to the northerly side of Kingsbridge road; thence northwardly at right angles to the line of the Kingsbridge road 100 feet; thence eastwardly and parallel with the Kingsbridge road to the easterly line of the land of the New York and Putnam Railway; thence northwardly and along the said easterly line of the New York and Putnam Railway to the intersection with a line distant 100 feet north of and parallel with the southerly line of Van Cortlandt Park, the said distance being measured at right angles to the said southerly line of Van Cortlandt Park; thence easterly and parallel with the southerly line of Van Cortlandt Park to the intersection with the prolongation of a line midway between Gouverneur avenue and Norman avenue; thence southwestwardly along the said line midway between Gouverneur avenue and Norman avenue and the prolongation of the said line to the intersection with the centre line of Sedgwick avenue; thence southwestwardly to a point on the southwesterly side of Kingsbridge road where the same is intersected by a line 100 feet northwest of and parallel with the northwesterly line of Aqueduct avenue, the said distance being measured at right angles to the line of Aqueduct avenue; thence southwestwardly and always distant 100 feet northwestwardly from the northwesterly line of Aqueduct avenue and along the prolongation of the said line to the intersection with the southerly line of East One Hundred and Eighty-first street; thence southwestwardly at right angles to East One Hundred and Eighty-first street 100 feet; thence northwestwardly and westwardly and always parallel with the southerly line of East One Hundred and Eighty-first street, and 100 feet distant therefrom, to the point or place of beginning.

Fourth.—That the abstracts of said supplemental and amended estimate of damage and of said supplemental and additional 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 7th day of July, 1915.

Fifth.—That, provided there be no objections filed to either of said supplemental, amended and additional abstracts, the supplemental, amended and additional 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 14th day of October, 1915, at the opening of the Court on that day.

Sixth.—In case, however, objections are filed to the foregoing supplemental, amended and additional abstracts of estimate and assessment, or to either of them, the motion to confirm the supplemental, amended and additional 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, June 17th, 1915.

GEORGE VON SKAL, STEPHEN J. NAVIN, JR., Commissioners of Estimate. STEPHEN J. NAVIN, JR., Commissioner of Assessment.

JOEL J. SQUIER, Clerk. j22,jy2

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, 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 24th Ward, Borough of The Bronx, City of New York, as amended and corrected by an order of the Supreme Court, First Department, dated December 10, 1914, and entered in the office of the Clerk of the County of Bronx on December 14, 1914, 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 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; 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.

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, Room 1557, 15th Floor, Municipal Building, Chambers and Centre Streets, in the Borough of Manhattan, in The City of New York, on or before the 7th day of July, 1915, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 9th day of July, 1915, at 2.30 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, Room 1557, 15th Floor, Municipal Building, Chambers and Centre Streets, in the Borough of Manhattan, in The City of New York, on or before the 7th day of July, 1915, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 12th day of July, 1915, at 2.30 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 26th day of June, 1914, and that the said amended 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 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 southwardly 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.

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, Room 1529, 15th Floor, Municipal Building, Chambers and Centre Streets, in the Borough of Manhattan, in said City, there to remain until the 9th day of July, 1915.

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 15th day of October, 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, June 14, 1915.

JOHN J. HYNES, Chairman; ELY NEUMANN, MARTIN C. DYER, Commissioners of Estimate; ELY NEUMANN, Commissioner of Assessment.

JOEL J. SQUIER, Clerk. j17,jy3

SUPREME COURT — SECOND DEPARTMENT.

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 and premises required for the opening and extending of NEWTOWN AVENUE (although not yet named by proper authority), from Flushing Avenue to Grand 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, to be held for the hearing of motions, at the County Court House in the Borough of Brooklyn, in The City of New York, on the 15th day of July, 1915, at 10 o'clock in the forenoon of that day, or as soon thereafter as Counsel can be heard thereon; and that the said supplemental and additional bill of costs, charges and expenses has been deposited in the Office of the Clerk of the County of Queens, there to remain for and during the space of ten days, as required by law.

Dated New York, July 1st, 1915.

GEO. A. GREGG, THEODORE P. WILSNACK, ARTHUR VAN DEWATER, Commissioners of Estimate; GEO. A. GREGG, Commissioner of Assessment.

WALTER C. SHEPPARD, Clerk. jy1,13

Filing Final Reports.

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 acquierd, to the lands, tenements and hereditaments required for the opening and extending of JUNIPER AVENUE (although not yet named by proper authority), from the west side of Grand Street to Metropolitan Avenue, in the Second Ward, Borough of Queens, City of New York, as amended and corrected 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 Queens on the 4th day of October, 1910, so as to conform to the lines of said street 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 shown upon Section 28 of the Final Maps of the Borough of Queens as adopted by the Board of Estimate and Apportionment on

the 15th day of January, 1909, and approved by the Mayor on the 29th day of January, 1909, and as further amended by an order of the Supreme Court, Second Department, dated the 4th day of September 1912, and entered in the Office of the Clerk of the County of Queens on the 9th day of September, 1912, so as to make said Juniper Avenue, between the above mentioned limits relate to the street lines as shown upon the map or plan bearing the signature of the President of the Borough of Queens, dated the 15th day of March, 1911, and adopted by the Board of Estimate and Apportionment on the 15th day of June, 1911.

The land to be acquired in this proceeding is more particularly bounded and described in the petitions attached to the aforesaid orders.

NOTICE IS HEREBY GIVEN THAT THE final report of the Commissioners of Estimate and Assessment in the above entitled matter will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof, for the hearing of motions, to be held at the County Court House in the Borough of Brooklyn, in the City of New York, on the 9th day of July, 1915, at the opening of the Court on that day; and that the said final report has been deposited in the Office of the Clerk of the County of Queens, there to remain for and during the space of five days, as required by law.

Dated New York, July 1st, 1915.

AUGUST REYMERT, PHILIP S. HEUSS, Commissioners.

WALTER C. SHEPPARD, Clerk. jy1,7

Hearings on Qualifications.

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 SMITH STREET, from Brinkerhoff Avenue to Ulster Avenue; BRINKERHOFF AVENUE, from Smith Street to Spangler Street; and SPANGLER STREET, from Brinkerhoff Avenue to Lambertville Avenue, in the 4th Ward, Borough of Queens, City of New York.

NOTICE IS HEREBY GIVEN THAT BY AN order of the Supreme Court of the State of New York, Second Department, bearing date June 17, 1915, and duly entered and filed in the office of the Clerk of the County of Queens on June 18, 1915, WILLIAM W. GILLEN, ROBERT B. LAWRENCE and WILLIAM RASQUIN, Jr., Esqrs., were appointed Commissioners of Estimate in the above-entitled proceeding, and that in and by the said order WILLIAM W. GILLEN, Esq., was appointed the Commissioner of Assessment.

NOTICE IS FURTHER GIVEN that, pursuant to the statutes in such cases made and provided, the said WILLIAM W. GILLEN, ROBERT B. LAWRENCE and WILLIAM RASQUIN, Jr., Esqs., will attend at a Special Term for the hearing of motions, Part I of the Supreme Court of the State of New York, Second Department, to be held at the County Court House, in the Borough of Brooklyn, in The City of New York, on the 8th day of July, 1915, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the purpose of being examined under oath by the Corporation Counsel of The City of New York, or by any other person having any interest in the said proceeding, as to their qualifications to act as such Commissioners.

Dated, New York, June 25th, 1915.

FRANK L. POLK, Corporation Counsel, Municipal Building, Borough of Manhattan, New York City. j25,jy7

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 ROCKAWAY TURNPIKE, from the Conduit to the City Line (Hook Creek), in the Fourth Ward, Borough of Queens, City of New York.

NOTICE IS HEREBY GIVEN THAT BY AN order of the Supreme Court of the State of New York, Second Department, bearing date the 18th day of June, 1915, and duly entered and filed in the office of the Clerk of the County of Queens on the 19th day of June, 1915, LOUIS KNIERIEM, Jr., Esq., was appointed a Commissioner of Estimate in the above-entitled proceeding, in the place and stead of Ferdinand M. Becker, resigned.

NOTICE IS FURTHER GIVEN that, pursuant to the said order, bearing date the 18th day of June, 1915, and duly entered and filed in the office of the Clerk of the County of Queens on the 19th day of June, 1915, the said Louis Knieriem, Jr., Esq., will attend at a Special Term for the hearing of motions, Part I, of the Supreme Court of the State of New York, Second Department, to be held at the County Court House, in the Borough of Brooklyn, in The City of New York, on the 8th day of July, 1915, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the purpose of being examined under oath by the Corporation Counsel of The City of New York, or by any other person having any interest in said proceeding, as to his qualifications to act as such Commissioner.

Dated, New York, June 25th, 1915.

FRANK L. POLK, Corporation Counsel, Municipal Building, Borough of Manhattan, New York City. j25,jy7

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 PLAYGROUND within the area bounded by Douglass Street, Dumont Avenue, Hopkinson Avenue, Blake Avenue, Bristol Street, Dumont Avenue, Hopkinson Avenue and Livonia Avenue, in the 26th and 32nd Wards, 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 14th day of July, 1915, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 15th day of July, 1915, 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 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 14th day of July, 1915, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 16th day of July, 1915, at 2 o'clock P. 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 31st day of July, 1913, and that the said 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 Utica avenue and Rochester avenue where it is intersected by a line midway between Sterling Place and St. John's place, and running thence eastwardly along the said line midway between Sterling place and St. John's place to the intersection with a line midway between Rochester avenue and Buffalo avenue; thence northwardly along the said line midway between Rochester avenue and Buffalo avenue to the intersection with a line midway between Prospect place and Park place; thence eastwardly along the said line midway between Prospect place and Park place to the intersection with a line midway between Buffalo avenue and Ralph avenue; thence northwardly along the said line midway between Buffalo avenue and Ralph avenue to the intersection with a line midway between Bergen street and St. Marks avenue; thence eastwardly along the said line midway between Bergen street and St. Marks avenue to the intersection with a line midway between Ralph avenue and Howard avenue; thence northwardly along the said line midway between Ralph avenue and Howard avenue to the intersection with a line midway between Pacific street and Dean street; thence eastwardly along the said line midway between Pacific street and Dean street to the intersection with a line midway between Howard avenue and Saratoga avenue; thence northwardly along the said line midway between Howard avenue and Saratoga avenue to the intersection with a line midway between Atlantic avenue and Herkimer street; thence eastwardly along the said line midway between Atlantic avenue and Herkimer street to the intersection with a line midway between Eastern Parkway and Sackman street; thence southwardly along the said line midway between Eastern Parkway and Sackman street as these streets are laid out northerly from Atlantic avenue, and along the prolongation of the said line to the intersection with a line midway between Pacific street and Dean street; thence eastwardly along the said line midway between Pacific street and Dean street and along the prolongation of the said line to the intersection with the prolongation of a line midway between Powell street and Junius street; thence southwardly along the said line midway between Powell street and Junius street and along the prolongation of the said line to the intersection wtih a line bisecting the angle formed by the intersections of the prolongations of the southerly line of East New York avenue and the northerly line of Liberty avenue, as these streets are laid out between Powell street and Junius street; thence eastwardly along the said bisecting line to the intersection with a line midway between Hinsdale street and Snediker avenue; thence southwardly along the said line midway between Hinsdale street and Snediker avenue to the intersection with a line midway between Liberty avenue and Glenmore avenue; thence eastwardly along the said line midway between Liberty avenue and Glenmore avenue to the intersection with a line midway between Williams avenue and Alabama avenue; thence southwardly along the said line midway between Williams avenue and Alabama avenue to the intersection with a line midway between Glenmore avenue and Pitkin avenue; thence eastwardly along the said line midway between Glenmore avenue and Pitkin avenue to the intersection with a line midway between Alabama avenue and Georgia avenue; thence southwardly along the said line midway between Alabama avenue and Georgia avenue to the intersection with a line midway between Pitkin avenue and Belmont avenue; thence eastwardly along the said line midway between Pitkin avenue and Belmont avenue to the intersection with a line midway between Georgia avenue and Sheffield avenue; thence southwardly along the said line midway between Georgia avenue and Sheffield avenue to the intersection with a line midway between New Lots avenue and Hegeman avenue; thence westwardly along the said line midway between New Lots avenue and Hegeman avenue as these streets are laid out easterly from Malta street, and along the prolongation of the said line to the intersection with a line midway between Hinsdale street and Williams avenue; thence southwardly along the said line midway between Hinsdale street and Williams avenue to the intersection with a line midway between Hegeman avenue and Vienna avenue; thence westwardly along the said line midway between Hegeman avenue and Vienna avenue to the intersection with a line midway between Snediker avenue and Van Sinderen avenue; thence southwardly along the said line midway between Snediker avenue and Van Sinderen avenue to the intersection with the prolongation of a line between Avenue D and Foster avenue; thence southwestwardly along the said line midway between Avenue D and Foster avenue and along the prolongation of the said line to the intersection with a line midway between East 95th street and East 96th street; thence northwestwardly along the said line midway between East 95th street and East 96th street to the intersection with the northerly property line of the Manhattan Beach Division of the Long Island Railroad; thence southwestwardly along the said property line to the intersection with a line midway between East 92nd street and East 93rd street; thence northwestwardly along the said line midway between East 92nd street and East 93rd street to the intersection with a line midway between Avenue B and Ditmas avenue; thence southwestwardly along the said line midway between Avenue B and Ditmas avenue to the intersection with a line midway between East 89th street and Remsen avenue; thence northwestwardly along the said line midway between East 89th street and Remsen avenue to the intersection with a line midway between avenue A and avenue B; thence southwestwardly along the said line midway between avenue A and avenue B to the intersection with a line midway between East 87th street and 88th street; thence northwestwardly along the said line midway between East 87th street and East 88th street and along the prolongation of the said line to the intersection with the prolongation of a line midway between Snider avenue and Tilden avenue; thence westwardly along the said line midway between Snider avenue and Tilden avenue and along the prolongation of the said line to the intersection with a line midway between East 57th street and East 58th street; thence northwardly along the said line midway between East 57th street and East 58th street to the intersection with the prolongation of a line midway between Church avenue and Snider avenue as these streets are laid out between East 56th street and East 57th street; thence westwardly along the said line midway between Church avenue and Snider avenue and along the prolongation of the said line to the intersection with a line midway between East 54th street and East 55th street; thence northwardly along the said line midway between East 54th street and East 55th street to the intersection with a line midway between Linden avenue and Church avenue as these streets are laid out between East 54th street and East 55th street; thence westwardly along the said line midway between Linden avenue and Church avenue and along the prolongation of the said line to the intersection with a line midway between East 52nd street and East 53rd street; thence northwardly along the said line midway between East 52nd street and East 53rd street to the intersection with a line midway between Lenox avenue and Linden avenue; thence westwardly along the said line midway between Lenox avenue and Linden avenue to the intersection with a line midway between Utica avenue and East 51st street; thence northwardly along the said line midway between Utica avenue and East 51st street to the intersection with a line midway between Winthrop street and Clarkson avenue; thence westwardly along the said line midway between Winthrop street and Clarkson avenue to the intersection with a line midway between Schenectady avenue and Utica avenue; thence northwardly and always midway between Schenectady avenue and Utica avenue to the intersection with a line midway between Union street and President street; thence eastwardly along the said line midway between Union street and President street to the intersection with a line midway between Utica avenue and Rochester avenue; thence northwardly along the said line midway between Utica avenue and Rochester 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 25th day of July, 1915.

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 26th day of August, 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, June 25th, 1915.

ANDREW C. TROY, CHRISTOPHER C. MOLLENHAUER, FREDERICK W. SPARKS, Commissioners of Estimate. CHRISTOPHER C. MOLLENHAUER, Commissioner of Assessment. j25,jy13

NOTICE TO BIDDERS AT SALES OF OLD BUILDINGS, ETC.

TERMS AND CONDITIONS UNDER WHICH BUILDINGS, ETC., WILL BE SOLD FOR REMOVAL FROM CITY PROPERTY.

THE BUILDINGS AND APPURTENANCES thereto will be sold to the highest bidder, who must pay cash or certified check, drawn to the order of the Comptroller of The City of New York, and must also give a certified check or cash in half the amount of the purchase price as security for the faithful performance of the terms and conditions of the sale. Where the amount of the purchase price does not equal or exceed the sum of $50, the sum of $50 shall be the amount of the security to be deposited. This security may at any time after the expiration of the contract period be applied by the City to the cost of completing any of the work required under the contract, but unfinished at the expiration of the contract period.

The purchaser shall not lease, occupy, cause or permit the building or buildings, etc., purchased by him to be used or occupied for any purpose other than that of their speedy removal, nor shall he collect any rental or other revenue for the use of either the land or the buildings, etc., situated thereon. The breach of either or any of these conditions shall forthwith void the sale and cause immediate forfeiture of the purchase money and the security deposited for the faithful performance of the conditions of the sale. The placing therein or permitting the occupancy of any such 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 moneys paid by said purchaser on account thereof at the time of the sale, and the bidder's assent to the above conditions being understood to be implied by the act of bidding, and The City of New York will, without notice to the purchaser, cause the same to be removed, and the cost and expense thereof charged against the security above mentioned.

The work of removal must be carried on in every respect in a thorough and workmanlike manner, and must be completed within thirty days from the day of possession, and the successful bidder will provide and furnish all materials of labor and machinery necessary thereto, and will place proper and sufficient guards and fences and warning signs by day and night for the prevention of accidents, and will indemnify and save harmless The City of New York, its officers, agents and servants, and each of them, against any and all suits and actions, claims and demands of every name and description brought against it, them or any of them, and against and from all damage and costs to which it, they or any of them be put by reason of injury to the person or property of another, resulting from negligence or carlessness 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, protecting 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 holes, etc., bricked up, and the wall pointed and made to exclude wind and rain and present a clean exterior. The roofs and adjacent buildings shall be properly flashed and painted and made watertight where they have been disturbed by the operations of the Contractor.

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 is, shall be or become interested, directly or indirectly, as contracting party, partner, stockholder, surety or otherwise in or in the performance of the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate that the several matters stated herein are in all respects true.

No bid or estimate will be considered unless, as a condition precedent to the reception or consideration of any proposal, it be accompanied by a certified check upon one of the State or National banks of The City of New York, drawn to the order of the Comptroller, or money or corporate stock or certificates of indebtedness of any nature issued by The City of New York, which the Comptroller shall approve as of equal value with the security required in the advertisement to the amount of not less than three nor more than five per centum of the amount of the bond required, as provided in section 420 of the Greater New York Charter.

The amount shall be as specified in the proposals or instructions to bidders and shall not be in excess of 5 per cent.

The certified check or money should not be inclosed in the envelope containing the bid or estimate, but should be either inclosed in a separate envelope addressed to the head of the Department, President or Board, or submitted personally upon the presentation of the bid or estimate.

For particulars as to the quantity and quality of the supplies, or the nature and extent of the work, reference must be made to the specifications, schedules, plans, etc., on file in the said office of the President, Board or Department.

No bid shall be accepted from or contract awarded to any person who is in arrears to The City of New York upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation 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.