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THE CITY RECORD.

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JOHN PURROY MITCHEL, MAYOR.

LAMAR HARDY, CORPORATION COUNSEL.

WILLIAM A. PRENDERGAST, COMPTROLLER.

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BOARD OF ESTIMATE AND APPORTIONMENT.

Notice of Public Hearing.

Public Hearing on the Question of the Collection and Disposal of Trade Waste.

PUBLIC NOTICE IS HEREBY GIVEN that the Board of Estimate and Apportionment will hold a public hearing on WEDNESDAY, JUNE 21, 1916, at 2.30 o'clock p. m., in Room 16, City Hall, Borough of Manhattan, on the question of the collection and disposal of trade waste, as set forth in the report of the Commissioner of Street Cleaning, dated April 25, 1916, which report was presented to the Board on May 12, 1916 (Cal. No. 80).

The report of the Commissioner of Street Cleaning referred to herein appears in the minutes of the meeting of the Board of Estimate and Apportionment held on May 12, 1916. (See City Record of Tuesday, May 23, 1916, page 3888.)

Dated June 1, 1916.

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

MUNICIPAL CIVIL SERVICE COMMISSION.

Eligible Lists—Promulgated May 31, 1916.

Nurse, Female.

- Myrtle A. Rose, 429 E. 64th st., 96.20.
- Juel A. Dillon, 608 W. 139th st., 93.60.
- Florentine M. Ryan, 1654 Eighty-fourth st., Brooklyn, 91.
- Mida S. Arthur, 1867 Seventh ave., 90.80.
- Jane McDermott McCabe, L. I. College Hospital, Brooklyn, 90.20.
- A. Marie Wehe, 580 E. 165th st., 90.
- Gertrude A. Natteford, 405 Clermont ave., Brooklyn, 89.80.
- Aline L. Adrot, 16 Palmer ave., Port Richmond, 89.60.
- Laura P. Vogel, 152 Sherman ave., care of Berrien, 89.40.
- Hannah O'Connell, 232 W. 22nd st., 89.20.
- Mary Costin, 156 W. 106th st., 89.
- Florence A. Gates, 363 W. 123rd st., 88.80.
- Ivy M. Coulson, 45 W. 111th st., 88.80.
- Mary J. Connolly, 34 Jefferson ave., Brooklyn, 88.60.
- Mary C. McGinn, 1015 Eighty-sixth st., Brooklyn, 88.
- Angela D. S. Pray, 2140 Honeywell ave., Bronx, 87.60.
- Anna Polak, 911 E. 176th st., Bronx, 87.60.
- Winifred Wight, 550 Riverside Drive, 87.40.
- Margt. B. Aikman, 2538 Gates ave., Brooklyn, 87.20.
- Marie Moss, 117 Fulton ave., Astoria, 87.
- Madeline G. Martin, 169 Albany ave., Brooklyn, 86.80.
- May L. Landon, 28 W. 94th st., 86.20.
- Eliz. M. Furlong, 429 W. 124th st., 86.
- Eleanor Wilson, Junior League Hotel, 85.80.
- Mabel D. Holden, 551 Seventy-fifth st., Brooklyn, 85.60.
- Eva M. Ryan, 213 Lafayette ave., Brooklyn, 85.60.
- Ina L. Korts, 20 W. 94th st., 85.60.
- Ida M. McGowan, 145 W. 12th st., 84.80.
- Mary G. MacPherran, 141 E. 26th st., 84.80.
- Sara Klinghoffer, 326 W. 113th st., 84.60.
- Teresa Stokes, City Hospital, Blackwell's Island, 84.40.
- E. Bertha Smith, 301 E. 85th st., 84.20.
- Frances J. Galena, 97 Flushing ave., Astoria, 84.20.
- Helen M. Lyons, 74 Judge st., Elmhurst, 84.
- Mary J. McN. Brown, 420 W. 146th st., 83.80.
- Cora F. West, 106 W. 61st st., 83.60.
- Julia V. Neill, 102 S. Oxford st., Brooklyn, 83.60.

- Helen V. Kenney, L. I. College Hospital, Brooklyn, 83.60.
- Mary E. McGowan, Gouverneur Hospital, 83.40.
- Rose A. McGowan, Gouverneur Hospital, 83.40.
- Maud Meader, Quarantine Station, Hoffman Island, Rosebank, S. I., 83.40.
- Rose A. O'Brien, Metropolitan Training School, Blackwell's Island, 83.40.
- Catharine Winters, Kings County Hospital, Brooklyn, 83.40.
- Mabel F. Martin, 1089 E. 18th st., Brooklyn, 83.20.
- Orma R. Honetor, 6 W. 107th st., 83.
- Mary A. Gorman, 229 W. 105th st., 83.
- Eliz. Hughes, Manhattan State Hospital, Ward's Island, 83.
- Pauline B. C. Bernstein, 33 Pulaski st., Middle Village, L. I., 82.80.
- Anna B. Seery, 996 Herkimer st., Brooklyn, 82.40.
- Regina H. Johnson, 52 Seventh ave., New Brighton, 82.40.
- Lucy V. Meeney, 176 Taylor st., Brooklyn, 82.20.
- Anna Croxson, 500 W. 122nd st., care of B. L. Phelps, 82.
- Dorothy H. Tyler, 122 Sterling pl., Brooklyn, 82.
- Gladys E. Gardner, 497 Third st., Brooklyn, 81.80.
- Mary C. Donovan, 143 W. 21st st., 81.80.
- Mary F. M. Volkman, 448 W. 167th st., 81.80.
- Ella M. Kinney, 2619 Bedford ave., Brooklyn, 81.80.
- Mildred E. Pritchard, 8 W. 93d st., 81.60.
- Edna I. Morris, 2122 Sixty-sixth st., Brooklyn, 81.40.
- Leonora L. Hogarth, 7 Gramercy Park, 81.
- Esther N. Behr, 215 Ninety-seventh st., Brooklyn, 81.
- Eliz. Watson, Riverside Hospital, 81.
- Mary Geib, 3952 Fulton st., Woodhaven, 81.
- Jeanette Morrison, 443 Central Park West, 80.80.
- Eliz. Pines, 855 E. 172nd st., Bronx, 80.60.
- Fabiola C. Burke, 2361 Cornelia st., Brooklyn, 80.60.
- Madge H. Hagerman, Lincoln Nurses Home, 186 W. 135th st., 80.40.
- Katherine E. Speer, 270 East Broadway, Jewish Maternity Hospital, 80.20.
- Lucy H. Hunt, 159 W. 168th st., 80.20.
- Jennie Z. B. Epstein, 727 Prospect ave., Bronx, 80.20.
- Mary E. Costello, 300 E. 162nd st., Bronx, 80.20.
- Mary M. Savine, 369 Steinway ave., L. I. City, 79.80.
- Laura A. Eckman, Metropolitan Training School, Blackwells Island, 79.60.
- Lillian M. Begley, Riverside Hospital, 79.40.
- Marg't A. Lynch, 136 Decatur st., Brooklyn, 79.20.
- Irene A. Sutherland, 3694 Broadway, care Gannon, 79.20.
- Marg't M. Richardson, Gouverneur Hospital, 79.
- Julia A. Kaufman, 440 E. 26th st., 79.
- Rose T. Donnelly, 50 Central Park West, care McAuliffe, 78.80.
- Jane M. Gorman, 229 W. 105th st., 78.80.
- Irma B. Korn, 102 S. Oxford st., Brooklyn, 78.60.
- Grace C. Peterson, 8 W. 16th st., 78.60.
- Louella C. Busch, 128 Bradhurst ave., 78.60.
- Lydia M. Soderstrom, 1144 E. 37th st., Brooklyn, 78.40.
- Florence V. De Laney, 199 Baltic st., Brooklyn, 78.40.
- Charlotte Karp, 640 Riverside Drive, 78.20.
- Elsie C. Zellenka, 1816 Seventy-fourth st., Brooklyn, 77.80.
- Marg't G. Medley, 14 Schenectady ave., Brooklyn, 77.20.
- Lillian V. Drybulska, Metropolitan Training School, Blackwells Island, 77.20.
- Myrtle A. Hawkes, Metropolitan Hospital, 76.80.
- Esther Ashewitz, 982 Aldus st., Bronx, 76.60.
- Anna M. Taylor, 362 St. Nicholas ave., 76.60.
- Hannah F. McGloin, 455 E. 34th st., Brooklyn, 76.60.
- Lulu M. Webber, 122 Putnam ave., Brooklyn, 76.60.
- Mary E. Gallagher, 143 W. 90th st., 76.40.
- Mary A. Patterson, 300 W. 111th st., 76.20.
- Maria T. Noydi, 510 F. 77th st., 75.60.
- Edith I. Rosenthal, 606 St. Marks ave., Brooklyn, 75.60.
- Anna C. Tunison, Williamsburgh Hospital, Brooklyn, 75.
- Mary L. O'Neill, No. 259 Midwood st., Brooklyn, 74.20.
- Emma M. Schutte, Jewish Hospital, Brooklyn, 72.20.

Promotion to Stationary Engineer, Electric Pumping Station, Office of the Chief Engineer, Water Supply.

Manhattan—

- William H. Jennings, 28 E. 198th st., 82.16.

Brooklyn—

- William Schwaner, Jr., 59 Weldon st., Brooklyn, 81.
- Robert J. Patterson, Scranton ave., Lynbrook, L. I., 80.10.
- Andrew J. Crowley, 407 Chestnut st., Brooklyn, 80.
- Luke Scally, 1415 E. 9th st., Brooklyn, 75.25.

Promotion to Clerk, Second Grade, Department of Water Supply, Gas and Electricity.

Bureau of Audit—

- William E. Rogers, 336 Woodland ave., Woodhaven, L. I., 79.35.
- Clarence F. Schiereck, 1732 Zerega ave., 78.73.

Bureau of Gas and Electricity (Lamps and Lighting)—Manhattan—

- Melville M. Murnane, 61 Morton st., 82.40.
- Abraham L. Popper, 164 Stanton st., 82.31.
- Peter J. Farrell, 254 Adelphi st., Brooklyn, 75.75.
- Daniel J. Traynor, 167 E. 113th st., 75.35.
- Abraham M. Birnbaum, 5 St. Mark's pl., 75.30.
- James J. Haley, 927 E. 15th st., Brooklyn, 73.60.

Bureau of Gas and Electricity (Lamps and Lighting)—The Bronx—

- Samuel Goldstein, 65 Ludlow st., 81.40.

Bureau of Gas and Electricity (Lamps and Lighting)—Queens—

- Abraham Turkeltaub, 116 Amboy st., Brooklyn, 79.11.
- Harold E. Peterson, 52 Willett st., Jamaica, 75.48.

APPROVED PAPERS.

FOR THE PERIOD ENDING JUNE 3, 1916.

No. 221.

Resolution for Special Revenue Bonds, \$1,500, for Repairs to the Storm Water Culvert Across Richmond Turnpike.

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 five hundred dollars (\$1,500), the proceeds whereof to be used by the President of the Borough of Richmond for the purpose of repairing the storm water culvert across Richmond Turnpike.

All obligations hereunder to be incurred on or before December 31, 1916.

Adopted by the Board of Aldermen May 2, 1916.

Received from his Honor the Mayor May 16, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 222.

An Ordinance Providing for an Issue of Corporate Stock of The City of New York to an Amount Not Exceeding One Hundred and Twenty-five Thousand Dollars (\$125,000), to Provide Means for the Construction and Equipment of a New Boiler House and Heating Plant, Including Sea Wall, at Willard Parker Hospital, Under the Jurisdiction of the Department of Health.

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 fol-

lowing resolution, adopted by the Board of Estimate and Apportionment March 31, 1916, 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 and twenty-five thousand dollars (\$125,000) to provide means for the construction and equipment of a new boiler house and heating plant, including sea wall, at Willard Parker Hospital, under the jurisdiction of the Department of Health, 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 Health, 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, voucher 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.

Adopted by the Board of Aldermen May 2, 1916.

Received from his Honor the Mayor May 16, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 223.

Resolution for Special Revenue Bonds, \$400, for Payment of the Salary of a Switchboard Operator in the City Court.

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 dollars (\$400), the proceeds whereof to be used by the Justices of the City Court for the purpose of the payment of the salary of a Switchboard Operator for the period May 1 to December 31, 1916.

Adopted by the Board of Aldermen May 2, 1916.

Received from his Honor the Mayor May 16, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 224.

Resolution for Special Revenue Bonds, \$183.33, for Payment of Salaries of Temporary Employees in the Office of the Sheriff of Bronx County.

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 hundred and eighty-three dollars and thirty-three cents (\$183.33), the proceeds whereof to be used by the Sheriff of Bronx County for the purpose of payment of salaries of temporary employees:

Temporary Stenographer	\$100 00
Temporary Jail Physician	83 33

Total	\$183 33
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—all obligations hereunder to be incurred on or before December 31, 1916.

Adopted by the Board of Aldermen May 2, 1916.

Received from his Honor the Mayor May 16, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 225.

An Ordinance to Repeal Section 33 of Article 2 of Chapter 15 of the Code of Ordinances, Relating to "Markets," and Particularly to "Willis Avenue Market."

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

Section 1. Section 33 of Article 2, Chapter 15 of the Code of Ordinances, relating to "Markets," and particularly to "Willis Avenue Market," be and the same is hereby repealed, said section reading as follows:

[§33. Willis avenue market.
The lands in the Borough of the Bronx, bounded and described as follows: Beginning at the corner formed by the intersection of the southerly side of East 133rd street and the easterly side of Willis avenue; running thence easterly along the southerly side of East 133rd street 200 feet; running thence southerly and parallel with Willis avenue 200 feet; running thence westerly and parallel with East 133rd street 200 feet, to Willis avenue; running thence northerly on Willis avenue 200 feet to a point or place of beginning, shall be known as Willis avenue market.]

Sec. 2. This ordinance shall take effect immediately.

Adopted by the Board of Aldermen May 2, 1916.

Received from his Honor the Mayor May 16, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 226.

Resolution Requesting Heads of Departments, Etc., to Grant Leave of Absence to All City Employees Who Are Members of the United Spanish War Veterans to Attend Memorial Services on Sunday, May 28.

Whereas, a number of the employees of the City of New York are members of the United Spanish War Veterans, a patriotic organization devoted to the support of government, defence of the flag and honor of the nation; and

Whereas, the annual memorial services of respect and tribute to the soldier and sailor dead will be held at the Navy Yard, at St. Paul's Church in lower Broadway and in other sections of the City on Memorial Sunday, May 28th, 1916; therefore, be it

Resolved, that the heads of all Departments and Bureaus of the City Government be requested to grant leave of absence with pay on said Memorial Sunday to all employees and others who are members of the United Spanish War Veterans, in order that they may participate in the aforesaid memorial services or ceremonies.

Adopted by the Board of Aldermen, May 2, 1916.

Received from his Honor the Mayor May 16, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 227.

Resolution to Authorize the Commissioner of Bridges to Purchase Materials for Reconstruction of the Roadways of Queensboro Bridge Without Public Letting.

Resolved, That, in pursuance of the provisions of section 419 of the Greater New York Charter, the Commissioner of Bridges be and he is hereby authorized and empowered to purchase in the open market, without public letting, the following supplies for use in the reconstruction of the pavement on the roadways of the Queensboro Bridge: Structural steel, plates, angles, etc., twenty-three thousand dollars (\$23,000); rivets, two thousand four hundred dollars (\$2,400); bolts and washers, four thousand dollars (\$4,000); yellow pine lumber, eleven thousand five hundred dollars (\$11,500), a total of forty thousand nine hundred dollars (\$40,900).

Adopted by the Board of Aldermen, May 9, 1916.

Approved by the Mayor, May 16, 1916.

No. 228.

Resolution Appointing Various Persons Commissioners of Deeds.

Resolved, That the following named persons be and they are hereby appointed Commissioners of Deeds:

Frank Boylan, 459 West 23d St., Manhattan.
Henry Seebeck, 259 Nott Ave., Long Island City, Queens.
Harris Levy, 474 Grand Street, Manhattan.
Benjamin Dembitz, 90 Sheriff St., Manhattan.

Katharine R. McIntyre, 303 East 33d St., Manhattan.
James Francis Duffy, 238 East 27th St., Manhattan.
Dennis D. Barnett, 336 East 25th St., Manhattan.
Arthur Ekroth, 572 Sterling Place, Brooklyn.
Thomas E. Brownlee, 309 Lafayette Ave., Brooklyn.
Herman Ringe, 8 Forest Ave., Metropolitan, Queens.
Henry C. Wuestefeld, 2551 Gates Ave., Queens.
Eugene Francis Moran, 131 Jewell St., Forest Hills, Queens.
Henry Bermant, 884 Riverside Drive, Manhattan.
Charles H. Mapledoram, 559 West 183d St., Manhattan.
Bernard J. Snow, 248 Wadsworth Ave., Manhattan.
Edwin I. Bloomingdale, 544 West 157th St., Manhattan.
Arthur N. Slomon, 515 West 187th St., Manhattan.
Harry D. Niemetz, 450 Audubon Ave., Manhattan.
John Patrick Walsh, 4260 Broadway, Manhattan.
Mark Alter, 115 West 10th St., Manhattan.
Jacob S. Demovitch, 168 Hart St., Brooklyn.
Mary Schiebel, 1014 DeKalb Ave., Brooklyn.
Anna M. Heidt, 163 Tompkins Ave., Brooklyn.
Joseph Sachs, 178 E. 7th St., Manhattan.
Doris Diamant, 46 East 3d St., Manhattan.
Abraham W. Slepian, 534 Ralph Ave., Brooklyn.
Bernard Besdine, 2048 Pacific St., Brooklyn.
Samuel Rubinton, 374 Alabama Ave., Brooklyn.
Samuel Rothenberg, 1604 Eastern Parkway, Brooklyn.
Oscar Richter, 464 56th St., Brooklyn.
Daniel Sullivan, 1153 74th St., Brooklyn.
Chas. Brown, 411 East 51st St., Manhattan.
Charles B. Little, 411 Sterling Place, Brooklyn.
William Mead, 14 St. Charles Pl., Brooklyn.
Reuben Goldsmith, 394 Park Place, Brooklyn.
Henry Louis Levinsky, 74 West 119th St., Manhattan.
Isaac Levison, 7 West 120th St., Manhattan.
H. David Frackman, 148 West 111th St., Manhattan.
Nathan April, 45 W. 116th St., Manhattan.
David Sidney Barr, 64 West 118th St., Manhattan.
Albert Wald, 68 West 117th St., Manhattan.
Isidore Joseph Rose, 169 Hewes St., Brooklyn, N. Y.
Thomas J. Moore, 409 East 86th St., Manhattan.
Bertha D. Platz, 57 East 96th St., Manhattan.
Moses A. Horowitz, 156 East 94th St., Manhattan.
Walter Russell Gledhill, 344 West 14th St., Manhattan.
Frank A. Carroll, 135 Norwood Ave., Brooklyn.
Samuel Mirrer, 68 Morrell St., Brooklyn.
Lawrence Weisman, 152 Atlantic Ave., Brooklyn.
Thomas Grinnell Flaherty, 194 Clinton St., Brooklyn.
Henry G. Ludder, 161 Meserole Ave., Brooklyn.
May E. Fruauf, 2125 Fifth Ave., Manhattan.
L. Cleveland Levy, 2051 Fifth Ave., Manhattan.
James William Henry Witherspoon, 2119 Madison Ave., Manhattan.
Frank Hagan, 2019 Grand Ave., Bronx.
Philip Lerman, 272 Atkins Ave., Brooklyn.
Samuel D. Rabinowitz, 474 Barbey St., Brooklyn.
Frances F. Shirk, 698 3rd Ave., Brooklyn.
Frank A. Zeisler, 2344 Gleason Ave., Unionport, Bronx.
Dorothea Hein, 642 St. Anns Ave., Bronx.
Thomas C. Cokeley, 2880 Harrington Ave., Bronx.
Ernest W. Leland, 678 St. Nicholas Ave., Manhattan.
Grauville I. Burr, 811 St. Nicholas Ave., Manhattan.
John Holzhamer, 167 Cypress Ave., Flushing, Queens.
Isaac E. Bermant, Earl Ave., Flushing, Queens.
Frank F. Greiner, The Oaks, Broadway and 8th St., Bayside, Queens.
George Landon, 107 West 70th St., Manhattan.
Jeremiah F. Sullivan, 175 West 81st St., Manhattan.
Elizabeth M. Dagenais, 102 West 93d St., Manhattan.
Max Henry Ring, 2120 Honeywell Ave., Bronx.
Martin Greenfield, 853 Stebbins Ave., Bronx.
Beatrice Beckerman, 1339 Prospect Ave., Bronx.
James T. Donahue, 4630 Matilda Ave., Bronx.
Joseph S. Klein, 893 Trinity Ave., Bronx.
Emanuel Alfred Weil, 970 Prospect Ave., Bronx.
Hannah Rosenbaum, 973 Simpson St., Bronx.
Joseph Patrick Murphy, 459 Tremont Ave., Bronx.
Maurice Kleinman, 1226 Vyse Ave., Bronx.
Reuben J. Nittstein, 874 E. 163d St., Bronx.
Maurice E. Sobel, 935 E. 163d St., Bronx.
William S. Kreiner, 1016 E. 163d St., Bronx.
Harry Jacobs, 2914 W 15th St., Brooklyn.
Jacob Braun, 3214 Surf Ave., Coney Island, Brooklyn.
Hyman Israel Barnett, 1665 43d St., Brooklyn.
A. Ralph Greene, 1564 49th St., Brooklyn.
Bernard K. Murphy, 1551 55th St., Brooklyn.
Henry O. E. Rehberg, 10 East Burnside Ave., Corona, Queens.
David I. Freiberg, 29 Clinton St., Manhattan.
Sol. H. Eisler, 325 East 4th St., Manhattan.
Charles H. Streiner, 100a Sumner Ave., Brooklyn.
Waldo T. Hunter, 244 Lefferts Ave., Brooklyn.
Alexander R. Kellegrew, 354 East 25th St., Brooklyn.
Celia Solomon, 964 Eastern Parkway, Brooklyn.
Arthur E. Schwartz, 1104 Park Place, Brooklyn.
Louis Belserene, 35 Madison St., Manhattan.
Thomas E. O'Brien, 561 9th St., Brooklyn.
Samuel Henry Kunstlich, 99 2nd Ave., Manhattan.
Charlotte Frances Kunstlich, 99 2nd Ave., Manhattan.
Alex. S. Weinberger, 233 East 12th St., Manhattan.
Rose Sarecky, 173 Henry St., Manhattan.
Kate Hahn, 179 East 117th St., Manhattan.
George Joseph Cavaleri, 2333 First Ave., Manhattan.
George Wm. Kutscher, 418 Richmond Terrace, Richmond.
William Garlick, 184 Decatur St., Brooklyn.
Joseph T. McMahon, 3440 Broadway, Manhattan.
Adopted by the Board of Aldermen, May 16, 1916.

No. 229.

An Ordinance to Amend Subdivision 2 of Section 13 of Article 2 of Chapter 24 of the Code of Ordinances, Relating to Peddlers, and Particularly to "Restricted Streets."

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

Section 1. Subdivision 2 of section 13 of article 2 of chapter 24 of the Code of Ordinances, relating to peddlers, and particularly to "restricted streets," as amended, is hereby further amended by striking therefrom the line [Broadway, from 134th Street to 158th Street, Manhattan;] and inserting at the head of the list of streets contained in said subdivision the following words:

All streets lying within the territory bounded by 134th Street, Amsterdam Avenue, 158th Street and the North River, Manhattan;

Sec. 2. This ordinance shall take effect immediately.

Adopted by the Board of Aldermen, May 9, 1916.

Received from his Honor the Mayor May 23, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 230.

Resolution for Special Revenue Bonds, \$18,975, for the Purpose of Employing Laborers to Patrol the Croton Water Shed and the New Croton Aqueduct.

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 Eighteen thousand nine hundred and seventy-five dollars (\$18,975),

the proceeds whereof to be used by the Commissioner of Water Supply, Gas and Electricity for the purpose of employing laborers to patrol the Croton Water Shed and the New Croton Aqueduct. All obligations hereunder to be incurred on or before December 31, 1916.

Adopted by the Board of Aldermen, May 9, 1916.

Received from his Honor the Mayor May 23, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 231.

Resolution for Special Revenue Bonds, \$5,672.50, Certain Departmental Uses, Department of Parks, Borough of Queens.

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 thousand, six hundred and seventy-two dollars and fifty cents (\$5,672.50), the proceeds whereof to be used by the Commissioner of Parks, Borough of Queens, for the purpose of certain departmental uses.

Repair to fence Kings Park.....	\$350 00
Repair to plumbing Highland Park.....	100 00
Painting Band Stand, Highland Park.....	25 00
Heating Repairs, Golf House.....	50 00
326 days of Climber and Pruner, and 266 days of Laborer to replace deduction made for Municipal Garage at \$2.50 (wages).....	1,480 00
732 days of Laborer at \$2.50 to restore cut of two men in the gardening force (wages).....	1,830 00
735 days of Laborer at \$2.50 for unusual requirements because of the severe weather (wages).....	1,837 50
Total	\$5,672 50

All obligations hereunder to be incurred on or before December 31, 1916.

Adopted by the Board of Aldermen, May 9, 1916.

Received from his Honor the Mayor May 23, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 232.

Resolution for Special Revenue Bonds, \$5,635, for Reconstruction of the Roadway Pavement on Approaches to the City Island Bridge.

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 thousand six hundred and thirty-five dollars (\$5,635), the proceeds whereof to be used by the Commissioner of Bridges for the purpose of reconstruction of the roadway pavement on approaches to the City Island Bridge. All obligations hereunder to be incurred on or before December 31, 1916.

Adopted by the Board of Aldermen, May 9, 1916.

Received from his Honor the Mayor, May 23, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 233.

Resolution to Pay a Bill of the Adams Express Company for Delivering Packages of Supplies to Members of the Board of Aldermen.

Resolved, That the Comptroller be and he is hereby authorized and empowered to draw a warrant in favor of the Adams Express Company for the sum of sixteen dollars and fifty-one cents (\$16.51), said sum to be payment in full for delivering packages of supplies to members of the Board of Aldermen during the month of March, 1916; the said sum to be charged to and paid out of the budgetary appropriation entitled—"Board of Aldermen and City Clerk, Code No. 8, Transportation."

Adopted by the Board of Aldermen, May 9, 1916.

Received from his Honor the Mayor, May 23, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 234.

Resolution to Authorize the Ordinance Clerk to Purchase a Charter and a Set of the Consolidated Laws, with Amendments to Date, for Use of Committees of the Board.

Resolved, That the Ordinance Clerk be and he is hereby authorized to purchase, for the sole use of the several Committees of the Board, a copy of the Greater New York Charter, with amendments to date, and a set of the Consolidated Laws, with amendments to date, the cost of which shall be charged to and paid out of the budgetary appropriation for 1916, entitled "Office Supplies, Board of Aldermen," Code No. 5.

Adopted by the Board of Aldermen, May 9, 1916.

Received from his Honor the Mayor, May 23, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 235.

Resolution Appointing Various Persons Commissioners of Deeds.

Resolved, That the following persons be and they are hereby appointed Commissioners of Deeds:

Kathryn A. McShane, 335 West 20th St., Manhattan.
 Harry King, 261 Devoe St., Brooklyn.
 Abraham Weinberg, 10-12 Clinton St., Manhattan.
 Anna Haar, 141 Attorney St., Manhattan.
 Lewis F. Glaser, 886 8th Ave., Manhattan.
 Samuel J. Powers, 100 West 44th St.
 Walter E. Warner, 96 Lefferts Place, Brooklyn.
 Emil Wolfertz, 437 Bleeker St., Queens.
 Charles James Shay, 7 Shipley St., Woodhaven, Queens.
 Frank Volz, 121 Dyckman St., Manhattan.
 James Auerbach, 235 West 13th St., Manhattan.
 Herman S. Mendelsohn, 999 East 163rd St., Bronx.
 Mortimer E. Rosenbaum, 2860 Valentine Ave., Bronx.
 William J. Taglieri, Jr., 2444 Valentine Ave., Bronx.
 Frank B. Meeker, 1632 University Ave., Bronx.
 Annie L. Patterson, 207 Congress St., Brooklyn.
 Abraham Saffir, 219 Pulaski St., Brooklyn.
 Jacob Levitt, 249 Kosciusko St., Brooklyn.
 Jere Liebermann, 25 Stuyvesant Ave., Brooklyn.
 Charles Newman, 179 Essex St., Manhattan.
 William Weiskopf, E. 95th St., Rockaway Ave., Brooklyn.
 Abraham Vogel, 332 Stone Ave., Brooklyn.
 Hazel A. Brady, 479 75th St., Brooklyn.
 Christopher J. Acer, 244 93d St., Brooklyn.
 William R. Young, 559 52nd St., Brooklyn.
 Joseph Charles Totten, 585 Bedford Ave., Brooklyn.
 Henry Lipton, 208 East 84th St., Manhattan.
 Paul George Wenzel, 513 East 87th St., Manhattan.
 Clarence M. Hodgkinson, 1422 Stoothoff Ave., Queens.
 Charles Uhlinger, 71 Forest Parkway, Woodhaven, Queens.
 John D. Armstrong, 80 Waterbury Ave., Richmond Hill, Queens.
 Carrie E. Grabber, 273 Irving Ave., Brooklyn.
 Anna M. Schoenkopf, 56 Throop Ave., Brooklyn.
 Eibertus A. Konter, 14 1/2 Lawton St., Brooklyn.
 Henry Peter Bielbig, 2395 Myrtle Ave., Queens.
 William Albers, 287 State St., Brooklyn.
 Mildred D. Raymond, 204 Schermerhorn St., Brooklyn.
 Albert J. Getz, 333 East 19th St., Manhattan.
 William John, 468 Court St., Brooklyn.
 Neva Hagen, 270 West 119th St., Manhattan.
 Samuel Simon, 320 Wyona St., Brooklyn.
 Albert S. Hoffheimer, 545 West 147th St., Manhattan.
 John R. Fitzpatrick, 427 West 154th St., Manhattan.
 Bernard Baumann, 969 Trinity Ave., Bronx.
 Helen M. O'Brien, 280 East Burnside Ave., Bronx.

Louis Burkhardt, 1051 College Ave., Bronx.
 Frederick White Hendrickson, 4th St., Bayside, Queens.
 James Hart Welch, Main Ave., Douglaston, Queens.
 Martin F. Eisenberg, 381 West End Ave., Manhattan.
 James J. Finnegan, 214 West 68th St., Manhattan.
 Oscar Lowenstein, 318 West 71st St., Manhattan.
 Ellis Slatoff, 1554 Minford Place, Bronx.
 Robert Jablin, 1476 Wilkins Ave., Bronx.
 Moses Nelson, 5310 Eleventh Ave., Brooklyn.
 Joseph George, 76 Corona Ave., Corona, Queens.
 James L. Gundry, Jr., 173 9th St., Elmhurst, Queens.
 Charles McGowan, 523 W. 129th St., Manhattan.
 H. Lawrence Harrison, 434 W. 124th St., Manhattan.
 James J. Maddox, 149 W. 108th St., Manhattan.
 Harry Minzer, 136 Suffolk St., Manhattan.
 Rudolph Deibel, 174 Lewis St., Manhattan.
 Harry Dendo, 153 Avenue B, Manhattan.
 John Kueffner, 445 Tompkins Ave., Brooklyn.
 Florence Epstein, 1379 Forty-fifth St., Brooklyn.
 Sigmund Faust, 655 Marks place, Manhattan.
 Arthur V. McDermott, 850 St. Marks Ave., Brooklyn.
 V. Smith Kraeger, 890 Lincoln place, Brooklyn.
 Abraham I. Danish, 278 Madison St., Manhattan.
 Louis J. Somerville, 579 Fourth St., Brooklyn.
 Emma W. Calkins, 410 Third St., Brooklyn.
 George Zimmerman, 406 E. 9th St., Manhattan.
 Gussie Shapiro, 130 Delancey St., Manhattan.
 Charles L. Ornstein, 180 Eldridge St., Manhattan.
 Louis F. Goldberg, 118 Eldridge St., Manhattan.
 Elizabeth M. Dagenais, 102 West 93rd St., Manhattan.
 Charles Lehman, 203 West 94th St., Manhattan.
 W. Kenyon Jermy, 245 West 129th St., Manhattan.
 Adopted by the Board of Aldermen May 23, 1916.

No. 236.

Resolution Appointing Various Persons Commissioners of Deeds.

Resolved, That the following named persons be and they are hereby appointed Commissioners of Deeds:

Bernard W. Levy, 200 Union Ave., Brooklyn.
 Harry E. Taylor, 95 Devoe St., Brooklyn.
 Morris Pollatchek, 436 Graham Ave., Brooklyn.
 William P. Buckley, 104 Ninth Ave., L. I. City, Queens.
 Henry Bier, 526 Grand St., Manhattan.
 Roy C. Clark, 126 West 53d St., Manhattan.
 James McIluff, 596 Franklin Ave., Brooklyn.
 Gustav Raphael, 15 N. Fairview Ave., Rockaway Beach, Queens.
 John C. Judge, Newport and Henley Ave., Belle Harbor, Queens.
 Peter C. Van Zulen, 27 Van Cortlandt Ave., Evergreen, Queens.
 Minnie Miller, 429 Charlotte place, Queens.
 Henry H. Morris, 3810 Broadway, Manhattan.
 Joseph E. Greenberg, 1061 St. Nicholas Ave., Manhattan.
 Martha Tischler, 508 West 158th St., Manhattan.
 May Leinkram, 612 West 184th St., Manhattan.
 Edith Greenstein, 866 Southern Boulevard, Bronx.
 Diogenes Serretta-Wian, 2748 3rd Ave., Bronx.
 Meta Vorwerk, 1167 Webster Ave., Bronx.
 Jeremiah G. Keleher, 164 East 102nd St., Manhattan.
 John Minett, Jr., 84 Hull St., Brooklyn.
 George J. Young, 287 Pulaski St., Brooklyn.
 Anthony Horn, 504 Marcy Ave., Brooklyn.
 Michael Monaco, 55 Ellery St., Brooklyn.
 Donato Jacaruso, 370 Metropolitan Ave., Brooklyn.
 Harry Rubenson, 138 E. Houston St., Manhattan.
 Morris Jacobs, 177 Christopher Ave., Brooklyn.
 Joseph Allen, 1847 Prospect Place, Brooklyn.
 Michael J. Gersoni, 187 Rochester Ave., Brooklyn.
 Isaac Siegmeister, 361 Stone Ave., Brooklyn.
 Moses W. Saxe, 856 Eastern Parkway, Brooklyn.
 James M. Lane, 1270 73d St., Brooklyn.
 May A. Lover, 632 59th St., Brooklyn.
 Augusta I. White, 61 S. Elliott Place, Brooklyn.
 John Browne, 161 Prospect Place, Brooklyn.
 Arthur J. Farrell, 31 Madison St., Brooklyn.
 Otto A. Schroeder, 462 Manor Ave., Queens.
 Henry C. Reiners, 119 Prospect Place, Queens.
 Jacob B. Rubenstein, 530 Brook Ave., Bronx.
 George Andrew Rosen, 4 West 129th St., Manhattan.
 Eckford S. C. Littlefield, 88 Hooper St., Brooklyn.
 Morris Weiss, 186 Penn St., Brooklyn.
 Robert C. Cochrane, 589 1/2 Lafayette Ave., Brooklyn.
 Joseph Christian Jahn, 170 Chichester Ave., Queens.
 Kathryn N. Devitt, 714 Macon St., Brooklyn.
 Joseph S. Green, 152 Wyckoff St., Queens.
 Barney Budwick, 5 E. 107th St., Manhattan.
 James J. Baia, 338 11th St., Brooklyn.
 John H. O'Reilly, 64 Seventh Ave., Manhattan.
 John H. McGeeney, 340 West 15th St., Manhattan.
 Thomas D. Brislin, 1486 Jefferson Ave., Brooklyn.
 Simon Linetzky, 195 Avenue B, Manhattan.
 Albert T. D'Andrea, 315 Smith St., Brooklyn.
 Benjamin Jacobs, 328 West 36th St., Manhattan.
 Joseph Levy, 2116 Madison Ave., Manhattan.
 George E. Wilsen, 167 West 231st St., Bronx.
 Lambert K. Peacock, Jr., 283 East 236th St., Bronx.
 William Lytle, 221 East 200th St., Bronx.
 William J. Totten, 25 Tyndall Ave., Bronx.
 Joseph Levine, 531 Van Siclen Ave., Brooklyn.
 Max Mendlowitz, 449 Barbey St., Brooklyn.
 Edouard C. Panitz, 112 Sunnyside Ave., Brooklyn.
 Sigismund J. Trapani, 138 New Jersey Ave., Brooklyn.
 Herbert C. Wortman, 149 Shepherd Ave., Brooklyn.
 Albert Sigel, 772 St. Nicholas Ave., Manhattan.
 Robert Katz, 207 W. 144th St., Manhattan.
 Theodore I. Schneider, 945 Aldus St., Bronx—
 Jesse Myers, 1042 Morris Ave., Bronx.
 Harry Desborough Tyler, 170 West 74th St., Manhattan.
 Jacob Gensler, 1382 Prospect Ave., Bronx.
 Mabel Goldstein, 890 Forest Ave., Bronx.
 Charles M. Setlow, 1171 Bryant Ave., Bronx.
 Jacob W. Winkler, 16 East 177th St., Bronx.
 William Charles Quinn, 2073 Vyse Ave., Bronx.
 Abraham Silverstein, 855 Home St., Bronx.
 Rosetta A. Barton, 72 Bay 25th St., Brooklyn.
 William J. Delatour, 207 East 3d St., Brooklyn.
 Albert W. Meisel, Laurel Ave., Sea Gate, Brooklyn.
 Julian Vernon Carabba, 1868 65th St., Brooklyn.
 William E. Coonan, 455 East 4th St., Brooklyn.
 Julius Haas, Jr., 57 East Hayes Ave., Corona, L. I., Queens.
 Henry Lawrence Bogert, 72 Lawrence St., Flushing, Queens.
 George W. Johnston, 3313 Olinville Ave., Bronx.
 Edward Wein, 220 W. 107th St., Manhattan.
 Edward Fillmore, 601 West 115th St., Manhattan.
 George Tragidis, 443 Manhattan Ave., Manhattan.
 Isaac Ringel, 13 Avenue D, Manhattan.
 Eugene C. Egan, 345 Tompkins Ave., Brooklyn.
 Florence G. Levy, 856 Nostrand Ave., Brooklyn.
 Mary Ernestine Lewis, 1351 St. Johns Place, Brooklyn.
 Louise Engelhardt, 412 East 21st St., Brooklyn.

Morris Jos. Levine, 1516 Union St., Brooklyn.
Howard C. Evans, 766 East 32nd St., Brooklyn.
Meyer Wolfe, 8 Ridge St., Manhattan.
Henry Vincent Kevil, 772 Amsterdam Ave., Manhattan.
James J. D'Arcy, 309 W. 93d St., Manhattan.
Eva Johanson, 1105 Teller Ave., Bronx.
Martin Ciora, 7 Glenada Place, Brooklyn.
Adopted by the Board of Aldermen May 23, 1916.

No. 237.

Resolution for Special Revenue Bonds, \$4,500, for the Purchase of an Asphalt Truck for Use by the President of the Borough of Queens.

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 five hundred dollars (\$4,500), the proceeds whereof to be used by the President of the Borough of Queens for the purpose of purchasing an asphalt truck for the Bureau of Highways, all obligations contracted for hereunder to be incurred on or before December 31, 1916.

Adopted by the Board of Aldermen May 16, 1916.

Approved by the Mayor May 26, 1916.

No. 238.

Resolution for Special Revenue Bonds, \$41,100, to Provide Additional Funds for Maintenance of the Highways of the Borough of Queens.

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 forty-one thousand one hundred dollars (\$41,100), the proceeds whereof to be used by the President of the Borough of Queens for the purpose of providing additional funds for the maintenance of the highways.

All obligations contracted for hereunder to be incurred on or before December 31, 1916.

Adopted by the Board of Aldermen May 16, 1916.

Approved by the Mayor May 26, 1916.

No. 239.

An Ordinance to Amend Chapter 9 of the Code of Ordinances by Modifying Articles 2, 3, 4, 5 and 6 Thereof.

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 modifying articles 2, 3, 4, 5 and 6 in chapter 9 thereof, to read as follows:

§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, have their base frames permanently and effectively grounded wherever feasible. Where grounding of the frame is impracticable, special permission for its omission may be given in writing, in which case the frame must be permanently and effectively insulated. 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.

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 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 one pole can be opened without simultaneously disconnecting both sides 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 the generator as may cause such bushings 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, cable with grounded lead sheath or grounded conduit must be used.

b. Conductors must have an approved insulating covering as called for 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 in article 4 of this chapter 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 approved fuses. This circuit is not to carry over 660 watts.

For the protection of instruments and pilot lights and 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 must not be used for storage purposes.

b. Switchboards must be made of non-combustible material.

c. Switchboards must be accessible from all sides when the connections 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, but in no case 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 wattage and voltage of the lamp or lamps to be used in each receptacle.

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 connections between resistance elements and the contact device of a rheostat, the insulation must be of approved slow-burning or other heat-resisting type. For large 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. Lightning arresters must be attached to each wire of every overhead circuit connected with the station.

b. Lightning 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, unless electrically and mechanically attached to both ends of the pipe.

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 § 315 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 must have their base frames permanently and effectively grounded.

Motors operating at a potential of 550 volts or less must have their base frames permanently and effectively grounded wherever feasible. Where grounding of the frame is impracticable, special permission for its omission may be given in writing, in which case the frame must be permanently and effectively insulated. 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.

b. Motors operating at a potential of 550 volts or less must be wired with the same precautions as required by 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, except in central or sub-stations, be wired with approved multiple conductor, metal sheathed cable in approved metal conduit. All apparatus and wiring connected to the high tension circuit must be completely enclosed in substantial grounded metal shields or casings, and the conduit must enter and be properly secured to such casings or to suitable terminal boxes screwed or bolted to the casings.

The insulation of the several conductors for high-potential motors, where leaving the metal sheath of cables, 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.

Conductors carrying the current of only one motor 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 conductors must be of such size as to be properly protected by these larger fuses.

The current used in determining the size of the conductor carrying the current of only one varying (or variable) speed motor 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.....	200
Rolling tables	180
Hoists, rolls, ore and coal-handling machines.....	150
Freight and passenger elevators, shop cranes, tool heads, pumps, etc.....	120

c. Each motor with its starting device 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 of this chapter). 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, and the total wattage of the circuit does not exceed 660. 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 to locate them elsewhere is given in writing.

Where the circuit-breaking attachment on the motor-starting device disconnects all wires of the circuit, the switch called for in this section may be omitted.

Overload-release attachments 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 a rubber-covered conductor carries the current of only one A. C. motor of a type requiring large starting current it may be protected by a fuse or an automatic circuit breaker without time limit device, rated in accordance with Table B of §418 of this chapter. The rated continuous current capacity of a time limit circuit breaker protecting a motor of the above type need not be greater than 125 per cent. of the motor current rating, providing the time limit device is capable of preventing the breaker opening during the starting period.

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 lumpy places, must be enclosed in approved cut-out boxes or 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 approved cases.

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.

h. Motors must each be provided with a name-plate, giving the maker's name, the capacity in volts and amperes (or watts), and the normal speed in revolutions per minute.

All varying (or variable) speed 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 cell 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 sub-stations casings of all transformers must be permanently and effectively grounded.

The cases or frames of transformers used exclusively to supply current to switch-board instruments must be grounded, unless they are installed and guarded in all respects as required for the higher voltage circuit connected to them.

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 § 312f of this chapter. At the first point of attachment to building frame multiple conductor cables must either be secured to strain insulators spaced not less than one foot from any adjacent woodwork and in turn secured to petticoat or strain insulators or the conductor must be separately attached to petticoat insulators spaced not less than 6 inches apart. If necessary to carry the service cable upon 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 8 feet above the highest point of roofs over which they pass or to which they are attached and roof structures must be substantially constructed. Wherever feasible, wires crossing buildings must be supported on poles independent of the buildings. 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 chapter must properly enter the cabinet.

Metal conduits, containing service wires must be insulated from the metal conduit, metal moulding, or armored cable system within the building and all metal work on or in the building or they 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. This ground connection to be independent of and in addition to any other ground wire on metal conduit, metal moulding or armored cable systems within the building.

§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 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 or on the individual service as provided in paragraphs c to g, inclusive, of this section.

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 (except where supplied from private industrial power or lighting plants where the primary voltage does not exceed 550 volts) 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 connections 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 sheaths 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. Gas-filled incandescent lamps.

436. Transformers, low potential.

437. Decorative lighting systems.

438. Theatre and moving picture establishment wiring.

439. Outline lighting.

441. Lighting and power from railway wires.

442. Garages.

443. Electric cranes.

444. Wires, high potential systems.

445. Transformers, high potential.

447. Wires, extra-high potential.

§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. Split knobs or cleats must be used for the support of conductors smaller than No. 8 B. & S. gage.

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 wood-work not less than $\frac{1}{2}$ 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 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.

h. In three wire (not three-phase) systems, the neutral must be of sufficient capacity to carry the maximum current to which it may be subjected.

§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, unless the conductors are properly protected by fuses and are carried outside all the buildings but the one served. 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. These requirements do not apply to factory yards and factory buildings under single occupancy or management.

§418. 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. Gage Number.	Diameter of Solid Wire in Mils.	Area in Circular Mils.	Table A. Rubber Insulation Amperes.	Table B. Other Insulation Amperes.
18.....	40.3	1,624	3	5
16.....	50.8	2,583	6	10
14.....	64.1	4,107	15	20
12.....	80.8	6,530	20	25
10.....	101.9	10,380	25	30
8.....	128.5	16,510	35	50
6.....	162.0	26,250	50	70
5.....	181.9	33,100	55	80
4.....	204.3	41,740	70	90
3.....	229.4	52,630	80	100
2.....	257.6	66,370	90	125
1.....	289.3	83,690	100	150
0.....	325.	105,500	125	200
00.....	364.8	133,100	150	225
000.....	409.6	167,800	175	275
0000.....	460.	200,000	200	300
		211,600	225	325
		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

1 Mil. = 0.001 inch.

§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 in 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. In two or three phase three-wire circuits and two-phase four-wire circuits there must be a trip-coil in each of two phases, and in four-wire three-phase circuits there must be a trip-coil in each phase. If a circuit breaker is used in place of the switch it must be so arranged that no one 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 and circuit-breakers must, when placed where exposed to mechanical injury or in the immediate vicinity of easily ignitable stuff or where exposed to inflammable gases or dust, or flyings of combustible material, be mounted in approved cut-out boxes or cabinets, except oil switches, circuit breakers and similar devices which have approved casings.

Cabinets and cut-out boxes must be of metal when used with metal conduit, armored cable or metal moulding systems.

In rooms where inflammable gases may exist, particularly in rooms or compartments containing mixing tanks used for the manufacture of inflammable mixtures, in rooms containing wash tanks and in dyeing room of dry cleaning and dry dyeing establishments; in rooms, vaults or compartments used for the storage of inflammable motion picture films or other nitro-cellulose products, and in cellars or basements used for storage of drugs, all devices which produce or create sparks or arcs must be placed in approved vapor-proof enclosures.

c. Switches, cut-outs and circuit-breakers must, when located where exposed to moisture as in basements and similar places, be mounted in approved cut-out boxes or cabinets, and when located in wet places or outside of buildings must be mounted in approved weatherproof cut-out boxes or cabinets.

d. Time switches, sign flashers and similar appliances must be of approved design and enclosed in approved cabinets, except sign flashers mounted as described in §583b of this chapter.

e. Switches, cut-outs and circuit-breakers must have the spacing within cabinets or cut-out boxes between the walls of the cabinet or cut-out box and current-carrying parts of devices as specified in §570 of this chapter.

§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 1 1/4 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, unless the switch is of the knife-blade type and is enclosed in an approved box or cabinet, under which conditions the switch may be placed between the source of the supply and the cut-out.

Automatic cut-outs must not be placed in any permanently grounded service wire. 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). This requirement shall not apply to fixture wires and flexible cords connected to branch circuits.

Automatic cut-outs must not be placed in any permanently grounded wire, except as provided in paragraph d of this section.

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 bases which, except on switchboards, must be mounted in approved cut-out boxes or cabinets. A space of at least two inches must be provided between the open-link fuses and metal, or metal lined walls or metal, metal lined or glass paneled doors of cabinet or cut-out boxes.

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 medium base sockets or 25 candelabra base sockets or lamp 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-covered wire is carried direct into keyless sockets or receptacles, and where the location of sockets and the 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 lamp receptacles) will be dependent upon the final cut-out.

Except for signs and outline lighting, sockets and lamp receptacles will be considered as requiring not less than 40 watts each if of medium size, or 25 watts if of candelabra size.

All wires of all branches or taps which are directly connected to lamp sockets or other translating devices, must be protected by proper fuses, except that by special permission in writing fuses may be omitted in grounded wires of such branches or taps.

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, signs and large chandeliers, the fuses may be in accordance with the following table:

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 a rubber-covered conductor carries the current of only one A. C. motor of a type requiring large starting current, it may be protected by a fuse or an automatic circuit breaker without time limit device, rated in accordance with Table B of §418 of this chapter. The rated continuous current capacity of a time limit circuit-breaker protecting a motor of the above type need not be greater than 125 per cent of the motor current rating, provided the time limit device is capable of preventing the breaker opening during the starting period.

For the protection of wires having safe carrying capacities exceeding the rated capacity of the largest approved enclosed type fuses, approved enclosed fuses arranged in multiple may be used, provided as few fuses as possible are used and the fuses are of equal capacity and provided the cut-out terminals are mounted on a single continuous pair of substantial bus bars. The total capacity of the fuses should not exceed the safe carrying capacity of the wires. This does not apply to motor circuits.

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.

Circuit breakers will be approved for circuits having a maximum capacity greater than that for which approved enclosed fuses are rated.

§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. Service switches must indicate plainly whether they are open or closed.

In risks having private plants 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. Switches 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, not 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 circuit 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 at 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. Sub-bases of non-combustible, non-absorptive, insulating material, which will separate the wires at least 1/4 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 when the normal load on the circuit at any time will not exceed 660 watts.

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 § 5541 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 or in volts and watts.

§426. Wires, low potential systems.

1. General Rules.

a. Wires where entering cabinets, cut-out boxes or junction boxes, except where they are in conduit, armored cable or metal moulding, 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.

The use of permanently and reliably grounded conductors not complying with the insulation requirements of article 5 of this chapter may be authorized by special permission in writing.

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 installed in approved conduit or armored cable or 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 ¾ inch in thickness, and at least as high as the insulators.

Protection on side walls must extend not less than 7 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 bushed holes) or of 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 of this chapter, 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.

In making open work extensions from concealed conduit or armored cable installations, the outlet boxes must first be set out beyond the finished surface or else an extension collar must be added. This collar must be electrically and mechanically secured to the box.

The conductors of the extension must be brought out of the side of the box or collar and must be protected by approved insulating bushings as required in par. "a" of this section.

f. When run in unfinished attics or roof spaces, 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 or roof spaces 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 R. S.), slow-burning weatherproof (type S. B. W.), or slow-burning insulation (type 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 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, 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. Wires must be double braided (type R. D.) for twin, twisted pair or multiple conductor cables and for all single conductors of No. 6 B. & S. gage and larger.

Slow burning insulation may, however, be used in permanently dry locations where excessive temperatures are present, provided special permission in writing be given in advance.

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. Approved clamping devices constructed of or employing insulating wedges inserted in the ends of the conduit.

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. Conductors larger than No. 4 B. & S. gage must not be materially deflected where they enter or leave the cabinet, and where terminating in the cabinet must be properly supported at the end of the conduit.

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.

§427. Armored cables.

a. Armored cables must be continuous from outlet to outlet or to junction boxes or cabinets, 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 every 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 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 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 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 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. Grounded pipes 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 accessible, and must be made by means of approved ground clamps.

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 continuously 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.

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 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 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

lent 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 accessible, and must be made by means of approved ground clamps.

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. Such boxes are considered to be accessible when installed in an attic that has sufficient head room, but which is reached only by a portable ladder and permanent hatch.

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 3½ 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.

i. Conduit sizes for various numbers, gauges and types of conductors must conform to the following table:

Size of Conduits for the Installation of Wires and Cables—Number of Conductors.

Size B. & S.	One Conductor in a Conduit. Size Conduit, In. Electrical Trade Size.	Two Conductors in a Conduit. Size Conduit, In. Electrical Trade Size.	Three Conductors in a Conduit. Size Conduit, In. Electrical Trade Size.	Four Conductors in a Conduit. Size Conduit, In. Electrical Trade Size.
14.....	1/2	1/2	1/2	3/4
12.....	1/2	3/4	3/4	3/4
10.....	1/2	3/4	3/4	1
8.....	1/2	1	1	1
6.....	1/2	1	1 1/4	1 1/4
5.....	3/4	1 1/4	1 1/4	1 1/4
4.....	3/4	1 1/4	1 1/4	1 1/2
3.....	3/4	1 1/4	1 1/4	1 1/2
2.....	3/4	1 1/4	1 1/2	1 1/2
1.....	3/4	1 1/2	1 1/2	2
00.....	1	1 1/2	2	2
00.....	1	2	2	2 1/2
000.....	1	2	2	2 1/2
0000.....	1 1/4	2	2 1/2	2 1/2
C M				
200000.....	1 1/4	2	2 1/2	2 1/2
250000.....	1 1/4	2 1/2	2 1/2	3
300000.....	1 1/4	2 1/2	2 1/2	3
400000.....	1 1/4	3	3	3 1/2
500000.....	1 1/2	3	3	3 1/2
600000.....	1 1/2	3	3 1/2	
700000.....	2	3 1/2	3 1/2	
800000.....	2	3 1/2	4	
900000.....	2	3 1/2	4	
1000000.....	2	4	4	
1250000.....	2 1/2	4 1/2	4 1/2	
1500000.....	2 1/2	4 1/2	5	
1750000.....	3	5	5	
2000000.....	3	5	6	
	Twin Conductor.			
14.....	1/2	3/4	1	1
12.....	1/2	3/4	1	1 1/4
10.....	3/4	1	1 1/4	1 1/4

3 Conductor Convertible System.

Size of Conductors.		Size Conduit, In. Electrical Trade Size.
2-Conductor. Size B. & S.	1-Conductor. Size B. & S.	
14	10	3/4
12	8	3/4
10	6	1
8	4	1
6	2	1 1/4
5	1	1 1/4
4	0	1 1/2
3	00	1 1/2
2	000	1 1/2
1	0000	2
0	250000	2
00	350000	2 1/2
000	400000	2 1/2
0000	550000	3
250000	600000	3
300000	800000	3
400000	1000000	3 1/2
500000	1250000	4
600000	1500000	4
700000	1750000	4 1/2
800000	2000000	4 1/2

Single Conductor Combination.

Note—Where special permission has been given in accordance with section 426 of this chapter, the following table to apply:

No. of Wires.	Size Conduit, In. Electrical Trade Size.
3 No. 14 R.C. solid.....	1/2
5 No. 14 R.C. solid.....	3/4
10 No. 14 R.C. solid.....	1
18 No. 14 R.C. solid.....	1 1/4
24 No. 14 R.C. solid.....	1 1/2
40 No. 14 R.C. solid.....	2
74 No. 14 R.C. solid.....	2 1/2
90 No. 14 R.C. solid.....	3

§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 surface 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 accessible, and must be made by means of approved ground clamps.

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. Fixtures must, except as specified in paragraph b hereof, be insulated from their supports by approved insulating joints placed as close as possible to the ceilings or walls. Where insulating joints are required, fixture canopies of metal must be thoroughly and permanently insulated from metal 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 surface and outlet boxes from which they are designed to be insulated. Gas pipes must be protected above the insulating joints 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.

b. Insulating joints and canopy insulators may be omitted in the following cases:

1. Straight electric fixtures metallically connected in a permanent and effective manner to metal conduit, armored cable or metal moulding systems or to gas piping, provided such gas piping is grounded in the manner prescribed for conduit in § 428 of this chapter.

2. Straight electric fixtures connected to knob and tube, wooden molding or open work, except on metal ceilings or on plaster walls or ceilings containing metal lathing.

3. Straight electric fixtures which are permanently and effectively grounded to a separate ground wire not smaller than No. 14 B. & S. gage.

4. By special permission in writing, straight electric fixtures may be grounded by connecting them by an approved means to one of the supply wires of the fixture, provided such wire is permanently and effectively grounded, and if there is no fuse, circuit breaker or switch in that side of the circuit between the fixture and the ground connection.

5. Combination fixtures in which all wires have an approved rubber insulation not less than 3-64 inch in thickness and where gas piping is grounded, as in subdivision 1 above.

c. For fixtures which are not attached to gas pipes or conduit unless outlet boxes or other approved fittings which will give proper support for fixtures are used, a seven-eighths inch block must be fastened between studs or floor timbers flush with the back of lathing to hold tubing and to support fixtures. When this cannot be done, wooden base blocks, not less than ¾ inch in thickness, securely screwed to lathing, must be provided.

Fixtures having so-called flat canopies, tops or backs, will not be approved for installation, except where outlet boxes are used.

d. When installed out of doors, fixtures must be of water-tight construction.

e. Fixture wires must be not smaller than No. 18 B. & S. gage, and must have an approved insulating covering (see § 552 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, conductors having approved slow-burning or other heat-resisting coverings must be used. All such forms of fixtures must be submitted for examination, test and approval before being introduced for use.

f. Supply conductors, and especially the splices to fixture wires, must be kept clear of the grounded part of gas pipes, and, where shells or outlet boxes are used, they must be made sufficiently large to allow the fulfilment of this requirement.

g. Fixtures must, when wired on the outside, have the conductors so secured as not to be cut or abraded by the pressure of the fastenings or motion of the fixture. Chain fixtures must be wired with flexible conductors.

h. 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 fixtures.

i. 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 (see §419b of this chapter) 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 stranded rubber-covered conductors not smaller than No. 14 B. & S. gage, 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, portable heating apparatus or other portable devices.

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 guard.

e. Unless provided with approved metal armor, flexible cord must not be used in show windows or show cases, except that approved portable cord may be used for the purpose of supplying current to portable lamps and other devices for exhibition purposes.

f. Flexible cord must be protected by approved bushings where the cord enters the socket, unless the socket is so constructed that no bushing is required.

g. Must be so connected to all fittings that strain is taken from the joints and binding screws.

h. Must where passing through covers of outlet boxes be protected by approved bushing especially designed for this purpose. So-called hard rubber composition bushings threaded into box covers must not be used.

§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.

e. 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 one inch between frame and support, and must in general be treated as sources of heat.

§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 materials.

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. Gas Filled Incandescent Lamps.

a. Must be so grouped that not more than 660 watts (nor more than 16 sockets or receptacles) will be dependent on one cutout except that in cases where wiring equal in size to No. 14 B. & S. gage is carried directly into keyless sockets or receptacles, the location of which 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 on the final cutout. Where a single socket or receptacle is used on a circuit the limitation of watts permissible on the final cutout shall be the maximum capacity for which such socket or receptacle is approved.

b. Must not be used in show windows or in other locations where inflammable material is liable to come in contact with lamp equipment except where used in connection with approved fixtures where temperature of any exposed portion of same does not exceed 200 degrees Fahr. (93 degrees Centigrade).

c. Must not be used in connection with medium-base sockets or receptacles if of above 250 watts nominal capacity nor with Mogul base sockets or receptacles if of above 1,500 watts capacity.

d. Fixtures within buildings must be wired with conductors having approved slow-burning or other heat-resisting coverings where the temperature to which wire is subjected at any point exceeds 120 degrees Fahr. (49 degrees Centigrade). Where fixtures are placed outside of buildings approved rubber insulated wire is required.

§436. Transformers, low potential.

1. Oil transformers.

a. Must not be placed inside any building except central stations or sub-stations, unless in transformer vaults and by special permission.

2. Air cooled transformers.

b. Air cooled transformers must not be placed inside of any building, excepting central stations or sub-stations if the highest voltage of either primary or secondary exceeds 550 volts, unless installed in approved transformer vaults.

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 a slab or panel of non-combustible, non-absorptive, insulating material, such as slate, marble or soapstone.

§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 dependent on one cut-out.

§438. Theatre 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, corridors, 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.

h. 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. Dimmers must be dead when the switch controlling circuit of which dimmer forms a part is open.

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 and providing at least one-half inch separation between the metal of the box and receptacle terminals; 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 will 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 and providing at least one-half inch separation between the metal of the box and receptacle terminals; 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 amperes 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 enclosed type and installed so as to conform to the requirements of §208 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 which are sealed or locked in place.

k. Portable equipment.

Arc lamps used for stage effects must conform to the following requirements:

1. Must be constructed entirely of metal of a thickness not less than No. 20 U. S. sheet metal gage 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 of 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 fireproof 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 serious mechanical strain on the connections.

p. Portable conductors used from 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 10 amperes capacity.

q. Brackets used on scenery 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. Fixtures must be securely fastened in place.

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 auditorium 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 cut-out 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. All equipments must be expressly approved, and such approval must cover the entire machine, including all attachments, current-controlling devices and other parts employed, including also the film.

2. The entire equipment must consume not more than 660 watts.

3. Arc lamps must be constructed so far as practicable in accordance with the requirements of §438 k, 1, 2, 3, 4 and 6 of this chapter, and incandescent lamps must be suitably enclosed.

4. Rheostats, transformers, switches and other similar current-controlling devices must be attached to and form a part of the machine, must have no live parts exposed, and must comply with the requirements of §565 and §578 or §581 a, b, of this chapter.

5. Films must be of an approved slow-burning type having a permanent distinctive marker.

6. Machines must be so constructed that they cannot be used with films employed on the full-sized commercial moving picture machine. This may be accomplished by using a film of special width or with special perforations or by any other approved means.

7. Machines must be marked with the name or trade-mark of the maker, and with the voltage and current rating for which they are designed, and be plainly marked, "For use with slow-burning films only."

§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 1/2 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 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.

g. 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 4 1/2 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 2 1/2 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 a to f, hereof.

§441. Lighting and power from railway wires.

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.

§442. 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. All conductors except those required for pendant lamps or portable connections must be installed in approved metal conduit or approved armored cable, except that approved metal moulding may be used only in offices and show-rooms. Metal conduits, armored cable or metal moulding must be so installed that all outlet and junction boxes shall be located at least four feet above the floor.

b. Flexible cord for pendant lights must be approved reinforced cord.

c. Flexible cords for portable lamps, motors or other apparatus must be approved cord designed for rough usage. The portable cord must carry the male end of an approved pin plug connector or equivalent, 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 four feet above the floor.

d. Flexible cable for charging must be of approved theatre stage type, this cable carrying parts of approved connectors of at least fifty amperes capacity. The connectors must be of such design or so hung that at least one will break apart readily at any position of the cable. Current-carrying parts of connectors must be shielded to prevent accidental contact. The fixed, or wall connector, must be kept at least four feet above the floor, and if not located on switchboard or charging panel, must be protected against accidental contact.

e. Cut-outs, switches, key sockets and receptacles must be placed at least four feet above the floor, except as provided in paragraph g below.

f. All portable lights must be equipped with approved keyless sockets of moulded composition or metal-sheathed porcelain type. These sockets must be equipped with handle, hook and substantial guard.

g. Switchboards and charging panels, at or upon which are mounted devices which in operation may produce a spark, must be located in a room or enclosure provided for the purpose unless all such spark producing devices are at least four feet above the floor or surrounded by vapor proof enclosures.

h. Motors or dynamos, not actually a part of a vehicle, if not located at least four feet above the floor, must be of the fully enclosed type. Motors located four feet or more above the floor, if not of the fully enclosed type, must be provided with wire screen of not less than No. 14 mesh over openings at commutator end.

§443. Electric cranes.

All wiring, apparatus, etc., not specifically covered by special rules herein given, must conform to the general requirements of this chapter 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 limited and the distance between wires as required by § 426h 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 1 1/2 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 2 1/2 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 non-combustible material, thoroughly ventilated and so constructed that it will not permit any flames 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 non-combustible 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 in central stations, substations and transformer vaults.

Special permission in writing may be given for the installation of wires of high potential systems under such restrictions as the commissioner may prescribe.

§445. Transformers, high potential.

a. Transformers 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 fireproof material. The enclosure shall have no opening to the building except through an approved tight-fitting fire door. It shall be ventilated in some approved manner, be used only to contain the transformers and other high potential regulating devices, and be kept securely locked to prevent access by other than responsible persons. Suitable oil drains and guard sills shall be provided, as may be required by the commissioner.

c. The transformer case must be permanently and effectually grounded.

§447. Wires, extra high potential.

a. Primary wires must not be brought into or over buildings, except power stations, sub-stations and transformer vaults.

b. 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 548. Fittings, materials and details of construction.

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551. Flexible cords.
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556. Slow burning wire.
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574. Arc lamps.
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579. Auto-starters.
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581. Transformers, low potential.
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583. Electric signs (for low potential systems only).
- 584.

§548. Fittings, materials and details of construction.

The requirements and provisions of this article prescribe the general characteristics and classifications of fittings, materials and details of construction. Specifications for performance of fittings and materials, both under test and in service, shall be as prescribed from time to time by the commissioner. All fittings, materials and details of construction must be approved by the commissioner before being placed in service.

§549. Wires, general.

a. Wires, cables and cords of all kinds designed to meet the following specifica-

tions 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:

Wires described under §557 need not have the distinctive markings but are to be tagged.

1. The maximum working pressure or voltage for which the wire was tested or approved. This may be omitted for the wires described under §§555, 556 and 557 of this chapter.

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 in the following schedule for each type of insulation.

RS—Rubber coated single braided for voltage.....	0-600
RS-15—Rubber covered single braided for maximum voltage.....	1500
RS-25—Rubber covered single braided for maximum voltage.....	2500
RS-35—Rubber covered single braided for maximum voltage.....	3500
RS-50—Rubber covered single braided for maximum voltage.....	5000
RS-70—Rubber covered single braided for maximum voltage.....	7000
RD, RD15—Rubber covered double braided, etc.	
RSL—Rubber covered, single braided, leaded.	
RDL—Rubber covered, double braided, leaded.	
AC—Wires for use in armored cable.	
ACL—Leaded wires for use in armored cable.	

b. Conductors or the strands of conductors must not vary in either diameter or in conductivity more than an approved per cent. from the standards adopted by the American Institute of Electrical Engineers.

§550. Rubber-covered wire.

a. Conductors.

No individual conductor, whether solid or stranded, shall be less than No. 14 B. & S. gage in nominal size.

All conductors and the individual wires of stranded conductors shall be tinned.

b. Insulation.

Conductors shall be insulated for their entire length with a properly applied and properly vulcanized rubber compound.

The insulation must be of the nominal thickness given in the following table, the requirements of which vary according to the sizes of conductors and the maximum working pressure:

Table of Thickness of Rubber Insulation for Rubber-Covered Wires and Cables in 64th Inches.

Size of Conductor.	Type Letters.					
	RS.	RS-15.	RS-25.	RS-35.	RS-50.	RS-70.
	For Working Pressures Not Over					
	600 Volts.	1500 Volts.	2500 Volts.	3500 Volts.	5000 Volts.	7000 Volts.
American or B. & S. Gage—						
14 to 8	3	4	6	8	12	16
7 to 2	4	5	6	8	12	16
1 to 0000 C. M.	5	6	7	8	12	16
225,000 to 500,000	6	7	8	9	12	16

Use.	Type	Trade name.	Reinforcement		Outer cover.	For additional rules see
			Braid on each conductor.	or filler.		
Pendants—Dry places.....	C	Lamp cord	Glazed cotton or silk			551e
Pendants—Damp places.....	CB	Brewery cord	Cotton Wp.....			551e
	CC	Canvasite cord	Cotton Wp.....		Cotton Wp.....	551e
Portable—Dry places	P	Reinforced cord	Cotton	Rubber jacket.	Glazed cotton or silk.....	551f
	PO	Parallel cord	Cotton		Glazed cotton or silk.....	551f
	PS	Special reinf. cord.....	Cotton	Rubber jacket.	Glazed cotton or silk.....	551f
	CA	Armored cord	Cotton		Armor	
	PA	Armored reinf. cord.....	Cotton	Rubber jacket.	Glazed cotton and armor.....	
Portable—Damp places	PWp	Reinforced cord Wp.....	Cotton	Rubber jacket.	Cotton Wp.....	
	PkWp	Packhouse cord	Cotton	Filler.....	2 cotton both Wp.....	551g
	PAWp	Armored reinf. cord Ww.....	Cotton	Rubber jacket.	Cotton Wp. and armor.....	
Theatre stages	T	Stage cable	Cotton Wp.....	Filler.....	2 cotton both Wp.....	551g&h
Theatre borders	B	Border light cable.....	Cotton Wp.....		2 cotton both Wp.....	551g&i
Elevator lighting and control.....	E	Elevator cable	Cotton	Rubber jacket.	1 or more cotton, both Wp....	551g&j
				and or	3 cotton, outer one Wp.....	

e. (Types C, CB and CC.) In these classes are included flexible cords which under usual conditions hang freely in air.

f. (Types PO and PS.) These cords are for use only in offices, dwellings or similar places where not liable to rough usage.

For Type PO the conductors may be either laid parallel or twisted together.

Type PS cord may be made only with conductors of No. 18 or No. 16 B. & S. gage and may have insulation only one-sixty-fourth inch in thickness.

g. In the outer cover tape may be substituted for an inner braid.

h. (Type T.) Shall consist of not more than three conductors, each not exceeding No. 4 B. & S. gage, twisted together and with a filler. The insulation on each conductor of No. 6 to No. 4 B. & S. gage shall be one-sixteenth inch in thickness.

i. (Type B.) The conductors must be banded.

j. (Type E.) Conductors for elevator lighting cables shall not be smaller than No. 14 and for elevator control cables not smaller than No. 16 B. & S. gage.

k. For portable heating apparatus (Type H.):

This cord is for use with all smoothing and sad irons and with other heating devices requiring over 250 watts.

1. Must comply with the requirements of §549 a, b and §551b of this chapter.

2. The covering may consist of a layer of rubber or other approved material at least one-sixty-fourth inch thick (the rubber is not subject to the tests specified for other rubber compounds), a braided covering of asbestos one-thirty-second inch thick and of approved quality, an outer braid one-sixty-fourth inch thick enclosing either all the conductors as a whole or each conductor separately.

3. Other types of covering must be submitted for special examination, and approval before being used.

§552. Fixture wire.

a. Fixtures may be wired with approved flexible cord or approved rubber-covered wire.

In wiring certain fixtures (see §§430d and 435d of this chapter) conductors having approved slow-burning or other heat-resisting coverings must be used.

b. Other wires for use in fixtures (Types F-64 and F-32) must comply with the requirements of §549 a and b of this chapter, and with the requirements of paragraphs c to e inclusive of this section.

c. Conductors.

May be either solid or stranded in an approved manner and must not be smaller than No. 18 B. & S. gage.

If stranded conductor is used each conductor must be covered with a tight close wind of fine cotton or some other method must be used to prevent a broken strand puncturing the insulation. Solid conductors must be tinned.

d. Insulation.

The insulation must consist of properly applied and properly vulcanized rubber compound complying with approved physical and chemical tests.

The thickness of insulation shall not be less than one-sixty-fourth inch for No. 18 B. & S. gage wire and not less than one-thirty-second inch for No. 16 B. & S. gage.

e. Coverings.

Must be a braid which if of cotton must be at least one-sixty-fourth inch in thickness.

§553. Conduit wire.

For conduit work wires of either types RS (No. 14 to No. 8, incl.), RD, RSL or RDL must be used.

Size of Conductor.	Type Letters.					
	RS.	RS-15.	RS-25.	RS-35.	RS-50.	RS-70.
	For Working Pressures Not Over					
	600 Volts.	1500 Volts.	2500 Volts.	3500 Volts.	5000 Volts.	7000 Volts.
525,000 to 1,000,000	7	8	9	10	12	16
Over 1,000,000	8	9	10	11	14	18

c. Coverings.

All single conductor rubber-insulated wires and cables must have a covering of fibrous material applied directly to the surface of the insulating wall.

For any single conductor wire there shall be at least one braid for sizes from No. 14 to and including No. 8. For all single conductor cables larger than No. 8 there must be at least two braids or a tape and a braid.

For twin wires and twisted pair wires and for all multiple conductor cables there shall be a fibrous covering on each individual wire and in addition a braid enclosing the bunched conductors.

For certain special service conditions, one or more additional coverings of fibrous material or of lead are required.

Fibrous coverings may be either braid or tape, but tape shall not be used for the outer covering. All braids must be impregnated with a moisture-proof compound.

Lead coverings may be applied to single or multiple conductors. Lead covered multiple conductor cable with more than two conductors must, in all cases, have the conductors spirally laid.

In all cases, the individual conductors in lead covered cable must have a fibrous covering and, except for two conductor cables, with conductors parallel, there must be a fibrous covering over bunched conductors.

The thickness of lead covering shall, in all cases, be that specified for cables for the various sizes and forms.

§551. Flexible cords—for pendant lamps and for portable use, including elevator lighting and control cables, and theatre stage and border-light cables.

a. These cords and cables must comply with the requirements of §549 a and b of this chapter.

b. Conductors.

Each conductor must have a carrying capacity not less than that of a No. 18 B. & S. gage wire and be built up from wires of approved sizes.

c. Insulation.

The insulation must consist of properly applied and properly vulcanized rubber compound complying with approved physical and chemical tests.

The insulation must be of the nominal thickness given in the following table:

	Thickness Inches
B. & S. Gage 18 and 16.....	1/32
B. & S. Gage, 14 to 8.....	3/64

For exception see Type PS below (§551f, of this chapter).

d. Coverings.

Each conductor must be covered with a tight, close wind of fine cotton or some other method must be employed to prevent a broken strand puncturing the insulation.

Cords of the several types must comply with the specifications of the following table with respect to their outer protective coverings, and the special rules indicated in the last column of the table.

§554. Armored cable and cord.

a. The armored cable or cord must comply with approved tests for flexibility and for resistance to withdrawal of the conductors from the armor. The armor must comply with approved tests for weight, tensile strength and elongation.

b. Strips if used in forming the armor must be of approved thickness and if of steel must be protected against corrosion in an approved manner.

c. The conductors must comply with the requirements for rubber-covered wires or cords of the specified types and construction.

d. The cable or cord must have a distinctive marker its entire length.

§555. Slow-burning weather-proof wire.

a. The insulation must consist of two coatings, one to be fireproof and the other weather-proof. The fireproof coating must be on the outside and must comprise about six-tenths of the total thickness of the wall.

The thickness of the completed covering shall be not less than that specified for rubber insulation of 0-600 volt rubber-covered wires. (See §550b of this chapter.)

b. Must comply with the requirements of §549 a and b of this chapter.

§556. Slow-burning wire.

a. The insulation must consist of three braids of cotton or other thread, all the interstices of which must be filled with the fireproofing compound or with material having equivalent fire resisting and insulating properties. The outer braid must be specially designed to withstand abrasion, and its surface must be finished smooth and hard.

The thickness of the completed covering shall be not less than that specified for the rubber insulation of 0-600 volt rubber-covered wires. (See §550b of this chapter.)

b. Must comply with requirements of §549 a and b of this chapter.

c. Slow-burning wires especially designed and approved for use in fixtures (see §552 of this chapter) need not necessarily comply with the requirements of paragraphs a and b of this section.

§557. Weatherproof wire.

a. The insulating covering shall consist of at least three braids, all of which must be thoroughly saturated with a dense moisture-proof compound.

The thickness of the completed covering shall be not less than that specified for the rubber insulation of 0-600 volt rubber-covered wires. (See §550b of this chapter.)

b. Must comply with requirements of §549 a and b of this chapter.

§558. Metal conduits.

1. Rigid conduit.

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.

Rigid.

b. The tube used in the manufacture of the 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 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 conduit to weigh less than is given in §558i, of this chapter.

d. All surfaces of the tube must be protected against corrosion by an approved method.

e. 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.

f. 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 three-quarter inches per foot. The perfect thread must be tapered for its entire length. Couplings must be tapped straight. If threads are cut after the protecting coatings are applied they must be treated to prevent corrosion taking place before the conduit is actually installed.

g. The finished conduit as shipped must be in ten-foot lengths, with each end reamed and threaded. For each length at least one coupling must be furnished. The finished conduit with coupling must not weight 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.	Minimum Weight of 10-foot Lengths of Finished Conduit with Couplings.
Inches.	Pounds.
1/4.....	38.5
3/8.....	51.5
1/2.....	79.0
3/4.....	105
1.....	153
1 1/4.....	201
1 1/2.....	249
2.....	334
2 1/2.....	527
3.....	690
3 1/2.....	831
4.....	982
4 1/2.....	1150
5.....	1344
6.....	1770

2. Flexible conduit.

h. Must be so flexible that the conduit may be bent in a curve, the inner edge of which has a radius equal to that specified in the following table, without opening up the tube at any point:

Electrical Trade Size, Inches.	Internal Diameter, Inches.	Thickness of Strip, Inches.	Weight in Pounds Per 100 Feet.		Radius of Curvatures, Inches.
			Single Strip.	Double Strip.	
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

i. Must be of such design that after a 3-foot sample has been subjected to a tension of 200 lbs. for one minute, the conduit will not be opened up at any point.

j. 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.

k. If of steel, the metal 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.

l. Must have a distinctive marking its entire length so that the flexible conduit 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 be in all cases 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 other than flexible cords from metal conduits to exposed wiring must be provided with non-absorptive, non-combustible insulating bushings which must separately insulate each conductor. For flexible cords, such fittings, including covers of outlet boxes, must either be provided with approved bushings or have smooth, well-rounded surfaces for the cord to bear upon.

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 approved non-combustible, non-absorptive insulating material.

§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 approved non-combustible, non-absorptive insulating material.

e. Cleats must conform to the spacings given in the following table:

Voltage, 0-300. Distance from wire to surface, 1/2 inch. Distance between wires, 2 1/2 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 serve 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.

Flexible tubing must not close to prevent the insertion of the wire after the tube has been kinked or flattened and straightened out.

f. 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 2 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 1/4 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 approved non-combustible, non-absorptive insulating material.

e. Knobs must be so constructed as to separate the wire at least 1 inch from the surface wired over.

§565. Switches.

1. General Rules.

a. Switches must, when used for service switches, indicate, on inspection, whether the current be "on" or "off."

b.

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 1/2 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 1/8 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 switches designed for currents of 30 amperes or less, heavy clamps or screw and washer connections with upturned lugs may be used.

i. Knife switches must operate successfully at 50 per cent. overload in amperes and at rated 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		Minimum separation of nearest metal parts of opposite polarity.	Minimum break distance.
	Blades.	Clips and hinges.		
30 amp	1-2x6-54 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

	Inch.	Inch.	Inch.	Inch.
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 and 100 amp.....			2 1-4	2
200 amp.....			2 1-2	2 1-4
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. 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

Where barriers of approved design and made of suitable non-absorptive, non-combustible, insulating material or of impregnated hard wood are placed between parts of opposite polarity, the minimum separation of these parts on switches described in Table 5 may be that given in Table 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.

l. 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 $\frac{1}{8}$ inch. There must in no case be less than 3-64 inch space between supporting screws and current-carrying parts.

Sub-bases must be so designed as to separate the wires at least one-half inch from the surface wired over. They must be of a non-combustible, non-absorptive insulating material.

m. Pieces carrying contact jaws must be secured 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 $\frac{1}{8}$ inch and covered with a waterproof compound which will not melt below 150 degrees Fahrenheit (65 degrees Centigrade).

n.

o.

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.

t. Snap switches must be plainly marked, where the marking may be readily seen, 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 surface switches with covers constructed of porcelain or other moulded insulating material the marking may be on the inside of the cover. On all other types they must be placed on the front of the cap, cover or plate.

§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 prescribed tests. In such cases the breakers should be submitted for special examination and approval before being used.

2. Details of construction.

a. 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 $\frac{1}{2}$ 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 secured 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 $\frac{1}{8}$ inch, and cover 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.

d.

e.

f.

g. 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.

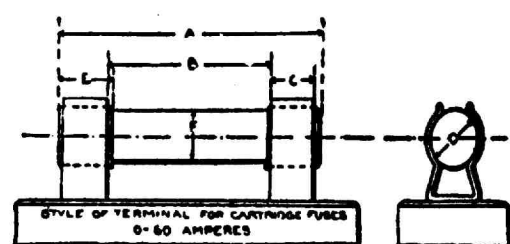
1. General rules.

a. Cut-outs must be supported on bases of non-combustible, non-absorptive, insulating material.

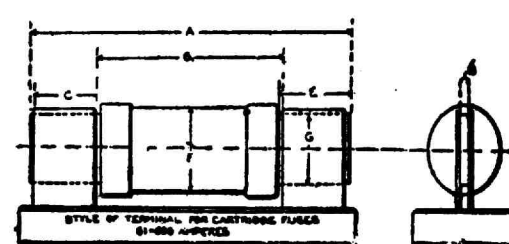
b. The design of the base must be such that, considering the material used, the base will withstand the most severe conditions liable to be met in practice.

c. Bases with an area of over twenty-five square inches must have at least four

Table of Dimensions of the National Electrical



Form 1. Cartridge fuse—ferrule contact.



Form 2. Cartridge fuse—knife blade contact.

supporting screws. Holes for supporting screws must be so located or countersunk that there will be at least one-half inch space, measured over the surface, between the screw-head or washer and the nearest live metal part, and in all cases where between parts of opposite polarity must be countersunk.

d. Nuts or screw heads on the under side of the base must be countersunk not less than one-eighth inch, and covered with a waterproof compound which will not melt below 150 degrees Fahrenheit (65 degrees Centigrade).

e. 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.

f. 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

A space must be maintained between fuse terminals of the same polarity of at least one-half inch for voltage up to 125 and of at least three-quarter inch for voltages from 126 to 250. This is the minimum distance allowable, and greater separation should be provided when practicable. For three-wire systems cut-outs must have the break-distance required for circuits of the potential of the outside wires, except that in 125-250 systems with grounded neutral the cut-outs in two-wire, 125 volt branch circuits may have the spacings specified for not over 125 volts.

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.

3. Enclosed-fuse cut-outs—plug and cartridge type.

h. 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 or 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 ".....

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; except for rosettes, attachment plugs, car-lighting cut-outs and protective devices for signal systems.

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.

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).
31-60 ".....	B. Approved plug or cartridge fuses in approved casings for Edison plug cut-outs not exceeding 125 volts, but including any circuit of a 3-wire 125-250 volt systems, with grounded neutral.
61-100 ".....	Cartridge fuse (ferrule contact) for use also in approved casings for large size Edison plug type 250-volt cut-outs.
101-200 ".....	
201-400 ".....	
401-600 ".....	

Not over 600 volts—

0-30 amps.	Cartridge fuse (ferrule contact).
31-60 ".....	Cartridge fuse (ferrule contact).
61-100 ".....	Cartridge fuse (knife blade contact).
101-200 ".....	Cartridge fuse (knife blade contact).
201-400 ".....	

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:

Code Standard Cartridge Enclosed Fuse.

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	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 1/8	Form 2.....	101-200
	201-400	Form 2....	8 5/8	5	1 3/4	1-4	1 7/8	1 5/8	Form 2.....	201-400
Not over 600.....	401-600	Form 2....	10 3/8	6	2 1/8	1-4	2 1/4	2 1/2	Form 2.....	401-600
	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	Form 2.....	61-100
	101-200	Form 2....	9 5/8	7	1 1/4	3-16	1 3/8	1 3/4	Form 2.....	101-200
	201-400	Form 2....	11 5/8	8	1 3/4	1-4	1 7/8	2 1/2	Form 2.....	201-400

h. 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.

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.

§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 1-2 inch must be provided between such live metal parts and the cabinet in which the board is mounted.

b. The following minimum distance between bare live metal parts (bus-bars, etc.) must be maintained:

At switches or enclosed fuses parts of the same polarity may be placed as close together as convenience in handling will allow.

The spacings given in the first column apply to the branch conductors where enclosed fuses are used. Where link fuses or knife switches are used, the spacings must be at least as great as those required by §§565 and 567 of this chapter.

The spacings given in the second column apply to the distance between the raised main bars and between these bars and the branch bars over which they pass.

Panel boards of special design in which the insulation and separation between bus bars and between other current carrying parts is secured by means of barriers or insulating materials instead of by the spacings given above, must be submitted for special examination and approval before being used.

c. 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 and cut-out boxes.

	Between parts of opposite polarity except at switches and link fuses.		Between parts of same polarity at link fuses.
	When mounted on the same surface.	When held free in air.	
Not over 125 volts.....	3-4 inch	1-2 inch	1-2 inch
Not over 250 volts.....	1 1-4 inch	3-4 inch	3-4 inch
Not over 600 volts.....	2 inch	1 3-4 inch	.....

a. Cabinets are intended for enclosing feeder and circuit branch panelboards and similar devices. They may be designed for either surface or flush mounting and are usually provided with removable frames or matts, trims, etc., in which the swinging doors are hung; when for the enclosure of apparatus connected within the cabinet to the wires of more than four circuits they shall have a back wiring space or one or more side wiring spaces, side gutters or wiring compartments unless the wires leave the cabinet directly opposite their terminal connections. When intended for installation out-of-doors they must be of the weatherproof pattern.

b. Cut-out boxes are intended for enclosing single devices or combinations of devices connected within the cut-out box to the wires of not more than four circuits and usually are designed for surface mounting, having swinging doors or covers secured directly to the wall of the box. When intended for installation out-of-doors they must be of the weatherproof pattern.

c. Design and construction of all cabinets and cut-out boxes must be such as to insure ample strength and rigidity.

d. The spacing within cabinets and cut-out boxes must be sufficient to provide ample room for the distribution of wires and cables placed in them, and for a separation between metal parts of cabinets or cut-out boxes and current carrying parts of devices and apparatus mounted within them as follows:

1. There must be an air space of at least 1-16 inch, except at points of support, between the base of the device and the wall of any metal cabinet or cut-out box on which the device is mounted.

2. There must be an air space of at least one inch between any enclosed fuse or current-carrying part and the door, unless the door is lined with an approved insulating material or is of a thickness at least that of No. 12 U. S. gauge when the air space must be not less than one-half inch.

3. There must be a space of at least two inches between open link fuses and metal or glass of walls or doors.

4. Except as noted above there must be an air space of at least one-half inch between the walls, back, gutter partition, if of metal, or door of any cabinet or cut-out box and the nearest exposed current-carrying part of devices mounted within the cabinet where the potentials do not exceed 250 volts. This spacing must be increased to at least one inch where the potentials exceed 250 volts.

5. Cabinets and cut-out boxes must be deep enough to allow the doors to be closed when 30-ampere branch circuit panelboard switches having spool or composition handles or when switches of combination cut-outs are in any position, and when other single throw switches are thrown open as far as their construction and installation will permit.

6. Cabinets having one or more side wiring spaces, side gutters or side wiring compartments must be furnished with covers, barriers or partitions extending around or from the side or sides of all bases or groups of bases of the switches, cut-outs, circuit breakers or feeder and circuit branch panelboards within the cabinet and providing a close fit with the door, frame or sides of the cabinet so as to enclose these spaces, gutters or compartments and the wires stowed within them. At sides where wires or cables are led from the cabinet at points directly opposite their terminal connections to devices or apparatus within the cabinet, and other wires or cables are not placed, these covers, barriers or partitions may be omitted.

When cabinets have back wiring spaces which are not entirely enclosed, covers must be furnished to provide equivalent enclosure.

§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 ¾ 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 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 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.

g. Rosettes must be plainly marked where the marking 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.

h. §572. Sockets, including lamp receptacles.

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 inches nominal sizes, with ratings as specified in the following table:

Class.	Nominal diam.	Ratings.					
		Key.			Keyless.		
		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	
Nogul	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 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 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 .013 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. 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 inch 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 and medium sized 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 parts to which wiring connections are made must be designed to securely grip the conductors. An upturned lug or some equivalent arrangement must be provided to hold the wires under the screw heads.

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 loosen under the most severe conditions they are likely to meet with in practice. The base must be held in such a manner as to prevent turning or displacement relative to the shell.

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 $\frac{3}{4}$ inch in the clear. The wires must be stranded and have approved insulating coverings.

q. Where a socket is not attached to a fixture, the inlet must be provided with an approved insulating bushing which, if threaded, must be not less than 9-32 inch pipe size. The edges of bushings must be rounded and all inside fins removed so that in no case will the cord be subjected to the cutting or wearing action of a sharp edge.

Bushings should have holes not less than 9-32 inch in diameter for plain pendant cord, and 13-32 inch in diameter for reinforced cord.

§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. Terminals must be designated 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.

§576. Insulating joints.

a. Insulating joints must be made of approved materials both for metal and other parts, including the finishing materials for exterior and interior surfaces. Except for studs designed to be mounted with screws or bolts, they must have a substantial exterior metal casing insulated from both screw connections; they must be threaded in an approved manner; and they must comply with the prescribed tests for heat, leakage, dielectric strength, torsion and bending.

b. Each joint and stud must be marked with the name or trade-mark of the manufacturer.

§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.

In all fixtures not made entirely of metal, wireways must be metal lined unless approved armored conductors with suitable fittings are used. An exception is made in the case of wireways in glass, marble or similar non-absorptive, non-combustible insulating materials.

All arms must be reliably secured, to prevent turning by threading and soldering, brazing, threading locked by set screw or an equivalent method.

With screw joints of arms and stems there must be not less than five threads all engaging at fixture supports, fixture bodies, etc.

All methods of fastening arms or making joints between metal parts by threading, brazing or otherwise, must be such as to secure in every case ample strength and reliability.

Sockets must, except on pendant cords, be attached to the metal of the fixtures and must be secured in a reliable and permanent manner by threading locked by set-screws or brazing or an equivalent method.

All burrs and fins in wireways must be removed and all sharp edges at points where wires emerge from arms, stems, chains, etc., must, when 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 casings of fixture stems in either straight electric or combination gas and electric fixtures, there must be suitable fittings having smooth, rounded edges to prevent injury to the wire coverings and to prevent the wires from coming into contact with the edges of the ends of casings.

Fixtures for installation outdoors or where exposed to moisture must be so constructed that water cannot enter the wireways, sockets or other electrical parts.

b. Conductors must be not smaller than No. 18 B. & S. gage.

On chains or similar parts where conductors are not completely enclosed in metal, the conductors must be stranded and must have rubber insulation not less than 1-32 inch in thickness. Wires and flexible cords must, when fixtures are externally wired, be so secured as not to be cut or abraded by the pressure of the fastenings or motion of the fixture, and must be protected against abrasion where they pass through sheet metal pans, canopies, etc.

Conductors 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, i. e., with both rubber and friction tape. Wires must, within the arms and stems, be without splices and taps, i. e., it should not be necessary to withdraw the wires to inspect splices and taps.

Receptacles must be so installed as to afford permanent and reliable means to prevent possible turning relative to the surfaces on which they are mounted.

Receptacles having exposed terminals must not be used in canopies unless completely enclosed in metal.

c. Tubing used in threaded arms and stems must not be lighter than No. 18 B. & S. gage. The thickness of unthreaded arms will depend largely upon the method used, and all methods of fastening arms or stems must be such as to secure in every case strength equivalent to that of a threaded connection. Such methods must be submitted for examination, test and approval. Tubing should not be kinked, flattened or cracked.

Canopies must be made sufficiently large, except where outlet boxes are used, to permit the stowing away of splices to fixture leads and to allow supply conductors, and especially the splices to be kept clear of the grounded part of gas pipes.

All methods of fastening arms or stems to fixture supports must be such as to secure in every case strength equivalent to that of a threaded connection.

Conductors used in wiring fixtures must be of approved fixture wire, approved flexible cord, or approved rubber-covered wire, excepting that conductors having approved slow-burning or other heat-resisting coverings must be used in wiring fixtures in which the wiring is exposed, from the heat of lamps to temperatures in excess of 120 degrees Fahr. (49 degrees Centigrade). All such forms of fixtures must be submitted for examination, test and approval before being introduced for use.

All fixtures should, where possible, be sufficiently ventilated to avoid exposing the wiring to high temperatures, and the wiring of fixtures should be so disposed as to be kept as free as possible from excessive temperatures.

All electrical fittings (including insulating joints, sockets, receptacles, switches, attachment plugs, etc.) must be of approved types.

Canopy insulators must be of approved types. They 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. A strip of a good grade of hard fibre 1-16 inch thick, permanently attached to the canopy at the ends, and at intermediate points, in such a manner that the strip will permanently extend at least 3-16 inch beyond the entire upper edge of the canopy rim, will be acceptable. Where the above construction is impracticable a sheet of a good grade of hard fibre 1-16 inch thick, permanently attached to the canopy and cut to conform to the general outline of the canopy and with the edges of the sheet at least flush with the edges of the canopy will be acceptable. The insulating strip or sheet must be secured by rivets or screws and the rivets or screws must be so located or countersunk that the desired effective insulation distance is obtained.

d. Tests.

Each fixture (after wiring and assembly) must be tested with a magneto which

will ring through a resistance of at least 50,000 ohms and show no short circuits between conductors or contacts between conductors and metal parts of fixtures.

c. Markings.

Each fixture must be marked with the manufacturer's name or trade-mark.

§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 insulating material. Holes for the supporting screws which secure this material in position must be so located or countersunk that there will be at least one-half inch space, measured over the surface, between the head of the screw or washer and the nearest live metal part.

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 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 arm 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 $\frac{1}{3}$ 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.

§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 of at least $\frac{1}{4}$ 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. When such device carries a visual oil indicator, the marking shall be for the proper oil level with the starter assembled. If the visual indicator is not used, markings shall indicate the oil level prior to assembling. 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 terminals must be so designed as to insure a thoroughly good connection and must be sufficiently strong and heavy to withstand 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.

§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, low potential.

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 low voltage windings as specified below. Sheet metal cases must be not less than 1-32 inch in thickness, and cast iron must be not less than 1-8 inch in thickness. Such 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 one-fourth of an inch between the transformer casing and the supporting surface will be required.

Leads of approved cable at least 6 inches in length and so secured as to prevent strain coming on the connections to the coils, must be brought out of the case through approved insulating bushings, except for bell-ringing and toy transformers, the low voltage terminals of which may be binding posts mounted on the case.

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 high voltage and all low voltages, and the rated capacity in kilo-volt-amperes.

2. Bell ringing or other signaling transformers.

d. Transformers for bell-ringing or other signaling service only must be constructed in accordance with the requirements of paragraph a of this section, and may be approved for use when all wiring on the high voltage side is in accordance with the requirements of article 4 of this chapter.

e. Such transformers must be plainly marked where it can be seen after installation, with the name of the manufacturer, the frequency, the high voltage and all low voltages, and the proper terminals must be marked "Line" and "Bell." The rating of high voltage winding must not be over 125 volts.

f. The design of the transformer must be such that when any two low voltage terminals are short circuited while the rated voltage is impressed on the high voltage coil, the input measured by a wattmeter in the high voltage circuit will not be more than 25 watts.

3. Toy transformers.

g. Transformers for operating toys must be constructed in accordance with the requirements of paragraph a of this section.

h. Such transformers must be marked with the name of the manufacturer, high and all low voltages, the frequency and the rated capacity in volt-amperes.

The high voltage rating must not exceed 125 volts, nor the low voltage rating exceed 25 volts.

i. Such transformers must be so constructed as to stand the following test:

With the high voltage coil connected to a circuit of the rated voltage and frequency and with the low voltage coils short circuited, the input as measured by wattmeter must not exceed 250 watts. When so connected, and run until constant temperature is reached or until burnout occurs, the case must not be injured and there must be no escape of flames or molten metal.

§582. Lightning arresters.

a. Lightning arresters must be of approved construction.

§583. Electric signs (for low potential systems only).

a. Electric signs shall be constructed entirely of metal, or other incombustible material, except the insulation or the wires. Sheet metal must be not less than 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 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. Transformers, unless of weatherproof type, cut-outs, flashers and other similar devices on or within the sign structure, must be enclosed in approved cut-out boxes or cabinets, except that if on or within the sign structure they may be placed in a separate, completely enclosed 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 $\frac{1}{4}$ 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 $\frac{1}{2}$ 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. 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 $4\frac{1}{2}$ 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 separation and spacing equivalent to the receptacles, must be used. Except as above specified wires must be kept apart at least $2\frac{1}{2}$ 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 material.

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. Exception.

All wiring, apparatus and devices of signaling systems used for the transmission of intelligence as to fire, shall conform to such rules and regulations as the fire commissioner may prescribe.

2. 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.

3. 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.

4. 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.

1. 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 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 lighting 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 any 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.

5. 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 closer 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 cable 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 stop 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 signalling 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 to 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 plate, not less than $2\frac{1}{2}$ inches in length parallel to the gap, and $1\frac{1}{2}$ inches the other way with a thickness of not less than $\frac{1}{8}$ inch mounted upon non-combustible, non-absorptive insulating material of such dimensions as to give ample strength. 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 $\frac{1}{2}$ 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, except under special permission in writing.

§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 $\frac{1}{2}$ the resistance specified in the table will be required.

Section 2. This ordinance shall take effect immediately.

Adopted by the Board of Aldermen May 16, 1916.

Received from his Honor the Mayor May 29, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 240.

Resolution to Establish the Grade of Position of Auto Truck Driver and Rejecting the Establishment of the Grade of Position of Chauffeur in the Department of Education.

Whereas, The Board of Estimate and Apportionment adopted the following resolution at a stated meeting held March 31, 1916:

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 Education of the grades of positions, in addition to those heretofore established, as follows:

Title.	Rate per Annum.	Number of Incumbents.
Chauffeur	\$1,080 00	One
Auto Truck Driver	960 00	One

Resolved, That the Board of Aldermen hereby approves of and concurs in so much of the above resolution as relates to the grade of position of "Auto-Truck Driver" for one incumbent at the rate of \$960.00 per annum, and fixes the salary of said position as set forth therein, and rejects so much of the said resolution as relates to the grade of position of "Chauffeur" for one incumbent at the rate of \$1,080.00 per annum.

Adopted by the Board of Aldermen May 16, 1916.

Received from his Honor the Mayor May 29, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 241.

Resolution for Special Revenue Bonds, \$2,600, for the Purpose of Reconstructing Laboratory Tables in the Chemistry Hall of the College of The City of New York.

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 six hundred dollars (\$2,600), the proceeds whereof to be used by the Trustees, College of The City of New York, for the purpose of reconstructing laboratory tables in the Chemistry Hall. All obligations contracted for hereunder to be incurred on or before December 31, 1916.

Adopted by the Board of Aldermen May 16, 1916.

Received from his Honor the Mayor May 29, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 242.

Resolution to Authorize the Commissioner of Public Charities to Install a Mechanical Draft Equipment at Sea View Hospital Without Public Letting.

Resolved, That, in pursuance of the provisions of section 419 of the Greater New York Charter, the Commissioner of Public Charities be and he is hereby authorized and empowered to enter into contract, without public letting, for the installation of mechanical draft equipment at Sea View Hospital at a cost not to exceed two thousand dollars (\$2,000).

Adopted by the Board of Aldermen May 16, 1916.

Received from his Honor the Mayor May 29, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 243.

Resolution to Authorize the President of the Borough of Manhattan to Purchase Materials for Repairs to the Riverside Drive Viaduct Without Public Letting.

Resolved, That in pursuance of the provisions of section 419 of the Greater New York Charter, the President of the Borough of Manhattan be and he is hereby authorized and empowered to purchase in the open market, without public letting, the various kinds of materials necessary to the work of repairs on the Riverside Drive Viaduct between 127th and 135th Streets, to an amount not to exceed Thirty-seven hundred dollars (\$3,700).

Adopted by the Board of Aldermen May 16, 1916.

Received from his Honor the Mayor May 29, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 244.

Resolution for Special Revenue Bonds, \$2,500, for Equipment of Record and Equity Department of the Office of the County Clerk of Bronx County.

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 County Clerk, Bronx County, for the purpose of purchasing and installing office equipment of Record and Equity Department. All obligations contracted for hereunder to be incurred on or before December 31, 1916.

Adopted by the Board of Aldermen May 16, 1916.

Received from his Honor the Mayor May 29, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 245.

Resolution for Special Revenue Bonds, \$2,630, for Repairing and Renewing Street Signs in the Borough of Richmond.

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 six hundred and thirty dollars (\$2,630), the proceeds whereof to be used by the President of the Borough of Richmond for the purpose of repairing and renewing street signs; all obligations contracted for hereunder to be incurred on or before December 31, 1916.

Adopted by the Board of Aldermen May 16, 1916.

Received from his Honor the Mayor May 29, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 246.

Resolution to Amend an Issue of Corporate Stock, \$25,000, for Construction of a Gravity Water System, Including Completion of Reservoir, at the Tuberculosis Sanatorium, Otisville, New York.

Resolved, That the Board of Aldermen hereby approves of and concurs in the following amended resolution adopted by the Board of Estimate and Apportionment at a stated meeting held April 28, 1916:

Resolved, That, subject to concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment on June 26, 1913, and concurred in by the Board of Aldermen on July 15, 1913, which authorized an issue of twenty-five thousand dollars (\$25,000) corporate stock, to provide means for the construction of a gravity water system, including completion of reservoir, at the Tuberculosis Sanatorium, Otisville, N. Y., under the jurisdiction of the Department of Health, be and the same is hereby amended by adding after the words "including completion of reservoir," the words "and the erection of a wire fence to enclose the property of the reservoir."

Adopted by the Board of Aldermen May 16, 1916.

Received from his Honor the Mayor May 29, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 247.

Resolution to Fix the Compensation of Certain Janitors in the Department of Education.

Whereas, The Board of Estimate and Apportionment adopted the following resolution at a stated meeting held April 28, 1916:

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

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

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the 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 3, Manhattan, per annum, less \$221.....	\$3,588 00
Janitor, Public School 48, Manhattan, per annum, less \$299.....	1,680 00
Janitor, Public School 41, The Bronx, per annum, less \$221.....	1,998 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.

Adopted by the Board of Aldermen May 16, 1916.

Received from his Honor the Mayor May 29, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 248.

Resolution to Authorize the Clerk of the Board of Assessors to Draw Upon the Comptroller on Account of Minor and Incidental Expenses.

Resolved, That, in order to defray minor and incidental expenses contingent to the office of the Board of Assessors, the Clerk of said Board may, by requisition, draw upon the Comptroller for a sum not to exceed one hundred dollars (\$100), and may, in like manner, renew the draft as often as may be deemed necessary to the extent of the appropriation set apart for contingencies in the office of the Board of Assessors; but no such renewal shall be made until the money paid upon the preceding draft shall have been accounted for by the Comptroller by the transmittal of a voucher or vouchers, certified by the Clerk of the Board of Assessors, covering the expenditure of the money paid thereon.

Adopted by the Board of Aldermen May 16, 1916.

Received from his Honor the Mayor May 29, 1916, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 249.

Apportionment of the Several Counties Embraced Within The City of New York Into Assembly Districts.

Whereas, Article three of the Constitution of the State of New York provides that in any city embracing an entire county and having no board of supervisors, the body exercising the powers of a common council shall assemble at such times as the Legislature making an apportionment of Assembly Districts in the State shall prescribe, and divide any such county into Assembly Districts as nearly equal in number of inhabitants, excluding aliens, as may be of convenient and contiguous territory, in as compact form as practicable, each of which shall be wholly within a Senate District formed under the same apportionment, and are to be equal in number to the members of Assembly to which such county shall be entitled, and

Whereas, by the provisions of chapter 373 of the Laws of 1916 it is made the duty of the Board of Aldermen of The City of New York to meet on the 23d day of May, 1916, and proceed to divide the respective counties in such City into so many Assembly Districts as they are entitled respectively to Members of Assembly under said law, therefore be it

Resolved, pursuant to article 3, section 5 of the Constitution of the State of New York, and the provisions of chapter three hundred and seventy-three of the Laws of 1916, the Board of Aldermen of The City of New York do hereby divide the several counties respectively within such city into Assembly Districts, numbered, bounded and described as hereinafter specified.

Resolved, That certificates be prepared to be duly filed, signed by a majority of the Aldermen of said city, stating the number and descriptive boundary lines of each Assembly District, with the number of inhabitants therein, exclusive of aliens.

New York County.

First district. The first assembly district shall consist of that portion of the thirteenth senate district within and bounded by a line beginning at the junction of the Hudson River and Canal Street, and running thence along Canal Street to West Broadway, along West Broadway to Grand Street, along Grand Street to Broadway, along Broadway to Broome Street, along Broome Street to Forsyth Street, along Forsyth Street to Stanton Street, along Stanton Street to Chrystie Street, along Chrystie Street to Second Avenue, along Second Avenue to East Third Street, along East Third Street to Great Jones Street, along Great Jones Street to West Third Street, along West Third Street to Sixth Avenue, along Sixth Avenue to West Washington Place, along West Washington Place to West Fourth Street, along West Fourth Street to Christopher Street, along Christopher Street to Bleeker Street, along Bleeker Street to Eighth Avenue, along Eighth Avenue to West Twelfth Street, along West Twelfth Street to Greenwich Avenue, along Greenwich Avenue to Eighth Avenue, along Eighth Avenue to West Nineteenth Street, along West Nineteenth Street to Hudson River, and thence along the Hudson River to Canal Street, the place of beginning.

81,363 inhabitants, excluding aliens.

Second district. The second assembly district shall consist of that portion of the thirteenth senate district within and bounded by a line beginning at the junction of the East River and Jackson Street, and running thence along Jackson Street to Madison Street, along Madison Street to Gouverneur Street, along Gouverneur Street to Grand Street, along Grand Street to Clinton Street, along Clinton Street to East Broadway, along East Broadway to Canal Street, along Canal Street to Chrystie Street, along Chrystie Street to Broome Street, along Broome Street to Broadway, along Broadway to Grand Street, along Grand Street to West Broadway, along West Broadway to Canal Street, along Canal Street to the Hudson River and along the Hudson River and around the southern end of Manhattan Island to the East River; thence along the East River to Jackson Street, the place of beginning, including Governor's, Bedloe's, Ellis and Oyster Islands.

81,363 inhabitants, excluding aliens.

Third district. The third assembly district shall consist of that portion of the twelfth senate district within and bounded by a line beginning at the corner of Canal and Chrystie Streets, along Canal Street to Ludlow Street; thence along Ludlow Street to East Houston Street, along East Houston Street to Avenue A, along Avenue A to East Ninth Street, along East Ninth Street to First Avenue, along First Avenue to East Thirteenth Street, along East Thirteenth Street to Second Avenue, along Second Avenue to East Fourteenth Street, along East Fourteenth Street to Fourth Avenue, along Fourth Avenue to Astor Place, along Astor Place to Lafayette Street, along Lafayette Street to Great Jones Street, along Great Jones Street to East Third Street, along East Third Street to Second Avenue, along Second Avenue to Chrystie Street, along Chrystie Street to Stanton Street, along Stanton Street to Forsyth Street, along Forsyth Street to Broome Street, along Broome Street to Chrystie Street, along Chrystie Street to Canal Street, the place of beginning.

55,258 inhabitants, excluding aliens.

Fourth district. The fourth assembly district shall consist of that portion of the twelfth senate district within and bounded by a line beginning at the junction of the East river and Jackson street and running thence along Jackson street to Madison street; along Madison street to Gouverneur street; along Gouverneur street to Grand street; along Grand street to Clinton street; along Clinton street to East Broadway; along East Broadway to Canal street; along Canal street to Ludlow street; along Ludlow street to East Houston street; along East Houston street to Attorney street; along Attorney street to Stanton street; thence along Stanton street to the East river and along the East river to the foot of Jackson street, the place of beginning.

54,091 inhabitants, excluding aliens.

Fifth district. The fifth assembly district shall consist of that portion of the seventeenth senate district within and bounded by a line beginning at the corner of Sixth avenue and West Third street; thence along West Third street and Great Jones street to Lafayette street; along Lafayette street to Astor place; along Astor place to Fourth avenue; along Fourth avenue to East Fourteenth street; along East Fourteenth street to Irving place; along Irving place to East Eighteenth street; along East Eighteenth street to Third avenue; along Third avenue to East Twenty-third street; along East Twenty-third street to Lexington avenue; along Lexington avenue to East Fifty-fifth street; along East Fifty-fifth street to Park avenue; along Park avenue to East Fifty-fourth street; along East and West Fifty-fourth street to Eighth avenue; along Eighth avenue to West Thirty-eighth street; along West Thirty-eighth street to Seventh avenue; along Seventh avenue to West Thirteenth street; along West Thirteenth street to Greenwich avenue; along Greenwich avenue to West Twelfth street; along West Twelfth street to Eighth avenue; along Eighth avenue to Bleeker street; along Bleeker street to Christopher street; along Christopher street to West Fourth street; along West Fourth street to West Washington place; along West Washington place to Sixth avenue, and along Sixth avenue to West Third street, the place of beginning.

54,761 inhabitants, excluding aliens.

Sixth district. The sixth assembly district shall consist of that portion of the twelfth senate district within and bounded by a line beginning at the junction of the East river and Stanton street; thence along Stanton street to Attorney street; along Attorney street to East Houston street; along East Houston street to Avenue A; along Avenue A to East Ninth street; along East Ninth street to First avenue; along First avenue to East Twelfth street; along East Twelfth street to Avenue C; along Avenue C to Eleventh street; along Eleventh street to Avenue D; along Avenue D to East Tenth street; along East Tenth street to the East river, and along the East river to the foot of Stanton street, the place of beginning.

54,754 inhabitants, excluding aliens.

Seventh district. The seventh assembly district shall consist of that portion of the fifteenth senate district within and bounded by a line beginning at the junction of the Hudson River and West Nineteenth Street; and running thence along West Nineteenth Street to Eighth Avenue, along Eighth Avenue to Greenwich Avenue, along Greenwich Avenue to West Thirteenth Street, along West Thirteenth Street to Seventh Avenue, along Seventh Avenue to West Thirty-eighth Street, along West Thirty-eighth Street to Eighth Avenue, along Eighth Avenue to West Forty-sixth Street, along West Forty-sixth Street to Tenth Avenue, along Tenth Avenue to West Forty-fifth Street, along West Forty-fifth Street to Eleventh Avenue, along Eleventh Avenue to West Forty-fourth Street, along West Forty-fourth Street to the Hudson River, and thence along the Hudson River to West Nineteenth Street, the place of beginning.

81,572 inhabitants, excluding aliens.

Eighth district. The eighth assembly district shall consist of that portion of the fourteenth senate district within and bounded by a line beginning at the junction of the East River and East Tenth Street; thence along East Tenth Street to Avenue D, along Avenue D to East Eleventh Street, along East Eleventh Street to Avenue

C, along Avenue C to East Twelfth Street, along East Twelfth Street to First Avenue, along First Avenue to East Thirteenth Street, along East Thirteenth Street to Second Avenue, along Second Avenue to East Fourteenth Street, along East Fourteenth Street to Irving Place, along Irving Place to East Eighteenth Street, along East Eighteenth Street to Third Avenue, along Third Avenue to East Twenty-third Street, along East Twenty-third Street to Lexington Avenue, along Lexington Avenue to East Thirtieth Street, along East Thirtieth Street to Second Avenue, along Second Avenue to East Thirty-first Street, along East Thirty-first Street to the East River; thence along the East River to the foot of East Tenth Street, the place of beginning.

54,330 inhabitants, excluding aliens.

Ninth district. The ninth assembly district shall consist of that portion of the fifteenth senate district within and bounded by a line beginning at the junction of the Hudson River and West Forty-fourth Street, and running thence along West Forty-fourth Street to Eleventh Avenue, along Eleventh Avenue to West Forty-fifth Street, along West Forty-fifth Street to Tenth Avenue, along Tenth Avenue to West Forty-sixth Street, along West Forty-sixth Street to Eighth Avenue, along Eighth Avenue to Central Park West, along Central Park West to West Seventieth Street, along West Seventieth Street to Columbus Avenue, along Columbus Avenue to West Sixty-fourth Street, along West Sixty-fourth Street to Amsterdam Avenue, along Amsterdam Avenue to West Seventieth Street, along West Seventieth Street to West End Avenue, along West End Avenue to West Seventy-first Street, along West Seventy-first Street to the Hudson River, and thence along the Hudson River to West Forty-fourth Street, the place of beginning.

81,670 inhabitants, excluding aliens.

Tenth district. The tenth assembly district shall consist of that portion of the fourteenth senate district within and bounded by a line beginning at the junction of the East River and East Thirty-first Street; thence along East Thirty-first Street to Second Avenue; along Second Avenue to East Thirtieth Street; along East Thirtieth Street to Lexington Avenue; along Lexington Avenue to East Fifty-sixth Street; along East Fifty-sixth Street to Third Avenue; along Third Avenue to East Fifty-third Street; along East Fifty-third Street to First Avenue; along First Avenue to East Fifty-fourth Street; thence along East Fifty-fourth Street to the East River, and along the East River to the foot of East Thirty-first Street, the place of beginning, also Blackwell's island.

54,967 inhabitants, excluding aliens.

Eleventh district. The eleventh assembly district shall consist of that portion of the seventeenth senate district within and bounded by a line beginning at the junction of the Hudson River and West Seventy-first Street; along West Seventy-first Street to West End Avenue; along West End Avenue to West Seventieth Street; along West Seventieth Street to Amsterdam Avenue; along Amsterdam Avenue to West Sixty-fourth Street; along West Sixty-fourth Street to Columbus Avenue; along Columbus Avenue to West Seventieth Street; along West Seventieth Street to Central Park West; along Central Park West to West Eighty-third Street; along West Eighty-third Street to Columbus Avenue; along Columbus Avenue to West Ninety-third Street; along West Ninety-third Street to Central Park West; along Central Park West to West Ninety-eighth Street; along West Ninety-eighth Street to Broadway; along Broadway to West Ninety-first Street; along West Ninety-first Street to the Hudson River, thence along the Hudson River to the foot of West Seventy-first Street and the Hudson River, the place of beginning.

54,288 inhabitants, excluding aliens.

Twelfth district. The twelfth assembly district shall consist of that portion of the fourteenth senate district within and bounded by a line beginning at the East River and Fifty-fourth Street; thence along East Fifty-fourth Street to First Avenue; along First Avenue to East Fifty-third Street; along East Fifty-third Street to Third Avenue; along Third Avenue to East Seventy-third Street; along East Seventy-third Street to Second Avenue; along Second Avenue to East Seventy-fourth Street; along East Seventy-fourth Street to First Avenue; along First Avenue to East Seventy-third Street; thence along East Seventy-third Street to the East River, and along the East River to the foot of East Fifty-fourth Street, the point or place of beginning.

55,042 inhabitants, excluding aliens.

Thirteenth district. The thirteenth assembly district shall consist of that portion of the seventeenth senate district within and bounded by a line beginning at the junction of Eighth Avenue and West Fifty-fourth Street; thence along West and East Fifty-fourth Street to Park Avenue; along Park Avenue to East Fifty-fifth Street; along East Fifty-fifth Street to Lexington Avenue; along Lexington Avenue to East Fifty-sixth Street; along East Fifty-sixth Street to Third Avenue; along Third Avenue to East Seventy-fourth Street; along East Seventy-fourth Street to Lexington Avenue; along Lexington Avenue to East Ninety-seventh Street; along East Ninety-seventh Street to Park Avenue; along Park Avenue to East One Hundred and Second Street; along East One Hundred and Second Street to Fifth Avenue; along Fifth Avenue to Ninety-seventh Street; thence through the transverse road across Central Park to Central Park West; along Central Park West to West Ninety-third Street; along West Ninety-third Street to Columbus Avenue; along Columbus Avenue to West Eighty-third Street; along West Eighty-third Street to Central Park West; thence along Central Park West and Eighth Avenue to West Fifty-fourth Street, the place of beginning.

55,209 inhabitants, excluding aliens.

Fourteenth district. The fourteenth assembly district shall consist of that portion of the sixteenth senate district within and bounded by a line beginning at the junction of the East River and East Seventy-third Street and running thence along East Seventy-third Street to First Avenue; along First Avenue to East Seventy-fourth Street; along East Seventy-fourth Street to Second Avenue; along Second Avenue to East Seventy-third Street; along East Seventy-third Street to Third Avenue; along Third Avenue to East Seventy-fourth Street; along East Seventy-fourth Street to Lexington Avenue; along Lexington Avenue to East Eighty-ninth Street; along East Eighty-ninth Street to Avenue A; along Avenue A to East Eighty-eighth Street; along East Eighty-eighth Street to the East River and thence along the East River to East Seventy-third Street, the place of beginning.

81,599 inhabitants, excluding aliens.

Fifteenth district. The fifteenth assembly district shall consist of that portion of the nineteenth senate district within and bounded by a line beginning at the junction of the Hudson River and West Ninety-first Street; along West Ninety-first Street to Broadway; along Broadway to West Ninety-eighth Street; along West Ninety-eighth Street to Central Park West; along Central Park West to West One Hundred and Seventh Street; along West One Hundred and Seventh Street to Manhattan Avenue; along Manhattan Avenue to West One Hundred and Eighth Street; along West One Hundred and Eighth Street to Columbus Avenue and Morningside Avenue west to West One Hundred and Thirteenth Street; along West One Hundred and Thirteenth Street to Broadway; along Broadway to Cathedral Parkway or West One Hundred and Tenth Street; along West One Hundred and Tenth Street or Cathedral Parkway to the Hudson River; thence along the Hudson River to the foot of West Ninety-first Street, the place of beginning.

54,133 inhabitants, excluding aliens.

Sixteenth district. The sixteenth assembly district shall consist of that portion of the sixteenth senate district within and bounded by a line beginning at the junction of the East River and East Eighty-eighth Street and running thence along East Eighty-eighth Street to Avenue A, along Avenue A to East Eighty-ninth Street, along East Eighty-ninth Street to Lexington Avenue, along Lexington Avenue to East Ninety-seventh Street, along East Ninety-seventh Street to Park Avenue, along Park Avenue to East One Hundred and Second Street, along East One Hundred and Second Street to Fifth Avenue, along Fifth Avenue to East One Hundred and Tenth Street, along East One Hundred and Tenth Street to Third Avenue, along Third Avenue to East One Hundred and Sixth Street, along East One Hundred and Sixth Street to the Harlem River, and thence along the Harlem and East Rivers to East Eighty-eighth Street, the place of beginning.

81,681 inhabitants, excluding aliens.

Seventeenth district. The seventeenth assembly district shall consist of that portion of the nineteenth senate district within and bounded by a line beginning at the corner of Central Park West and Ninety-seventh Street, running through the transverse road at West Ninety-seventh Street across Central Park to Fifth Avenue, along Fifth Avenue to One Hundred and Tenth Street, along West One Hundred and Tenth Street to Lenox Avenue, along Lenox Avenue to West One Hundred and Eleventh Street, along West One Hundred and Eleventh Street to Fifth Avenue, along Fifth Avenue to One Hundred and Twenty-fifth Street, along East One Hundred and Twenty-fifth Street to Madison Avenue, along Madison Avenue to East

One Hundred and Twenty-seventh Street, along East and West One Hundred and Twenty-seventh Street to Lenox Avenue, along Lenox Avenue to West One Hundred and Twentieth Street, along West One Hundred and Twentieth Street to Manhattan Avenue, along Manhattan Avenue to West One Hundred and Thirteenth Street, along West One Hundred and Thirteenth Street to Morningside Avenue west, along Morningside Avenue west and Columbus Avenue to West One Hundred and Eighth Street, along West One Hundred and Eighth Street to Manhattan Avenue, along Manhattan Avenue to West One Hundred and Seventh Street, along West One Hundred and Seventh Street to Central Park West, and along Central Park West to West Ninety-seventh Street, the place of beginning.

54,834 inhabitants, excluding aliens.

Eighteenth district. The eighteenth assembly district shall consist of that portion of the eighteenth senate district within and bounded by a line beginning at the junction of the Harlem River and East One Hundred and Sixth Street and running thence along East One Hundred and Sixth Street to Third Avenue, along Third Avenue to East One Hundred and Tenth Street, along East One Hundred and Tenth Street to West One Hundred and Tenth Street, along West One Hundred and Tenth Street to Lenox Avenue, along Lenox Avenue to West One Hundred and Eleventh Street, along West One Hundred and Eleventh Street to Fifth Avenue, along Fifth Avenue to East One Hundred and Nineteenth Street, along East One Hundred and Nineteenth Street to Park Avenue, along Park Avenue to East One Hundred and Twenty-first Street, along East One Hundred and Twenty-first Street to Second Avenue, along Second Avenue to East One Hundred and Twenty-second Street, along East One Hundred and Twenty-second Street to Pleasant Avenue, along Pleasant Avenue to East One Hundred and Twenty-third Street, along East One Hundred and Twenty-third Street to the Harlem River, thence along the Harlem River to East One Hundred and Sixth Street, the place of beginning, including Wards and Randalls Islands and the Sunken Meadow.

Population, 81,321, excluding aliens.

Nineteenth District. The nineteenth assembly district shall consist of that portion of the twentieth senate district within and bounded by a line beginning at the Hudson River and West One Hundred and Tenth Street or Cathedral Parkway, along West One Hundred and Tenth Street or Cathedral Parkway to Broadway, along Broadway to West One Hundred and Thirteenth Street, along West One Hundred and Thirteenth Street to Manhattan Avenue, along Manhattan Avenue and Saint Nicholas Avenue to West One Hundred and Thirty-fifth Street, along West One Hundred and Thirty-fifth Street to Amsterdam Avenue, along Amsterdam Avenue to West One Hundred and Thirty-sixth Street, along West One Hundred and Thirty-sixth Street to Broadway, along Broadway to West One Hundred and Forty-first Street, along West One Hundred and Forty-first Street to the Hudson River; thence along the Hudson River to the foot of West One Hundred and Tenth Street or Cathedral Parkway, the place of beginning.

54,914 inhabitants, excluding aliens.

Twentieth District. The twentieth assembly district shall consist of that portion of the eighteenth senate district within and bounded by a line beginning at the junction of the Harlem River and East One Hundred and Twenty-third Street and running thence along East One Hundred and Twenty-third Street to Pleasant Avenue, along Pleasant Avenue to East One Hundred and Twenty-second Street, along East One Hundred and Twenty-second Street to Second Avenue, along Second Avenue to East One Hundred and Twenty-first Street, along East One Hundred and Twenty-first Street to Park Avenue, along Park Avenue to East One Hundred and Nineteenth Street, along East One Hundred and Nineteenth Street to Fifth Avenue, along Fifth Avenue to East One Hundred and Twenty-fifth Street, along East One Hundred and Twenty-fifth Street to Madison Avenue, along Madison Avenue to East One Hundred and Twenty-seventh Street, along East One Hundred and Twenty-seventh Street to Fifth Avenue, along Fifth Avenue to West One Hundred and Thirty-fifth Street, along West One Hundred and Thirty-fifth Street to Lenox Avenue, along Lenox Avenue to West One Hundred and Thirty-sixth Street, along West One Hundred and Thirty-sixth Street to Seventh Avenue, along Seventh Avenue to West One Hundred and Forty-first Street, along West One Hundred and Forty-first Street to Edgecomb Avenue, along Edgecomb Avenue and Bradhurst Avenue to West One Hundred and Fifty-fifth Street, along West One Hundred and Fifty-fifth Street to the Speedway, along the Speedway to the Harlem River at a point opposite to One Hundred and Sixty-fifth Street; thence along the Harlem River to East One Hundred and Twenty-third Street, the place of beginning.

81,521 inhabitants, excluding aliens.

Twenty-first district. The twenty-first assembly district shall consist of that portion of the twentieth senate district within and bounded by a line beginning at the junction of the Hudson River and West One Hundred and Forty-first Street; along West One Hundred and Forty-first Street to Broadway; along Broadway to West One Hundred and Thirty-sixth Street; along West One Hundred and Thirty-sixth Street to Amsterdam Avenue; along Amsterdam Avenue to West One Hundred and Thirty-fifth Street; along West One Hundred and Thirty-fifth Street to Saint Nicholas Avenue; along Saint Nicholas Avenue to West One Hundred and Forty-first Street; along West One Hundred and Forty-first Street to Edgecomb Avenue; along Edgecomb Avenue and Bradhurst Avenue to West One Hundred and Fifty-fifth Street; along West One Hundred and Fifty-fifth Street to the Speedway; along the Speedway to West One Hundred and Sixty-third Street; along West One Hundred and Sixty-third Street to Amsterdam Avenue; along Amsterdam Avenue to West One Hundred and Sixty-second Street; along West One Hundred and Sixty-second Street to Fort Washington Avenue; along Fort Washington Avenue to West One Hundred and Sixty-first Street; along West One Hundred and Sixty-first Street to the Hudson River; thence along the Hudson River to the foot of West One Hundred and Forty-first Street, the point or place of beginning.

54,669 inhabitants, excluding aliens.

Twenty-second district. The twenty-second assembly district shall consist of that portion of the nineteenth senate district within and bounded by a line beginning at the corner of One Hundred and Twentieth Street and Manhattan Avenue; along West One Hundred and Twentieth Street to Lenox Avenue; along Lenox Avenue to West One Hundred and Twenty-seventh Street; along West One Hundred and Twenty-seventh Street to Fifth Avenue; along Fifth Avenue to West One Hundred and Thirty-fifth Street; along West One Hundred and Thirty-fifth Street to Lenox Avenue; along Lenox Avenue to West One Hundred and Thirty-sixth Street; along West One Hundred and Thirty-sixth Street to Seventh Avenue; along Seventh Avenue to West One Hundred and Forty-first Street; along West One Hundred and Forty-first Street to Saint Nicholas Avenue; thence along Saint Nicholas Avenue and Manhattan Avenue to West One Hundred and Twentieth Street, the place of beginning.

54,764 inhabitants, excluding aliens.

Twenty-third district. The twenty-third assembly district shall consist of that portion of the twentieth senate district within and bounded by a line beginning at the junction of Hudson River and West One Hundred and Sixty-first Street; thence along West One Hundred and Sixty-first Street to Fort Washington Avenue, along Fort Washington Avenue to One Hundred and Sixty-second Street; along West One Hundred and Sixty-second Street to Amsterdam Avenue, along Amsterdam Avenue to West One Hundred and Sixty-third Street, along West One Hundred and Sixty-third Street to the Speedway, along the Speedway to the Harlem River; thence along the Harlem River and Spuyten Duyvil Creek, around the northern end of Manhattan Island and along the Hudson River to the foot of West One Hundred and Sixty-first Street, the place of beginning.

54,180 inhabitants, excluding aliens.

Bronx County.

The first assembly district shall consist of that part of the County of Bronx within and bounded by a line beginning at the junction of Saint Ann's Avenue and the Bronx Kills and running thence along Saint Ann's Avenue to East One Hundred and Forty-ninth Street to Courtlandt Avenue, to East One Hundred and Forty-eighth Street, to Morris Avenue, to East One Hundred and Forty-sixth Street, to Park Avenue, to East One Hundred and Forty-ninth Street, to River Avenue, to East One Hundred and Fiftieth Street, to the Harlem River; thence southerly through the waters of the Harlem River and the Bronx Kills to the place of beginning.

Population, 54,775.

The second assembly district shall consist of that part of the County of Bronx within and bounded by a line, beginning at the junction of Saint Ann's Avenue and East One Hundred and Forty-ninth Street and running thence along Saint Ann's Avenue to East One Hundred and Fifty-sixth Street, to Eagle Avenue, to East One Hundred and Sixty-first Street, to Third Avenue, to East One Hundred and Sixty-fourth Street, to Brook Avenue, to East One Hundred and Sixty-fifth Street, to Findlay Avenue, to East One Hundred and Sixty-sixth Street, to Grant Avenue, to

East One Hundred and Sixty-ninth street, to Walton avenue, to East One Hundred and Seventieth street, to West One Hundred and Seventieth street, to Boscobel avenue, to University avenue, to the roadway of Washington bridge; thence to a point over the Harlem river, to the Harlem river; thence southerly through the waters of the Harlem river to its intersection with East One Hundred and Fiftieth street, to River avenue, to East One Hundred and Forty-ninth street, to Park avenue, to East One Hundred and Forty-sixth street, to Morris avenue, to East One Hundred and Forty-eighth street, to Courtlandt avenue, to East One Hundred and Forty-ninth street, to the place of beginning.

Population, 54,796.

The third assembly district shall consist of that part of the County of Bronx within and bounded by a line beginning at the junction of Third avenue and East One Hundred and Sixty-fourth street, and running thence along East One Hundred and Sixty-fourth street to Brook avenue, to East One Hundred and Sixty-fifth street, to Findlay avenue, to East One Hundred and Sixty-sixth street, to Grant avenue, to East One Hundred and Sixty-ninth street, to Walton avenue, to East One Hundred and Seventieth street, to West One Hundred and Seventieth street, to Boscobel avenue, to University avenue, to the roadway of Washington bridge; thence along said roadway to a point over the Harlem river, to the Harlem river; thence northerly through the waters of the Harlem river to West One Hundred and Seventy-seventh street, to West Tremont avenue, to West One Hundred and Seventy-seventh street, to East One Hundred and Seventy-seventh street, to Monroe avenue, to East One Hundred and Seventy-fifth street, to Clay avenue, to East One Hundred and Seventy-sixth street, to Anthony avenue, to East One Hundred and Seventy-fifth street, to Fulton avenue, to East One Hundred and Sixty-eighth street, to Franklin avenue, to Third avenue, to the place of beginning.

Population, 54,791.

The fourth assembly district shall consist of that part of the County of Bronx within and bounded by a line, beginning at the junction of the Bronx Kills and Saint Ann's Avenue, running thence northerly along Saint Ann's Avenue to East One Hundred and Fifty-sixth Street, to Eagle Avenue, to East One Hundred and Sixty-first Street, to Jackson Avenue, to East One Hundred and Fifty-eighth Street, to Westchester Avenue, to the Bronx River, thence southerly and westerly through the waters of the Bronx and East Rivers (South of Rikers Island) and the Bronx Kills, to the place of beginning.

Population, 82,182.

The fifth assembly district shall consist of that part of the County of Bronx within and bounded by a line beginning at the junction of Third Avenue and East One Hundred and Sixty-first Street, and running thence along Third Avenue to Franklin Avenue, to East One Hundred and Sixty-eighth Street, to Fulton Avenue, to East One Hundred and Seventy-fifth Street, to Arthur Avenue, to Crotona Park North, to Prospect Avenue, to East One Hundred and Seventy-fifth Street, to Southern Boulevard, to East One Hundred and Seventy-third Street, to Vyse Avenue, to East One Hundred and Seventy-second Street, to the Bronx River, thence southerly through the waters of the Bronx River to Westchester Avenue, to East One Hundred and Fifty-eighth Street, to Jackson Avenue, to East One Hundred and Sixty-first Street, thence along East One Hundred and Sixty-first Street to the place of beginning.

Population, 82,166.

The sixth assembly district shall consist of that part of the County of Bronx within and bounded by a line beginning at the junction of the Harlem River and West One Hundred and Seventy-seventh Street, and running thence along West One Hundred and Seventy-seventh Street to West Tremont Avenue, to West One Hundred and Seventy-seventh Street, to East One Hundred and Seventy-seventh Street, to Monroe Avenue, to East One Hundred and Seventy-fifth Street, to Clay Avenue, to East One Hundred and Seventy-sixth Street, to Anthony Avenue, to East One Hundred and Seventy-fifth Street, to Park Avenue, to East One Hundred and Eighty-fourth Street, to Hoffman Street, to East One Hundred and Eighty-seventh Street, to Hughes Avenue, to East One Hundred and Eighty-ninth Street, to Belmont Avenue, to East Fordham Road, to Bronx River, thence northerly through the waters of the Bronx River to East Two Hundred and Thirty-third Street, to Mount Vernon Avenue, to the northerly boundary line of Bronx County, thence westerly along said boundary line to the Hudson River, thence southerly through the waters of the Hudson and Harlem Rivers, along the boundary line of Bronx County, to the place of beginning.

Population, 54,815.

The seventh assembly district shall consist of that part of the County of Bronx within and bounded by a line beginning at the junction of Park Avenue and East One Hundred and Seventy-fifth Street, and running thence along Park Avenue to East One Hundred and Eighty-fourth Street, to Hoffman Street, to East One Hundred and Eighty-seventh Street, to Hughes Avenue, to East One Hundred and Eighty-ninth Street, to Belmont Avenue, to East Fordham Road, to Bronx River, thence southerly through the waters of the Bronx River to East Tremont Avenue, to Boston Road, to Longfellow Avenue, to East One Hundred and Seventy-sixth Street, to Bryant Avenue, to East One Hundred and Seventy-third Street, to Southern Boulevard, to East One Hundred and Seventy-fifth Street, to Prospect Avenue, to Crotona Park North, to Arthur Avenue, to East One Hundred and Seventy-fifth Street, thence along East One Hundred and Seventy-fifth Street to the place of beginning.

Population, 54,789.

The eighth assembly district shall consist of that part of the county of Bronx within and bounded by a line beginning at the junction of East One Hundred and Seventy-second Street and Vyse Avenue, and running thence along Vyse Avenue to East One Hundred and Seventy-third Street, to Bryant Avenue, to East One Hundred and Seventy-sixth Street to Longfellow Avenue, to Boston Road, to East Tremont Avenue, to the Bronx River, thence northerly through the waters of the Bronx River to East Two Hundred and Thirty-third Street, to Mount Vernon Avenue, to the northerly boundary line of Bronx County, thence easterly along said boundary line to the waters of Long Island Sound, thence southerly through the waters of Long Island Sound, along the boundary line of Bronx County, to the East River, thence westerly through the waters of the East River to the Bronx River, thence northerly through the waters of the Bronx River to East One Hundred and Seventy-second Street, thence along East One Hundred and Seventy-second Street to the place of beginning.

Population, 54,820.

Kings County.

The 1st Assembly District shall consist of that portion of the Eighth Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of Buttermilk Channel, East River and Congress Street, along Congress Street, to Columbia Street, to Warren Street, to Hicks Street, to Baltic Street, to Clinton Street, to Amity Street, to Court Street, to Bergen Street, to Bond Street, to Dean Street, to Nevins Street, to Pacific Street, to Bond Street, to Fulton Street, to Gold Street, to Willoughby Street, to St. Edwards Street, to Bolivar Street, to Raymond Street, to Park Avenue, to Navy Street, to Navy Yard, along to the East River; thence through the waters of the East River and Buttermilk Channel to the place of beginning.

The population of this district is 60,392.

The 2nd Assembly District shall consist of that portion of the Sixth Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of East 13th Street and the waters of the Atlantic Ocean, thence easterly through the waters of the Atlantic Ocean and Jamaica Bay, south of Barren Island, to the boundary line of Kings and Queens Counties, thence along said boundary line, to a point opposite the easterly end of Duck Point Marsh, thence northerly to Fresh Creek, thence through the waters of Fresh Creek to the intersection of Junius Street, thence along Junius Street, to New Lots Avenue, to Powell Street, to Livonia Avenue, to Sackman Street, to Blake Avenue, to Christopher Avenue, to Belmont Avenue, to Rockaway Avenue, to Sutter Avenue, to Saratoga Avenue, to Pitkin Avenue, to Eastern Parkway, to Buffalo Avenue, to Carroll Street, to Utica Avenue, to Church Avenue, to East 49th Street, to Snyder Avenue, to Schenectady Avenue, to Avenue J, to East 34th Street, to Flatbush Avenue, to Avenue I, to East 17th Street, to Foster Avenue, to Ocean Parkway, to Avenue O, to East 8th Street, to Avenue T, to Ocean Parkway, to Avenue U, to Coney Island Avenue, to Canal Avenue South, to East 13th Street, through East 13th Street, to the waters of the Atlantic Ocean to the place of beginning.

The population of this district is 60,042.

The 3rd Assembly District shall consist of that portion of the Seventh Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of Court Street and Amity Street, to Clinton Street, to Baltic Street, to Hicks Street, to Warren Street, to Columbia Street, to Congress Street, to East River, to New York Bay, along the water front of 62nd Street, along 62nd Street, to Third Avenue, to 56th Street, to 4th Avenue, along Fourth Avenue, to 24th Street, to 3rd Avenue, to Hamilton Avenue, to Rapelye Street, to Hicks Street, to Summitt Street, along Summitt Street and First Place, to Court Street, to Amity Street, to the place of beginning.

The population of this district is 60,001.

The 4th Assembly District shall consist of that portion of the Eighth Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of the East River and South Second Street, to Berry Street, to South 1st Street, to Bedford Avenue, to South 5th Street, to Havemeyer Street, to South 3rd Street, to Marcy Avenue, to South 2nd Street, to Rodney Street, to Broadway, to Hooper Street, to Harrison Avenue, to Lorimer Street, to Marcy Avenue, to Middleton Street, to Wallabout Street, to Bedford Avenue, to Flushing Avenue, to Spencer Street, to Myrtle Avenue, to Washington Park, to DeKalb Avenue, to Navy Street, to Lafayette Street, to Raymond Street, to Willoughby Street, to St. Edwards Street, to Bolivar Street, to Raymond Street, to Park Avenue, to Navy Street, to the Navy Yard, along the Navy Yard to the East River, thence to the waters of the East River to the place of beginning.

The population of this district is 59,715.

The 5th Assembly District shall consist of that portion of the Tenth Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of Tompkins Avenue and Fulton Street, along Fulton Street, to Sumpter Street, to Ralph Avenue, to Marion Street, to Rockaway Avenue, to Broadway, to Stuyvesant Avenue, to DeKalb Avenue, to Lewis Avenue, to McDonough Street, to Tompkins Avenue, to the place of beginning.

The population of this district is 60,039.

The 6th Assembly District shall consist of that portion of the Tenth Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of Myrtle Avenue and Spencer Street, thence along Spencer Street to Flushing Avenue, to Bedford Avenue, to Wallabout Street, to Middleton Street, to Marcy Avenue, to Lorimer Street, to Harrison Avenue, to Middleton Street, to Broadway, to Wallabout Street, to Throop Avenue, to Gerry Street, to Broadway, to Stuyvesant Avenue, to DeKalb Avenue, to Lewis Avenue, to Lafayette Avenue, to Bedford Avenue, to DeKalb Avenue, to Spencer Street, to the place of beginning.

The population of this district is 60,003.

The 7th Assembly District shall consist of that portion of the Seventh Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of Prospect and Third Avenues, along Prospect Avenue to 11th Avenue, to Terrace Place, to Gravesend Avenue, to Fort Hamilton Parkway, to 39th Street, to 12th Avenue, to 40th Street, to 13th Avenue, to 43rd Street, to 7th Avenue, to 44th Street, to 6th Avenue, to 61st Street, to 5th Avenue, to 62nd Street, to 4th Avenue, to 61st Street, to 3rd Avenue, to 56th Street, to 4th Avenue, to 24th Street, to 3rd Avenue, to Prospect Avenue, to the place of beginning.

The population of this district is 60,369.

The 8th Assembly District shall consist of that portion of the Seventh Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of Court and Bergen Streets, to First Place, along First Place and Summitt Street to Hicks Street, to Rapelye Street, to Hamilton Avenue, to 3rd Avenue, to Prospect Avenue, to Fourth Avenue, to Carroll Street, to Fifth Avenue, to Berkeley Place, to Sixth Avenue, to Lincoln Place, to Fifth Avenue, to St. Marks Place, to Fourth Avenue, to Bergen Street, to Court Street, to the place of beginning.

The population of this district is 59,801.

The Ninth Assembly District shall consist of that portion of the Sixth Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of 62nd Street and the waters of New York Bay, thence along 62nd Street, to Third Avenue, to 61st Street, to Fourth Avenue, to 62nd Street, to Fifth Avenue, to 61st Street, to Sixth Avenue, to 44th Street, to Seventh Avenue, to 43rd Street, to 13th Avenue, to 58th Street, to 14th Avenue, to New Utrecht Avenue, to 15th Avenue, to 73rd Street, to 14th Avenue, to 74th Street, to 13th Avenue, to 78th Street, to 14th Avenue, to 79th Street, to 15th Avenue, to Benson Avenue, to Bay 7th Street, to Cropsey Avenue, to Bay 8th Street, to Sharp Avenue, to 15th Avenue, to Gravesend Bay and thence through the waters of Gravesend Bay, the Narrows and New York Bay to the place of beginning.

The population of this district is 60,049.

The 10th Assembly District shall consist of that portion of the Ninth Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of the southwesterly corner of Union Street and Prospect Park West, to President Street, to Eighth Avenue, to Carroll Street, to Fiske Place, to Garfield Place, to Seventh Avenue, to Carroll Street, to Sixth Avenue, to Garfield Place, to Fifth Avenue, to First Street, to Sixth Avenue, to Eighth Street, to Fifth Avenue, to Tenth Street, to Fourth Avenue, to Carroll Street, to Fifth Avenue, to Berkeley Place, to Sixth Avenue, to Lincoln Place, to Fifth Avenue, to St. Marks Place, to Fourth Avenue, to Bergen Street, to Bond Street, to Dean Street, to Nevins Street, to Pacific Street, to Bond Street, to Fulton Street, to Gold Street, to Willoughby Street, to Raymond Street, to Lafayette Street, to Rockwell Place, to DeKalb Avenue, to South Oxford Street, to Greene Avenue, to Vanderbilt Avenue, to Gates Avenue, to Waverly Avenue, to Atlantic Avenue, to Classon Avenue, to St. Marks Avenue, to Grand Avenue, to Washington Avenue, to Sterling Place, to Underhill Avenue, to Eastern Parkway, to Plaza, to Prospect Park West and Union Street, the point or place of beginning.

The population of this district is 60,053.

The 11th Assembly District shall consist of that portion of the Ninth Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of the northwest corner of Spencer Street and Myrtle Avenue, to DeKalb Avenue, to Bedford Avenue, to Dean Street, to Nostrand Avenue, to Montgomery Street, to Franklin Avenue, to Malbone Street, to Washington Avenue, to Lefferts Street, to Flatbush Avenue, to Plaza, to Underhill Avenue, to Sterling Place, to Washington Avenue, to Grand Avenue, to St. Marks Avenue, to Classon Avenue, to Atlantic Avenue, to Waverly Avenue, to Gates Avenue, to Vanderbilt Avenue, to Greene Avenue, to South Oxford Street, to DeKalb Avenue, to Washington Park, to Myrtle Avenue, to Spencer Street, to the point or place of beginning.

The population of this district is 60,053.

The 12th Assembly District shall consist of that portion of the Ninth Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of a point on the southeasterly corner of Union Street and Prospect Park West, to President Street, to Eighth Avenue, to Carroll Street, to Fiske Place, to Garfield Place, to Seventh Avenue, to Carroll Street, to Sixth Avenue, to Garfield Place, to Fifth Avenue, to First Street, to Sixth Avenue, to Eighth Street, to Fifth Avenue, to Tenth Street, to Fourth Avenue, to Prospect Avenue, to Eleventh Avenue, to Terrace Place, to Gravesend Avenue, to Fort Hamilton Avenue or Parkway, to Thirty-ninth Street, to Twelfth Avenue, to Fortieth Street, to Thirtieth Avenue, to Forty-third Street, to Fifteenth Avenue, to Forty-second Street, to Sixteenth Avenue, to Forty-third Street, to West Street, to Cortelyou Road, to Ocean Parkway, to Avenue C, to East Eighth Street, to Beverly Road, to Coney Island Avenue, to Caton Avenue, to Parade Place, to Parkside Avenue, to Ocean Avenue, to Flatbush Avenue, to Plaza, to Prospect Park West, to Union Street, to the place of beginning.

The population of this district is 60,045.

The 13th Assembly District shall consist of that portion of the Sixth Senate District of the County of Kings within and bounded by a line beginning at the intersection of 43d Street and 13th Avenue, through 43d Street, to 15th Avenue, to 47th Street, to Lawrence Avenue, to Gravesend Avenue, to Foster Avenue, to East 3d Street, to Flimwood Avenue, to East 4th Street, to Foster Avenue, to Ocean Parkway, to Avenue O, to East 8th Street, to Avenue T, to Ocean Parkway, to Avenue U, to Coney Island Avenue, to Canal Avenue South, to East 13th Street, to the waters of the Atlantic Ocean, and thence through the waters of the Atlantic Ocean and Gravesend Bay, to 15th Avenue, to Shapp Avenue, to Bay 8th Street, to Cropsey Avenue, to Bay 7th Street, to Benson Avenue, to 15th Avenue, to 79th Street, to 14th Avenue, to 78th Street, to 13th Avenue, to 74th Street, to 14th Avenue, to 73rd Street, to 15th Avenue, to New Utrecht Avenue, to 14th Avenue, to 58th Street, to 13th Avenue, to 43d Street, to the place of beginning.

The population of this district is 60,056.

The 14th Assembly District shall consist of that portion of the Eighth Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of Bushwick Creek and North 13th Street, to Berry Street, to North 12th Street, to Union Avenue, to Frost Street, to Lorimer Street, to Ten Eyck Street, to Manhattan Avenue, to Varet Street, to Garry Street, to Throop Avenue, to Wallabout Street, to Broadway, to Middleton Street, to Harrison Avenue, to Hooper Street, to Broadway, to Rodney Street, to South Second Street, to Marcy Avenue, to South Third Street, to Havemeyer Street, to South Fifth Street, to Bedford Avenue, to South First Street, to Berry Street, to South Second Street, to East River, thence through the waters of East River and Bushwick Creek to the place of beginning.

The population of this district is 60,069.

The 15th Assembly District shall consist of that portion of the Fourth Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of the Bushwick Creek and the East River, running thence through the waters of the East River to intersection of the Newtown Creek and the East River; thence through the waters of the Newtown Creek to the boundary lines between Kings and Queens Counties; thence along the said boundary line to Metropolitan Avenue, to Grand Street, to Waterbury Street, to Maujer Street, to Leverage Street, to Grand Street, to Graham Avenue, to Boerum Street, to Manhattan Avenue, to Ten Eyck Street, to Lorimer Street, to Frost Street, to Union Avenue, to North 12th Street, to Berry Street, to North 13th Street, to the place of beginning.

The population of this district is 90,028.

The 16th Assembly District shall consist of that portion of the Eleventh Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of Ocean Avenue and Lincoln Road, thence along Lincoln Road, to Nostrand Avenue, to Lenox Road, to Bedford Avenue, to Snyder Avenue, to Rogers Avenue, to Church Avenue, to East 32nd Street, to Snyder Avenue, to East 36th Street, (Canarsie Road), to Canarsie Lane, to Schenectady Avenue, to Avenue J, to East 34th Street, to Flatbush Avenue, to Avenue I, to East 17th Street to Foster Avenue, to East 4th Street, to Elmwood Avenue, to East 3rd Street, to Foster Avenue, to Gravesend Avenue, to Lawrence Avenue, to 47th Street, to 15th Avenue, to 42nd Street, to 16th Avenue, to 43rd Street, to West Street, to Cortelyou Road, to Ocean Parkway, to Avenue C, (or Avenue C West), to East 8th Street, to Beverly Road, to Coney Island Avenue, to Caton Avenue, to Parade Place, to Parkside Avenue, to Ocean Avenue, to the place of beginning.

The population of this district is 60,027.

The 17th Assembly District shall consist of that portion of the Eleventh Senate District, of the County of Kings, within and bounded by a line beginning at the intersection of Lafayette Avenue and Bedford Avenue, running thence to Lewis Avenue, to McDonough Street, to Tompkins Avenue, to Fulton Street, to Sumpter Street, to Patchen Avenue, to Fulton Street, to Rochester Avenue, to Atlantic Avenue, to Buffalo Avenue, to St. Marks Avenue, to Rochester Avenue, to Bergen Street, to Troy Avenue, to Atlantic Avenue, to Brooklyn Avenue, to St. Marks Avenue, to Kingston Avenue, to Sterling Place, to Albany Avenue, to Lincoln Place, to Kingston Avenue, to Eastern Parkway, to Troy Avenue, to Crown Street, to Brooklyn Avenue, to President Street, to New York Avenue, to St. John's Place, to Brooklyn Avenue, to Park Place, to Nostrand Avenue, to Dean Street, to Bedford Avenue, to Lafayette Avenue, to the place of beginning.

The population of this district is 60,079.

The 18th Assembly District shall consist of that portion of the Eleventh Senate District of the County of Kings, within and bounded by a line beginning at the intersection of Nostrand Avenue and Park Place, to Brooklyn Avenue to St. Johns Place, to New York Avenue, to President Street, to Brooklyn Avenue, to Crown Street, to Troy Avenue, to Eastern Parkway, to Kingston Avenue, to Lincoln Place, to Albany Avenue, to Sterling Place, to Kingston Avenue, to St. Marks Avenue, to Brooklyn Avenue, to Atlantic Avenue, to Troy Avenue, to Bergen Street, to Rochester Avenue, to St. Marks Avenue, to Buffalo Avenue, to Atlantic Avenue, to Saratoga Avenue, to Bergen Street, to Hopkinson Avenue, to St. Marks Avenue, to Saratoga Avenue, to Eastern Parkway, to Buffalo Avenue, to Carroll Street, to Utica Avenue, to Church Avenue, to East 49th Street, to Snyder Avenue, to Schenectady Avenue, to Canarsie Lane, to Canarsie Avenue (or East 36th Street), to Snyder Avenue, to East 32d Street, to Church Avenue, to Rogers Avenue, to Snyder Avenue, to Bedford Avenue, to Lenox Road, to Nostrand Avenue, to Lincoln Road, to Ocean Avenue, to Flatbush Avenue, to Lefferts Avenue, to Washington Avenue, to Malbone Street, to Franklin Avenue, to Montgomery Street, to Nostrand Avenue, to the place of beginning.

The population of this district is 60,041.

The 19th Assembly District shall consist of that portion of the Fourth Senate District of the County of Kings, within and bounded by a line beginning at the intersection of the boundary lines of the Counties of Kings and Queens, the Bushwick Creek and Metropolitan Avenue; thence along Metropolitan Avenue to Grand Street, to Waterbury Street, to Maujer Street, to Leverage Street, to Grand Street, to Graham Avenue, to Boerum Street, to Manhattan Avenue, to Varet Street, to Broadway, to Kosciusko Street, to Bushwick Avenue, to Stockholm Street, to Hamburg Avenue, to Greene Avenue, to Knickerbocker Avenue, to Bleeker Street, to the boundary line between Kings County and Queens County to the point of beginning.

The population of this district is 90,109.

The 20th Assembly District shall consist of that portion of the Fifth Senate District of the County of Kings, within and bounded by a line beginning at the intersection of the boundary lines of Kings and Queens Counties and Bleeker Street, and running thence along Bleeker Street, to Knickerbocker Avenue, to Greene Avenue, to Hamburg Avenue, to Stockholm Street, to Bushwick Avenue, to Kosciusko Street, to Broadway, to Chauncey Street, to Bushwick Avenue, to Moffatt Street, to Hamburg Avenue, to Putnam Avenue, to Knickerbocker Avenue, to Woodbine Street, to Irving Avenue, to Gates Avenue, to Myrtle Avenue, to the boundary line between Kings and Queens Counties, to the place of beginning.

The population of this district is 60,041.

The 21st Assembly District shall consist of that portion of the Fifth Senate District of the County of Kings, within and bounded by a line beginning at the intersection of the boundary line of Kings and Queens Counties, and the westerly line of Highland Park, thence along said boundary line of Highland Park, to Jamaica Avenue, to Essex Street, to Fulton Street, to Dresden Street, to Ridgewood Avenue, to Hale Avenue, to Fulton Street, to Richmond Street, to Dinsmore Place, to Chestnut Street, to Atlantic Avenue, to Fountain Avenue, to Sutter Avenue, to Logan Street, to Blake Avenue, to Elton Street, to Glenmore Avenue, to Wyona Street, to Belmont Avenue, to Vermont Street, to Sutter Avenue, to Pennsylvania Avenue, to Dumont Avenue, to Van Sinderen Avenue, to Blake Avenue, to Sackman Street, to Livonia Avenue, to Powell Street, to New Lots Avenue, to Junius Street, to Fresh Creek, to the waters of Jamaica Bay, to the boundary line between Queens and Kings Counties, thence along said boundary line to the place of beginning.

The population of this district is 60,059.

The 22d Assembly District shall consist of that portion of the Fifth Senate District of the County of Kings, within and bounded by a line beginning at the intersection of the boundary line between Kings and Queens Counties and Myrtle Avenue; thence along Myrtle Avenue to Gates Avenue, to Irving Avenue, to Woodbine Street, to Knickerbocker Avenue, to Putnam Avenue, to Hamburg Avenue, to Moffatt Street, to Bushwick Avenue, to Chauncey Street, to Broadway, to Jamaica Avenue, to Sheffield Avenue, to Fulton Street, to Pennsylvania Avenue, to Belmont Avenue, to Christopher Avenue, to Blake Avenue, to Van Sinderen Avenue, to Demont Avenue, to Pennsylvania Avenue, to Sutter Avenue, to Vermont Street, to Belmont Avenue, to Wyona Street, to Glenmore Avenue, to Elton Street, to Blake Avenue, to Logan Street, to Sutter Avenue, to Fountain Avenue, to Atlantic Avenue, to Chestnut Street, to Dinsmore Place, to Richmond Street, to Fulton Street, to Hale Avenue, to Ridgewood Avenue, to Dresden Street, to Fulton Street, to Essex Street, to Jamaica Avenue, to the intersection of the westerly boundary line of Highland Park; thence along said boundary line to the line between Kings and Queens Counties; thence along said boundary line to the place of beginning.

The population of this district is 60,070.

The 23rd Assembly District shall consist of that portion of the Tenth Senate District of the County of Kings, within and bounded by a line beginning at the intersection of Broadway and Jamaica Avenue, to Sheffield Street, to Fulton Street, to Pennsylvania Avenue, to Belmont Avenue, to Rockaway Avenue, to Sutter Avenue, to Saratoga Avenue, to Pitkin Avenue, to Eastern Parkway, to Saratoga Avenue, to St. Marks Avenue, to Hopkinson Avenue, to Bergen Street, to Saratoga Avenue, to Atlantic Avenue, to Rochester Avenue, to Fulton Street, to Patchen Avenue, to Sumpter Street, to Ralph Avenue, to Marion Street, to Rockaway Avenue, to Broadway, to the place of beginning.

The population of this district is 60,129.

Division of Queens County Into Senatorial Districts 2 and 3; and Assembly Districts 1, 2, 3, 4, 5 and 6.

Third Senatorial District—First Assembly District.

The First Assembly District is bounded by and within a line beginning at a point on the boundary line between the counties of Kings and Queens in Newtown Creek, where same intersects the bulkhead line of the East River, prolonged; thence along said boundary line between Brooklyn and Queens to the center line of Dutchkills Creek; thence along the center line of Dutchkills Creek to the prolongation thereof until intersected by the prolongation of Rapalje Avenue, or Fourth Avenue; thence along said prolongation of Rapalje Avenue, or Fourth Avenue, to Jackson Avenue; thence along Jackson Avenue to Old Bowery Bay Road; thence along Old Bowery Bay Road to Astoria Ave., or Flushing Avenue; thence along Astoria Avenue, or Flushing Avenue, to Woolsey Avenue; thence along Woolsey Ave. to Steinway Ave., or 10th Ave.; thence along Steinway Ave., or 10th Ave., to Potter Ave.; thence along Potter Ave. to Kouwenhoven St., or 9th Ave.; thence along Kouwenhoven St., or 9th Ave., to Bowery Bay and East River; thence to a point of beginning, including Berriens Island.

Population, 58,565.

Third Senatorial District—Second Assembly District.

The Second Assembly District is bounded by and within a line beginning at a point on the line dividing Brooklyn and Queens Counties in Newtown Creek where same is intersected by the center line of Dutchkills Creek, prolonged; thence along said boundary line to Woodbine Street; thence along Woodbine Street to Woodward Avenue; thence along Woodward Avenue to Palmetto Street; thence along Palmetto Street to Grand View Avenue; thence along Grand View Avenue to Linden Street; thence along Linden Street to Forest Avenue; thence along Forest Avenue to Gates Avenue; thence along Gates Avenue to Fresh Pond Road; thence along Fresh Pond Road to Hancock Street, or Hughes St., or Woodbine Street; thence along Hancock St., or Hughes Street, or Woodbine St., to Long Island Railroad; thence along Long Island Railroad to new Woodhaven Avenue; thence along new Woodhaven Avenue to Yellowstone Avenue, or new Woodhaven Avenue; thence along Yellowstone Avenue, or new Woodhaven Ave., to the intersection of Lawn Avenue with Mill Creek; thence westerly along Mill Creek to a point opposite intersection of Junction and Newtown Avenues; thence from intersection of Junction and Newtown Aves. to Justice St.; thence along Justice St. to Laconia, or Broad St.; thence along Laconia, or Broad St., to Queens Boulevard; thence along Queens Boulevard to Grand St.; thence along Grand St. to Calamus Road; thence along Calamus Road to Fiske Avenue; thence along Fiske Ave. to Woodside Ave.; thence along Woodside Ave. to Skillman Ave.; thence along Skillman Ave. to Greenpoint Ave.; thence along Greenpoint Ave. to Celtic Ave.; thence along Celtic Ave. to Dickinson Ave.; thence along Dickinson Ave. to Middleburg Ave.; thence along Middleburg Ave. to Woodside Ave.; thence along Woodside Ave. to Jackson Ave.; thence along Jackson Ave. to 4th Ave., or Rapalje Ave.; thence along prolongation of 4th, or Rapalje Ave. to intersection of center line of Dutchkills Creek, to the boundary line between Brooklyn and Queens, the point or place of beginning.

Population, 58,309.

Third Senatorial District—Third Assembly District.

The Third Assembly District is bounded by and within a line beginning at the intersection of Jackson Ave. and Woodside Ave.; thence along Woodside Ave. to Middleburg Avenue; thence along Middleburg Ave. to Dickinson Avenue; thence along Dickinson Ave. to Celtic Avenue; thence along Celtic Avenue to Greenpoint Avenue; thence along Greenpoint Avenue to Skillman Avenue; thence along Skillman Avenue to Woodside Avenue; thence along Woodside Avenue to Fiske Avenue; thence along Fiske Avenue to Calamus Road; thence along Calamus Road to Grand Street; thence along Grand Street to Queens Boulevard; thence along Queens Boulevard to Laconia, or Broad St.; thence along Laconia, or Broad Street, to Justice St., or Newtown Road; thence along Justice St., or Newtown Road, to intersection of Junction Avenue; thence along prolongation to a point on Mill Creek opposite intersection of Junction and Justice Street, or Newtown Road; thence following Mill Creek to the intersection of Yellowstone Ave. and Lawn Avenue at Mill Creek; thence following Mill Creek to Flushing Creek; thence along Flushing Creek to Strongs Causeway; thence along Strongs Causeway to Ireland Mill Road; thence along Ireland Mill Road to Lawrence Street; thence along Lawrence Street to Bradford Avenue; thence along Bradford Avenue to Main Street; thence along Main Street to Lincoln Avenue; thence along Lincoln Avenue to Union Avenue; thence along Union Avenue to Whitestone Avenue, thence along Whitestone Avenue to Bayside Avenue; thence along Bayside Avenue to Little Bayside Road, or Saxe Street, to Poppenhausen Avenue; thence along Poppenhausen Avenue to Bell Avenue; thence along Bell Avenue northerly for 300 feet to Mulford Avenue; thence westerly along Mulford Ave. to Little Neck Bay; thence following the boundary line between Queens County and the Bronx and Queens County and Manhattan to the intersection of Kouwenhoven, or 9th Avenue; thence along Kouwenhoven, or 9th Avenue, to Potter Avenue; thence along Potter Ave. to Steinway, or 10th Avenue; thence along Steinway, or 10th Ave., to Woolsey Avenue; thence along Woolsey Ave. to Astoria Ave., or Flushing Ave.; thence along Astoria, or Flushing Ave., to Old Bowery Bay Road; thence along Old Bowery Bay Road to Jackson Ave., or Woodside Ave., to a point or place of beginning.

Population, 58,164.

Second Senatorial District—Fourth Assembly District.

The Fourth Assembly District is bounded by and within a line beginning in the waters of Little Neck Bay where same is intersected by Mulford Street, prolonged; thence to Bell Avenue to Poppenhausen Ave., or Little Bayside Road; thence from Poppenhausen Ave., or Little Bayside Road, to Saxe Street, or Little Bayside Road; thence from Saxe Street, or Little Bayside Road, to Bayside Avenue; thence from Bayside Avenue to Whitestone Avenue; thence from Whitestone Avenue to Union Avenue; thence from Union Avenue to Lincoln Avenue; thence from Lincoln Avenue to Main Street; thence from Main Street to Bradford Avenue; thence from Bradford Avenue to Lawrence Street; thence from Lawrence Street to Ireland Mill Road; thence from Ireland Mill Road to Flushing Creek and Strongs Causeway; thence from Flushing Creek and Strongs Causeway along Flushing Creek to the intersection of the line between the 2nd and 4th Wards; thence from intersection of said line between 2nd and 4th Wards to Newtown Road; thence from Newtown Road to Lefferts Avenue; thence from Lefferts Avenue to Atlantic Avenue; thence from Atlantic Ave. to South Cochran Ave., or Ward Avenue; thence from South Cochran Ave., or Ward Avenue, to Garden Street; thence from Garden St. to Van Wyck Ave.; thence from Van Wyck Ave. to Old Lincoln Ave.; thence from Old Lincoln Ave. to Rockaway Blvd., or Rockaway Road; thence from Rockaway Blvd., or Rockaway Road, to the line between Brooklyn and Nassau at Hook Creek; thence from the line between Brooklyn and Nassau at Hook Creek to the prolongation of Mulford Ave. and Little Neck Bay, to the point or place of beginning.

Population, 58,578.

Second Senatorial District—Fifth Assembly District.

The Fifth Assembly District is bounded by and within a line beginning at the intersection of the line between Brooklyn and Queens and Atlantic Avenue; running along Atlantic Avenue to Ferry Street; thence along Ferry Street to Jamaica Avenue; thence along Jamaica Avenue to Gherardi, or Woodland Avenue; thence along Woodland Avenue to Syosset, or Third Street; thence along Syosset, or Third St., to Thrall Street; thence along Thrall Street to Syosset, or Russell St.; thence along Syosset, or Russell St., to Woodhaven Avenue; thence along Woodhaven Avenue to Jamaica Avenue; thence along Jamaica Avenue to Waterbury St. and the prolongation thereof to Myrtle Avenue, along boundary line between the 2nd and 4th Wards; thence along said boundary line between the 2nd and 4th Wards to Newtown Road; thence along Newtown Road to Lefferts Avenue; thence along Lefferts Avenue to Atlantic Avenue; thence along Atlantic Avenue to South Cochran Avenue; thence along South Cochran Avenue to Garden Street; thence along Garden Street to Van Wyck Avenue; thence along Van Wyck Avenue to old Lincoln Avenue; thence along old Lincoln Avenue to Rockaway Road, or Rockaway Blvd.; thence along Rockaway Road, or Rockaway Blvd., to boundary line between Queens and Nassau at Hook Creek; thence along said boundary line between Queens and Nassau through Far Rockaway to the Atlantic Ocean; thence through the Atlantic Ocean and Jamaica Bay to the intersection of the boundary line between Brooklyn and Queens; thence along said boundary line between Brooklyn and Queens to Atlantic Avenue, the point or place of beginning.

Population, 58,571.

Second Senatorial District—Sixth Assembly District.

The Sixth Assembly District is bounded by and within a line beginning at a point at the intersection of the line between Brooklyn and Queens to Woodbine

Street; thence along Woodbine St. to Woodward Avenue; thence along Woodward Avenue to Palmetto Avenue; thence along Palmetto Ave. to Grand View Avenue; thence along Grand View Ave. to Linden Street; thence along Linden St. to Forest Avenue; thence along Forest Avenue to Gates Avenue; thence along Gates Avenue to Fresh Pond Road; thence along Fresh Pond Road to Hancock, Hughes or Woodbine St.; thence along Hancock, Hughes or Woodbine St. to L. I. R. R.; thence along L. I. R. R. to Woodhaven Avenue; thence along Woodhaven Ave. to Woodhaven, or Yellowstone Ave.; thence along Woodhaven, or Yellowstone Ave. to Mill Creek and Lawn Ave.; thence along Mill Creek to Flushing Creek; thence along Flushing Creek to the line between the 2nd and 4th Wards; thence along the line between the 2nd and 4th Wards to the prolongation of Waterbury Street; thence along said Waterbury Street to Jamaica Avenue; thence along Jamaica Avenue to Woodhaven Avenue; thence along Woodhaven Ave. to Syosset, or Russell St.; thence along Syosset, or Russell St., to Thrall St.; thence along Thrall St. to Syosset, or Third St.; thence along Syosset, or Third St., to Gherardi Ave., or Woodland Ave.; thence along Gherardi Ave., or Woodland Ave., to Jamaica Ave.; thence along Jamaica Ave. to Ferry St.; thence along Ferry St. to Atlantic Avenue; thence along Atlantic Avenue to a line between Brooklyn and Queens; thence along said line between Brooklyn and Queens to intersection of Woodbine St., to a point or place of beginning.

Population, 58,906.

Boundary Lines of New Senatorial Districts—Queens County.**Second Senate District.**

The Second Senate District shall consist of that part of the County of Queens, within and bounded by a line, beginning at Strongs Causeway on Flushing Creek and running thence along Flushing Creek to the junction of Iron Mill Road, thence along Iron Mill Road to Lawrence Street, to Bradford Avenue, to Main Street, to Lincoln Street, to Union Avenue, to Whitestone Avenue, to Bayside Avenue, to Little Bayside Road (described on map as Saxe Street, Poppenhausen Avenue), to Bell Avenue, thence northerly along Bell Avenue about three hundred feet (or as shown on map to Mulford Avenue), thence easterly to the waters of Little Neck Bay, thence through the waters of Little Neck Bay to the boundary line of Queens and Nassau Counties, thence along said boundary line to the Atlantic Ocean, thence easterly through the waters of the Atlantic Ocean to the boundary line of Kings and Queens Counties, thence northerly along said boundary line to Woodbine Street, to Woodward Avenue, to Palmetto Street, to Grand View Avenue, to Linden Street, to Forest Avenue, to Magnolia Street (or Gates Avenue), to Fresh Pond Road, to Woodbine Avenue (or Hughes Avenue), to Long Island Railroad, to Trotting Course Lane (or Woodhaven Avenue), to White Pot Road (or Yellowstone Avenue), to Astoria Road (or Yellowstone Avenue), to North Hempstead Plank Road (or Yellowstone Avenue), to Lawn Avenue, thence along Lawn Avenue, to the stream connecting Lawn Avenue and Flushing Creek, thence along said stream to Flushing Creek, thence along Flushing Creek to Strongs Causeway, the place of beginning.

Population, 176,055.

Third Senate District.

The Third Senate District shall consist of that part of the County of Queens within and bounded by a line, beginning at Strongs Causeway on Flushing Creek and running thence along Flushing Creek to the junction of Iron Mill Road, thence along Iron Mill Road to Lawrence Street, to Bradford Avenue, to Main Street, to Lincoln Street, to Union Avenue, to Whitestone Avenue, to Bayside Avenue, to Little Bayside Road (described on map as Saxe Street, Poppenhausen Avenue), to Bell Avenue, thence northerly along Bell Avenue about three hundred feet (or as shown on map to Mulford Avenue), thence easterly to the waters of Little Neck Bay, thence through the waters of Little Neck Bay, Long Island Sound, East River and Newtown Creek to the boundary line of Kings and Queens Counties, thence along said boundary line to Woodbine Street, to Woodward Avenue, to Palmetto Street, to Grand View Avenue, to Linden Street, to Forest Avenue, to Magnolia Street (or Gates Avenue), to Fresh Pond Road, to Woodbine Avenue (or Hughes Avenue), to Long Island Railroad, to Trotting Course Lane (or Woodhaven Avenue), to White Pot Road (or Yellowstone Avenue), to Astoria Road (or Yellowstone Avenue), to North Hempstead Plank Road (or Yellowstone Avenue), to Lawn Avenue, thence along Lawn Avenue to the stream connecting Lawn Avenue and Flushing Creek, thence along said stream to Flushing Creek, thence along Flushing Creek to Strongs Causeway, the place of beginning.

Population, 175,038.

Richmond County.**Description of Boundaries of Proposed First and Second Assembly Districts.**

The first assembly district is to consist of the territory bounded as follows:

Beginning at the Upper New York Bay at the foot of Vanderbilt Avenue; thence westerly along Vanderbilt Avenue to Richmond Road; thence southwesterly and westerly along Richmond Road to Rockland Avenue (formerly Egbert Avenue); thence northwesterly along Rockland Avenue (formerly Egbert Avenue and Saw Mill Road) to Bradley Avenue (formerly Manor Road); thence northeasterly along Bradley Avenue (formerly Manor Road and Bradley Avenue) to Willow Brook Road; thence northwesterly and northerly along Willow Brook Road (formerly Gun Factory Road and Willow Brook Road) to Watchogue Road; thence easterly along Watchogue Road to a brook known as Palmers Run, located west of Woolley Avenue; thence northerly along Palmers Run to Forest Avenue (formerly Cherry Lane); thence northeasterly along Palmers Run to the intersection of Post and Jewett avenues; thence northerly along Palmers Run and Bodines Creek to the Kill van Kull; thence easterly along the Kill van Kull to the Upper New York Bay; thence southerly along the shore of the Upper New York Bay to the point of beginning.

To comprise and be identical with the territory known as the First and Second Wards, Borough of Richmond, The City of New York.

The second assembly district to consist of the territory bounded as follows:

Beginning at the Upper New York Bay at the foot of Vanderbilt Avenue; thence westerly along Vanderbilt Avenue to Richmond Road; thence southwesterly and westerly along Richmond Road to Rockland Avenue (formerly Egbert Avenue); thence northwesterly along Rockland Avenue (formerly Egbert Avenue and Saw Mill Road) to Bradley Avenue (formerly Manor Road); thence northeasterly along Bradley Avenue (formerly Manor Road and Bradley Avenue) to Willow Brook Road; thence northwesterly and northerly along Willow Brook Road (formerly Gun Factory Road and Willow Brook Road) to Watchogue Road; thence easterly along Watchogue Road to a brook known as Palmers Run, located west of Woolley Avenue; thence northerly along Palmers Run to Forest Avenue (formerly Cherry Lane); thence northeasterly along Palmers Run to the intersection of Post and Jewett Avenues; thence northerly along Palmers Run and Bodines Creek to the Kill van Kull; thence westerly, following the New York and New Jersey State boundary line along the Kill van Kull, and Newark Bay to the Staten Island Sound, or Arthur Kill; thence southwesterly and westerly, following the New York and New Jersey State boundary line along the Staten Island Sound, or Arthur Kill, to Raritan Bay; thence easterly and northeasterly along the shores of Raritan Bay and Lower New York Bay to the Narrows; thence northerly along the Narrows and the shore of Upper New York Bay to the point of beginning.

And in addition to the above territory the following:

All of Shooters Island, so much of Buckwheat Island as is within the State of New York, all of Pralls Island, all of Meadow Island, all of Hoffman Island, all of Swinburne Island and all of Great Kills Point.

To comprise and be identical with the territory known as the Third, Fourth and Fifth Wards, Borough of Richmond, City of New York.

Ward 1.			
District 1.....	1,839	District 8.....	1,819
District 2.....	2,116	District 9.....	2,091
District 3.....	2,266	District 10.....	2,090
District 4.....	2,246	District 11.....	1,669
District 5.....	2,834	District 12.....	1,563
District 6.....	3,399	District 13.....	2,275
District 7.....	3,073	District 14.....	1,577
			30,587
Ward 2.			
District 24.....	2,130	District 30.....	2,006
District 26.....	3,679	District 31.....	2,231
District 27.....	1,808	District 32.....	2,076
District 28.....	2,277	District 33.....	2,197
District 29.....	1,984		
			20,388

Ward 3.			
District 15.....	1,716	District 20.....	1,553
District 16.....	1,680	District 21.....	2,159
District 17.....	2,058	District 22.....	2,274
District 18.....	1,465	District 23.....	2,377
District 19.....	1,862	District 25 (Farm Colony).....	4,144
			<hr/> 21,288
Ward 4.			
District 34.....	2,820	District 37.....	2,345
District 35.....	2,274	District 38.....	2,966
District 36.....	2,127	District 39.....	2,702
			<hr/> 15,234
Ward 5.			
District 40.....	2,491	District 43 (Mt. Loretto).....	3,162
District 41.....	1,461	District 44.....	2,209
District 42.....	1,129	District 45.....	1,819
			<hr/> 12,225
Total.			
Ward 1.....	30,587	Ward 4.....	15,234
Ward 2.....	20,388	Ward 5.....	12,225
Ward 3.....	21,288		
			<hr/> 99,722

Adopted by the Board of Aldermen May 29, 1916.

P. J. SCULLY, City Clerk.

DEPARTMENT OF FINANCE.**WARRANTS MADE READY FOR PAYMENT IN DEPARTMENT OF FINANCE FRIDAY, JUNE 2, 1916.**

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

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

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

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

WILLIAM A. PRENDERGAST, Comptroller.

Finance Voucher No.	Invoice Dates or Contract Number.	Received in Department of Finance.	Name of Payee.	Amount.
Board of Aldermen.				
7196			Rudolph P. Miller	\$500 00
7197			Albert A. Bautz.....	150 00
Armory Board.				
78116	3-17-16	5-24-16	Agent and Warden of Sing Sing Prison	1 20
78119	4-27-16	5-24-16	Fraser & Berau, Inc.....	71 15
78120	4-27-16	5-24-16	Fraser & Berau, Inc.....	79 47
Bellevue and Allied Hospitals.				
75110	1- 7-16.	3-25-16	The Holbrook Mfg. Co.....	727 65
75541	2-22-16	4-29-16	Geo. D. Harris & Company, Inc.....	38 22
78546	4-21-16	5-25-16	Fabric Fire Hose Co.....	2 50
78557	4- 4-16	5-25-16	Jordan Bros.....	9 95
78556	1-25-16	5-25-16	Burdett, Rowntree Mfg. Co.....	25 00
78555	4-13-16	5-25-16	Nanz Clock Company.....	1 25
78554	3-31-16.	4- 4-16	Underwood Typewriter Co.....	1 00
78553	3-31-16	5-25-16	E. Leitz	6 00
78552			Wm. A. Sander	26 00
77895	4-23-16	4-25-16	The Frank A. Rolling Co., Inc.....	10 00
76201	2-23-16	5-19-16	John Lucas	139 05
76211	9- 2-15	5-19-16	M. Weiss & Co.....	199 19
78572	4-19-16	5-25-16	Daniel Murphy	45 16
78571	3-31-16	5-25-16	The Republic Rubber Tire and Shoe Co., Inc.	4 30
78570	4- 6-16.	4-21-16	General Speedometer Repair Co.....	3 50
78561	3-23-16.	3-24-16	George Tiemann & Co.....	4 53
78562	4- 4-16.	4-18-16	The Kny-Scheerer Corporation.....	44 15
78559	4- 7-16.	4-14-16	Paul L. Bryant	8 72
78560	4-10-16	5-25-16	Wm. A. Sander	33 13
77460	2-10-16.	4- 7-16	R. Weiden	32 90
78545	3-27-16.	4-12-16	Francis H. Leggett & Co.....	19 62
78541	4-30-16	5-25-16	Richman & Samuels	89 99
75062	1-27-16.	4-14-16	James S. Barron & Co.....	26 91
77450	4-27-16	5-23-16	Chas. W. Brucher	46 00
77451	4- 7-16	5-23-16	Tingue, Brown & Co.....	21 75
77452	4-13-16	5-23-16	Robert Ferguson	23 92
77454	4-25-16	5-23-16	R. L. Polk & Company, Inc.....	12 00
75084	3-25-16	5-18-16	James M. Shaw & Co.....	14 58
77456	2-11-16	5-23-16	Geo. F. Sargent Company.....	39 00
77461	2-18-16	5-23-16	John Wanamaker, New York.....	17 05
77467	2-28-16	5-23-16	Funk & Wagnalls Company.....	12 00
77469	4- 5-16	5-23-16	Agent and Warden of Auburn Prison.	87 00
77470	4-17-16	5-23-16	The American Laundry Machinery Company	22 00
77472	3-29-16	5-23-16	Rotax Co.....	12 50
77475	4- 6-16	5-23-16	Mason's Supplies Co.....	2 00
77862	2- 4-16	5-24-16	D. B. Pershall & Son.....	6 00
77471	4- 5-16	5-23-16	Rubber Specialty Company.....	8 55
78530	11-30-15	5-25-16	The Hospital Supply Co.....	8 00
78529	9- 9-15.	12-24-15	E. B. Meyrowitz	7 10
78532	11-27-15	5-25-16	Geo. Allen & Son.....	80 45
78519	4-30-15	5-25-16	Wappler Electric Manufacturing Co., Inc.	18 75
78516	2-29-16.	4-20-16	B. Altman & Co.....	22 50
77440	4-14-16	5-23-16	Knickerbocker Ice Company.....	78 80
76531	3-25-16.	4-18-16	The Kny-Scheerer Corporation.....	56 00
78548	4-17-16	5-25-16	William Meier	63 52
77864	1-22-16	5-24-16	International Steam Pump Company ..	66 00
77863	4-15-16	5-24-16	The J. L. Mott Iron Works	28 80
77855	2-29-16.	4-24-16	Church E. Gates & Company	61 22
77885	3-30-16	5-24-16	F. Eckenroth & Son	33 35
77884	3- 7-16	5-24-16	The Blake & Knowles Steam Pump Works	84 32
77883	3-20-16	5-24-16	The Peck Bros. & Co.....	49 44
77879	3-27-16.	4-10-16	John Simmons Co.....	15 39
Municipal Civil Service Commission.				
79420	5-26-16		Geo. H. Eberle, Chief Clerk	\$29 80
Board of Coroners.				
80039			Carl Voegel	\$17 50
80038	5-29-16		Carl Voegel	5 50

Finance Voucher No.	Invoice Dates or Contract Number.	Received in Depart- ment of Finance.	Name of Payee.	Amount.	Finance Voucher No.	Invoice Dates or Contract Number.	Received in Depart- ment of Finance.	Name of Payee.	Amount.		
76487	5-10-16		County Court, Kings County.		78743	3- 8-16.	3-15-16	Vought & Williams.....	51 35		
79445		5-20-16	J. E. Bristol	\$189 00	78435	3-24-16	44419	5-25-16	H. C. Hallenbeck	66 80	
		5-26-16	New York Telephone Co.	21 34	77393	2-18-16		5-23-16	Peter Nelson	29 00	
			County Court, Bronx County.		78657	11-19-15		5-25-16	The New York Association for the Blind	22 44	
77816	5-19-16		5-24-16 Agent & Warden of Auburn Prison...	\$1 50			43074	5-24-16	E. Steiger & Co.....	24 05	
			Municipal Court of the City of New York.		78424	2-24-16		44170	5-24-16	Kalt Lumber Co.....	30 05
80282		5-29-16	Francis A. Ratigan	\$1 35	78391	2- 1-16	44052	5-25-16	Syndicate Trading Co.....	56 48	
80290		5-29-16	Stephen Collins	4 50	77122	2-29-16.	3-18-16	5-23-16	F. J. Kloes	56 36	
80283		5-29-16	John H. Nuhn	3 45	77938	2- 1-16	44052	5-24-16	Syndicate Trading Co.....	27 16	
80294		5-29-16	William N. George	1 20	77420	3-10-16		5-23-16	Herman Auskult	30 17	
80281			Clifford C. Reeve	2 30	78380	3- 6-16	44055	5-25-16	Wadsworth, Howland & Co., Inc.....	44 10	
			City Magistrates' Courts.		78401	2-21-16	44055	5-25-16	Wadsworth, Howland & Co., Inc.....	43 20	
79545		5-26-16	Frank Oliver, Chief Clerk	\$4 91	77323	1-14-16		5-23-16	Gurney Elevator Co.....	45 50	
			County Clerk, Bronx County.		77379	4- 6-16		5-23-16	Max Inkelas, Inc.....	69 00	
77821	4-29-16	5-24-16	Berkshire Products Co., Inc.	\$6 30	77333	3-23-16		5-23-16	J. D. Gordon	26 00	
77822	4- 1-16	5-24-16	The Albany Reporting Co.	75 00	77951	2- 9-16	44131	5-24-16	Tower Manufacturing & Novelty Co..	6 30	
			Hunter College.		78441	1-31-16	44131	5-25-16	Tower Manufacturing & Novelty Co..	78 35	
78466	4- 5-16	5-25-16	Tower Mfg. & Nov. Co.....	\$8 10	77392	3-28-16		5-23-16	Ohlhausen & Veit	99 75	
			College of The City of New York.		77383	3- 9-16		5-23-16	Jordon Bros., Inc.....	40 00	
76175	2- 4-16. 2- 5-16	5-19-16	Eimer & Amend	205 00	77329	3-24-16		5-23-16	McKeon & MacKenzie.....	43 48	
76169	2- 3-16. 2-11-16	5-19-16	Henry Holt & Co.	728 70	78737	12-31-15		5-25-16	A. E. Chamberlain	16 30	
76166	2- 1-16. 2- 2-16	5-19-16	The Macmillan Co.	125 28	78720	10-21-15		5-25-16	J. E. Linde Paper Co.....	1 50	
			Board of City Record.		78687				T. C. Moore & Co., Agents for Inter- national Time Recording Co.....	1 00	
79728	5- 1-16. 5-18-16	5-27-16	P. J. Collison & Co.	\$93 62				5-25-16	Milton Bradley Co.....	5 60	
79727	5- 9-16. 5-19-16	5-27-16	Tower Manufacturing & Novelty Co..	66 05	78688	3-16-16		5-23-16	Simon Russek, Assignee of R. Solo- mon & Son, Inc.....	86 00	
79726	5-12-16	5-27-16	Henry Bainbridge & Co.	20 25	77252	3-29-16		5-23-16	H. W. Johns-Manville Co.....	4 40	
79725	5-18-16	5-27-16	Remington Typewriter Company	12 20			44072	5-23-16	A. D. Evertsen Co.....	49 00	
79724	5- 8-16. 5-20-16	5-27-16	Vacuo Static Carbon Co.	53 48	78414	1-25-16		5-23-16	John Byrns	26 19	
79722	5- 3-16. 5- 5-16	5-27-16	The Brooklyn Daily Eagle	63 62	77321	3-24-16		5-23-16	Julius Haas Sons	62 31	
79720	5-16-16. 5-19-16	5-27-16	Tiebel Bros.	88 74	77318	3-30-16. 4- 4-16		5-23-16	William J. Olvany	39 55	
79719	5-18-16	5-27-16	American Bank Note Company	52 50	77017			5-23-16	William J. Olvany	42 18	
79717	5-12-16	5-27-16	Koller & Smith Co.	1 40	77361	3-18-16		5-25-16	F. W. Devoe & C. T. Reynolds Co....	1 70	
79716	5-12-16	5-27-16	The Trow Press	70 00	79230	3-17-16		5-25-16	Thomas Garnar & Co.....	5 00	
79629	5-17-16	5-26-16	M. B. Brown Printing & Binding Co..	8 55	79229	3- 2-16		5-25-16	Hammacher, Schlemmer & Co.....	1 00	
79803	5- 6-16. 5-12-16	5-27-16	The J. W. Pratt Co.	64 85	79226	2-15-16		5-25-16	The Arabol Mfg. Co.....	7 50	
79753			David Ferguson, Supervisor	30 00	79225	2-29-16		5-25-16	Abraham & Straus	1 50	
			Department of Correction.		79224	3-16-16		3-25-16	J. D. Johnson Co.....	5 53	
75399		42675	5-18-16 William H. Egan	\$1,626 00	79223	3-15-16		5-25-16	Hull, Grippen & Co.....	1 14	
76330	3-25-16	5-20-16	The Good Roads Machinery Company, Inc.	945 00	79231	3-16-16		5-25-16	Eugene Dietzen Co.	4 00	
			5-16-16 Westchester Fish Co.	264 00	77289	3- 6-16		5-23-16	A. Itzkowitz	31 40	
74067	3- 2-16. 3-23-16	5-25-16	Montgomery & Co., Inc.	55 14	78734	3- 3-16. 3-18-16		5-25-16	L. Barth & Son	3 10	
78625	1-14-16	5-20-16	Ayres Galloway Hardware Co., Inc..	62 57	78727	3-14-16		5-25-16	Keuffel & Esser Co.	5 60	
76327	3-31-16	5-20-16	Ayres & Galloway Hardware Co., Inc.	75 96	78728			5-25-16	Schrock & Squires	20 30	
76328	4-30-16	5-25-16	D. B. Pershall & Son	12 80	78731	2-14-16. 2-15-16		5-25-16	Calvin Tomkins	24 50	
78616	5- 6-16. 5-17-16	5-25-16	Richardson & Boynton Co.	4 30	78732	3-10-16		5-25-16	Singer Sewing Machine Co.	7 78	
78618	5- 3-16	5-25-16	Nason Manufacturing Co.	16 52	78713	3-23-16. 4- 3-16		5-25-16	Frank Kiebitz	22 50	
78615	5-19-16	5-25-16	Lippman & Co.	1 00	78742	2- 2-16. 2-26-16		5-25-16	Theo. Moss & Co.	42	
78613	5-15-16	5-25-16	J. P. Duffy Company	30 20	78704	2-15-16		5-25-16	Scientific Equipment Co.	22	
78610	2-25-16	5-25-16	Chas. H. Heinsohn	27 00	78703	12-14-15		5-25-16	Remington Typewriter Co.	6 00	
78612	3-30-16	5-25-16	De La Vergne Machine Co.....	12 55	78702	3-10-16		5-25-16	Agent & Warden of Auburn Prison..	78 60	
78609	4- 6-16	5-25-16	Candee, Smith & Howland Co.....	2 40	78741	3-15-16		5-25-16	Montgomery & Co., Inc.....	2 23	
78608	5-17-16	5-25-16	Wm. E. Kleine & Co.	6 00	78740	11-30-15		5-25-16	Manhattan Electrical Supply Co.	15 50	
78605	4-25-16	5-25-16	Wm. Langbein & Bro.	1 50	78706	12- 9-15		5-25-16	The Macmillan Co.	10 05	
78619	5- 2-16	5-25-16	James McVeigh, Agt. Western Union Tel. Co.	1 69	78709	7-13-15		5-25-16	Hammacher Schlemmer & Co.	2 19	
78621	4-24-16	5-25-16	Alexander Mackintosh	15 00	78723	2-21-16		5-25-16	Syndicate Trading Co.	3 28	
			5-25-16 New York Central R. R. Co.....	3 53	78724	3- 8-16		5-25-16	The J. W. Pratt Co.	10 00	
78622			5-25-16 James S. Barron & Co.....	18 70	78712	11-24-15		5-25-16	New York Belting & Packing Co.....	63	
78624	4-20-16	5-27-16	Dr. Hilton J. Shelly	16 00	78705	11-30-15		5-25-16	F. C. Stechert Co.	50	
78606	4-29-16		Arthur C. Jacobson & Sons.....	161 90	79387			5-26-16	John W. Davis, Director	2 10	
79806	12-31-15	5-20-16	Conklin & Cummins	130 50	79388			5-26-16	Rufus J. Suits, Chief Clerk	2 46	
76319	5- 1-16	5-20-16	William Farrell & Son.....	442 00	76438		40832	5-20-16	Commercial Construction Co.	1,077 00	
76318	4- 3-16. 4- 6-16	5-20-16	F. N. DuBois & Co.	112 50	76440		42506	5-20-16	The A. H. Andrews Co.	249 91	
76329	1-27-16				76439		40830	5-20-16	Wm. J. Olvany, Assignee of Wm. C. Strange and Wm. Smith, Receivers of Blake & Williams	5,357 30	
			District Attorney, Queens County.					5-20-16	M. P. Allen & Son	119 00	
7183		6- 1-16	Joseph Wrana	5 00	76419			5-20-16	James McCutcheon & Co.	115 50	
7184		6- 1-16	Ignatius Stein	5 00	76437	10-28-15		5-20-16	Philip Mittleman	978 00	
7185		6- 1-16	Otto Bryning	5 00	76415	3-31-16	41369		Sohmer & Co.	855 00	
7186		6- 1-16	Ferdinand D'Orbersan	30 00	64193		41369		Sohmer & Co.	666 00	
7187		6- 1-16	Albert T. Weston	15 00							
7188		6- 1-16	Joseph Wrana	15 00							
7189		6- 1-16	Salvatore Magnoni	15 00							
7190		6- 1-16	Benjamin T. Tilton	20 00							
7191		6- 1-16	J. Paul McHugh	5 00							
7193			Leonard C. L. Smith	75 00							
			District Attorney, Kings County.								
80339		5-29-16	Owen J. Carney	4 95							
80338		5-29-16	Mark B. Royce	72 80							
			District Attorney, Bronx County.								
79203	4-29-16	5-25-16	Berkshire Products Co.....	3 60							
79204	5-12-16	5-25-16	J. Schapiro	5 60							
			Department of Docks and Ferries.								
74135	12-30-15	5-16-16	Pattison & Bowns	1,207 50							
			Board of Elections.								
74322			Art Metal Construction Co., Inc.....	992 00							
			Board of Estimate and Apportionment.								
81442		6- 2-16	Joseph Haag, Secretary	70 85							
			Department of Education.								
76407			Philip Simberg	11 13							
76407			Rose Goldstone, Assignee of Philip Simberg	2 48							
64197		41367	Wm. Knabe & Co.....	873 00	80064						
47801		41369	Sohmer & Co.	1,282 50	80063						
64200		41365	Hardman, Peck & Co.....	360 00	80062						
			5-25-16 J. M. Saulpaugh's Sons.....	20 00	80058	4- 5-16		5-29-16	Putnam A. Bates, Electrical Engineer	54 65	
78696	10-25-15	5- 8-16	L. P. Gfroerer Co.....	33 91	80059	4- 5-16					
71242	3-10-16	5-24-16	Empire Rubber & Tire Co.....	6 45	75497	3-31-16	43933	5-18-16	Samuel E. Hunter	\$37 37	
77964	1-28-16	5-24-16	Putnam & Co.	2 32	78169	4-29-16	43933	5-24-16	Samuel E. Hunter	3 56	
77960	1-24-16	44045			79670	1-24-16	42995	5-26-16	Geo. D. Harris & Co., Inc.....	63 70	
78433	3-20-16	44564	5-25-16 Paul Baron	23 30	78574	12-23-15		5- 1-16	Irving Van Inwegen	25 00	
78436	3-22-16	44566	5-25-16 Gutenberg Printing Company.....	6 85	77554	4- 1-16		5-23-16	Westchester Fish Co.	9 69	
78431	3-25-16	44570	5-25-16 M. J. Tobin	1 31	76061	4-13-16		5-19-16	Nason Mfg. Co.	417 40	
78432	3-31-16	44566	5-25-16 Gutenberg Printing Company, Inc.....	29 50	76039	4- 5-16		5-19-16	Morse & Rogers	110 10	
78429	3-16-16	44564	5-25-16 Paul Baron	96 85	77561	4-27-16		5-23-16	Burton & Davis Co.....	59 65	
78423	1- 4-16	41485	5-25-16 F. W. Devoe & C. T. Reynolds Co....	10 83	78209	4-30-15		5-24-16	Standard Utility Co.	7 50	
79232	3-13-16. 3-21-16	5-25-16	Louis Dejonge & Co.	20 25	79686	4-25-16. 5- 5-16		5-25-16	H. D. Gould Co.	70 00	
77902	1-31-16	44132	5-24-16 Geo. T. Montgomery	15 78	71787	3- 8-16		5- 9-16	Pittsburgh Plate Glass Co.....	25 00	
78837	1- 4-16	41659	5-25-16 Milton Bradley Company.....	38 62	79134	5-12-16		5-25-16	Rauff Electric Co.	24 75	
78382	2-28-16	44503	5-25-16 Hinds, Noble & Eldredge.....	78 72	79533	5- 3-16		5-27-16	Dr. William H. Park, Director.....	16 20	
77922	1-15-16	39291	5-24-16 Ginn & Co.	12 50	80334				George A. Roberts, Chief Clerk.....	20 98	
77937	3-11-16	44012	5-24-16 F. S. Banks & Co.....	10 35							
78443	2-17-16	44012	5-25-16 F. S. Banks & Co.....	55 14							
44114	1-29-16. 2-21-16	5-25-16	Metropolitan Supply Co.....	73 02	79435						
78379	2-15-16	44132	5-25-16 George T. Montgomery	35 79							
78699			Department of Correction	16 30	77159	4-28-16		5-23-16	Joseph Cunningham	\$30 00	
78701	6-30-15	5-25-16	Dennis & Baird	13 20	79385						

Finance Voucher No.	Invoice Dates or Contract Number.	Received in Department of Finance.	Name of Payee.	Amount.	Finance Voucher No.	Invoice Dates or Contract Number.	Received in Department of Finance.	Name of Payee.	Amount.	
80225			The Philanthropin Hospital	128 75	78086			Imperial Paint Co.	45 20	
80226			The Swedish Hospital in Brooklyn....	273 75	80356	4-29-16	5-29-16	James D. Moran	3 00	
80224			The Ozanam Home for Friendless Women	347 43	79063	4-29-16	5-25-16	President of the Borough of Richmond.		
80223			St. John's Long Island City Hospital..	1,726 24	79059	5- 5-16	5-25-16	Zorn & Schrengauer	\$49 60	
80222			St. Peter's Hospital	1,577 85				Gregg Brothers	3 92	
80221			Roman Catholic Orphna Asylum Society, St. Joseph's Female Orphan Asylum	5,795 19	76946	4-19-16	5-23-16	Public Service Commission.		
80220			Peabody Home for Aged and Indigent Women	215 20	79887			Charles Schad, Inc.	\$15 75	
80216			Mary Immaculate Hospital	592 65	7161			Kelsey, Suydam & Mollenhauer, agents for William C. Schirmer, sole executor of the estate of William Schirmer, deceased	25 00	
80215			Lebanon Hospital Association	3,123 54	76953	5- 1-16	5-23-16	Grover C. Emery	300 00	
80219			New York Ophthalmic Hospital.....	365 55	79037			James P. Devine	48 00	
81280		6- 2-16	Henry E. Fox, or Blandy, Mooney & Shipman, attorneys	3,257 34	79037			Louis Berger or the Chamberlain of The City of New York	1,000 00	
			Board of Parole.		79037			Louis Berger or the Chamberlain of The City of New York	3,000 00	
81279			Anthony McQuade, or James L. Quackenbush, attorney	\$142 66				Louis Berger or the Chamberlain of The City of New York	3,293 73	
			Department of Parks.					Department of Public Charities.		
79254	5-19-16	5-25-16	M. B. Brown Printing & Binding Co....	\$3 25	74464	37968	5-16-16	Charles B. Meyers.....	14 82	
79239	4-30-16	5-25-16	Amawalk Nursery	20 00	80052		5-29-16	A. M. Wilson, Director	515 00	
			Police Department.		80050		5-29-16	William J. Doherty, Second Dep. Commissioner	625 00	
73500	4-27-16	5-13-16	Rutherford Rubber Co.	\$618 91	80053		5-22-16	A. M. Wilson, Director.....	257 00	
73478			American Mason Safety Tread Co....	154 25	80351		5-29-16	William J. Doherty, Second Dep. Commissioner	295 00	
75557	4-10-16	42995	Geo. D. Harris & Co., Inc.....	1,122 92	78135	1- 9-16.	4-24-16	5-24-16	Crandall Packing Company.....	66 16
73477			Thomas F. Burke	399 00	77621	3-30-16	43938	5-23-16	Conron Bros. Company.....	16 38
76370	3-31-16	42962	T. R. Thorn & Co.	174 12	7087			5-29-16	C. E. Pearson	40 00
7163			John F. Brennecke	3,272 51	7088				M. F. O'Shea	40 00
79706			Joseph L. Pucciano	24 80	7089				John L. Halloran	33 50
79706			Joseph L. Pucciano	24 80	78146	8-31-15.	4-29-16	5-24-16	Great Bear Spring Co.....	25 80
79707	5-10-16		Henry Jay Case	7 60	78148	3-22-16.	4-24-16	5-24-16	James S. Barron & Co.....	92 79
80424	5-18-16		Frank Batzing	11 25	80049	5-10-16		5-29-16	Wm. Burgess Cornell, Med. Director.	17 37
80425			Edward C. Burgess	23 35					Department of Taxes and Assessments.	
80427			Martin S. Owens	82 30	79565	4-21-16		5-26-16	James O'Neill	25 00
80426			John J. Behan	13 16	79564	5-15-16		5-26-16	The Legislative Index Publishing Co..	50 00
80429			Charles Corrao	2 80					Department of Water Supply, Gas and Electricity.	
80430			Henry C. Mugge	20 80	63441		39107		Edison Lamp Works of General Electric Co.	1,640 16
80428			John Fitzpatrick	131 15	76111	4-21-16		5-19-16	The A. P. Smith Mfg. Co.....	220 00
76371	5- 8-16	44177	Rutherford Rubber Co.	114 12	76112	5- 1-16		5-19-16	D. B. Fleming & Sons, Inc.....	359 80
76360	4-29-16		The Smith-Worthington Co.	128 31	78939	4-15-16		5-25-16	Thomson Meter Co.....	3 70
76355	4-26-16		Berry Bros., Inc.	162 50	78936	4-21-16		5-25-16	Hersey Mfg. Co.....	5 00
76337	3-14-16.	4-18-16	Climax Stationery Co.	820 60	77497	4-19-16		5-23-16	General Electric Co.....	61 89
76336	3-31-16		William Farrell & Son	563 76	77492	3-20-16		5-23-16	Westinghouse Electric & Manufacturing Co.	41 00
			President of the Borough of Manhattan.		78930	4-18-16		5-25-16	Neptune Meter Company.....	3 65
75851	5- 8-16		C. Renzland & Co.	\$484 90	78934	4-29-16		5-25-16	Atlantic Basin Iron Works.....	35 08
75860	4-30-16		Cosmus & Washburn	107 00	78933	4-26-16		5-25-16	Simplex Valve & Meter Co.....	5 00
75854	4-15-16		Lafayette Mirror Company	80 00	77511	5- 9-16		5-22-16	A. F. Brombacher & Co.....	65 00
78043			F. S. Benedict	25 00	78941	4-30-16		5-25-16	Haller & Haller.....	11 07
75903	5- 4-16		W. J. Fitzgerald	180 38	79426			5-26-16	W. H. O'Keefe, Engineer in Charge..	60
75833	11-15-15.	1-10-16	Agent and Warden, Auburn Prison ..	139 50	79427	4-29-15		5-26-16	Thomas J. Kelaher, Inspector.....	7 33
75843	5- 4-16		W. J. Fitzgerald	500 00	79425			5-26-16	R. W. Gulick, Draftsman.....	13 28
			President of the Borough of Brooklyn.		79428	4-30-16		5-26-16	H. R. Emerson, Clerk.....	152 91
77718	3-31-16.	4-29-16	Stevenson & Marsters, Inc.	\$29 81	80280			5-26-16	W. V. Barnes, Assistant Engineer....	7 50
77691	5- 9-16		George F. Bason	26 00	80279			5-29-16	Wm. C. Munroe, Engineer.....	1 00
77689	5- 1-16		George F. Bason	83 00	76482			5-29-16	Thomas C. Kadien, Jr.....	2 50
77693	4-25-16		Agent and Warden, Auburn Prison ..	27 50					New York Telephone Company.....	3,792 54
			President of the Borough of Queens.							
78243	4-29-16		Alexander R. Boyce, Inc.	\$8 75						
79081			L. S. Fulton	5 00						

VOUCHERS RECEIVED IN DEPARTMENT OF FINANCE, FRIDAY, JUNE 2, 1916.

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

WILLIAM A. PRENDERGAST, Comptroller.

Finance Voucher No.	Invoice Date or Contract Number.	Name of Payee.	Amount.
		County Court, Bronx County.	
81484		Louis A. Cohen	\$12 00
81485		Harry B. Harris	9 75
81486		George A. Daly	7 70
		Court of Special Sessions.	
81315	4-30-16	Knickerbocker Towel Supply Co.	\$12 00
81316	4-29-16	Berkshire Products Co., Inc.	9 00
81317	5- 9-16	The American Law Book Co.	16 00
81318	5-22-16	Jas. T. Boyle & Co.	16 60
81319	4- 1-16	The American Law Reporting Co.	75 00
81320		The New York Law Journal	7 00
81321	5-15-16	The Legislative Index Pub. Co.	75 00
81314	44356	New York Telephone Co....	66 11
81322	4-30-16	New York Telephone Co....	32 25
		County Clerk, Queens County.	
81481		Long Island R. R. Co.....	\$51 00
81482		Geo. Gaige	5 55
81483	5-24-16	Fallon Law Book Co.....	31 00
		Department of Correction.	
81306	5-20-16	The Frank Richard & Gardner Co.	\$8 00
81307	4-29-16	S. H. Creeden	10 00
81308	5-19-16	M. Seitelbach	411 00
81309	5-22-16	Department of Correction..	36 00
81310	3-18-16	Buck Bros.	205 74
81294	5-22-16	Thos. C. Dunham.....	22 02
81295	5-12-16	The East River Mill & Lumber Co.	29 01
81296	5-12-16	F. Eckenroth & Son Co....	22 50
81297	5-23-16	Hull, Grippen & Co.....	2 75
81298	5-11-16	E. F. Keating Co.	16 70
81299	5- 2-16	Wm. E. Kleine & Co.....	3 70
81300	5-18-16	The Smith Worthington Co.	3 00
81301	5- 8-16	Stanley & Patterson	17 25

Finance Voucher No.	Invoice Date or Contract Number.	Name of Payee.	Amount.	Finance Voucher No.	Invoice Date or Contract Number.	Name of Payee.	Amount.
81302	5-10-16	Westinghouse Electric & Mfg. Co.	1 85	81415	44077	Israel Moraff	7 85
81302	5-10-16	J. S. Woodhouse Co.....	67 97	81416	44131	Tower Mfg. & Nov. Co....	20 79
81304	4-25-16	G. B. Raymond & Co.....	6 48	81417	44131	Tower Mfg. & Nov. Co....	3 25
81305	5-16-16	Nason Mfg. Co.	13 50	81418	44074	The Manhattan Sup. Co....	34
81282	5-15-16	Benj. Horton	269 64	81419	44130	E. Steiger & Co.....	1 32
81283	4-15-16	Standard Oil Co. of N. Y..	287 50	81420	44170	Kalt Lumber Co.....	61 95
81284	4-20-16	J. K. Krieg Co.....	1 50	81421	44121	Poirier & Lindeman Co....	11 82
81285	4-25-16	James A. Miller	4 00	81422	44046	The Prang Co.....	8 28
81286	5-17-16	Hull, Grippen & Co.....	1 80	81423	44126	N. Y. Architectural Terra Cotta Co.	75
81287	5-16-16	Ayres Galloway Hardware Co., Inc.	1 50	81424	44050	Standard Oil Co. of N. Y..	3 25
81288	5- 8-16	Buck Bros.	24 95	81384	41699	Geo. T. Montgomery.....	25 31
81289	5-25-16	Hull, Grippen & Co.	8 00	81385	41474	Tower Mfg. & Nov. Co....	2 00
81290	5- 8-16	Bramhall, Deane Co.....	12 50	81386	41241	Fred'k Pearce Co.....	33 50
81291	5-15-16	The Barrett Co.....	258 30	81387	41195	Tower Mfg. & Nov. Co....	6 40
81292	5-24-16	Candee, Smith & Howland Co.	3 60	81388	41124	M. J. Tobin.....	45 83
81293	5- 9-16	Crandell Packing Co.....	4 50	81389	41356	Woldenberg & Schaar.....	42
		Department of Education.		81390	42775	Woldenberg & Schaar.....	1 75
81311	5-15-16	M. J. Tobin	\$45 34	81391	41201	Jas. S. Barron & Co.....	34 77
81312	4-11-16	M. J. Tobin	226 50	81392	41343	Knickerbocker Supply Co..	24 77
81313	4- 6-16	M. J. Tobin	590 00	81393	41163	American Lead Pencil Co..	6 60
81427	44570	M. J. Tobin	223 00	81394	41206	Wm. Zinsser & Co.....	12 57
81428	44087	M. J. Tobin	63 73	81395	41540	Wm. Zinsser & Co.....	3 50
81429	44570	M. J. Tobin	2 54	81396	41207	Louis S. Gimbel.....	4 80
81430	44132	Geo. T. Montgomery	53	81397	41495	Jas. S. Barron & Co.....	9 57
81431	44566	Gutenberg Printing Co....	112 00	81398	41175	Bloomingtondale Bros.	14 07
81432	44422	Wm. Bratter	31 20	81323	41590	Strauss Bros.	430 03
81433	44570	M. J. Tobin	6 60	81324	41321	Jas. A. Miller.....	2 30
81434	44564	Paul Baron	303 39	81325	41310	Sam'l E. Hunter.....	50
81435	44420	The J. W. Pratt Co.....	5 25	81326	44384	Premium Dairy Co., Inc....	318 55
81436	44420	The J. W. Pratt Co.....	6 85	81327	44131	Tower Mfg. & Nov. Co....	1 63
81425	44083	J. W. Saulpaugh's Sons ..	2 65	81328	44077	Israel Moraff	3 89
81426	44114	Metropolitan Supply Co....	9 12	81329	43276	Burns Bros.	195 46
81437	41124	M. J. Tobin	240 69	81330	43277	C. H. Reynolds & Sons.....	59 09
81438	44087	M. J. Tobin	1,976 67	81331	42721	Geo. D. Harris & Co., Inc..	1,785 80
81350	44056	Wm. P. Youngs & Bros....	94 90	81332	44077	Israel Moraff	28 44
81351	44132	Geo. T. Montgomery	7 78	81333	42719	Burns Bros.	17 89
81352	44166	Schoverling, Daly & Gales..	79 01	81399	41484	The J. W. Pratt Co.....	1 60
81353	44132	Geo. T. Montgomery	78 22	81400	41672	Chas. Scribner's Sons.....	15 80
81354	41378	Geo. T. Montgomery	12 13	81401	41380	A. G. Spaulding & Bros....	22 50
81355	43244	Elson Art Pub. Co.....	24 40	81402	41346	Hammacher, Schlemmer Co.	125 34
81356	41660	A. J. Nystrom & Co., Inc..	33 44	81403	41183	E. Steiger & Co.....	38 00
81357	44166	Schoverling, Daly & Gales..	3 46	81404	41378	Geo. T. Montgomery.....	12 50
81358	44045	Putnam & Co.	5 10	81405	41461	J. W. Pratt Co.....	9 56
81359	44166	Schoverling, Daly & Gales..	5 75	81406	41542	J. B. Greenhut & Co.....	4 54
81360	44569	Peerless Manifold Book Co.	38 40	91407	41784	Bloomingtondale Bros.	78
81361	44397	J. & T. Adikes	219 64	81408	41201	Jas. S. Barron & Co.....	26
81414	41485	F. W. Devoe and C. T. Reynolds Co.	2 69	81409	41629	American Book Co.....	83 00
				81410	41346	Hammacher, Schlemmer & Co.	49
				81411	41163	American Lead Pencil Co..	13 86

Invoice			Invoice			Invoice		
Finance Date	Name of Payee.	Amount.	Finance Date	Name of Payee.	Amount.	Finance Date	Name of Payee.	Amount.
Vouch- or Con-			Vouch- or Con-			Vouch- or Con-		
No. tract			No. tract			No. tract		
Number.			Number.			Number.		
81412	41475 H. T. Dakin.....	33	81280	Henry E. Fox	19 42	81517	Wm. A. Prendergast.....	1,023 50
81413	41347 Cavanagh Bros. & Co.....	34	81210	Neponsit Realty Co.....	22 43	81518	Wm. A. Prendergast.....	1,399 74
81334	39295 American Book Co.....	5 21	81211	Sophie Lopate	314 36	President of the Borough of The Bronx.		
81335	39289 The Macmillan Co.....	15 98	81212	Wm. A. Pusch	6 08	81552	44533 Watson Cont. Co.....	\$456 82
81336	432 The Macmillan Co.....	28 54	81213	Emil Mayer	21 09	81553	44556 Geo. H. Curtis Const. Co...	1,184 55
81337	39293 Chas. Scribner's Sons.....	2 00	81214	Title Guarantee & Trust Co.	49 20	81554	43361 J. B. Malatesta.....	1,330 25
81338	39410 Syndicate Trading Co.....	2 91	81215	Ellery O. Anderson	659 82	81555	44095 J. Di Menna.....	1,891 25
81339	41629 American Book Co.....	96	81216	Edward McCormick	32 28	President of the Borough of Brooklyn.		
81340	41183 E. Steiger & Co.....	22 00	81217	Howard Estates Develop- ment Co.	2 00	81208	42815 Bklyn. Alcatraz Asp. Co....	\$4,946 40
81341	43791 Bramhall Deane Co.....	97 85	81218	Lawyers' Mortgage Co.....	269 85	President of the Borough of Queens.		
81342	41220 Jas. A. Miller.....	1 80	81219	Jacob Stroh	14 28	81565	Fred B. George.....	\$33 81
81343	41321 Jas. A. Miller.....	1 80	81220	Lewis Gotthelf Const. Co...	3 07	81566	42869 Wm. J. Scanlon Co.....	1,983 82
81344	41531 Sam'l Lewis	16 80	81221	Adele D. Potts	258 00	81567	42869 Wm. J. Scanlon Co.....	1,990 19
81345	41214 Abraham & Straus.....	39 50	81222	Andrew F. Gunther	30 58	81568	43403 H. J. Mullen Cont. Co.....	11,013 66
81346	41352 The Smith Tablet Co.....	2 86	81223	Wm. J. Rubin	17 30	President of the Borough of Richmond.		
81347	41643 World Book Co.....	22 50	81224	Harry Zirinsky	40 17	81556	43526 O'Brien & Fleming.....	\$1,296 43
81348	41640 Scott, Foresman & Co.....	57	81225	The Maylew Co., Inc.....	22 20	81557	43404 The Sicilian Asp. Pav. Co.	7,726 23
81362	41723 Chas. Scribner's Sons.....	22 40	81226	Johnanna Corcoran	1 65	Department of Public Charities.		
81363	41675 The Kny Scheerer Co.....	50	81227	Benj. Borowsky	3 00	81499	5-15-16 H. Kohnstamm & Co.....	\$10 00
81364	41183 E. Steiger & Co.....	8 08	81228	Lelia R. Pease	51 97	81500	5-6-16 Wm. J. Love	4 42
81365	41676 Woldenberg & Schaar.....	15 60	81229	John Murphy, executor of estate of John J. Cartin, de- ceased	8 93	81247	4-26-16 Thomas	94 82
81366	41378 Geo. T. Montgomery.....	14	81230	Martin Whitman	3 67	81248	3-16-16 John Campbell	51 75
81367	41542 J. B. Greenhut & Co.....	3 47	81231	John F. Brenbecke	35 71	81249	4-26-16 H. H. Lineaweaver & Co...	299 16
81368	41201 Jas. S. Barron & Co.....	7 14	81232	Annie M. Tully, widow of Jas. J. Tully	18 00	81250	4-26-16 S. Tuttle's Son & Co.....	970 22
81369	41744 Remington Typewriter Co...	220 00	81233	Harry E. Flynn, adminis- trator of the estates of Wm. H. Flynn, deceased	37 59	81251	5-15-16 The Legislative Index Pub. Co.	75 00
81370	44023 Defiance Mfg. Co.....	25	81349	Edgar S. Follwell	124 00	81252	5-11-16 Munson Supply Co.....	6 30
81371	41491 Syndicate Trading Co.....	84	81439	5-25-16 Elmer G. Sammis	315 00	81253	4-10-16 The Modern Hospital Pub. Co.	3 00
81372	41181 Gerry & Murray.....	17 50	81440	John F. Canavan	310 00	81254	5-11-16 Tower Mfg. & Novelty Co...	2 25
81373	41124 M. J. Tobin.....	44 20	81441	Almet Reed Latson	190 00	81255	4-22-16 Yawman & Erbe Mfg. Co...	12 62
81374	41378 Geo. T. Montgomery.....	7 79	Public Administrator, New York County.			81256	5-11-16 Theo. Moss & Co.....	8 73
81375	41699 Geo. T. Montgomery.....	1 01	81209	4-28-16 Kurtz Bag Co.	\$10 50	81257	5-12-16 The J. W. Pratt Co.....	20 70
81376	41676 Woldenberg & Schaar.....	41 89	Department of Parks, Borough of Brooklyn.			81258	4-5-16 The Barrett Co.....	35 75
81377	41475 H. T. Dakin.....	77	81452	44634 Thos. F. Guidera	\$1,349 00	81259	5-8-16 O. Friedlander Chemical Co.	90 00
81378	41677 Standard Scientific Co.....	2 00	81443	E. F. Wagner	8 00	81260	5-9-16 Geo. Strong Harral Co....	4 20
81379	41679 Fred'k Pearce Co.....	7 04	81444	F. Martiz	8 00	81261	4-15-16 Edgar A. Murray Co.....	40 00
81380	41461 The J. W. Pratt Co.....	15 03	81445	Chas. Brein	9 00	81262	4-14-16 Jas. A. Miller	56 70
81381	41682 Parex Mfg. Co.....	1 39	81446	Herman Huchetal	9 00	81263	4-18-16 Saverno Products Co., Inc...	63 76
81382	44069 Henry H. Harrison.....	18	81447	David Domroe	59 00	81264	4-29-16 Knickerbocker Ice Co.....	19 80
81383	41676 Woldenberg & Schaar.....	13 50	81448	A. Rappaport	9 00	81265	5-3-16 Milton Bradley Co.....	41 04
Department of Finance.			81449	Jacob Lehman	9 00	81266	5-16-16 The De Felice Studio	4 00
81442	Jos. Haag	\$70 85	81450	Jas. Henry Eckersley	28 00	81267	5-2-16 The Lily Cup Co.....	3 50
Fire Department.			81451	Ernest Arnold	9 00	81268	5-5-16 John Wanamaker, N. Y.....	289 50
81547	5-17-16 Bosch Magneto Co.....	\$13 67	81452	5-11-16 Standard Oil Co. of N. Y.	340 00	81269	5-15-16 Frank E. Haynes & Son.....	3 90
81548	5-12-16 Bernard Knopp	30 00	81453	5-20-16 Keuffel & Esser Co.....	19 70	81270	5-17-16 Peter Henderson & Co.....	136 00
81549	5-17-16 Louis J. Bowes.....	9 00	81454	5-12-16 Scientific Equipment Co...	30 85	81271	2-25-16 Nitrate Agencies Co.....	998 33
81550	5-5-16 Winkler Const. Co.....	190 00	81455	4-24-16 A. & W., Auburn Prison..	7 00	81272	5-10-16 Stump & Walter Co.....	15 00
81551	5-15-16 M. Freudenheim	165 00	81456	5-23-16 Greenhut Co.....	7 23	81273	4-3-16 S. D. Woodruff & Sons.....	107 93
81534	3-17-16 Photoprint Co.....	15 80	81457	4-3-16 Electric Hose & Rubber Co...	240 00	81274	5-16-16 Lexington Auto Supply Co...	4 50
81535	4-24-16 S. Trimmer Sons, Inc.....	325 00	81458	5-24-16 Hill & Langstroth	33 15	81275	4-30-16 Hoffman Taxicab Co.....	93 82
81536	5-17-16 Catherine Pryor	13 27	81459	5-18-16 Johnson Bros.	11 52	81276	4-30-16 Belmont Garage	32 70
81537	5-5-16 Norwich Pharmacal Co.....	61 38	81460	5-19-16 Frederick J. Herr	13 17	81277	5-1-16 Greenpoint Taxicab Co....	42 00
81538	5-4-16 Johnson & Johnson.....	1 31	81461	5-22-16 Paul Ayres Co., Inc.....	94 58	81501	4-23-16 Meyers Plate and Window Glass Co.	24 00
81539	5-1-16 John Carle Sons.....	20 70	81462	5-24-16 Robt. M. Forman	75 00	81502	2-28-16 Oscar E. Swenson	15 00
81540	4-1-16 Sanborn Map Co.....	48 75	81463	5-24-16 Francis Motor Car Co.....	985 00	81503	4-20-16 Jas. M. Shaw & Co.....	218 46
81541	5-17-16 U. S. Tire Co.....	6 52	81476	Jas. M. Murphy	85 00	81504	5-15-16 Syndicate Trading Co.....	168 77
81542	5-12-16 McKesson & Robbins.....	3 40	81477	Thos. F. Guidera	175 00	81505	4-28-16 The H. B. Clafin Corp.....	905 85
81543	5-12-16 Knickerbocker Supply Co...	7 20	81478	5-11-16 Edward H. Mooney.....	690 78	81506	4-5-16 The J. L. Mott Iron Works	176 00
81544	5-19-16 Livingston Radiator Co.....	140 25	81479	5-20-16 Albert & Davidson, Inc.....	21 54	81507	4-29-16 H. W. Johns-Manville Co...	50 40
81545	5-18-16 Bingham Bros. Co.....	10 00	81480	5-15-16 Thos. M. Delaney.....	7 85	81508	4-25-16 Department of Correction..	68 31
81546	4-10-16 Underwood Typewriter Co...	1 25	81481	5-23-16 Dayton & Montgomery.....	7 50	81509	4-20-16 Columbia Buggy Co.....	4,715 00
81529	Putnam A. Bates	200 05	81482	5-25-16 Bloodgood Nurseries	108 75	81488	5-13-16 Albert Bloch & Sons.....	11 50
81530	5-22-16 Charles S. Demarest	1 00	81483	5-19-16 A. L. Miller	76 90	81489	5-4-16 East River Mill & Lumber Co.	7 28
81531	5-3-16 Putnam A. Bates	120 05	81460	5-25-16 Bloodgood Nurseries	10 00	81490	3-31-16 General Acoustic Co.....	987 90
81532	5-3-16 Putnam A. Bates	8 85	81461	5-15-16 Stump & Walter Co.....	16 65	81491	5-16-16 William Hunrath	1 08
81533	5-3-16 Putnam A. Bates	10 40	81462	5-19-16 General Carbonic Co.....	100 00	81492	5-5-16 Geo. Damon & Sons.....	5 46
Miscellaneous.			81463	5-24-16 Standard Oil Co. of N. Y.	78 12	81493	5-17-16 B. Altman & Co.....	25 15
81561	Federal Reserve Bank of New York	1,000,000 00	Department of Parks, Boroughs of Manhattan and Richmond.			81494	4-29-16 Abraham & Straus	93
81562	Wm. A. Prendergast as Comptroller and Milo R. Maltbie as Chamberlain.....	500,000 00	81569	44157 Francis Gradwohl Eng. Co.	\$3,240 00	81495	5-13-16 Duparquet, Huot & Moneuse Co.	6 10
81563	Wm. A. Prendergast as Comptroller and Milo R. Maltbie as Chamberlain.....	5,010 26	Police Department.			81496	5-5-16 Gimbel Bros.	32 60
81564	Federal Reserve Bank of New York	7,624 66	81487	5-15-16 Fred'k M. Stelle, as trustee of Farmer Zehr Engraving Co.	\$127 20	81497	5-1-16 J. B. Greenhut Co.....	269 72
81559	Wm. A. Prendergast as Comptroller; M. R. Maltbie, Chamberlain	500,000 00	81281	The Society of the New York Hospital	364 25	81498	4-21-16 The Hospital Supply Co....	42 50
81560	Wm. A. Prendergast as Comptroller; M. R. Maltbie, Chamberlain	5,010 25	President of the Borough of Manhattan.			81234	4-19-16 General Oil Co., Inc.....	10 92
81519	Antonio Merlino	6 48	81510	5-17-16 Francis M. A. Leach.....	\$22 13	81235	5-1-16 Harrolds Motor Car Co....	9 75
81520	Frank N. Applegate	16 40	81511	Holtz & Freystedt Rest. & Wine Co.	18 00	81236	3-25-16 F. S. Banks Co.....	17 38
81521	Geo. F. Bolen	50 00	81512	4- -16 Holtz & Freystedt Rest. & Wine Co.	18 00	81237	4-27-16 Columbia Paper Co.....	3 15
81522	Louis Granat	7 20	81513	4- -16 R. M. Haan & Co.....	17 00	81238	4-25-16 Dennison Mfg. Co.....	15 00
81523	Philip M. Thorne et al.....	500 00	81514	5-23-16 Wm. J. Fowler et al.....	1,037 88	81239	3-31-16 Welsbach Gas Lamp Co....	200 55
81524	Isidor Wasservogel et al.....	505 00	81515	5-23-16 Louis Karmoil et al.....	95 33	81240	5-5-16 The Frank Richard & Gard- ner Co.	2 00
81525	Wm. Necker, Inc.....	50 00	81516	5-32-16 Frank B. Lasette et al.....	843 56	81241	1-28-16 The Richmond County Ad- vance Pub. Co.	5 75
81526	John H. Timmerman.....	1,443 50	Department of Street Cleaning.			81242	4-27-16 Geo. H. Morrill Co.....	40 00
81527	Samuel Goldstein	510 50	Tenements.			81243	5-9-16 Bloomingdale Bros.....	774 70
81528	Daniel J. Sheridan	39 00	Old Law	35,636	4,866	81244	5-2-16 The Manhattan Supply Co.	925 82
81279	Anthony McQuade	142 66	New Law	5,267	5,319	81245	5-5-16 Jas. S. Barron & Co.....	192 78

TENEMENT HOUSE DEPARTMENT.

REPORT FOR THE QUARTER ENDED MARCH 31, 1916.

This report shows that there has been a decrease of twenty per cent in the number of tenements planned, as compared with the corresponding quarter of 1915. During the same period there has been an increase of twenty per cent in the number of tenements completed. The total decrease of tenements planned is made up as follows: Manhattan, a decrease of 10 per cent; Bronx, a decrease of 44 per cent; Brooklyn, a decrease of 31 per cent; Richmond, a decrease of 50 per cent.

The Borough of Queens shows an increase of 152 per cent in the number of tenements planned, doubtless reflecting the approaching opening of new transit facilities.

Since March 31, 1915, three hundred and sixty-eight old law tenements have either been demolished or converted to other uses. In the same period 1,398 new law tenements have been erected, making a net increase of 1,030 recorded tenements in the City. In the same period of time there has been added 22,387 apartments, enough to provide living accommodations for about 90,000 people.

The cost of apartments planned during the first quarter of 1916, exclusive of the value of sites, was \$14,822,000.

Nine thousand six hundred and eight complaints of all kinds were received and acted upon.

	The Manhattan.	Bronx.	Brooklyn.	Queens.	Rich- mond.	New York City.
Tenements.						
Old Law	35,636	4,866	35,119	1,884	381	77,886
New Law	5,267	5,319	11,988	3,572	24	26,170
Total	40,903	10,185	47,107	5,456	405	104,056
Same Quarter of 1915.						
Old Law	35,817	4,851	35,280	1,911	395	78,254
New Law	5,122	4,969	11,338	3,319	24	24,772
Total	40,939	9,820	46,618	5,230	419	103,026
Apartments in Tenements.						
Old Law	392,370	32,864	165,165	8,138	1,491	600,028
New Law	143,510	96,299	101,633	18,852	155	360,449
Total	535,880	129,163	266,798	26,990	1,646	960,477
Same Quarter of 1915.						
Old Law	393,603	32,869	165,790	8,234	1,532	602,028
New Law	138,658	88,268	92,264	16,717	155	336,062
Total	532,261	121,137	258,054	24,951	1,687	938,090

	Manhattan.	The Bronx.	Brooklyn.	Queens.	Rich- mond.	New York City.
Tenements Demolished.						
Old Law	8	4	22	..	..	34
New Law .....	..	..	..	..	..	..
Total	8	4	22	..	..	34
<i>Same Quarter of 1915.</i>						
Old Law	7	3	1	1	..	12
New Law .....	..	..	..	..	..	..
Total	7	3	1	1	..	12
New Tenement Plans Filed.						
Plans	31	55	111	55	1	253
Tenements	45	87	176	91	1	400
Apartments	1,466	2,127	2,721	782	3	7,099
Rooms	5,899	8,297	10,474	3,476	17	28,163
Estimated cost.....	\$4,943,500	\$4,250,000	\$4,379,500	\$1,244,000	\$5,000	\$14,822,000
<i>Same Quarter of 1915.</i>						
Plans	39	85	159	29	2	314
Tenements	50	155	255	36	2	498
Apartments	1,671	3,417	3,559	444	6	9,097
Rooms	7,200	13,600	13,773	1,761	29	36,363
Estimated cost.....	\$5,480,500	\$6,563,250	\$5,380,200	\$688,500	\$12,500	\$18,124,950
New Law Tenements Erected.						
Buildings	28	64	108	52	..	252
Apartments	872	1,509	1,411	421	..	4,213
Rooms	3,406	5,742	5,418	1,840	..	16,405
Estimated cost.....	\$2,391,000	\$3,035,000	\$2,572,000	\$576,000	..	\$8,574,000
<i>Same Quarter of 1915.</i>						
Buildings	24	37	91	59	..	211
Apartments	741	893	1,411	398	..	3,443
Rooms	2,751	3,437	5,672	1,884	..	13,744
Estimated cost.....	\$1,460,000	\$1,690,000	\$2,155,200	\$634,500	..	\$5,939,700
Plans Filed for the Alteration of Tenements.						
Alteration plans.....	276	50	227	7	5	565
Tenements	300	65	232	8	5	610
Estimated cost.....	\$202,136	\$58,485	\$96,865	\$1,580	\$840	\$369,906
<i>Same Quarter of 1915.</i>						
Alteration plans.....	348	65	253	20	6	692
Tenements	373	66	267	20	7	733
Estimated cost.....	\$296,562	\$41,515	\$105,585	\$8,520	\$1,375	\$453,557
Slips Filed for the Repair of Tenements.						
Repair slips	268	27	50	..	1	346
Tenements	270	29	53	..	1	353
Estimated cost	\$44,165	\$3,125	\$3,217	..	\$20	\$50,527
<i>Same Quarter of 1915.</i>						
Repair slips	135	21	72	20	2	250
Tenements	136	25	74	21	2	258
Estimated cost	\$14,056	\$2,240	\$8,727.50	\$455	\$50	\$25,528.50
Applications for Conversion of Tenements to Non-Tenements.						
Applications	24	4	76	8	4	116
Tenements	24	4	78	8	4	118
Estimated cost	\$17,660	\$205	\$7,826	\$2,055	\$3,495	\$31,241
Tenements for Which Ownership Was Registered.						
Tenements registered...	2,189	707	1,913	238	18	5,065
<i>Same Quarter of 1915.</i>						
Tenements registered...	2,274	654	1,821	289	15	5,053
Complaints Concerning Tenements.						
Pending Jan. 1, 1916 ..	634	60	325	14	20	1,053
Received—						
Signed	2,098	77	382	14	8	2,579
Anonymous	4,233	234	911	66	6	5,450
From other depart- ments	279	293	960	47	..	1,579
Total	6,610	604	2,253	127	14	9,608
Violations issued—						
Old building	1,683	176	739	40	2	2,640
Alteration	56	..	..	..	3	59
Prostitution .....	..	..	26	..	..	26
Previously acted on ..	408	13	166	7	1	595
Cause removed	1,706	195	339	15	2	2,257
Referred to other de- partments	421	22	68	5	5	521
No basis	660	90	320	9	3	1,082
No action necessary ..	1,143	51	323	36	4	1,557
Total	6,077	547	1,981	112	20	8,737
Pending Mar. 31, 1916 ..	1,167	117	597	29	14	1,924
<i>Same Quarter of 1915.</i>						
Pending Jan. 1, 1915 ..	758	54	204	23	8	1,047
Received	6,610	554	2,549	204	20	9,937
Acted on	6,738	548	2,450	213	16	9,965
Pending March 31, 1915	630	60	303	14	12	1,019
Applications Received for Written Searches of Tenement Violations.						
Applications	2,111	546	2,065	75	6	4,803
<i>Same Quarter of 1915.</i>						
Applications	1,526	447	1,896	110	11	3,990
New Building Violations Filed on Tenements in Process of Erection.						
Pending Jan. 1, 1916 ..	49	106	185	54	1	395
Filed	133	249	194	24	..	600
Dismissed	96	217	141	38	..	492
Cancelled	25	17	47	11	..	100
Pending March 31, 1916.	61	121	191	29	1	403
<i>Same Quarter of 1915.</i>						
Pending Jan. 1, 1915 ..	45	81	217	71	..	414
Filed	93	129	160	30	..	412
Dismissed	97	127	60	12	..	296
Cancelled	18	3	88	13	..	122
Pending March 31, 1915.	23	80	229	76	..	408
Tenements with Violations.						
Pending Jan. 1, 1916 ..	18,855	2,596	23,908	1,926	316	47,601
Filed	6,893	1,287	7,559	542	7	16,288
Dismissed	3,681	915	2,285	144	30	7,055
Pending March 31, 1916.	22,067	2,968	29,182	2,324	293	56,834
<i>Same Quarter of 1915.</i>						
Pending Jan. 1, 1915 ..	15,976	1,732	18,567	2,506	391	39,172
Filed	4,348	391	4,767	143	79	9,728
Dismissed	1,801	329	1,852	155	44	4,181
Pending March 31, 1915.	18,523	1,794	21,482	2,494	426	44,719
Old Law Tenements With Structural Violations.						
Tenements with struc- tural violations pending Jan. 1, 1916	2,237	190	8,799	537	144	11,907
New Cases	21	2	79	6	2	110
Defects remedied	151	14	161	13	18	357
Removed from tene- ment class	6	..	40	2	1	49

	Manhattan.	The Bronx.	Brooklyn.	Queens.	Rich- mond.	New York City.
Pending March 31, 1916	2,101	178	8,677	528	127	11,611
<i>Same Quarter of 1915.</i>						
Tenements with struc- tural violations pending Jan. 1, 1915	3,300	261	9,746	641	231	14,179
New cases	10	1	77	5	6	99
Defects remedied	304	25	426	46	31	832
Removed from tene- ment class	3	..	40	12	..	55
Pending March 31, 1915	3,003	237	9,357	588	206	13,391
Rooms Not Legally Lighted and Ventilated, and School Sinks.						
Rooms not legally lighted and venti- lated	1,816	51	379	664	45	2,915
*School sinks .....	..	..	20	95	4	119
<i>Same Quarter of 1915.</i>						
Rooms not legally lighted and venti- lated	5,037	82	2,989	921	104	9,133
*School sinks	15	..	24	102	7	148
Violations of Law in Completed and Occupied Tenements.						
Fire Protection—						
Pending, Jan. 1, 1916.	7,789	289	8,445	827	185	17,535
Issued	1,620	218	635	38	7	2,518
Dismissed or cancelled	2,541	153	1,618	153	33	4,498
Pending, March 31, 1916	6,868	354	7,462	712	159	15,555
Lighting and Ventilation—						
Pending, Jan. 1, 1916.	1,596	146	5,739	246	158	7,885
Issued	1,155	121	24,541	1,151	2	26,970
Dismissed or cancelled	1,466	131	1,658	95	25	3,375
Pending, March 31, 1916	1,285	136	28,622	1,302	135	31,480
Paving and Grading—						
Pending, Jan. 1, 1916.	4,728	374	1,263	34	7	6,406
Issued	58	11	17	..	..	86
Dismissed or cancelled	422	43	110	2	1	578
Pending, March 31, 1916	4,364	342	1,170	32	6	5,914
Plumbing and Drainage—						
Pending, Jan. 1, 1916.	11,227	757	12,939	365	133	25,421
Issued	1,477	165	458	10	6	2,116
Dismissed or cancelled	2,502	229	2,185	37	27	4,980
Pending, March 31, 1916	10,202	693	11,212	338	112	22,557
Prostitution—						
Pending, Jan. 1, 1916.	722	..	51	..	..	773
Issued	6	..	26	..	..	32
Dismissed or cancelled	26	..	..	..	..	26
Pending, March 31, 1916	702	..	77	..	..	779
Toilet Accommodations—						
Pending, Jan. 1, 1916.	5,258	539	6,905	272	42	13,016
Issued	637	79	235	13	11	975
Dismissed or cancelled	1,445	140	1,318	32	13	2,948
Pending, March 31, 1916	4,450	478	5,822	253	40	11,043
Shafts and Courts—						
Pending, Jan. 1, 1916.	122	3	187	56	1	369
Issued	9	..	6	..	..	15
Dismissed or cancelled	21	1	28	12	..	62
Pending, March 31, 1916	110	2	165	44	1	322
Unlawful Use of Premises—						
Pending, Jan. 1, 1916.	837	12	291	23	6	1,169
Issued	69	8	22	..	..	99
Dismissed or cancelled	188	9	50	..	..	247
Pending, March 31, 1916	718	11	263	23	6	1,021
Other Alterations and Repairs—						
Pending Jan. 1, 1916.	20,067	2,565	19,505	1,347	243	43,727
Issued	2,969	1,491	3,131	49	51	7,691
Dismissed or cancelled	4,484	969	2,791	93	89	8,426
Pending March 31, 1916	18,552	3,087	19,845	1,303	205	42,992
Miscellaneous Cleaning—						
Pending Jan. 1, 1916.	14,647	640	6,026	247	45	21,605
Issued	861	105	142	10	2	1,120
Dismissed or cancelled	2,668	130	1,030	33	20	3,881
Pending March 31, 1916	12,840	615	5,138	224	27	18,844
Others—						
Pending Jan. 1, 1916.	3,248	242	315	27	41	3,873
Issued	10,824	851	19	..	1	11,695
Dismissed or cancelled	3,051	295	60	5	4	3,415
Pending March 31, 1916	11,021	798	274	22	38	12,153
Total—						
Pending Jan. 1, 1916.	70,241	5,567	61,666	3,444	861	141,779
Issued	19,685	3,049	29,232	1,271	80	53,317
Dismissed or cancelled	18,814	2,100	10,848	462	212	32,436
Pending March 31, 1916	71,112	6,516	80,050	4,253	729	162,660
<i>Same Quarter of 1915.</i>						
Total—						
Pending Jan. 1, 1915.	59,184	3,122	44,189	3,948	1,346	111,789
Issued	38,094	1,239	26,599	711	597	67,240
Dismissed or cancelled	16,971	898	11,239	524	358	29,990
Pending March 31, 1915	80,307	3,463	59,549	4,135	1,585	149,039
Nature of Work Accomplished.						
Ceilings, walls, shaft and courts, cleaned or repaired	11,661	310	3,057	81	42	15,151
Chimneys, drains, lead- ers and gutters cleaned, repaired or provided	1,120	63	637	6	4	1,830
Disinfections made	3	2	24	1	..	30
Fire Protection—						
Buildings provided with fire escapes...	23	9	62	5	5	104
Other fire-escape im- provements effected.	8,154	267	2,565	74	40	11,100
Fireproofing	414	13	105	2	7	541
Springs provided for fireproof doors	13,896	..	..	..	..	13,896
Janitors provided	1					

	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	New York City.
Paving and grading....	671	61	137	1	2	872
Plumbing fixtures and pipes provided, removed or repaired....	3,580	266	2,728	36	15	6,625
Unlawful use of premises discontinued....	617	52	87	8	..	764
Water supply improvements made.....	228	14	262	2	..	506
Water closets, etc., cleaned or repaired....	6,668	271	3,343	55	17	10,354

	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	New York City.
Other cleaning & repairs.	10,867	2,219	4,101	90	39	17,316
Total	60,534	3,781	20,381	541	188	85,425
Total	Same	Quarter of 1915.	2,252	28,687	1,177	89,069

* Note—There remains no school sink on tenement property in The City of New York except where the house is vacated, where the school sink structure has been removed but not all the requirements of the law have been met, or where the fixture cannot be removed at present owing to lack of proper sewer connection.

JOHN J. MURPHY, Commissioner.



OFFICIAL DIRECTORY.

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

CITY OFFICES.

MAYOR'S OFFICE.

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

COMMISSIONERS OF ACCOUNTS.

Municipal Building, Telephone, 4315 Worth.

BOARD OF ALDERMEN.

Clerk's Office, Municipal Building, 2nd floor. Telephone, 4430 Worth.

President of the Board of Aldermen.

City Hall. Telephone, 6770 Cortlandt.

BOARD OF AMBULANCE SERVICE.

Municipal Building, 10th floor. Ambulance Calls, 3100 Spring. Administration Offices, 748 Worth.

ARMORY BOARD.

Hall of Records. Telephone, 3900 Worth.

ART COMMISSION.

City Hall. Telephone, 1197 Cortlandt.

BOARD OF ASSESSORS.

Municipal Building, 8th floor. Telephone, 29 Worth.

St. George B. Tucker, Secretary.

26th st. and 1st ave. Telephone, 4400 Madison Square.

CENTRAL PURCHASE COMMITTEE.

Municipal Building, 12th floor. Telephone, 4315 Worth.

BUREAU OF THE CHAMBERLAIN.

Municipal Building, 8th floor. Telephone, 4270 Worth.

BOARD OF CHILD WELFARE.

City Hall. Telephone, 7541 Cortlandt.

CITY CLERK AND CLERK OF THE BOARD OF ALDERMEN.

Municipal Building, 2nd floor. Telephone, 4430 Worth.

BOARD OF CITY RECORD.

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

DEPARTMENT OF CORRECTION.

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

DEPARTMENT OF DOCKS AND FERRIES.

Pier 4, N. River. Telephone, 300 Rector.

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.

BOARD OF ELECTIONS.

General office and office of the Borough of Manhattan, Municipal Building, 18th floor. Telephone, 1307 Worth.

Other Borough Offices.

The Bronx.
368 E. 148th st. Telephone, 336 Melrose.

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

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

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

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

BOARD OF ESTIMATE AND APPORTIONMENT.

Municipal Building, 13th floor. Telephone, 4560 Worth.

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.

BOARD OF EXAMINERS.

Municipal Building, 20th floor. 9 a. m. to 4 p. m. Saturday, to 12 noon. Telephone, 1800 Worth.

DEPARTMENT OF FINANCE.

Board meets every Tuesday at 2 p. m.

Queens—5 Court Square, L. I. City. Telephone, 3386 Hunters Point.

Richmond—Borough Hall, St. George. Telephone, 100 Tompkinsville.

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, L. I. City. Telephone, 1553 Hunters Point.

Richmond—Borough Hall, St. George. Telephone, 1000 Tompkinsville.

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

Brooklyn, 365 Jay st. Telephone, 7600 Main.

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

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

Bureau of Sewers, 21st floor, Municipal Building.

Bureau of Buildings, 20th floor, Municipal Building.

Bureau of Highways, 21st floor, Municipal Building.

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

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

Bureau of Sewers, 21st floor, Municipal Building.

Bureau of Buildings, 20th floor, Municipal Building.

BOROUGH OF BROOKLYN.
President's office, 2d floor, Borough Hall.

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

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

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

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

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

Bureau of Buildings, 4th floor, Borough Hall.

Topographical Bureau, 209 Montague st.

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

Telephone, 3960 Main.

BOROUGH OF MANHATTAN.
President's office, 20th floor, Municipal Building.

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

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

Bureau of Highways, 21st floor, Municipal Building.

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

Bureau of Sewers, 21st floor, Municipal Building.

Bureau of Buildings, 20th floor, Municipal Building.

Telephone, 4227 Worth.

BOROUGH OF QUEENS.
President's Office, Borough Hall, L. I. City. Telephone, 5400 Hunters Point.

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

BOROUGH OF RICHMOND.
President's office, New Brighton. Telephone, 1000 Tompkinsville.

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

Brooklyn, 8 a. m. to midnight, every day. Telephone, 4004 Main.

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

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

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

NEW YORK COUNTY.

COUNTY CLERK.
County Court House. Telephone, 5388 Cortlandt.

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

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

COMMISSIONER OF JUDGES.
280 Broadway. Telephone, 241 Worth.

PUBLIC ADMINISTRATOR.
119 Nassau st. Telephone, 6376 Cortlandt.

COMMISSIONER OF RECORDS.
Hall of Records. Telephone, 3900 Worth.

REGISTER.
Hall of Records. Telephone, 3900 Worth.

SHERIFF.
51 Chambers st. Telephone, 4300 Worth.

NEW YORK COUNTY Jail, 70 Ludlow st.

SUBROGATE.
Hall of Records. Telephone, 3900 Worth.

KINGS COUNTY.

COUNTY CLERK.
Hall of Records. Telephone, 4930 Main.

COUNTY COURT.
County Court House. Court opens at 10 a. m. daily and sits until business is completed. Part I, Room 23; Part II, Room 10; Part III, Room 14; Part IV, Room 1, Court House. Clerk's office, Room 17, 18, 19 and 22; open daily from 9 a. m. to 5 p. m.; Saturday to 12 noon. Telephone, 4154 Main.

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

COMMISSIONER OF JUDGES.
381 Fulton st. Telephone, 330-331 Main.

PUBLIC ADMINISTRATOR.
44 Court st. Telephone, 2840 Main.

COMMISSIONER OF RECORDS.
Hall of Records. Telephone, 6988 Main.

REGISTER.
Hall of Records. Telephone, 2830 Main.

SHERIFF.
50 Court st. Telephone, 6845 Main.

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

BRONX COUNTY.

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

Criminal Branch, 1918 Arthur ave.

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

DISTRICT ATTORNEY.
Tremont and Arthur aves. Telephone, 1100 Tremont.

COMMISSIONER OF JUDGES.
1932 Arthur ave. Telephone, 3700 Tremont.

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

REGISTER.
1932 Arthur ave. Telephone, 6694 Tremont.

SHERIFF.
1932 Arthur ave. Telephone, 6600 Tremont.

SUBROGATE.
Bergen Building Annex, 1918 Arthur ave.

QUEENS COUNTY.

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

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

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

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

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

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

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

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

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

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

RICHMOND COUNTY.

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

COUNTY JUDGE AND SUBROGATE.
Trial Terms, with Grand and Trial Jury, second Monday of March, first Monday of October. Trial Terms, with Trial Jury only, first Monday of May, first Monday of December.

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

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

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

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

COMMISSIONER OF JUDGES.
Village Hall, Stapleton. Telephone, 81 Tompkinsville.

PUBLIC ADMINISTRATOR.
Port Richmond. Telephone, 704 West Brighton.

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

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' COURTS.
Boroughs of Manhattan and Bronx.

William McAdoo, Chief City Magistrate. 300 Mulberry st. Telephone, 6213 Spring.

Municipal Term—Room 500, Municipal Building, Manhattan.

Borough of The Bronx.
First District—Town Hall, 1400 Williamsbridge rd., Westchester. Telephone, 457 Westchester.
Second District—Washington ave. and 162d st. Telephone, 3042 Melrose.

Borough of Brooklyn.
First District—State and Court sta. Telephone, 7091 Main.
Second District—495 Gates ave. Telephone, 504 Bedford.

Third District—6 Lee ave. Telephone, 556 Williamsburg.
Fourth District—14 Howard ave. Telephone, 4323 Bushwick.

Fifth District—5220 Third ave. Telephone, 3907 Sunset.
Sixth District—236 Duffield st. Telephone, 6166 Main.

Seventh District—31 Pennsylvania ave. Telephone, 904 East New York.

Borough of Queens.
First District—115 Fifth st., L. I. 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. Telephone, 503 Tompkinsville.

Second District—Village Hall, Stapleton. 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, 4280 Main.

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, Bergen Building, Tremont and Arthur avcs., Bronx. Held on Thursday of each week. Telephone, 6056 Tremont.

CHILDREN'S COURT.
Adolphus Ragan, Chief Clerk, 137 E. 22nd st. Telephone, 3611 Gramercy.

Bernard J. Fagan, Acting Chief Probation Officer, 137 E. 22nd st. Telephone, 3611 Gramercy.

Parts I and II, (Manhattan), 137 E. 22nd st. Telephone, 3611 Gramercy. Dennis A. Lambert, Clerk.

Part III, (Brooklyn), 102 Court st. Telephone, 8611 Main. Wm. C. McKee, Clerk.

Part IV, (Bronx), 355 E. 137th st. Court held on Monday, Thursday and Saturday of each week. Telephone, 9092 Melrose. Michael Murray, Clerk.

Part V, (Queens), 19 Flushing ave., Jamaica. Court held on Tuesday and Friday of each week. Telephone, 2624 Jamaica. Sydney Ollendorf, Clerk.

Part VI, (Richmond), 14 Richmond Terrace, St. George. Court held on Wednesday of each week. Telephone, 2190 Tompkinsville. Wm. 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.

Second Judicial Department.
Borough Hall, Brooklyn. Court meets from 2 p. m. to 5 p. m., excepting that on Fridays Court opens at 10 a. m. Clerk's office open 9 a. m. Telephone, 1392 Main.

SUPREME COURT—APPELLATE TERM.
203 Fulton st., Brooklyn. Court meets 10 a. m. Clerk's office opens 9 a. m. Telephone, 7452 Main.

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 noon. Telephone, 6064 Franklin.

SUPREME COURT—FIRST DEPARTMENT.
Court House. Court opens from 10.15 a. m. to 4 p. m. Telephone, 4580 Cortlandt.

SUPREME COURT—SECOND DEPARTMENT.
Kings County.
Joralemon and Fulton sts. 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. Telephone, 5460 Main.

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 the first two weeks in September, in Part I. Trial Term, Part 2, February, April, June, last two weeks in September, and November. Special Term for Trials, January, April, June and October.

Clerk's Office open 9 a. m. to 5 p. m. Saturdays until 12 noon from October to June. July, August and September until 2 p. m. Telephone, 3896 Hunters Point.

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.

STATE INDUSTRIAL COMMISSION—DEPARTMENT OF LABOR.

Public Notices.

Whereas, the Ford Motor Company, of L. I. City, filed a petition dated March 29, 1916, for a variation from the provisions of Section 79-a-2 of the Labor Law, re openings in fire wall, in the proposed building 1537-57 Bedford ave., Brooklyn, and

Whereas, a public hearing has been held on the 27th day of April, 1916, at 230 Fifth ave., N. Y. City, and opportunity for all interested persons to be heard thereon having been given, and

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the offices of the Commission, from which examination it appears that the said proposed building will be of fireproof construction, four stories high, and approximately 77' 0" x 158' 0" x 108' 0" (irregular in shape) and will be sprinklered. The floor area is approximately 13,000 square feet; building will be occupied by owners as automobile service station in which autos will be repaired; occupancy is stated as not more than 150 persons employed above the ground floor. Exits are shown to be three interior fireproof enclosed stairways and two horizontal exits through fire wall on each floor. The openings in fire wall are 8' 0" wide and 7' 6" high; and there appearing from such examination and public hearing that there are practical difficulties and unnecessary hardship in carrying out the strict provisions of the law or the rules and regulations of the Industrial Code on the said proposed building, and that in the granting of a variation on said proposed building the spirit of the law and rules and regulations will be observed and public safety secured;

Be it resolved by the State Industrial Commission that a variation be and it hereby is granted to the Ford Motor Co., L. I. City, on the proposed building, 1537-57 Bedford ave., Brooklyn, upon the following terms and conditions:

That openings in fire wall on each floor,

8' 0" wide and 7' 6" high, be permitted provided they otherwise conform to the provisions of Section 79-1-4 of the Labor Law.

Be it further resolved that the said variation is granted only during the period that the conditions above set forth are maintained.

STATE OF NEW YORK, OFFICE OF THE STATE INDUSTRIAL COMMISSION, ss.:
I, HENRY D. SAYER, Secretary of the State Industrial Commission of the State of New York, DO HEREBY CERTIFY that I have compared the foregoing copy of a resolution with the original thereof, duly adopted by the State Industrial Commission on the 29th day of May, 1916, and duly filed in the office of said Commission, and that the same is a true and correct copy and transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the State Industrial Commission this 1st day of June, 1916.

Seal.
H. D. SAYER, Secretary.

Whereas, George A. Boehm, 7 W. 42nd st., N. Y. City, has filed a petition dated May 15, 1916, for variation from provisions of Section 79-a-2 of the Labor Law re required exit and 79-1 re fireproof windows, on the proposed building 400 Fifth ave., N. Y. City, and

Whereas, a public hearing has been held on the 18th day of May, 1916, at 230 Fifth ave., N. Y. City, and opportunity for all interested persons to be heard thereon having been given, and

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the office of the Commission, from which examination it appears that the said proposed building will be of fireproof construction, six stories high, and approximately 27' 7" x 108' 0", and sprinklered, will be a tenant factory building. Exits shown, are one interior fireproof enclosed stairway and one exterior screened stairway; and there appearing from such examination and public hearing that there are practical difficulties and unnecessary hardships in carrying out the strict provisions of the law or the rules and regulations of the Industrial Code on the said proposed building, and that in the granting of a variation on said proposed building the spirit of the law and rules and regulations will be observed and public safety secured;

Be it resolved by the State Industrial Commission that a variation be, and it hereby is granted to George A. Boehm, 7 W. 42nd st., N. Y. City, on the proposed building, 400 Fifth ave., N. Y. City, upon the following terms and conditions:

That an exterior screened stairway not less than 3' 0" wide and conforming to the provisions of Section 79-1-10 of the Labor Law be permitted as one of the required means of exit in this building, and that windows in the front of this building, of metal frames and sash and panes of 1/4" plate glass of size not to exceed 3' 6" x 6' 0" in the lower portion of the sash, and 3' 6" x 2' 0" in the upper portion be permitted.

Be it further resolved that the said variation is granted only during the period that the conditions above set forth are maintained.

STATE OF NEW YORK, OFFICE OF THE STATE INDUSTRIAL COMMISSION, ss.:
I, HENRY D. SAYER, Secretary of the State Industrial Commission of the State of New York, DO HEREBY CERTIFY that I have compared the foregoing copy of a resolution with the original thereof, duly adopted by the State Industrial Commission on the 29th day of May, 1916, and duly filed in the office of said Commission, and that the same is a true and correct copy and transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the State Industrial Commission this 1st day of June, 1916.

Seal.
H. D. SAYER, Secretary.

Whereas, John M. Baker, 9 Jackson ave., L. I. City, filed a petition dated March 23, 1916, for a variation from the requirements of Section 79-a-2 of the Labor Law, in proposed building north side of Harris ave., 28' 7 3/4" west of Sherman st., L. I. City, and

Whereas, a public hearing has been held on the 25th day of April, 1916, at 230 Fifth ave., N. Y. City, and opportunity for all interested persons to be heard thereon having been given, and

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the offices of the Commission, from which examination it appears that the said proposed building will be of fireproof construction, two stories high and approximately 40' 0" x 60' 0", and sprinklered, will be occupied on first floor as a motion picture film laboratory, second floor to be rented for manufacturing purposes, subject to approval by the New York City Fire Department. Exits are shown to be one interior fireproof enclosed stairway and one exterior screened stairway; and there appearing from such examination and public hearing that there are practical difficulties and unnecessary hardships in carrying out the strict provisions of the law or the rules and regulations of the Industrial Code on the said proposed building and that in the granting of a variation on said proposed building the spirit of the law and rules and regulations will be observed and public safety secured;

Be it resolved by the State Industrial Commission that a variation be, and it hereby is granted to John M. Baker, 9 Jackson ave., L. I. City, on the proposed building north side of Harris ave., 28' 7 3/4" west of Sherman st., L. I. City, upon the following terms and conditions:

That an exterior screened stairway not less than 3' 8" wide and otherwise conforming to the provisions of Section 79-1-10 of the Labor Law be permitted as one of the required exits in this building.

Be it further resolved that the said variation is granted only during the period that the conditions above set forth are mentioned.

STATE OF NEW YORK, OFFICE OF THE STATE INDUSTRIAL COMMISSION, ss.:
I, HENRY D. SAYER, Secretary of the State Industrial Commission of the State of New York, DO HEREBY CERTIFY that I have compared the foregoing copy of a resolution with the original thereof, duly adopted by the State Industrial Commission on the 29th day of May, 1916, and duly filed in the office of said Commission, and that the same is a true and correct copy and transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the State Industrial Commission this 1st day of June, 1916.

Seal.
H. D. SAYER, Secretary.

Whereas, Warren & Wetmore, 16 E. 47th st., N. Y. City, have filed a petition dated April 18, 1916, and April 28, 1916, for a variation from provisions of Section 79-a-2 and 3 of the Labor Law, re required exits and enclosure of stairways, in the proposed building northwest corner Borden and Van Alst avcs., L. I. City, and

Whereas, a public hearing has been held on the 2nd day of May, 1916, at 230 Fifth ave., N. Y. City, and opportunity for all interested persons to be heard thereon having been given, and

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the offices of the Commission, from which examination and public hearing it appears that the said proposed building will be of fireproof construction, 7 stories high, irregular in shape, with an approximate floor area of 12,800 square feet, will be occupied by one tenant, wholesale druggists, with an occupancy of about 75 persons on each floor; exits are shown to be one interior and one exterior fireproof enclosed stairway, and two horizontal exits on the 1st, 2nd, 3rd and 4th floors to adjoining building, and two exterior screened stairways from 5th, 6th and 7th floors to roof of adjoining building, from which egress is had by means of interior stairway. There is also an unenclosed stairway from the 4th to the 6th floors. Building will be sprinklered; and there appearing from such examination and public hearing that there are practical difficulties and unnecessary hardship in carrying out the strict provisions of the law or the rules and regulations of the Industrial Code on the said proposed building, and that in the granting of a variation on said proposed building the spirit of the law and rules and regulations will be observed and public safety secured;

Be it resolved by the State Industrial Commission that a variation be and it hereby is granted to Warren & Wetmore, 16 E. 47th st., N. Y. City, on the proposed building northwest corner Borden and Van Alst avcs., L. I. City, upon the following terms and conditions:

That two exterior screened stairways as described above, not less than 3' 8" wide and otherwise conforming to Section 79-1-10 of the Labor Law, be permitted as required means of exit from the 5th, 6th and 7th floors of this building, and

That variation requested to permit unenclosed accommodation stairway from 4th to 6th floors be not allowed;

Be it further resolved that the said variation is granted only during the period that the conditions above set forth are maintained.

STATE OF NEW YORK, OFFICE OF THE STATE INDUSTRIAL COMMISSION, ss.:
I, HENRY D. SAYER, Secretary of the State Industrial Commission of the State of New York, DO HEREBY CERTIFY that I have compared the foregoing copy of a resolution with the original thereof, duly adopted by the State Industrial Commission on the 29th day of May, 1916, and duly filed in the office of said Commission, and that the same is a true and correct copy and transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the State Industrial Commission this 1st day of June, 1916.

Seal.
H. D. SAYER, Secretary.

Whereas, Frederick C. Zobel, 35 W. 39th st., N. Y. City, filed a petition dated April 1, 1916, for a variation from provisions of Sections 79-1-1 and 79-1-1 re fireproof windows, in proposed building 15 E. 29th st. and 102-8 Madison ave., N. Y. City, and

Whereas, a public hearing has been held on the 25th day of April, 1916, at 230 Fifth ave., N. Y. City, and opportunity for all interested persons to be heard thereon having been given, and

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the offices of the Commission, from which examination it appears that the said proposed building will be of fireproof construction, two stories high and approximately 40' 0" x 60' 0", and sprinklered, will be occupied on first floor as a motion picture film laboratory, second floor to be rented for manufacturing purposes, subject to approval by the New York City Fire Department. Exits are shown to be one interior fireproof enclosed stairway and one exterior screened stairway; and there appearing from such examination and public hearing that there are practical difficulties and unnecessary hardships in carrying out the strict provisions of the law or the rules and regulations of the Industrial Code on the said proposed building and that in the granting of a variation on said proposed building the spirit of the law and rules and regulations will be observed and public safety secured;

Be it resolved by the State Industrial Commission that a variation be, and it hereby is granted to John M. Baker, 9 Jackson ave., L. I. City, on the proposed building north side of Harris ave., 28' 7 3/4" west of Sherman st., L. I. City, upon the following terms and conditions:

That an exterior screened stairway not less than 3' 8" wide and otherwise conforming to the provisions of Section 79-1-10 of the Labor Law be permitted as one of the required exits in this building.

Be it further resolved that the said variation is granted only during the period that the conditions above set forth are mentioned.

STATE OF NEW YORK, OFFICE OF THE STATE INDUSTRIAL COMMISSION, ss.:
I, HENRY D. SAYER, Secretary of the State Industrial Commission of the State of New York, DO HEREBY CERTIFY that I have compared the foregoing copy of a resolution with the original thereof, duly adopted by the State Industrial Commission on the 29th day of May, 1916, and duly filed in the office of said Commission, and that the same is a true and correct copy and transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the State Industrial Commission this 1st day of June, 1916.

Seal.
H. D. SAYER, Secretary.

Whereas, Warren & Wetmore, 16 E. 47th st., N. Y. City, have filed a petition dated April 18, 1916, and April 28, 1916, for a variation from provisions of Section 79-a-2 and 3 of the Labor Law, re required exits and enclosure of stairways, in the proposed building northwest corner Borden and Van Alst avcs., L. I. City, and

Whereas, a public hearing has been held on the 2nd day of May, 1916, at 230 Fifth ave., N. Y. City, and opportunity for all interested persons to be heard thereon having been given, and

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the offices of the Commission, from which examination and public hearing it appears that the said proposed building will be of fireproof construction, 7 stories high, irregular in shape, with an approximate floor area of 12,800 square feet, will be occupied by one tenant, wholesale druggists, with an occupancy of about 75 persons on each floor; exits are shown to be one interior and one exterior fireproof enclosed stairway, and two horizontal exits on the 1st, 2nd, 3rd and 4th floors to adjoining building, and two exterior screened stairways from 5th, 6th and 7th floors to roof of adjoining building, from which egress is had by means of interior stairway. There is also an unenclosed stairway from the 4th to the 6th floors. Building will be sprinklered; and there appearing from such examination and public hearing that there are practical difficulties and unnecessary hardship in carrying out the strict provisions of the law or the rules and regulations of the Industrial Code on the said proposed building, and that in the granting of a variation on said proposed building the spirit of the law and rules and regulations will be observed and public safety secured;

Be it resolved by the State Industrial Commission that a variation be and it hereby is granted to Warren & Wetmore, 16 E. 47th st., N. Y. City, on the proposed building northwest corner Borden and Van Alst avcs., L. I. City, upon the following terms and conditions:

That two exterior screened stairways as described above, not less than 3' 8" wide and otherwise conforming to Section 79-1-10 of the Labor Law, be permitted as required means of exit from the 5th, 6th and 7th floors of this building, and

That variation requested to permit unenclosed accommodation stairway from 4th to 6th floors be not allowed;

Be it further resolved that the said variation is granted only during the period that the conditions above set forth are maintained.

STATE OF NEW YORK, OFFICE OF THE STATE INDUSTRIAL COMMISSION, ss.:
I, HENRY D. SAYER, Secretary of the State Industrial Commission of the State of New York, DO HEREBY CERTIFY that I have compared the foregoing copy of a resolution with the original thereof, duly adopted by the State Industrial Commission on the 29th day of May, 1916, and duly filed in the office of said Commission, and that the same is a true and correct copy and transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the State Industrial Commission this 1st day of June, 1916.

Seal.
H. D. SAYER, Secretary.

Whereas, Fountaine & Choate, 110 E. 23rd st., N. Y. City, filed a petition dated April 8, 1916, for a variation from the provisions of Section 79-a-2 of the Labor Law, re required exits, in proposed building Webster ave., 7th and 8th avcs., L. I. City, and

Whereas, a public hearing has been held on the 25th day of April, 1916, at 230 Fifth ave., N. Y. City, and opportunity for all interested persons to be heard thereon having been given, and

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the offices of the Commission, from which examination it appears that the said proposed building will be of non-fireproof construction, two stories high and approximately 201' 0" x 139' 0" x 125' 0" (irregular in shape), approximate floor area is 25,000 square feet, will be occupied as a carpet and rug cleaning establishment, with an occu-

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the offices of the Commission, from which examination it appears that the said proposed building will be of non-fireproof construction, two stories high and approximately 201' 0" x 139' 0" x 125' 0" (irregular in shape), approximate floor area is 25,000 square feet, will be occupied as a carpet and rug cleaning establishment, with an occu-

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the offices of the Commission, from which examination it appears that the said proposed building will be of non-fireproof construction, two stories high and approximately 201' 0" x 139' 0" x 125' 0" (irregular in shape), approximate floor area is 25,000 square feet, will be occupied as a carpet and rug cleaning establishment, with an occu-

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the offices of the Commission, from which examination it appears that the said proposed building will be of non-fireproof construction, two stories high and approximately 201' 0" x 139' 0" x 125' 0" (irregular in shape), approximate floor area is 25,000 square feet, will be occupied as a carpet and rug cleaning establishment, with an occu-

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the offices of the Commission, from which examination it appears that the said proposed building will be of non-fireproof construction, two stories high and approximately 201' 0" x 139' 0" x 125' 0" (irregular in shape), approximate floor area is 25,000 square feet, will be occupied as a carpet and rug cleaning establishment, with an occu-

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the offices of the Commission, from which examination it appears that the said proposed building will be of non-fireproof construction, two stories high and approximately 201' 0" x 139' 0" x 125' 0" (irregular in shape), approximate floor area is 25,000 square feet, will be occupied as a carpet and rug cleaning establishment, with an occu-

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the offices of the Commission, from which examination it appears that the said proposed building will be of non-fireproof construction, two stories high and approximately 201' 0" x 139' 0" x 125' 0" (irregular in shape), approximate floor area is 25,000 square feet, will be occupied as a carpet and rug cleaning establishment, with an occu-

appears that the said proposed building will be twelve stories high, approximately 95' 0" x 99' 0", with an approximate floor area of 8,000 square feet, fireproof construction, and will be sprinklered by a 100% sprinkler system, a dry sprinkler system to be installed on exterior of building on street fronts to provide water curtain. Building to be occupied as tenant factory, and used for the manufacture of goods principally in the needle industries; and there appearing from such inspection and public hearing that there are practical difficulties and unnecessary hardship in carrying out the strict provisions of the law or the rules and regulations of the Industrial Code on the said proposed building, and that in the granting of a variation on said proposed building the spirit of the law and rules and regulations will be observed and public safety secured;

Be it resolved by the State Industrial Commission that a variation be and it hereby is granted to Frederick C. Zobel, 35 W. 39th st., N. Y. City, on the proposed building 15 E. 29th st. and 102-8 Madison ave., N. Y. City, upon the following terms and conditions:

That plate glass in the front face of the building be permitted, of a size not to exceed 8' 0" x 8' 3" on the first and second floors, and not to exceed 3' 6" x 3' 9" on all other floors, and that outside water curtain as specified in a previous resolution granting a variation on this building be not now required.

Be it further resolved that the said variation is granted only during the period that the conditions above set forth are maintained.

STATE OF NEW YORK, OFFICE OF THE STATE INDUSTRIAL COMMISSION, ss.:
I, HENRY D. SAYER, Secretary of the State Industrial Commission of the State of New York, DO HEREBY CERTIFY that I have compared the foregoing copy of a resolution with the original thereof, duly adopted by the State Industrial Commission on the 29th day of May, 1916, and duly filed in the office of said Commission, and that the same is a true and correct copy and transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the State Industrial Commission this 1st day of June, 1916.

Seal.
H. D. SAYER, Secretary.

Whereas, Messrs. Shampman & Shampman, 772 Broadway, Brooklyn, have filed a petition dated April 19, 1916, for variation from the provisions of Section 79-a-2 of the Labor Law, re required exits, on the proposed building 618 Kosciuszko st., Brooklyn, and

Whereas, a public hearing has been held on the 2nd day of May, 1916, and opportunity for all interested persons to be heard thereon having been given, and

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the office of the Commission, from which examination it appears that the said proposed building will be of non-fireproof construction, two stories high and approximately 25' 0" x 65' 0", to be occupied by one tenant as a tailoring establishment; exits are shown to be one interior fireproof enclosed stairway and one exterior stairway; and there appearing from such examination and public hearing that there are practical difficulties and unnecessary hardship in carrying out the strict provisions of the law or the rules and regulations of the Industrial Code on the said proposed building and that in the granting of a variation on said proposed building the spirit of the law and rules and regulations will be observed and public safety secured;

Be it resolved by the State Industrial Commission that a variation be and it hereby is granted to Messrs. Shampman & Shampman, 772 Broadway, Brooklyn, on the proposed building 618 Kosciuszko st., Brooklyn, upon the following terms and conditions:

That an exterior, screened stairway not less than 3' 8" wide and otherwise conforming to the provisions of Section 79-1-10 of the Labor Law be permitted as one of the required exits in this building;

Be it further resolved that the said variation is granted only during the period that the conditions above set forth are maintained.

STATE OF NEW YORK, OFFICE OF THE STATE INDUSTRIAL COMMISSION, ss.:
I, HENRY D. SAYER, Secretary of the State Industrial Commission of the State of New York, DO HEREBY CERTIFY that I have compared the foregoing copy of a resolution with the original thereof, duly adopted by the State Industrial Commission on the 29th day of May, 1916, and duly filed in the office of said Commission, and that the same is a true and correct copy and transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the State Industrial Commission this 1st day of June, 1916.

Seal.
H. D. SAYER, Secretary.

Whereas, Henry H. Holly, 38 W. 32nd st., N. Y. City, has filed a petition, dated April 6, 1916, for variation from provisions of Section 79-b-4 re location of fire escape balconies, on premises 112 Greene st., N. Y. City, and

Whereas, a public hearing has been held on the 25th day of April, 1916, and opportunity for all interested persons to be heard thereon having been given, and

Whereas, an inspection of the said premises has been made and a report of such inspection is on file in the offices of the said Commission, from which inspection it appears that

pany of about 75 persons. Exits are four interior fireproof enclosed stairways and two exterior stairways 42" wide, and there appearing from such examination and public hearing that there are practical difficulties and unnecessary hardship in carrying out the strict provisions of the law or the rules and regulations of the Industrial Code on the said proposed building, and that in the granting of a variation on said proposed building the spirit of the law and rules and regulations will be observed and public safety secured.

Be it resolved by the State Industrial Commission that a variation be and it hereby is granted to Fountain & Choate, 110 E. 23rd st., N. Y. City, on the proposed building Webster ave., 7th and 8th aves., L. I. City, upon the following terms and conditions:

That two fireproof stairways not less than 42" wide and screened to a height of not less than 5' 0", with treads not less than 10" wide and risers not more than 7 1/4" high, be permitted as two of the required means of exit.

Be it further resolved that the said variation is granted only during the period that the conditions above set forth are maintained.

STATE OF NEW YORK, OFFICE OF THE STATE INDUSTRIAL COMMISSION, ss.:

I, HENRY D. SAYER, Secretary of the State Industrial Commission of the State of New York, DO HEREBY CERTIFY that I have compared the foregoing copy of a resolution with the original thereof, duly adopted by the State Industrial Commission on the 29th day of May, 1916, and duly filed in the office of said Commission, and that the same is a true and correct copy and transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the State Industrial Commission this 1st day of June, 1916.

H. D. SAYER, Secretary.

Whereas, Albert H. Atterbury, 30 Broad st., N. Y. City, has filed a petition dated May 1, 1916, for variation from provisions of Section 79-a-10 of the Labor Law, re location of openings to exterior stairway, on premises 29 W. 15th st., N. Y. City, and

Whereas, a public hearing has been held on the 10th day of May, 1916, and opportunity for all interested persons to be heard thereon having been given, and

Whereas, an inspection of the said premises has been made and a report of such inspection is on file in the offices of the Commission, from which inspection it appears that the building is of non-fireproof construction, ten stories high, and approximately 23' 0" x 90' 0", is a tenant factory building in which suits and cloaks are manufactured, and at the time of last inspection there were 114 persons employed above the ground floor. Exits are one interior fireproof enclosed stairway and one (proposed) exterior stairway; and there appearing from such inspection and public hearing that there are practical difficulties and unnecessary hardship in carrying out the strict provisions of the law or the rules and regulations of the Industrial Code on the said premises, and that in the granting of a variation on said premises the spirit of the law and rules and regulations will be observed and public safety secured;

Be it resolved by the State Industrial Commission that a variation be and it hereby is granted to Albert H. Atterbury, 30 Broad st., N. Y. City, upon the premises 29 W. 15th st., N. Y. City, upon the following terms and conditions:

That an exterior screened stairway at window sill level be permitted, provided it conforms to the provisions of Section 79-f-10 of the Labor Law, and, in addition, stationary steps are provided on the interior connecting the floor with the sill of the openings to balconies of each floor;

Be it further resolved that the said variation is granted only during the period that the conditions above set forth are maintained.

STATE OF NEW YORK, OFFICE OF THE STATE INDUSTRIAL COMMISSION, ss.:

I, HENRY D. SAYER, Secretary of the State Industrial Commission of the State of New York, DO HEREBY CERTIFY that I have compared the foregoing copy of a resolution with the original thereof, duly adopted by the State Industrial Commission on the 29th day of May, 1916, and duly filed in the office of said Commission, and that the same is a true and correct copy and transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the State Industrial Commission this 1st day of June, 1916.

H. D. SAYER, Secretary.

Whereas, P. Tillion & Son, 381 Fulton st., Brooklyn, has filed a petition dated April 4, 1916, for variation from provisions of Section 79-a-2 of the Labor Law, re required exits, in the proposed building 52-56 Van Dam st., Brooklyn, and

Whereas, a public hearing has been held on the 2nd day of May, 1916, at 230 Fifth ave., N. Y. City, and opportunity for all interested persons to be heard thereon having been given, and

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the offices of the Commission, from which examination it appears that the said proposed building will be of mill construction, two stories high, and approximately 65' 0" x 100' 0", with available floor area of approximately 5,500 square feet, and will be sprinklered, will be occupied by one tenant for the manufacture of rubber toys, with an occupancy of ten persons above the ground floor; exits are two interior fireproof enclosed stairways; and there appearing from such examination and public hearing that there are practical difficulties and unnecessary hardship in carrying out the strict provisions of the law or the rules and regulations of the Industrial Code on the said proposed building, and that in the granting of a variation on said proposed building the spirit of the law and rules and regulations will be observed and public safety secured;

Be it resolved by the State Industrial Commission that a variation be and it hereby is granted to P. Tillion & Son, 381 Fulton st., Brooklyn, on the proposed building 52-56 Van Dam st., Brooklyn, upon the following terms and conditions:

That two stairways as noted above be permitted as the required number of exits in this building.

STATE OF NEW YORK, OFFICE OF THE STATE INDUSTRIAL COMMISSION, ss.:

I, HENRY D. SAYER, Secretary of the State Industrial Commission of the State of New York, DO HEREBY CERTIFY that I have compared the foregoing copy of a resolution with the original thereof, duly adopted by the State Industrial Commission on the 29th day of May, 1916, and duly filed in the office of said Commission, and that the same is a true and correct copy and transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the State Industrial Commission this 1st day of June, 1916.

H. D. SAYER, Secretary.

Whereas, the Defiance Paper Co., of Niagara Falls, N. Y., has filed a petition dated March 29, 1916, for a variation from the provisions of Section 79-a-2 of the Labor Law, on the proposed building of the Defiance Paper Co., Walnut and 3d sts., Niagara Falls, N. Y., and

Whereas, a public hearing has been held on

the 27th day of April, 1916, at 230 Fifth ave., N. Y. City, and opportunity for all interested persons to be heard thereon having been given, and

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the offices of the Commission, from which examination it appears that the building will be of fireproof construction, three stories high and approximate floor area of 40,000 square feet, and sprinklered; will be occupied by owners for the printing of wall paper, which will be done on the 3rd floor, 2nd and 1st floors to be used for storage and shipping; seventy persons employed on top floor and ninety persons employed in the entire building; the process of printing wall paper requires large floor areas; and there appearing from such examination and public hearing that there are practical difficulties and unnecessary hardship in carrying out the strict provisions of the law or the rules and regulations of the Industrial Code on the said proposed building, the spirit of the law and rules and regulations will be observed and public safety secured;

Be it resolved by the State Industrial Commission that a variation be and it hereby is granted to the Defiance Paper Co., Niagara Falls, N. Y., on the proposed building of the Defiance Paper Co., Walnut and 3d sts., Niagara Falls, N. Y., upon the following terms and conditions:

That four interior fireproof enclosed stairways be permitted as the required number of exits for this building;

Be it further resolved by the State Industrial Commission that said variation is granted only during the period that the conditions above set forth are maintained.

STATE OF NEW YORK, OFFICE OF THE STATE INDUSTRIAL COMMISSION, ss.:

I, HENRY D. SAYER, Secretary of the State Industrial Commission of the State of New York, DO HEREBY CERTIFY that I have compared the foregoing copy of a resolution with the original thereof, duly adopted by the State Industrial Commission on the 29th day of May, 1916, and duly filed in the office of said Commission, and that the same is a true and correct copy and transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the State Industrial Commission this 1st day of June, 1916.

H. D. SAYER, Secretary.

Whereas, the Associated Manufacturers & Merchants, White Building, Buffalo, N. Y., filed a petition dated May 5, 1916, for variation from requirements of Section 79-a, re fireproof construction, on proposed building of Anchor Furniture Co., Jamestown, N. Y., and

Whereas, a public hearing has been held on the 9th day of May, 1916, at 230 Fifth ave., N. Y. City, and opportunity for all interested persons to be heard thereon having been given, and

Whereas, an examination of the plans of the said proposed building has been made and a report of such examination is on file in the office of the Commission, from which examination it appears that the said proposed building will be an extension to a four-story building of mill construction, and approximately 28' 0" x 60' 0", and four stories high, entire building will be sprinklered, and occupied by owners for the manufacture of hardwood furniture, with an occupancy of about fifty persons in the entire building; exits are two interior stairways and a sub-standard fire escape; when completed the extension, together with present building, will form one building without any intervening wall; and there appearing from such examination and public hearing that there are practical difficulties and unnecessary hardship in carrying out the strict provisions of the law or the rules and regulations of the Industrial Code on the said proposed building, and that in the granting of a variation on said proposed building the spirit of the law and rules and regulations will be observed and public safety secured;

Be it resolved by the State Industrial Commission that a variation be and it hereby is granted to the Associated Manufacturers and Merchants, White Building, Buffalo, N. Y., on the proposed building of the Anchor Furniture Co., Jamestown, N. Y., upon the following terms and conditions:

That variation requested, to permit construction of extension as coming within the provisions of Section 79-b-2 for buildings heretofore erected, be permitted;

Be it further resolved that said variation is granted only during the period that the conditions above set forth are maintained.

STATE OF NEW YORK, OFFICE OF THE STATE INDUSTRIAL COMMISSION, ss.:

I, HENRY D. SAYER, Secretary of the State Industrial Commission of the State of New York, DO HEREBY CERTIFY that I have compared the foregoing copy of a resolution with the original thereof, duly adopted by the State Industrial Commission on the 29th day of May, 1916, and duly filed in the office of said Commission, and that the same is a true and correct copy and transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the State Industrial Commission this 1st day of June, 1916.

H. D. SAYER, Secretary.

DEPARTMENT OF FINANCE.

Sales of Tax Liens.

Notice of Continuation of The Bronx Sale.

THE SALE OF THE LIENS FOR UNPAID SPECIAL FRANCHISE TAXES AND REAL ESTATE OF CORPORATION TAXES for the Borough of The Bronx, as to liens remaining unsold at the termination of sale of Aug. 3, Nov. 1, 1915, Feb. 7, March 20 and May 22, 1916, has been continued to

MONDAY, JUNE 26, 1916,

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

DANIEL MOYNAHAN, Collector of Assessments and Arrears. j3,5,12,19,26

Notice of Continuation of the Queens Tax Sale.

THE SALE OF THE LIENS FOR UNPAID taxes, assessments and water rents for the Borough of Queens, as to liens remaining unsold at the termination of the sale of Oct. 19, Dec. 7, 1915, Jan. 18, Feb. 29 and April 25 and May 23, 1916, has been continued to

TUESDAY, JULY 18, 1916,

at 10 a. m., pursuant to Section 1028 of the Greater New York Charter, and will be continued at that time on the 3d floor of the Municipal Building, Court House Square, L. I. City, Borough of Queens, City of New York.

DANIEL MOYNAHAN, Collector of Assessments and Arrears. j3,6,13,20,27,j3,11,18

Confirmation of Assessments.

NOTICES TO PROPERTY OWNERS.

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

PROVEMENTS IN THE BOROUGH OF BROOKLYN:

SECTION 22.
E. 127TH ST.—REGULATING, GRADING, CURBING AND FLAGGING Avenue U to Gravesend rd. Area of assessment affects blocks 7343, 7344, 7371, 7372, 7394, 7395, 7396, 7412 and 7413.

—The above assessment was confirmed by the Board of Assessors on May 31, 1916, and entered May 31, 1916, in the Record of Titles of Assessments kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before July 31, 1916, which is sixty days after the date of said entry of the assessment, interest will be collected thereon at the rate of seven per centum per annum, to be calculated from ten days after the date of entry to the date of payment, as provided by sections 159 and 1019 of the Greater New York Charter.

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

WILLIAM A. PRENDERGAST, Comptroller.

Dated, New York, May 31, 1916. j2,13

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

SECTION 15.
MATTHEWS AVENUE—REGULATING, GRADING, SETTING CURBSTONES, FLAGGING SIDEWALKS, LAYING CROSSWALKS, BUILDING APPROACHES AND ERECTING FENCES from Van Ness ave. to Bronxdale ave. Area of assessment affects blocks 4044, 4045, 4046, 4054, 4055, 4262, 4263, 4290, 4293, 4294, 4297, 4322 and 4323.

—That the above assessments were confirmed by the Board of Assessors May 31, 1916, and entered May 31, 1916, in the Record of Titles of Assessments kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before July 31, 1916, which is sixty days after the date of said entry of the assessments, interest will be collected thereon at the rate of seven per centum per annum, to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 1019 of the Greater New York Charter.

The above assessments are payable to the Collector of Assessments and Arrears at his office in the Bergen Building, 4th floor, southeast corner of Arthur and Tremont 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 noon.

WILLIAM A. PRENDERGAST, Comptroller.

Dated, New York, May 31, 1916. j2,13

IN PURSUANCE OF SECTION 986 OF THE Greater New York Charter, the Comptroller of the City of New York hereby gives public notice of the confirmation by the Supreme Court and the entering in the Bureau for the Collection of Assessments and Arrears of the assessment for OPENING AND ACQUIRING TITLE to the following named avenue in the BOROUGH OF BROOKLYN:

SECTION 12.
BELMONT AVE.—OPENING, from Powell st. to Junius st. and from Alabama ave. to Pennsylvania ave. Confirmed May 6, 1916; entered May 29, 1916.

The above assessment includes all those lots, 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.:

1. Bounded on the north by a line midway between Pitkin ave. and Belmont ave.; on the east by a line midway between Junius st. and Van Sinderen ave.; on the south by a line midway between Belmont ave. and Sutter ave., and on the west by a line midway between Sackman st. and Powell st.

2. Bounded on the north by a line midway between Pitkin ave. and Belmont ave.; on the east by a line midway between Pennsylvania ave. and New Jersey ave.; on the south by a line midway between Belmont ave. and Sutter ave., and on the west by a line midway between William st. and Alabama ave.

The above entitled assessment was entered on the day herebefore given in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of taxes and assessments and of water rents, and unless the amount assessed for benefit on any person or property shall be paid on or before July 28, 1916, which is sixty days after the date of said entry of the assessment, interest will be collected thereon at the rate of seven per centum per annum, to be calculated from ten days after the date of said entry to the date of payment, as provided by sections 159 and 987 of the Greater New York Charter.

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

WILLIAM A. PRENDERGAST, Comptroller.

Dated, New York, May 29, 1916. j1,12

IN PURSUANCE OF SECTION 986 OF THE Greater New York Charter, the Comptroller of the City of New York hereby gives public notice of the confirmation by the Supreme Court and the entering in the Bureau for the Collection of Assessments and Arrears of the assessment for OPENING AND ACQUIRING TITLE to the following named avenue in the BOROUGH OF BROOKLYN:

SECTIONS 15 and 16.

NEWKIRK AVE.—OPENING from Nostrand ave. to Brooklyn ave. Confirmed April 23, 1914, and May 1, 1916. Entered May 24, 1916. 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.:

Bounded on the north by a line midway between Avenue D and Newkirk Ave. and by the prolongation of the said line; on the east by a line midway between Brooklyn ave. and E 37th st.; on the south by a line midway between Newkirk ave. and Foster ave. and by the prolongation of the said line; and on the west by a line midway between E 28th st. and E 29th st.

—The above entitled assessment was entered on the day herebefore given in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of taxes and assessments and of water rents, and unless the amount assessed for benefit on any person or property shall be paid on or before July 24, 1916, which is sixty days after the date of said entry of the assessment, interest will be collected thereon at the rate of seven per centum per annum, to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 987 of the Greater New York Charter.

The above assessment is payable to the Collector of Assessments and Arrears at his office in the Offerman Building, 503 Fulton St., Brook-

lyn, between the hours of 9 a. m. and 2 p. m. and on Saturdays from 9 a. m. to 12 noon.

WILLIAM A. PRENDERGAST, Comptroller.
Dated, New York, May 24, 1916. m27,j8
IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF THE BRONX:

SECTION 12.
W. 236TH ST.—SEWER between Broadway and the westerly line of the right of way of the New York and Putnam Railroad. Area of assessment affects blocks 3268, 3269 and 3270.

SECTION 15.
MULINER AVE.—REGULATING, GRADING, SETTING CURBSTONES, FLAGGING SIDEWALKS, LAYING CROSSWALKS, BUILDING APPROACHES AND ERECTING FENCES from Morris Park Ave. to Bear Swamp rd. Area of assessment affects blocks 4055, 4056, 4263, 4264, 4294, 4295, 4297, 4298, 4323 and 4324.

—That the above assessments were confirmed by the Board of Assessors May 23, 1916, and entered May 23, 1916, in the Record of Titles of Assessments kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before July 22, 1916, which is sixty days after the date of said entry of the assessments, interest will be collected thereon at the rate of seven per centum per annum, to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 1019 of the Greater New York Charter.

The above assessments are payable to the Collector of Assessments and Arrears at his office in the Bergen Building, 4th floor, southeast corner of Arthur and Tremont 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 noon.

WILLIAM A. PRENDERGAST, Comptroller.

Dated, New York, May 23, 1916. m27,j8

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 assessment for LOCAL IMPROVEMENTS IN THE BOROUGH OF BROOKLYN:

SECTION 12.
NEWPORT ST.—REGULATING, GRADING, CURBING AND FLAGGING from Snedker ave. to Alabama ave. Area of assessment affects blocks 3834, 3835, 3836, 3851, 3852 and 3853.

—The above assessment was confirmed by the Board of Assessors on May 23, 1916, and entered May 23, 1916, in the records of Titles of Assessments kept in the Bureau for the Collection of Assessments and Arrears of Taxes and assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before July 22, 1916, which is sixty days after the date of said entry of the assessment, interest will be collected thereon at the rate of seven per centum per annum, to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 1019 of the Greater New York Charter.

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

WILLIAM A. PRENDERGAST, Comptroller.

Dated, New York, May 23, 1916. m27,j8

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.
HANCOCK ST.—REGULATING, GRADING, CURBING AND FLAGGING from Paynter ave. to Freeman ave. Area of assessment affects blocks 147 and 148.

SEWERS IN HANCOCK ST. from Crown north of Berce ave. to Vernon ave. IN GRAMHAM AVE. from Hancock st. to the Boulevard, and in SANFORD ST. from Hancock st. to the Boulevard. Area of assessment affects blocks 2, 3, 7, 8, 14 and 15.

SECOND WARD.

DECATUR ST.—REGULATING, GRADING, CURBING, LAYING SIDEWALKS AND CROSSWALKS from Brooklyn Borough Line to Cypress ave. Area of assessment affects blocks 2826, 2829, 2830, 2833, 2849, 2850 and 2829.

DITMARS AVE.—REGULATING, GRADING, CURBING, LAYING SIDEWALKS AND CROSSWALKS from Astoria ave. to Frigate st. Area of assessment affects blocks 299, 300, 301, 303, 307 to 314, inclusive; 334 to 344, inclusive; 355, 356, 359 to 367, inclusive; 374 to 383, inclusive, and 394.

PERVY AVE.—REGULATING, GRADING, CURBING, LAYING SIDEWALKS AND CROSSWALKS from Mueller st. (Fiske) to Broad st. Area of assessment affects blocks 1517, 2154, 2155, 2158, 2159, 2161, 2162, 2167, 2168, 2178 and 2179.

—That the above assessment was confirmed by the Board of Assessors on May 23, 1916, and entered May 23, 1916, in the Record of Titles of Assessments kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before July 22, 1916, which is sixty days after the date of said entry of the assessments, interest will be collected thereon at the rate of seven per centum per annum, to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 1019 of the Greater New York Charter.

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

WILLIAM A. PRENDERGAST, Comptroller.

Dated, New York, May 23, 1916. m27,j8

IN PURSUANCE OF SECTION 986 OF THE Greater New York Charter, the Comptroller of the City of New York hereby gives public notice of the confirmation by the Supreme Court and the entering in the Bureau for the Collection of Assessments and Arrears of the assessment for OPENING AND ACQUIRING TITLE to the following named street in the BOROUGH OF QUEENS:

FIRST WARD.

YOUNG ST.—OPENING from Review ave. to Hunters Point ave. Confirmed May 2, 1916. Entered May 23, 1916. Area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of Queens, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point on the southwesterly line of Hunters Point ave. where it is intersected by a line midway between Young st. and Pearsall st., and running thence westwardly along the

said line midway between Young st. and Pearsall st. to the intersection with a line distant 100 feet westerly from and parallel with the westerly line of Review ave., the said distance being measured at right angles to Review ave.; thence northwardly along the said line parallel with Review ave. to the intersection with a line midway between Young st. and Gilbert st.; thence eastwardly along the said line midway between Young st. and Gilbert st. and along the prolongation of the said line to the intersection with the southwesterly line of Hunters Point ave.; thence north-easterly at right angles to Hunters Point ave. to the intersection with a line distant 100 feet northeasterly from and parallel with the north-easterly line of Hunters Point ave., the said distance being measured at right angles to Hunters Point ave.; thence southwardly along the said line parallel with Hunters Point ave. to the intersection with a line at right angles to Hunters Point ave. and passing through the point of beginning; thence southwardly along the said line at right angles to Hunters Point ave. to the point of place of beginning.

The above entitled assessment was entered on the day heretofore given in the Record of Titles of Assessments kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before July 22, 1916, which is sixty days after the date of said entry of the assessments, interest will be collected thereon at the rate of seven per centum per annum, to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 987 of the Greater New York Charter.

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

WILLIAM A. PRENDERGAST, Comptroller.

Dated, New York, May 23, 1916. m27,j8

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

SECTION 1.

RESTORING ASPHALT PAVEMENT ON WHITEHALL ST. in front of premises No. 57. Area of assessment affects Lot 10 in Block 4. The above assessment was certified to the Collector of Assessments and Arrears, under the provisions of Section 391 of the Greater New York Charter, and entered May 22, 1916, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid on or before July 21, 1916, which is sixty days after the date of said entry of the assessments, interest will be collected thereon at the rate of seven per centum per annum to be calculated from ten days after the date of said entry to the date of payment, as provided by Sections 159 and 1019 of the Greater New York Charter.

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

WILLIAM A. PRENDERGAST, Comptroller.

Dated, New York, May 22, 1916. m25,j6

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

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

Borough of Queens.

BEING certain buildings, parts of buildings, etc., standing within the lines of Damage Parcels 513 and 514 of the Queens Boulevard proceeding, 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 1, 1916, the sale by sealed bids at the upset or minimum prices named in the description of each parcel, of the above described buildings and appurtenances thereto will be held by direction of the Comptroller on

TUESDAY, JUNE 20, 1916,

at 11 a. m., in lots and parcels, and in manner and form, and at upset prices as follows:

PARCEL NO. 513-14—Three-story frame building and two and one-half story frame building and sheds at the southeast corner of Queens Boulevard and Grand st., Elmhurst. Upset price, \$25.

Sealed bids (blank forms of which may be obtained upon application) will be received by the Comptroller at the office of the Collector of City Revenue, Room 368, Municipal Building, Borough of Manhattan, until 11 a. m., on the 20th day of June, 1916, and then publicly opened for the sale for removal of the above-described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

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

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

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

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

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

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

All bids must be inclosed in properly sealed envelopes, marked "Proposals to be opened June 20, 1916," and must be delivered, or mailed in time for their delivery, prior to 11 a. m. of that date to the "Collector of City Revenue, Room 368, Municipal Building, New York City," from whom any further particulars regarding the buildings to be disposed of may be obtained.

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

ALEXANDER BROUGH, Deputy and Acting Comptroller.

City of New York, Department of Finance, Comptroller's Office, June 1, 1916. j3,20

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 part of a building standing on Damage Parcel No. 2 within the lines of Blondell ave. between Ponton ave. and Westchester ave., in the Borough of The Bronx, which is more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room 368, Municipal Building, Borough of Manhattan.

PURSUANT to a resolution of the Commissioners of the Sinking Fund, adopted at a meeting held May 18, 1916, the sale by sealed bids at the upset or minimum prices named in the description of each parcel of the above buildings and appurtenances thereto will be held by direction of the Comptroller on

THURSDAY, JUNE 8, 1916,

at 11 a. m., in lots and parcels, and in manner and form, and at upset prices as follows:

PARCEL NO. 2: Part of one-story frame barn on the west side of Blondell ave., 45 feet north of Westchester ave. Cut 9.5 feet on north side by 11.2 feet on south side. Upset price, \$10.

Sealed bids (blank forms of which may be obtained upon application) will be received by the Comptroller at the office of the Collector of City Revenue, Room 368, Municipal Building, Borough of Manhattan, until 11 a. m., on the 8th day of June, 1916, and then publicly opened for the sale for removal of the above-described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

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

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

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

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

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

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

All bids must be inclosed in properly sealed envelopes, marked "Proposals to be opened June 8, 1916," and must be delivered, or mailed in time for their delivery, prior to 11 a. m. of that date to the "Collector of City Revenue, Room 368, Municipal Building, New York City," from whom any further particulars regarding the buildings to be disposed of may be obtained.

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

ALEX. BROUGH, Deputy and Acting Comptroller.

City of New York, Department of Finance, Comptroller's Office, May 19, 1916. m23,j8

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 certain buildings, parts of buildings, etc., standing within the lines of Queens Boulevard, from Fiske ave. to Grand st. and Broadway, 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 Nov. 4, 1914, 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

WEDNESDAY, JUNE 7, 1916,

at 11 a. m., in lots and parcels, and in manner and form, and at upset prices as follows:

PARCEL NO. 358: A two-story frame building, wagon shed and part of bowling alley on south side of Queens Boulevard, 180 feet east of Fiske ave. Upset price, \$50.

PARCEL NO. 359-360: Two-story frame building east of and adjoining Parcel No. 358. Also chicken coop and part of stable on rear of lot. Cut stable 5.37 feet on front by 2.33 feet on east side. Upset price, \$50.

Sealed bids (blank forms of which may be obtained upon application) will be received by the Comptroller at the office of the Collector of City Revenue, Room 368, Municipal Building, Borough of Manhattan, until 11 a. m., on the 7th day of June, 1916, and then publicly opened for the sale for removal of the above-described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

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

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

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

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

The Comptroller reserves the right to reject

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

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

All bids must be inclosed in properly sealed envelopes, marked "Proposals to be opened June 7, 1916," and must be delivered, or mailed in time for their delivery, prior to 11 a. m. of that date to the "Collector of City Revenue, Room 368, Municipal Building, New York City," from whom any further particulars regarding the buildings to be disposed of may be obtained.

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

ALEX. BROUGH, Deputy and Acting Comptroller.

City of New York, Department of Finance, Comptroller's Office, May 18, 1916. m22,j7

Sureties on Contracts.

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

Supplies of Any Description, Including Gas and Electricity.

One company on a bond up to \$50,000.

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

Construction.

One company on a bond up to \$25,000.

Including regulating, grading, paving, sewers, maintenance, dredging, construction of parks, parkways, docks, buildings, bridges, tunnels, aqueducts, repairs, heating, ventilating, plumbing, etc.

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

Asphalt, Asphalt Block and Wood Block Pavement.

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

WILLIAM A. PRENDERGAST, Comptroller.

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

WEDNESDAY, JUNE 14, 1916.

NO. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR THE ERECTION OF FIRE ESCAPES, AND IMPROVING THE VENTILATING SYSTEM OF THE COURT ROOMS IN THE BUILDING OCCUPIED BY THE MUNICIPAL COURT, BOROUGH OF THE BRONX, LOCATED AT 1624 ST. AND BROOK AVE.

The time allowed for erecting and completing the above work will be sixty (60) consecutive working days.

The amount of security required for the performance of the contract will be Two Thousand Dollars (\$2,000).

NO. 2. FOR PAVING WITH SHEET ASPHALT ON A CONCRETE FOUNDATION, THE ROADWAYS OF ST. MARY'S ST. FROM JACKSON AVE. TO WALES AVE.; WALES AVE. FROM THE EXISTING PAVEMENT SOUTH OF ST. MARY'S ST. TO E. 142d ST.; AND SETTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO (Permanent pavement.)

The Engineer's estimate of the work is as follows:

1,900 square yards of sheet asphalt pavement (medium traffic mixture) and keeping the pavement in repair for five years from date of acceptance.

380 cubic yards Class B concrete.

570 linear feet of new curb.

560 linear feet of old curb.

The time allowed for the full completion of the work herein described will be 30 consecutive working days.

The amount of security required for the performance of the contract will be Two Thousand Dollars (\$2,000).

NO. 3. FOR PAVING WITH BITUMINOUS CONCRETE ON A CEMENT CONCRETE FOUNDATION, THE ROADWAYS OF W. 36TH ST. FROM DAVIDSON AVE. TO HARRISON AVE.; HARRISON AVE. FROM DAVIDSON AVE. TO W. 181ST ST.; ADJUSTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO. (Preliminary Pavement.)

The Engineer's estimate of the work is as follows:

11,925 square yards of bituminous concrete pavement, and keeping the pavement in repair for five years from date of acceptance.

1,275 cubic yards of Class B concrete.

6,570 linear feet of curbstone adjusted.

The time allowed for the full completion of the work herein described will be 60 consecutive working days.

The amount of security required for the performance of the contract will be Seventy-three Hundred Dollars (\$7,300).

NO. 4. FOR PAVING WITH BITUMINOUS CONCRETE ON A CEMENT CONCRETE FOUNDATION, THE ROADWAY OF WALTON AVE. FROM FORDHAM RD. TO BURNSIDE AVE.; ADJUSTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO. (Preliminary Pavement.)

The Engineer's estimate of the work is as follows:

2,360 square yards of bituminous concrete pavement, and keeping the pavement in repair for five years from date of acceptance.

265 cubic yards of Class B concrete.

680 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 for the performance of the contract will be Fifteen Hundred Dollars (\$1,500).

NO. 5. FOR CONSTRUCTING SEWER AND APPURTENANCES IN HONE AVE., BETWEEN WALKER AVE. AND THE PROPERTY OF THE NEW YORK, NEW HAVEN AND HARTFORD RAILROAD COMPANY, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

376 linear feet of vitrified pipe sewer, 12-inch.

15 linear feet of vitrified pipe drains, 12-inch to 24-inch.

56 spurs for house connections.

4 manholes.

10 cubic yards of rock excavation.

30 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 30 consecutive working days.

The amount of security required for the per-

formance of the contract will be Seven Hundred and Fifty Dollars (\$750).

NO. 6. FOR CONSTRUCTING SEWER AND APPURTENANCES IN CROTONA PARKWAY FROM A POINT ABOUT 125 FEET NORTH OF E. 176TH ST. TO A POINT ABOUT 340 FEET NORTH OF E. 176TH ST., TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

215 linear feet of vitrified pipe sewer, 12-inch.

10 linear feet of vitrified pipe drains, 12-inch to 24-inch.

18 spurs for house connections.

2 manholes.

25 cubic yards of rock excavation.

15 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 30 consecutive working days.

The amount of security required for the performance of the contract will be Five Hundred Dollars (\$500).

NO. 7. FOR CONSTRUCTING SEWER AND APPURTENANCES IN W. 238TH ST., BETWEEN KINGSBRIDGE AVE. AND SPUYTEN DUYVIL RD., TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

262 linear feet of vitrified pipe sewer, 18-inch.

260 linear feet of vitrified pipe sewer, 15-inch.

260 linear feet of vitrified pipe sewer, 12-inch.

25 linear feet of vitrified pipe drains, 12-inch to 24-inch.

86 spurs for house connections.

8 manholes.

10 cubic yards of rock excavation.

60 cubic yards of Class A concrete.

260 cubic yards of Class B concrete.

60 cubic yards of Class C concrete.

7,000 pounds of steel reinforcement bars.

6,000 feet (B.M.) of timber.

1,000 feet (B.M.) of timber sheeting.

7,000 linear feet of piles.

The time allowed for the full completion of the work herein described will be 100 consecutive working days.

The amount of security required for the performance of the contract will be Thirty-six Hundred Dollars (\$3,600).

NO. 8. FOR REGULATING, GRADING, SETTING CURB, LAYING SIDEWALKS AND CROSSWALKS, BUILDING INLETS, RECEIVING BASINS, DRAINS, CULVERTS, APPROACHES AND GUARD RAILS WHERE NECESSARY IN W. 180TH ST., FROM LORING PL. TO UNIVERSITY AVE., TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

13,200 cubic yards of earth excavation.

3,200 cubic yards of rock excavation.

1,700 cubic yards of filling.

1,960 linear feet of concrete curb (including maintenance for one year).

9,550 square feet two-course concrete sidewalk (including maintenance for one year).

1,110 square feet of new bridge stone.

100 cubic yards of dry rubble masonry.

The time allowed for the full completion of the work herein described will be 120 consecutive working days.

The amount of security required for the performance of the contract will be Six Thousand Dollars (\$6,000).

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per linear foot, square foot, square yard, cubic yard, or other unit of measure, by which the bids will be tested. The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Blank forms 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.

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

BOROUGH OF BROOKLYN.

Local Board Hearings.

NOTICE IS HEREBY GIVEN THAT THE following petitions on file and ready for inspection will be submitted to the Local Board of the HEIGHTS DISTRICT at a meeting of said Board to be held in the Office of the President of the Borough of Brooklyn, Room 8, Borough Hall, on

THURSDAY, JUNE 15, 1916,

at 2 p. m.

A.—Approval of minutes of meeting held Feb. 17, 1916.

1. **COMMERCE ST.** To have Commerce st., between Columbia and Richards sts., regulated, graded, guttered and paved. Resolution to read: To regulate, grade, set curb, lay cement sidewalks and pave with permanent granite block pavement Commerce st., between Columbia and Richards sts.

Also the following reports from the Department of Public Works, Bureau of Highways, on file and ready for inspection, will be submitted:

ing on the north and south sides of 88th st. between Ridge Boulevard and Colonial rd., and between Colonial rd. and Shore Drive.

4. DAHLGREEN PL. To construct sewers in Dahlgreen pl. from 92nd st. to Fort Hill pl. Resolution to add outlet sewer in Fort Hill pl. between Dahlgreen pl. and Battery ave.

5. DAHLGREEN PL. To regulate, grade, set curb and lay sidewalks on Dahlgreen pl. from 92nd st. to Fort Hill pl. Should amend Local Board resolution of Oct. 24, 1913, so as to read as follows: To regulate, grade, set cement curb and lay cement sidewalks on Dahlgreen pl. from 92nd st. to Fort Hill pl.

6. 88TH ST. To reconsider petition and Local Board resolution of April 13, 1916, to regulate and grade the area of the sidewalk and between the curb line and the macadam pavement, and to set curb and lay cement sidewalks on 88th st. from 4th ave. to 7th ave.

6-a. 6TH AV. To regrade, reset curb and relay sidewalks on 6th Ave. from 62nd St. to 63rd St.

Also the following reports from the Department of Public Works, Bureau of Highways, on file and ready for inspection, will be submitted:

To make necessary repairs to sidewalks at the expense of the owner or owners of lots, as follows:

7. BALTIMORE ST., No. 470, south side, 325 feet to 350 feet west of Nevins st., known as Lot No. 20, Block 405. Estimated cost, \$50; assessed valuation, \$1,500.

8. BALTIMORE ST., No. 567, north side, 175 feet to 200 feet east of 3rd ave., known as Lot No. 70, Block 401. Estimated cost, \$15; assessed valuation, \$1,900.

9. BALTIMORE ST., south side, 280 feet to 350 feet east of Nevins st., known as Lots Nos. 21, 22 and 23, Block 406. Estimated cost, \$120; assessed valuation, \$4,200.

9-a. BAY RIDGE AVE., No. 218, southwest corner of Bay Ridge pl., known as Lot No. 20, Block 571. Estimated cost, \$48; assessed valuation, \$1,500.

10. BERGEN ST., No. 10, south side, between Court st. and Smith st., known as Lot No. 11, Block 384. Estimated cost, \$65; assessed valuation, \$3,600.

11. BERGEN ST., No. 42, south side, between Court st. and Smith st., known as Lot No. 26, Block 384. Estimated cost, \$123; assessed valuation, \$3,000.

12. BERGEN ST., No. 56, south side, between Court st. and Smith st., known as Lot No. 33, Block 384. Estimated cost, \$62.50; assessed valuation, \$2,500.

13. BERGEN ST., No. 256, and Nos. 145-151 Nevins st. (southeast corner), known as Lot No. 8, Block 388. Estimated cost, \$30; assessed valuation, \$5,000.

14. BERGEN ST., southeast corner of Court st., on Bergen st. side, known as Lot No. 10, Block 384. Estimated cost, \$220; assessed valuation, \$7,200.

15. BOND ST., Nos. 190-192, west side, between Wyckoff st. and Warren st., known as Lot Nos. 42 and 43, Block 392. Estimated cost, \$64.20; assessed valuation, \$2,000.

16. BOND ST., No. 218, and No. 444 Baltic st. (southwest corner), known as Lot No. 32, Block 404. Estimated cost, \$200; assessed valuation, \$3,600.

17. BOND ST., No. 232, west side, between Butler st. and Baltic st., known as Lot No. 38, Block 404. Estimated cost, \$48; assessed valuation, \$900.

18. BOND ST., No. 234, west side, 20 feet to 40 feet north of Butler st., known as Lot No. 39, Block 404. Estimated cost, \$50; assessed valuation, \$900.

19. BOND ST., No. 236, and No. 189 Butler st. (northwest corner), known as Lot No. 40, Block 404. Estimated cost, \$110; assessed valuation, \$1,400.

20. BOND ST., No. 334, and Nos. 403-407 President st. (northwest corner), known as Lot No. 45, Block 437. Estimated cost, \$278; assessed valuation, \$1,000.

21. BUTLER ST., No. 138, south side, between Hoyt st. and Bond st., known as Lot No. 15, Block 410. Estimated cost, \$100; assessed valuation, \$1,750.

22. CARROLL ST., No. 306, and No. 354 Hoyt st. (southwest corner), known as Lot No. 39, Block 450. Estimated cost, \$50; assessed valuation, \$3,000.

23. CARROLL ST., No. 332, south side, between Hoyt st. and Bond st., known as Lot No. 18, Block 451. Estimated cost, \$22; assessed valuation, \$1,000.

24. CARROLL ST., No. 338, south side, between Hoyt st. and Bond st., known as Lot No. 21, Block 451. Estimated cost, \$37.80; assessed valuation, \$900.

25. CARROLL ST., No. 511, north side, 291 feet 10 inches to 317 feet 10 inches west of 4th ave., known as Lot No. 55, Block 448. Estimated cost, \$26.40; assessed valuation, \$1,750.

25-a. CLINTON ST., Nos. 576-78, and Nos. 122-128 W. 9th st. (southwest corner), known as Lot No. 27, Block 540. Estimated cost, \$15; assessed valuation, \$3,500.

26. CLINTON ST., No. 593, and Nos. 133-139 Mill st. (east corner), known as Lot No. 1, Block 541. Estimated cost, \$31; assessed valuation, \$1,500.

27. CLINTON ST., No. 595, and Nos. 132-140 Mill st. (south corner), known as Lot No. 8, Block 552. Estimated cost, \$69.50; assessed valuation, \$1,800.

28. COLUMBIA ST., Nos. 477-479, and Nos. 19 Centre st. (northeast corner), known as Lot No. 1, Block 549. Estimated cost, \$543; assessed valuation, \$2,800.

29. COLUMBIA ST., No. 511, southeast side, between Bush and Lorraine sts., known as Lot No. 4, Block 569. Estimated cost, \$60; assessed valuation, \$1,200.

30. COURT ST., No. 577, and Nos. 229-237 Lorraine st. (east corner), known as Lot No. 1, Block 484. Estimated cost, \$230; assessed valuation, \$1,750.

31. COURT ST., No. 583, east side, between Lorraine st. and Creamer st., known as Lot No. 8, Block 486. Estimated cost, \$50; assessed valuation, \$1,600.

32. COURT ST., No. 596, west side, between Hamilton ave. and Bush st., known as Lot No. 33, Block 562. Estimated cost, \$50; assessed valuation, \$1,500.

33. DEGRAU ST., No. 455, north side, between Hoyt st. and Bond st., known as Lot No. 48, Block 416. Estimated cost, \$127.50; assessed valuation, \$3,500.

34. DEGRAU ST., No. 449, north side, between Hoyt st. and Bond st., known as Lot No. 53, Block 416. Estimated cost, \$75; assessed valuation, \$1,750.

35. DEGRAU ST., No. 471, and Nos. 261-265 Bond st. (northeast corner), known as Lot No. 36, Block 417. Estimated cost, \$25; assessed valuation, \$1,400.

36. DEGRAU ST., No. 607, north side, between 3rd ave. and 4th ave., known as Lot No. 55, Block 420. Estimated cost, \$34; assessed valuation, \$1,450.

37. HENRY ST., No. 721, northeast corner of W. 9th st., known as Lot No. 1, Block 536. Estimated cost, \$110; assessed valuation, \$2,500.

38. HICKS ST., No. 823, and No. 183 Bush st. (northeast corner), known as Lot No. 1, Block 560. Estimated cost, \$430; assessed valuation, \$1,000.

39. HOYT ST., No. 345, and Nos. 311-313 Carroll st. (northeast corner), known as Lot No. 1, Block 444. Estimated cost, \$28; assessed valuation, \$3,900.

40. HUNTINGTON ST., Nos. 106-112, and No. 280 Hamilton ave. (southwest corner), known as Lot No. 18, Block 536. Estimated cost, \$120; assessed valuation, \$4,000.

41. MILL ST., Nos. 78-80, and No. 742 Henry st. (southwest corner), known as Lot No. 25, Block 550. Estimated cost, \$292.50; assessed valuation, \$1,400.

42. NELSON ST., 163, north side, between Clinton st. and Court st., known as Lot No. 41, Block 377. Estimated cost, \$42.50; assessed valuation, \$1,950.

43. NELSON ST., No. 198, south side, between Court st. and Smith st., known as Lot No. 21, Block 474. Estimated cost, \$45; assessed valuation, \$1,000.

44. NELSON ST., No. 200, south side, between Court st. and Smith st., known as Lot No. 22, Block 474. Estimated cost, \$42; assessed valuation, \$1,000.

45. PRESIDENT ST., north side, 80 feet to 244 feet east of 3rd ave., known as Lot No. 53, Block 441. Estimated cost, \$460; assessed valuation, \$12,850.

46. SMITH ST., No. 175, east side, between Wyckoff st. and Warren st., known as Lot No. 7, Block 391. Estimated cost, \$7.50; assessed valuation, \$6,800.

47. SMITH ST., No. 177, east side, between Wyckoff st. and Warren st., known as Lot No. 6, Block 391. Estimated cost, \$60; assessed valuation, \$10,000.

48. SMITH ST., No. 183, east side, between Wyckoff st. and Warren st., known as Lot No. 3, Block 391. Estimated cost, \$42; assessed valuation, \$6,000.

49. SMITH ST., No. 185, east side, between Wyckoff st. and Warren st., known as Lot No. 2, Block 391. Estimated cost, \$20; assessed valuation, \$6,000.

50. SMITH ST., No. 187, and Nos. 317-321 Warren st. (northeast corner), known as Lot No. 1, Block 391. Estimated cost, \$170; assessed valuation, \$11,000.

51. SMITH ST., No. 225, and Nos. 68-70 Butler st. (southeast corner), known as Lot No. 9, Block 409. Estimated cost, \$20; assessed valuation, \$8,600.

52. SMITH ST., Nos. 525-537, east side, from the south side of Garret st. to the north side of Centre st., known as Lot No. 55, Block 480. Estimated cost, \$300; assessed valuation, \$7,900.

53. SMITH ST., Nos. 532-538, and Nos. 247-255 Bush st. (north corner), known as Lot No. 31, Block 482. Estimated cost, \$55.50; assessed valuation, \$5,000.

54. SMITH ST., Nos. 568-570, northwest corner of Creamer st., known as Lot No. 23, Block 486. Estimated cost, \$31; assessed valuation, \$2,800.

55. SMITH ST., east side, between Sigourney st. and Bay st., known as Lot No. 1, Block 491. Estimated cost, \$50; assessed valuation, \$64,500.

56. UNION ST., No. 395, northeast corner of 3rd ave., known as Lot No. 1, Block 434. Estimated cost, \$65; assessed valuation, \$23,000.

57. WARREN ST., No. 320, south side, between Court st. and Smith st., known as Lot No. 33, Block 396. Estimated cost, \$50; assessed valuation, \$2,200.

58. WYCKOFF ST., Nos. 95-97, north side, 241 feet 6 inches to 285 feet 3 inches east of Smith st., known as Lot No. 60, Block 385. Estimated cost, \$123.50; assessed valuation, \$4,350.

59. WYCKOFF ST., No. 264, south side, between Nevins st. and 3rd ave., known as Lot No. 5, Block 394. Estimated cost, \$50; assessed valuation, \$2,100.

60. 1ST ST., No. 195, northwest corner of Whitwell pl., known as Lot No. 27, Block 454. Estimated cost, \$55; assessed valuation, \$5,700.

61. 2ND AVE., No. 178, west side, between 13th and 14th sts., known as Lot No. 54, Block 1031. Estimated cost, \$50; assessed valuation, \$1,250.

62. 2ND AVE., No. 180, west side, between 13th and 14th sts., known as Lot No. 55, Block 1031. Estimated cost, \$50; assessed valuation, \$1,250.

63. 2ND AVE., No. 181, and Nos. 56-66 14th st. (southeast corner), known as Lot No. 9, Block 1039. Estimated cost, \$37; assessed valuation, \$1,750.

64. 2ND AVE., Nos. 182-188, northwest corner of 14th st., known as Lot No. 56, Block 1031. Estimated cost, \$499; assessed valuation, \$10,000.

65. 2ND AVE., Nos. 190-198, southwest corner of 14th st., known as Lot No. 46, Block 1038. Estimated cost, \$355; assessed valuation, \$5,000.

66. 2ND AVE., Nos. 200-208, northwest corner of 15th st., known as Lot No. 1, Block 1038. Estimated cost, \$355; assessed valuation, \$5,500.

67. 2ND AVE., Nos. 210-216, and Nos. 475-478 Hamilton ave., and Nos. 214 Fifteenth st., known as Lot No. 1, Block 1044. Estimated cost, \$998; assessed valuation, \$4,000.

68. 3RD AVE., No. 157, east side, between Baltic st. and Butler st., known as Lot No. 2, Block 407. Estimated cost, \$25; assessed valuation, \$3,200.

69. 3RD AVE., Nos. 210-218, and Nos. 580-588 Degraw st. (southwest corner), known as Lot No. 31, Block 426. Estimated cost, \$120; assessed valuation, \$9,800.

70. 3RD AVE., Nos. 228-230, and Nos. 579-583 Sackett st. (northwest corner), known as Lot No. 38, Block 426. Estimated cost, \$170; assessed valuation, \$5,000.

71. 3RD AVE., No. 634, and Nos. 100-108 Eighteenth st. (southwest corner), known as Lot No. 82, Block 632. Estimated cost, \$45; assessed valuation, \$5,000.

72. 3RD AVE., No. 665, northeast corner of 20th st., known as Lot No. 1, Block 636. Estimated cost, \$44; assessed valuation, \$3,900.

73. 3RD AVE., No. 681, east side, between 20th st. and 21st st., known as Lot No. 3, Block 639. Estimated cost, \$54; assessed valuation, \$2,500.

74. 3RD AVE., No. 719, and Nos. 114-122 Twenty-third st. (south corner), known as Lot No. 9, Block 648. Estimated cost, \$590; assessed valuation, \$4,000.

75. 3RD AVE., Nos. 720-726, southwest corner of 23rd st., known as Lot No. 80, Block 647. Estimated cost, \$47.50; assessed valuation, \$12,000.

76. 3RD AVE., No. 5324, and Nos. 273-277 Fifty-fourth st. (northwest corner), known as Lot No. 49, Block 813. Estimated cost, \$72.50; assessed valuation, \$9,600.

77. 3RD PL., No. 112, south side, between Court and Smith sts., known as Lot No. 13, Block 467. Estimated cost, \$56; assessed valuation, \$1,500.

78. 4TH AVE., No. 92, west side, between St. Marks pl. and Warren st., known as Lot No. 36, Block 395. Estimated cost, \$50; assessed valuation, \$3,100.

79. 4TH AVE., No. 94, west side, between St. Marks av. and Warren st., known as Lot No. 37, Block 395. Estimated cost, \$40; assessed valuation, \$3,100.

80. 4TH AVE., No. 97, and Nos. 603-605 Warren st. (northeast corner), known as Lot No. 1, Block 934. Estimated cost, \$27.50; assessed valuation, \$5,000.

81. 4TH AVE., No. 119, and Nos. 606-620 Baltic st., including alley, known as Lot No. 1, Block 940. Estimated cost, \$165; assessed valuation, \$7,500.

82. 4TH AVE., No. 211, and Nos. 563-671 Union st. (northeast corner), known as Lot No. 1, Block 952. Estimated cost, \$600; assessed valuation, \$7,600.

83. 5TH AVE., No. 108, and Nos. 665-671 Baltic st. (northwest corner), known as Lot No. 46, Block 937. Estimated cost, \$35; assessed valuation, \$13,000.

84. 6TH AVE., No. 633, and Nos. 306-310 Seventeenth st. (southeast corner), known as Lot No. 12, Block 874. Estimated cost, \$540; assessed valuation, \$2,100.

85. 7TH AVE., No. 595, northwest side, 56 feet to 75 feet south of 21st st., known as Lot No. 43, Block 898. Estimated cost, \$60; assessed valuation, \$1,025.

86. 7TH AVE., No. 4223, northeast corner of 43rd st., known as Lot No. 1, Block 924. Estimated cost, \$52.50; assessed valuation, \$2,700.

87. 8TH AVE., Nos. 1677-1685, east side, between Prospect ave. and 17th st., known as Lots Nos. 1, 2 and 3, Block 870. Estimated cost, \$265.20; assessed valuation, \$7,400.

88. 8TH AVE., No. 1918, west side, 46 feet 10 inches to 73 feet 6 inches north of 20th st., known as Lot No. 47, Block 887. Estimated cost, \$35; assessed valuation, \$2,000.

89. 9TH ST., No. 5, north side, between Smith st. and Gowanus Canal, known as Lot No. 47, Block 477. Estimated cost, \$60; assessed valuation, \$1,600.

90. 9TH AVE., Nos. 298-300, west side, 50 feet to 100 feet north of 19th st., known as Lot No. 42, Block 882. Estimated cost, \$40; assessed valuation, \$5,000.

91. 9TH AVE., No. 304, north corner of 19th st., known as Lot No. 45, Block 882. Estimated cost, \$102; assessed valuation, \$3,700.

92. 12TH AVE., No. 4106, west side, between 41st and 42nd sts., known as Lot No. 42, Block 5592. Estimated cost, \$7.50; assessed valuation, \$1,475.

93. 14TH ST., No. 52, south side, 260 feet to 285 feet east of 2d ave., known as Lot No. 19, Block 1039. Estimated cost, \$6; assessed valuation, \$1,400.

94. 14TH ST., No. 97, north side, 360 feet to 382½ feet east of 2d ave., known as Lot No. 52, Block 1032. Estimated cost, \$48; assessed valuation, \$1,300.

95. 15TH ST., No. 33, north side, 98 feet to 123 feet east of 2nd ave., known as Lot No. 71, Block 1039. Estimated cost, \$37; assessed valuation, \$1,500.

96. 15TH ST., Nos. 60-68, south side, 27 feet to 236 feet west of 3rd ave., known as Lot No. 28, Block 1045. Estimated cost, \$59; assessed valuation, \$6,000.

97. 17TH ST., No. 339, north side, between 6th and 7th aves., known as Lot No. 58, Block 868. Estimated cost, \$4.80; assessed valuation, \$3,750.

98. 17TH ST., No. 421, north side, 88 feet 5 inches to 101 feet west of 8th ave., known as Lot No. 52, Block 869. Estimated cost, \$37.50; assessed valuation, \$750.

99. 17TH ST., No. 443, north side, 125 feet to 150½ feet east of 8th ave., known as Lot No. 68, Block 870. Estimated cost, \$62.50; assessed valuation, \$1,500.

100. 17TH ST., No. 475, north side, between 8th ave. and 9th ave., known as Lot No. 50, Block 870. Estimated cost, \$10; assessed valuation, \$1,440.

101. 17TH ST., No. 477, north side, between 8th ave. and Prospect Park West, known as Lot No. 49, Block 870. Estimated cost, \$10; assessed valuation, \$1,440.

102. 17TH ST., No. 483, north side, 75 feet to 100 feet west of 9th ave., known as Lot No. 70, Block 870. Estimated cost, \$7.50; assessed valuation, \$15,000.

103. 17TH ST., Nos. 485-487, and No. 272 Ninth ave. (northwest corner), known as Lot No. 44, Block 870. Estimated cost, \$198; assessed valuation, \$3,800.

104. 18TH ST., Nos. 488-496, and Nos. 290-296 Prospect Park West (southwest corner), known as Lot No. 37, Block 882. Estimated cost, \$150; assessed valuation, \$11,000.

105. 18TH ST., No. 511-517, northeast side, 99 feet to 180 feet east of Prospect Park West, known as Lot No. 72, Block 877. Estimated cost, \$108; assessed valuation, \$4,000.

106. 20TH ST., Nos. 124-126, south side, 100 feet to 131½ feet east of 3rd ave., known as Lots Nos. 12 and 13, Block 639. Estimated cost, \$72.50; assessed valuation, \$2,360.

107. 20TH ST., No. 461, north side, 325 feet to 350 feet west of 9th ave., known as Lot No. 60, Block 888. Estimated cost, \$33; assessed valuation, \$1,250.

108. 20TH ST., No. 467, north side, 272 feet to 286 feet west of 9th ave., known as Lot No. 57, Block 888. Estimated cost, \$8; assessed valuation, \$700.

109. 20TH ST., Nos. 469-483, northeast side, 110.4 feet to 222 feet west of 9th ave., known as Lot No. 50, Block 888. Estimated cost, \$85; assessed valuation, \$8,100.

110. 21ST ST., No. 127, north side, 100 feet to 125 feet east of 3rd ave., known as Lot No. 63, Block 639. Estimated cost, \$84; assessed valuation, \$1,750.

111. 21ST ST., No. 131, north side, 149.5 feet to 175 feet east of 3rd ave., known as Lot No. 61, Block 639. Estimated cost, \$84; assessed valuation, \$1,750.

112. 21ST ST., No. 133, north side, 175 feet to about 200 feet east of 3rd ave., known as Lot No. 60, Block 639. Estimated cost, \$76.50; assessed valuation, \$1,750.

113. 21ST ST., No. 139, north side, 250 feet to 275 feet east of 3rd ave., known as Lot No. 56, Block 639. Estimated cost, \$110; assessed valuation, \$5,250.

114. 22ND ST., No. 229, north side, between 4th and 5th aves., known as Lot No. 46, Block 643. Estimated cost, \$80; assessed valuation, \$1,350.

115. 23RD ST., No. 192, south side, about 485 feet to about 501.5 feet west of 5th ave., known as Lot No. 14, Block 649. Estimated cost, \$14; assessed valuation, \$1,250.

116. 23RD ST., No. 206, south side, 326.5 feet to 350.5 feet west of 5th ave., known as Lot No. 21, Block 649. Estimated cost, \$26; assessed valuation, \$1,875.

117. 23RD ST., No. 218, south side, 176 feet to 201 feet west of 5th ave., known as Lot No. 28, Block 649. Estimated cost, \$24; assessed valuation, \$1,875.

118. 24TH ST., No. 275, north side, 200 feet to 225 feet east of 4th ave., known as Lot No. 59, Block 649. Estimated cost, \$47.50; assessed valuation, \$1,875.

119. 32ND ST., southwest corner of 4th ave., known as Lot No. 38, Block 680. Estimated cost, \$12.50; assessed valuation, \$11,700.

120. 33RD ST., No. 138, south side, between 3rd and 4th aves., known as Lot No. 21, Block 684. Estimated cost, \$10; assessed valuation, \$1,400.

120-a. 40TH ST., No. 628, south side, between 6th and 7th aves., known as Lot No. 18, Block 918. Estimated cost, \$6.25; assessed valuation, \$1,400.

121. 40TH ST., No. 636, southwest side, between 6th and 7th aves., known as Lot No. 21, Block 918. Estimated cost, \$7.50; assessed valuation, \$1,400.

122. 40TH ST., No. 1200, and Nos. 4001-4013 Twelfth ave. (south corner), known as Lot No. 7, Block 589. Estimated cost, \$15; assessed valuation, \$1,500.

123. 44TH ST., No. 439, north side, between 4th and 5th aves., known as Lot No. 65, Block 729. Estimated cost, \$6; assessed valuation, \$1,700.

124. 46TH ST., No. 429, north side, between 4th and 5th aves., known as Lot No. 64, Block 747. Estimated cost, \$1; assessed valuation, \$1,800.

NO. 4. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR CONSTRUCTING A SEWER IN AVENUE J, BETWEEN E. 3RD AND E. 4TH STS. AND OUTLET SEWER IN E. 4TH ST., BETWEEN AVENUE J AND 22ND AVE.

The Engineer's preliminary estimate of the quantities is as follows:

103 linear feet of 18-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$2.25 \$231.75
215 linear feet of 12-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$1.60 344.00
23 linear feet of 6-inch house connection drain, laid complete, including all incidentals and appurtenances; per linear foot, \$0.70 16.10
3 manholes complete, with iron heads and covers, including all incidentals and appurtenances; per manhole, \$50 150.00
2 sewer basins complete, of either standard design, with iron pans or gratings, iron basin hoods and connecting culverts, including all incidentals and appurtenances; per basin, \$125 250.00

Total \$991.85

The time allowed for the completion of the work and full performance of the contract will be thirty (30) working days.

The amount of security required will be Five Hundred Dollars (\$500).

NO. 5. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR CONSTRUCTING SEWERS IN AVENUE Q, BETWEEN E. 12TH AND E. 13TH STS.

The Engineer's preliminary estimate of the quantities is as follows:

189 linear feet of 12-inch pipe storm sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$1.20 \$226.80
185 linear feet of 8-inch pipe sanitary sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$1.30 240.50
20 linear feet of 6-inch storm house connection drain, laid complete, including all incidentals and appurtenances; per linear foot, \$0.55 11.00
74 linear feet of 6-inch sanitary house connection drain, laid complete, including all incidentals and appurtenances; per linear foot, \$0.70 51.80
2 manholes on storm sewers complete, with special iron heads and special covers, including all incidentals and appurtenances; per manhole, \$35 70.00
2 manholes on sanitary sewers complete, with standard iron heads and special covers, including all incidentals and appurtenances; per manhole, \$50 100.00

Total \$700.13

The time allowed for the completion of the work and full performance of the contract will be thirty (30) working days.

The amount of security required will be Three Hundred and Fifty Dollars (\$350).

The foregoing Engineer's preliminary estimates of the total cost for the completed work are to be taken as the 100 per cent. basis and test for bidding. Proposals shall state a single percentage of such 100 per cent. (such as 95 per cent., 100 per cent. or 105 per cent.) for which all materials and work called for in the proposed contract and the notices to bidders are to be furnished to the City. Such percentage as bid for each contract shall apply to all unit items specified in the Engineer's preliminary estimate to an amount necessary to complete the work described in the contract.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Sewers, 215 Montague st., Brooklyn.

L. H. POUNDS, President.
m25,j7
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 Brooklyn at Room 2, Borough Hall, Brooklyn, until 11 a. m., on

WEDNESDAY, JUNE 7, 1916.

NO. 1. FOR ROOFING AND TERRA COTTA WORK FOR REPAIR OF THE PREMISES KNOWN AS THE WILLIAMS-BURG TRUST COMPANY BUILDING, SITUATED ON THE NORTH SIDE OF SOUTH 5TH ST., BETWEEN DRIGGS AVE. AND ROEBLING ST., BOROUGH OF BROOKLYN, SO AS TO PREPARE THE BUILDING FOR USE AS A COURT HOUSE.

The time allowed for the completion of the work and full performance of the contract is thirty (30) consecutive working days.

The amount of security required for the faithful performance of the contract is One Thousand (\$1,000) Dollars.

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

Blank forms and further information may be obtained and plans and drawings may be seen at the Bureau of Public Buildings and Offices, Room 1003, No. 50 Court st., Brooklyn.

L. H. POUNDS, President.
m25,j7
See General Instructions to Bidders on last page, last column, of the "City Record."

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WEDNESDAY, JUNE 7, 1916.

NO. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SANITARY SEWER AND STORM WATER SEWER IN BAY 31ST ST., FROM BENSON AVE. TO 86TH ST.

The Engineer's preliminary estimate of the quantities is as follows:

650 linear feet of 12-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$1.35 \$877.50
650 linear feet of 8-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$1.30 845.00
300 linear feet of 8-inch house connection drain, laid complete, including elbows, 8" x 6" x 6" V branches and all incidentals and appurtenances; per linear foot, \$0.85 255.00
390 linear feet of 6-inch house connection drain, laid complete, including all incidentals and appurtenances; per linear foot, \$0.70 273.00
14 house connection drains, reconnected complete, including all incidentals and appurtenances; per house connection drain reconnected, \$3 42.00
10 manholes complete, with iron heads and covers, including all incidentals and appurtenances; per manhole, \$45 450.00
1,000 feet, board measure, of foundation planking and pile capping, laid in place complete, including all incidentals and appurtenances; per thousand feet, board measure, \$25 25.00

50 linear feet of piles, driven in place complete, including all incidentals and appurtenances; per linear foot, \$0.30 15.00
5 cubic yards of concrete, class "B," laid in place complete, including all incidentals and appurtenances; per cubic yard, \$6 30.00
5 cubic yards of extra excavation, including sheeting and bracing, and all labor, materials, incidentals and appurtenances; per cubic yard, \$0.50 2.50

Total \$2,815.00

The time allowed for the completion of the work and full performance of the contract will be forty-five (45) working days.

The amount of security required will be Fourteen Hundred Dollars (\$1,400).

NO. 2. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR CONSTRUCTING A SEWER BASIN ON RALPH AVE. AT THE NORTHWEST CORNER OF UNION ST.

The Engineer's preliminary estimate of the quantities is as follows:

One (1) sewer basin complete, of either standard design, with iron pans or grating, iron basin hood and connecting culvert, including all incidentals and appurtenances; per basin, \$125 \$125.00

The time allowed for the completion of the work and full performance of the contract will be ten (10) working days.

The amount of security required will be Sixty Dollars (\$60).

The foregoing Engineer's preliminary estimates of the total cost for the completed work are to be taken as the 100 per cent. basis and test for bidding. Proposals shall state a single percentage of such 100 per cent. (such as 95 per cent., 100 per cent. or 105 per cent.) for which all materials and work called for in the proposed contract and the notices to bidders are to be furnished to the City. Such percentage as bid for each contract shall apply to all unit items specified in the Engineer's preliminary estimate to an amount necessary to complete the work described in the contract.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Sewers, 215 Montague st., Brooklyn.

L. H. POUNDS, President.
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WEDNESDAY, JUNE 7, 1916.

NO. 1. FOR REGULATING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF CANARIE LANE FROM FLATBUSH AVE. TO NOSTRAND AVE.

The Engineer's estimate is as follows:

1,900 cubic yards excavation to subgrade.
110 linear feet bluestone heading stones set in concrete.
1,265 cubic yards concrete.
7,605 square yards asphalt pavement (5 years maintenance).
Time allowed, 35 working days. Security required, \$5,500.

NO. 2. FOR REGULATING, GRADING, CURBING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF E. 3RD ST. FROM AVENUE J TO 22ND AVE.

The Engineer's estimate is as follows:

360 cubic yards excavation.
146 linear feet bluestone heading stones set in concrete.
640 linear feet steel bound cement curb (1 year maintenance).
210 cubic yards concrete.
1,255 square yards asphalt pavement (5 years maintenance).
Time allowed, 25 working days. Security required, \$900.

NO. 3. FOR REGULATING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF E. 21ST ST. FROM CHURCH AVE. TO ALBEMARLE RD.

The Engineer's estimate is as follows:

670 cubic yards excavation to subgrade.
445 cubic yards concrete.
2,680 square yards asphalt pavement (5 years maintenance).
Time allowed, 30 working days. Security required, \$2,000.

NO. 4. FOR REGULATING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF KENMORE PL. FROM AVENUE G TO A LINE 520 FEET SOUTHERLY THEREFROM.

The Engineer's estimate is as follows:

330 cubic yards excavation to subgrade.
30 linear feet bluestone heading stones set in concrete.
295 cubic yards concrete.
1,765 square yards asphalt pavement (5 years maintenance).
Time allowed, 30 working days. Security required, \$1,300.

NO. 5. FOR REGULATING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 5-INCH CONCRETE FOUNDATION THE ROADWAY OF LIVONIA AVE. FROM AMES ST. TO HOPKINSON AVE.

The Engineer's estimate is as follows:

510 cubic yards excavation to subgrade.
95 linear feet bluestone heading stones set in concrete.
100 linear feet cement curb (1 year maintenance).
300 cubic yards concrete.
2,170 square yards asphalt pavement (5 years maintenance).
2 sewer basins rebuilt, including new iron heads.

Time allowed, 30 working days. Security required, \$1,600.

NO. 6. FOR REGULATING, REGRADING, RELAYING CURB AND SIDEWALKS WHERE NECESSARY AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF SULLIVAN ST. FROM BEDFORD AVE. TO NOSTRAND AVE.

The Engineer's estimate is as follows:

2,730 cubic yards excavation.
60 linear feet bluestone heading stones set in concrete.
50 linear feet granite heading stones set in concrete.
50 linear feet cement curb (1 year maintenance).
250 square feet cement sidewalks (1 year maintenance).
250 square feet 6-inch cinder or gravel sidewalk foundation.
1,057 cubic yards concrete.
6,350 square yards asphalt pavement (5 years maintenance).
Time allowed, 40 working days. Security required, \$5,000.

NO. 7. FOR REGULATING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 5-INCH CONCRETE FOUNDATION THE ROADWAY OF W. 30TH ST. FROM SURF AVE. TO A LINE ABOUT 360 FEET SOUTH OF SURF AVE.

The Engineer's estimate is as follows:

275 cubic yards excavation to subgrade.
30 linear feet bluestone heading stones set in concrete.
1,145 linear feet new curbstone set in concrete.
25 linear feet bluestone heading stones set in concrete.
240 linear feet granite heading stones set in concrete.
285 square feet granite crosswalks relaid.
2,615 cubic yards concrete.
11,310 square yards asphalt pavement.
295 square yards grade 1 granite pavement with joint filler of cement grout.
205 square yards grade 2 granite pavement with joint filler of cement grout.
3,930 square yards grade 2 granite pavement with joint filler of coal tar pitch and gravel.
1,970 square yards grade 2 granite pavement on a sand foundation with joint filler of sand.

Time allowed, 45 working days. Security required, \$18,000.

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, Borough of Brooklyn, Room 502, No. 50 Court St., Brooklyn.

L. H. POUNDS, President.
m25,j7
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the President of Borough of Brooklyn at Room 2, Borough Hall, Brooklyn, until 11 a. m., on

WEDNESDAY, JUNE 7, 1916.

NO. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWERS IN HOWARD AVE. FROM POINT ABOUT 250 FEET SOUTH OF HERKIMER ST. TO HERKIMER ST. AND IN HERKIMER ST. FROM HOWARD AVE. TO RALPH AVE. AND IN RALPH AVE. FROM HERKIMER ST. TO CHAUNCEY ST.

The Engineer's preliminary estimate of the quantities is as follows:

1,145 linear feet of 42-inch sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$9.20 \$10,534.00
1,002 linear feet of 30-inch sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$6.25 6,262.50
1 storm overflow connection No. 1, laid complete, including all incidentals and appurtenances; per storm overflow connection No. 1, \$180 180.00
1 storm overflow connection No. 2, laid complete, including all incidentals and appurtenances; per storm overflow connection No. 2, \$116 116.00
1 storm overflow connection No. 3, laid complete, including all incidentals and appurtenances; per storm overflow connection No. 3, \$194 194.00
12 manholes complete, with standard iron heads and covers, including all incidentals and appurtenances; per manhole, \$70 840.00
222,000 feet, B. M., of sheeting and bracing, driven and left in place complete, including all incidentals and appurtenances; per thousand feet, B. M., \$18 3,996.00
13,500 feet, B. M., of foundation planking, laid in place complete, including all incidentals and appurtenances; per thousand feet, B. M., \$25 337.50

The Engineer's estimate is as follows:

275 cubic yards excavation to subgrade.
30 linear feet bluestone heading stones set in concrete.
170 cubic yards concrete.
1,235 square yards asphalt pavement (5 years maintenance).
Time allowed, 25 working days. Security required, \$900.

NO. 8. FOR REGULATING, CURBING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF 59TH ST. FROM 13TH AVE. TO 14TH AVE.

The Engineer's estimate is as follows:

820 cubic yards excavation.
20 cubic yards fill (not to be bid for).
20 linear feet old curbstone reset in concrete.
340 linear feet new curbstone set in concrete.
130 linear feet bluestone heading stones set in concrete.
415 cubic yards concrete.
2,490 square yards asphalt pavement (5 years maintenance).
Time allowed, 30 working days. Security required, \$2,000.

NO. 9. FOR REGULATING, CURBING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF 62ND ST. FROM 19TH AVE. TO 20TH AVE.

The Engineer's estimate is as follows:

715 cubic yards excavation to subgrade.
120 linear feet bluestone heading stones set in concrete.
100 linear feet cement curb (1 year maintenance).
450 cubic yards concrete.
2,705 square yards asphalt pavement (5 years maintenance).
Time allowed, 30 working days. Security required, \$2,000.

NO. 10. FOR REGULATING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF 66TH ST. FROM 13TH AVE. TO NEW UTRECHT AVE.

The Engineer's estimate is as follows:

1,135 cubic yards excavation to subgrade.
760 cubic yards concrete.
4,545 square yards asphalt pavement (5 years maintenance).
Time allowed, 30 working days. Security required, \$3,500.

NO. 11. FOR REGULATING AND PAVING WITH PERMANENT ASPHALT PAVEMENT ON A 6-INCH CONCRETE FOUNDATION THE ROADWAY OF 80TH ST. FROM 5TH AVE. TO 6TH AVE.

The Engineer's estimate is as follows:

710 cubic yards excavation to subgrade.
85 linear feet bluestone heading stones set in concrete.
475 cubic yards concrete.
2,835 square yards asphalt pavement (5 years maintenance).
Time allowed, 30 working days. Security required, \$2,000.

NO. 12. FOR REGULATING AND PAVING, INCLUDING THE RESTORATION OF THE PAVEMENT, ETC., REMOVED AND DAMAGED BY J. F. COGAN CO. IN CONNECTION WITH THE CONSTRUCTION OF THE SEWER IN CONSELVEA ST. FROM HUMBOLDT ST. TO GRAHAM AVE. ETC. IN THE ROADWAYS OF N. 12TH ST. FROM EAST RIVER TO UNION AVE.; UNION AVE. FROM N. 12TH ST. TO ROEBLING ST.; RICHARDSON ST. FROM UNION AVE. TO GRAHAM AVE.; GRAHAM AVE. FROM RICHARDSON ST. TO CONSELVEA ST. AND CONSELVEA ST. FROM GRAHAM AVE. TO HUMBOLDT ST.

The Engineer's estimate is as follows:

3,220 linear feet old curbstone reset in concrete.
1,795 linear feet new curbstone set in concrete.
25 linear feet bluestone heading stones set in concrete.
240 linear feet granite heading stones set in concrete.
285 square feet granite crosswalks relaid.
2,615 cubic yards concrete.
11,310 square yards asphalt pavement.
295 square yards grade 1 granite pavement with joint filler of cement grout.
205 square yards grade 2 granite pavement with joint filler of cement grout.
3,930 square yards grade 2 granite pavement with joint filler of coal tar pitch and gravel.
1,970 square yards grade 2 granite pavement on a sand foundation with joint filler of sand.

Time allowed, 45 working days. Security required, \$18,000.

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, Borough of Brooklyn, Room 502, No. 50 Court St., Brooklyn.

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WEDNESDAY, JUNE 7, 1916.

NO. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWERS IN HOWARD AVE. FROM POINT ABOUT 250 FEET SOUTH OF HERKIMER ST. TO HERKIMER ST. AND IN HERKIMER ST. FROM HOWARD AVE. TO RALPH AVE. AND IN RALPH AVE. FROM HERKIMER ST. TO CHAUNCEY ST.

The Engineer's preliminary estimate of the quantities is as follows:

1,145 linear feet of 42-inch sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$9.20 \$10,534.00
1,002 linear feet of 30-inch sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$6.25 6,262.50
1 storm overflow connection No. 1, laid complete, including all incidentals and appurtenances; per storm overflow connection No. 1, \$180 180.00
1 storm overflow connection No. 2, laid complete, including all incidentals and appurtenances; per storm overflow connection No. 2, \$116 116.00
1 storm overflow connection No. 3, laid complete, including all incidentals and appurtenances; per storm overflow connection No. 3, \$194 194.00
12 manholes complete, with standard iron heads and covers, including all incidentals and appurtenances; per manhole, \$70 840.00
222,000 feet, B. M., of sheeting and bracing, driven and left in place complete, including all incidentals and appurtenances; per thousand feet, B. M., \$18 3,996.00
13,500 feet, B. M., of foundation planking, laid in place complete, including all incidentals and appurtenances; per thousand feet, B. M., \$25 337.50

The time allowed for the completion of the work and full performance of the contract will be sixty (60) working days.

The amount of security required will be Four Thousand Dollars (\$4,000).

NO. 3. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED TO CONSTRUCT A SEWER IN ROCKAWAY AVE. FROM FULTON ST. TO CHAUNCEY ST.

The Engineer's preliminary estimate of the quantities is as follows:

763 linear feet of 30-inch sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$5.50 \$4,196.50
282 linear feet of 24-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$6.50 1,833.00
460 linear feet of 18-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$4 1,840.00
120 linear feet of 12-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$2.50 300.00
12 manholes complete, with standard iron heads and covers, including all incidentals and appurtenances; per manhole, \$50 600.00
13 house connection drains, reconnected, complete, with all pipes and fittings, including all incidentals and appurtenances; per reconnection, \$5 65.00
12 sewer basins reconnected, complete, with iron basin hoods, connecting culverts and all incidentals and appurtenances; per reconnection, \$50 600.00
10,000 feet, B. M., of foundation planking, pile capping and stringers, laid in place complete, including all incidentals and appurtenances; per thousand feet, B. M., \$25 250.00
85,000 feet, B. M., of sheeting and bracing, driven and left in place complete, including all incidentals and appurtenances; per thousand feet, B. M., \$18 1,530.00
100 cubic yards of Class "B" concrete, laid in place complete, including extra excavation and all incidentals and appurtenances; per cubic yard, \$7 700.00
10 barrels Portland cement, furnished and delivered, in place in the work, including all incidentals and appurtenances; per barrel, \$1.50 15.00
1,000 linear feet of piles, driven in place complete, including all incidentals and appurtenances; per linear foot, \$0.40 400.00
2,000 pounds of steel rods, in place complete, including all incidentals and appurtenances; per pound, \$0.03 60.00

Total \$8,852.00

The time allowed for the completion of the work and full performance of the contract will be thirty (30) working days.

The amount of security required will be Four Thousand Dollars (\$4,000).

NO. 4. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWER IN W. 11TH ST. FROM AVENUE Q TO 86TH ST.

The Engineer's preliminary estimate of the quantities is as follows:

398 linear feet of 114-inch storm sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$40 \$15,920.00
5 linear feet of 102-inch storm

110 cubic yards of concrete, Class "B," laid in place complete, including extra excavation and all incidentals and appurtenances; per cubic yard, \$7 770.00

10 barrels of Portland cement, furnished and delivered, in place in the work, including all incidentals and appurtenances; per barrel, \$1.50 15.00

2 sewer basins, reconnected complete, with iron basin hoods, connecting culverts and all incidentals and appurtenances; per reconnection, \$50 100.00

1,000 linear feet of piles, driven in place, complete, including all incidentals and appurtenances; per linear foot, \$0.40 400.00

2,000 pounds steel bars, in place complete, including all incidentals and appurtenances; per pound, \$0.03 60.00

Total \$23,805.00

The time allowed for the completion of the work and full performance of the contract will be one hundred and twenty (120) working days.

The amount of security required will be Ten Thousand Dollars (\$10,000).

NO. 2. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWERS IN SARATOGA AVE. FROM HULL ST. TO CHAUNCEY ST.

The Engineer's preliminary estimate of the quantities is as follows:

252 linear feet of 42-inch sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$6.25 \$1,575.00
783 linear feet of 30-inch sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$5 3,915.00
9 linear feet of 12-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$3 27.00
1 manhole, Class "D," complete, with standard iron head and special cover, including all incidentals and appurtenances; per manhole, \$50 50.00
8 manholes, Class "E," complete, with standard iron heads and covers, including all incidentals and appurtenances; per manhole, \$50 400.00
4 sewer basins reconnected, complete, with iron basin hoods, connecting culverts and all incidentals and appurtenances; per reconnection, \$50 200.00
20 house connection drains reconnected, complete, with all pipes and fittings, including all incidentals and appurtenances; per reconnection, \$5 100.00
50,000 feet, B. M., of sheeting and bracing, driven and left in place complete, including all incidentals and appurtenances; per thousand feet, B. M., \$18 900.00
6,000 feet, B. M., of foundation planking, laid in place complete, including all incidentals and appurtenances; per thousand feet, B. M., \$25 150.00
180 linear feet of 8-inch house connection drain, laid complete, including all incidentals and appurtenances; per linear foot, \$2 360.00
100 cubic yards of Class "B" concrete, laid in place complete, including extra excavation and all incidentals and appurtenances; per cubic yard, \$7 700.00
10 barrels of Portland cement, furnished and delivered, in place in the work, including all incidentals and appurtenances; per barrel, \$1.50 15.00
1,000 linear feet of piles, driven in place complete, including all incidentals and appurtenances; per linear foot, \$0.40 400.00
2,000 pounds steel bars, in place complete, including all incidentals and appurtenances; per pound, \$0.03 60.00

Total \$8,852.00

The time allowed for the completion of the work and full performance of the contract will be thirty (30) working days.

The amount of security required will be Four Thousand Dollars (\$4,000).

sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$37.....	185.00
1,711 linear feet of 78-inch storm sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$20.....	34,220.00
842 linear feet of 72-inch storm sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$16.50.....	13,893.00
20 linear feet of 36-inch storm sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$7.....	140.00
39 linear feet of 24-inch pipe storm sewer, laid complete, including concrete cradle and all incidentals and appurtenances; per linear foot, \$3.25.....	126.75
920 linear feet of 66-inch combined sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$14.50.....	13,340.00
11 linear feet of 60-inch combined sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$12.50.....	137.50
51 linear feet of 42-inch combined sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$7.65.....	390.15
56 linear feet of 36-inch combined sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$6.65.....	372.40
15 linear feet of 24-inch pipe combined sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$3.50.....	52.50
51 linear feet of 22-inch pipe combined sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$3.30.....	168.30
38 linear feet of 12-inch pipe combined sewer, laid complete, including all incidentals and appurtenances; per linear foot, \$1.75.....	66.50
345 linear feet of 36-inch pipe sanitary sewer, laid complete, including concrete cradle and all incidentals and appurtenances; per linear foot, \$18.50.....	6,382.50
42 linear feet of 30-inch pipe sanitary sewer, laid complete, including concrete cradle and all incidentals and appurtenances; per linear foot, \$14.....	588.00
856 linear feet of 22-inch pipe sanitary sewer, laid complete, including concrete cradle and all incidentals and appurtenances; per linear foot, \$9.75.....	8,346.00
838 linear feet of 20-inch pipe sanitary sewer, laid complete, including concrete cradle and all incidentals and appurtenances; per linear foot, \$8.....	6,864.00
825 linear feet of 18-inch pipe sanitary sewer, laid complete, including concrete cradle and all incidentals and appurtenances; per linear foot, \$7.....	5,775.00
36 linear feet of 10-inch pipe sanitary sewer, laid complete, including concrete cradle and all incidentals and appurtenances; per linear foot, \$4.25.....	153.00
21 linear feet of 8-inch pipe sanitary sewer, laid complete, including concrete cradle and all incidentals and appurtenances; per linear foot, \$4.....	84.00
20 linear feet of 6-inch storm house connection drain, laid complete, including all incidentals and appurtenances; per linear foot, \$0.50.....	10.00
252 linear feet of 6-inch combined house connection drain, laid complete, including all incidentals and appurtenances; per linear foot, \$0.70.....	176.40
2,652 linear feet of 8-inch sanitary house connection drain, laid complete, including all incidentals and appurtenances; per linear foot, \$1.50.....	3,978.00
537 linear feet of stand pipes, complete, including concrete casing, covers, spouts, extra excavation and all incidentals and appurtenances; per linear foot, \$2.....	1,074.00
3 float chambers, complete, including all incidentals and appurtenances; per float chamber, \$250.....	750.00
3 drop manholes complete, with standard manhole heads and special covers, including all incidentals and appurtenances; per manhole, \$145.....	435.00
5 manholes on storm sewers, complete, with standard manhole heads and covers, including all incidentals and appurtenances; per manhole, \$45.....	405.00
7 manholes on combined sewers, complete, with standard manhole heads and covers, including all incidentals and appurtenances; per manhole, \$45.....	315.00
14 manholes on sanitary sewers, complete, with standard manhole heads and special covers, including all incidentals and appurtenances; per manhole, \$95.....	1,330.00
11 manholes on sanitary house connection drains, complete, with standard manhole heads and special covers, including all incidentals and appurtenances; per manhole, \$40.....	440.00
9 sewer basins complete, with either standard design, with iron pans or gratings, iron basin hoods, and connecting culverts, including all incidentals and appurtenances; per basin, \$115.....	1,035.00
130,000 feet, B. M., of foundation planking, pile capping and stringers, laid in place complete, including all incidentals and appurtenances; per thousand feet, B. M., \$30.....	3,900.00
300,000 feet, B. M., of sheet piling, driven in place complete, including all incidentals and appurtenances; per thousand feet, B. M., \$18.....	5,400.00
35,000 linear feet of piles, driven in place, complete, including all incidentals and appurtenances; per linear foot, \$0.35.....	12,250.00
20 cubic yards of concrete, Class "A," laid in place complete, including extra excavation and all incidentals and appurtenances; per cubic yard, \$8.....	160.00
20 cubic yards of concrete, Class "B," laid in place complete, including extra excavation and all incidentals and appurtenances; per cubic yard, \$7.50.....	150.00
10 barrels of Portland cement, furnished and delivered, in place in the work, including all incidentals and appurtenances; per barrel, \$1.75.....	17.50
12,000 pounds of steel bars, in place complete, including all incidentals and appurtenances; per pound, \$0.04.....	480.00

Total.....\$139,510.50
The time allowed for the completion of the work and full performance of the contract will be two hundred and fifty (250) working days. The amount of security required will be Sixty Thousand Dollars (\$60,000).
The foregoing Engineer's preliminary estimates of the total cost for the completed work are to be taken as the 100 per cent. basis and test for bidding. Proposals shall each state a single percentage of such 100 per cent. (such as 95 per cent., 100 per cent., or 105 per cent.) for which all materials and work called for in the proposed contract and the notices to bidders are to be furnished to the City. Such percentage as bid for each contract shall apply to all unit items specified in the Engineer's preliminary estimate to an amount necessary to complete the work described in the contract.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Sewers, 215 Montague st., Brooklyn.
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 the Borough of Brooklyn at Room No. 2, Borough Hall, Brooklyn, until 11 a. m., on

TUESDAY, JUNE 6, 1916.
FOR REGULATING AND PAVING WITH SECOND-HAND GRANITE PAVEMENT ON A SAND FOUNDATION, FOR A WIDTH NOT EXCEEDING 16 FEET, THE ROADWAYS OF SHELL RD. FROM THE INTERSECTION OF 86TH ST. AND AVENUE X TO W. 6TH ST., AND W. 6TH ST. FROM SHELL RD. TO NEPTUNE AVENUE.
5,480 square yards second-hand granite pavement with joint filler of sand.
Time allowed, 30 working days. Security required, \$1,700.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per square yard or other unit of measure, by which the bids will be tested. The bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Highways, Borough of Brooklyn, Room 502, 50 Court St., Brooklyn.
L. H. POUNDS, President.
Dated, May 20, 1916.
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 Brooklyn at Room 2, Borough Hall, Brooklyn, until 11 a. m., on

WEDNESDAY, JUNE 7, 1916.
NO. 1. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR GENERAL CONSTRUCTION, INCLUDING ELECTRIC WORK, FOR THE RECONSTRUCTION AND IMPROVEMENT OF THE KINGS COUNTY COURT HOUSE, AT FULTON AND LIVINGSTON STS., BOROUGH OF BROOKLYN.

Time allowed for the completion of the work and the full performance of the contract is within five calendar months.

The amount of security required for the faithful performance of the contract is Two Hundred and Fifty Thousand (\$250,000) Dollars.

NO. 2. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR PLUMBING AND GASFITTING WORK FOR THE RECONSTRUCTION AND IMPROVEMENT OF THE KINGS COUNTY COURT HOUSE, AT FULTON AND LIVINGSTON STS., BOROUGH OF BROOKLYN.

Time allowed for the completion of the work and full performance of the contract is within five calendar months.

The amount of security required for the faithful performance of the contract is Ten Thousand (\$10,000) Dollars.

NO. 3. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR HEATING AND VENTILATING WORK FOR THE RECONSTRUCTION AND IMPROVEMENT OF THE KINGS COUNTY COURT HOUSE, AT FULTON AND LIVINGSTON STS., BOROUGH OF BROOKLYN.

Time allowed for the completion of the work and the full performance of the contract is within five calendar months.

The amount of security required for the faithful performance of the contract is Twenty-five Thousand (\$25,000) Dollars.

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

Blank forms and further information may be obtained and the plans and drawing may be seen at the Bureau of Public Buildings and Offices, Room 1003, No. 50 Court st., Brooklyn.
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 the Borough of Brooklyn at Room 2, Borough Hall, Brooklyn, until 11 a. m., on

WEDNESDAY, JUNE 7, 1916.
FOR FURNISHING ALL THE LABOR AND MATERIALS AND CONSTRUCTING, COMPLETE, SUPERSTRUCTURES OF THE SEWAGE PUMPING STATION AT MORGAN AVE. AND MASPETH AVE; SECTION OF STORM SEWERS AND SANITARY SEWERS IN MASPETH AVE. FROM NEWTOWN CREEK TO VANDERVOORT AVE.; SANITARY SEWER IN MASPETH AVE. FROM VANDERVOORT AVE. TO MORGAN AVE.; COMBINED SEWERS IN CONSELVEA ST.; IN CONSELVEA ST. FROM MASPETH AVE. TO HUMBOLDT ST.; STORM SEWER IN GARDNER AVE. FROM MASPETH AVE. TO THE WEST BRANCH OF NEWTOWN CREEK, KNOWN AS ENGLISH KILLS, A SYPHON UNDER NEWTOWN CREEK AT MASPETH AVE. FROM THE BOROUGH OF BROOKLYN TO THE BOROUGH OF QUEENS, TOGETHER WITH A PUMPING STATION AND ALL APPURTENANCES TO BE LOCATED ON THE SITE TO BE ACQUIRED BY THE CITY ON THE EAST-ERLY SIDE OF MORGAN AVE. BETWEEN MASPETH AVE. AND BULLION ST. AND A FORCE MAIN AND ALL APPURTENANCES AT MASPETH AND MORGAN AVES.

The work to be performed and materials to be supplied are as follows:

Furnishing and delivering all labor and materials of every kind and description required for constructing and erecting complete the superstructures of the Sewage Pumping Station, embracing the sewage pumping station above the foundation walls, superstructure surmounting the Screen Chamber and Suction Well, and the completion of the interiors thereof.

The time allowed for the completion of the work and the full performance of the contract will be one hundred and twenty (120) working days.

The amount of security required is Twenty-five Thousand Dollars (\$25,000).
The bids will be compared and the contract will be awarded at a lump or aggregate sum.

Blank forms and further information may be obtained and the specifications and plans may be seen at the office of the Bureau of Sewers, 215 Montague street, Brooklyn.
L. H. POUNDS, President.
See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF DOCKS AND FERRIES.
Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Docks at his office, Pier "A," foot of Battery Place, North River, Manhattan, until 12 noon on

THURSDAY, JUNE 15, 1916.
Borough of Manhattan.

CONTRACT NO. 1519.
FOR REPAIRING THE PIER AT THE FOOT OF W. 55TH ST., NORTH RIVER, BOROUGH OF MANHATTAN, AND BUILDING A FREIGHT SHED ON THE PIER AND THE BULKHEAD ADJACENT, WITH APPURTENANCES, INCLUDING HEATING AND PLUMBING.

The time allowed for the completion of the work in each class and the amount of security required in each class are as follows:

Classes 1, 2 and 3—For repairing the pier, laying concrete surface, constructing pile foundations, constructing concrete foundations, building freight shed with appurtenances, and for laying an asphalt pavement over the deck of the pier and on the bulkhead, the time will be four hundred (400) calendar days and the security will be \$129,000.

Class 4—For installing a heating system within the freight shed, the time will be ninety (90) calendar days and the security will be \$3,800.

Class 5—For installing plumbing work within the freight shed, the time will be ninety (90) calendar days and the security will be \$3,800.

Bidders shall state both in writing and in figures a total price on each and every contract upon which they desire to bid. Classes 1, 2 and 3 together form one contract, and, in addition to the total bid on these three classes combined, bidders on classes 1, 2 and 3 must also furnish a price for each of the three classes separately.

Classes 4 and 5 each form a separate and distinct contract. Award on any of the three contracts, if made, will be to the bidder whose price is the lowest for doing all of the work in the particular contract 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 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 2, 1916.
See General Instructions to Bidders on last page, last column, of the "City Record."

PUBLIC SERVICE COMMISSION.

Invitation to Contractors.

For the Supply of Structural Steel for Use in the Construction of Rapid Transit Railroads.

SEALED BIDS OR PROPOSALS FOR THE supply of structural steel for use in the construction of rapid transit railroads will be received by the Public Service Commission for the First District on behalf of the City of New York at the office of said Commission at No. 120 Broadway, Borough of Manhattan, New York City, until the 5th day of June, 1916, at eleven-thirty (11.30) o'clock a. m., at which time and place or at a later date to be fixed by the Commission the proposals will be publicly opened.

The contractor must be prepared to deliver the structural steel or any part thereof within six months after the drawings for such structural steel or such part thereof are furnished to the contractor, and said Commission will furnish the drawings for all such structural steel to the contractor on or before August 1, 1916, except as otherwise provided in the form of contract.

A full description of the structural steel and other requirements, provisions and specifications are given in the Information for Contractors and in the form of contract and specifications, contract drawings, bond and contractor's proposal, which are to be deemed a part of this invitation and copies of which may be inspected and purchased at said office of said Commission.

The receipt of bids will be subject to the regulations specified in said "Information for Contractors."
New York, May 18, 1916.
PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, By OSCAR S. STRAUS, Chairman.
JAMES R. WALKER, Secretary.

BOROUGH OF QUEENS.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Queens at 3d floor, Borough Hall, 5th st. and Jackson ave., L. I. City, until 11 a. m., on

WEDNESDAY, JUNE 7, 1916.
NO. 1. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS WHERE NOT ALREADY LAID TO GRADE AND IN GOOD CONDITION, TOGETHER WITH ALL WORK INCIDENTAL THERETO, IN FRESH POND RD. FROM WOODBINE ST. TO FLUSHING AVE., SECOND WARD OF THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be one hundred and fifty working days.

The amount of security required will be Fifty Thousand (\$15,000) Dollars.
The Engineer's estimate of the quantities is as follows:

35,000 cubic yards of earth excavation.
100 cubic yards of rock excavation.
8,000 linear feet new bluestone curb.
200 linear feet old curb, redressed and reset.
30,000 square feet of cement sidewalk, and one (1) year's maintenance.

100 cubic yards of concrete.
1,000 square yards of granite block pavement relaid.
1,000 square yards of stone gutters, furnished and laid.

372 linear feet 12" vitrified pipe, in place.
2 12-inch vitrified pipes, 1/2 bends, in place.
3 new catch basins (Highway Standard).
4 trees to be replanted, not to be bid for.
3 trees to be removed and replaced with new trees, not to be bid for.

NO. 2. FOR REGULATING AND PAVING WITH A PERMANENT PAVEMENT OF SHEET ASPHALT UPON A CONCRETE FOUNDATION SIX (6) INCHES IN THICKNESS FOR A WIDTH OF 20 FEET CENTRALLY LOCATED, TOGETHER WITH ALL WORK INCIDENTAL THERETO, IN LEFFERTS AVE. FROM LIBERTY AVE. TO ROCKAWAY BOULEVARD, FOURTH WARD OF THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be forty (40) working days.
The amount of security required will be Ten Thousand (\$10,000) Dollars.

The Engineer's estimate of the quantities is as follows:

2,000 cubic yards earth excavation, not to be bid for.
1,500 cubic yards of concrete, in place, including 8-inch shoulders.
8,650 square yards of sheet asphalt pavement (laid outside of the railroad franchise area, including binder course, and five (5) years maintenance).

NO. 3. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS (WHERE NOT ALREADY DONE TO GRADE AND IN GOOD CONDITION), TOGETHER WITH ALL WORK INCIDENTAL THERETO, IN BURNSIDE AVE. FROM 47TH ST. TO 50TH ST., SECOND WARD, BOROUGH OF

QUEENS, AND FOR CONSTRUCTING APPROACHES THERETO AS FOLLOWS: GRADING FOR A WIDTH OF 50 FEET FOR GIVEN DISTANCE AND FOR GIVEN TEMPORARY GRADES FROM BURNSIDE AVE. IN 49TH ST. SOUTHERLY ASCENDING 8% FOR ABOUT 70 FEET, NORTHERLY DESCENDING 5% FOR ABOUT 50 FEET; 50TH ST., SOUTHERLY ASCENDING 10% FOR ABOUT 165 FEET, NORTHERLY DESCENDING 5% FOR ABOUT 20 FEET.

The time allowed for doing and completing the above work will be ninety (90) working days. The amount of security required will be Forty-five Hundred (\$4,500) Dollars.

The Engineer's estimate of the quantities is as follows:

18,000 cubic yards of earth excavation.
20 cubic yards of rock excavation.
1,500 linear feet of cement curb with steel nosing and one (1) year's maintenance.
6,600 square feet of cement sidewalk and one (1) year's maintenance.

10 cubic yards of concrete.
300 square yards stone block gutters, furnished and laid.

NO. 4. FOR REGULATING, GRADING, CURBING, LAYING CROSSWALKS AND SIDEWALKS (WHERE NOT ALREADY LAID TO GRADE AND IN GOOD CONDITION), AND PAVING WITH A PRELIMINARY PAVEMENT OF ASPHALTIC CONCRETE ON A CONCRETE FOUNDATION 4 1/2 INCHES IN THICKNESS, TOGETHER WITH ALL WORK INCIDENTAL THERETO, FOR A WIDTH OF TWENTY (20) FEET CENTRALLY LOCATED, AND ALSO BETWEEN SAID CENTRAL STRIP AND CIRCULAR CURVES CONCENTRIC WITH AND EIGHT (8) FEET DISTANT FROM CURB LINES OF TERMINAL CURVES, IN COLUMBIA AVE., FROM QUEENS BOULEVARD TO LABEL HILL BOULEVARD, SECOND WARD OF THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be thirty (30) working days. The amount of security required will be Fifteen Hundred (\$1,500) Dollars.

The Engineer's estimate of the quantities is as follows:

50 cubic yards of earth excavation.
1,200 cubic yards of embankment.
510 linear feet of cement concrete curb with steel nosing, furnished and set and one year's maintenance.
2,400 square feet of cement sidewalk, furnished and laid, and one (1) year's maintenance.

120 cubic yards of concrete, in place, including 8-inch shoulders.
800 square yards of asphaltic concrete pavement, with five (5) years maintenance.
400 square yards of stone block gutters, furnished and laid.

60 linear feet of 12-inch cast iron pipe, in place.
NO. 5. FOR REGULATING AND GRADING, TOGETHER WITH ALL WORK INCIDENTAL THERETO, IN LIBERTY AVE., FROM 17TH ST. (BRIGGS AVE.) TO LEFFERTS AVE. AND IN LEFFERTS AVE., FROM LIBERTY AVE. TO A LINE ABOUT 180 FEET SOUTHERLY THEREOF; ALSO FOR REGULATING AND GRADING TO A TEMPORARY GRADE RISING AT THE RATE OF 5% FROM LEFFERTS AVE. TO AN INTERSECTION WITH THE SURFACE ABOUT 75 FEET EASTERLY THEREOF, IN LIBERTY AVE. ALSO FOR LAYING SIDEWALKS WHERE NECESSARY TOGETHER WITH ALL WORK INCIDENTAL THERETO, IN LEFFERTS AVE. FROM LIBERTY AVE. TO A LINE ABOUT 180 FEET SOUTHERLY THEREOF, FOURTH WARD, IN ACCORDANCE WITH SECTION 435 OF THE CHARTER.

The time allowed for doing and completing the above work will be twenty (20) working days. The amount of security required will be Six Hundred (\$600) Dollars.

The Engineer's estimate of the quantities is as follows:

1,800 cubic yards earth excavation.
2 cubic yards rock excavation.
2,100 square feet of cement sidewalk, and one (1) year's maintenance.
9 trees to be removed, not to be bid for.

The bidder must state the price of each item or article contained in the specification or schedule herein contained or hereafter annexed, per square yard, linear foot or other unit of measure, by which the bids will be tested. Bids will be compared and each contract awarded at a lump or aggregate sum. Blank forms may be obtained and the plans or drawings may be seen at the office of the President of the Borough of Queens.
Dated, May 25, 1916.
m25.17 MAURICE E. CONNOLLY, President.
See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF PUBLIC CHARITIES.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities, 10th floor, Municipal Building, Manhattan, until 10.30 a. m., on

TUESDAY, JUNE 13, 1916.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR A NEW HEATING SYSTEM IN THE PATHOLOGICAL LABORATORY.

A NEW HEATING SYSTEM IN THE TWO TOILET TOWERS, WOMEN'S DIVISION, MAIN HOSPITAL BUILDING.

ALTERATIONS TO HEATING SYSTEM IN SOLARIUM IN THE CITY HOSPITAL DISTRICT, BLACKWELL'S ISLAND, THE CITY OF NEW YORK.

The time allowed for doing and completing the entire work and the full performance of the contract is ninety (90) consecutive working days. The surety required will be One Thousand Dollars (\$1,000).

Certified check or cash in the sum of Fifty Dollars (\$50) must accompany bid.

The bidder will state one aggregate price for the whole work described and specified, as the contract is entire for a complete job.

Blank forms and further information may be obtained at the office of the Purchasing Agent of the Department, 10th floor, Municipal Building, Manhattan, where plans and specifications may be seen.

JOHN A. KINGSBURY, Commissioner.
Dated June 2, 1916.
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities, 10th floor, Municipal Building, Manhattan, until 10.30 a. m., on

TUESDAY, JUNE 6, 1916.
FOR THE SALE OF WASTE MATERIALS OF THE DEPARTMENT OF PUBLIC CHARITIES IN THE BOROUGH OF MANHATTAN AND BROOKLYN.
The time for the performance of the contract is one calendar year.
The amount of the security required for the performance of the contract is thirty (30) per cent. of the amount of the contract.
No bid will be considered unless it is accompanied by a deposit, which shall be in an amount not less than one and one-half (1 1/2) 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 highest bidder on each line or item, as stated in the specifications.

Blank forms and further information may be obtained at the office of the Purchasing Agent of the Department, 10th floor, Municipal Building, Manhattan.

JOHN A. KINGSBURY, Commissioner.
Dated May 29, 1916. m29,j6
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities, 10th floor, Municipal Building, Manhattan, until 10.30 a. m. on

WEDNESDAY, JUNE 7, 1916.
FOR FURNISHING AND DELIVERING 200,000 POUNDS OF BUTTER.

The time for the performance of the contract is up to and including July 8, 1916, as stated in the specifications.

The amount of the security required for the performance of the contract is thirty (30) per cent. of the amount of the bid.

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

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

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

Blank forms and further information may be obtained at the office of the Purchasing Agent of the Department, 10th floor, Municipal Building, Manhattan.

JOHN A. KINGSBURY, Commissioner.
Dated May 26, 1916. m26,j7
See General Instructions to Bidders on last page, last column, of the "City Record."

FIRE DEPARTMENT.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m. on

FRIDAY, JUNE 16, 1916.
FOR FURNISHING, DELIVERING AND INSTALLING OF UNDERGROUND LEAD-COVERED FEEDER CABLES IN THE SOUTHWEST SECTION OF THE BOROUGH OF MANHATTAN.

The time for the completion of the work and the full performance of the contract is one hundred and fifty (150) consecutive working days.

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

The bids will be compared and award, if made, will be to the lowest bidder for the entire contract.

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
m31,j16
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m. on

FRIDAY, JUNE 16, 1916.
FOR FURNISHING, DELIVERING AND INSTALLING OF UNDERGROUND LEAD-COVERED FEEDER CABLES IN THE SOUTHEAST SECTION OF THE BOROUGH OF MANHATTAN.

The time for the completion of the work and the full performance of the contract is one hundred and fifty (150) consecutive working days.

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

The bids will be compared and award, if made, will be to the lowest bidder for the entire contract.

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
m31,j16
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m. on

MONDAY, JUNE 12, 1916.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR FURNISHING, DELIVERING AND INSTALLING A NEW HEATING SYSTEM AT THE QUARTERS OF HOOK AND LADDER COMPANY NO. 13, LOCATED AT NO. 159 E. 87TH ST., BOROUGH OF MANHATTAN.

The time allowed for the completion of the work and the full performance of the contract is forty (40) consecutive working days.

The amount of security required for the performance of the contract is fifty per cent. (50%) of the amount of the bid or estimate.

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

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
m31,j12
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m. on

FRIDAY, JUNE 9, 1916.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REPAIRS AND ALTERATIONS TO THE QUARTERS OF HOOK AND LADDER COMPANY NO. 80, LOCATED AT NO. 232 RICHMOND AVE., PORT RICHMOND, BOROUGH OF RICHMOND.

The time for the completion of the work and the full performance of the contract is fifty (50) consecutive working days.

The amount of security required for the performance of the contract is fifty per cent. (50%) of the amount of the bid or estimate.

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

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
m27,j9
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m. on

friday, June 9, 1916.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REPAIRS TO APPARATUS FLOORS OF VARIOUS COMPANY QUARTERS IN ALL BOROUGHES.

The time allowed for the completion of the work and the full performance of the contract is fifty (50) consecutive working days.

The amount of security required for the performance of the contract is fifty per cent. (50%) of the amount of the bid or estimate.

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

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
m27,j9
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m. on

WEDNESDAY, JUNE 7, 1916.
FOR FURNISHING AND DELIVERING ONE (1) THREE-SECTION SEVENTY-FIVE-FOOT AERIAL HOOK AND LADDER TRUCK.

The time allowed for the performance of the contract is one hundred and twenty (120) calendar days.

The amount of security required for the performance of the contract is fifty per cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per truck, by which the bids will be tested.

The bids will be compared and the contract awarded to the lowest bidder for the entire contract.

Bids for supplies must be submitted in duplicate.

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
m23,j7
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m. on

MONDAY, JUNE 5, 1916.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED TO PAINT THE OUTSIDE OF HULLS AND MAKE REPAIRS TO FIREBOATS (NINE ITEMS).

The time for the completion of the work and the full performance of the contract is four (4) consecutive working days for each item.

The amount of security required for the performance of the contract is fifty per cent. (50%) of the amount of the bid or estimate.

Bids will be compared and award, if made, will be to the lowest bidder on each item.

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
m23,j5
See General Instructions to Bidders on last page, last column, of the "City Record."

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at his office, 11th floor, Municipal Building, Manhattan, until 10.30 a. m. on

MONDAY, JUNE 5, 1916.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REPAIRS TO THE WATER TUBE MARINE BOILER ON THE FIREBOAT "WILLIAM J. GAYNOR."

The time for the completion of the work and the full performance of the contract is thirty (30) calendar days after the delivery of the fireboat "William J. Gaynor" by the Fire Department to the contractor at the contractor's works.

The amount of security required for the performance of the contract is fifty per cent. (50%) of the amount of the bid or estimate.

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

Blank forms and further information may be obtained at the office of the Fire Department, 11th floor, Municipal Building, Manhattan.

ROBERT ADAMSON, Fire Commissioner.
m23,j5
See General Instructions to Bidders on last page, last column, of the "City Record."

BOARD OF ESTIMATE AND APPORTIONMENT.

Notices of Public Hearings.

PUBLIC IMPROVEMENT MATTERS.

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the lines of Fulton street between the Flatbush avenue Extension and Ashland place, Borough of Brooklyn, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on May 12, 1916 (Cal. No. 139), notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the lines of Fulton street between the Flatbush avenue Extension and Ashland place, Borough of Brooklyn, which proposed change is more particularly shown upon a map or plan bearing the signature of the Commissioner of Public Works of the Borough and dated February 29, 1916.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, the 9th day of June 1916, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 9th day of June, 1916.

Dated May 26, 1916.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. m26,j7

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to establish

lines and grades for Vista place between Bay Ridge avenue and 68th street, Borough of Brooklyn, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on May 12, 1916 (Cal. No. 141), notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by establishing lines and grades for Vista place between Bay Ridge avenue and 68th street, Borough of Brooklyn, which proposed change is more particularly shown upon a map or plan bearing the signature of the Commissioner of Public Works of the Borough and dated April 18, 1916.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, the 9th day of June 1916, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the City Record and the corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 9th day of June, 1916.

Dated May 26, 1916.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. m26,j7

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment of The City of New York, held on May 12, 1916 (Cal. No. 106), 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 Parade place from Parkside avenue to the south side of Woodruff avenue, in the Borough of Brooklyn, City of New York;

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the real property required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings;

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that the proposed area of assessment for benefit in these proceedings is as follows:

Beginning at the northeasterly corner of Parade Place and Woodruff Avenue; thence easterly along the northerly side of Woodruff Avenue 200 feet; thence southerly and parallel with Parade Place to the south line of Parkside Avenue; thence westerly along the south side of Parkside Avenue to a point 200 feet west of Parade Place; thence southerly and parallel with Parade Place to the north line of Woodruff Avenue extended; thence easterly along the north line of Woodruff Avenue extended to the point or place of beginning.

Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in the City of New York, Borough of Manhattan, in the City Hall, on Friday, June 9, 1916, at 10.30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in The City Record, and in the Corporation Newspapers for ten days, exclusive of Sundays and legal holidays, prior to Friday, June 9, 1916.

Dated May 26, 1916.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. m26,j7

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to establish lines and grades for Schofield street between Eastchester Bay and Long Island Sound, Borough of The Bronx, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on May 12, 1916 (Cal. No. 142), notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by establishing lines and grades for Schofield street between Eastchester Bay and Long Island Sound, Borough of The Bronx, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough and dated February 3, 1916.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 9th day of June, 1916.

Dated May 26, 1916.

JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. m26,j7

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to establish lines and grades for the street system in Section No. 226 of the Final Maps, Borough of Queens, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on May 12, 1916 (Cal. No. 144), notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by establishing lines and grades for the

street system within the territory bounded approximately by the boundary line of The City of New York, Eggert place, Enright place, Beach 24th street North, Lola place, Sunnyside street, Mott avenue, Granada place, Faber place, Plunkett street, Point Breeze place and Mott avenue (Section No. 226 of the Final Maps), Borough of Queens, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough and dated March 8, 1916.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 9th day of June, 1916.

Dated May 26, 1916.

JOSEPH HAAG, Secretary, Board of Estimate and Apportionment, Municipal Building. Telephone, 4560 Worth. m26,j7

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the lines and grades of the street system within the territory bounded by Fisk avenue, Calamus avenue, Decker street, Starling place, Kolyer street and Falkner street, and change the grade of LaForge street from Falkner street to Grand street, Borough of Queens, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on May 12, 1916 (Cal. No. 145), notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the lines and grades of the street system within the territory bounded by Fisk avenue, Calamus avenue, Decker street, Starling place, Kolyer street and Falkner street, and changing the grade of LaForge street from Falkner street to Grand street, Borough of Queens, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough and dated October 19, 1915.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 9th day of June, 1916.

Dated May 26, 1916.

JOSEPH HAAG, Secretary, Board of Estimate and Apportionment, Municipal Building. Telephone, 4560 Worth. m26,j7

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the lines and grades of the street system within the territory bounded by 5th street, Jackson avenue, 8th street, Broadway, 7th street, Polk avenue, 6th street and Broadway, Borough of Queens, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on May 12, 1916 (Cal. No. 146), notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the lines and grades of the street system within the territory bounded by 5th street, Jackson avenue, 8th street, Broadway, 7th street, Polk avenue, 6th street and Broadway, Borough of Queens, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough and dated April 5, 1916.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 9th day of June, 1916.

Dated May 26, 1916.

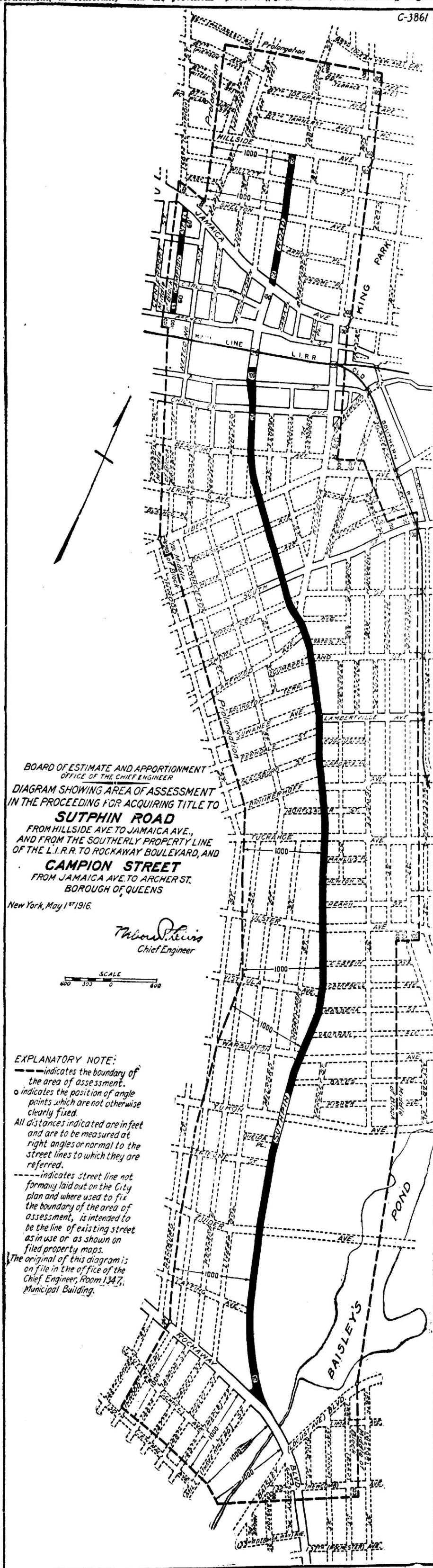
JOSEPH HAAG, Secretary, Board of Estimate and Apportionment, Municipal Building. Telephone, 4560 Worth. m26,j7

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on May 12, 1916 (Cal. No. 151), the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment is considering the advisability of amending the proceeding authorized by the said Board on July 30, 1914, for acquiring title to Sutphin road from Hillsdale avenue to Jamaica avenue, and from the southerly property line of the Long Island Railroad to Rockaway Boulevard; Campion street from Jamaica avenue to Archer street, together with the Public Park within the line of Sutphin road at its intersection with Rockaway Boulevard, Borough of Queens, so as to eliminate the said Public Park from the proceeding, and so as to conform to a map or plan adopted by the Board of Estimate and Apportionment March 31, 1916, in which provision is made for including within the lines of said Sutphin road a triangular area on the easterly side at the intersection with Jamaica avenue, and also to conform to a map or plan adopted by the Board on April 28, 1916, in which Sutphin road is given a position through the section south of Lamberville avenue, which will make its easterly line more nearly harmonize with the easterly line of an old street which has been in use for many years, and provision is made for discontinuing the public park located within the lines of Sutphin road at its intersection with Rockaway Boulevard; the proposed amended proceeding providing for the acquisition of title only to Sutphin road and Campion street between the limits named in the resolution of July

30, 1914, as they are now laid out upon the map or plan of the City of New York.
Resolved, that the Board of Estimate and Apportionment, in conformity with the provisions

of the Greater New York Charter, as amended, hereby gives notice that the modified area of assessment for benefit in this proposed amended proceeding is as shown on the following diagram:



Resolved, that this Board consider the proposed modified area of assessment at a meeting of the Board to be held in the City of New York, Borough of Manhattan, in the City Hall, on Friday, June 9, 1916, at 10:30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.
Resolved, that the Secretary of this Board

cause these resolutions and a notice to all persons affected thereby to be published in the City Record for ten days continuously, exclusive of Sundays and legal holidays, prior to June 9, 1916.
Dated May 26, 1916.
JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. m26,j7

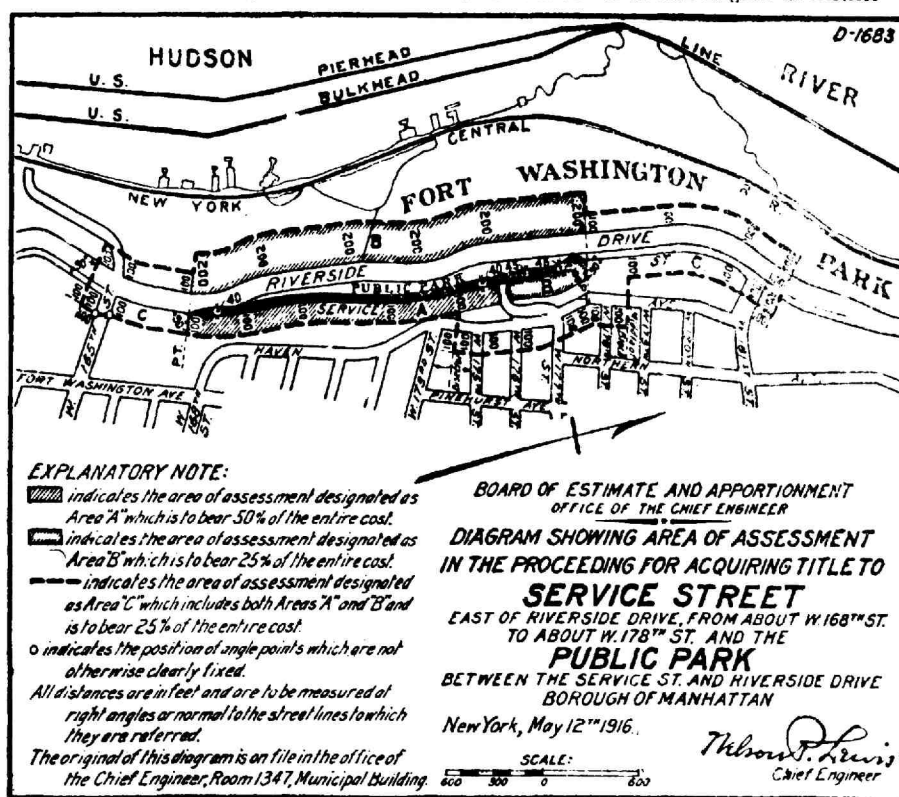
NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on May 12, 1916, the following resolutions were adopted:

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 the Service Street located on the easterly side of Riverside Drive extending from a point near West 168th street to a point near West 178th street, together with the Public Park intervening between the Service

Street and Riverside Drive, in the Borough of Manhattan, City of New York; and

Whereas, the Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the real property required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings.

Resolved, that the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that the Board proposes to place 50% of the entire cost and expense of the proceeding upon the area of assessment shown on the following diagram as District "A"; 25% of such cost and expense upon the area of assessment shown on said diagram as District "B," and the remaining 25% of such cost and expense upon the area of assessment shown on said diagram as District "C":



Resolved, that this Board consider the proposed action at a meeting of the Board to be held in the City of New York, Borough of Manhattan, in the City Hall, on Friday, June 9, 1916, at 10:30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, that the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the City Record for ten days continuously, exclusive of Sundays and legal holidays, prior to Friday, June 9, 1916.
Dated May 26, 1916.
JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. m26,j7

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the lines and grades of the street system within the territory bounded by the Brooklyn and Queens Borough Line, Jamaica avenue, Van Wyck avenue, Atlantic avenue, 112th street (Chestnut street, Grove avenue), 95th avenue (Chichester avenue), 78th street (Sapphire street) and Atlantic avenue, Borough of Queens, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10:30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on May 12, 1916 (Cal. No. 147), notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the lines and grades of the street system within the territory bounded by the Brooklyn and Queens Borough Line, Jamaica avenue, Van Wyck avenue, Atlantic avenue, 112th street (Chestnut street, Grove avenue), 95th avenue (Chichester avenue), 78th street (Sapphire street) and Atlantic avenue, Borough of Queens, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10:30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on May 12, 1916 (Cal. No. 147), notice of the adoption of which is hereby given, viz.:

(Sapphire street) and Atlantic avenue, Borough of Queens, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated January 24, 1916.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10:30 o'clock a. m.

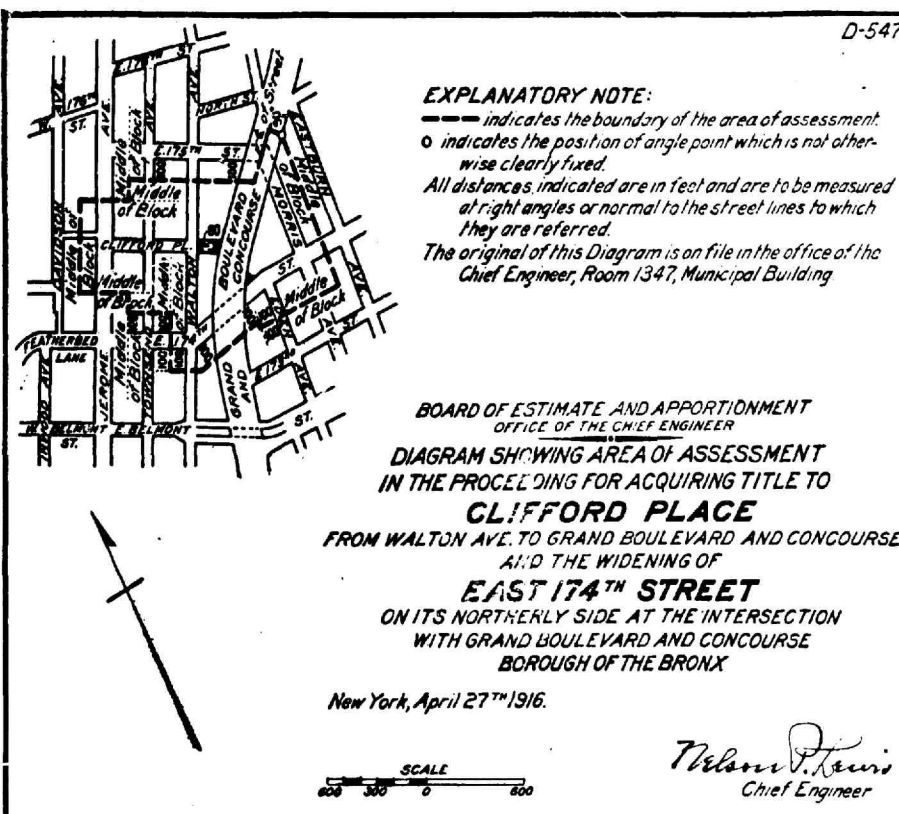
Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 9th day of June, 1916.
Dated May 26, 1916.
JOSEPH HAAG, Secretary, Board of Estimate and Apportionment, Municipal Building. Telephone, 4560 Worth. m26,j7

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on May 12, 1916 (Cal. No. 149), 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 East 174th street as widened on its northerly side at Grand Boulevard and Concourse, and Clifford place from Walton avenue to Grand Boulevard and Concourse, in the Borough of The Bronx, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the real property required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that the proposed area of assessment for benefit in these proceedings is as shown on the following diagram:



Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in the City of New York, Borough of Manhattan, in the City Hall, on Friday, June 9, 1916, at 10:30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in The City Record for ten days, exclusive of Sundays and legal holidays, prior to Friday, June 9, 1916.
Dated May 26, 1916.
JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. m26,j7

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on May 12, 1916 (Cal. No. 150), the following resolutions were adopted:

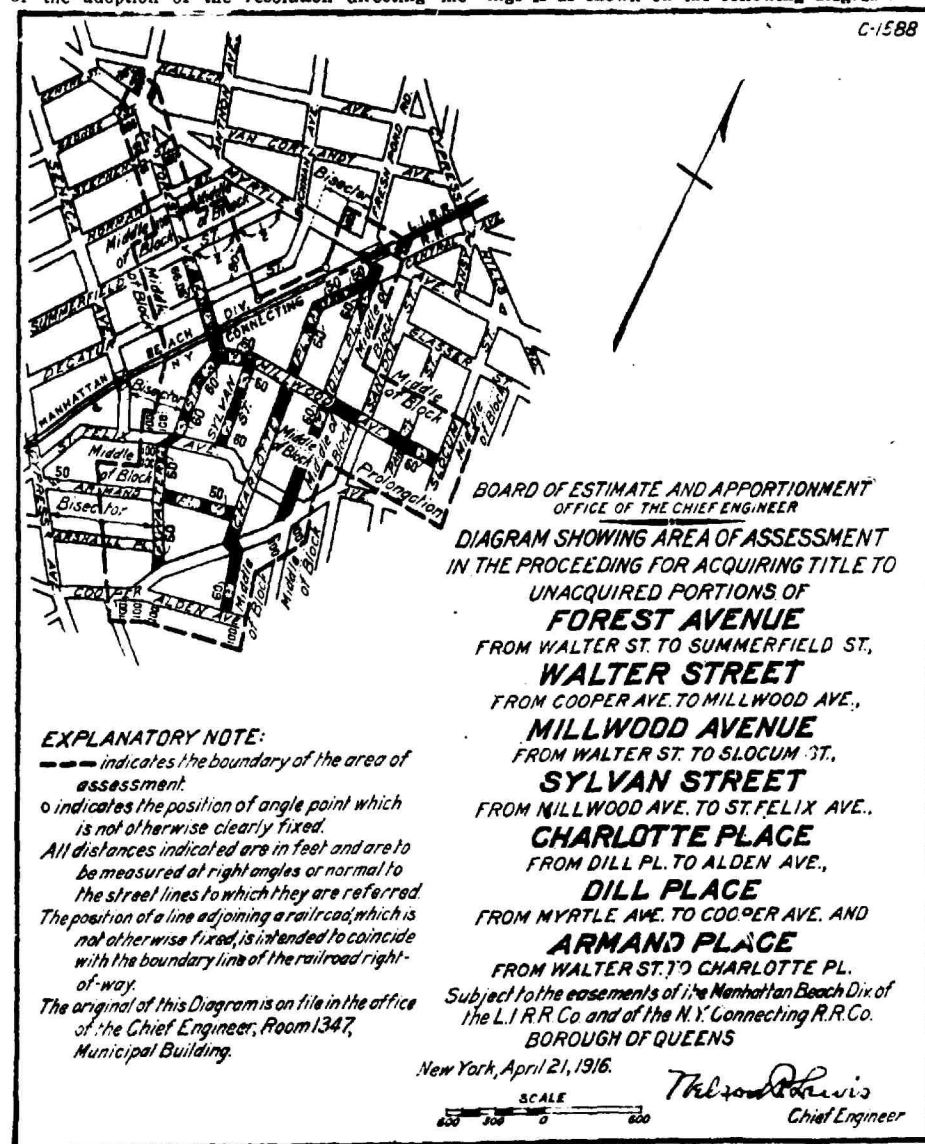
Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the real property required for the opening and extending of Armand place from Walter street to Charlotte place; Charlotte place from Dill place to Alden avenue; Dill place from Myrtle avenue to Cooper avenue; Forest avenue from Walter street to Summerfield street, subject to the easements of the Manhattan Beach Di-

vision of the Long Island Railroad Company and of the New York Connecting Railroad Company; Millwood avenue from Walter street to Slocum street; Sylvan street from Millwood avenue to St. Felix avenue; Walter street from Cooper avenue to Millwood avenue, in the Borough of Queens, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the

institution of proceedings to acquire title to the real property required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that the proposed area of assessment for benefit in these proceedings is as shown on the following diagram:



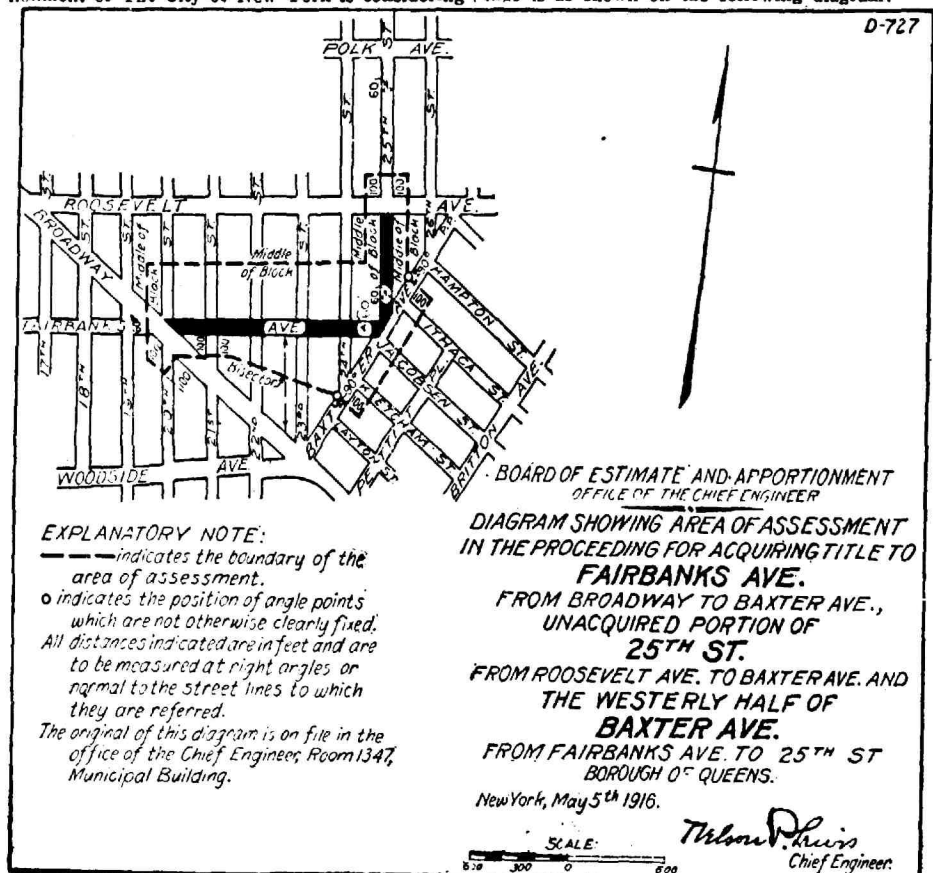
Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on Friday, June 9, 1916, at 10:30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in The City Record for ten days, exclusive of Sundays and legal holidays, prior to Friday, June 9, 1916.

Dated May 26, 1916.
JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. m26,j7

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on May 12, 1916 (Cal. No. 152), the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering



Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on Friday, June 9, 1916, at 10:30 o'clock a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in The City Record for ten days, exclusive of Sundays and legal holidays, prior to Friday, June 9, 1916.

Dated May 26, 1916.
JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. m26,j7

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to establish lines and grades for the street system in Section No. 189 of the Final Maps, Borough of Queens, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10:30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on May 12, 1916 (Cal. No. 143), notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to

the advisability of instituting proceedings to acquire title to the real property required for the opening and extending of Fairbanks avenue from Broadway to Baxter avenue, together with the unacquired portion of 25th street from Baxter avenue to Roosevelt avenue, and the westerly half of Baxter avenue from Fairbanks avenue to 25th street, in the Borough of Queens, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the real property required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of Section 973 of the Greater New York Charter, as amended, hereby gives notice that the proposed area of assessment for benefit in these proceedings is as shown on the following diagram:

interest so to do, proposes to change the map or plan of The City of New York so as to change the lines of Parade place between Parkside avenue and Cato avenue, Borough of Brooklyn, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, June 9, 1916, at 10:30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on May 12, 1916 (Cal. No. 140), notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the lines of Parade place between Parkside avenue and Cato avenue, Borough of Brooklyn, which proposed change is more particularly shown upon a map or plan bearing the signature of the Secretary of the Board of Estimate and Apportionment and dated May 8, 1916.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on Friday, the 9th day of June 1916, at 10:30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the City Record and the corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 9th day of June 1916.

Dated May 26, 1916.
JOSEPH HAAG, Secretary, Municipal Building. Telephone, 4560 Worth. m26,j7

BOARD OF WATER SUPPLY.

Proposals.

SEALED BIDS WILL BE RECEIVED BY the Board of Water Supply, at its offices, 22nd floor, Municipal Building, Park Row, Centre and Chambers sts., New York City, until 11 a. m. on **TUESDAY, JUNE 13, 1916,**

for **CONTRACT 144.**
FOR THE CONSTRUCTION OF TWO CONCRETE, STONE AND BRICK BUILDINGS, APPROXIMATELY 40 FEET BY 15 FEET BY 20 FEET, 820 SQUARE YARDS OF BRICK PAVEMENT, 600 FEET OF BALUSTRADE AND DOING MISCELLANEOUS WORK AT SILVER LAKE RESERVOIR, STATEN ISLAND.

The foundations for the buildings have been built and the pavement foundation will be built under another contract.

An approximate statement of the quantities of the various classes of work and further information are given in the Information for Bidders, forming part of the contract. At the above place and time the bids will be publicly opened and read. The award of the contract, if awarded, will be made by the Board as soon thereafter as practicable. The Board reserves the right to reject any and all bids.

A bond in the sum of Sixteen Thousand Dollars (\$16,000) 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 Eight Hundred Dollars (\$800).

Time allowed for the completion of the work is 6 consecutive 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, Board of Water Supply.
GEORGE FEATHERSTONE, Secretary. m19,j13

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.

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

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by Bellevue and Allied Hospitals, Department of Public Charities, Department of Correction, Department of Health, at Room 1230, Municipal Building, until 12 noon on

THURSDAY, JUNE 8, 1916,
FOR FURNISHING AND DELIVERING FLOUR.

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

The amount of security required is thirty (30) per cent. of the amount of the bid or estimate. No bid will be considered unless it is accompanied by a deposit. Such deposit shall be in an amount not less than one and one-half (1½) per cent. of the total amount of the bid.

The bidder will state the price per bbl., 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 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 1230, Municipal Building, Manhattan.

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

DEPARTMENT OF PUBLIC CHARITIES, JOHN A. KINGSBURY, Commissioner.
DEPARTMENT OF CORRECTION, BURDETTE G. LEWIS, Commissioner.
DEPARTMENT OF HEALTH, H. EMERSON, Commissioner. m26,j8

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 Bellevue and Allied Hospitals, Department of Public Charities, Department of Correction, Department of Health, at Room 1230, Municipal Building, until 12 noon on

THURSDAY, JUNE 8, 1916, FOR FURNISHING AND DELIVERING CANNED GOODS AND GROCERIES.

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

The amount of security required is thirty (30) per cent. of the amount of the bid or estimate. No bid will be considered unless it is accompanied by a deposit. Such deposit shall be in an amount not less than one and one-half (1½) per cent. of the total amount of the bid.

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

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

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

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

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

DEPARTMENT OF CORRECTION, BURDETTE G. LEWIS, Commissioner.

DEPARTMENT OF HEALTH, H. EMERSON, Commissioner. m26,j8

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 Bellevue and Allied Hospitals, Department of Public Charities, Department of Correction and Department of Health, at Room 1230, Municipal Building, Manhattan, until 12 noon on

MONDAY, JUNE 5, 1916,
FOR FURNISHING AND DELIVERING STOCK FRUITS AND VEGETABLES.

The time for the performance of the contract is on or before Dec. 31, 1916.

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

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

The bidder will state the price per pound, or other designated unit, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total and awards, if made, shall be to the lowest bidder on each 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 1230, Municipal Building, Manhattan.

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

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

DEPARTMENT OF CORRECTION, BURDETTE G. LEWIS, Commissioner.

DEPARTMENT OF HEALTH, H. EMERSON, Commissioner. m23,j5

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.

MUNICIPAL CIVIL SERVICE COMMISSION.

Notices of Examinations.

AMENDED NOTICE.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received by the Municipal Civil Service Commission, Municipal Building, Manhattan, New York City, from

THURSDAY, MAY 25, 1916, TO FRIDAY, JUNE 9, 1916,

for the position of

CHIEF ACTUARY (PENSIONS).

No applications delivered at the office of the Commission, by mail or otherwise, after 4 p. m., FRIDAY, JUNE 9, 1916, will be accepted.

Application blanks will be mailed upon request, provided a self-addressed stamped envelope or sufficient postage is enclosed to cover the mailing. The Commission will not guarantee the delivery of the same. Postage on applications forwarded by mail must be fully prepaid.

Applicants must be citizens of the United States. Persons who accept appointment must thereafter reside in the State of New York.

The requirement that every application shall bear the certificates of four reputable citizens whose residences or places of business are within the City of New York is waived for applicants for this examination whose previous occupation or employment has been wholly or in part outside the City of New York, and the said certificates will be accepted from persons resident or engaged in business elsewhere.

The subjects and weights of the examination are: Experience, 4; 75% required. Thesis, 3; 70% required. Oral, 3; 70% required.

A qualifying physical test will be given on the same day as the oral examination. Candidates will not be assembled for the written examination, but will be assembled for the oral examination.

Candidates failing to qualify in any part of the examination will not be summoned for the ensuing tests.

Applications for this examination must be filed on a special blank, Form C, with insert.

Duties: (1) To supervise the force engaged on actuarial work in the Commission on Pensions; (2) To outline the work, and to prepare actuarial formulae and valuations; (3) To direct the investigation of service, mortality and salary experience, and to devise adequate records showing such experience. (4) To prepare premium and contribution rates.

Requirements: (1) Experience: Extended experience in a supervisory capacity in the practice of actuarial science is required. In lieu of such experience, evidence that the candidate has independently prepared rates of contribution, actuarial valuations of existing pension funds or other actuarial data may be accepted. (2) Technical: A knowledge of those branches of higher mathematics employed in actuarial work and a familiarity with actuarial formulae for calculating reserves and contribution rates are required. Candidates must be at least 21 years of age on the closing date for the receipt of applications.

There is one vacancy in the Commission on Pensions at \$3,600 per annum. It is contemplated, however, to increase this rate of compensation within the salary limits of this grade, which are from \$4,140 to \$4,740 per annum. The term of the eligibility of the list resulting from this examination is fixed at not less than one year nor more than four years.

Persons who have filed applications for Chief Actuary (Pensions) since May 2, 1916, need not file further applications.

m25,j9 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, New York City, from
WEDNESDAY, MAY 24, 1916, TO THURSDAY, JUNE 8, 1916,
for the position of
CHIEF MUNICIPAL EXAMINER (PENSIONS).

No application delivered at the office of the Commission, by mail or otherwise, after 4 p. m. THURSDAY, JUNE 8, 1916, will be accepted. Application blanks will be mailed upon request, provided a self-addressed stamped envelope or sufficient postage is enclosed to cover the mailing. The Commission will not guarantee the delivery of the same. Postage on applications forwarded by mail must be fully prepaid.

Applicants must be citizens of the United States. Persons who accept appointment must thereafter reside in the State of New York.

The requirement that every application shall bear the certificates of four reputable citizens whose residences or places of business are within the City of New York is waived for applicants for this examination whose previous occupation or employment has been wholly or in part outside the City of New York, and the said certificates will be accepted from persons resident or engaged in business elsewhere.

The subjects and weights of the examination are: Experience, 4; 75% required. Thesis, 3; 70% required. Oral, 3; 70% required. A qualifying physical examination will be given on the same day as the oral examination. 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, but will be assembled for the oral and physical examinations.

Applications for this examination must be filed on a special blank, Form C, with insert.

Duties: (1) To supervise and be responsible for the entire staff engaged in pension work. (2) To conduct investigations of current pension systems operative in the City of New York and to formulate plans for the co-ordination thereof. (3) To construct reports showing in a scientific manner the condition of current pension funds for the information of the public and for possible legislative action. (4) To formulate plans in detail for the sound financial organization of pension funds, the determination of proper benefits, the distribution of costs and methods of the fund's administration.

Requirements: Experience: Extended experience in supervising the work of a staff engaged in the investigation of pension systems is required; in lieu of such experience, evidence that the candidate has independently investigated and reported on the condition of a large pension fund may be accepted. (2) Knowledge: Thorough knowledge of the history and development of foreign and domestic public pension funds, their organization, requirements and defects. Thorough understanding of the purpose, plan and scope of pension and retirement systems, public and private, with the requisite capacity to frame a sound pension plan and to provide for its proper administration.

Candidates must be at least 25 years of age on the closing date for the receipt of applications.

There is one vacancy in the Commission on Pensions at \$3,600 per annum. An increase in the rate of compensation is contemplated, within the salary limits of this grade, which range from \$4,140 to \$4,740 per annum.

The term of the eligibility of the list resulting from this examination is fixed at not less than one year nor more than four years.

Persons who have filed applications for Chief Municipal Examiner (Pensions) since May 4, 1916, need not file further applications.

PUBLIC NOTICE IS HEREBY GIVEN THAT

applications will be received, beginning at 1 p. m., **WEDNESDAY, JUNE 7, 1916,**

and will continue thereafter until further notice for the position of

PUMPMAN (LABOR CLASS, PART II), at the office of the Application Bureau, Room 1400, Municipal Building, Centre and Chambers sts., Manhattan.

Applicants must present themselves in person when filing applications on Wednesday, June 7, 1916, at 1 p. m., as no applications will be received by mail on that day. After Wednesday, June 7, 1916, at 1 p. m., application blanks will be mailed upon request, provided a self-addressed stamped envelope or proper postage is enclosed with the request, but the Commission will not guarantee the delivery of the same. Applications forwarded by mail upon which full postage is not prepaid will not be accepted.

Applicants must be citizens of the United States and residents of the State of New York. Proof of naturalization must accompany application.

Duties—The duties to be performed are to operate pumps and auxiliary equipment in deep shafts and tunnels in the new city aqueduct. It may be necessary to go down shafts to a depth of one thousand (1,000) feet and to stay underground continuously for a full working shift. Familiarity with pipe fitting methods is required. Physical and Oral examinations will be held.

Candidates must be not less than twenty-one years of age at the time of filing applications and must furnish evidence of two years' previous experience in work of this character.

The compensation is \$3.50 a day. There are six vacancies in the Board of Water Supply.

WEDNESDAY, JUNE 7, 1916.

BOROUGH OF MANHATTAN.

Proposals.

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

WEDNESDAY, JUNE 14, 1916,

NO. 1. FOR REGULATING AND REPAVING WITH SHEET ASPHALT ON A CONCRETE FOUNDATION THE ROADWAY OF MADISON AVE. (FROM CURB TO RAIL) FROM 72ND ST. TO 79TH ST., TOGETHER WITH ALL WORK INCIDENTAL THERETO.

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

Item 3—2,850 linear feet new 6-inch granite curbstone.

Item 3b—360 linear feet new 6-inch granite corner curbstone.

Item 4—300 linear feet old curb, redressed.

Item 5—140 square feet concrete sidewalk, Class A.

Item 6—10 linear feet granite headers.

Item 6a—10 linear feet temporary headerstone.

Item 7—1,150 cubic yards concrete outside of railroad area.

Item 8—5,850 square yards sheet asphalt pavement outside of railroad area.

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

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

Item 11—4 covers for sewer manholes.

Item 11a—4 rings for sewer manholes.

Item 12—3 cubic yards brick masonry.

Item 13—11 water manhole heads and covers, complete.

Item 14—700 linear feet platform flag, cut to line.

Work in Railroad Area.

Item 7a—140 cubic yards concrete.

Item 8a—850 square yards sheet asphalt pavement.

The time allowed for the full completion of

the work will be thirty-five (35) consecutive working days.

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

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

NO. 2. FOR REGULATING AND REPAVING WITH SHEET ASPHALT ON A CONCRETE FOUNDATION THE ROADWAY OF PARK AVE. FROM 72ND ST. TO 96TH ST. TOGETHER WITH ALL WORK INCIDENTAL THERETO.

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

Item 3—11,800 linear feet new 6-inch granite curbstone.

Item 3b—3,000 linear feet new 6-inch granite corner curbstone.

Item 4—260 linear feet old curb, redressed.

Item 5—11,500 square feet concrete sidewalk, Class A.

Item 6—10 linear feet granite headers.

Item 6a—10 linear feet temporary headerstone.

Item 7—8,860 cubic yards concrete outside of railroad area.

Item 8—48,600 square yards sheet asphalt pavement outside of railroad area.

Item 9—580 square yards sheet asphalt pavement in approaches.

Item 10—50 sewer manhole heads and covers, complete.

Item 11—15 covers for sewer manholes.

Item 11a—15 rings for sewer manholes.

Item 12—3 cubic yards brick masonry.

Item 13—60 water manhole heads and covers, complete.

Item 14—80 linear feet platform flag, cut to line.

Item 15—40,000 old paving blocks to be removed to Corporation Yard, 90th st. and Avenue A.

Item 16—50 cubic yards concrete for coping around parkways.

Work in Railroad Area.

Item 7a—10 cubic yards concrete.

Item 8a—70 square yards sheet asphalt pavement.

The time allowed for the full completion of the work will be one hundred (100) consecutive working days.

The amount of security required will be \$35,000, and the amount of deposit accompanying the bid shall be five (5) per cent. of the amount of security.

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

NO. 3. FOR REGULATING AND REPAVING WITH SHEET ASPHALT ON A CONCRETE FOUNDATION FROM CURB TO RAIL THE ROADWAY OF BROADWAY, WEST SIDE FROM 110TH ST. TO 121ST ST. AND EAST SIDE FROM 92ND ST. TO 121ST ST. TOGETHER WITH ALL WORK INCIDENTAL THERETO.

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

Item 3—8,830 linear feet new 6-inch granite curbstone.

Item 3b—610 linear feet new 6-inch granite corner curbstone.

Item 4—50 linear feet old curb, redressed.

Item 5—300 square feet concrete sidewalk, Class A.

Item 6—10 linear feet granite headers.

Item 6a—10 linear feet temporary headerstone.

Item 7—6,980 cubic yards concrete outside of railroad area.

Item 8—39,050 square yards sheet asphalt pavement outside of railroad area.

Item 9—290 square yards sheet asphalt pavement in approaches.

Item 10—20 sewer manhole heads and covers, complete.

Item 11—7 covers for sewer manholes.

Item 11a—7 rings for sewer manholes.

Item 12—5 cubic yards brick masonry.

Item 13—40 water manhole heads and covers, complete.

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

Work in Railroad Area.

Item 7a—410 cubic yards concrete.

Item 8a—2,400 square yards sheet asphalt pavement.

The time allowed for the full completion of the work will be ninety (90) consecutive working days.

The amount of security required will be \$25,000, and the amount of deposit accompanying the bid shall be five (5) per cent. of the amount of security.

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

NO. 4. FOR REGULATING AND REPAVING WITH SHEET ASPHALT ON A CONCRETE FOUNDATION THE ROADWAY OF 96TH ST. FROM PARK AVE. TO MADISON AVE. TOGETHER WITH ALL WORK INCIDENTAL THERETO.

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

Item 3—800 linear feet new 6-inch granite curbstone.

Item 3b—20 linear feet new 6-inch granite corner curbstone.

Item 4—10 linear feet old curb, redressed.

Item 5—10 square feet concrete sidewalk, Class A.

Item 6—10 linear feet granite headers.

Item 6a—10 linear feet temporary headerstone.

Item 7—510 cubic yards concrete.

Item 8—2,720 square yards sheet asphalt pavement.

Item 9—110 square yards sheet asphalt pavement in approaches.

Item 10—3 sewer manhole heads and covers, complete.

Item 11—1 cover for sewer manhole.

Item 11a—1 ring for sewer manhole.

Item 12—3 cubic yards brick masonry.

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

The time allowed for the full completion of the work will be twenty (20) consecutive working days.

The amount of security required will be \$2,000, and the amount of deposit accompanying the bid shall be five (5) per cent. of the amount of security.

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

NO. 5. FOR REGULATING AND PAVING WITH SHEET ASPHALT ON A CONCRETE FOUNDATION THE ROADWAY OF 171ST ST. FROM EASTERLY HOUSE LINE OF HAVEN AVE. TO A LINE ABOUT 12 FEET WEST OF THE WEST CURB LINE OF FORT WASHINGTON AVE. TOGETHER WITH ALL WORK INCIDENTAL THERETO.

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

Item 3—690 linear feet new 6-inch granite curbstone.

Item 4—10 linear feet old curb, redressed.

Item 6—10 linear feet granite headers.

Item 6a—10 linear feet temporary headerstone.

Item 7—240 cubic yards concrete.

Item 8—1,200 square yards sheet asphalt pavement.

The time allowed for the full completion of the work will be eighteen (18) consecutive working days.

The amount of security required will be \$900, and the amount of deposit accompanying the bid shall be five (5) per cent. of the amount of security.

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

NO. 6. FOR REGULATING AND REPAVING WITH WOOD BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF LIBERTY ST. FROM THE JUNCTION OF MAIDEN LANE AND LIBERTY ST. TO A POINT 40 FEET EAST OF EAST CURB LINE OF WILLIAM ST. TOGETHER WITH ALL WORK INCIDENTAL THERETO.

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

Item 3—250 linear feet new 6-inch granite curbstone.

Item 4—10 linear feet old curb, redressed.

Item 5—10 square feet concrete sidewalk, Class A.

Item 6—20 linear feet granite headers.

Item 6a—20 linear feet temporary headerstone.

Item 7—50 cubic yards concrete.

Item 8—210 square yards wood block pavement.

Item 9—10 square yards sheet asphalt pavement in approaches.

Item 10—1 sewer manhole head and cover, complete.

Item 11—1 cover for sewer manhole.

Item 11a—1 ring for sewer manhole.

Item 12—3 cubic yards brick masonry.

Item 13—1 water manhole head and cover, complete.

The time allowed for the full completion of the work will be eight (8) consecutive working days.

The amount of security required will be \$350, and the amount of deposit accompanying the bid shall be five (5) per cent. of the amount of security.

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

NO. 7. FOR CONSTRUCTING CONCRETE SIDEWALKS AND LAYING AND RELAYING FLAGGING IN VARIOUS STREETS AND ALLEYS AS ENUMERATED IN THE CONTRACT, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

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

Item 1—3,245 square feet concrete sidewalk (Class A), furnished and laid.

Item 2—65 linear feet new 5-inch bluestone curbstone.

Item 3—20 linear feet old curb, redressed.

Item 4—3,338 square feet new flagging, furnished and laid.

Item 5—2,910 square feet of old flagging relaid.

Item 6—4 cubic yards concrete.

The time allowed for the full completion of the work will be fifty (50) consecutive working days.

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

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per foot, yard or other unit of measure or article, by which the bid will be tested. Each contract, if awarded, will be awarded for the whole work at a lump sum.

Blank forms may be had and the plans and drawings may be seen at the offices of the Commissioner of Public Works, Municipal Building, Bureau of Highways, Room 2124, Manhattan.

MARCUS M. MARKS, President.

Dated June 3, 1916.

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 the offices of the Commissioner of Public Works, Room 2032, Municipal Building, Manhattan, until 2 p. m. on

MONDAY, JUNE 12, 1916,

NO. 1. FOR THE ALTERATION AND IMPROVEMENT TO SEWER IN GREENE ST. BETWEEN WASHINGTON PL. AND W. 4TH ST.

The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

Item 1—125 linear feet of 15-inch vitrified pipe sewer, complete.

Item 2—12 spurs for house connections.

Item 3—3 manholes, complete.

Item 4—5,000 feet B. M. of timber and plank for bracing and sheeting.

Item 5—1 cubic yard of concrete (Class A).

Item 6—1 cubic yard of brick masonry.

Item 7—16 cubic yards of extra earth excavation.

Item 8—105 square yards of roadway pavement, all kinds, for which double deposit is required.

The time allowed for constructing and completing the sewer and appurtenances will be fifteen (15) consecutive working days.

The amount of security required will be Seven Hundred Dollars (\$700), 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 SEWERS AT THE JUNCTION OF SOUTH ST. AND MARKET SLIP. The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

Item 1—84 linear feet of 4' 6" circular brick sewer, complete.

Item 2—123 linear feet of 4' 0" circular brick sewer, complete.

Item 3—5 linear feet of 4' 0" x 2' 8" brick sewer, complete.

Item 4—34 linear feet of 3' 6" x 2' 4" brick sewer, complete.

Item 5—7 spurs for house connections.

Item 6—2 manholes, complete.

Item 7—20,000 feet B. M. of timber and plank for bracing and sheeting.

Item 8—13,000 feet B. M. of timber and plank for foundations.

Item 9—1,200 linear feet of piles.

Item 10—3 cubic yards of concrete (Class A).

Item 11—5 cubic yards of concrete (Class D).

Item 12—2 cubic yards of brick masonry.

Item 13—300 cubic yards of extra earth excavation.

Item 14—400 square yards of roadway pavement, all kinds, for which double deposit is required.

Item 15—400 pounds of steel reinforcement (¾-inch) bars in place.

The time allowed for constructing and completing the sewer and appurtenances will be sixty consecutive working days.

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

NO. 3. FOR THE ALTERATION AND IMPROVEMENT TO SEWER IN 90TH ST. BETWEEN LEXINGTON AND PARK AVES.

The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

Item 1—410 linear feet of 15-inch vitrified pipe sewer, complete.

Item 2—60 spurs for house connections.

Item 3—4 manholes, complete.

Item 4—15 cubic yards of rock (Class A) excavated and removed.

Item 5—40 cubic yards of rock (Class B) excavated and removed.

Item 6—1 cubic yard of concrete (Class A).

Item 7—1 cubic yard of brick masonry.

Item 8—2 cubic yards of extra earth excavation.

Item 9—12,500 feet B. M. of timber

pleting the alteration to receiving basins and appurtenances will be twenty-five (25) consecutive working days.

The amount of security required will be One Thousand (\$1,000) Dollars, and the amount of deposit accompanying the bid shall be five per cent. (5%) of the amount of security.

NO. 7. FOR THE RECEIVING BASINS ALTERED AND IMPROVED ON PARK AVE., 72ND TO 96TH ST., WITH INLETS AND ALL WORK INCIDENTAL THERETO (CFM 37A), AND RECEIVING BASINS AT SOUTH-EAST CORNER OF PARK AVE. AND 74TH ST., AND 25 OTHER POINTS (CFM 25).

The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

CFM-25.

Item 1—26 receiving basins, Type A, complete.

Item 2—265 linear feet of 12-inch basin connection, complete.

Item 3—56 linear feet of 12-inch vitrified pipe sewer, complete.

Item 4—60 cubic yards of rock, Class A, excavated and removed.

Item 5—10 cubic yards of rock, Class B, excavated and removed.

Item 6—1 cubic yard of concrete, Class A.

Item 7—1 cubic yard of brick masonry.

Item 8—1 cubic yard of extra earth excavation.

Item 9—15 linear feet of curb reset in concrete.

Item 10—70 square feet of flagstone sidewalk pavement furnished and laid.

Item 11—230 square feet of flagstone sidewalk pavement redressed and relaid.

Item 12—1,250 square feet of concrete sidewalk pavement laid.

Item 13—57 square yards of roadway pavement, all kinds, for which double deposit is required.

Item 14—4 manholes, complete.

Item 15—500 feet, B. M., of timber and plank for bracing and sheeting.

Item 16—12 receiving basins altered and improved, Method A, complete.

Item 17—6 receiving basins altered and improved, Method B, complete.

Item 18—2 inlets, Type A, complete.

Item 19—18 inlets, Type B, complete.

Item 20—1 inlet, trapped, complete.

Item 21—550 linear feet of 12-inch basin connection, complete.

Item 22—5 cubic yards of rock, Class A, excavated and removed.

Item 23—10 cubic yards of rock, Class B, excavated and removed.

Item 24—1 cubic yard of concrete, Class A.

Item 25—1 cubic yard of brick masonry.

Item 26—1 cubic yard of extra earth excavation.

Item 27—500 linear feet of 6-inch granite curb, Class A, set in concrete.

Item 28—275 linear feet of 6-inch granite curb, Class B, set in concrete.

Item 29—60 linear feet of curb reset in concrete.

Item 30—500 square feet of flagstone sidewalk pavement furnished and laid.

Item 31—2,250 square feet of flagstone sidewalk pavement redressed and relaid.

Item 32—3,600 square feet of concrete sidewalk pavement laid.

Item 33—42 square yards of roadway pavement, all kinds, for which double deposit is required.

Item 34—200 feet B. M. of timber and plank for bracing and sheeting.

The time allowed for constructing and completing the alteration to receiving basins and appurtenances and constructing the receiving basins will be sixty (60) consecutive working days.

The amount of security required will be Sixty-five Hundred Dollars (\$6,500), and the amount of deposit accompanying the bid shall be five per cent. (5%) of the amount of security.

NO. 8. FOR THE RECEIVING BASINS ALTERED AND IMPROVED ON PARK ROW, CHATHAM SQUARE AND BOWERY FROM PEARL ST. TO GRAND ST., WITH ALL WORK INCIDENTAL THERETO (CFM 37A), AND RECEIVING BASIN ADJACENT TO THE SOUTHWEST CORNER OF PARK ROW AND MULBERRY ST. (CFM 25).

The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

CFM-25.

Item 1—1 receiving basin, Type A, complete.

Item 2—10 linear feet of 12-inch basin connection.

Item 3—1 cubic yard of concrete, Class A.

Item 4—1 cubic yard of brick masonry.

Item 5—1 cubic yard of extra earth excavation.

Item 6—6 linear feet of curb reset.

Item 7—12 square feet of flagstone sidewalk pavement furnished and laid.

Item 8—35 square feet of flagstone sidewalk pavement redressed and relaid.

Item 9—6 square yards of roadway pavement, all kinds, for which double deposit is required.

Item 10—500 feet B. M. of timber and plank for bracing and sheeting.

CFM 37 A.

Item 1—receiving basins, altered and improved, Method A, complete.

Item 2—3 receiving basins, altered and improved, Method B, complete.

Item 3—2 receiving basins, altered and improved, Method C, complete.

Item 4—1 receiving basin head and gutter stone recut and reset.

Item 5—370 linear feet of 12-inch basin connection, complete.

Item 6—1 shallow manhole, complete.

Item 7—6 inlets, Type A, complete.

Item 8—11 inlets, Type B, complete.

Item 9—9 inlets, Type C, complete.

Item 10—1 cubic yard of rock, Class B, excavated and removed.

Item 11—2 cubic yards concrete, Class A.

Item 12—2 cubic yards brick masonry.

Item 13—2 cubic yards extra earth excavation.

Item 14—330 linear feet of 6-inch granite curb, Class A, set in concrete.

Item 15—180 linear feet of 6-inch granite curb, Class B, set in concrete.

Item 16—60 linear feet of curb reset in concrete.

Item 17—150 square feet of flagstone sidewalk pavement furnished and laid.

Item 18—1,600 square feet of flagstone sidewalk pavement redressed and relaid.

Item 19—2,000 square feet of concrete sidewalk pavement laid.

Item 20—50 square yards of roadway pavement, all kinds, for which double deposit is required.

Item 21—500 feet B. M. of timber and plank for bracing and sheeting.

The time allowed for constructing and completing the alteration to receiving basins and appurtenances and constructing receiving basin will be thirty-five (35) consecutive working days.

The amount of security required will be Twenty-five Hundred Dollars (\$2,500), and the amount of deposit accompanying the bid shall be five per cent. (5%) of the amount of security.

The bidder will state the price for each item or article contained in the specifications or schedules herein contained or hereto annexed, per foot, yard, or other unit of measure or article, by which the bid will be tested. Each contract, if awarded, will be awarded for the whole work at a lump sum.

Blank forms may be had and the drawings, form of specification and contract may be seen at the offices of the Commissioner of Public Works, Municipal Building, Bureau of Sewers, Room 2103, Manhattan.

June 1, 1916.

MARCUS M. MARKS, President.

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

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

FRIDAY, JUNE 3, 1916.

FOR ALL OF THE LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION OF ELECTRIC ELEVATOR AND EQUIPMENT IN COURT HOUSE LOCATED AT 170 E. 121ST ST., BOROUGH OF MANHATTAN.

The time allowed for the completion of the work will be fifty (50) consecutive working days.

The amount of security required will be Fifteen Hundred (\$1,500) Dollars, and the amount of deposit accompanying the bid shall be five (5) per cent. of the amount of security.

The bidder will state one aggregate price for the whole work described and specified, as the contract is entire and for a complete job.

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

Blank forms, specifications and plans may be obtained at the office of the Auditor, offices of the Commissioner of Public Works, Room 2141, Municipal Building, Manhattan.

MARCUS M. MARKS, President.

Dated May 29, 1916.

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 Brooklyn.

4994. Regulating, grading, curbing, flagging and paving E. 9th st. from Avenue Q to Avenue O, together with a list of awards for damages caused by a change of grade. Affecting Blocks 6590, 6591, 6615, 6616, 6640 and 6641.

5130. Sewer in Avenue H from E. 35th st. to Brooklyn ave. Affecting Blocks 7553 to 7563 and 7571 to 7581.

5159. Sewer in Clara st. from 36th st. to West st. Affecting Blocks 5308 to 5311.

5164. Sewers in 17th ave. from 54th st. to 55th st.; in 54th st. from 17th ave. to 19th ave.; in 55th st. from 15th ave. to 17th ave.; and in 54th st. from 15th ave. to 16th ave. Affecting Blocks 5477 to 5480 and 5484 to 5490.

All persons whose interests are affected by the above named proposed assessments, and who are opposed to the same or either of them, are requested to present their objections, in writing, to the Secretary of the Board of Assessors, Room 809, Municipal Building, Manhattan, New York, on or before Wednesday, July 5, 1916, at 10 a. m., at which time and place the said objections will be heard and testimony received in reference thereto.

WILLIAM C. ORMOND, JACOB J. LESSER, ST. GEORGE B. TUCKER, Board of Assessors.

ST. GEORGE B. TUCKER, Secretary.

June 3, 1916.

Borough of Manhattan.

5142. Paving and curbing Haven ave. from W. 179th st. to W. 180th st. Affecting Block 2177.

Borough of The Bronx.

5105. Sewers and appurtenances in Spuyten Duyvil rd. between W. 230th st. and W. 240th st.; W. 240th st. between Spuyten Duyvil rd. and the easterly side of Broadway at Van Cortlandt Park; W. 234th st. between Spuyten Duyvil rd. and Kingsbridge ave., and in Corlear ave. between W. 232nd st. and the summit north of W. 234th st. Affecting Blocks 3403, 3406, 3408, 3409, 3412, 3414, 3416 to 3418 and 3422.

Borough of Queens.

2571. Sewers and appurtenances in Oak st. (ave.) from Flushing Creek to 17th (Elton) st.; Bowne ave. from Oak st. (ave.) to Narcissus st. (Sinclair ave.); Parsons ave. from Oak st. (ave.) to Beyreuth (Beech) st.; 17th (Elton) st. from Oak st. (ave.) to Sanford ave.; Narcissus st. (Sinclair ave.) from Bowne ave. to Smart ave.; Smart ave. from Narcissus st. (Sinclair ave.) to Queens ave. (Tennyson st.); Georgia (Hawthorn st.) from Parsons ave. to 16th (Duchess) st.; Franconia (Whittier) ave. from Parsons ave. to 17th (Elton) st. and from 18th (Forbes) st. to 19th (Gerold) st.; Delaware st. from Parsons ave. to Percy st. and from 16th (Duchess) st. to Ziegler (Central) ave.; California (Cypress) ave. from Parsons ave. to Percy st.; and from Ziegler (Central) ave. to 23rd st. (Kendall pl.); Beyreuth (Beech) st. from Parsons ave. to Percy st.; and from Murray st. to Ziegler (Central) ave.; Queens ave. (Tennyson st.) from Parsons ave. to 20th (Haydock) st.; 16th (Duchess) st. from Queens ave. (Tennyson st.) to Sanford ave.; Ziegler (Central) ave. from Beyreuth (Beech) st. to Queens ave. (Tennyson st.); Murray st. from Franconia (Whittier) ave. to Sanford ave.; Hyacinth st. (Hollywood pl.) from 16th (Duchess) st. to Ziegler (Central) ave.; Erie (Elm) st. from Murray st. to Ziegler (Central) ave.; 18th (Forbes) st. from Queens ave. (Tennyson st.) to Franconia (Whittier) ave.; 19th (Gerold) st. from Queens ave. (Tennyson st.) to Franconia (Whittier) ave.; 15th (Custer) st. from Beyreuth (Beech) st. to Sanford ave.; Sanford ave. from 16th (Duchess) st. to Boerum ave. and from 21st (Idaho) st. to Jackson ave. (Broadway); Ash st. from Murray st. to Wentworth ave. (Wilson st.); 20th (Haydock) st. from California (Cypress) ave. to Franconia (Whittier) ave.; and 22nd (Joslin) st. from California (Cypress) ave. to Jackson ave. (Broadway).

Third Ward. Affecting the following blocks: Volume 3, Blocks 22 to 31 and 34 to 37; Volume 4, Blocks 38, 39A, 39B, 39C, 39D, 39E, 39F, 39G, 39H, 39I, 39K, 39L, 39M, 39N, 39P, 39Q, 39R, 39S, 39T, 39U, 39V, 39W, 39X, 39Y, 39Z, 40K, 40L, 40M, 40N, 40P, 40Q, 40R, 40S, 40T, 40U, 40V, 40W, 41A, 41B, 41C, 41D, 41E, 41F, 41G, 41H, 41I, 41K, 41L, 41M, 41N, 41O, 41P, 41Q, 41R, 41V, 41W, 41X and 41Y; Volume 5, Blocks 52, 51 to 94, 94A, 94B, 94C, 94E, 94F, 94G, 95, 95C, 95D, 95E, 95F, 96, 96A, 96B, 96D, 96E, 96F, 96G, 96H, 97, 97A, 97B, 97C, 97D, 97E, 97K, 97L, 97M, 97N, 97P, 97Q, 98, 98A, 98B, 98C, 98D, 98E, 99, 99A, 99B, 99C, 99D, 99E, 99F, 99G, 99H, 99K, 100, 100A, 100B, 100C, 100D, 100E, 100F, 100H, 100K, 100L, 100M, 100N, 100P and 100R; Volume 6, Blocks 115 to 123, 123A, 124 to 140, 140A, 140B, 140C, 140D, 141 to 167, 168A, 168B, 168C, 168D, 168E, 168F, 168G, 168H, 168I, 168K, 168L, 168M,

168N, 168P, 168Q and 168R; Volume 7, Blocks 175 to 178, 180, 180A, 181 to 197, 200 to 206, 206A, 206B, 206C, 206D, 206E, 206F, 206G, 206H, 206J, 206K, 206L, 206M, 206N, 206P, 206R, 206S, 206T, 207 to 211, 214, and 216 to 218; Volume 13, Blocks 24 and 26; Volume 14, Blocks 50, 50E, 50I, 50M, 51A, 51B, 51C, 51D, 51L and 51M.

4150. Regulating, grading, curbing and flagging Polk ave. (Newtown and Flushing Turnpike) from Alburts (Sycamore) ave. to Junction ave., and Alburts ave. from Polk ave. to Fillmore ave., Second Ward, together with a list of awards for damages caused by a change of grade. Affecting Blocks 739 to 741, 787 to 804 and 806.

4478. Regulating, grading, curbing and flagging Putnam ave. from Forest ave. to a line 65 feet west of Buchman ave., Second Ward, together with a list of awards for damages caused by a change of grade. Affecting Blocks 2573, 2574, 2576 and 2579.

Borough of Brooklyn.

5155. Basin on Albany ave. at the southeast corner of Eastern Parkway. Affecting Block 1394.

5157. Basin on the west side of West st., about 45 feet north of 38th st. Affecting Block 5367.

5158. Basins on Williams ave. at the northeast and northwest corners of Vienna ave. Affecting Blocks 3875 and 4317.

5160. Sewer in Dumont ave. from Cleveland st. to Ashford st. Affecting Blocks 4064 and 4080.

5161. Sewer in E. 8th st. from Avenue L to Avenue M. Affecting Blocks 6533, 6534, 6543 and 6544.

5162. Sewer in Kenmore pl. from Avenue G to a line 520 feet southerly therefrom. Affecting Blocks 7548 to 7549.

5163. Sewer in Rochester ave. from Union st. to Eastern Parkway. Affecting Blocks 1397 and 1398.

All persons whose interests are affected by the above named proposed assessments, and who are opposed to the same or either of them, are requested to present their objections, in writing, to the Secretary of the Board of Assessors, Room 809, Municipal Building, Manhattan, New York, on or before Tuesday, June 27, 1916, at 10 a. m., at which time and place the said objections will be heard and testimony received in reference thereto.

WILLIAM C. ORMOND, JACOB J. LESSER, ST. GEORGE B. TUCKER, Board of Assessors.

ST. GEORGE B. TUCKER, Secretary.

May 27, 1916.

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 noon on

MONDAY, JUNE 12, 1916.

FOR ALL THE HORSE MANURE, STRAW, STABLE WASTE AND REFUSE WHICH ACCUMULATE AT THE FOLLOWING NAMED STABLES OF THE DEPARTMENT OF STREET CLEANING IN THE BOROUGH OF THE BRONX AND BROOKLYN DURING THE PERIOD BEGINNING JULY 1, 1916, AND ENDING JUNE 30, 1917, INCLUSIVE:

Borough of The Bronx.

Stable "A," 189th st. and Tiebout ave., approximate number of horses, 101.

Stable "B" and Annexed, 365 E. 152nd st., approximate number of horses, 185.

Stable "C," Thomas st., near Ferris pl., Westchester, approximate number of horses, 75.

Borough of Brooklyn.

Stable "A," Kent and Flushing ayes., approximate number of horses, 186.

Stable "B," 403 Butler st., approximate number of horses, 126.

Stable "C," Nostrand ave., near Malbone st., approximate number of horses, 135.

Stable "D," Kent ave. and N. 13th st., approximate number of horses, 105.

Stable "E," Jamaica ave. and Gillen pl., approximate number of horses, 123.

Stable "F," 67th st. and 18th ave., approximate number of horses, 72.

Stable "G," 1815 Pacific st., approximate number of horses, 120.

Stable "H," 4808 Fourth ave., approximate number of horses, 94.

Stable "I," E. 3rd st., Canal ave., Coney Island, approximate number of horses, 33.

The horse manure, straw, stable waste and refuse is to be removed by the successful bidder, at his own cost and expense, on each and every day, excepting Sundays and legal holidays, before 12 o'clock noon.

The agreements, if awarded, will be awarded for each stable separately, and the bidder must state the amount which he offers for each stable separately.

The agreements, if awarded, will be awarded to the bidder, or bidders, offering the highest amount per horse, per year, for each of the horses kept at the said stables during the period July 1, 1916, to June 30, 1917, inclusive.

Payment is to be made at the end of each and every month, during the term of the contract, for the average number of horses kept at each of the said stables during each month, at a rate per year for each horse; the average number to be determined by adding the number of horses kept at each of said stables on each and every day during the month and dividing the total number so kept by the number of calendar days in each month.

The amount of the bond required will be Five Hundred Dollars (\$500) for each stable for which a bid is submitted.

The amount of security to be deposited with the bid shall be not less than five per cent. of the aggregate amount of the bonds.

The Department of Street Cleaning reserves the right to change the location of any of the above mentioned stables at any time.

Blank forms of proposals for bids or estimates copies of the contract in the form approved by the Corporation Counsel, and forms of bids or estimates may be obtained on application at the Main Office of the Department of Street Cleaning, 12th floor, Municipal Building, Manhattan. Bids on any other forms will not be considered.

J. T. FETHERSTON, Commissioner.

Dated May 27, 1916.

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

DEPARTMENT OF EDUCATION.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the office of the Department of Education, Park ave. and 59th st., Manhattan, until 11 a. m., on

MONDAY, JUNE 12, 1916.

FOR ALTERATIONS AND REPAIRS TO HEATING AND VENTILATING APPARATUS IN PUBLIC SCHOOLS 1, 5, 34, 39, 53, 61, 103, 159, 171 AND 184, BOROUGH OF MANHATTAN.

The time allowed to complete the whole work on each school will be sixty (60) working days, as provided in the contract.

The amount of security required is as follows:

P. S. 1, \$300; P. S. 2, \$200; P. S. 3, \$200; P. S. 4, \$100; P. S. 12,

The deposit accompanying bid on each school shall be five per cent. of the amount of security. A separate proposal must be submitted for each school, and award will be made thereon. Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at Estimating Room, 9th floor, Hall of the Board of Education, Park ave. and 59th st., Manhattan.

C. B. J. SNYDER, Superintendent of School Buildings.
Dated, May 23, 1916. m23,j5

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

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the office of the Department of Education, Park ave. and 59th st., Manhattan, until 11 a. m., on

MONDAY, JUNE 5, 1916.
Borough of Brooklyn.

FOR SANITARY ALTERATIONS, ETC., AT PUBLIC SCHOOLS 4, 5, 61, 64, 66, 70, 92, 146, 150, 157, COMMERCIAL HIGH SCHOOL AND TRAINING SCHOOL FOR TEACHERS, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work on each item of P. S. 4 and for each school will be fifty-five (55) working days, as provided in the contract.

The amount of security required is as follows:

P. S. 4 (Item 1), \$2,400; P. S. 4 (Item 2), \$1,000; P. S. 5, \$600; P. S. 61, \$400; P. S. 64, \$1,000; P. S. 66, \$200; P. S. 70, \$300; P. S. 92, \$200; P. S. 146, \$400; P. S. 150, \$600; P. S. 157, \$600; Commercial High School, \$300; Training School for Teachers, \$300.

The deposit accompanying bid on each item for each school shall be five per cent. of the amount of security.

A separate proposal must be submitted for each item for each school, and award will be made thereon.

FOR INSTALLATIONS FOR ECONOMIZING FUEL IN PUBLIC SCHOOLS 94, 146, 152, 154, 170 AND 172, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work on each school will be ninety (90) working days, as provided in the contract.

The amount of security required is as follows:

P. S. 94, \$300; P. S. 146, \$300; P. S. 152, \$300; P. S. 154, \$300; P. S. 170, \$300; P. S. 172, \$300.

The deposit accompanying bid on each school shall be five per cent. of the amount of security.

A separate proposal must be submitted for each school, and award will be made thereon.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at Estimating Room, 9th floor, Hall of the Board of Education, Park ave. and 59th st., Manhattan, and also at Branch Office, 131 Livingston st., Brooklyn.

C. B. J. SNYDER, Superintendent of School Buildings.
Dated, May 23, 1916. m23,j5

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

SUPREME COURT—FIRST DEPARTMENT.

Hearings on Qualifications.

In the Matter of acquiring title by The City of New York to certain lands and premises situated in the blocks bounded by Fifteenth and Sixteenth Streets, Avenues D and C, and Avenue D and Tompkins Street, and Tompkins Street and the pierhead line of the East River, in the Borough of Manhattan, duly selected as an addition to the Willard-Parker Hospital.

NOTICE IS HEREBY GIVEN THAT BY AN order of the Supreme Court of the State of New York, bearing date the 24th day of May, 1916, and filed and entered in the office of the Clerk of the County of New York on the same day, James D. Fessenden was appointed a Commissioner of Estimate and Appraisal in the above entitled proceeding in the place and stead of Charles P. Dillon, deceased.

NOTICE IS FURTHER GIVEN, pursuant to the statutes in such case made and provided, that the said James D. Fessenden will attend at a Special Term of the Supreme Court, to be held in Part II thereof, in the County Court House, in the Borough of Manhattan, City of New York, on the 15th day of June, 1916, at eleven o'clock in the forenoon of that day, for the purpose of being examined under oath by the Corporation Counsel of The City of New York, or by any person having an interest in said proceeding, as to his qualifications to act as a Commissioner of Estimate and Appraisal in said proceeding.

Dated, New York, May 27, 1916.
LAMAR HARDY, Corporation Counsel,
Municipal Building, Borough of Manhattan, New York City. j2,13

Filing Bills of Costs.

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 PIERCE AVENUE, from Bear Swamp road to Eastchester road, and Sackett avenue, from Bear Swamp road to Williamsbridge road, 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, East 161st street and 3rd avenue, in the Borough of The Bronx, in the City of New York, on the 6th day of June, 1916, at the opening of the Court on 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 Bronx, there to remain for and during the space of ten days, as required by law.

Dated, New York, May 19, 1916.
GEORGE B. HAYES, JOHN ROSS DELA-FIELD, MAURICE S. COHEN, Commissioners of Estimate; GEORGE B. HAYES, Commissioner of Assessment.
JOEL J. SQUIER, Clerk. m23,j3

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 MUNROE AVENUE, from Sackett avenue to Van Nest avenue, and HAIGHT AVENUE, from Sackett avenue to Van Nest avenue, 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

Bronx County Court House, East 161st street and 3rd avenue, in the Borough of The Bronx, in the City of New York, on the 6th day of June, 1916, at the opening of the Court on 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 Bronx, there to remain for and during the space of ten days, as required by law.

Dated, New York, May 19, 1916.
MARTIN GEISLER, CLARENCE C. ROGERS, MORRIS ARNSTEIN, Commissioners of Estimate; CLARENCE C. ROGERS, Commissioner of Assessment.
JOEL J. SQUIER, Clerk. m23,j3

Filing Preliminary Abstracts.

In the Matter of the Application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired for, the same purpose, in fee to the lands, tenements and hereditaments required for the opening and extending of LUDLOW AVENUE, from Tremont avenue near Avenue A to Whitlock avenue; WHITLOCK AVENUE, as widened, from Ludlow avenue to Hunts Point road; and the PUBLIC PLACE at the intersection of Whitlock avenue, Hunts Point road and the Southern Boulevard opposite Dongan street, in the 23rd and 24th Wards, Borough of The Bronx, City of New York; as amended by an order of the Supreme Court, duly made and entered in the office of the Clerk of the County of New York on the 24th day of October, 1910, so as to include a triangular parcel located at the junction of Ludlow avenue and Tremont avenue in accordance with a resolution adopted by the Board of Estimate and Apportionment on the 25th day of February, 1910.

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 5th day of June, 1916, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 7th day of June, 1916, at 10 o'clock a. m.

Second.—That the undersigned, Commissioner of Assessment, has completed his supplemental and amended estimate of benefit and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with him at his office, Room 1557, 15th floor, Municipal Building, Chambers and Centre streets, in the Borough of Manhattan, in the City of New York, on or before the 5th day of June, 1916, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 8th day of June, 1916, at 10 o'clock a. 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 25th day of February, 1910, 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 a line distant 1,172.54 feet northerly from and parallel with the northerly side of Ludlow avenue, measured along a line at right angles to the line of Ludlow avenue at its intersection with Olmstead avenue, the said line being located approximately midway between Haviland avenue and Powell avenue, with the centre line of Westchester Creek, and running thence southwesterly along the said centre line of the Westchester Creek to the intersection with a line parallel with and distant 1,122.585 feet southerly from the southerly line of Ludlow avenue, the said distance being measured along a line at right angles to Ludlow avenue at its intersection with Olmstead avenue and located approximately midway between Hermany avenue and Turnbull avenue; thence westwardly along the said line distant 1,122.585 feet southerly from and parallel with the line of Ludlow avenue to the intersection with the centre line of the Bronx River; thence northwardly along the said centre line of the Bronx River to the intersection with the prolongation of a line midway between Garrison avenue and Seneca avenue, through that portion of their length located between Edgewater road and Bryant street; thence westwardly along the said line midway between Garrison avenue and Seneca avenue and along the prolongation of the said line to the intersection with the easterly line of Bryant avenue; thence westwardly to a point on the westerly side of the Hunts Point road, where the said westerly side of the Hunts Point road is intersected by a line distant 100 feet southeasterly from and parallel with the southeasterly line of Garrison avenue, the said distance being measured at right angles to the line of Garrison avenue; thence southwardly and parallel with the southeasterly line of Garrison avenue to the intersection with a line midway between Hunts Point road and Manida street and along the prolongation of the said line to the intersection with a line distant 100 feet southwesterly from and parallel with the southeasterly side of the Hunts Point road through that portion of its length northwest of Garrison avenue, the said distance being measured at right angles to the line of the Hunts Point road; thence northwardly along the said line parallel with the centre line of the land of the New York, New Haven and Hartford Railroad Company; thence southwardly along the said centre line of the lands of the New York, New Haven and Hartford Railroad Company to a point on the said line midway between Barretto street and Tiffany street; thence northwardly to a point on a line midway between Kelly street and Intervale avenue distant 100 feet southerly from the intersection of the said line with the southerly line of Dongan street; thence northwardly along the said line midway between Kelly street and Intervale avenue to a point distant 100 feet north of the intersection of the said line with the northerly side of Dongan street; thence eastwardly to a point on a line midway between Simpson street and the Southern Boulevard located midway between the intersection of the said line with Dongan street and Westchester avenue; thence northwardly along the said line midway between the Southern Boulevard and Simpson street to the intersection with the prolongation of a line midway between Aldus street and Bancroft street; thence eastwardly along the same line midway between Aldus street and Bancroft street and along the prolongation of the said line to the

intersection with a line midway between Bryant avenue and Longfellow avenue; thence northwardly along the said line midway between Bryant avenue and Longfellow avenue to a point on the said line midway between its intersection with Bancroft street and Westchester avenue; thence eastwardly to a point on the centre line of the Bronx River, where the said centre line is intersected by the course herein first described; thence eastwardly, parallel with the line of Ludlow avenue and along the course herein first described to the point or place of beginning.

Fourth.—That the abstracts of said supplemental and amended estimate of damage and of said supplemental and amended 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 June, 1916.

Fifth.—That, provided there be no objections filed to either of said supplemental and amended abstracts, the supplemental and amended reports as to awards and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part II, to be held in the County Court House in the Borough of Manhattan, in the City of New York, on the 5th day of October, 1916, at the opening of the Court on that day.

Sixth.—In case, however, objections are filed to the foregoing supplemental and amended abstracts of estimate and assessment, or to either of them, the motion to confirm the supplemental and amended reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in 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, May 15, 1916.
JOHN J. MACKIN, JAMES CRAWFORD, Commissioners of Estimate; JOHN J. MACKIN, Commissioner of Assessment.
JOEL J. SQUIER, Clerk. m23,j3

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 APPLETON AVENUE, from Fort Schuyler road to Westchester avenue; and ERICSON PLACE, from Fort Schuyler road to Appleton avenue, 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 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 15th day of June, 1916, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 19th day of June, 1916, 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, 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 15th day of June, 1916, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 20th day of June, 1916, at 2 o'clock p. m.

Third.—That the Commissioner of Assessment has assessed any or all such lands, tenements and hereditaments and premises as are within the area of assessment fixed and prescribed as the area of assessment for benefit by the Board of Estimate and Apportionment on the 19th day of September, 1912, and that the said area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of The Bronx, in the City of New York, which, taken together, are bounded, and described as follows, viz:

Beginning at a point on a line midway between Roberts avenue and Ponton avenue, as these streets are laid out at Lang avenue, distant 100 feet southwesterly from the southeasterly line of Lang avenue and running thence northwesterly along the said line midway between Roberts avenue and Ponton avenue and along the prolongation of said line to the intersection with the prolongation of a line distant 100 feet northerly from and parallel with the northerly line of Lee street, the said distance being measured at right angles to Lee street; thence eastwardly along the said line parallel with Lee street and along the prolongation of the said line to the intersection with a line midway between Mayflower avenue and Pilgrim avenue; thence southwardly along the said line midway between Mayflower avenue and Pilgrim avenue and along the prolongation of the said line to the intersection with a line distant 100 feet southerly from and parallel with the southerly line of Middletown road, the said distance being measured at right angles to Middletown road; thence eastwardly along the said line parallel with Middletown road to the intersection with the prolongation of a line midway between Mayflower avenue and Edison avenue as these streets are laid out between Roebeling avenue and Zulette avenue; thence southwardly along the said line midway between Mayflower avenue and Edison avenue and along the prolongation of the said line to the intersection with a line distant 100 feet northwesterly from and parallel with the northwesterly line of Dudley avenue, the said distance being measured at right angles to Dudley avenue; thence southwardly along the said line parallel with Dudley avenue to the intersection with a line midway between Mayflower avenue and William place as these streets are laid out where they adjoin Dudley avenue; thence southwardly along the said line midway between Mayflower avenue and William place and along the prolongation of the said line to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the northeasterly line of Edwards avenue and the southwesterly line of Fort Schuyler road as these streets are laid out at Latting street; thence northwardly along

the said bisecting line to the intersection with the prolongation of a line midway between Appleton avenue and Latting street as these streets are laid out between Balcom avenue and Vreeland avenue; thence southwardly along the said line midway between Appleton avenue and Latting street and along the prolongation of the said line to the intersection with the north-easterly pier and bulkhead line of Westchester Creek as shown on the final maps of the Borough; thence northwardly along the said pier and bulkhead line and along its prolongation as laid out at Fort Schuyler road to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the northeasterly line of Blondell avenue and the southwesterly line of Waters avenue as these streets are laid out between Fink avenue and Westchester avenue; thence northwardly along the said bisecting line to the intersection with the line midway between Fink avenue and Westchester avenue; thence northwardly along the said line midway between Fink avenue and Westchester avenue to a point distant 100 feet northeasterly from the northeasterly line of Waters avenue; thence northwardly and parallel with Waters avenue to the intersection with a line midway between Ponton avenue and Fink avenue; thence northwardly along the said line midway between Ponton avenue and Fink avenue to a point distant 100 feet southwesterly from the southwesterly line of Lang avenue; thence northwardly and parallel with Lang 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, Room 1529, 15th floor, Municipal Building, Chambers and Centre streets, in the Borough of Manhattan, in said City, there to remain until the 19th day of June, 1916.

Fifth.—That, provided there be no objections filed to either of said abstracts, the reports as to award and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part III, to be held in the County Court House in the Borough of Manhattan, in the City of New York, on the 5th day of October, 1916, at the opening of the Court on that day.

Sixth.—In case, however, objections are filed to the foregoing 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, May 18, 1916.
JAMES F. DONNELLY, Chairman; EARN-EST P. ECKLEY, HARRY E. DIAMOND, Commissioners of Estimate; JAMES F. DONNELLY, Commissioner of Assessment.
JOEL J. SQUIER, Clerk. m26,j13

SUPREME COURT—SECOND DEPARTMENT.

Filing Final Reports.

In the Matter of the Application of The City of New York, relative to acquiring title in fee, wherever the same has not been heretofore acquired, to the lands and premises required for the opening and extending of WILLOW STREET, between Wyckoff avenue and Myrtle avenue; STEPHEN STREET, between Wyckoff avenue and Myrtle avenue; SUMMERFIELD STREET, between Wyckoff avenue and Myrtle avenue; NORMAN STREET, between Wyckoff avenue and Myrtle avenue; GEORGE STREET, between Wyckoff avenue and Myrtle avenue; CENTRE STREET, between Wyckoff avenue and Myrtle avenue, in the 2nd Ward, Borough of Queens, City of New York, as amended by an order of this Court bearing date the 25th day of November, 1910, and entered in the office of the Clerk of the County of Queens on the 28th day of November, 1910, so as to relate to the said streets, as shown upon Section 30 of the final maps of the Borough of Queens, as adopted by the Board of Estimate and Apportionment on the 21st day of May, 1909, and further amended by an order of this Court bearing date the 29th day of August, 1911, and entered in the office of the Clerk of the County of Queens on the 30th day of August, 1911, so as to relate to the said streets, as shown upon section 30 of the final maps of the Borough of Queens, adopted by the Board of Estimate and Apportionment on the 1st day of July, 1910, and approved by the Mayor on the 13th day of July, 1910.

NOTICE IS HEREBY GIVEN THAT THE supplemental and amended 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, Second Department, at a Trial Term thereof, Part I, to be held in the Queens County Court House, Long Island City, in the Borough of Queens, in the City of New York, on the 7th day of June, 1916, at 10 o'clock in the forenoon of that day; and that the said supplemental and amended final reports have 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, May 31, 1916.
WM. A. MOLLER, HERMAN PLUMP, Commissioners of Estimate; WM. A. MOLLER, Commissioner of Assessment.
ALGER C. SHEPPARD, Clerk. m31,j5

Applications to Amend Proceedings.

In the Matter of the Application of The City of New York, relative to amending its application heretofore made in the Matter of the Application of The City of New York, relative to acquiring title wherever the same has not been heretofore acquired for the same purpose in fee to the lands, tenements and hereditaments required for the opening and extending of KIMBALL AVENUE, from Liberty avenue, near Digby street, to Liberty avenue, near Baker avenue, in the Fourth Ward, Borough of Queens, City of New York, so as to conform to a map or plan adopted by the Board of Estimate and Apportionment December 23, 1915, and approved by the Mayor January 10, 1916, in which the width of Woodhaven avenue was decreased from 100 feet to 60 feet, this resulting in a slight modification in the alignment of the northerly side of Kimball avenue at this intersection of such a character as to be slightly inconsistent with the lines shown on the damage maps heretofore approved in the opening proceeding; the proceeding as now amended providing for the acquisition of title to Kimball avenue from Liberty avenue, near Digby street, to Liberty avenue, near Baker avenue, as said Kimball avenue is now laid out upon the map or plan of The City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby

missioner of Estimate in the above entitled proceeding, in the place and stead of Herman T. Smith, deceased.

Notice is further given that, pursuant to the aforesaid order, the said Charles H. Georgi will attend at a Special Term for the hearing of motions, held at Trial Term, Part I, of the Supreme Court of the State of New York, Second Judicial District, to be held at the County Court House, in the County of Queens, in the Borough of Queens, in the City of New York, on the 15th day of June, 1916, 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 his qualifications to act as such Commissioner.

Dated, New York, June 3, 1916.
LAMAR HARDY, Esq., Corporation Counsel,
Municipal Building, Borough of Manhattan, City
of New York. m24,j5

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 ELY AVENUE, from Jackson avenue to No. 1st avenue, in the First Ward, Borough of Queens, in The City of New York.

NOTICE IS HEREBY GIVEN THAT BY AN order of the Supreme Court of the State of New York, Second Judicial District, dated April 19, 1916, and duly entered and filed in the office of the Clerk of the County of Queens on April 20, 1916, Wilbur R. Lewis, John Kindred Gillette and Emil A. Guenther were appointed Commissioners of Estimate in the above entitled proceeding, and that in and by the said order Wilbur R. Lewis was appointed the Commissioner of Assessment.

Notice is further given that, pursuant to the statute in such cases made and provided, the said Wilbur R. Lewis, John Kindred Gillette and Emil A. Guenther, Esqs., will attend at a Special Term for the hearing of motions, held at Trial Term, Part I, of the Supreme Court of the State of New York, Second Judicial District, to be held at the County Court House, in the County of Queens, in the Borough of Queens, in the City of New York, on the 9th day of June, 1916, 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, May 27, 1916.
LAMAR HARDY, Esq., Corporation Counsel,
Municipal Building, Borough of Manhattan, City
of New York. m27,j8

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 SCHROEDER PLACE, from Queens Boulevard to Woodside avenue, in the 2nd 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 Judicial District, dated April 26, 1916, and duly entered and filed in the office of the Clerk of the County of Queens on May 18, 1916, Gilbert W. Roberts, Frederick T. Davies and Adolph Herzog were appointed Commissioners of Estimate in the above entitled proceeding, and that in and by the said order Gilbert W. Roberts was appointed the Commissioner of Assessment.

Notice is further given that, pursuant to the statute in such cases made and provided, the said Gilbert W. Roberts, Frederick T. Davies and Adolph Herzog will attend at a Special Term for the hearing of motions, held at Trial Term, Part I, of the Supreme Court of the State of New York, Second Judicial District, to be held at the County Court House in the County of Queens, in the Borough of Queens, in the City of New York, on the 6th day of June, 1916, 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, May 24, 1916.
LAMAR HARDY, Esq., Corporation Counsel,
Municipal Building, Borough of Manhattan, City
of New York. m24,j5

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 LARK STREET, from Junction avenue to Alburtis avenue, and BANTA STREET, from Van Dine street to Junction avenue, in the 2nd 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 Judicial District, dated April 28, 1916, and duly entered and filed in the office of the Clerk of the County of Queens on May 18, 1916, Emanuel S. Cahn, Frank O'Keefe and Theodore M. Tragheim were appointed Commissioners of Estimate in the above entitled proceeding, and that in and by the said order Emanuel S. Cahn was appointed the Commissioner of Assessment.

Notice is further given that, pursuant to the statute in such cases made and provided, the said Emanuel S. Cahn, Frank O'Keefe and Theodore M. Tragheim will attend at a Special Term for the hearing of motions, held at Trial Term, Part I, of the Supreme Court of the State of New York, Second Judicial District, to be held at the County Court House, in the County of Queens, in the Borough of Queens, in the City of New York, on the 6th day of June, 1916, 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, May 24, 1916.
LAMAR HARDY, Esq., Corporation Counsel,
Municipal Building, Borough of Manhattan, City
of New York. m24,j5

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 CLERMONT AVENUE, from Maurice avenue to Fresh Pond road; COX PLACE, from Flushing avenue to Broad street; MARABEL AVENUE, from Maurice avenue to Maspeth avenue, together with the Public Park bounded by Clermont avenue, Hebbard avenue and Fresh Pond road, in the 2nd 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 Judicial District, dated April

28, 1916, and duly entered and filed in the office of the Clerk of the County of Queens on May 18, 1916, John Marcus, Franklin W. Vail and Harry E. Wade were appointed Commissioners of Estimate in the above entitled proceeding, and that in and by the said order John Marcus was appointed the Commissioner of Assessment.

Notice is further given that, pursuant to the statute in such cases made and provided, the said John Marcus, Franklin W. Vail and Harry E. Wade will attend at a Special Term for the hearing of motions, held at Trial Term, Part I, of the Supreme Court of the State of New York, Second Judicial District, to be held at the County Court House in the County of Queens, in the Borough of Queens, in the City of New York, on the 6th day of June, 1916, 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, May 24, 1916.
LAMAR HARDY, Esq., Corporation Counsel,
Municipal Building, Borough of Manhattan, City
of New York. m24,j5

Filing Preliminary Abstracts.

In the Matter of the Application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of ROBERGE PLACE, from West 3rd street to West 5th street, and WEST 2ND STREET, from Sheephead Bay road to Sea Breeze avenue, in the 1st Ward, Borough of Brooklyn, in 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 8th day of June, 1916, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at his said office on the 12th day of June, 1916, at 3.30 o'clock p. m.

Second.—That the undersigned, Commissioner of Assessment, has completed his estimate of benefit and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with him at his office, No. 166 Montague street, in the Borough of Brooklyn, in the City of New York, on or before the 8th day of June, 1916, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 12th day of June, 1916, at 3.30 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 14th day of November, 1912, 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 the prolongation of a line distant 100 feet northerly from and parallel with the northerly line of Roberge place, the said distance being measured at right angles to Roberge place, distant 100 feet westerly from the westerly line of West 5th street, and running thence easterly along the said line parallel with Roberge place and along the prolongations of the said line to the intersection with a line midway between West 2d street and West 3d street; thence northerly along the said line midway between West 2d street and West 3d street to the intersection with a line distant 100 feet northerly from and parallel with the northerly line of Sheephead Bay road, the said distance being measured at right angles to Sheephead Bay road to the intersection with a line midway between West 1st street and West 2d street; thence southerly along the said line midway between West 1st street and West 2d street and along the prolongation of the said line to a point distant 100 feet southerly from the southerly line of Sea Breeze avenue, the said distance being measured at right angles to Sea Breeze avenue; thence westwardly and always distant 100 feet southerly from and parallel with the southerly line of Sea Breeze avenue to the intersection with the prolongation of a line midway between West 2d street and West 3d street; thence northerly along the said line midway between West 2d street and West 3d street and along the prolongation of the said line to the intersection with the prolongation of a line distant 100 feet southerly from and parallel with the southerly line of Roberge place, the said distance being measured at right angles to Roberge place; thence westwardly along the said line parallel with Roberge place and along the prolongations of the said line to the intersection with a line parallel with West 5th street and passing through the point of beginning; thence northerly along the said line parallel with West 5th street to the point or place of beginning.

Fourth.—That the abstracts of said estimate of damage and of said assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, No. 166 Montague street, in the Borough of Brooklyn, in said City, there to remain until the 19th day of June, 1916.

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 19th day of July, 1916, 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 538 of the Laws of 1906.

Dated, New York, May 19, 1916.
PATRICK J. BOYLAN, EDMUND D. HENNESSY, ISAAC CORTEYOU, Commissioners
of Estimate; PATRICK J. BOYLAN, Commissioner
of Assessment. m19,j6

ANDREW C. TROY, Clerk.

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, Manhattan, until 3 p. m. on

THURSDAY, JUNE 15, 1916.

Borough of Manhattan.
FOR ALL LABOR AND MATERIALS REQUIRED FOR SPECIAL STEEL ALCOHOLIC STORAGE STACKS FOR THE AMERICAN MUSEUM OF NATURAL HISTORY.

The amount of security required is One Thousand Dollars (\$1,000).

The time allowed to complete the work will be sixty (60) consecutive working days.

Certified check or cash in the sum of Fifty Dollars (\$50) must accompany bid.

Blank forms and other information may be obtained at the office of the Department of Parks, Manhattan and Richmond, Room 1004, Municipal Building, Manhattan.

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

CABOT WARD, President; RAYMOND V. INGERSOLL, THOMAS W. WHITTLE, JOHN E. WEIER, Commissioners of Parks.

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

DEPARTMENT OF HEALTH.

Proposals.

SEALED BIDS OR ESTIMATES WILL BE received by the Board of Health of the Department of Health, Centre and Walker sts., Manhattan, until 10.30 a. m., on

MONDAY, JUNE 12, 1916.

Borough of Manhattan.
FOR FURNISHING AND DELIVERING GROCERY SUPPLIES AS REQUIRED TO THE HOSPITALS OF THE DEPARTMENT OF HEALTH OF THE CITY OF NEW YORK, AND THE TUBERCULOSIS SANATORIUM AT OTTISVILLE, ORANGE COUNTY, NEW YORK, ON OR BEFORE JUNE 30, 1916.

The time for the performance of the contract will be on or before June 30, 1916.

No bond will be required with the bid, but will be required upon awarding of the contract, in an amount equal to thirty (30%) per cent. of the contract.

The bid, however, must be accompanied by a deposit of an amount of not less than 1½ per cent. of the amount of the bid.

Bids will be compared and the contract awarded to the lowest bidder on each item from line No. 1 to No. 42, and on each class from Class No. 2 to No. 16 complete.

Blank forms for the above and further information may be obtained at the office of the Chief Clerk, Department of Health, Centre and Walker sts., Manhattan.

HAVEN EMERSON, M. D., President; EUGENE W. SCHEFFER, Secretary.

Dated June 1, 1916. j1,j2

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

NOTICE TO BIDDERS AT SALES OF OLD BUILDINGS, ETC.

TERMS AND CONDITIONS UNDER WHICH BUILDINGS, ETC., WILL BE SOLD FOR REMOVAL FROM CITY PROPERTY.

THE BUILDINGS AND APPURTENANCES thereto will be sold to the highest bidder, who must pay cash or certified check, drawn to the order of the Comptroller of The City of New York, and must also give a certified check or cash in half the amount of the purchase price as security for the faithful performance of the terms and conditions of the sale. Where the amount of the purchase price does not equal or exceed the sum of \$50, the sum of \$50 shall be the amount of the security to be deposited. This security may be at any time after the expiration of the contract period be applied by the City to the cost of completing any of the work required under the contract, but unfinished at the expiration of the contract period.

The purchaser shall not lease, occupy, cause or permit the building or buildings, etc., purchased by him to be used or occupied for any purpose other than that of their speedy removal nor shall he collect any rental or other revenue for the use of either the land or the buildings, etc., situated thereon. The breach of either or any of these conditions shall forthwith void the sale and cause immediate forfeiture of the purchase money and the security deposited for the faithful performance of the conditions of the sale. The placing therein or permitting the occupancy of any such buildings by any tenant free, labor 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 openings in the street to be obtained by and at the expense of the purchaser of the building.

Failure to remove said buildings, appurte-

nances, or any part thereof, within thirty days from the day of possession will work forfeiture of ownership of such buildings, appurtenances or portions as shall then be left standing, together with all moneys paid by said purchaser on account thereof at the time of the sale, and the bidder's assent to the above conditions being understood to be implied by the act of bidding, and The City of New York will, without notice to the purchaser, cause the same to be removed, and the cost and expense thereof charged against the security above mentioned.

The work of removal must be carried on in every respect in a thorough and workmanlike manner, and must be completed within thirty days from the day of possession, and the successful bidder will provide and furnish all materials of labor and machinery necessary thereto, and will place proper and sufficient guards and fences and warning signs by day and night for the prevention of accidents, and will indemnify and save harmless The City of New York, its officers, agents and servants, and each of them, against any and all suits and actions, claims and demands of every name and description brought against it, them or any of them, and against and from all damage and costs to which it, they or any of them be put by reason of injury to the person or property of another, resulting from negligence or carelessness in the performance of the work, or in guarding the same, or from any improper or defective materials or machinery, implements or appliances used in the removal of said buildings.

Where party walls are found to exist between buildings purchased by different bidders, the materials of said party walls shall be understood to be equally divided between the separate purchasers.

Party walls and fences, when existing against adjacent property not sold, shall not be taken down. All furrings, plaster, chimneys, projecting bricks, etc., on the faces of such party walls are to be taken down and removed. The walls shall be made permanently self-supporting, 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.

No buildings, parts of buildings, fixtures or machinery sold for removal under these terms and conditions shall in any case be re-located or re-erected within the lines of any proposed street or other public improvement, and if any such buildings, parts of buildings, fixtures or machinery, etc., shall be re-located or re-erected within the lines of any proposed street or other public improvement, title thereto shall thereupon become vested in The City of New York and a sale at public or private sale may be made in the same manner as if no prior sale thereof had been made.

The Comptroller of The City of New York reserves the right on the day of sale to withdraw from sale any of the buildings, parts of buildings and machinery included therein, or to reject any and all bids; and be it further

Resolved: That while the said sale is held under the supervision of the Commissioners of the Sinking Fund, the Comptroller is authorized to cause the sale to be advertised and to direct the sale thereof as financial officer of the City.

PROPOSALS FOR BIDS AND ESTIMATES FOR THE CITY OF NEW YORK.

NOTICE TO CONTRACTORS.

GENERAL INSTRUCTIONS TO BIDDERS.

The person or persons making a bid or estimate for any services, work, materials or supplies for The City of New York, or for any of its departments, bureau or officers, shall furnish the same in a sealed envelope, indorsed with the title of the supplies, materials, work or services for which the bid or estimate is made, with his or their name or names and the date of presentation to the President or Board or to the head of the department at his or its office, on or before the date and hour named in the advertisement for the same, at which time and place the estimates received will be publicly opened by the President or Board or head of said Department and read, and the award of the contract made according to law as soon thereafter as practicable.

Each bid or estimate shall contain the name and place of residence of the person making the same, and names of all persons interested with him; therein, and, if no other person be so interested, it shall distinctly state that fact; also, that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud, and that no member of the Board of Aldermen, head of a department, chief of a bureau, deputy thereof, or clerk thereof, or other officer of The City of New York is, shall be or become interested, directly or indirectly, as contracting party, partner, stockholder, surety or otherwise in or in the performance of the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate that the several matters stated herein are in all respects true.

No bid or estimate will be considered unless as a condition precedent to the reception or consideration of any proposal, it be accompanied by a certified check upon one of the State or National banks of The City of New York, drawn to the order of the Comptroller, or money or corporate stock, or certificates of indebtedness of any nature issued by The City of New York, which the Comptroller shall approve as of equal value with the security required in the advertisement to the amount of not less than three nor more than five per centum of the amount of the bond required, as provided in section 420 of the Greater New York Charter.

The amount shall be as specified in the proposals or instructions to bidders and shall not be in excess of 5 per cent.

The certified check or money should not be inclosed in the envelope containing the bid or estimate, but should be either inclosed in a separate envelope addressed to the head of the Department, President or Board, or submitted personally upon the presentation of the bid or estimate.

For particulars as to the quantity and quality of the supplies, or the nature and extent of the work, reference must be made to the specifications, schedules, plans, etc., on file in the said office of the President, Board or Department.

No bid shall be accepted from or contract awarded to any person who is in arrears to The City of New York upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation of the City.

The contract must be bid for separately.

The right is reserved in each case to reject all bids or estimates if it is deemed to be for the interest of the City so to do.

Bidders will write out the amount of their bids or estimates in addition to inserting the same in figures.

Bidders are requested to make their bids or estimates upon the blank forms prepared and furnished by the City, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the Department for which the work is to be done. Plans and drawings of construction work may also be seen there.