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FIRE DEPARTMENT.

Report for the Quarter and Year ending December 31, 1888.

HEADQUARTERS FIRE DEPARTMENT,
Nos. 157 AND 159 EAST SIXTY-SEVENTH STREET,
OFFICE BOARD OF COMMISSIONERS,
NEW YORK, February 13, 1889.

To the Hon. HUGH J. GRANT, Mayor of New York:

SIR—We have the honor to submit herewith the report of the operations and actions of this Department for the quarter ending December 31, 1888, and for the year ending on the same date:

On May 11, Police Commissioner Fitz John Porter was appointed Fire Commissioner for the unexpired term ending May 1, 1889.

Number of each Grade of Officers and Employees on December 31, 1888.

Headquarters—	
Commissioners	3
Secretary and Assistant Secretary	2
Medical Officers	3
Bookkeeper and Clerks	9
Typewriter and Stenographer	1
Janitor	1
Elevator Attendant	1
Watchmen	2
Machinist (Acting Engineer)	1
Stokers	3
Scrub Women	2
Bureau of Chief of Department—	
In Active Service—Uniformed Force—	
Chief of Department	1
Assistant Chief of Department and Second Assistant Chief of Department	2
Chiefs of Battalion	12
Foremen	80
Assistant Foremen	85
Engineers of Steamers	129
Firemen { First Grade	561
{ Second Grade	46
{ Third Grade	109
	716
	1,025
Ununiformed Force—	
Ununiformed Firemen (on probation)	3
Pilots on Fire Steamers	4
Engineers on Fire Steamers { Marine Engines {	2
Stokers on Fire Steamers { 43 and 51. {	6
	15
Total active service	1,040
Relieved from Service at Fires—Uniformed Force—	
Chief of Battalion	1
Foremen	6
Assistant Foremen	4
Engineer of Steamer	0
Firemen	10
Firemen, First Grade	22
Private	1
	50
	1,090
Bureau of Inspector of Combustibles—	
Inspector of Combustibles	1
Clerks	3
Surveyors	2
Oil Collectors	4
Bureau of Fire Marshal—	
Fire Marshal	1
Assistant to Fire Marshal	1
Clerks	3
Bureau of Inspection of Buildings—	
Superintendent of Buildings	1
Deputy Superintendent of Buildings	2
Clerks	23
Inspectors of Buildings	45
Messengers	3
Driver	1
Machinists to supervise elevators	4
Attorney to the Department	
Fire-alarm Telegraph—	
Superintendent of Telegraph	1
Chief Operator	1
Operators	4
Assistant Operators	5
Clerk	1
Inspector of Alarm Boxes	2
Batteryman and Assistant Batteryman	2
Foreman	1
Linemen	2

Repair Shops—	
Superintendent of Repairs to Buildings	1
Foreman	1
Storekeeper	1
Clerks	2
Shop Engineer	1
Machinists	19
Machinists' Helpers	5
Boiler-maker	1
Blacksmiths	7
Blacksmiths' Helpers	3
Wheelwrights	5
Wheelwrights' Helper	1
Harness-makers	2
Harness-makers' Helper	1
Hose Repairers	2
Painters	6
Watchmen	2
Drivers	5
Janitor	1
	66

Hospital Stables—	
Foreman	1
Stablemen	5
	6

Aggregate

Number of Changes by Resignation, Discharge, Death, Promotion, Appointment, etc., in each Grade.

GRADE.	LOSS BY						GAIN BY			Relieved From Service at Fires.
	Resignation.	Discharge.	Dismissal.	Promotion.	Death.	Dropped, etc.	Appointment.	Promotion.	Total.	
Commissioner .....	..	..	..	..	..	..	1	..	1	..
Clerks	1	..	..	..	..	..	1	5	6	..
Typewriter and Stenographer .....	..	..	..	..	..	..	1	..	1	..
Elevator Boy (or Attendant) .....	..	..	..	1	..	..	1	..	1	..
Chief of Battalion .....	..	..	..	..	..	..	1	1	1	1
Foremen .....	..	..	..	1	1	..	2	1	1	1
Assistant Foremen .....	..	..	..	1	..	..	1	1	1	2
Engineers of Steamer	1	..	..	1	2	..	4	9	9	2
Firemen First Grade .....	..	..	9	5	8	..	22	46	46	8
“ Second “	2	..	2	49	..	..	53	43	43	..
“ Third “	3	..	1	44	..	..	48	107	107	..
Ununiformed Firemen ..	1	..	1	107	..	..	109	112	112	..
Marine Engineers	1	..	..	..	..	..	1	1	1	..
Oil Surveyor .....	..	..	..	..	1	..	1	..	1	..
Oil Collector .....	..	..	..	..	..	..	1	..	1	..
Fire Marshal	1	..	..	..	..	..	1	1	1	..
Inspectors of Buildings	3	..	..	..	1	..	4	23	23	..
Supervisors of Elevators .....	..	..	..	..	..	..	2	..	2	..
Messenger	1	..	..	1	..	..	2	..	..	..
Assistant Operator	1	..	..	..	..	..	1	3	3	..
Linemen .....	..	..	..	1	..	..	1	..	..	..
Machinists	1	..	..	..	..	2	3	7	7	..
Machinists' Helper .....	..	..	..	..	..	2	2	3	3	..
Blacksmith .....	..	1	..	..	..	..	1	3	3	..
Blacksmiths' Helper .....	..	..	..	..	..	1	1	1	1	..
Wheelwright	2	..	..	..	..	..	2	1	1	..
Painter .....	..	..	..	..	..	..	1	..	1	..
Hose Repairer .....	..	..	..	..	..	1	1	..	..	..
Laborer .....	..	..	..	..	..	1	1	..	..	..
Watchman .....	..	..	..	1	..	..	1	..	..	..
Drivers .....	..	..	..	1	..	..	1	1	1	..
Stablemen	1	..	..	..	..	..	1	1	1	..
Total	19	1	13	213	13	7	266	162	216	378

Net aggregate gain since December 31, 1887

Additions and Amendments, etc., to the Rules and Regulations.

JANUARY 25, 1888.

(General Orders No. 1.)

The following rules in relation to the inspection of buildings by this Department are hereby prescribed and adopted:

I.—The Superintendent of Buildings is required to make reports of the operations and business transacted in his bureau as soon after the close of each quarter ending March 31, June 30, September 30, and December 31, as may be practicable, and to make immediate report in writing of all matters of extraordinary interest or importance requiring the attention or action of the Board.

II.—The Superintendent of Buildings shall be directly responsible to the Board of Commissioners for the proper conduct and management of his bureau. He is charged with the prompt execution and enforcement of all laws and ordinances, of all rules, regulations and orders of the Board of Fire Commissioners, general or special, so far as they are applicable to himself and his bureau, and with keeping an accurate record, in convenient form for reference, of the public business transacted therein.

III.—When the commanding officer at any fire shall report that the walls or any portion of the walls still standing are unsafe or liable to become unsafe, it shall be the duty of the Superintendent of Buildings to cause said walls to be immediately examined and to issue the necessary notices and directions in regard thereto.

IV.—The Deputy Superintendents of Buildings are charged with the same duties as the Superintendent of Buildings, during his absence, and with the performance of such work as the Superintendent may prescribe.

V.—The following instructions for Inspectors must be strictly obeyed:

1. They will report to the Superintendent of Buildings, or, in his absence, to the Deputy-Superintendent in charge, at the office of the bureau, at 9 o'clock A.M. each day, except Sundays and legal holidays, prepared to hand in the reports of the operations of the previous day in their respective districts, and upon receiving such instructions as may be given them will immediately proceed to the various quarters of the engine and hook and ladder companies and thence to the performance of duty within their respective districts, or to such special duty as may be assigned them.

2. Immediately after leaving the office, and between the hours of 5 and 5.30 P.M. each day, except Saturdays and legal holidays, from March 1 to October 31, both inclusive, and between the hours of 4 and 4.30 P.M., except Saturdays and legal holidays, from November 1 to February 28, both inclusive, they will report for the purpose of receiving any instructions it may be necessary to communicate to them, at the quarters of the engine or hook and ladder companies which may be designated by the Superintendent of Buildings.

3. On Saturdays they will report at the above places at 12 o'clock.

4. Unless by permission no Inspector will leave his district during working hours.

5. Each Inspector is required to keep a journal, and to make a daily report, in each of which will be entered a list of the papers received and turned in, the time of leaving the office and the buildings visited each day, whether new buildings or buildings being altered, unsafe buildings or buildings requiring fire-escapes or proper means of exit. The time of visit and condition of the work must be noted in the journal and daily report, which must be signed by the Inspector. The time of reporting at the company quarters will be entered in the journal by the house-watch over his signature. The daily report will be submitted to the Chief Clerk each morning for examination.

Books and blanks for the purpose will be furnished by the bureau, and will be the property of the Department, and must be surrendered by the inspector when leaving the Department.

6. Inspectors will make a report each Monday morning of every violation and unsafe building in their respective districts.

7. Inspectors are required to submit on the first day of each month a report, on the forms provided for that purpose, of such new buildings and alterations to buildings as have been commenced and completed during the preceding month.

8. Reports must be in writing on the forms provided by the Department, and be promptly presented at 9 o'clock A.M. Except where specially instructed, inspectors will not be permitted to write their reports in the office after that hour.

9. In cases of violations, the section of the law violated must be specified, and the language of the law quoted; and, as the forms are printed and easily understood, it is expected that there will be no necessity for returning them to the inspector for correction. No reports will be received unless properly made and written in ink. Any inspector who does not feel qualified to properly make a report of a violation, fire-escape or unsafe building, etc., will receive instructions upon application.

10. The inspectors will be provided with copies of the laws relating to the construction of buildings in this city, and it is expected that they will become thoroughly familiar with the provisions of the same.

11. All buildings in process of erection or alteration in the respective districts must be examined daily to see if they are being erected or altered in conformity to the laws and according to the terms and conditions of the plans and specifications as submitted and approved.

12. Should the inspector find a building or buildings being erected or altered without permit, he will so report and prefer a complaint against the persons so violating the law. Buildings in which bad materials are used will be reported, and the inspector will state in his report how much, if any, of the wall or walls in which such materials were used, must be taken down.

13. Should the parties using bad materials fail to cause the removal of the same within twenty-four hours, they must be reported by the inspector for prosecution.

14. When an application for a permit to put additional stories on a building, or to otherwise alter a building, is referred to an inspector for examination, he will measure the height of the building, the thickness of the walls in each story, the condition of the foundation walls, of what built, and ascertain if the materials are of a good quality and in a good condition. The examination must include the nature of the ground on which the foundation walls are laid, and the kind of sand used in the mortar, and the report must state how the building is occupied.

15. All examinations of buildings, whether of party walls or buildings which it is proposed to repair or alter, and all examinations of theatres or other public buildings, etc., are to be promptly reported.

16. Inspectors are required to make diligent search for unsafe buildings. When any unsafe building comes under the notice of, or is referred to the inspector for investigation, he will make a full report thereon, giving the exact location of the building, name of owner and occupant, the purpose for which the building is used, and whether persons are living in it. The report will also state in what particular the building is unsafe, and what is necessary to make it safe, and if there is danger of the building falling before legal proceedings can be taken for its removal.

17. The inspectors will report all buildings which require fire-escapes. When report is made on any building requiring fire-escapes with balconies, the windows which are to open on the balconies, and the area and yard, if any, together with a diagram of the building, must also be submitted. They will, within three days after the completion of a fire-escape, make report thereon.

18. All cases in which the means of escape ordered are not provided within thirty days from the date of the memorandum thereof referred to the inspector must be returned by him for prosecution.

19. Inspectors will give notice that all iron beams, lintels, or girders spanning openings over eight feet and used for supporting a wall or walls, must be inspected, under the supervision of an inspector duly authorized by the Superintendent of Buildings before being used. All iron columns not cast with an open side or back must have a three-eighths of an inch hole drilled in the shaft to determine the thickness of the castings.

20. The inspector, or inspectors, detailed for the purpose, will see that each piece is properly marked as to its capacity with the Department mark and date of approval. The use of any iron work as above specified on any building, unless the same be marked as above stated, is prohibited.

21. Inspectors are required to report what iron work is used on any and every building in their districts, and the weight which each piece is marked to sustain, so that it may be compared with the record in this office.

22. All complaints referred to the inspectors must be examined and reported on immediately on the forms provided for that purpose.

23. Inspectors will make separate monthly reports of unsafe cases and general violation cases on forms Nos. 18 and 34. They will hand in to the respective clerks the reports, etc., properly under their charge.

24. On stormy days the inspectors will be required to remain in the office, unless specially detailed on important business which admits of no delay, when they will be instructed in their duties, and how to perform them in the most effective manner.

25. Making false reports, or failing to comply with the regulations as above, on the part of any inspector, will be deemed sufficient ground for removal.

VI.—Instructions to supervisors of passenger elevators:

1. Each elevator in the City of New York used for the conveyance of passengers shall be inspected at least once in every two months, and a report thereof made to the Superintendent of Buildings on the day following such inspection. The supervisor will state in said report the condition of the running gear, ropes, safety attachments, pulleys and all other parts of machinery applied to the use of said elevator, and should any repairs be found necessary to be made, the Superintendent of Buildings shall cause immediate notice thereof to be served as hereinafter provided.

2. Should any defects be found to exist in any part or parts of any passenger elevator, which would tend to impair the safety or endanger life by the continued use of such elevator, the supervisor of elevators shall inform the person in charge of the danger of continuing the use thereof, and the Superintendent of Buildings shall immediately cause a notice in writing to be served upon the owner or owners, lessee, manager, or any other person or persons having the use, control or management of said elevator, which notice may contain a statement of the repairs necessary to be made; and said elevator shall not again be used until a certificate in writing shall be issued by the Superintendent of Buildings that it has been put in safe running order and is fit for use. The notice herein provided for may be served upon the person having charge of the running of said elevator.

3. The following qualifications necessary for persons who now are or shall hereafter be placed in charge of running any passenger elevator in this city are hereby prescribed, and no person shall be employed for such purpose or engaged therein unless he possesses such qualifications:

He shall have a knowledge of the different parts of the machinery attached to or necessary in running such elevators and understand the application thereof.

He shall have at least one month's experience in running an elevator under the instruction of a competent person.

He shall be reliable, and of industrious and sober habits.

He shall not be less than eighteen years of age.

4. Whenever the Superintendent of Buildings shall become satisfied that the person engaged in running any passenger elevator is incompetent or disqualified from any cause to continue to run the same, the said Superintendent of Buildings shall forthwith notify the owner or the person managing or controlling the same, and the person so notified shall thereafter become responsible for the acts of said employee.

5. The supervisors will report all passenger elevator shafts not properly enclosed, and all passenger elevator cars requiring doors.

VII.—The following instructions for clerks shall be strictly observed:

1. The office work of the bureau shall be divided into four classes, viz.:

First Class.—Plans of New Buildings and Alterations to Buildings.

Second Class.—Violations, Fire-escapes and Passenger Elevators.

Third Class.—Unsafe Buildings.

Fourth Class.—Complaints.

Each class will be under the charge of a clerk, who will be held responsible for all books and papers placed in his care, and for proper observance of the rules, as hereinafter provided.

2. The clerk at the head of the first class shall have charge of all applications for erection of new buildings and alterations, etc., to buildings (including plans or drawings); reports of inspectors on the condition of structures, index books of new buildings and alterations to buildings; dockets of new buildings and alterations to buildings and blanks for use of persons applying for permits. He will see that all applications are ready for report by the inspectors, and will report monthly and quarterly to the Chief Clerk the number of applications of the several kinds approved, disapproved, amended and approved, and pending, and of all buildings and alterations to buildings commenced, in progress, and completed.

3. The clerk at the head of the second class will have charge of all violations, fire-escape and passenger elevator cases, and the violation, fire-escape and passenger elevator books, and will be required to have the same written up. He will see that all notices for service in violation, fire-escape and elevator cases are properly made, and he will report monthly and quarterly to the Chief Clerk the number of violation, passenger elevator and fire-escape cases received, the number in which the laws have been complied with, the number forwarded to the Attorney for prosecution, and the number pending. He will also include in the monthly report the number of notices of the respective kinds prepared for service.

4. The clerk at the head of the third class will have charge of all unsafe building cases, and the unsafe index books and dockets, and will be required to have the same written up. He will receive all reports upon unsafe buildings, and prepare for service the necessary notices, and will report monthly and quarterly to the Chief Clerk all unsafe cases received, the number in which the law has been complied with, the number pending, the number in which surveys have been held, and the number of notices prepared for service. He will also prepare for the Board of Underwriters a list of all unsafe buildings reported during the month.

5. The clerk at the head of the fourth class will have charge of the complaints and complaint books, and will be required to have the same written up, and to have all complaints prepared for investigation by the inspectors. He will report monthly and quarterly to the Chief Clerk the number received, disposed of and pending.

6. The Chief Clerk will have charge of the office work, and shall be responsible for the proper care of the records of the bureau, and will see that applications for permits to build or alter are copied and docketed; and notices of violations, fire-escapes, unsafe buildings, etc., are prepared for service. He will have charge of the clerks and messengers and assign them to their various duties, and will keep a record of all absences of employees and make report thereof to the Superintendent. He shall act as Clerk to the Board of Examiners, as provided by section 31, chapter 456, Laws of 1885, and shall prepare a report of the operations of the bureau each quarter for transmittal to the Board of Commissioners on or before the 5th day of January, April, July and October.

7. It is expected that the work of the several classes will be completed at the close of office hours each day, so far as the same is practicable.

8. All notices must be entered in the notice-book and be delivered for service to the Chief Clerk before 9.15 A.M.

9. Notices made out before 3 o'clock each day will be of even date. Notices made out after 3 o'clock P.M. will be dated as of the following day.

10. All plans, reports, complaints, etc., received by the clerks in charge must be stamped with the date of receipt at the office.

11. All books and papers must be returned to their proper places after use. Official papers will in no case be retained by the clerks or kept in the desks after office hours.

12. Official papers must not be taken from the office without permission.

VIII.—All notices of violation of law and such other notices as may be necessary shall be served by the messengers or any employee of the Bureau of Inspection of Buildings in a careful, exact and proper manner, and the proper returns of service of such notices shall be made immediately thereafter.

IX.—The following instructions for making service of notices from the Bureau of Inspection of Buildings must be strictly observed:

1. Find the person addressed in the notice; inquire if he or she is interested in the property as stated, and, if so interested, serve the notice upon the person by delivering it to and leaving it with that person.

2. Do not leave the notice with any other person than the person addressed.

3. If there is any error as to ownership, leaseholdship, executorship, etc., in the notice return it with a memorandum of the correction required.

4. In the event of failure to find the person or persons addressed in the notice as owner or owners, after making diligent search and inquiry, post the notice in a conspicuous place on the premises described therein.

5. Make affidavit of service of notice, stating manner, time and place of such service, or in the event of failure to find the person or persons addressed, the particulars of the search and inquiry made, and of the posting of the notice on the premises described. The affidavit must be in the following form when the notice is served personally, viz.:

SERVICE OF NOTICE.

Violation,
Unsafe Building,
Fire Escape,
Unsafe Elevator,

Record No. (insert number).

City and County of New York, ss.:

..... of said city and county, being duly sworn, says that he is in the Bureau of Inspection of Buildings (as the case may be), in the Fire Department of the City of New York, and was duly authorized to serve the within notice; that on the day of 1888, at M., he served upon therein named, by delivering to and leaving with said in person, a notice, of which the within is a true and correct copy, and that he knows the person so served to be the same person described in said notice; and said admitted to deponent that he was (owner, or builder, or agent, etc., as the case may be) of the building therein described.

Subscribed and sworn to before me, }
this day of 1888, }

Notary Public, New York County.

6. The affidavit must be in the following form when the notice is served by posting the notice upon the premises, viz.:

SERVICE OF NOTICE.

Violation,
Unsafe Building,
Fire Escape,
Unsafe Elevator,

Record No. (insert number).

City and County of New York, ss.:

..... of said city and county, being duly sworn, says that he is in the Bureau of Inspection of Buildings (as the case may be), in the Fire Department of the City of New York, and was duly authorized to serve the within notice; that on the day of 1888, he posted a notice, of which the within is a true and correct copy, on the building therein described, having been unable to find (insert name) therein named, after diligent search for (him or her or them) (insert here the particulars of search and inquiry).

Subscribed and sworn to before me, this }
..... day of 1888, }

Notary Public, New York County.

7. If the notice to be served is for the survey of an unsafe building (as provided in section 34 of chapter 566 of the Laws of 1887), service must be made in the manner heretofore prescribed at least twenty-four hours before, but not more than three days before the time fixed in said notice for such survey.

8. If a firm is addressed in a notice, personal service upon one member thereof is sufficient. In serving a firm or partnership ascertain the names of the persons composing the firm, and state in the affidavit of service the name of the particular person served.

9. Where the party addressed is a corporation, the notice must be served upon an officer thereof.

10. In serving corporations be particular to insert the name and title of the person served in the affidavit of the service.

11. All reports and returns of service of notices, etc., herein required, shall be forwarded direct to the Superintendent of Buildings.

X.—The following from the general rules to govern the conduct of the Department officers are republished for the information and guidance of the officers and employees of the Bureau of Inspection of Buildings:

1. All official communications or communications in any manner relating to the official business of the Department, from either of the heads of bureaus, or superintendents or their subordinates, addressed to any national, State or municipal department, bureau or official, or to any unofficial corporation or person, whether verbal or written, shall be made through the office of the Board, unless otherwise specially directed by the President or the Board.

2. While in the service of this Department, its officers and subordinates shall not make use of or apply any portion of the time they may be required to devote to the performance of the duties devolved upon them, or any information they may have acquired therein, or any authority or power with which they may be clothed, in or for the furtherance of any private or corporate interests or purposes whatever.

3. Office hours at Headquarters shall be from 9 A. M. to 4 P. M., except Saturdays, when they shall be from 9 A. M. to 12 M., and on Sundays and legal holidays, when the offices (with the exception of the Telegraph office, which shall be open at all times) shall be closed for business. The office hours of the several bureaus, offices, etc., may, however, at any time be extended for the transaction of public business, if in the opinion of the Board of Commissioners, or of the officers in charge of the same, the interests of the public service shall require it.

4. All clerks must be at their desks and ready to begin the work of the day promptly at the beginning of the office hours, and punctually at the expiration of the noon-day meal hour, unless otherwise specially directed or excused by competent authority; and when any work they may have been directed to do is finished, it shall be their duty to report that fact at once to their immediate superior.

5. It is made the duty of all employees, in case of physical or other disability preventing their prompt appearance for duty at the required time, to report that fact to their immediate superiors in time to enable the substitution of another to perform their duties if necessary, and in order that in case of physical disability the Medical Officer may be promptly notified thereof.

6. One hour shall be allowed to each employee for noon-day luncheon or dinner by his immediate superior, in such manner as shall not interfere with the business of the office.

7. It shall be the duty of each employee to report before leaving, either before, at, or after the close of the regular office hours each day, to his immediate superior, or in the event of his absence, to the person in charge.

8. Smoking, sleeping, or dozing while on duty, during the regular office hours, is strictly prohibited, as well as the reading of newspapers, books, etc., by clerks, unless the same be in connection with the public business, or by special permission.

9. Interference in any manner by any employee with the duties of, or the performance of the same by another, or ungentlemanly conduct or language, or loud, boisterous or unnecessary conversation, remarks or noise, by employees in any of the offices at any time, is prohibited.

10. The public business transacted in and the records of the several bureaus and offices shall be treated as strictly confidential by the several officers and employees of the Department, and shall not be communicated except as may be directed by the Board or the President.

11. No one except the Secretary and the persons employed therein shall be admitted within the inclosures surrounding the desks in the several bureaus or offices unless specially permitted by the officers in charge of the same.

12. Absence without leave, tardiness, neglect of duty, insubordinate conduct, disobedience of orders or directions, inattention to duty, intoxication, ungentlemanly conduct or language, incompetency, or violations or infractions of any of the rules prescribed, on the part of either of the employees, shall constitute good and sufficient ground for charges against the offender or delinquent by his immediate superior; and, if such charges are sustained, the penalty shall be reprimand, transfer, suspension from pay and duty, or dismissal, as the Commissioners may determine.

13. Failure on the part of an employee, against whom charges may have been preferred, to present himself upon twenty-four hours' notice thereof shall, in the absence of evidence of physical or other sufficient disability to attend at the time specified in such notice, and presented prior thereto, be held to be equivalent to a plea of guilty by the accused to the charges preferred against him.

14. Heads of bureaus, superintendents, etc., shall prescribe all necessary rules for the government of the employees under their control and direction not herein contained.

15. Nothing contained in these rules shall preclude the Commissioners, the Secretary or either of the heads of bureaus or Superintendent from at any time requiring any or either of the employees of the Department serving under their directions, to perform such other duties (not herein specially prescribed for them) as the interests of the Department service may, in their opinion, demand or require.

XI.—A copy of this order, properly attested and addressed, will be served by the Superintendent of Buildings upon each of his subordinates as soon as received.

XII.—General Order No. 15, O. B. C., series of 1884, is hereby countermanded.

AUGUST 22, 1888.

(General Orders No. 2.)

The following rule adopted by the Board on this date is hereby promulgated:

It shall be the duty of every officer or employee of the Department upon observing, or in any manner becoming cognizant of any matter or information in any manner affecting the official duties or interests of any bureau, branch, or office of the Department, to make immediate report thereof to the head of such bureau, branch, or office.

AUGUST 30, 1888.

(Circular No. 3.)

At the present time, the Board of Fire Commissioners desire to call the especial attention of the members of the uniformed force to section 21, paragraph V, General Orders No. 15, O. B. C., series of 1881, and to notify both officers and men that the rule will be strictly enforced.

The rule referred to is as follows:

21. Not to be a delegate or representative to, or a member of, any political or partisan convention whose purpose is the nomination of a candidate for any political office.

Directions were also given not to permit absence from duty on election day, except for the most urgent reasons.

Appropriations (including Transfers) and Expenditures.

TITLE OF APPROPRIATION.	AMOUNT OF APPROPRIATION.	EXPENDITURES.	BALANCE.
For Salaries—			
Headquarters	\$50,630 00	\$50,628 43	\$1 57
Bureau Chief of Department.....	1,313,437 00	1,300,879 45	12,557 55
“ Inspector of Combustibles.....	12,200 00	12,167 62	32 38
“ Fire Marshal.....	6,001 00	6,000 80	20
“ Inspection of Buildings.....	98,900 00	97,651 40	1,248 60
Attorney.....	4,000 00	4,000 00	
Fire Alarm Telegraph.....	23,765 00	23,510 50	254 50
Repair Shops.....	60,000 00	59,999 46	54
Hospital Stables.....	5,160 00	5,112 65	47 35
Total salaries	\$1,574,093 00	\$1,559,950 31	\$14,142 69
For Apparatus, Supplies, etc.....	\$313,899 00	\$313,899 00	
For New houses for Hook and Ladder Co. No. 14 and in West Eighty-third street.....	38,500 00	38,500 00	
For placing fire-alarm electrical conductors under- ground.....	50,000 00	50,000 00	
Total apparatus, etc.....	\$402,399 00	\$402,399 00	
Grand total.....	\$1,976,492 00	\$1,962,349 31	\$14,142 69

Of the expenditures, the following amounts were, under contracts, awarded upon proposals advertised for as provided by law:

Apparatus, Supplies, etc.—	
For forage.....	\$36,135 00
For fuel.....	20,400 00
For new fire-engines.....	8,950 00
For new hose.....	20,120 00
For new trucks.....	6,800 00
For repairing fire-engines.....	5,600 00
For repairing fire-boat “Wm. F. Havemeyer”.....	11,000 00
For chartering steamboat “John Fuller”.....	3,900 00
For new tenders.....	1,690 00
For alteration of building No. 155 Mercer street.....	1,190 00

Total.....	\$124,785 00
For placing fire-alarm telegraph electrical conductors underground.....	47,717 25
For new houses in West Eighty-third street and Hook and Ladder Co. No. 14.....	36,648 00

Grand total..... \$209,150 25

Amount of Bills and Pay-rolls Audited.

Bills for 1886.....	\$100 00
“ 1887.....	44,969 66
“ 1888.....	321,426 34

Total bills.....	\$366,496 00
Pay-rolls for 1888.....	1,559,950 31

Total bills and pay-rolls..... \$1,926,446 31

Company Organization, Complement of Officers and Men, Kind and Number of Apparatus, and Number of Horses, Number of Alarms Responded to, etc.

COMPANY.	No. of Officers and Men.	APPARATUS.					Total No. of Horses.	No. of Alarms Responded to.	No. of Fires Performed Duty at.	REMARKS.
		No. of Steam Fire Engines, (2 horses each.)	No. of Four-wheel Tenders, (2 horses each.)	No. of Two-wheel Tenders, (1 horse each.)	No. of Hook and Ladder Trucks, (2 horses each.)					
Engine 1.....	12	1	1	..	..	4	196	81		{ Engine occasionally has 3 horses.
“ 2.....	12	1	..	1	..	3	126	49		
“ 3.....	12	1	1	..	..	4	90	27		
“ 4.....	12	1	..	1	..	3	128	67		
“ 5.....	18	2	1	1	..	7	162	43		Double company.
“ 6.....	12	1	..	1	..	3	99	38		
“ 7.....	16	1	..	1	..	5	176	50		Water Tower, 2 horses.
“ 8.....	12	1	1	..	..	4	193	45		
“ 9.....	12	1	1	..	..	5	265	80		{ Engine occasionally has 3 horses.
“ 10.....	12	1	1	..	..	4	59	28		
“ 11.....	12	1	1	..	..	4	193	67		
“ 12.....	18	2	..	2	..	6	106	74		Double company.
“ 13.....	18	2	..	2	..	6	188	63		Double company.
“ 14.....	12	1	1	..	..	4	173	89		
“ 15.....	12	1	1	..	..	4	232	69		
“ 16.....	18	2	1	1	..	7	170	48		Double company.
“ 17.....	12	1	..	1	..	3	290	92		
“ 18.....	18	2	1	1	..	7	133	44		Double company.
“ 19.....	12	1	1	..	..	4	122	35		
“ 20.....	12	1	..	1	..	3	204	57		
“ 21.....	12	1	1	..	..	4	105	59		
“ 22.....	12	1	1	..	..	4	141	40		
“ 23.....	12	1	1	..	..	4	110	46		
“ 24.....	12	1	1	..	..	4	102	38		
“ 25.....	12	1	..	1	..	3	158	40		
“ 26.....	18	2	1	1	..	7	227	83		Double company.
“ 27.....	18	2	1	1	..	7	133	49		Double company.
“ 28.....	12	1	1	..	..	4	125	25		
“ 29.....	12	1	..	1	..	3	119	59		
“ 30.....	12	1	1	..	..	4	139	57		
“ 31.....	18	2	..	2	..	6	159	53		Double company.
“ 32.....	12	1	..	1	..	3	101	57		
“ 33.....	18	2	..	2	..	6	145	59		Double company.
“ 34.....	12	1	1	..	..	4	160	57		
“ 35.....	12	1	..	1	..	3	165	52		
“ 36.....	12	1	1	..	..	4	159	45		
“ 37.....	14	1	1	..	..	4	86	22		Training stable.
“ 38.....	12	1	1	..	1	5	45	14		{ Four-wheeled tender has 1 horse.
“ 39.....	12	1	1	..	..	4	164	43		
“ 40.....	8	1	1	..	..	4	60	23		
“ 41.....	8	1	..	1	..	3	47	25		
“ 42.....	8	1	1	..	..	4	43	12		
“ 43.....	10	..	..	..	..	..	81	9		Floating engine.
“ 44.....	12	1	1	..	..	4	173	36		
“ 45.....	8	1	1	..	..	4	12	7		
“ 46.....	8	1	1	..	..	4	15	10		
“ 47.....	12	1	1	..	1	6	46	14		
“ 48.....	12	1	1	..	1	6	13	5		
“ 49.....	10	1	..	1	1	5	..	..
“ 50.....	12	1	1	..	1	6	47	20		
“ 51.....	10	..	..	..	..	..	99	9		Floating engine.
“ 52.....	12	1	1	..	1	6	5	4		
“ 53.....	12	1	1	..	..	4	164	38		
“ 54.....	12	1	..	1	..	3	165	58		
“ 55.....	12	1	..	1	..	3	91	39		

COMPANY.	No. of Officers and Men.	APPARATUS.					Total No. of Horses.	No. of Alarms Responded to.	No. of Fires Performed Duty at.	REMARKS.
		No. of Steam Fire Engines. (2 horses each.)	No. of Four-wheel Tenders. (2 horses each.)	No. of Two-wheel Tenders. (1 horse each.)	No. of Hook and Ladder Trucks. (2 horses each.)					
Hook and Ladder 1.....	12	..	..	..	1	3	262	183		Truck has 3 horses.
" 2.....	12	..	..	..	1	2	321	147		
" 3.....	16	..	..	..	1	5	241	154		{ Water Tower with 2 horses, Truck has 3 horses.
" 4.....	12	..	..	..	1	3	265	170		Truck has 3 horses.
" 5.....	18	..	..	..	2	4	189	102		Double company.
" 6.....	12	..	..	..	1	3	320	211		Truck has 3 horses.
" 7.....	12	..	..	..	1	2	257	148		
" 8.....	12	..	..	..	1	3	230	127		Truck has 3 horses.
" 9.....	19	..	..	..	2	5	255	147		{ Double company, one truck has 3 horses.
" 10.....	12	..	..	..	1	3	178	131		Truck has 3 horses.
" 11.....	12	..	..	..	1	3	205	103		Truck has 3 horses.
" 12.....	12	..	..	..	1	3	285	150		Truck has 3 horses.
" 13.....	13	..	..	..	1	2	176	90		
" 14.....	12	..	..	..	1	2	174	101		
" 15.....	12	..	..	..	1	4	97	69		Supply wagon with 2 horses.
" 16.....	12	..	..	..	1	3	200	109		Truck has 3 horses.
" 17.....	10	..	..	..	1	2	103	46		
" 18.....	12	..	..	..	1	3	298	187		Truck has 3 horses.
" 19.....	8	..	..	..	1	4	21	16		
Total.....	934	62	36	27	27	294				

Average number of alarms responded to by each company, 150. Average number of fires at which each company performed duty, 64.

The companies are organized into twelve battalions, consisting of from five to nine companies each commanded by a Chief of Battalion; the Assistant Chief of Department commands the First, Second, Third, Fourth, Fifth and Sixth Battalions, and the Second Assistant Chief of Department commands the Seventh, Eighth, Ninth, Tenth, Eleventh and Twelfth Battalions; the entire force is commanded by the Chief of Department.

Register of Officers of the Uniformed Force in Active Service on December 31.

NAME.	ORIGINAL APPOINTMENT.			PROMOTION.	
	Age.	Grade.	Date.	Grades.	Dates.
<i>Chief of Department.</i>					
Shay, Charles O.....	30	Foreman	Sept. 25, 1865	{ District Engineer.. Assistant Chief of Department	June 1, 1869 May 19, 1873 May 1, 1884
<i>Assistant Chief of Department.</i>					
Bonner, Hugh.....	27	Foreman	Sept. 18, 1865	{ Chief of Battalion.. 2d Assistant Chief of Department	May 21, 1873 Jan. 4, 1883 May 1, 1884
<i>Second Assistant Chief of Department.</i>					
McCabe, John.....	26	{ a Fireman..... Fireman.....	Sept. 26, 1866 July 1, 1873	{ Assistant Foreman.. Foreman	Dec. 1, 1873 July 1, 1874 May 16, 1881
<i>Chiefs of Battalion.</i>					
1. Gicquel, Benjamin A.....	24	Fireman	Oct. 16, 1865	{ Assistant Foreman.. Foreman	Jan. 22, 1866 June 1, 1866 July 1, 1871
2. Rowe, William.....	24	Foreman	Oct. 20, 1865	{ Chief of Battalion.. 2d Assistant Chief of Department	May 21, 1873 May 1, 1884
3. Fisher, John S.....	34	Fireman	Jan. 9, 1868	{ Assistant Foreman.. Foreman	June 1, 1868 July 15, 1869 May 21, 1873
4. Campbell, Samuel.....	23	Fireman	Oct. 16, 1865	{ Assistant Foreman.. Foreman	Aug. 1, 1869 Feb. 1, 1873 Sept. 23, 1875
5. Reilly, Francis J.....	22	Fireman	Sept. 27, 1865	{ Assistant Foreman.. c Foreman	Oct. 15, 1870 July 1, 1871 May 1, 1872
6. Brennan, John J.....	22	Fireman	Oct. 20, 1865	{ Assistant Foreman.. Foreman	June 6, 1872 Feb. 1, 1880 Aug. 4, 1886
7. Reeves, Michael F.....	27	Fireman	Apr. 16, 1867	{ Assistant Foreman.. Foreman	Oct. 15, 1870 Aug. 1, 1871 Nov. 1, 1881
8. Lally, Thomas.....	22	Fireman	Aug. 15, 1870	{ Assistant Foreman.. Foreman	Apr. 21, 1873 Nov. 1, 1881 May 1, 1884
9. Purroy, Charles D.....	24	Private	Jan. 22, 1880	{ Fireman	Apr. 1, 1880 Apr. 5, 1881 Dec. 31, 1882
10. McGill, Joseph F.....	23	Fireman	Mar. 21, 1866	{ Assistant Foreman.. Foreman	Apr. 1, 1870 Oct. 1, 1872 Aug. 12, 1884
11. Cashman, John J.....	22	Fireman	Oct. 17, 1866	{ Assistant Foreman.. Foreman	Feb. 15, 1872 Apr. 27, 1879 Aug. 4, 1880
12. Kehoe, John H.....	23	Fireman	Oct. 20, 1865	{ Assistant Foreman.. Foreman	June 15, 1869 Dec. 1, 1869 Dec. 23, 1888
<i>Foremen.</i>					
1. Poynton, Joseph.....	26	Foreman	Sept. 8, 1865		
2. Spence, Arnot.....	31	Foreman	Oct. 20, 1865		
3. McNeill, Alexander.....	29	Assistant Foreman	Oct. 16, 1865	Foreman.....	June 1, 1868
4. Donohue, Patrick.....	26	Fireman	Sept. 27, 1865	{ Assistant Foreman.. Foreman	June 1, 1868 Feb. 1, 1869
5. Best, Samuel.....	32	Fireman	June 14, 1866	{ Assistant Foreman.. Foreman	Apr. 17, 1867 Mar. 1, 1869

a Resigned, November 12, 1867.

b Dismissed, July 21, 1886, and reinstated by court, July 1, 1887.

c Reduced to Fireman, April 1, 1872.

d Reassigned as Chief of Battalion, July 1, 1887.

NAME.	ORIGINAL APPOINTMENT.		PROMOTION.		
	Age.	Grade.	Date.	Grades.	Dates.
6. Shaw, William.....	27	Assistant Foreman	Oct. 2, 1865	Foreman	May 1, 1869
7. McCormick, James A.....	27	Fireman	Oct. 6, 1865	{ Assistant Foreman.. Foreman	June 23, 1868 June 15, 1869
8. Castles, John	27	Fireman	July 27, 1866	{ Assistant Foreman.. Foreman	Apr. 1, 1869 July 15, 1869
9. McLaughlin, William.....	29	Fireman	May 22, 1868	{ Assistant Foreman.. Foreman	June 1, 1869 Mar. 1, 1870
10. Erb, George W.....	23	Fireman	Oct. 11, 1865	{ Assistant Foreman.. Foreman	Feb. 1, 1869 July 25, 1870
11. Hayes, William F	27	{ e Fireman..... Fireman.....	July 31, 1865 Apr. 1, 1866	{ Assistant Foreman.. Foreman	Oct. 1, 1869 Oct. 15, 1870
12. Landers, William H.....	41	Fireman	Sept. 29, 1865	{ Assistant Foreman.. Foreman	Nov. 17, 1869 Dec. 24, 1870
13. Wolff, Charles A.....	33	Fireman	Mar. 21, 1866	{ Assistant Foreman.. Foreman	Aug. 1, 1870 July 1, 1871
14. Meagher, Daniel J.....	23	Fireman	Oct. 6, 1865	{ Assistant Foreman.. Foreman	Dec. 24, 1870 Nov. 1, 1871
15. Vetter, Peter, Jr.....	26	Fireman	Oct. 27, 1865	{ Assistant Foreman.. Foreman	June 1, 1868 May 1, 1872
16. Cowie, John A.....	30	Assistant Foreman	Sept. 14, 1865	Foreman	Mar. 1, 1873
17. Jones, Henry M.....	27	Assistant Foreman	Sept. 27, 1865	Foreman	Mar. 1, 1873
18. Ward, John	26	Fireman	Sept. 25, 1865	{ Assistant Foreman.. Foreman	Jan. 1, 1870 Mar. 1, 1873
19. Sattler, John.....	29	Fireman	Oct. 20, 1865	{ Assistant Foreman.. Foreman	July 1, 1871 Mar. 1, 1873
20. Sheridan, Philip	23	Fireman	Oct. 20, 1865	{ Assistant Foreman.. Foreman	July 1, 1871 June 16, 1873
21. Connor, David	25	Fireman	July 31, 1865	{ Assistant Foreman.. Foreman	Nov. 1, 1871 June 16, 1873
22. Welsh, John	23	Fireman	Oct. 11, 1865	{ Engineer of Steamer.. Assistant Foreman.. Foreman	Aug. 1, 1866 Feb. 15, 1872 June 16, 1873
23. Chambers, Charles	31	{ Engineer of Steamer.... }	Sept. 14, 1865	{ Assistant Foreman.. Foreman	July 1, 1873 Dec. 1, 1873
24. Perley, Hamilton F.....	21	{ Ass't Engineer.. of Steamer. }	Mar. 15, 1873	{ Assistant Foreman.. Foreman	Jan. 15, 1874 Aug. 1, 1874
25. Judge, Thomas	32	Fireman	June 28, 1866	{ Assistant Foreman.. Foreman	Oct. 18, 1873 Dec. 21, 1874
26. Monroe, James H.....	29	Fireman	Oct. 16, 1865	{ Foreman	Apr. 17, 1867
27. Van Horn, Thomas J.....	26	Fireman	May 6, 1871	{ District Engineer.. Chief of Battalion.. Foreman	July 1, 1871 May 21, 1873 Feb. 15, 1875
28. Hamblett, Roger B.....	21	Fireman	Sept. 11, 1865	{ Assistant Foreman.. Foreman	Jan. 15, 1874 Mar. 1, 1875
29. Kittson, Hugh	28	Fireman	Sept. 25, 1865	{ Assistant Foreman.. Foreman	June 1, 1866 Mar. 1, 1875
30. Eagan, John J	25	Fireman	Sept. 11, 1865	{ Assistant Foreman.. Foreman	July 1, 1873 Mar. 1, 1875
31. Fisher, Isaac.....	22	{ g Engineer of Steamer.... } { Ass't Engineer.. of Steamer. }	Oct. 1, 1869 Nov. 1, 1872	{ Assistant Engineer of Steamer	Oct. 15, 1870 Aug. 20, 1875
32. Wray, Robert.....	23	Fireman	Oct. 16, 1865	{ Engineer of Steamer.. Assistant Foreman.. Foreman	July 1, 1873 Sept. 1, 1874 Mar. 12, 1877
33. Bradley, Daniel	30	Fireman	Mar. 1, 1866	{ Assistant Foreman.. Foreman	Mar. 1, 1873 Apr. 3, 1878
34. Bermingham, William.....	34	Fireman	Dec. 15, 1873	{ Assistant Foreman.. Foreman	Oct. 1, 1875 Dec. 8, 1879
35. Farrell, Robert R.....	26	{ h Ass't Engin'r.. of Steamer.... } { Ass't Engineer.. of Steamer.. }	Nov. 1, 1871 Mar. 15, 1873	.....	.....
36. Fleming, William H	22	Fireman	Oct. 17, 1870	{ Assistant Foreman.. Foreman	Jan. 15, 1874 Mar. 1, 1875
37. Shay, Charles H	21	Private	Nov. 21, 1877	{ Assistant Engineer of Steamer	Aug. 2, 1877 Mar. 17, 1880
38. Perley, Charles H.....	22	Private	Jan. 17, 1879	{ Assistant Foreman.. Foreman	Apr. 1, 1879 Apr. 4, 1879 Dec. 10, 1879 June 1, 1880
39. O'Brien, Edward.....	25	Fireman	July 1, 1869	{ Assistant Foreman.. Foreman	Feb. 1, 1879 Aug. 25, 1880
40. Brown, William W	23	Fireman	June 14, 1866	{ Assistant Foreman.. Foreman	Mar. 1, 1873 Apr. 1, 1881
41. Byrne, Joseph P.....	28	Fireman	Oct. 1, 1871	{ Assistant Foreman.. Foreman	Dec. 1, 1873 May 1, 1881
42. Duane, William	28	Fireman	Aug. 8, 1868	{ Assistant Foreman.. Foreman	July 20, 1871 Nov. 1, 1881
43. Colby, William J	30	Fireman	July 7, 1875	{ Assistant Foreman.. Foreman	June 1, 1877 Nov. 1, 1881
44. Searle, George S	21	Fireman	Nov. 15, 1874	{ Assistant Foreman.. Foreman	July 22, 1880 Nov. 18, 1881
45. Shaw, Joseph.....	28	{ i Engineer of Steamer.... } { Ass't Engineer.. of Steamer. }	Oct. 13, 1865 Feb. 1, 1874	{ Engineer of Steamer.. Assistant Foreman.. Foreman	Mar. 15, 1874 Aug. 8, 1879 Dec. 31, 1882
46. Cusick, George.....	24	Fireman	Apr. 21, 1869	{ Assistant Foreman.. Foreman	Mar. 15, 1874 Apr. 18, 1883
47. Short, Peter H.....	26	Fireman	May 1, 1875	{ Assistant Foreman.. Foreman	June 1, 1880 Apr. 18, 1883 Aug. 4, 1885 July 1, 1888
48. McAdams, Henry W	23	Fireman	Sept. 18, 1874	{ Assistant Foreman.. Foreman	June 1, 1880 Nov. 1, 1881 May 23, 1883
49. Gleason, Luke.....	25	{ k Fireman..... Fireman.....	Jan. 1, 1869 Dec. 1, 1872	{ Assistant Foreman.. Foreman	Apr. 8, 1880 July 1, 1883
50. Murray, Henry	24	{ l Fireman..... Fireman.....	Oct. 13, 1865 Dec. 17, 1874	.....	.....
51. Gooderson, Frederick W., Jr.....	23	Private	Oct. 13, 1879	{ Assistant Foreman.. Foreman	Oct. 1, 1877 Jan. 15, 1884

e Resigned, January 15, 1866.

f Reduced to Foreman, February 15, 1875.

g Resigned, May 21, 1872.

h Resigned, May 21, 1872.

i Resigned, October 16, 1871.

j Reassigned as Foreman, July 1, 1887.

k Resigned, June 1, 1872.

l Resigned, March 31, 1869.

NAME.	ORIGINAL APPOINTMENT.			PROMOTION.		NAME.	ORIGINAL APPOINTMENT.			PROMOTION.	
	Age.	Grade.	Date.	Grades.	Dates.		Age.	Grade.	Date.	Grades.	Dates.
52. McCutchen, James	31	Fireman	Sept. 18, 1865	{ Assistant Foreman. Foreman	Mar. 1, 1869 May 20, 1884	25. O'Reilly, Patrick H.	23	Fireman	Aug. 21, 1875	Assistant Foreman.	July 20, 1880
53. Hart, Michael	28	Fireman	Oct. 20, 1865	{ Assistant Foreman. Foreman	July 1, 1871 May 20, 1884	26. Kerrigan, Francis	29	Fireman	May 1, 1875	Assistant Foreman.	Sept. 16, 1880
54. Connolly, Patrick J.	28	Fireman	Jan. 15, 1873	{ Assistant Foreman. Foreman	Nov. 16, 1881 May 20, 1884	27. Case, Wright, Jr.	25	Fireman	May 1, 1875	Assistant Foreman.	Nov. 12, 1881
55. McCabe, Hugh D.	25	Private	Feb. 9, 1882	{ Assistant Foreman. Foreman	July 22, 1883 May 20, 1884	28. McCarthy, John	29	Fireman	Sept. 15, 1871	Assistant Foreman.	June 9, 1881
56. Shea, Joseph	29	Foreman	May 20, 1884			29. Moss, Joseph	28	Fireman	Dec. 1, 1871	Assistant Foreman.	Nov. 1, 1881
57. Cosgrove, James	21	Private	Jan. 1, 1878	{ Assistant Engineer of Steamer. Assistant Foreman. Foreman	Mar. 21, 1880 July 1, 1881 June 6, 1884	30. Gerity, James J.	24	Fireman	Feb. 1, 1874	Assistant Foreman.	Nov. 1, 1881
58. Falvey, John	21	{ Fireman. Fireman	Mar. 11, 1871 July 18, 1874	{ Assistant Foreman. Assistant Foreman. Foreman	Feb. 15, 1872 Nov. 1, 1881 Aug. 1, 1884	31. Kelly, Thomas	28	Fireman	Sept. 18, 1865 June 15, 1867	Assistant Foreman.	Nov. 25, 1881
59. McDonald, Alex.	28	{ Fireman. Fireman	July 31, 1865 June 12, 1873	{ Assistant Foreman. Foreman	Jan. 7, 1876 Aug. 7, 1884	32. Hyde, David	27	Fireman	July 17, 1873	Assistant Foreman.	Mar. 22, 1882
60. Scannell, Edw. A.	24	Private	Apr. 7, 1881	{ Assistant Foreman. Foreman	May 20, 1884 Aug. 16, 1884	33. Farley, Thomas	25	Fireman	May 13, 1868 Sept. 1, 1869	Assistant Foreman.	Apr. 10, 1882
61. Binns, John	25	Private	Mar. 22, 1882	{ Assistant Foreman. Foreman	May 20, 1884 Aug. 16, 1884	34. Murphy, John	24	Fireman	Oct. 17, 1870	Assistant Foreman.	Aug. 7, 1882
62. Golden, John J.	30	Fireman	Dec. 18, 1874	{ Assistant Foreman. Foreman	Feb. 1, 1883 Aug. 22, 1884	35. Aiken, Alex. D.	24	Fireman	July 19, 1871	Assistant Foreman.	Dec. 1, 1882
63. Barry, James	23	{ Hoseman. Fireman	Jan. 20, 1874 Feb. 12, 1876	{ Assistant Foreman. Foreman	May 20, 1884 Aug. 22, 1884	36. Barber, John	26	Fireman	Nov. 3, 1870	Assistant Foreman.	Feb. 1, 1883
64. Sullivan, Thomas	26	{ Dist. Engineer. Fireman	Sept. 6, 1865 Aug. 23, 1884			37. Daniels, Clement L.	25	Fireman	Oct. 11, 1873	Assistant Foreman.	Mar. 4, 1883
65. Kenny, Thomas A.	29	Fireman	Aug. 4, 1876	{ Assistant Foreman. Foreman	July 10, 1879 Feb. 1, 1885	38. Ryan, Ed. F.	22	Fireman	July 3, 1872	Assistant Foreman.	Mar. 6, 1883
66. Lawler, Daniel	24	Fireman	May 1, 1875	{ Assistant Foreman. Foreman	Aug. 16, 1884 Feb. 1, 1885	39. Murphy, Lawrence	24	Fireman	June 12, 1871	Assistant Foreman.	May 17, 1883
67. Callaghan, Daniel H.	26	Fireman	Mar. 1, 1873	{ Assistant Foreman. Foreman	July 10, 1879 June 25, 1885	40. Kennedy, Math. T.	28	Private	Dec. 21, 1877	{ Assistant Engineer of Steamer. Assistant Foreman.	Nov. 21, 1878 May 23, 1883
68. Cook, Martin	23	Hoseman	Jan. 1, 1870	{ Assistant Engineer of Steamer. Engineer of Steamer. Assistant Foreman. Foreman	July 24, 1871 Jan. 13, 1874 Jan. 15, 1874 Mar. 1, 1875 Nov. 15, 1885	41. Margison, Charles	27	Private	Jan. 22, 1877	{ Assistant Engineer of Steamer. Assistant Foreman.	May 1, 1879 May 23, 1883
69. Teal, Henry	21	Fireman	Aug. 1, 1871	{ Assistant Foreman. Foreman	Sept. 22, 1880 Nov. 15, 1885	42. Jones, William H.	29	Ladderman	Sept. 25, 1875	{ Private. Assistant Foreman.	Apr. 1, 1878 May 23, 1883
70. Cooney, John J.	29	Private, 3d Grade	Sept. 1, 1882	{ Assistant Engineer of Steamer. Assistant Foreman. Foreman	June 6, 1884 July 1, 1885 Nov. 15, 1885	43. Needham, John T.	27	Private	Jan. 1, 1881	Assistant Foreman.	May 23, 1883
71. Ahearn, Thomas J.	23	Fireman	May 9, 1873	{ Assistant Foreman. Foreman	Apr. 1, 1881 Feb. 25, 1886	44. Murphy, John McL.	23	Private	Nov. 21, 1881	Assistant Foreman.	May 23, 1883
72. White, John H.	30	Fireman	Jan. 2, 1875	{ Assistant Foreman. Foreman	Feb. 1, 1883 Feb. 25, 1886	45. Hopper, Charles	25	Fireman	Mar. 2, 1870 Feb. 12, 1876	Assistant Foreman.	Aug. 1, 1883
73. Fraser, William D.	24	Fireman	July 3, 1872	{ Assistant Foreman. Foreman	May 20, 1884 Dec. 1, 1886	46. Meehan, Edward	24	Fireman	July 23, 1870	Assistant Foreman.	Aug. 13, 1883
74. Croker, Edward F.	21	Private	June 22, 1884	{ Assistant Foreman. Foreman	Aug. 16, 1884 Feb. 25, 1886	47. Beekler, Jacob	24	Fireman	Mar. 15, 1871	Assistant Foreman.	Nov. 1, 1883
75. McNamara, Michael J.	25	Fireman	Apr. 21, 1873	{ Assistant Foreman. Foreman	Aug. 27, 1884 Dec. 1, 1886	48. Autenreith, Charles J.	25	Private	Feb. 12, 1881	{ Assistant Engineer of Steamer. Assistant Foreman.	Dec. 17, 1881 May 20, 1884
76. Nugent, James M.	24	Private	Jan. 4, 1884	{ Assistant Foreman. Foreman	July 1, 1885 Jan. 15, 1887	49. Hearn, John	24	Fireman	Sept. 11, 1865	Assistant Foreman.	May 20, 1884
77. O'Hearn, Thomas	29	Fireman	June 12, 1875	{ Assistant Foreman. Foreman	July 1, 1883 Feb. 1, 1887	50. Head, Thomas	26	Fireman	Feb. 15, 1869	Assistant Foreman.	May 20, 1884
78. Siegmann, Louis L.	24	Fireman	Feb. 8, 1871	{ Assistant Foreman. Foreman	Jan. 15, 1874 Mar. 1, 1887	51. Touhey, Martin J.	23	Fireman	Mar. 15, 1872	Assistant Foreman.	May 20, 1884
79. McAvoy, Michael	25	Fireman	Dec. 1, 1865	{ Assistant Foreman. Foreman	Dec. 31, 1882 May 6, 1887	52. Donohue, Malachi	24	Fireman	June 10, 1870 Dec. 1, 1873	Assistant Foreman.	Oct. 17, 1872 May 20, 1884
80. Quirk, William	27	Private	May 19, 1881	{ Assistant Foreman. Foreman	May 20, 1884 Sept. 1, 1888	53. Gaffney, Andrew	27	Fireman	Dec. 1, 1873	Assistant Foreman.	May 20, 1884
Assistant Foremen.						54. Reed, Samuel	25	Fireman	Sept. 1, 1875	Assistant Foreman.	May 20, 1884
1. Schuck, Henry	33	Fireman	Sept. 18, 1865	Assistant Foreman.	Nov. 22, 1865	55. Hennessey, William	30	Private	Dec. 21, 1874 Jan. 18, 1882	Assistant Foreman.	May 20, 1884
2. Smith, Edward S.	23	Fireman	Sept. 11, 1865	Assistant Foreman.	Dec. 15, 1868	56. Leonard, John H.	32	Private	Feb. 1, 1877	{ Assistant Engineer of Steamer. Engineer of Steamer. Assistant Foreman.	Apr. 13, 1877 Apr. 20, 1877 Oct. 4, 1878 Aug. 16, 1884
3. Hicks, Matthew	21	Fireman	Aug. 10, 1868	Assistant Foreman.	Oct. 15, 1870	57. O'Grady, Joseph	27	Private	Nov. 24, 1877	{ Assistant Engineer of Steamer. Assistant Foreman.	Oct. 20, 1880 Aug. 16, 1884
4. Riordan, John	21	Fireman	Sept. 20, 1866	Assistant Foreman.	Nov. 1, 1871	58. Reilly, Bernard J.	27	Fireman	May 1, 1875	Assistant Foreman.	Aug. 21, 1884
5. Lynar, Andrew	28	Fireman	Jan. 21, 1868	Assistant Foreman.	Feb. 15, 1872	59. Reilly, Michael A.	22	Private	Apr. 4, 1881	Assistant Foreman.	Aug. 21, 1884
6. Brennan, Terence P.	25	Fireman	Oct. 6, 1865	Assistant Foreman.	July 1, 1872	60. Kinsella, Henry	27	Private	Feb. 3, 1883	Assistant Foreman.	Aug. 27, 1884
7. McNamee, Charles	28	Fireman	July 1, 1869	Assistant Foreman.	Mar. 1, 1873	61. McNamara, John J.	26	Fireman	Dec. 7, 1877	{ Assistant Engineer of Steamer. Assistant Foreman.	Apr. 11, 1880 July 1, 1885
8. Jones, Walter H.	25	Fireman	Oct. 21, 1870	Assistant Foreman.	Mar. 1, 1873	62. Petersen, Adolph J.	25	Fireman	Oct. 25, 1873	Assistant Foreman.	July 1, 1885
9. Conaghan, Patrick	23	Fireman	Oct. 20, 1865	Assistant Foreman.	Apr. 21, 1873	63. Tobin, Edward H.	22	Fireman	May 4, 1875	Assistant Foreman.	July 1, 1885
10. Braisted, William C.	25	Fireman	July 3, 1872	Assistant Foreman.	June 16, 1873	64. Beshinger, Joseph	23	Private	May 10, 1880	Assistant Foreman.	July 1, 1885
11. Campbell, James A.	27	Fireman	Sept. 29, 1865	Assistant Foreman.	Aug. 15, 1873	65. Banta, Samuel	28	Private	Jan. 22, 1883	Assistant Foreman.	July 1, 1885
12. Moore, Edward S.	31	Fireman	Oct. 16, 1865	{ Assistant Foreman. Assistant Foreman.	Dec. 1, 1865 Nov. 3, 1873	66. Gormley, Patrick	28	Private	May 15, 1884	Assistant Foreman.	July 1, 1885
13. Louis, Albert F.	24	Fireman	Sept. 14, 1865	{ Assistant Engineer of Steamer. Engineer of Steamer. Assistant Foreman.	Apr. 1, 1871 Sept. 11, 1872 Jan. 15, 1874	67. Ryan Patrick F.	28	{ Engineer of Steamer. Ass't Engineer of Steamer.	Nov. 1, 1871 Sept. 6, 1874	{ Engineer of Steamer. Assistant Foreman.	July 21, 1875 Nov. 15, 1885
14. Burnett, Henry	33	Fireman	Sept. 22, 1865	Assistant Foreman.	Jan. 15, 1874	68. Delaney, James	23	Fireman	Aug. 1, 1869	{ Assistant Engineer of Steamer. Engineer of Steamer. Assistant Foreman.	Mar. 16, 1871 Nov. 16, 1883 Nov. 15, 1885
15. Cartrighr, Stephen	27	Fireman	Aug. 1, 1871	Assistant Foreman.	May 15, 1874	69. Honan, John S.	25	Private	May 8, 1883	Assistant Foreman.	Nov. 15, 1885
16. Flock, William F.	27	Ass't Foreman	Sept. 8, 1865	Assistant Foreman.	Oct. 15, 1870	70. McAlister, Bernard	31	Private	Dec. 3, 1877	{ Assistant Engineer of Steamer. Engineer of Steamer. Assistant Foreman.	June 1, 1880 Jan. 1, 1886 Feb. 1, 1886
17. Carey, Francis	25	Fireman	June 2, 1868	Assistant Foreman.	Dec. 21, 1874	71. Shute, James H.	23	Fireman	Oct. 17, 1873	Assistant Foreman.	Feb. 1, 1886
18. Wright, Aug. H.	29	Fireman	May 4, 1875	Assistant Foreman.	May 1, 1876	72. Burns, John J.	21	Private	Aug. 17, 1883	Assistant Foreman.	Feb. 1, 1886
19. Kruger, Charles W., Jr.	22	{ Ass't Engineer of Steamer.	July 3, 1872	Assistant Foreman.	Sept. 27, 1877	73. Martin, Michael	26	Fireman	July 1, 1873	Assistant Foreman.	Dec. 1, 1886
20. Kenchan, Richard F.	30	Fireman	July 1, 1875	Assistant Foreman.	Apr. 3, 1878	74. Miller, William	28	Private	Apr. 2, 1881	Assistant Foreman.	Dec. 1, 1886
21. Fian, John	29	Fireman	Sept. 20, 1866	Assistant Foreman.	Aug. 21, 1878	75. Flaherty, James	29	Private	Feb. 15, 1882	Assistant Foreman.	Dec. 1, 1886
22. McCarthy, Patrick	25	Fireman	June 15, 1872	Assistant Foreman.	Apr. 27, 1879	76. Whelan, John T.	29	Fireman	May 20, 1884	Assistant Foreman.	Dec. 1, 1886
23. O'Rourke, Owen	25	Fireman	Sept. 22, 1865 Feb. 12, 1875	Assistant Foreman.	July 10, 1879	77. Taylor, Joseph W.	25	Fireman	Jan. 1, 1873	Assistant Foreman.	Mar. 1, 1887
24. Browning, William	21	Fireman	Apr. 23, 1869	{ Assistant Engineer of Steamer. Engineer of Steamer. Assistant Foreman.	June 1, 1871 Aug. 1, 1874 Feb. 1, 1880	78. Nash, William H.	21	Fireman	Sept. 9, 1876	{ Assistant Engineer. Engineer. Assistant Foreman.	Oct. 1, 1876 Jan. 1, 1886 Feb. 1, 1887
m Dismissed, June 19, 1874. n Resigned, June 8, 1872. o Resigned July 1, 1875. p Dropped, May 21, 1873. q Reduced to Assistant Foreman, Decemb 12, 1875.						79. Burke, Coleman J.	22	Private	Jan. 1, 1878	{ Assistant Engineer. Engineer. Assistant Foreman.	Jan. 17, 1880 Jan. 1, 1886 Feb. 1, 1887
r Reduced to ranks, May 9, 1866. s Reduced to Assistant Foreman, June 24, 1874. t Discharged while detailed as Carpenter January 1, 1875. u Resigned, September 16, 1872. v Resigned, September 29, 1865.						80. Norris, Richard J.	25	Private	July 15, 1879	Assistant Foreman.	Feb. 1, 1887
						81. Reilly, Michael F.	29	Private	Jan. 13, 1880	Assistant Foreman.	Feb. 1, 1887
						82. Farrell, George F.	25	Private	Nov. 1, 1880	Assistant Foreman.	Feb. 1, 1887
						83. Reilly, Henry P.	21	Private	Oct. 21, 1881	Assistant Foreman.	Dec. 27, 1887
						84. McCartney, Jas. J.	28	Fireman	Aug. 1, 1884	Assistant Foreman.	Dec. 27, 1887
						85. Naughton, John J.	23	Private	Dec. 1, 1881	{ Assistant Engineer. Engineer. Assistant Foreman.	Feb. 2, 1883 Feb. 1, 1885 June 1, 1888
						w Dismissed August 10, 1869. x Resigned, August 1, 1871.					
						y Dismissed, November 23, 1873. z Dismissed, October 19, 1876.					
						aa Resigned, November 3, 1873. bb Resigned, Nov. 3, 1873.					

Year of Entry into the Uniformed Force of Officers and Members in Active Service on December 31.

APPOINTED IN—	OFFICERS.	ENGINEERS.	FIREMEN.	TOTAL.
1865.....	51	9	35	95
1866.....	12	5	16	33
1867.....	1	2	1	4
1868.....	7	6	7	20
1869.....	9	6	18	33
1870.....	6	2	14	22
1871.....	14	2	8	24
1872.....	5	4	22	31
1873.....	15	7	43	65
1874.....	6	8	35	49
1875.....	13	7	21	41
1876.....	2	..	8	10
1877.....	7	10	3	20
1878.....	2	1	2	5
1879.....	3	7	6	16
1880.....	4	11	26	41
1881.....	9	4	32	45
1882.....	4	3	49	56
1883.....	4	9	70	83
1884.....	6	11	73	90
1885.....	..	5	32	37
1886.....	..	7	48	55
1887.....	..	3	41	44
1888.....	..	..	106	106
	180	129	716	1,025

Number and Character of Alarms, Manner of Receipt and Cause.

ALARMS.	MANNER OF RECEIPT.					CAUSE.														
	From Department Street Alarm-boxes.	Special Department Telegraph Signals.	Verbally.	Automatic Telegraph.	Total.	Accidents.	Cry of "Fire."	Error.	Exhibition of Department.	Explosions.	Fire outside of City.	Heat and Disarrangement of Anti. Telegraph.	Ignorance.	Malicious Mischief.	Not ascertained.	Reflection from Stoves, etc.	Reflection of Distant Fire.	Smoke, etc., issuing from Premises.	Fire.	Total.
Unnecessary....	33	5	8	46	94	8	4	1	..	3	..	44	7	14	12	..	1	..	..	94
Indication of fire	71	2	37	1	111	..	..	..	..	..	..	..	..	..	..	11	..	100	..	111
Fires.....	1,745	31	1,437	3	3,217	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,217
Total....	1,851	39	1,482	50	3,422	8	4	1	..	3	..	44	7	14	12	11	1	100	..	3,422

309 alarms were communicated by attachés of this Department, of which 307 proved to be for fires.

1,198	"	"	Police	"	1,172	"	"
598	"	"	District key-holders,	"	551	"	"
907	"	"	Citizen	"	1,066	"	"
1,110	"	"	all other means,	"	991	"	"
3,422	"	"	all the various means,	"	3,217	"	"

Statistics of Fires.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
In buildings—													
Confined to point of starting	346	252	254	247	200	252	294	204	178	168	206	250	2,888
Confined to building.....	24	22	17	25	15	9	16	14	10	12	16	19	200
Extended to other buildings.....	4	5	7	2	6	7	6	1	1	4	3	3	49
Number in buildings	374	286	278	275	221	268	316	219	139	184	225	302	3,137
In vessels.....	4	2	1	2	..	..	2	2	2	3	4	4	26
In other places (woods, etc.)	1	2	6	6	6	4	7	11	..	3	5	3	54
Total	379	290	285	283	227	272	325	232	151	190	234	309	3,217
Extinguished—													
Without engine stream.....	227	171	180	179	146	202	225	162	122	125	147	191	2,078
With one engine stream.....	89	72	59	60	43	44	65	44	45	39	45	80	686
With two or three engine streams	49	33	35	33	28	16	28	22	21	18	32	32	347
With more than three engine streams.	14	14	11	11	10	10	6	4	3	8	9	6	106
Total	379	290	285	283	227	272	325	232	151	190	234	309	3,217
Extent of damage to buildings and vessels—													
Built mainly of brick, stone or iron :													
Slight.....	111	88	95	85	62	64	71	43	52	54	58	79	862
Considerable.....	8	8	10	9	5	5	7	7	2	1	8	2	72
Destroyed	3	..	3	..	1	2	..	..	..	..	..	..	9
Total	122	96	108	94	68	71	78	50	54	55	66	81	943

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Extent of damage to buildings and vessels—													
Built mainly of wood :													
Slight.....	20	20	17	15	9	10	12	9	8	5	8	9	142
Considerable.....	4	2	3	4	1	3	4	3	2	3	4	1	34
Destroyed .....	..	2	1	1	..	..	4	..	..	..	1	..	9
Total	24	24	21	20	10	13	20	12	10	8	13	10	185
Total buildings and vessels damaged.	146	120	120	114	78	84	93	62	64	63	79	91	1,128
To which the damage was—													
Slight.....	131	118	112	100	71	74	83	52	60	59	66	83	1,004
Considerable	12	10	13	13	6	8	11	10	4	4	12	3	106
Destroyed	3	2	4	1	1	2	4	..	..	..	1	..	18
Number of fires resulting in damage to contents only ; buildings or vessels not damaged.....	44	34	38	35	39	53	75	48	32	33	32	57	520
Number of fires resulting in nominal damages (less than \$10 dollars) to either structures or contents.....	124	87	106	95	85	105	117	96	62	61	77	101	1,116

Number of Fires occurring each Day of the Week, and During the Different Hours and Periods of the Day, by Months.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Monday	74	40	36	41	39	40	60	25	27	31	27	60	501
Tuesday.....	56	50	31	48	41	47	51	35	20	27	37	41	484
Wednesday.....	47	53	32	40	41	46	60	30	27	28	40	37	481
Thursday.....	44	41	42	42	36	33	25	43	27	33	44	32	443
Friday.....	56	38	49	39	25	29	33	32	37	25	31	43	438
Saturday.....	49	28	59	29	19	44	23	37	21	28	29	45	413
Sunday.....	53	40	36	44	25	33	70	29	32	18	25	51	457
Between the hours of—													
12 midnight and 1 a. m.....	9	10	10	11	7	7	19	7	6	8	9	10	113
1 a. m. and 2 a. m.....	7	9	8	11	11	9	8	7	6	8	7	2	93
2 a. m. and 3 a. m.....	6	7	9	6	7	7	11	11	3	2	5	8	82
3 a. m. and 4 a. m.....	4	5	5	5	4	9	10	6	4	4	3	7	66
4 a. m. and 5 a. m.....	7	10	2	8	1	3	13	8	5	4	1	5	67
5 a. m. and 6 a. m.....	11	5	8	8	4	5	5	2	5	2	7	5	67
6 a. m. and 7 a. m.....	11	5	5	9	5	3	7	1	3	3	5	5	62
7 a. m. and 8 a. m.....	12	8	4	3	8	8	9	8	3	3	6	8	80
8 a. m. and 9 a. m.....	20	4	10	10	4	9	7	11	3	2	3	7	90
9 a. m. and 10 a. m.....	19	15	18	11	8	11	7	4	9	4	7	9	122
10 a. m. and 11 a. m.....	10	11	11	15	6	11	19	9	11	8	8	12	135
11 a. m. and 12 m.....	9	7	13	10	14	12	19	11	9	6	6	13	129
12 m. and 1 p. m.....	13	9	13	7	8	14	8	9	3	8	10	10	112
1 p. m. and 2 p. m.....	17	13	7	13	8	10	14	5	12	7	13	20	139
2 p. m. and 3 p. m.....	16	12	12	12	12	19	23	9	8	8	10	14	155
3 p. m. and 4 p. m.....	13	10	13	12	13	10	22	11	12	5	4	9	139
4 p. m. and 5 p. m.....	24	14	14	16	11	11	7	7	6	12	21	15	163
5 p. m. and 6 p. m.....	32	15	12	20	18	8	14	11	6	21	17	39	213
6 p. m. and 7 p. m.....	31	17	29	16	13	14	15	14	14	18	23	29	233
7 p. m. and 8 p. m.....	19	28	24	19	11	18	16	17	18	14	17	15	216
8 p. m. and 9 p. m.....	25	22	20	21	23	18	21	21	11	11	15	29	234
9 p. m. and 10 p. m.....	26	23	15	19	13	22	17	16	13	12	20	12	208
10 p. m. and 11 p. m.....	16	16	15	7	7	16	22	17	12	12	7	9	156
11 p. m. and 12 midnight.....	17	11	8	14	9	18	12	10	9	8	10	17	143
Between 6 a. m. and 6 p. m.....	201	123	132	138	120	126	156	95	83	87	110	161	1,539
" 6 p. m. and 6 a. m.....	178	167	153	145	107	146	169	136	106	103	124	148	1,678
Total each month	379	290	285	283	227	272	325	232	151	190	234	309	3,217

Notable Fires and Extraordinary Services.

January 2.—No. 81 White street, a five-story brick building, 25 by 100 feet, occupied by dealers in cloth. The fire originated in the cellar, and extended through the recesses in the walls, to all the floors and to the roof, considerably damaging the building ; it also extended to No. 79 White street, a five-story brick, marble front building, 25 by 80 feet, occupied by cloak manufacturers, slightly damaging it ; also to Nos. 83 and 85 White street, a five-story brick, free-stone front building, 50 by 80 feet, occupied as a suspender manufactory, slightly damaging it ; also to Nos. 84 and 86 White street a six-story brick, iron front building, 50 by 100 feet, occupied as a carpet storage warehouse, slightly damaging it. The first alarm was received at 7.46 p. m., and at 8.05 and 8.23 p. m. respectively second and third alarms were sent out, followed by special calls for four companies. Thirteen engine and five hook and ladder companies and a water tower were required to extinguish the fire, which was under control in one hour and ten minutes. The cause was not ascertained, and the loss was \$72,200.

January 15.—Nos. 54, 56 and 58 Warren street, a five-story brick building, 75 by 80 feet, occupied as a patent medicine manufactory, etc. The fire originated on the second floor and extended to the third, fourth and fifth floors and to the roof by stairway and elevator shaft, and considerably damaged the building. The first alarm was received at 4.36 a. m., and on the arrival of the Department, fire was found throughout the building from the second to the fifth floors, and at 4.41 a. m. a third alarm was sent out, followed by special calls for three companies. The services of fourteen engine and four hook and ladder companies and a water tower, were required to extinguish the fire, which was under control in one hour. The cause of the fire was spontaneous combustion of canvas covers, and the estimated loss was \$81,725.

January 25.—Nos. 93 and 95 William street, a five-story brick building, 50 by 60 feet, occupied as fire-proof paint manufactory. The fire originated on the third floor, and extended by stairway and hatchway to the first, second, fourth and fifth floors and to the roof, considerably damaging the building. The first alarm was received verbally at the quarters of Engine Co. No. 4 from a police officer, and on the arrival of that company the fire had such headway that the commanding officer

immediately sent out a second alarm at 11.15 P. M., which was followed at 11.23 P. M. by a third alarm. The fire required the services of eleven engines and four hook and ladder companies and a water tower, and was under control in forty minutes. The cause was not ascertained, and the loss is estimated at \$57,875.

January 30.—Nos. 549 and 551 Broadway, a six-story brick building, 50 by 200 feet, occupied by importers of fancy goods, etc., from which the fire extended southward to Nos. 547 and 545 Broadway, five and six stories in height, 25 by 100 feet each, and occupied by dealers in artificial flowers and tailors' trimmings, respectively, and northward to No. 553 Broadway, a five-story brick building, 25 by 100 feet, occupied by dealers in artificial flowers, millinery, cloths, etc. All of these buildings extended through to Mercer street, and all were destroyed except No. 545, which was slightly damaged. Special report of this fire was made to the Mayor on February 6, as follows:

"The fire on the 30th ult., on Broadway, between Spring and Prince streets, was the most destructive since the Fourth Avenue Railroad Stable fire in 1881, which resulted in the loss of \$2,392,601.

"The preliminary estimate of the loss at the recent fire is \$1,500,000.

"The Chief of Department has, as is customary in the case of extraordinary occurrences of this nature, made a special report on the operation at the Broadway fire to the following effect: The first alarm was sounded at 6.33 A. M. on the 30th ultimo, and the fire which is supposed to have originated in the cellar of the six-story building, Nos. 549 and 551 Broadway (extending through to Mercer street), was, on the arrival of the force, found to have already spread throughout the building; its very rapid progress being facilitated by an unusually large open light-shaft in the centre of the structure. The companies summoned by the first alarm arrived at the fire within two minutes after said alarm had been received. No time was lost in sending for the needed re-enforcements, the record showing that the third alarm was sounded at 6.36 A. M., three minutes after the first. At 7.13 A. M. the upper portion of the bearing walls of Nos. 549 and 551 Broadway were forced outward and falling upon the adjoining buildings, which they overtopped on each side, carried the fire into them. At this juncture the Chief of Department sent out a simultaneous call for the companies due on third alarm at station 379 (Broadway, near Twenty-fifth street). These re-enforcements were needed to prevent the further extension of the fire which was then raging with great fury, and after a long and hard battle they successfully accomplished the result. During the progress of the fire one of the officers of the force, Assistant Foreman Michael F. Reilly, of Hook and Ladder Company No. 8, then commanding his company, while engaged in opening an iron shutter in the building, No. 547 Broadway, was struck by a portion of the falling front, and, on being extricated from the ruins, was found to have sustained very severe injuries, viz.: a fracture of the left thigh and of a rib, a compound fracture of the left leg, and several contusions on the head and body. His condition is now reported to be favorable to recovery. Several other members of the force received slight injuries, but were soon able to return to duty. The services of twenty-four engine and eight hook and ladder companies and one water tower were required to extinguish the fire."

The cause of the fire was not ascertained, and the loss is estimated at \$1,326,400.

February 20.—Nos. 548 and 550 West Twenty-third street, a six-story brick building, 50 by 100 feet, occupied as a spring mattress manufactory on the first floor, on which the fire originated and extended thence by stairway and elevator to all other parts of the building, which was occupied as a silk manufactory. The building was considerably damaged. It also extended to Nos. 540 to 546 West Twenty-third street, a four-story brick building, 100 by 100 feet, occupied as a silk manufactory, slightly damaging it; also to the lumber yard in the rear of these buildings. The first alarm was received at 8.30 1/2 P. M., and at 8.47 P. M. a third alarm was sent out, followed by special calls for three companies. On the arrival of the Department, the entire building (Nos. 548 and 550) was found to be on fire throughout. It required the services of thirteen engine companies (including the floating Engine No. 51), and four hook and ladder companies to extinguish the fire, and it was under control in one hour and thirty minutes. The cause of the fire could not be ascertained, and the loss was estimated at \$147,000.

February 28.—Nos. 56 and 58 East Fourteenth street, a five-story brick building, 50 by 160 feet, occupied by the Union Square Theatre and the Morton House. The fire originated in the theatre, on the stairway of the gallery, between the first and second floors, and extended throughout the auditorium and lobbies, but was prevented from penetrating behind the proscenium wall. It also extended to the hotel which was slightly damaged. The alarm was communicated to Hook and Ladder Company No. 3 (Thirteenth street, near Fourth avenue) by a citizen, upon which an alarm from box 342 (Fourth avenue and Thirteenth street) was immediately sent out by the Chief of the Sixth Battalion, at 1.08 P. M., followed at 1.09 P. M. by the third alarm from box 341 (Broadway and Fourteenth street). Special calls for three engine and four hook and ladder companies were afterward sent out, and it required the services of fourteen engines and five hook and ladder companies to extinguish the fire, which was under control in one hour and forty minutes. While Engine Companies Nos. 13 and 14 were working with their lines on the stairway leading to the balcony of the theatre, the supports of the stairway and roof burned away and the debris fell upon the firemen, injuring four members of Engine Company No. 14, and two of Engine Company No. 13, one of whom had a leg broken, and all were severely burned and bruised. The cause of the fire was defective construction (ignition of floor-beams which had been built into a large flue), and the loss was estimated at \$32,920. The water supply was inadequate.

February 28.—Nos. 54 and 56 Park street, a five-story brick building, 50 by 125 feet, occupied as a lithographic printing establishment. The fire originated on the fourth floor, and extended by stairway and hatchway to the roof, considerably damaging the building. The first alarm was received at 9.50 1/2 P. M. from the automatic instrument on the premises; and first, second and third alarms were sent out at 9.54, 9.54 1/2 and 10.03 P. M. respectively, followed by special calls for three engine companies. It required the services of thirteen engine and four hook and ladder companies to extinguish the fire, and it was under control in two hours. The cause was woodwork in drying-room igniting from steam-pipes, and the loss was estimated at \$94,200.

February 29.—Nos. 16 and 18 Dutch (corner Fulton) street, a five-story brick building, 100 by 25 feet, occupied as a manufactory of printers' supplies. The fire originated on the first floor under the stairway and extended up the stairway to all the floors and the roof, considerably damaging the building. The first alarm was received at 12.20 A. M., from box 46 (Fulton and William streets), and the companies due at that station being still in service at the fire at Nos. 54 and 56 Park street, special calls for the companies in quarters nearest to the location were sent, and on their arrival, at 12.27 A. M., finding that re-enforcements were needed, a third alarm was sent, which was followed at 12.37 A. M. by the simultaneous call 6-6-6-10-341=46, because of the headway the fire had obtained, and of the combustible nature of the contents of the adjoining premises, a large building filled with paints, oils, varnishes, etc. The services of nine engines and five hook and ladder companies were required to extinguish the fire, and it was under control in one hour. The fire was caused by carelessness of occupant with a match or a cigar igniting waste paper, and the estimated loss amounted to \$26,650.

Within the thirty-three hours intervening between 1.50 A. M., on the 28th, and 9.49 A. M., on 29th of February, during which the three fires last described took place, nineteen other fires occurred in various sections of the city, fourteen of them south of Fourteenth street, and two of the fourteen were of such magnitude as to require the services of a greater number of companies than the first alarm contingent, and were in the immediate vicinity of the Park street and Dutch street fires.

March 1.—Nos. 375 to 393 Lexington avenue, a six-story brick building, 200 by 195 feet, occupied as a furniture manufactory, and for other manufacturing purposes, extending from Forty-first to Forty-second street. The fire originated on the first floor and extended to all parts of the building, entirely destroying it; and also to the buildings Nos. 148, 150 and 152 East Forty-second street, each four-story brick, 25 by 50 feet, occupied as dwellings, which were all destroyed by falling walls. It also extended to the buildings Nos. 154, 156 and 158 East Forty-second street, each four-story brick, 25 by 50 feet, occupied as dwellings, slightly damaging them; also to Nos. 395 and 397 Lexington avenue (northeast corner of Forty-second street), a five-story brick, brown-stone front, building, 40 by 75 feet, occupied as a hotel, which was slightly damaged; also to the window-frames and cornices of Nos. 139, 141 and 143 East Forty-second street (north side), each five-story brick, brown-stone front buildings, 25 by 70 feet, occupied as dwellings, slightly damaging them; also to the window-frames and cornices of Nos. 128, 130 and 132 East Forty-first street (south side), each four-story brick buildings, 18 by 50 feet, occupied as dwellings, slightly damaging them. Large cinders from the fire fell on the roof of St. Agnes Roman Catholic Church, a two-story brick structure, 50 by 100 feet, situated on the north side of Forty-third street, near Lexington avenue, and were extinguished by a detail of firemen, with slight damage. The intense heat also set fire to the sleepers and ties of that portion of the structure of the Elevated Railroad running on the south side of Forty-second street, from Third avenue to the Grand Central Depot, and a section about 100 feet in length of the structure was destroyed by the falling walls. The first alarm was received at 12.26 1/4 P. M., from the special building signal box located in the building Nos. 375 to 393 Lexington avenue, and on the arrival of the first companies the fire was burning so fiercely that at 12.30 P. M. a second alarm was sent out. On the arrival of the first chief officer, at 12.31 1/4 P. M., he immediately ordered a third alarm, and at 12.42 P. M. the simultaneous call 6-6-6-12-341=483, was sent, the exceedingly combustible nature of the contents of the building generating an intense heat and endangering the buildings opposite on both Forty-first and Forty-second streets. The services of twenty-three engine and seven hook and ladder companies were required to extinguish the fire, which was under control in two hours. The water supply was entirely inadequate. The fire was caused by sparks from a locomotive on the elevated railroad, and the estimated loss was \$361,000.

March 12.—Nos. 9 and 11 Lighthouse street, a four-story brick building, 50 by 100 feet, occupied as a paper-box manufactory. The fire originated on the second floor and extended to all parts of the building, which was considerably damaged; it also extended to No. 7 Lighthouse street, a four-story brick building, 25 by 90 feet, occupied as a bookbindery, slightly damaging the building. The first alarm was received at 6.45 P. M., and at 7.07 P. M. a second alarm was sent out, followed by a

special call for an engine company. The services of three engines, with two lines from each, and three hook and ladder companies, were required to extinguish the fire which was under control in three hours. The fire was caused by carelessness in putting hot ashes in a wooden receptacle, and the loss was estimated at \$29,600. The first chief officer reports that on his arrival the fire had obtained great headway because only one engine and one hook and ladder company of the five companies due on first alarm, found it possible to reach the fire in time to be of service, the others being delayed for at least an hour. None of the companies due on the second alarm were able to reach the fire with their apparatus. Their delays were caused by the condition of the streets, resulting from the great fall of snow during the preceding eighteen hours.

March 13.—No. 559 West Forty-second street, a five-story brick building, 25 by 60 feet, occupied by ten families as a dwelling. The fire originated in the cellar, and extended to all parts of the building, destroying it; it also extended to No. 559 West Forty-second street, a five-story brick building, 25 by 60 feet, also occupied by ten families as a dwelling, slightly damaging it. The first alarm was received from a police officer at 2.30 A. M., in the quarters of Engine Company No. 2 (located at No. 530 West Forty-third street), and on the arrival of that company the building was on fire from cellar to roof, and a third alarm was immediately sent out. This was at 2.47 A. M., the depth of the snow and the fierceness of the storm having made it so difficult to travel that the company required seventeen minutes to go a distance of less than one-fifth of a mile, and it was impossible for any other apparatus, except the tender of Engine Company No. 26, to reach the fire. The stream from Engine Company No. 2 and a stream stretched from hydrant by the tender of Engine Company No. 26, with the assistance of members of Hook and Ladder Companies Nos. 2 and 4 (who arrived with tools but without apparatus), was all that could be obtained to extinguish the fire, which, notwithstanding the serious impediments, was under control in about two hours. The fire is supposed to have been of incendiary origin, and the amount of loss is estimated at \$24,250.

During the five days, March 12, 13, 14, 15 and 16, while the streets were in an almost impassable condition in consequence of the great storm of March 12 and 13, there were, including the two fires last described, forty-five fires, being an average of nine per day, one more than the daily average for the year 1887.

The situation during this period was such as to call for extraordinary efforts on the part of the uniformed force. Not only were the streets well nigh impassable for the apparatus, but the storm had also crippled the fire-alarm system and rendered a large number of the alarm-box and other telegraph circuits useless. All possible precautions against the threatening dangers were promptly taken. Leaves of absence were suspended, a large number of extra horses and sleighs of all kinds were obtained, and a special corps of telegraph linemen was put at work restoring the lines.

In recognition of the faithful and valuable services of their subordinates, so willingly rendered during this trying emergency, and the skill and good judgment displayed by the prominent officers, the Commissioners adopted the following resolution at a meeting held on the 10th day of March:

Resolved, That the Fire Commissioners desire to place upon record their admiration of the excellent conduct of their subordinates in all branches of the Department during the past trying winter months, and to commend particularly the fidelity, courage and resolute devotion to duty of the Chief of Department and all his subordinates in the uniformed force, as well as the skill and coolness displayed by the officers and employees of the Fire Alarm Telegraph, and the excellent management of the Captain in charge of the Repair Shops and of the Captain in charge of the Hospital Stables, more especially during the crisis of last week. The Fire Commissioners are very proud of the fact that at the height of the late storm and for some time thereafter, when the streets of the city were choked up with snow, the firemen rose to the extraordinary demands of the occasion, as was shown by the fact that two dangerous third-alarm fires were successfully checked. There is now to be added the record of a gallant effort to save human life at a fire occurring at No. 1141 Madison avenue, early this morning, resulting in serious injuries to a brave and meritorious officer, Lieutenant William Quirk, of Engine Company No. 22. The Fire Commissioners also desire to express their thanks to the many public spirited citizens who rendered assistance in various ways during the late emergency.

The following testimonial was subsequently received from the New York Board of Fire Underwriters:

NEW YORK, April 2, 1888.

To the Board of Commissioners, Fire Department of New York City:

The dangerous situation of this city as regards fire during and immediately following the great storm of the 12th of March last, known as the "blizzard," was made the subject of comment at a meeting of the New York Board of Fire Underwriters on the 21st ultimo, and the undersigned were appointed to prepare and convey to the Board of Fire Commissioners and to the uniformed force of the Fire Department the appreciation of the underwriters of the heroic efforts of the firemen and the good results of their labors during the period of peril to the city. And also to gratefully acknowledge the energy displayed by the telegraph corps connected with the Department in so successfully coping with almost insurmountable difficulties and promptly restoring the service to its usual efficacy.

HENRY H. HALL, President, }
G. T. PATTERSON, Jr., }
JAMES A. SILVEY, } Committee.
A. M. KIRBY, }
H. E. BOWERS, }
SAMUEL TOWNSEND, }

The extra expenditure incurred during this period amounted in all to about \$6,217.16, and would have been much larger but for the generous public spirit of many citizens who gratuitously placed horses, sleighs, harness, etc., at the disposal of the Department, accompanied in many cases by offers of additional assistance.

The Department has already acknowledged its indebtedness by letter to the following-named for assistance thus rendered:

The New York Board of Fire Underwriters.	Benjamin Reynolds.
The Broadway and other railways.	George V. Hecker & Co.
The Marvin Safe Company.	Dry Dock, East Broadway and Battery Railway Company.
The Herring Safe Company.	John Murphy.
Mr. Thomas E. Crimmins.	John D. Perry.
Mr. Richard Webber.	John Ryan.
William H. Eckert, General Manager Metropolitan Telephone and Telegraph Company.	S. M. Sisson.
Bayley & Co.	Tallen & Stadfeld.
J. W. Smith.	The Harlem Railroad Company.
A. E. Merrill.	Charles A. Benedict.
The Adams Express Company.	G. D. Kuper & Bro.
William A. Taylor & Co.	J. K. Reid.
Michael Ginna.	E. A. Harriott.
Park & Tilford.	Edward Hous.
Shultz, Southwick & Co.	Spencer Wood.
H. J. Allen & Co.	Garner & Co.
Phelps, Dodge & Co.	Charles Israel.
Metropolitan Van Co.	Smith & Sills.
The Yuengling Brewing Co.	J. Mitnacht.
Third Avenue Railroad Co.	Acker, Merrill & Condit.
John F. Behlmer.	J. M. Geary.
Brother Leontine, Catholic Protectory.	Frederick J. Seelig.
C. & A. B. Krahmer.	Patrick Brady.
Frank Bean.	The Great Atlantic and Pacific Tea Co.
John B. Hasslacher, Supt. George Ehret Brewing Co.	F. M. Schaeffer Brewing Co.
R. Hoe & Co.	National Ice Co.
Thomas Duell.	Henry Minching.
	W. L. Chester.
	Mr. Myer.
	Charles Ryder.

March 19.—No. 38 East Eighty-fifth street (southeast corner of Madison avenue), a five-story brick building, 25 by 75 feet, built for occupancy by four families, one on each of the stories above the first floor, the latter designed for use as a store, which, together with the fourth floor, was at the time vacant. The fire originated on the third story, and extended up into the fourth and fifth stories and through the roof, considerably damaging the building. The alarm was communicated to Engine Company No. 22, verbally, at 6.53 A. M.; the first (telegraphic) alarm was received at 6.56 A. M., and a third alarm was sent at 6.59 A. M. At the time of the arrival of Engine Company No. 22, thick smoke was pouring in volumes from the third floor, and four of the occupants, Mrs. and Miss Westlake and her brothers Frederick and Isaac C. Westlake, were hanging from the windows of that floor. Foreman Donohue (at the time commanding the battalion) immediately ordered the company to stretch a line of hose up the stairway, and the scaling ladders to be used.

For particulars of the rescue by Assistant Foreman Quirk at this fire, see "meritorious services" in a subsequent part of this report.

The fire required the services of ten engine and three hook and ladder companies to extinguish it, and was under control in fifty minutes. The cause could not be ascertained and the amount of loss sustained was \$18,600. The water supply was found insufficient.

In addition to the notices of inadequacy of the water supply above noted, the same was also found deficient at the following fires:

January 30—1.07 P. M., No. 16 Pell street.
February 16—1.08 P. M., Nos. 16-24 Nassau street.
March 16—8.28 A. M., No. 125 Bowery.

April 25.—Nos. 524 to 532 West Thirteenth street, a five-story brick building, 125 by 50 feet, occupied by the Delamater Iron Works as a pattern shop. The fire originated on the third floor and extended to all floors, considerably damaging the building. The first alarm was received at 9.19 P. M., and at 9.26 and 9.37 P. M., respectively, second and third alarms were sent out. The fire obtained considerable headway, because the water was shut off at the time from the mains in the vicinity. The services of eleven engines, four hook and ladder companies and of both floating engines were required, and the fire was under control in one hour and forty minutes. The fire was caused by friction of machinery, and the loss amounted, as estimated, to \$130,000.

April 26.—No. 47 Walker street, a five-story brick (iron front) building, 40 by 90 feet, occupied by manufacturers of cloak trimmings, etc. The fire originated on the third floor and extended by stairway and elevator shaft to the fourth and fifth floors, slightly damaging the building. The first alarm was received at 7.13 P. M., and at 7.18 and 7.23 P. M., respectively, second and third alarms were sent out. The fire required the services of ten engine and four hook and ladder companies, and was under control in one hour. The cause of the fire was not ascertained, and the loss was estimated at \$91,500.

June 6.—Nos. 139 to 147 East Fourteenth street, a three-story brick building, 116 by 122 feet, height 112 feet, occupied partly as a theatre and partly for meetings, balls, etc., known as Tammany Hall. The fire originated on the stage of the theatre, and burned away the truss and floor-beams supporting the third or main hall floor, causing the centre portion of it to fall, and thus allowing the fire to pass upward and into the third story. From the high roof the ceiling of the main hall on the third story was suspended, forming a space between the roof and ceiling about thirty feet high in the centre and extending over the entire building. This space was heavily charged with heat and smoke and proved a great hindrance to the work of extinguishing the fire until the force succeeded in opening the roof. The theatre part of the building was considerably damaged and the rest of the building slightly. The first alarm was received at 6.26½ A. M., and at 6.29½ A. M. a third alarm was sent out, and also special calls for five engine companies. The fire required the services of fourteen engine and four hook and ladder companies, and was under control in one hour and fifteen minutes. The cause of the fire was not ascertained, and the estimated loss amounted to \$50,500.

June 25.—Nos. 671 to 675 First avenue (southwest corner of Thirty-ninth street), a six-story brick building, 100 by 75 feet, occupied as a cigar manufactory. The fire originated on the fifth floor, and extended throughout the building (through the elevator shaft), completely destroying it. It also extended to the building Nos. 663 to 669 First avenue, a six-story brick building, 100 by 75 feet, also occupied as a cigar manufactory, slightly damaging it. The following buildings were slightly damaged by radiation of heat from fire in the main building: No. 672 First avenue, a five-story brick building, 25 by 65 feet, occupied as a tenement; No. 676 First avenue, a two-story frame building, 20 by 40 feet, occupied as an office; No. 678 First avenue, a two-story brick building, 25 by 50 feet, occupied as a packing-box manufactory, and to Nos. 344 and 346 East Thirty-ninth street, each five-story brick buildings, 25 by 70 feet, occupied as tenements. The first alarm was received at 9.24 A. M., and at 9.26½ A. M. a third alarm was sent out. The fire required the services of eleven engine and four hook and ladder companies, the floating engines, No. 43 and 51, and a water tower, and was under control in two hours. The fire is believed to have been caused by workmen smoking, and the loss is estimated at \$178,940.

July 7.—Nos. 33 to 37 East Seventeenth street, a seven-story brick building, 75 by 200 feet, extending through to Eighteenth street, upon which it has a front of 125 feet. The building is used for various mercantile purposes on the lower floors and for a bookbindery on the upper floors. The fire originated on the sixth floor, in the bookbindery, and burned downward to the fifth floor, slightly damaging the building. The first alarm was received from the automatic instrument in the building at 12.26 A. M., bringing a Chief of Battalion and two companies. At 12.31 A. M. and 12.38 A. M., respectively, the nearest street alarm signal and a third alarm were sent out, followed by special calls for three engine and two hook and ladder companies. The fire required the services of thirteen engine and six hook and ladder companies and one water tower, and was under control in one hour and fifteen minutes. The cause of the fire could not be ascertained, and the loss amounted to \$114,000.

July 20.—No. 156 West Twenty-seventh street, a six-story brick building, 25 by 100 feet, occupied as a furniture manufactory. The fire originated on the first floor and extended (by elevator and stairways) to all the floors and the roof, considerably damaging the building. The first alarm was received at 12.32 A. M., and at 12.43 and 12.52 A. M., respectively, second and third alarms were sent out. The fire required the services of eleven engine and four hook and ladder companies, and was under control in one hour and twenty minutes. It was caused by the ignition of rubbish with a lighted cigar, through carelessness, and the loss was estimated at \$15,225.

August 3.—No. 107 Bowery (rear), a six-story brick building, 25 by 40 feet, occupied by various firms for the manufacture of clothing, etc. The fire originated on the first floor and extended with great rapidity up the stairway and hatchway. The first alarm was sent out from the special building signal box located in the theatre adjoining, at 4.22 P. M. The firemen responded promptly, but upon their arrival the entire building was on fire, the flames pouring out of every window in the front of the structure. At 4.27 P. M. a third alarm was sent out. The fire extended throughout the entire building, which was considerably damaged. About one hundred persons (male and female) were employed in the building, of which number nineteen are known to have perished in the flames or in their efforts to escape, before the arrival of the Department. The building was provided with a good fire-escape, connecting two windows on each floor of the front, and with an iron stairway from the third floor in rear. Eleven engine and four hook and ladder companies were at work during the fire, the duration of which was four hours and forty minutes. The cause of the fire was the explosion of a kerosene oil stove, and the loss amounted to \$29,160.

August 13.—Convent of the Sacred Heart (between Tenth and St. Nicholas avenues, on the line of One Hundred and Thirty-second street). The main building was 200 by 300 feet and 50 by 175 feet, five stories high, with various wings, all built of brick and brown stone. The fire originated in the cupola of the main building, and at 8.04 P. M. the special building signal, which connects the institution with the Department telegraph, was received and responded to by the three nearest engine companies. At 8.16½ P. M. an alarm was received from a street box, and at 8.18 and 8.39 P. M., respectively, second and third alarms were sent. Subsequently special calls were sent for six engine and three hook and ladder companies, making the aggregate number twenty-one, of which sixteen were engine and five hook and ladder companies. The last six engine companies were called because additional hose was needed, only one of the engines being used. The Convent is located on very high ground, about 125 feet above the level of St. Nicholas avenue, and the approach therefrom for vehicles is by a very steep roadway. The building was without interior dividing walls, and the only water supply within the grounds was a small reservoir containing about 95,000 gallons of water. These circumstances, as a matter of course, tended very materially to make the work of the force very arduous. Fourteen thousand and six hundred feet of hose were used, and eleven engine and five hook and ladder companies were in service during the fire, which was under control in about eight hours. The fire was caused by hot coals falling from roofers' furnace and igniting woodwork, and the estimated loss is \$275,000.

September 22.—Nos. 403 to 407 East Fifty-fourth street, a five-story brick building, occupied as a brewery, ice-house, cooper shop, etc. The fire originated on the fourth floor, near the cooper shop and malt-room, and extended (by stairway and elevator) to the fifth floor and roof, considerably damaging the building. The first alarm was received at 6.35 P. M., and on the arrival of the first officer the fire had extended over the entire fourth and fifth floors, going through the roof and also dropping down the elevator shaft to the cellar. At this time the employees were attempting to extinguish the fire with a line of small hose, and although a fire-alarm box key was located in the building, no attempt had been made to use it, a citizen key-holder, who discovered the fire from the outside, having sent out the alarm. The officer, immediately upon his arrival (at 6.39 P. M.), sent out a third alarm, which was followed shortly after by special calls for two engines, a fire-boat and a water tower. The fire required the services of thirteen engines and four hook and ladder companies and one water tower, and was under control in one hour and fifty minutes. The cause of the fire could not be ascertained, and the loss was estimated at \$45,000.

November 10.—Nos. 1 to 6 Mission place, a five-story brick building, 40 by 100 feet, occupied as a manufactory of paper bags and also as a printing establishment. The fire originated in the cellar, and extended by stairs and hatchway to all the floors, considerably damaging the building. It also extended to Nos. 146 and 148 Worth street, a five-story brick, iron-front building, 50 by 85 feet, occupied as a printing establishment, slightly damaging it. The first alarm was received at 7.18 A. M., and at 7.21 A. M. a third alarm was sent out. The services of eleven engines and four hook and ladder companies were required, and the fire was under control in two hours and thirty minutes. The fire extended so rapidly at the start that six employees on the second floor were cut off from escape, and were slightly injured by being compelled to jump from windows to the street before the arrival of the Department. The cause of the fire was a lighted cigar falling through hole in vault lights and igniting paper stock in the basement, and the loss amounted to \$83,850.

November 17.—No. 512 Broadway, extended through to Crosby street, a six-story brick building 30 by 200, and 50 feet front on Crosby street, occupied as a clothing manufactory. The fire originated on the fifth floor, and extended to the fourth and sixth floors by stairway, slightly damaging the building. The first alarm was received at 8.14 P. M., and at 8.21 and 8.52 P. M., respectively, second and third alarms were sent out. The services of five engine and four hook and ladder companies were required, and the fire was under control in forty-five minutes. The cause of the fire was escaped gas igniting, and the loss is estimated at \$108,150.

December 7.—Harlem river, at dock located between Willis and Brook avenues, the steamboat "Maryland," 300 feet long and 60 feet in width, used by the New Haven Railroad Company for the transportation of cars, with two sleeping and two ordinary passenger cars on board at the time the fire occurred, which were filled with passengers, who saved their lives with considerable difficulty. The fire is supposed to have originated in the galley, spreading thence rapidly to all parts

of the boat, and considerably damaging it and the cars upon it. It also extended to the dock and to a tug-boat belonging to the railroad company, slightly damaging both.

The first alarm was received at 11.19 P. M., and at 11.35 P. M. a second alarm was sent out. Special calls were also sent out for four engine companies and also for the boat "John Fuller," performing service as Engine No. 43 while the "Havemeyer" is undergoing repairs. Special calls were also sent out for the Police boat "Patrol" and the Charities and Correction steamboat "Thomas Brennan," both of which boats are provided with fire pumps and designated by special call signals, but neither responded. The Department worked at a great disadvantage because the surroundings of the fire were such as to make it nearly impossible for the land companies to reach it. The nearest hydrant that could be used by a land engine was about seven hundred and fifty feet distant and the way to it was obstructed by railroad cars, under which the lines of hose were stretched, there being no passage way between them. Some of the companies were compelled to stretch as much as fifteen hundred feet of hose to reach the fire.

The pressing need of another and more powerful fire-boat was again demonstrated at this fire, and it is a matter for congratulation that the oft-repeated demands of the Department for the necessary appropriation to enable the building of an improved boat have at last resulted in success, though the amount allowed is considerably less than was considered necessary upon a close estimate.

The services of five engine, three hook and ladder companies and one floating engine were required, and the fire was under control in one hour and twenty minutes. The cause of the fire was live coals falling from range and igniting woodwork of the boat, and the loss is estimated at \$113,100.

Water Consumption.

As nearly as can be estimated 35,466,500 gallons of water were used by the land engines of the Department in extinguishing fires, including the quantity taken from the rivers; and in addition thereto an estimated quantity of 1,722,750 gallons of river water was used by the two floating engines, making an aggregate of 37,199,250 gallons.

Meritorious Services.

The following rescues at fires and elsewhere, involving personal risk, were reported and recorded on the Roll of Merit for the year:

Foreman Peter H. Short, commanding Hook and Ladder Co. No. 1, and Firemen 1st grade Godfrey King, and Joseph P. Johnson, both of the same company, on January 23, at 9.44 P. M., at the fire which occurred in the four-story building, No. 305 Pearl street, rescued Foreman John H. White, commanding Engine Company No. 12, who, while working upon the roof of the burning building with Foreman Short was, by the falling-in of the roof, precipitated to the fourth floor where the fire was then fiercely burning, being protected while in this perilous position by a part of the fallen roof under him and by streams of water from two of the engines at work at the fire. Foreman Short, having fortunately escaped the same fate by getting on top of the eight-inch wall of the building, at once directed a rope to be thrown to him from the roof of the building No. 303 Pearl street, adjoining the burning building, which was about ten feet below his position, and held this rope while Firemen King and Johnson climbed up it, hand over hand, to the top of the wall to his assistance. Foreman Short then leaned over the wall and directed the rope to Foreman White, who tied it around his body and was then raised by Foreman Short and Firemen King and Johnson to the top of the wall, and thence lowered to the roof of the adjoining building. The rescue was timely, for Foreman White's scalp, face and hands were seriously burned, and he was, when rescued, for some time in a helpless condition. The heroic conduct of Foreman Short was especially commended by his immediate superior for again risking his life immediately upon his own escape from a dreadful death, by remaining upon a thin, crumbling wall above the fire, unsupported on either side, and by his prompt and decisive action, while in this dangerous position, inspiring others to assist him in the rescue of his brother officer. The President of the Department, upon reference of this report to him, returned it with the following endorsement: "Respectfully returned with the information that Foreman Short's name has appeared on the Roll of Merit three times heretofore, and with the recommendation that it be recorded on the Roll of Merit again."

Fireman John J. Price, of Engine Company No. 23, on January 27, at 3.35 P. M., at the fire which occurred in the five-story building No. 477 West Fifty-seventh street, at the northeast corner of Tenth avenue, rescued Mrs. Sarah Keator (aged 45), under the following circumstances: When the firemen arrived Mrs. Keator was standing on the sill of the fifth floor window and calling for help. Fireman Price ran up the stairs of the adjoining building and being prevented from descending thence to the fifth floor by the intense heat and dense smoke, he obtained a piece of rope and leaning over the cornice (which projected about three feet), he lowered the rope and directed the imperilled woman to fasten it around her body. When this had been done, Fireman Price, with the assistance of Christian Weiss, (19 years old), hoisted Mrs. Keator to the roof from whence she was taken to the street. All other means of escape being cut off at the time, there is no doubt that Fireman Price's pluck and good judgment saved Mrs. Keator's life, and that he incurred considerable personal risk in making the rescue.

Assistant Foreman William Quirk, of Engine Company No. 22, on March 19, at 6.53 A. M., at the fire which occurred in the five-story building, No. 38 East Eighty-fifth street and Madison avenue, rescued three members of the Westlake family, under the following described circumstances: Assistant Foreman William Quirk (at the time commanding the company) himself took a scaling ladder, with it reached the fourth floor and placed it in a window of the fifth floor. Under his direction the two men (Frederick and Isaac Westlake) descended upon it to the fourth floor. At this time the flames burst out of all the windows of the third floor and prevented further descent by ladder. In the meantime Hook and Ladder Company No. 13 had arrived in response to the telegraphic (box) alarm, and as it was impossible to make use of its extension ladder in time, the life-saving net was resorted to, being held by the few available firemen, aided by a number of citizens. After Miss Westlake, who had been compelled to remain on the fifth floor, and her two brothers on the fourth floor, had, under Assistant Foreman Quirk's direction and instruction, successively jumped and been safely caught in the net, Assistant Foreman Quirk also jumped and, although caught in the net, he unfortunately bounded out of it and falling upon the pavement broke an arm; the others sustained no injuries except those due to shock and slight burns. There can be no doubt that the lives of all would have been lost but for the prompt use of the life-saving net. Mrs. Westlake, the mother of the family, was killed by suffocation at the window of the fifth floor before she could be reached.

The Chief of Department stated in his report that the action of Assistant Foreman Quirk was one of the bravest and most meritorious that had ever been performed by a fireman in the service, and that notwithstanding the caution by Foreman Donohue (who attempted to follow him with a scaling ladder, and had to abandon it), to come down as the flames were coming out of the windows beneath him and that his escape would thus be surely cut off, Quirk resolutely refused to abandon his undertaking to reach the imperilled persons above him.

The Commissioners adopted the following resolution, which explains itself:

"Resolved, That as a slight reward of the heroism displayed by Assistant Foreman William Quirk, of Engine 22, in recently helping to save four lives at the risk of his own, and also as an additional evidence to the uniformed force that signal bravery will not be passed by unrecognized, the Fire Commissioners do hereby, subject to Civil Service examination, promote said William Quirk to the position of Foreman, and direct that upon his recovery from his injuries he be assigned to the command of Engine 49, on Blackwell's Island."

Having subsequently been duly examined and passed, Assistant Foreman Quirk was, in accordance with the resolution, promoted to the grade of Foreman on September 15.

Foreman James Nugent, commanding, Assistant Foreman Patrick Gormley, and Firemen 1st grade Thomas Larkin, Patrick H. Aspell and John J. Grady, all of Hook and Ladder Company No. 7, on April 24, at 10.05 P. M., at the fire in the four-story building, No. 158 East Twenty-eighth street, rescued several people under circumstances described as follows in the official reports:

Upon the arrival of the force summoned by the alarm, the entire second story of the building was ablaze, the flames bursting through the windows both in front and rear and extending up the stairway, thus depriving the occupants of the floors above of all means of escape. Chief of Battalion John S. Fisher, seeing a woman (Mrs. Eliza Cook) at a third-story window, had a ladder raised for her rescue, when Assistant Foreman Gormley and Firemen Larkin and Aspell ran up the ladder to her assistance, but before they reached her she disappeared from the window, and the officer and men followed through dense smoke and intense heat and groping around found her overcome by heat and smoke, but still alive, in the rear part of the room, carried her to the stairway and down to an adjoining house where she subsequently died. Mrs. Cook's husband had, prior to the arrival of the firemen, jumped out of a rear window into the yard, where he was found severely injured. Just as the firemen arrived Catharine Mahoney (a cousin of Mr. and Mrs. Cook) dropped from a third-story front window to a balcony on the second floor, striking the iron railing of the balcony and falling thence into the street, breaking a leg and receiving other injuries. Foreman Nugent seeing another woman (Emily Waters) standing on the sill of a fourth-story window, apparently about to precipitate herself into the street, ran up the ladder, at the same time calling to her to remain where she was and that he would save her, and directed Fireman Grady to bring a scaling ladder, which they hooked into the fourth-story window from the top of the ladder before referred to, then Foreman Nugent climbed up the scaling ladder, followed by Fireman Grady, and assisted the woman down to the street uninjured. In all these cases it is reported that the rescuers were compelled to pass through flame issuing from the windows.

Chief of Battalion John J. Bresnan (Sixth Battalion), Chief of Battalion Joseph F. McGill (Third Battalion), Foreman Daniel Bradley, commanding Hook and Ladder Company No. 9; Assistant Foreman James J. McCartney, of Engine Company No. 33; Fireman 1st grade Edward J. Lacey, of Engine Company No. 5; Fireman 1st grade Peter J. Bonner, of Engine Company No. 33; Fireman 1st grade Robert Wallace, of Engine Company No. 33; Fireman 1st grade Edward F. Hargrove, of Hook and Ladder Company No. 9, on June 13, at 12.38 A. M., at the fire in the four-story building No. 34 Second avenue, rescued nine people.

The building was on fire from cellar to roof up the stairway, and all the rooms were considerably charged with heat and smoke.

Chief of Battalion Bresnan (who had leave of absence at the time) rescued Mamie Miller (age 35 years), found unconscious on the third floor.

Chief of Battalion McGill rescued Bruno Wisniewski (age 9), found unconscious on the third floor.

Foreman Bradley, assisted by members of his company (Hook and Ladder Company No. 9), rescued Christina Wess (age 30), found unconscious on the third floor.

Assistant Foreman McCartney rescued Annie Wisniewski (age 7) and Bertha Wisniewski (age 4), found unconscious on the third floor.

Fireman Lacey, assisted by members of his company (Engine Company No. 5), rescued Charles D. Deyss (age 19), found unconscious and very severely burned on the fourth floor.

Fireman Bonner, assisted by Fireman Wallace, rescued Julia Clement (age 45), who was very severely burned and almost suffocated, and Thomas Clement (age 45), who was slightly burned and almost suffocated, from the fourth floor. Firemen Bonner and Wallace also assisted in the rescue of Mamie Miller, Bruno, Annie and Bertha Wisniewski and Charles D. Deyss, and Fireman Bonner is specially commended in the report for his brave and gallant rescue of Mrs. Julia Clement, heading all the rescuers by ladder and fire-escape to the fourth floor, and making the rescue at great personal risk.

Fireman Hargrove rescued Mary Wisniewski (age 33), found very severely burned and almost suffocated on the third floor, in which he was assisted by members of his company (Hook and Ladder Company No. 9).

Fireman 1st grade Dixon McQueen, of Engine Company No. 51, assisted by Firemen 1st grade William J. Cook and Patrick J. Brennan, on October 27, rescued from drowning a boy named Harman (age 11), at the foot of West Thirteenth street, who had fallen overboard. The rescue involved personal risk on the part of Fireman McQueen.

Life-saving Corps and School of Instruction.

Under instructions from the Board the Chief of Department issued the following:

BUREAU CHIEF OF DEPARTMENT,
NEW YORK, May 5, 1888. }

(General Orders No. 8.)

I.—The following resolutions adopted at a meeting of the Board of Commissioners, held on the 25th ultimo, are hereby promulgated for the information and guidance of the force:

Resolved, That each member of the uniformed force under the age of 40 who has not hitherto become a member of the Life Saving Corps is hereby directed to either report on or before the 5th day of May, 1888, to Assistant Chief Hugh Bonner, at Headquarters, for instruction in the work of said corps, or else to file with the Chief a written statement assigning any good reason on account of which he may apply for exemption from instruction in said work.

Resolved, That not later than May 12 next, on Monday, Tuesday, Wednesday, Thursday and Saturday of each week, the school of instruction shall open and continue its work under such regulations as shall be prescribed by Assistant Chief Bonner; but not less than two of said days shall be devoted exclusively to company drills, and it shall be the duty of the instructor to cause to be kept a brief written record of the efficiency or deficiency of the several companies shown while undergoing such instruction.

Resolved, That Assistant Chief Bonner is hereby authorized, after practically testing the same, to procure a "dummy" for use in drilling with the nets, a parachute, and such other articles as he may consider necessary for the use of the School of Instruction, and notice is hereby given that any person believing that he can suggest improvement in the apparatus, appliances, methods or drill of the Fire Department Life Saving Service, will, on application to the Chief or Assistant Chief, at Headquarters, be gladly afforded an opportunity of practically establishing the merits of his suggestions at the Department Drill Yard.

II.—In accordance with the foregoing resolutions, and with a view to facilitating the movements of companies while in actual service, and to systematize the same, a form of practice to include both branches of the force will be inaugurated, commencing on the 14th instant, and continuing during the months of May, June, September and October, under the supervision of the Assistant Chief of Department, commencing with the companies in numerical order.

The valuable service heretofore rendered by the School of Instruction, where the members of the force have been instructed in the handling and use of the life-saving appliances, implements, etc., has fully demonstrated the necessity for still further extending its usefulness by adding a third class, in the form of practice by companies, with apparatus fully equipped for service.

The practice ground connected with the School of Instruction affords an opportunity to the entire force to obtain a familiarity and knowledge of the recent improvements in apparatus, implements, tools, ladders, and the life-saving appliances, which are continually being added to the equipment of the Department.

Duplicates of every article, implement, etc., at present in use, or that may hereafter be provided for use in extinguishing fires, or for life-saving purposes, will be furnished for practice, and for the equipment of the School of Instruction.

It is, therefore, expected that a complete knowledge and familiarity with the uses and objects of the various implements, apparatus, life-saving appliances, and the improvements in the same (all of which are so essential to the successful operations of the Department) will, with a short period of practice and study, eradicate any defects now existing.

The movements to be selected are entirely practical, and should be familiar to every member of the force, as they are generally put in use by well-regulated companies while in actual service at fires, but in some instances different methods are resorted to, to attain the same ends, and as a rule they result in unnecessary delays, and oftentimes in confusion, which should not exist.

To reduce these defects to a minimum, and to perfect the service, is the object sought to be attained in adopting the following general method of practice for the entire force.

The School of Instruction is located on the fifth floor of the Headquarters Building, and the practice ground attached to the School is located on East Sixty-eighth street, in the rear of the Headquarters Building.

During practice no persons will be admitted on the grounds without first obtaining permission from proper authority.

Companies will take the most convenient route to the ground; the men may use other means of conveyance if it is found not practical for them to ride on the apparatus.

Soiled uniforms, or parts of uniforms, or overalls, may be worn during practice. Absence from the grounds will not be permitted after reporting for practice.

Luncheon may be taken to the grounds. Leaves of absence will not be granted on practice days, until after returning to quarters.

The movements taught in the present course will be hereafter enforced when in actual service, and are subject to such modifications, or amendments, as may be deemed necessary.

Companies will report at practice ground fully equipped for service, with apparatus, at 10 o'clock A. M. when notified, which will be done through Headquarters of Chief of Battalion.

Chiefs of Battalion on receipt of notice will immediately notify the company commander, and also the relief detail, to take their place. If the relief detail is not in his battalion, he will notify the Chief of Battalion under whose command it is.

The double half hitch, rolling and bowline knots, having been found to be the best for Department uses, are adopted as the recognized knots of the Department, and all other methods of fastenings to hose, ladders and implements, are strictly prohibited.

III.—Practice movements for Engine Companies:

1. Stretch line and make the following connections, with line ready for use. 2 and 4 way connections. Tapering hose. Cellar and sub-cellar pipes. Revolving nozzle for cellar and roof service. Connect to pipe ladder by single and double lines.

2. Stretch line by stairway to roof. Back down and out of building.

3. Stretch line by stairway to third floor. Charge line. Move line to fourth, fifth, and sixth floors. Back down and out of building.

4. Hoist line to fourth-story window, with sufficient hose to reach the sixth floor and roof. Make fast and charge line. Back down and out of building.

5. School of Instruction. General instruction in the use of life-saving implements, life nets, guns, missiles, lines, etc.

6. Take line by ladder to the fourth floor. Make line fast to ladder. Charge line, pipeman using the ladder belt. Move line to sixth floor on inside of building. Back down and out of building.

7. Hoist line to roof and make fast. Charge line. Remove bursted length from line, under the cornice. Replace with good length, charge line. Back down.

8. Stretch line to roof by balcony platform, using scaling ladder in making connection to balconies. Connect all balconies with rope ladders. Make fast, and charge line. Back down.

9. Stretch to third balcony by rope ladder, make fast, and charge line. Move line by iron and rope ladders to fourth, fifth and sixth balconies and roof, and charge line. Back down.

10. Connect line to stand pipe by single and double lines for roof service. Hoist hose to roof, and make connection to end of stand pipe. Charge line. Back down.

11. Practice in the handling and use of shut-off, and other nozzles, hydrant connections and suction. Engineers to operate and explain relief-valves, the amount of pressure used on line for ordinary duty, how the valve is cut off from operating, the means of reducing pressure on line without detaching line, the means of keeping engine operating during a temporary scarcity of coal, the object of using large suction, the hydrant nipple, and how and when used.

IV.—Practice movements for Hook and Ladder Companies:

1. Raise extension ladder full length, place it in position ready for service, connecting line to yoke if provided with such pipe, use guy ropes, etc. Lower the extension piece and the ladder to the ground or truck. The use of guy ropes in raising or lowering the ladders is prohibited.

2. Raise 50-foot extension ladder full length, place it in position ready for service. Lower extension piece and ladder to the ground.

3. Raise 45, 35, 30, 25 and 20 foot ladders, and place them in position ready for service.

4. Hoist 50-foot extension ladder to the roof. Lower ladder from roof.

5. Hoist 45-foot ladder to the roof. Lower ladder from roof.

6. Hoist 30-foot ladder to the roof. Lower ladder from roof.

SCHOOL OF INSTRUCTION.

7. Instruction in the use and handling of life-saving implements, life nets, guns, missiles, lines, etc.

8. Building a line of scaling ladders to roof. Lower ladders to ground.

9. Stretch line of three and one-quarter inch hose, connect to four way connection, with pipe, ready for service.

10. General practice with small ladders, pipe ladder, connecting by single and double lines, sub-cellar and cellar pipes, wire cutters, saws, roof lines, revolving nozzles, hose rollers, tapering hose, ram and wall cutters, branch yoke, etc.

V.—The companies at practice will be relieved in the manner hereinafter designated.

Engine Company No. 1, will be relieved by the 2d section of Engine Company No. 26.

" 2, " " 2d " " 26.

" 3, " " 2d " " 18.

" 4, " " 2d " " 12.

" 5, 1st section, will report for practice, 2d section relieve them.

" 6, will be relieved by the 2d section of Engine Company No. 27.

" 7, " " 2d " " 31.

" 8, " " 2d " " 16.

" 9, " " 2d " " 31.

" 10, " " 2d " " 12.

" 11, " " 2d " " 33.

" 12, 1st section will report for practice, 2d section relieve them.

" 13, 1st " " " 2d " " "

" 14, will be relieved by the 2d section of Engine Company No. 5.

" 15, " " 2d " " 33.

" 16, 1st section will report for practice, 2d section relieve them.

" 17, will be relieved by the 2d section of Engine Company No. 33.

" 18, 1st section will report for practice, 2d section relieve them.

" 19, will be relieved by the 2d section of Engine Company No. 18.

" 20, " " 2d " " 13.

" 21, " " 2d " " 16.

" 22, " " 2d " " 16.

" 23, " " 2d " " 26.

" 24, " " 2d " " 13.

" 25, " " 2d " " 33.

" 26, 1st section will report for practice, 2d section relieve them.

" 27, 1st " " " 2d " " "

" 28, will be relieved by the 2d section of Engine Company No. 5.

" 29, " " 2d " " 27.

" 30, " " 2d " " 27.

" 31, 1st section will report for practice, 2d section relieve them.

" 32, will be relieved by the 2d section of Engine Company No. 12.

" 33, 1st section will report for practice, 2d section relieve them.

" 34, will be relieved by the 2d section of Engine Company No. 26.

" 35, " " 2d " " "

" 36, " " 2d " " 26.

" 37, " " 2d " " "

" 38, " " 2d " " "

" 39, will be relieved by the 2d section of Engine Company No. 16.

" 40, " " 2d " " 26.

" 41, " " 2d " " "

" 42, " " 2d " " "

" 43, " " 2d " " "

" 44, will be relieved by the 2d section of Engine Company No. 16.

" 45, " " 2d " " "

" 46, " " 2d " " "

" 47, " " 2d " " "

" 48, " " 2d " " "

" 49, " " 2d " " "

" 50, " " 2d " " "

" 51, " " 2d " " "

" 52, " " 2d " " "

" 53, " " 2d " " "

" 54, will be relieved by the 2d section of Engine Company No. 26.

" 55, " " 2d " " 13.

H. and L. Co. No. 1, will be relieved by the 2d section of Hook and Ladder Company No. 9.

" 2, " " 2d " " 9.

" 3, " " 2d " " 9.

" 4, " " 2d " " 5.

" 5, 1st section will report for practice, 2d section relieve them.

" 6, will be relieved by the 2d section of Hook and Ladder Company No. 9.

" 7, " " 2d " " 9.

" 8, " " 2d " " 5.

" 9, 1st section will report for practice, 2d section relieve them.

" 10, will be relieved by the 2d section of Hook and Ladder Company No. 9.

" 11, " " 2d " " 9.

" 12, " " 2d " " 5.

" 13, " " 2d " " "

" 14, " " 2d " " "

" 15, will be relieved by the 2d section of Hook and Ladder Company No. 5.

" 16, " " 2d " " "

" 17, " " 2d " " "

" 18, will be relieved by the 2d section of Hook and Ladder Company No. 9.

" 19, " " 2d " " "

VI.—Engine Companies Nos. 35, 36, 37, 38, 41, 42, 45, 46, 47, 48, 49, 50, 52 and 53, and Hook and Ladder Companies Nos. 13, 14, 17 and 19 will be provided by Chiefs of Battalion with spare apparatus, to be located in their respective quarters with a detail to perform duty during their absence at practice.

The following is taken from the reports upon the results so far obtained by the drills which were instituted under the foregoing orders, in conformity to the resolutions of the Board quoted therein:

It was found impossible to give more than one day to each company, because of the late commencement of the drills, a thorough explanation of the details of the practice, improvements in implements and tools being found necessary, and this, together with the drill proper, consumed about five hours per day.

The drills began on May 14 and were discontinued on June 19, because of the hot weather.

During that period twenty-nine engine companies (mainly located south of Twenty-fifth street) were drilled as prescribed and instructed in the use of new and improved implements and tools. The drills were resumed on September 12 and continued to the end of October, thirty-four companies participating during that period.

The companies are rated as follows:

First Class—Found proficient and active: Engine Companies Nos. 4, 7, 10, 12, 14, 20, 24, 27, 29, 30, 31, 32, 33, 51 and 55. Hook and Ladder Companies Nos. 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13 and 16.

Second Class—Found deficient: Engine Companies Nos. 1, 5, 6, 8, 11, 13, 15, 16, 17, 19, 22, 23, 26, 34, 35, 36, 37, 38, 39, 44 and 54. Hook and Ladder Companies Nos. 2, 14 and 18.

Third Class—Found very deficient and slow: Engine Companies Nos. 2, 3, 9, 18, 21, 25, 28, 40, 47 and 53. Hook and Ladder Companies Nos. 12 and 15.

As a result of these drills and instructions, though so recently introduced, a marked improvement in the efficiency of the companies has been noticeable at large fires; and among the companies showing such improvement are several rated by the reports in the second and third classes, thus clearly demonstrating the great practical value of the system of instruction.

It is believed that within a reasonable time all of the companies will attain such proficiency as to entitle them to be rated in the first class.

The following recommendations were made:

That all men hereafter assigned to hook and ladder duty be not less than five feet eight and one-half inches in height and one hundred and sixty (160) pounds in weight, as many men were found in hook and ladder companies who were undersized, lacking in reach of arms and deficient in weight.

That Chiefs of Battalion be ordered to attend for instruction when notified on the days of their companies' practice.

That in the year 1889 there be two terms of practice, the first to begin on March 1 and end on June 15, and the second to begin on September 1 and end on November 30.

As directed in the first of the resolutions of the Board, quoted in the preceding order of the Chief of Department, all members of the uniformed force under the age of forty were instructed in the work of the Life-saving Corps, with exception of a small number who were exempted for good reasons, so that practically all under the age specified have now undergone this instruction, and out of the total membership of 1,025, only 346 now remain who have not passed through this course.

Casualties.

The number of human lives lost and persons injured at fires, and in responding to alarms for fires, are reported as follows:

	MEMBERS OF THE DEPARTMENT.	OTHERS.		TOTAL.
		Before Arrival of Department.	After Arrival of Department.	
Killed or fatally injured at fires.....	...	43	3	46
" " responding to alarms.....	...	1	..	1
Injured at fires.....	143	111	2	256
" responding to alarms.....	54	4	..	58
Aggregate.....	197	159	5	361

Rope Fire-escapes in Hotels.

Under the provisions of chapter 720 of the Laws of 1887, the uniformed force inspected all the hotels in the city over two stories high, and the Chief of Department reported the result to the Mayor, as the law requires. 254 hotels were thus inspected, of which number a re-inspection showed that 75 had not complied with the requirements.

Strength of Uniformed Force, Number of Fires, with Losses, Population, Number of Buildings, etc., from 1866 to 1887.

YEAR.	STRENGTH OF UNIFORMED FORCE.		Number of Fires.	Loss by Fire.	Average Loss per Fire.	Population, Census Years.	Number of Inhabitants to each Fire-man.	Number of Inhabitants to each Fire.	Number of Buildings.	Number of Buildings to each Fire.
	No. of Companies.	No. of Officers and Men.								
1866.....	54	*964	796	\$6,428,000 00	\$8,075 38	769,553	798	967	854,000	80
1867.....	54	*919	873	5,711,000 00	6,541 81	...	...	...	...	...
1868.....	52	592	740	4,342,000 00	5,867 57	...	...	...	...	...
1869.....	52	599	850	2,696,393 00	3,172 23	...	...	...	...	...
1870.....	52	596	964	2,120,212 00	2,199 39	942,292	1,581	977	...	...
1871.....	52	596	1,258	2,127,356 00	1,691 06	...	...	...	...	...
1872.....	52	596	1,649	2,891,818 00	1,753 67	...	...	...	...	...

YEAR.	STRENGTH OF UNIFORMED FORCE.		Number of Fires.	Loss by Fire.	Average Loss per Fire.	Population, Census Years.	Number of Inhabitants to each Fire-man.	Number of Inhabitants to each Fire.	Number of Buildings.	Number of Buildings to each Fire.
	No. of Companies.	No. of Officers and Men.								
1873.....	54	651	1,470	\$4,022,640 00	\$2,736 48	...	...	...	...	...
1874.....	64	712	1,355	1,430,306 00	1,055 58	...	...	...	...	...
1875.....	67	748	1,418	2,472,536 00	1,743 67	1,041,286	1,392	734	118,200	59
1876.....	68	747	1,382	3,851,213 00	2,786 70	...	...	...	...	...
1877.....	65	752	1,450	3,210,695 00	2,214 27	...	...	...	...	...
1878.....	65	727	1,654	1,884,505 00	1,139 36	...	...	...	...	...
1879.....	64	729	1,551	5,671,580 00	3,656 72	...	...	...	...	...
1880.....	65	748	1,783	3,183,440 00	1,785 44	1,206,299	1,613	676	...	...
1881.....	66	769	1,785	5,820,259 00	3,260 55	...	...	...	...	...
1882.....	67	826	2,001	4,195,960 00	2,096 43	...	...	...	1102,624	51
1883.....	68	895	2,169	3,512,848 00	1,619 37	...	...	...	1101,735	47
1884.....	70	919	2,405	3,474,547 00	1,444 12	...	...	...	...	...
1885.....	71	927	2,479	3,789,283 00	1,528 55	...	...	...	1104,250	42
1886.....	71	951	2,415	3,340,810 00	1,383 35	...	...	...	...	...
1887.....	74	960	2,929	5,585,425 00	1,917 28	...	...	...	...	...
1888.....	74	1,040	3,217	5,485,922 00	1,705 29	*1,676,140	1,612	521	1112,000	35
Total, 23 years.....	38,594	...	38,594	\$87,248,748 00	\$2,260 68	...	...	...	...	...

* Includes about 400 volunteer firemen.

† Annexation of territory north and east of Harlem river.

‡ Estimate based on census of 1865.

§ Estimate based on report of Superintendent of Buildings, fourth quarter, 1875, and exclusive of sheds, bridges and piers.

|| Exclusive of sheds, bridges and piers.

** As estimated by the publishers of the City Directory.

†† As estimated by the Bureau of Inspection of Buildings.

The greatly disproportionate increase in number of fires to the growth in population, number of buildings, etc., since 1865, when the present system was inaugurated, is shown in the subjoined statement:

	1866.	1888.	PER CENT. INCREASE.
Number of fires.....	796	3,217	316.46
Population.....	796,533	1,676,140	110.43
Ratio of fires to population.....	1 to 967	1 to 521	84.7
Number of buildings.....	64,000	112,000	75
Ratio of fires to buildings.....	1 to 80	1 to 35	128.6
Ratio of firemen to fires.....	1 to 1½	1 to 3½	109.52

The population for 1888 is as estimated by the publishers of the City Directory, and the number of buildings for 1888 is estimated from the records of the Bureau of Inspection of Buildings.

It is a gratifying proof of the greater efficiency of the fire-extinguishing service that the average loss per fire, which was \$8,075.38 in 1866, has been reduced to \$1,705.29 in 1888, a decrease of 790 per cent.

Losses and Insurance.

	JANUARY.	FEBRUARY.	MARCH.	APRIL.	MAY.	JUNE.	JULY.	AUGUST.	SEPTEMBER.	OCTOBER.	NOVEMBER.	DECEMBER.	YEAR.
Estimated loss—													
On buildings and vessels.....	\$405,932 00	\$115,652 00	\$239,787 00	\$99,163 00	\$53,400 00	\$137,470 00	\$64,866 00	\$206,860 00	\$33,260 00	\$27,690 00	\$58,120 00	\$125,430 00	\$1,567,630 00
On contents.....	1,067,366 00	362,773 00	541,512 00	292,323 00	160,681 00	275,460 00	262,807 00	196,105 00	88,607 00	139,646 00	303,545 00	227,467 00	3,918,292 00
Total.....	\$1,473,298 00	\$478,425 00	\$781,299 00	\$391,486 00	\$214,081 00	\$412,930 00	\$327,673 00	\$402,965 00	\$121,867 00	\$167,336 00	\$361,665 00	\$352,897 00	\$5,485,922 00
Estimated insurance—													
On buildings and vessels.....	\$3,800,955 00	\$2,676,170 00	\$2,367,150 00	\$1,699,150 00	\$1,233,100 00	\$1,557,650 00	\$1,970,375 00	\$1,093,700 00	\$1,155,500 00	\$1,176,100 00	\$1,971,966 00	\$2,906,800 00	\$23,613,616 00
On contents.....	3,282,560 00	1,572,030 00	1,739,875 00	1,005,290 00	932,086 00	856,470 00	2,207,025 00	977,832 00	605,935 00	1,128,615 00	1,868,095 00	1,936,700 00	18,112,513 00
Total.....	\$7,083,515 00	\$4,248,200 00	\$4,107,025 00	\$2,704,440 00	\$2,165,186 00	\$2,414,120 00	\$4,177,400 00	\$2,076,532 00	\$1,761,435 00	\$2,304,715 00	\$3,840,061 00	\$4,843,500 00	\$41,726,129 00
Estimated uninsured loss—													
On buildings and vessels.....	\$1,170 00	\$992 00	\$120,622 00	\$600 00	\$195 00	\$3,415 00	\$4,325 00	\$40,030 00	\$800 00	\$2,415 00	\$1,390 00	\$21,270 00	\$197,224 00
On contents.....	13,935 00	6,893 00	30,889 00	20,902 00	16,552 00	42,613 00	22,435 00	17,285 00	5,335 00	9,675 00	6,723 00	32,773 00	226,010 00
Total.....	\$15,105 00	\$7,885 00	\$151,511 00	\$21,502 00	\$16,747 00	\$46,028 00	\$26,760 00	\$57,315 00	\$6,135 00	\$12,090 00	\$8,113 00	\$54,043 00	\$423,234 00
Average loss per fire.....	\$3,887 33	\$1,649 74	\$2,741 40	\$1,383 34	\$943 18	\$1,514 82	\$1,008 22	\$1,736 92	\$638 05	\$880 71	\$1,545 58	\$1,142 05	\$1,705 29

Extent of Loss at Fires.

	JANUARY.	FEB.	MARCH.	APRIL.	MAY.	JUNE.	JULY.	AUGUST.	SEPT.	OCTOBER.	NOV.	DEC.	YEAR.	PERCENTAGE TO WHOLE NUMBER OF FIRES.	LOSS LESS THAN—
Nominal or less than \$10.....	125	87	109	100	87	108	119	99	62	63	82	107	1,148	.35	
Between \$10 and 50.....	94	69	49	62	46	62	94	63	46	40	49	66	740	.23	
" 50 " 100.....	36	19	28	22	16	28	34	14	21	19	15	33	285	.09	\$100 at 2,173 fires.
" 100 " 1,000.....	78	75	61	68	44	53	49	36	42	47	48	71	672	.21	1,000 at 2,845 "
" 1,000 " 5,000.....	31	28	24	21	19	13	20	13	15	14	30	21	249	.07	5,000 at 3,094 "
" 5,000 " 10,000.....	8	4	4	4	12	3	3	2	3	3	6	4	56		10,000 at 3,150 "
" 10,000 " 20,000.....	1	4	1	3	1	..	3	2	1	3	1	2	22		20,000 at 3,172 "
" 20,000 " 30,000.....	1	1	5	1	1	..	..	2	..	..	1	3	15		30,000 at 3,187 "
" 30,000 " 40,000.....	1	1	..	..	1	2	1	..	..	..	1	8			40,000 at 3,195 "
" 40,000 " 50,000.....	..	..	1	..	..	1	..	..	1	..	..	3			50,000 at 3,198 "
" 50,000 " 60,000.....	1	..	..	..	..	1	1	..	..	1	..	4			60,000 at 3,202 "
" 60,000 " 70,000.....	..	..	1	..	..	..	..	..	..	..	..	1			70,000 at 3,203 "
" 70,000 " 80,000.....	1	..	..	..	..	..	..	..	..	..	..	1			80,000 at 3,204 "
" 80,000 " 90,000.....	..	1	..	1	..	..	..	..	..	..	..	2			90,000 at 3,206 "
" 90,000 " 100,000.....	..	..	..	..	..	..	..	..	..	..	..	2			100,000 at 3,208 "
" 100,000 " 125,000.....	..	..	..	..	..	..	1	..	..	..	1	3			125,000 at 3,211 "
" 125,000 " 150,000.....	..	1	..	1	..	..	..	1	..	..	..	2			150,000 at 3,213 "
" 150,000 " 200,000.....	..	..	..	..	..	1	..	..	..	..	..	1			200,000 at 3,214 "
" 200,000 " 250,000.....	..	..	1	..	..	..	..	..	..	..	..	1			250,000 at 3,215 "
" 250,000 " 300,000.....	..	..	..	..	..	..	..	1	..	..	..	1			300,000 at 3,216 "
Over 1,000,000.....	1	..	..	..	..	..	..	..	..	..	..	1			
Total.....	379	290	285	283	227	272	325	232	191	061	234	309	3,217		

Origin and Cause of Fires.

ORIGIN.	CAUSE.							PREMISES WHEREIN FIRE ORIGINATED OCCUPIED AS—													Aggregate Loss to Structures and Contents.		
	Accidental.	Carelessness.	Defective Building and Construction.	Mischievousness.	Maliciousness.	Incendiarism.	Not Ascertained.	Total.	Dwellings.	Mercantile Establishments, and Workshops.	Offices.	Restaurants and Saloons.	Storehouses.	Stables.	Places of Amusement and Recreation.	Religious and Educational Institutions.	Lumber, Coal and Wood Yards.	Piers, Docks, etc.	Vessels.	Miscellaneous.		Total.	
In Heating.																							
Beams built into chimneys and fireplaces .....	..	..	10	..	..	..	..	10	8	1	1	..	..	..	..	..	..	..	..	..	10	\$35,060
Chimneys, fireplaces, flues, grates, etc. ....	..	..	71	..	..	..	..	71	57	3	6	1	1	..	1	2	..	..	..	..	71	24,097
Foul chimneys .....	..	163	..	..	..	..	..	163	156	..	4	2	1	..	..	..	..	..	..	..	163	50
Gas stove igniting woodwork, etc. ....	..	1	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	1	.....
Kerosene-oil used in lighting fires .....	..	4	..	..	..	..	..	4	4	..	..	..	..	..	..	..	..	..	..	..	4	30
Soot in flues and fireplaces igniting woodwork .....	..	36	..	..	..	..	..	36	30	1	3	1	1	..	..	..	..	..	..	..	36	30,965
Sparks from stoves, chimneys, stove-pipes, etc., igniting woodwork, clothing, etc.	30	23	..	..	..	..	..	53	27	7	12	..	1	1	2	..	1	..	..	2	53	21,714
Steam-pipes igniting floor beams, woodwork, etc.	3	1	..	..	..	..	..	4	..	2	1	1	..	..	..	..	..	..	..	4	90	
Stove, boilers, furnaces, stove and heater pipes igniting bedding, clothing, woodwork, etc.	82	137	..	..	..	..	..	219	172	9	21	7	4	..	1	..	1	1	1	2	219	64,552
Stoves, furnaces and grates, hot coals falling from	28	4	..	..	..	..	..	32	21	2	5	1	..	..	1	..	..	..	1	1	32	149,199
Stoves upsetting	3	3	..	..	..	..	..	6	3	..	2	1	..	..	..	..	..	..	..	6	17,495	
Water-back of range bursting	3	..	..	..	..	..	..	3	2	..	..	..	..	..	1	..	..	..	..	3	80	
Total number of fires	149	372	81	602	480	26	55	14	8	1	5	2	2	1	1	2	5	602
Total loss	\$210,314	\$46,886	\$59,132	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	\$316,332
In Illuminating.																							
Calcium lights	2	..	..	..	..	..	..	2	..	..	..	..	..	..	2	..	..	..	..	..	2	.....
Electric lights, sparks from	40	..	..	..	..	..	..	40	6	12	6	4	6	..	1	..	..	1	..	4	40	\$52,165
Gas, explosion of	2	1	..	..	..	..	..	3	1	..	..	..	..	..	..	..	..	..	..	2	3	25
Gas-meters, explosion of	1	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	1	.....
Gas escaping and igniting	21	41	..	..	..	..	1	63	36	10	9	..	4	..	1	1	..	..	..	2	63	48,632
Gas-lights, candles, lamps, etc., igniting merchandise in stores, show-rooms, and bedding, straw, woodwork, rubbish, etc.	12	271	..	..	..	..	..	283	213	28	21	2	5	..	5	..	6	..	1	2	283	111,131
Lamps, kerosene-oil, breaking	2	..	..	..	..	..	..	2	2	..	..	..	..	..	..	..	..	..	..	..	2	1,100
Lamps, kerosene-oil, exploding	221	1	..	..	..	..	..	222	208	3	5	..	..	1	..	..	..	..	1	4	222	34,848
Lamps, kerosene-oil, falling	22	23	..	..	..	..	..	45	39	..	3	..	..	2	..	..	..	..	1	..	45	14,375
Lamps, kerosene-oil, upsetting	17	49	..	..	1	..	..	67	51	2	7	..	..	3	1	1	..	..	1	1	67	46,703
Lamps, kerosene-oil, taking fire	2	..	..	..	..	..	..	2	2	..	..	..	..	..	..	..	..	..	..	2	85	
Matches, lighted tapers, etc., igniting clothing, woodwork, rubbish, etc. ....	..	119	..	..	..	..	..	119	69	11	21	..	1	..	14	1	1	..	1	..	119	140,709
Total number of fires	342	505	1	..	1	849	628	66	72	6	16	..	25	6	9	..	2	4	15	849
Total loss	\$167,340	\$275,706	..	..	\$12	..	\$6,715	..	..	..	..	..	..	..	..	..	..	..	..	..	..	\$449,773
In Manufacturing and Other Business.																							
Alcohol, tar, gum, oils, paints, varnish, etc., igniting on stoves, furnaces, over gas-lights, etc.	37	4	..	..	..	..	..	41	3	5	21	..	7	..	..	..	..	..	2	3	41	\$61,295
Chemicals igniting	1	..	..	..	..	..	1	2	..	..	2	..	..	..	..	..	..	..	..	..	2	525
Charcoal fire igniting woodwork .....	..	1	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	1	300
Chimneys, flues, etc., heat from igniting woodwork .....	..	..	13	..	..	..	..	13	..	..	12	..	..	..	..	..	1	..	..	..	13	28,325
Electric wires, defect in insulation	1	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	1	4,500
Foul chimneys .....	..	10	..	..	..	..	..	10	2	..	5	..	3	..	..	..	..	..	..	..	10	.....
Friction of machinery	9	..	..	..	..	..	..	9	..	1	8	..	..	..	..	..	..	..	..	..	9	136,880
Gas stoves, gas-lights, igniting woodwork, paper, merchandise, etc.	7	1	..	..	..	..	..	8	1	2	4	..	1	..	..	..	..	..	..	..	8	111,612
Hams, meats, etc., in ovens and smoke-houses, igniting	5	..	..	..	..	..	..	5	..	..	5	..	..	..	..	..	..	..	..	..	5	1,035
Hot metals igniting woodwork, merchandise, etc.	2	2	..	..	..	..	..	4	1	..	2	..	..	..	..	..	..	..	..	1	4	150
Kerosene-oil stoves bursting, taking fire, etc.	2	..	..	..	..	..	..	2	..	..	2	..	..	..	..	..	..	..	..	..	2	2,075
Lamp, alcohol, taking fire, upsetting, bursting, etc.	3	..	..	..	..	..	..	3	1	..	2	..	..	..	..	..	..	..	..	3	250	
Lime, slaking of	14	..	..	..	..	..	..	14	2	3	..	..	..	..	..	..	3	..	..	6	14	2,121
Naptha and benzine vapor igniting	8	1	..	..	..	..	..	9	..	..	9	..	..	..	..	..	..	..	..	9	1,405	
Phosphorous igniting	1	..	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	1	.....	
Scenery in theatres igniting from gas-lights, etc.	1	3	..	..	..	..	..	4	..	..	..	..	..	..	4	..	..	..	..	4	.....	
Sparks from chimneys, forges, furnaces, engines, steamships, locomotives, etc., igniting roofs, shavings, woodwork, etc.	105	20	..	..	..	..	..	125	23	19	51	1	8	..	1	..	1	..	3	18	125	494,889
Steam pipes igniting merchandise	11	3	..	..	..	..	..	14	1	2	11	..	..	..	..	..	..	..	..	14	126,775	
Spontaneous combustion of oily rags, etc.	37	6	..	..	..	..	..	43	3	5	30	..	..	..	..	..	..	..	4	1	43	160,715
Stoves, boilers, furnaces, ovens, etc., igniting merchandise, shavings, etc.	41	29	..	..	..	..	..	70	14	1	42	..	9	..	..	..	..	..	3	1	70	39,470
Stoves, furnaces, etc., hot coals falling from	14	9	..	..	..	..	..	23	8	2	7	..	1	..	1	1	1	..	2	23	302,740	
Stoves upsetting	1	..	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	1	1	
Vitrol, acids, spirits, etc., carboys of, breaking or vapor igniting	3	..	..	..	..	..	..	3	..	1	2	..	..	..	..	..	..	..	..	3	10	
Total number of fires	303	89	13	1	406	59	41	218	2	29	..	2	5	1	5	..	12	32	406
Total loss	\$1,095,288	\$350,945	\$28,325	..	..	..	\$515	.....	..	..	..	..	..	..	..	..	..	..	..	..	..	\$1,475,073
Miscellaneous.																							
Alcohol stove taking fire	1	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	1	\$150	
Benzine, alcohol, vapor igniting, etc.	2	2	..	..	..	..	..	4	4	..	..	..	..	..	..	..	..	..	..	4	75	
Bonfires and sparks from .....	..	2	..	14	..	..	..	16	2	..	..	..	..	1	..	..	..	..	..	13	16	5,135
Cigars, pipes, etc., smoking of	229	..	1	3	233	88	30	58	8	13	..	17	5	3	4	2	1	4	233	540,764
Defective flues and chimneys .....	..	..	12	..	..	..	..	12	11	..	..	..	..	1	..	..	..	..	..	12	2,265	

ORIGIN.	CAUSE.							PREMISES WHEREIN FIRE ORIGINATED OCCUPIED AS—													Aggregate Loss to Structures and Contents.			
	Accidental.	Carelessness.	Defective Building and Construction.	Mischievousness.	Maliciousness.	Incendiarism.	Not Ascertained.	Total.	Dwellings.	Mercantile Establishments, Manufactories and Workshops.	Offices.	Restaurants and Saloons.	Storehouses.	Stables.	Places of Amusement and Recreation.	Religious and Educational Institutions.	Lumber, Coal and Wood Yards.	Piers, Docks, etc.	Vessels.	Miscellaneous.		Total.		
Kerosene-oil poured over woodwork, bedding, etc., and ignited.....	..	..	..	..	1	2	..	3	3	..	..	..	..	..	..	..	..	..	..	..	3	\$200
Kerosene-oil stove falling, igniting goods, etc.....	1	1	..	..	..	..	..	2	2	..	..	..	..	..	..	..	..	..	..	..	2	355
Kerosene-oil stoves exploding.....	2	..	..	..	..	..	..	2	1	..	1	..	..	..	..	..	..	..	..	..	2	29,160
Kerosene-oil stoves upsetting.....	6	11	..	..	..	..	..	17	15	..	1	..	..	..	..	1	..	..	..	..	17	195
Kerosene-oil stoves taking fire.....	80	..	..	..	..	..	..	80	73	2	3	..	..	..	..	..	..	..	1	1	80	8,868
Lightning igniting building, lumber, etc.....	2	..	..	..	..	..	..	2	..	2	..	..	..	..	..	..	..	..	..	..	2	14,400
Matches, children playing with.....	..	..	..	164	..	..	..	164	152	2	2	..	..	5	..	1	..	..	..	2	164	33,653
Matches gnawed by rats and mice.....	..	36	..	..	..	..	..	36	14	6	10	1	2	..	2	..	..	1	..	..	36	49,660
Matches igniting awnings, straw, rubbish, woodwork, etc.....	14	305	..	35	15	32	..	401	247	38	57	9	6	23	..	2	1	..	2	16	401	468,298		
Not ascertained.....	..	..	..	..	..	..	139	139	58	24	40	3	3	1	6	2	1	..	1	..	139	2,026,127
Phosphorous igniting.....	1	2	..	..	..	..	..	3	3	..	..	..	..	..	..	..	..	..	..	..	3	.....	
Rekindling of previous fire.....	..	..	..	..	..	..	1	1	..	..	..	..	1	..	..	..	..	..	..	..	1	3
Sparks from distant fire.....	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	1	300
Sparks from chimneys, stoves, etc.....	3	1	..	..	..	..	..	4	4	..	..	..	..	..	..	..	..	..	..	..	4	1,015
Sparks from fire engine.....	3	..	..	..	..	..	..	3	..	1	1	..	1	..	..	..	..	..	..	..	3	65
Spontaneous combustion of oily rubbish, etc.....	3	1	..	..	..	..	..	4	3	..	..	1	..	..	..	..	..	..	..	..	4	70
Stoves upsetting.....	1	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	1	15
Stoves, stove pipes, etc., heat from igniting woodwork, etc.....	8	8	..	..	..	..	..	16	13	..	3	..	..	..	..	..	..	..	..	..	16	295
Sulphur igniting clothing, etc.....	1	1	..	..	..	..	..	2	2	..	..	..	..	..	..	..	..	..	..	..	2	1,400
Thawing out water-pipes with candles, lamps, lighted paper, etc.....	..	48	..	..	..	..	..	48	34	4	5	1	1	..	2	..	..	..	..	1	48	11,257
Tramps building fires in woods, unoccupied houses, etc.....	..	5	..	..	..	..	..	5	1	..	2	..	..	1	..	..	..	..	..	1	5	13
Total number of fires.....	148	775	12	231	19	34	141	1,360	853	118	199	26	28	2	58	10	9	5	4	6	42	1,360	
Total loss.....	\$62,751	\$1,074,866	\$2,265	\$37,365	\$4,971	\$36,071	\$2,026,455	.....	..	..	..	..	..	..	..	..	..	..	..	..	.....	\$3,244,744
RECAPITULATION.																								
In Heating.....	Number of fires.....	149	372	81	602	480	26	55	14	8	1	5	2	2	1	1	2	5	602	
	Loss.....	\$210,314	\$46,886	\$59,132	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	\$316,332
In Illuminating.....	Number of fires.....	342	505	1	1	849	628	66	72	6	16	..	25	6	9	..	2	4	15	849	
	Loss.....	\$167,340	\$275,706	..	..	\$12	..	\$6,715	..	..	..	..	..	..	..	..	..	..	..	..	..	449,773
In Manufacturing, etc.....	Number of fires.....	303	89	13	1	406	59	41	218	2	29	..	2	5	1	5	..	12	32	406	
	Loss.....	\$1,095,288	\$350,945	\$28,325	..	..	..	\$515	..	..	..	..	..	..	..	..	..	..	..	..	..	1,475,973
In Miscellaneous.....	Number of fires.....	148	775	12	231	19	34	141	1,360	853	118	199	26	28	2	58	10	9	5	4	6	42	1,360
	Loss.....	\$62,751	\$1,074,866	\$2,265	\$37,365	\$4,971	\$36,071	\$2,026,455	.....	..	..	..	..	..	..	..	..	..	..	..	..	3,244,744
Aggregate.....	Number of fires.....	942	1,741	105	231	20	34	143	3,217	2,020	251	544	48	81	3	60	23	21	11	7	24	94	3,217
	Loss.....	\$1,535,693	\$1,748,403	\$8,722	\$37,365	\$4,983	\$36,071	\$2,033,683	\$5,485,922	

Origin (Consolidated) and Cause of Fires, by Months.

ORIGIN BY MONTHS.	CAUSE.							PREMISES WHEREIN FIRE ORIGINATED OCCUPIED AS—												Aggregate Loss to Structures and Contents.			
	Accidental.	Carelessness.	Defective Buildings and Construction.	Mischievousness.	Maliciousness.	Incendiarism.	Not ascertained.	Total.	Dwellings.	Mercantile Establishments.	Manufactories and Workshops.	Offices.	Restaurants and Saloons.	Storehouses.	Stables.	Places of Amusement and Recreation.	Religious and Educational Institutions.	Lumber, Coal and Wood Yards.	Piers, Docks, etc.		Vessels.	Miscellaneous.	Total.
<i>In Heating.</i>																							
January	38	66	17	..	..	..	..	121	94	7	11	5	1	..	1	..	..	..	1	..	1	121	\$51,107
February	18	52	13	..	..	..	..	83	70	..	7	1	1	..	2	..	..	1	..	..	1	83	42,807
March.....	22	55	8	..	..	..	..	85	64	5	9	3	1	..	1	..	..	..	..	..	2	85	50,964
April.....	11	48	6	..	..	..	..	65	58	1	5	..	1	..	..	..	..	..	..	..	..	65	7,447
May	6	29	8	..	..	..	..	43	42	1	..	..	..	..	..	..	..	..	..	..	..	43	2,675
June	5	19	3	..	..	..	..	27	21	1	2	1	1	1	..	..	..	..	..	..	..	27	3,545
July .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....	.....
August .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....	.....
September.....	5	13	5	..	..	..	..	23	21	..	2	..	..	..	..	..	..	..	..	..	..	23	2,155
October	12	16	6	..	..	..	..	34	28	2	4	..	..	..	..	..	..	..	..	..	..	34	4,030
November	8	29	3	..	..	..	..	40	27	3	4	1	1	..	1	..	2	..	..	1	..	40	5,310
December	24	45	12	..	..	..	..	81	55	6	11	3	2	..	..	2	..	..	..	1	1	81	146,292
Total.....	149	372	81	..	..	..	..	602	480	26	55	14	8	1	5	2	2	1	1	2	5	602	\$316,332
<i>In Illuminating.</i>																							
January	31	69	..	..	..	..	..	100	74	5	9	..	2	..	4	1	1	..	..	1	3	100	\$63,383
February	25	49	..	..	..	..	..	74	47	7	12	1	1	..	3	..	2	..	..	1	..	74	50,573
March.....	23	46	..	..	..	..	..	69	53	4	4	1	..	..	4	..	..	..	1	..	2	60	44,447
April.....	33	38	..	..	..	..	..	71	59	4	2	..	..	..	3	1	1	..	..	..	1	71	10,512
May.....	35	32	..	..	..	..	..	67	51	5	9	1	..	..	1	..	..	..	..	..	..	67	105,827
June.....	28	46	..	..	..	..	..	74	65	3	2	..	2	..	1	..	1	..	..	..	..	74	16,622
July.....	26	33	..	..	..	..	..	59	46	3	4	..	..	..	2	..	2	..	..	..	2	59	51,305
August	29	37	..	..	..	..	..	66	46	7	7	2	2	..	..	1	..	..	..	..	1	66	27,567
September	24	38	..	..	..	..	..	62	45	3	4	..	3	..	3	..	2	..	1	..	1	62	16,595

ORIGIN BY MONTHS.	CAUSE.							PREMISES WHEREIN FIRE ORIGINATED OCCUPIED AS—													Aggregate Loss to Structures and Contents.		
	Accidental.	Carelessness.	Defective Buildings and Construction.	Mischievousness.	Maliciousness.	Incendiarism.	Not ascertained.	Total.	Dwellings.	Mercantile Establishments.	Manufactories and Workshops.	Offices.	Restaurants and Saloons.	Storehouses.	Stables.	Places of Amusement and Recreation.	Religious and Educational Institutions.	Lumber, Coal and Wood Yards.	Piers, Docks, etc.	Vessels.		Miscellaneous.	Total.
October	22	38	..	..	..	..	..	60	40	6	8	..	2	..	1	1	..	..	..	..	2	60	\$18,605
November	32	31	..	..	..	..	..	63	46	6	5	..	2	..	..	1	..	..	..	1	2	63	27,743
December	34	48	..	..	1	..	1	84	56	13	6	1	2	..	3	1	..	..	..	1	1	84	16,594
Total	342	505	..	..	1	..	1	849	628	66	72	6	16	..	25	6	9	..	2	4	15	849	\$449,773
In Manufacturing and other Business.																							
January	27	7	2	..	..	..	..	36	6	1	27	..	1	..	..	..	..	..	..	1	..	36	\$129,685
February	31	7	..	..	..	..	..	38	6	4	21	..	2	..	1	1	..	..	..	1	2	38	133,200
March	23	7	3	..	..	..	..	33	4	4	18	..	1	..	..	..	..	1	..	..	5	33	471,580
April	24	9	..	..	..	..	..	33	7	4	19	..	..	..	..	1	..	..	..	1	1	33	188,430
May	19	8	1	..	..	..	1	29	7	3	13	..	2	..	..	2	..	1	..	..	1	29	21,607
June	34	7	2	..	..	..	..	43	9	3	21	..	8	..	..	..	..	..	..	..	2	43	12,690
July	25	6	3	..	..	..	..	34	4	2	24	..	..	..	..	2	..	..	..	1	2	34	14,745
August	33	13	1	..	..	..	..	47	3	6	16	..	4	..	1	..	1	2	..	3	11	47	301,718
September	26	5	..	..	..	..	..	31	4	3	17	..	4	..	..	..	..	1	..	2	..	31	9,470
October	20	5	1	..	..	..	..	26	3	3	15	1	2	..	..	..	..	..	..	2	..	26	20,625
November	22	6	..	..	..	..	..	28	4	5	14	1	..	..	..	..	..	..	..	1	3	28	147,807
December	19	9	..	..	..	..	..	28	2	3	13	..	5	..	..	..	..	..	..	..	5	28	23,516
Total	303	89	13	..	..	..	1	406	59	41	218	2	29	..	2	5	1	5	..	12	32	406	\$1,475,073
Miscellaneous.																							
January	9	72	..	21	1	5	14	122	80	13	18	4	3	..	2	..	..	..	..	1	1	122	\$1,229,123
February	8	51	..	18	1	6	11	95	62	4	17	4	2	..	3	2	..	..	..	..	1	95	251,845
March	3	66	..	14	1	4	10	98	55	7	20	2	1	..	7	1	1	..	..	1	3	98	214,308
April	11	64	..	26	1	2	10	114	67	10	18	2	3	..	7	..	..	..	..	1	6	114	185,097
May	15	46	..	12	3	4	8	88	52	5	11	3	3	..	8	1	..	1	..	..	4	88	83,972
June	18	61	..	31	3	4	11	128	93	12	10	1	..	2	5	1	..	..	..	..	4	128	380,073
July	29	144	8	31	3	3	14	232	179	11	20	2	3	..	5	1	1	3	1	..	6	232	261,623
August	23	67	4	14	1	2	8	119	72	8	21	1	5	..	7	..	2	..	..	..	3	119	73,680
September	11	37	..	10	..	1	16	75	49	7	11	2	2	..	3	..	..	..	1	..	..	75	93,647
October	11	41	..	9	1	1	7	70	36	9	9	..	2	..	4	3	1	1	1	1	3	70	124,076
November	8	54	..	23	2	1	15	103	50	16	16	2	2	..	6	1	1	..	1	..	8	103	180,805
December	2	72	..	12	2	1	17	116	58	16	28	3	2	..	1	..	3	..	..	2	3	116	166,495
Total	148	775	12	231	19	34	141	1,360	853	118	199	26	28	2	58	10	9	5	4	6	42	1,360	\$3,244,744
RECAPITULATION.																							
In Heating	149	372	81	..	..	..	..	602	480	26	55	14	8	1	5	2	2	1	1	2	5	602	\$316,332
In Illuminating	342	505	..	..	1	..	1	849	628	66	72	6	16	..	25	6	9	..	2	4	15	849	449,773
In Manufacturing and other Business	303	89	13	..	..	..	1	406	59	41	218	2	29	..	2	5	1	5	..	12	32	406	1,475,073
Miscellaneous	148	775	12	231	19	34	141	1,360	853	118	199	26	28	2	58	10	9	5	4	6	42	1,360	3,244,744
Total	942	1,741	106	231	20	34	143	3,217	2,020	251	544	48	81	3	90	23	21	11	7	24	94	3,217	\$5,485,922

Origin of Fires by Districts and Months.

First District—Part of City lying South of Chambers Street.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January	1	2	..	3	1	1	..	2	..	4	..	4	2	13	1	16	4	20	1	25	\$44,440	\$106,645	\$151,085
February	3	3	..	6	..	4	..	4	..	6	..	6	4	9	..	13	7	22	..	29	14,680	69,280	84,260
March	4	4	..	8	2	5	..	7	..	4	..	4	1	6	..	7	7	19	..	26	1,950	7,735	9,685
April	2	..	..	2	1	1	..	2	..	5	..	5	2	12	..	14	5	18	..	23	13,620	36,422	50,042
May	1	1	..	2	1	3	..	4	..	3	..	3	..	4	1	5	2	11	1	14	2,400	18,615	21,015
June .....	..	4	..	4	..	1	..	1	1	7	..	8	..	6	..	6	1	18	..	19	4,058	11,490	15,548
July .....	..	..	..	..	..	2	..	2	..	6	..	6	3	4	..	7	3	12	..	15	2,110	8,350	10,460
August .....	..	..	..	..	..	4	..	4	..	4	1	5	3	6	1	10	3	14	2	19	1,685	2,425	4,170
September	1	..	..	1	1	3	..	4	..	6	..	6	..	5	..	5	2	14	..	16	4,475	25,909	30,384
October	1	1	..	2	..	..	..	..	..	4	..	4	..	1	..	1	1	6	..	7	1,600	5,840	7,440
November .....	..	..	..	..	1	1	1	3	..	1	1	2	..	11	..	11	1	13	2	16	16,310	39,375	55,685
December .....	..	3	..	3	4	3	1	8	..	3	..	3	..	9	1	10	4	18	2	24	2,925	21,182	24,117
Total	13	18	..	31	11	28	2	41	1	53	2	56	15	86	4	105	40	185	8	233	\$110,263	\$353,628	\$463,891

Number of buildings in district, as per enumeration in 1885—
Dwellings..... 1,012
Business..... 3,805
Total..... 4,817

Number of fires in dwellings..... 40
Number of fires in business buildings..... 85
Total fires in buildings..... 225

Number of dwellings to each fire..... 25
Number of business places to each fire..... 21
Number of buildings to each fire..... 21

Second District—Part of City lying between Chambers and Houston Streets, West of West Broadway and South Fifth Avenue.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January	2	2	1	5	2	..	..	2	..	..	..	..	2	1	..	3	6	3	1	10	\$475	\$2,380	\$2,855
February	3	..	..	3	..	3	1	4	1	1	1	3	1	..	..	1	5	4	2	11	1,755	4,005	5,760
March	5	1	1	7	1	1	..	2	..	1	..	1	..	3	..	3	6	6	1	13	18,535	61,480	80,015
April	5	1	..	6	4	1	..	5	..	..	1	1	2	3	1	6	11	5	2	18	895	6,785	7,680
May	1	..	..	1	1	..	..	1	..	..	..	..	1	..	1	2	3	..	1	4	.....	.....	.....
June	3	..	..	3	..	..	..	..	..	1	..	1	4	3	..	7	7	4	..	11	50	85	135
July .....	..	..	..	..	1	..	..	1	..	2	1	3	8	3	..	11	9	5	1	15	200	395	595
August .....	..	..	..	..	4	1	..	5	..	2	1	3	4	..	..	4	8	3	1	12	310	665	975
September	1	1	..	2	1	1	..	2	..	..	..	..	1	1	..	2	3	3	..	6	1,780	3,695	5,475
October	1	..	..	1	1	2	..	3	..	..	..	..	..	1	..	1	2	3	..	5	1,200	6,515	7,715
November	1	2	..	3	1	1	..	2	..	1	1	2	2	1	..	3	4	5	1	10	510	515	1,025
December	2	1	..	3	1	..	..	1	..	..	..	..	3	..	..	3	6	1	..	7	125	110	235
Total	24	8	2	34	17	10	1	28	1	8	5	14	28	16	2	46	70	42	10	12	\$25,835	\$86,630	\$112,465

Number of buildings in district, as per enumeration in 1885—
 Dwellings..... 2,518
 Business..... 902
 Total..... 3,420

Number of fires in dwellings..... 70
 Number of fires in business buildings..... 42
 Total fires in buildings..... 112

Number of dwellings to each fire..... 36
 Number of business places to each fire..... 21
 Number of buildings to each fire..... 31

Third District—Part of City lying between Chambers and Houston Streets, West Broadway and South Fifth Avenue, and Crosby, Elm and Centre Streets.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January	1	1	..	2	..	1	1	2	..	1	..	1	1	7	..	8	2	10	1	13	\$288,040	\$841,105	\$1,129,145
February .....	..	1	..	1	..	..	..	..	..	2	..	2	..	2	..	2	..	5	..	5	100	550	650
March .....	..	2	..	2	1	2	1	4	..	..	..	..	..	6	..	6	1	10	1	12	8,985	104,900	113,885
April .....	..	2	..	2	..	..	..	..	..	..	..	..	1	3	..	4	1	5	..	6	10,550	87,650	98,300
May	1	..	..	1	1	..	..	1	..	..	..	..	..	4	..	4	2	4	..	6	2,400	18,335	20,735
June .....	..	..	..	..	1	..	..	1	..	1	..	1	..	..	..	..	1	1	..	2	75	100	175
July .....	..	..	..	..	..	2	1	3	..	1	..	1	2	4	..	6	2	7	1	10	2,000	56,760	58,760
August .....	..	..	..	..	..	3	..	3	..	1	..	1	..	4	..	4	..	8	..	8	1,550	22,575	24,125
September .....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1	..	1	100	.....	100
October	1	..	..	1	..	..	..	..	..	1	..	1	..	3	..	3	1	4	..	5	4,000	32,600	36,600
November .....	..	1	..	1	..	2	..	2	..	1	..	1	..	4	..	4	..	8	..	8	7,600	127,431	135,031
December .....	..	5	..	5	2	1	..	3	..	..	..	..	..	5	..	5	2	11	..	13	5,485	38,625	44,110
Total	3	12	..	15	5	11	3	19	..	8	..	8	4	43	..	47	12	74	3	89	\$330,985	\$1,330,631	\$1,661,616

Number of buildings in district, as per enumeration in 1885—
 Dwellings..... 333
 Business..... 1,303
 Total..... 1,636

Number of fires in dwellings..... 12
 Number of fires in business buildings..... 74
 Total fires in buildings..... 86

Number of dwellings to each fire..... 28
 Number of business places to each fire..... 18
 Number of buildings to each fire..... 19

Fourth District—Part of City lying between Chambers and Houston Streets, East of Crosby, Elm and Centre Streets.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January	18	8	..	26	27	6	1	34	3	4	1	8	14	4	..	18	62	22	2	86	\$19,080	\$39,720	\$58,800
February	18	..	..	18	18	6	..	24	1	5	..	6	18	3	..	21	55	14	..	69	24,465	91,800	116,265
March	13	6	1	20	20	1	..	21	1	5	..	6	11	4	2	17	45	16	3	64	26,397	58,014	84,411
April	15	..	..	15	18	2	1	21	1	5	..	6	27	7	1	35	61	14	2	77	4,030	13,949	17,979
May	7	..	..	7	14	..	..	14	3	4	..	7	12	2	..	14	36	6	..	42	16,685	19,115	35,800
June	6	..	..	6	21	1	..	22	..	4	..	4	31	6	..	37	58	11	..	69	16,685	36,275	53,060
July .....	..	..	..	..	14	2	..	16	2	5	..	7	44	10	..	54	60	17	..	77	4,528	25,575	28,103
August .....	..	..	..	..	20	1	..	21	..	6	2	8	24	14	..	38	34	21	2	57	13,405	29,575	42,980
September	9	..	..	9	20	8	..	28	1	3	1	5	15	4	..	19	45	15	1	61	3,975	9,267	13,242
October	5	1	..	6	11	3	2	16	..	1	1	2	9	3	1	13	25	8	4	37	2,135	5,485	7,620
November	8	4	..	12	16	2	1	19	1	5	..	6	13	5	1	19	38	16	2	56	13,715	79,075	92,790
December	10	4	..	14	16	6	..	22	..	8	..	8	16	10	..	26	42	28	..	70	15,295	69,302	84,597
Total	109	23	1	133	205	38	5	248	13	55	5	73	234	72	5	311	561	188	16	765	\$160,395	\$475,252	\$635,647

Number of buildings in district, as per enumeration in 1885—
 Dwellings..... 9,994
 Business..... 2,598
 Total..... 12,592

Number of fires in dwellings..... 561
 Number of fires in business buildings..... 188
 Total fires in buildings..... 749

Number of dwellings to each fire..... 18
 Number of business places to each fire..... 14
 Number of buildings to each fire..... 17

Fifth District—Part of City lying between Houston and Twenty-third Streets.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....	22	5	..	27	13	5	..	18	..	1	..	1	16	3	1	30	51	14	1	66	\$4,695	\$8,327	\$13,022
February.....	17	..	1	18	6	4	..	10	3	2	..	5	5	5	..	10	31	11	1	43	44,205	157,135	201,340
March.....	11	3	..	14	11	1	..	12	..	6	1	7	9	3	..	12	31	13	1	45	3,690	32,070	35,760
April.....	13	2	..	15	12	1	..	13	2	5	..	7	5	6	..	11	32	14	..	46	35,205	120,735	155,940
May.....	10	..	..	10	13	5	..	18	1	1	1	3	12	9	..	21	36	15	1	52	8,145	30,890	39,035
June.....	3	1	..	4	11	2	..	13	1	7	..	8	18	6	2	26	33	16	2	51	61,275	42,446	103,721
July.....	..	..	..	..	8	2	1	11	..	3	..	3	31	10	2	43	39	15	3	57	29,967	115,107	145,074
August.....	..	..	..	..	7	4	..	11	1	7	1	9	11	8	..	19	19	19	1	39	5,235	19,537	24,772
September.....	4	1	..	5	8	..	..	8	2	4	1	7	11	4	..	15	25	9	1	35	1,815	6,900	8,715
October.....	4	3	..	7	9	3	..	12	1	4	1	6	9	9	..	18	23	19	1	43	7,275	68,041	75,316
November.....	3	1	..	4	8	4	..	12	..	3	..	3	12	11	2	25	23	19	2	44	4,055	17,955	22,010
December.....	12	4	..	16	10	5	..	15	..	3	..	3	9	10	1	20	31	22	1	54	5,722	33,885	39,607
Total.....	99	20	1	120	116	36	1	153	11	46	5	62	148	84	8	240	374	186	15	575	\$211,284	\$653,028	\$864,312

Number of buildings in district, as per enumeration in 1885—
 Dwellings..... 15,986
 Business..... 3,836
 Total..... 19,822

Number of fires in dwellings..... 374
 Number of fires in business buildings..... 186
 Total fires in buildings..... 560

Number of dwellings to each fire..... 43
 Number of business places to each fire..... 21
 Number of buildings to each fire..... 35

Sixth District—Part of City lying between Twenty-third and Fifty-ninth Streets.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....	23	5	..	28	18	5	1	24	3	10	..	13	18	7	..	25	62	27	1	90	\$34,270	\$35,080	\$69,350
February.....	14	5	..	19	17	3	..	20	..	8	1	9	17	6	1	24	48	22	2	72	14,635	21,538	36,173
March.....	15	2	..	17	16	4	1	21	1	3	..	4	20	9	1	30	52	18	2	72	162,615	259,673	422,288
April.....	16	1	..	17	12	3	..	15	3	1	..	4	20	2	1	23	51	7	1	59	18,878	13,415	32,293
May.....	15	..	..	15	9	3	..	12	3	9	..	12	12	7	1	20	39	19	1	59	11,270	50,642	61,912
June.....	4	1	..	5	14	3	..	17	2	7	..	9	21	5	..	26	41	16	..	57	51,717	178,290	230,007
July.....	..	..	..	..	11	2	..	13	2	5	..	7	46	9	..	55	59	16	..	75	19,640	54,907	74,547
August.....	..	..	..	..	15	5	1	21	1	3	2	6	15	4	..	19	31	12	3	46	5,150	15,330	20,480
September.....	1	..	..	1	11	1	1	13	..	10	..	10	10	2	..	12	22	13	1	36	17,890	39,150	57,040
October.....	8	..	..	8	10	5	..	15	..	6	..	6	11	8	3	22	29	19	3	51	6,650	15,460	22,110
November.....	5	3	..	8	14	1	1	16	1	6	..	7	11	8	1	20	31	18	2	51	7,702	28,991	36,693
December.....	15	4	..	19	11	7	..	18	..	4	..	4	15	8	..	23	41	23	..	64	5,927	23,695	29,622
Total.....	116	21	..	137	158	42	5	205	16	72	3	91	216	75	8	299	506	210	16	732	\$356,344	\$736,171	\$1,092,515

Number of buildings in district, as per enumeration in 1885—
 Dwellings..... 22,274
 Business..... 4,585
 Total..... 26,859

Number of fires in dwellings..... 506
 Number of fires in business buildings..... 210
 Total fires in buildings..... 716

Number of dwellings to each fire..... 44
 Number of business places to each fire..... 21
 Number of buildings to each fire..... 38

Seventh District—Part of City lying between Fifty-ninth and One Hundred and Tenth Streets, West of Fifth Avenue.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....	3	1	..	4	..	..	..	..	..	..	..	..	4	1	..	5	7	2	..	9	\$355	\$427	\$782
February.....	1	1	..	2	1	..	..	1	..	1	..	1	3	..	..	3	5	2	..	7	3,975	3,395	7,370
March.....	2	1	..	3	1	..	..	1	..	1	3	4	1	..	..	1	4	2	3	9	205	80	285
April.....	1	..	..	1	3	..	..	3	..	..	..	..	1	..	..	1	5	..	..	5	165	65	230
May.....	2	..	..	2	2	1	..	3	..	..	..	..	..	..	..	..	4	1	..	5	..	50	50
June.....	..	..	..	..	..	..	..	..	1	..	..	1	2	1	..	3	3	1	..	4	320	150	470
July.....	..	..	..	..	..	..	..	..	..	1	..	1	3	..	..	3	3	1	..	4	28	50	78
August.....	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	2	2	..	..	2	75	..	75
September.....	2	..	..	2	..	..	..	..	..	1	..	1	1	..	..	1	3	1	..	4	275	185	460
October.....	1	..	..	1	3	..	..	3	1	..	..	1	1	..	..	1	6	..	..	6	850	300	1,150
November.....	2	..	..	2	..	..	..	..	..	..	..	..	1	..	..	1	3	..	..	3	5	115	120
December.....	1	..	..	1	1	..	..	1	1	..	..	1	..	..	..	..	3	..	..	3	50	5	55
Total.....	15	3	..	18	11	1	..	12	3	4	3	10	19	2	..	21	48	10	3	61	\$6,303	\$4,822	\$11,125

Number of buildings in district, as per enumeration in 1885—
 Dwellings..... 2,493
 Business..... 1,021
 Total..... 3,514

Number of fires in dwellings..... 48
 Number of fires in business buildings..... 10
 Total fires in buildings..... 58

Number of dwellings to each fire..... 52
 Number of business places to each fire..... 102
 Number of buildings to each fire..... 61

Eighth District—Part of City lying between Fifty-ninth and One Hundred and Tenth Streets, East of Fifth Avenue.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....	12	1	..	13	4	..	..	4	..	2	..	2	16	..	..	16	32	3	..	35	\$1,740	\$6,305	\$8,045
February.....	9	1	..	10	3	2	..	5	..	1	..	1	7	1	..	8	19	5	..	24	1,307	4,200	5,507
March.....	7	..	..	7	1	..	..	1	1	1	..	2	10	2	..	12	19	3	..	22	11,792	13,555	25,347
April.....	3	..	..	3	4	1	..	5	1	3	..	4	2	1	..	3	10	5	..	15	8,133	6,582	14,717
May.....	2	..	..	2	3	2	..	5	..	3	..	3	12	4	..	16	17	9	..	26	3,050	8,715	11,765
June.....	2	..	..	2	10	..	..	10	2	2	1	5	9	2	1	12	23	4	2	29	218	1,432	1,650
July.....	..	..	..	..	7	..	..	7	..	2	..	2	24	3	..	27	31	5	..	36	3,022	2,065	5,087
August.....	..	..	..	..	4	1	..	5	1	3	2	6	6	3	..	9	11	7	2	20	1,005	2,137	3,142
September.....	2	..	..	2	3	2	..	5	..	1	..	1	6	2	..	8	11	5	..	16	1,325	2,960	4,285
October.....	4	..	..	4	..	1	..	1	1	2	..	3	3	3	..	6	8	6	..	14	470	2,010	2,480
November.....	3	..	..	3	3	..	..	3	..	1	..	1	6	2	..	8	12	3	..	15	436	2,116	2,552
December.....	8	..	..	8	6	1	1	8	1	1	..	2	9	6	1	16	24	8	2	34	2,490	4,610	7,100
Total.....	52	2	..	54	48	10	1	59	7	22	3	32	110	29	2	141	217	63	6	286	\$34,990	\$56,737	\$91,727

Number of buildings in district, as per enumeration in 1885—
 Dwellings..... 9,689
 Business..... 1,454
 Total..... 11,143

Number of fires in dwellings..... 217
 Number of fires in business buildings..... 63
 Total fires in buildings..... 280

Number of dwellings to each fire..... 45
 Number of business places to each fire..... 23
 Number of buildings to each fire..... 39

Ninth District—Part of City lying between One Hundred and Tenth Street and Harlem River, West of Eighth Avenue.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....	3	..	..	3	1	..	..	1	..	1	..	1	1	..	..	1	5	1	..	6	\$112	\$232	\$344
February.....	2	..	..	2	1	..	..	1	..	..	..	..	2	2	..	4	5	2	..	7	2,505	3,500	6,005
March.....	..	..	..	..	..	..	..	..	..	..	1	1	..	1	..	1	..	1	1	2	25	.....	25
April.....	1	..	..	1	2	..	..	2	..	2	1	3	1	..	..	1	4	2	1	7	2,595	3,175	5,770
May.....	..	..	..	..	1	..	..	1	..	..	..	..	1	..	1	2	2	..	1	3	365	8	373
June.....	..	..	..	..	2	..	..	2	1	1	..	2	..	..	..	..	3	1	..	4	390	50	440
July.....	..	..	..	..	..	..	..	..	..	..	2	2	..	..	..	..	..	..	2	2	.....	.....	.....
August.....	..	..	..	..	..	..	..	..	..	1	1	2	1	..	..	1	1	1	1	3	175,720	100,000	275,720
September.....	1	..	..	1	..	..	..	..	1	..	..	1	1	..	..	1	3	..	..	3	900	5	905
October.....	..	..	..	..	1	1	..	2	..	2	..	2	..	..	..	..	1	3	..	4	1,115	3,740	3,855
November.....	1	..	..	1	..	1	..	1	..	..	2	2	1	..	1	2	2	1	3	6	25	.....	25
December.....	..	1	..	1	1	..	..	1	..	..	3	3	..	1	..	1	1	2	3	6	160	100	260
Total.....	8	1	..	9	9	2	..	11	2	7	10	19	8	4	2	14	27	14	12	53	\$183,912	\$109,810	\$293,722

Number of buildings in district, as per enumeration in 1885—
 Dwellings..... 1,862
 Business..... 1,560
 Total..... 3,422

Number of fires in dwellings..... 27
 Number of fires in business buildings..... 14
 Total fires in buildings..... 41

Number of dwellings to each fire..... 69
 Number of business places to each fire..... 111
 Number of buildings to each fire..... 83

Tenth District—Part of City lying between One Hundred and Tenth Street and Harlem River, East of Eighth Avenue.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....	3	..	..	3	7	3	..	10	..	2	..	2	3	2	..	5	12	7	..	20	\$1,480	\$1,535	\$3,015
February.....	2	..	..	2	1	2	..	3	1	3	1	5	3	2	..	5	7	7	1	15	5,335	2,120	7,455
March.....	3	..	..	3	..	..	..	..	..	1	..	1	3	4	1	8	6	5	1	2	278	2,055	2,333
April.....	1	1	..	2	2	2	..	4	..	3	..	3	5	2	..	7	8	8	..	16	1,335	2,835	4,220
May.....	2	..	..	2	4	1	..	5	..	..	..	..	2	1	..	3	8	2	..	10	35	336	371
June.....	3	..	..	3	2	1	..	3	..	2	..	2	6	2	..	8	11	5	..	16	1,522	4,240	5,762
July.....	..	..	..	..	3	..	..	3	..	2	..	2	11	2	2	15	14	4	2	20	619	995	1,614
August.....	..	..	..	..	3	..	..	3	..	1	2	3	5	4	..	9	8	5	2	15	410	1,105	1,515
September.....	..	..	..	..	1	..	..	1	..	..	..	..	2	4	..	6	3	4	..	7	210	301	511
October.....	2	..	..	2	3	2	..	5	..	1	..	1	1	..	..	1	6	3	..	9	15	95	110
November.....	3	1	1	5	2	2	..	4	..	2	..	2	2	2	..	4	7	7	1	15	6,457	7,292	13,749
December.....	4	2	1	7	3	1	..	4	..	2	..	2	5	2	..	7	12	7	1	20	81,626	33,148	114,774
Total.....	23	4	2	29	31	14	..	45	1	19	3	23	48	27	3	78	103	64	8	175	\$99,372	\$56,057	\$155,429

Number of buildings in district, as per enumeration in 1885—
 Dwellings..... 6,941
 Business..... 945
 Total..... 7,886

Number of fires in dwellings..... 103
 Number of fires in business buildings..... 64
 Total fires in buildings..... 167

Number of dwellings to each fire..... 67
 Number of business places to each fire..... 15
 Number of buildings to each fire..... 47

Eleventh District—Part of City lying between Harlem and East Rivers, Kingsbridge Road, etc., and Bronx River.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....	5	1	..	6	1	1	1	3	..	4	..	4	3	2	..	5	9	8	1	18	\$10,945	\$25,485	\$36,430
February.....	1	1	..	2	..	..	..	..	..	..	..	..	1	2	..	3	2	3	..	5	690	650	1,340
March.....	3	..	..	3	..	..	..	..	1	2	..	3	..	..	..	..	4	2	..	6	4,475	1,200	5,675
April.....	1	..	..	1	1	..	..	1	..	..	..	..	..	3	2	5	2	3	2	7	3,600	710	4,310
May.....	1	..	..	1	2	1	..	3	..	1	..	1	..	1	..	1	3	3	..	6	9,050	13,975	23,025
June.....	..	..	..	..	4	1	..	5	1	..	1	2	2	..	1	3	7	1	2	10	1,160	802	1,962
July.....	..	..	..	..	2	..	..	2	..	..	..	..	7	1	2	10	9	1	2	12	2,102	603	2,705
August.....	..	..	..	..	3	..	..	3	..	2	2	4	1	1	2	4	4	3	4	11	2,315	2,646	4,961
September.....	..	..	..	..	..	1	..	1	..	..	..	..	2	3	..	5	2	4	..	6	515	235	750
October.....	1	1	..	2	2	1	..	3	..	..	..	..	1	2	..	3	4	4	..	8	2,355	460	2,815
November.....	1	..	..	1	1	..	..	1	1	..	..	1	2	1	3	6	5	1	3	9	1,305	680	1,985
December.....	2	..	1	3	..	2	..	2	..	..	2	2	1	2	2	5	3	4	5	12	5,615	2,705	8,320
Total.....	15	3	1	19	16	7	1	24	3	9	5	17	20	18	12	50	54	37	19	110	\$44,127	\$50,151	\$94,278

Number of buildings in district, as per enumeration in 1885—
 Dwellings 6,989
 Business..... 3,184
 Total..... 10,173

Number of fires in dwellings..... 54
 Number of fires in business buildings..... 37
 Total fires in buildings..... 91

Number of dwellings to each fire..... 129
 Number of business places to each fire..... 89
 Number of buildings to each fire..... 112

Twelfth District—Part of City lying North of Spuyten Duyvil Creek and Kingsbridge Road, etc.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	\$300	\$125	\$425
February.....	..	..	..	..	..	2	..	2	..	..	..	..	1	..	..	1	1	2	..	3	2,000	4,300	6,300
March.....	1	..	..	1	..	..	..	..	..	..	..	..	1	1	..	1	1	1	..	2	840	750	1,590
April.....	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2	4	1	1	2	4	5	.....	5
May.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....	.....	.....
June.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....	.....	.....
July.....	..	..	..	..	..	1	..	1	..	..	..	..	..	1	..	1	..	2	..	2	650	.....	650
August.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....	.....	.....
September.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....	.....	.....
October.....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	1	..	..	1	25	100	125
November.....	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	1	..	..	1	.....	.....	.....
December.....	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	1	.....	100	100
Total.....	2	..	..	2	1	3	..	4	1	..	..	1	2	3	2	8	7	6	2	15	\$3,820	\$5,375	\$9,195

Number of buildings in district, as per enumeration in 1885—
 Dwellings 945
 Business..... 874
 Total..... 1,619

Number of fires in dwellings..... 7
 Number of fires in business buildings..... 6
 Total fires in buildings..... 13

Number of dwellings to each fire..... 135
 Number of business places to each fire..... 112
 Number of buildings to each fire..... 124

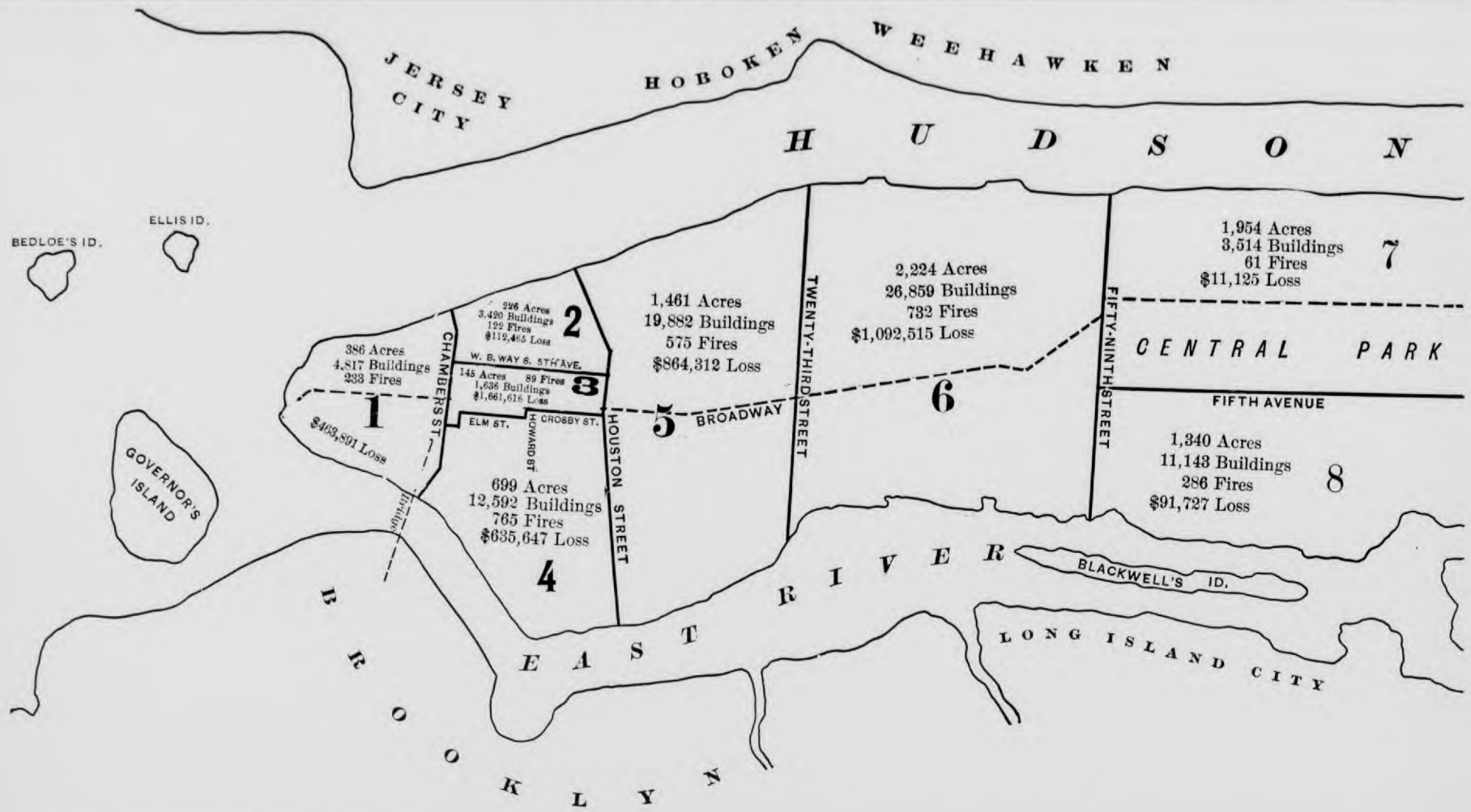
Thirteenth District—Governor's, Bedloe's, Ellis', Blackwell's, Ward's, Randall's and North Brother Islands.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....
February.....
March.....
April.....
May.....
June.....
July.....
August.....
September.....
October.....
November.....
December.....	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..
Total.....	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..

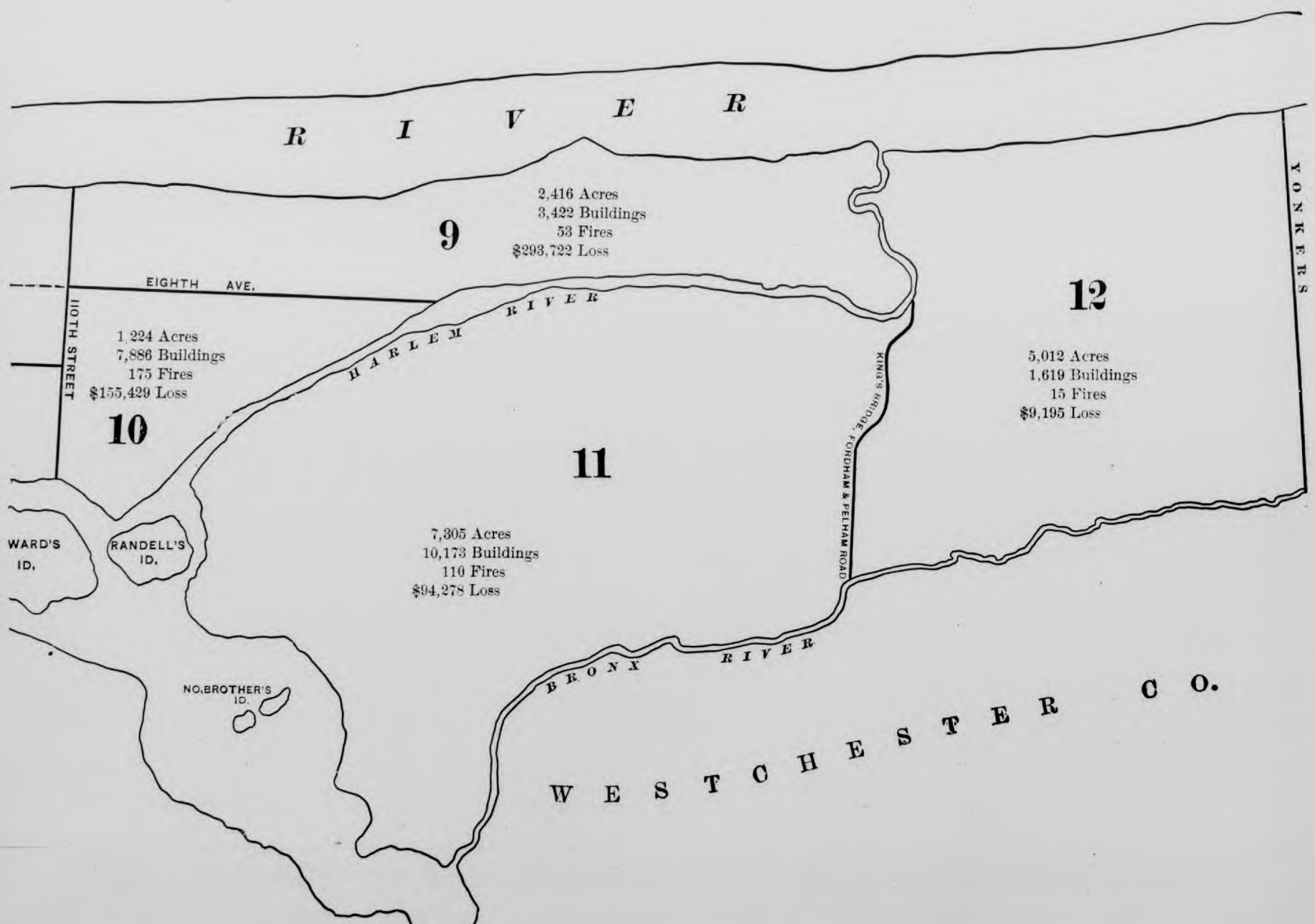
Number of buildings in district, as per enumeration in 1885—
 Dwellings..... 219
 Business..... 231
 Total..... 450

Number of fires in dwellings..... 1
 Number of fires in business buildings..... ..
 Total fires in buildings..... 1

Number of dwellings to each fire..... 219
 Number of business places to each fire..... ..
 Number of buildings to each fire..... 450



NOTE.—The true positions of Bedloe's and Ellis' Islands are considerably south and west of the locations given them for convenience on this map. The number of buildings on all of the islands is 450, and the number of fires was 1. Loss \$0. The number of buildings, as per last enumeration in 1885, was 450.



Recapitulation.

DISTRICTS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				NUMBER OF BUILDINGS.			AVERAGE NUMBER OF BUILDINGS TO EACH FIRE.			LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business, etc.	Total.	Dwellings.	Business, etc.	Total.	Buildings.	Contents.	Total.
First	13	18	..	31	11	28	2	41	1	53	2	56	15	86	4	105	40	185	8	233	1,012	3,805	4,817	25	21	21	\$110,263	\$353,628	\$463,891
Second	24	8	2	34	17	10	1	28	1	8	5	14	28	16	2	46	70	42	10	122	2,518	902	3,420	36	21	31	25,835	86,630	112,465
Third	3	12	..	15	5	11	3	19	..	8	..	8	4	43	..	47	12	74	3	89	333	1,303	1,636	28	18	19	330,985	1,330,631	1,661,616
Fourth	109	23	1	133	205	38	5	248	13	55	5	73	234	72	5	311	561	188	16	765	9,974	2,598	12,572	18	14	17	160,395	475,252	635,647
Fifth	99	20	1	120	116	36	1	153	11	46	5	62	148	84	8	240	374	186	15	575	15,986	3,836	19,822	43	21	35	211,284	653,028	864,312
Sixth.....	116	21	..	137	158	42	5	205	16	72	3	91	216	75	8	299	506	210	16	732	22,274	4,585	26,859	44	21	38	356,344	736,171	1,092,515
Seventh	15	3	..	18	11	1	..	12	3	4	3	10	19	2	..	21	48	10	3	61	2,493	1,021	3,514	52	102	61	6,303	4,822	11,125
Eighth	52	2	..	54	48	10	1	59	7	22	3	32	110	29	2	141	217	63	6	286	9,689	1,454	11,143	45	23	39	34,990	56,737	91,727
Ninth	8	1	..	9	9	2	..	11	2	7	10	19	8	4	2	14	27	14	12	53	1,862	1,560	3,422	69	111	83	183,912	109,810	293,722
Tenth	23	4	2	29	31	14	..	45	1	19	3	23	48	27	3	78	103	64	8	175	6,941	945	7,886	67	15	47	99,372	56,057	155,429
Eleventh	15	3	1	19	16	7	1	24	3	9	5	17	20	18	12	50	54	37	19	110	6,989	3,184	10,173	129	89	112	44,127	50,151	94,278
Twelfth	2	..	..	2	1	3	..	4	1	..	..	1	3	3	2	8	7	6	2	15	945	674	1,619	135	112	124	3,820	5,375	9,195
Thirteenth	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	219	231	450	219	..	450	.....	.....	.....
Total.....	480	115	7	602	628	212	19	849	59	303	44	406	853	459	48	1,360	2,020	1,079	118	3,217	81,255	26,058	107,353	40	24	34	\$1,576,630	\$3,918,292	\$5,485,922

Indictments and Convictions for Arson, Incendiarism, etc.

DESCRIPTION OF PERSONS.						NATURE OF CHARGE AND CIRCUMSTANCES.	NATURE OF INDICTMENT AND DATE.	WHEN AND OF WHAT CONVICTED.	SENTENCE AND REMARKS.
Name.	Age.	Sex.	Color.	Nativity.	Occupation.				
May Wilson	11	Female..	White..	United States	None	Setting fire to Hospital for Ruptured and Crippled Children, Lexington avenue, northwest corner of Forty-second street, February 2 .....	.....	.....	February 4, sent to care of "Society for Prevention of Cruelty to Children."
John M. D. Fanshawe ..	28	Male....	"	"	Clerk	Setting fire to premises No. 50 East Twenty-ninth street, February 3	February 21, arson, first degree..	.....	March 2, bailed in \$7,500.
Thomas Eagan	40	"	"	Ireland.....	Laborer	Setting fire to premises No. 214 East Twenty-ninth street, March 15	March 23, arson, second degree..	.....	Indictment dismissed by the Court.
Gerson Zyguas	45	"	"	Poland	Shoemaker ..	Setting fire to premises No. 210 Delancey street, April 6	April 26, arson, first degree....	.....	Acquitted, May 25.
William Wichman	34	"	"	Germany....	Driver	Setting fire to premises No. 66 Norfolk street, May 16	May 25, arson, third degree	Attempt at arson, third degree	Three years State Prison.
John Miller	39	"	"	"	Carpenter ...	Setting fire to premises No. 1657 Third avenue, June 2	June 18, arson, second degree ..	.....	Plea of attempted arson, third degree, accepted by the Court.
Mary Ismay Schafer ..	48	Female..	"	Ireland.....	Housekeeper.	Setting fire to premises No. 125 East Eleventh street, August 4	Sept. 5, arson, second degree...	October 30, arson, second degree	Indictment dismissed by the Court.
Henry Schafer	45	Male....	"	Germany....	Laborer .....	.....	Sept. 5, arson, second degree....	.....	Seven years, Penitentiary. Dismissed by the Court for want of sufficient evidence to implicate.

BUREAU OF COMBUSTIBLES.

Operations under the Laws Regulating the Storage of Combustibles and Explosive Materials, etc.

COMPLAINTS OF VIOLATIONS, ETC.	Pending last Report.	Received since.	Total to be Disposed of.	DISPOSITION.						Now pending.
				Complied on Notice.	Unfounded.	Penalties Collected.	Penalties Remitted.	Prosecution Recommended.	Total.	
Selling kerosene oil below test .....	..	2	2	..	..	1	..	1	2	..
Selling kerosene oil without license .....	..	130	130	..	2	..	..	128	130	..
Chimney fires	16	207	223	..	..	61	142	..	203	20
Hoistways found open after conclusion of business ...	4	11	15	..	..	2	7	6	15	..
Fire hydrants obstructed	1	14	15	11	4	..	..	..	15	..
Lights unprotected	9	..	9	1	..	..	..	..	1	8
Want of fire-extinguishing appliances	5	..	5	..	..	..	..	..	..	5
Combustible material in excessive quantity	4	35	39	15	16	..	..	..	31	8
Kerosene or naphtha, etc., in excessive quantity	3	15	18	10	5	..	..	1	16	2
Fireworks, chemicals, matches, etc., kept without permit .....	..	21	21	1	6	..	..	13	20	1
Powder, etc., improperly stored, transported, etc .....	..	4	4	2	2	..	..	..	4	..
Chimneys, flues, heating apparatus, etc., unsafe	71	29	100	16	11	..	..	..	27	73
Ashes in wooden boxes, etc. ....	..	5	5	2	1	..	..	..	3	2
Hay, straw, cotton, rags, and other vegetable fibre stored in excessive quantity .....	..	1	1	1	..	..	..	..	1	..
Total	113	474	587	59	47	64	149	149	468	119

Special surveys made to determine the fitness of premises for the storage of combustibles or explosive materials. 888
 Samples of kerosene oil collected and tested. 6,788
 Special surveys under the new regulations for storage of wholesale fireworks 13

Money Received for Licenses and Permits Issued, Penalties Collected, Sale of Explosives, etc., Seized, etc.

For 3,951 kerosene oil licenses issued, at \$10	\$39,510 00
For 78 powder licenses issued, at \$2	156 00
For 604 special permits issued, at \$2	1,208 00
For 14 wholesale fire works permits issued, at \$20	280 00
For 120 retail fireworks permits issued, at \$5	600 00
For 87 kindling fire in street permits issued, at 50 cents	43 50

Total for licenses and permits

For 1 penalty for selling kerosene oil below test, at \$50	\$50
For 61 penalties for chimney fires, at \$5	305 00
For 2 hoistways left open, at \$50	100 00

Total for penalties

Total received and turned over to the Relief Fund

The following regulations governing the storage and sale of fireworks and other explosive compounds in the City of New York, were established by the Board of Fire Commissioners, pursuant to section 456, chapter 410, Laws of 1882:

FIRST—SALES AT RETAIL.

Permits for the sale at retail of fireworks, consisting of Chinese crackers, rockets, blue lights, candles, colored pots, lance-wheels and other works of brilliant colored fires, between the 10th day of June and the 10th day of July, in each year, will be issued under the following regulations:

1st. Applications for permits must be made, in writing, to the Inspector of Combustibles prior to the 20th day of May, in each year. Such applications must give the name of the person or persons by whom the permit is desired; the location of the premises at which the goods are to be kept and sold; the nature of the business in which such person or persons are engaged at said premises, and the quantity and description of fireworks intended to be kept and offered for sale.

2d. No permit will be issued for such sales to be made at any building or premises where either of the following kinds of business is conducted or carried on: Where cigars or tobacco are kept for sale, where paints, oils or varnish are manufactured or kept, either for use or for sale, where dry goods of any kind, toys (unless the toys are entirely removed from the premises during the period for which the permit is granted), or other light material of a combustible nature are kept for sale; any carpenter shop, any drug store, any building a license for the sale at which of kerosene or other product of petroleum has been issued, or any building in which gunpowder, blasting powder, gun-cotton, nitro-glycerine, dynamite, petroleum or any of its products, coal oil, camphene, burning fluid or other products or compounds containing any of said substances, matches or cartridges (unless such cartridges are kept in a fire-proof safe or vault), tar, pitch, resin or turpentine, hay, cotton or hemp are manufactured, stored or kept on sale. Nor will any permit be issued for such sales in any frame or wooden building.

3d. No such permit will be issued for any building in which any person other than the applicant or his family resides.

4th. No permit will be issued for such sales to be made within that portion of the city bounded as follows, viz.: By Chambers street to West Broadway, by West Broadway, South Fifth avenue and Fifth avenue to Fourteenth street, by Fourteenth street to Sixth avenue, by Sixth avenue to Twenty-third street, by Twenty-third street to Fourth avenue, by Fourth avenue, Astor place and Lafayette place, to Great Jones street: thence by a line running through the block to the corner of Bleecker and Crosby streets; thence by Crosby street to Howard street, by Howard street to Elm street, by Elm street to Reade street, and thence by a line running through the block to Chambers street.

5th. Not more than one permit will be granted for such sales to be made at premises located on any one square block. Where two or more applications are presented for one block, preference will be given to the one which, in the opinion of the Department, is least objectionable.

6th. All premises for which such permits are issued must be lighted with gas or electricity, and all lights must be protected with glass or wire coverings or globes.

7th. The person or persons to whom such permit is issued must sign an agreement not to permit smoking, or the making or keeping of any fire, nor the use of any substance for illuminating purposes except gas and electricity, upon or about the premises where such sales are licensed, nor to expose any of said fireworks for sale outside the walls of said building, nor in any door or window, and that any violation of such agreement shall operate as a forfeiture of said license.

8th. The entire amount of said fireworks that may be kept on hand in any building, pursuant to any permit issued, shall not be in excess of the aggregate market value of five hundred dollars.

9th. Any violation of any of these regulations shall involve a forfeiture of the license issued thereunder, and subject the party guilty of such violation to the penalty provided by law for selling said articles without license.

10th. The fee for retail licenses hereby provided shall be the sum of five dollars for each license.

SECOND—STORAGE AND SALE AT WHOLESALE.

Permits for the storage and sale at wholesale of fireworks, consisting of Chinese crackers, rockets, blue lights, candles, colored pots, lance-wheels, and other works of brilliant colored fires, detonating works, and powder train, within the City of New York, will be issued as follows:

1st. Application must be made in writing to the Inspector of Combustibles, in the form required for retail permits.

2d. No permit will be issued for such storage or sales at wholesale for that portion of the city lying south of or below Fifty-ninth street, East and West, but permits for the storage and sale in original, unbroken packages, may be issued to dealers in the section of the city bounded by Broadway, Murray, Church and Cortlandt streets, and at the following additional locations: No. 74 Broad street, No. 124 Pearl street, No. 190 Front street, No. 205 Front street, and Nos. 536 and 540 Water street.

3d. Above Fifty-ninth street such storage and sales will be permitted either in fire-proof buildings, constructed in the manner required by section 492 of the Consolidation Act as amended by section 20, chapter 566, Laws of 1887, or in brick or stone buildings not more than 25 feet in width, 75 feet in depth and 50 feet in height, and separated from any other building on the sides and rear by a clear open space of not less than 25 feet.

4th. No permit will be issued for the storage or sale at wholesale of any of said articles in any building in which the sale of fireworks at retail would not be authorized, under the rules governing the granting of permits for retail sales. Nor will the storage or sale at wholesale of any of said articles be permitted in any building any part of which is used for dwelling or sleeping purposes.

5th. Smoking must not be permitted in any building for which such permit has been issued. A competent person in uniform (the uniform to be agreed upon by the Chief of Department, Inspector of Combustibles and representatives of the fireworks dealers) must be kept in front of every such building during the whole of business hours, from June 10 to July 10 of each year, whose duty it shall be to prevent persons from entering said premises with lighted cigars, and to take such other precautions as may be necessary to insure the public safety.

6th. Any permit issued pursuant to the foregoing regulations may be revoked by the Board of Fire Commissioners at any time when, in their opinion, the public interests so require. All permits in force at the date of adoption of these regulations are hereby revoked.

7th. Nothing in these regulations contained shall be deemed to authorize the storage and sale of tableau or colored fires containing sulphur or sulphate in any form.

8th. An annual fee of twenty dollars will be charged for each permit issued hereunder.

BUREAU OF INSPECTION OF BUILDINGS.

Plans and Specifications for New Buildings Filed and Acted upon.

CLASSIFICATION.	Pending last Report.	Received since.	Total.	Approved.	Amended and Approved.	Disapproved.	Now pending.	Total.	ESTIMATED COST.
Dwelling-houses—Estimated cost over \$50,000.	..	2	2	..	1	1	..	2	\$140,000 00
Dwelling-houses—Estimated cost between \$20,000 and \$50,000.	2	87	89	46	38	5	..	89	2,221,500 00
Dwelling-houses—Estimated cost less than \$20,000.	..	470	470	144	293	32	1	470	4,703,700 00
Flats—Estimated cost over \$15,000.	2	1,074	1,076	185	774	113	4	1,076	22,716,600 00
Tenement-houses—Estimated cost less than \$15,000.	..	195	195	31	133	29	2	195	2,429,100 00
Hotels and boarding-houses.	..	2	2	1	1	..	..	2	26,000 00
Stores—Estimated cost over \$30,000.	..	25	25	3	18	4	..	25	1,744,000 00
Stores—Estimated cost between \$15,000 and \$30,000.	..	35	35	8	23	4	..	35	697,000 00
Stores—Estimated cost less than \$15,000.	..	86	86	21	61	4	..	86	440,948 00
Office buildings.	..	28	28	8	12	7	1	28	3,184,800 00
Manufactories and workshops.	..	149	149	32	91	26	..	149	3,272,436 00
School-houses.	..	8	8	2	3	2	1	8	740,000 00
Churches.	..	13	13	5	6	2	..	13	458,300 00
Public buildings—Municipal.	..	18	18	3	12	3	..	18	1,105,802 00
Public buildings—Places of amusement, etc.	..	10	10	4	4	1	1	10	736,000 00
Stables.	..	79	79	24	48	6	1	79	735,425 00
Frame dwellings in Twenty-third and Twenty-fourth Wards.	..	534	534	274	213	47	..	534	1,461,655 00
Other frame structures.	..	266	266	149	85	32	..	266	470,879 00
Totals.	4	3,081	3,085	940	1,816	318	11	3,085	\$47,289,145 00

Plans and Specifications for Alterations to Buildings Filed and Acted upon.

CLASSIFICATION.	Pending last Report.	Received since.	Total.	Approved.	Amended and Approved.	Disapproved.	Now pending.	Total.	ESTIMATED COST.
Dwelling-houses.	4	661	665	314	280	69	2	665	\$1,243,382 00
Flats.	..	142	142	64	61	16	1	142	594,110 00
Tenement-houses.	1	411	412	231	149	29	3	412	504,398 00
Hotels and boarding-houses.	..	60	60	26	22	10	2	60	354,905 00
Stores.	1	205	206	109	82	15	..	206	596,761 00
Office buildings.	1	100	101	38	49	14	..	101	1,719,632 00
Manufactories and workshops.	4	249	253	100	112	38	3	253	849,658 00
School-houses.	..	22	22	13	7	2	..	22	126,126 00
Churches.	..	17	17	6	11	..	..	17	95,800 00
Public buildings.	..	90	90	35	37	18	..	90	791,843 00
Stables.	..	70	70	31	30	9	..	70	198,870 00
Frame buildings.	1	448	449	281	118	50	..	449	320,475 00
Totals.	12	2,475	2,487	1,248	958	270	11	2,487	\$7,395,960 00

Number of applications for permits for new buildings and alterations, 3,994.

Complaints Received and Investigated.

NATURE.	Pending last Report.	Received since.	Total.	Unfounded.	Remedied on Verbal Notice.	Notices to be Issued.	Total.	Now pending.
Defective flues.	8	46	54	33	10	9	52	2
Defective construction and materials.	2	35	37	25	..	7	32	5
Defective leaders.	8	349	357	111	43	111	265	92
Electric current cannot be cut off from outside of building.	..	22	22	..	..	22	22	..
Erecting and altering without permit.	..	100	100	54	1	38	93	7
Frame structures erected and removed without permit.	11	190	201	102	4	83	189	12
Front iron shutters which cannot be opened from the outside.	..	7	7	..	..	4	4	3
Hoistway openings not guarded.	1	5	6	3	1	2	6	..
Insufficient means of escape, fire escapes out of repair, etc.	882	1,065	1,947	663	204	860	1,727	220
No iron shutters.	2	12	14	2	..	9	11	3
Stairway openings floored over.	1	20	21	5	2	12	19	2
Steam-pipes too near woodwork.	1	1	2	1	..	1	2	..
Unsafe buildings.	50	973	1,023	500	63	441	1,004	19
Unsafe freight elevators.	..	6	6	6	..	..	6	..
Totals.	966	2,831	3,797	1,505	228	1,599	3,432	365

Inspection of Passenger Elevators.

Number inspected.	2,576
Found to be in good order and fit for use.	2,359
Found not in compliance with the law.	217

Disposition of Passenger Elevator Cases Found Not in Compliance with Law.

NATURE.	Pending last Report.	Received since.	Total.	Law complied with.	Now pending.	Forwarded for Prosecution.
Defective cylinders.	..	13	13	13	..	..
Defective car-bottoms.	1	..	1	1	..	..
Defective guide-rails posts.	2	..	2	2	..	2
Defective running gear.	1	2	3	2	1	1
Doors and door locks out of repair.	..	1	1	1	..	..
Fronts of cars unprotected.	27	156	183	181	2	45
Generally unsafe.	1	1	2	2	..	..
New ropes required.	5	31	36	35	1	4
Run by persons under 18 years of age.	..	10	10	10	..	..
Run by incompetent persons.	..	3	3	3	..	..
Totals.	37	217	254	250	4	52

Violations of Law and Unsafe Buildings.

NATURE.	Pending last Report.	Received since.	Total for Disposition.	Removed before Action by Courts.	Removed on Order of Courts.	Dismissed by Courts.	Discontinued.	Total Final Disposition.	Now pending.	Forwarded for Prosecution.
Defective construction, materials, etc.	97	770	867	630	..	2	37	669	198	628
Erecting, altering or removing without permit, or after disapproval.	214	790	1,004	726	4	16	31	777	227	673
Insufficient means of escape, fire-escapes, aisles obstructed, etc.	387	3,174	3,561	2,316	1	2	316	2,635	926	1,377
Unsafe buildings.	364	1,233	1,597	1,117	15	..	76	1,208	389	85
Totals.	1,062	5,967	7,029	4,789	20	20	460	5,289	1,740	2,763

Notices Issued.

To place fire-escapes on buildings.	4,063
To remove violations of law.	2,024
To repair passenger elevators.	270
To remove unsafe buildings.	2,055
Of disapproval of plans.	306
Total.	8,718

Proceedings of Board of Examiners.

Number of meetings held.	52
Number of cases acted upon.	372
Number of applicants for appointment as inspectors examined.	25
Found qualified.	10
Not qualified.	15

Petitions for Modification of the Law.

	APPROVED.	DISAPPROVED.	TOTAL.
New buildings.	156	31	187
Alterations.	159	13	172
Iron shutters.	8	5	13

New buildings commenced.	2,691
New buildings completed.	3,245
Alterations commenced.	1,936
Alterations completed.	2,171

Location of Buildings Commenced and Completed.

	COMMENCED.	COMPLETED.	IN PROGRESS.
South of Chambers street.	28	30	17
Between Chambers and Houston streets.	179	215	89
Between Houston and Twenty-third streets.	136	157	74
Between Twenty-third and Fifty-ninth streets.	254	274	138
Between Fifty-ninth and One Hundred and Tenth streets, east of Eighth avenue.	351	474	208
Between Fifty-ninth and One Hundred and Tenth streets, west of Eighth avenue.	362	539	514
Between One Hundred and Tenth street and Harlem river, east of Eighth avenue.	441	676	403
Between One Hundred and Tenth street and Harlem river, west of Eighth avenue.	141	109	136
North of Harlem river, south of One Hundred and Seventy-seventh street.	533	541	403
North of Harlem river, north of One Hundred and Seventy-seventh street.	266	230	112
Totals, 1888.	2,691	3,245	2,184
Totals, 1887.	3,687	3,702	..
Totals, 1886.	3,750	3,258	..

ATTORNEY TO THE DEPARTMENT.

Violations of Law Relating to Combustibles, etc.

NATURE OF VIOLATIONS.	FOR DISPOSITION.			DISPOSED OF.							Now pending.
	Pending last Report.	Received since.	Total.	BEFORE COMMENCEMENT OF LITIGATION.		AFTER COMMENCEMENT OF LITIGATION.					
				Recalled—Violations Removed.	Recalled for other Reasons.	Violations Removed before Trial.	Judgment for Department.	Penalty Paid and Discontinued.	Dismissed.	Total.	
Selling kerosene oil below test	1	1	1	1	1	1	1	1	1	1	1
Selling kerosene oil without license.....	2	128	130	1	93	22	6	1	9	130	1
Combustible material in excessive quantity...	1	1	1	1	1	1	1	1	1	1	1
Hoistways found open after conclusion of business	1	6	6	1	1	1	1	1	5	5	1
Fireworks, chemicals, matches, etc., kept without permit.....	5	14	19	1	10	4	1	1	1	15	1
Totals.....	8	149	157	1	103	26	6	1	15	152	1

Violations of Law Relating to Buildings.

NATURE OF VIOLATIONS.	FOR DISPOSITION.			DISPOSED OF.							Now pending.
	Pending last Report.	Received since.	Total.	BEFORE COMMENCEMENT OF LITIGATION.		AFTER COMMENCEMENT OF LITIGATION.					
				Recalled—Violations Removed.	Recalled for other Reasons.	Violations Removed before Trial.	Violations Removed after Judgment.	Dismissed by Court.	Dismissed for Irregularity or Insufficiency of Papers.	Total.	
Defective construction, materials, etc.....	122	628	730	295	16	188	17	2	19	537	19
Erecting, altering or removing without permit or after disapproval.....	159	673	832	288	21	280	38	17	13	657	17
Insufficient means of escape, fire-escapes, aisles obstructed, etc.....	215	1,377	1,592	781	110	201	60	2	61	1,214	34
Unsafe buildings.	37	85	122	1	..	69	18	1	5	94	2
Defective elevators.....	1	52	53	44	..	6	2	..	..	52	
Total's.....	514	2,815	3,329	1,409	177	743	135	22	98	2,584	74

Miscellaneous Business.

NATURE.	PENDING LAST REPORT.	RECEIVED.	TOTAL.	DISPOSED OF.	NOW PENDING.
Opinions required	3	14	17	15	1
Hotel cases—Rope fire-escape.....	104	53	157	73	84
Totals.....	107	67	174	88	85

Received for Violation Combustible Laws.

Selling kerosene oil below test, \$50; paid to the Treasurer of the Relief Fund of the Fire Department, as required by law.

For Violation Building Laws.

Fire-escape case No. 641 of 1886, judgment	\$50 00
Fire-escape case No. 2097 of 1886, judgment.....	59 50
Fire-escape case No. 822 of 1887, judgment.....	50 00
Fire-escape case No. 823 of 1887, judgment.....	50 00
Violation case No. 568 of 1887, judgment.....	50 00
Violation case No. 209 of 1887, judgment.....	100 00
Violation case No. 821 of 1887, judgment.....	100 00
Fire-escape cases Nos. 414, 427, and 491, of 1887, costs.....	30 00
Violation case No. 234 of 1887, judgment.....	100 00
Violation case No. 23 of 1888, judgment.....	100 00
Violation case No. 949 of 1887, judgment.....	50 00
Unsafe case No. 195 of 1886, survey fee.....	25 00
Violation case No. 610 of 1886, judgment.....	100 00
Fire-escape case No. 264 of 1885, judgment.....	59 50
Violation case No. 472 of 1880, judgment.....	117 84
Fire-escape case No. 2892 of 1885, costs.....	5 00
Fire-escape case No. 2080 of 1886, costs	5 00
Fire-escape case No. 736 of 1888, costs	10 00
Unsafe case No. 177 of 1888, survey fee	25 00
Unsafe case No. 812 of 1887, survey fee	25 00
Unsafe case No. 595 of 1887, survey fee	25 00
Unsafe cases Nos. 462 and 463 of 1888, survey fee.....	50 00
	\$1,186 84
Paid to the Comptroller, as required by law.....	1,051 84
Balance on hand	\$135 00

Cases Against the Department.

NAME OF PLAINTIFF.	Pending Last Report.	Received.	NATURE OF ACTION.	DISPOSED OF.	Now Pending.
The People ex rel. William Dodge.....	1	..	Certiorari to review removal	Discontinued .....	..
The People ex rel. Timothy Sullivan, No. 1	1	..	Certiorari to review removal .....	..	1
The People ex rel. Timothy Sullivan, No. 3.....	1	..	Certiorari to review removal .....	..	1
The People ex rel. Peter H. Short.....	1	..	Certiorari to review removal .....	..	1
The People ex rel. Francis J. Reilly	1	..	Certiorari to review removal .....	..	1
The People ex rel. John Davis.....	..	1	Certiorari to review removal.....	..	1
The People ex rel. William J. O'Connor.....	..	1	Certiorari to review removal.....	..	1
The People ex rel. Jos. Keegan.....	..	1	Certiorari to review removal.....	..	1
The People ex rel. P. M. Smith.....	..	1	Application for mandamus.....	Denied .....	..
The People ex rel. George Kemp.....	..	1	Application for mandamus.....	Granted.....	..
Thomas O'Connor.....	1	..	Damages for personal injuries.....	..	1
Mary E. Pinckney, administratrix.....	1	..	Damages for personal injuries.....	..	1
James O'Brien	1	..	Damages for personal injuries.....	..	1
Josephine Donnelly, an infant	1	..	Damages for personal injuries.....	..	1
Thomas Heaney vs. John J. Cooney.....	..	1	Damages for personal injuries.....	Discontinued .....	..
James Flynn vs. John J. Cooney.....	..	1	Damages for personal injuries.....	Discontinued .....	..
John Davis.....	..	1	Claim for damages.....	Discontinued .....	..
Edward G. Dumahaut vs. John R. Shields	1	..	Claim for salary	Discontinued .....	..
	10	8		7	11

FIRE-ALARM TELEGRAPH.

In a preceding part of this report reference is made to the effects of the great storm of March 12 and 13 upon the fire-alarm telegraph system. The damage was caused principally by the poles and wires of other telegraph systems breaking and falling upon the fire-alarm circuits, only thirty-one of the six thousand telegraph poles belonging to the Department being broken. But interferences with the lines continued for several weeks while the lines of the various telegraph companies and others were undergoing reconstruction. As a matter of course, the underground circuits, extending from the headquarters building for certain distances, were nowise affected by the storm, and this demonstrates the imperative necessity of placing all the fire-alarm wires underground with the least possible delay. In the year 1886 the Fire Commissioners applied for an appropriation of \$100,000 for that purpose, but no allowance was made, and though the same amount was asked for in 1887, only \$50,000 was appropriated. It was originally estimated that \$300,000 would be required for the entire work, so that the appropriation made will suffice for only one-sixth. The work of placing the circuits of the Department underground was commenced under a contract for providing wires encased in lead cables, and laying them in the subways provided under the law by the construction company. This contract, when completed, will furnish underground connection with Headquarters by way of Lexington avenue, Fifty-eighth street, Eighth avenue to Forty-fifth street; also from Fifty-eighth street by way of Sixth avenue, Fourth street, South Fifth avenue, West Broadway, College place, Barclay street, New Church street, Exchange alley, Exchange place, Broadway and Whitehall street to Stone street; also from Fifty-eighth street by way of Broadway, Maiden Lane, Pearl street and Stone street to Whitehall street.

The aggregate length of conductors in these conduits will be over two hundred miles, connecting with the apparatus houses and other buildings below enumerated, and also with eighty fire-alarm signal-boxes, which latter will all be on combination lamps and box posts, and have keyless doors:

Chief of Department's Night Quarters and Apparatus House, 155 and 157 Mercer street.

Repair Shops, 130 and 132 West Third street.

Police Headquarters, 300 Mulberry street.

News Bureau, opposite 300 Mulberry street.

Engine Company No. 6—100 Cedar street.

" " 10—8 Stone street.

" " 13—99 Wooster street.

" " 14—14 East Eighteenth street.

" " 18—132 West Tenth street.

" " 23—235 West Fifty-eighth street.

" " 29—193 Fulton street.

" " 30—253 Spring street.

" " 54—304 West Forty-seventh street.

Hook and Ladder Company No. 4—788 Eighth avenue.

" " 8—7 North Moore street.

" " 10—191 Fulton street.

The branch conduits between the main subways and alarm signal station posts and buildings are provided at the expense of the Department.

The work under the contract has been somewhat delayed, owing to the delay in completing the subways and to unfavorable weather, but it is now believed that the entire work will be finished during the next sixty days.

To connect all the fire-alarm signal stations and buildings of the Department underground, it will undoubtedly become necessary for the Department to construct the necessary ducts where general subways will not be provided.

The necessity for a complete fire-alarm underground service is made more apparent every day, and no efforts will be spared, on the part of the Department, to bring about that desirable result as early as possible. With that view work will be commenced under the appropriation allowed for that purpose for the year 1889, amounting to \$50,000 (\$100,000 was asked for), as soon as the new routes over which subways are to be constructed, are defined.

The underground cables which are now and have been in use since 1884 continue to give good satisfaction; trifling damages, caused by carelessness of steam and gas pipe workmen, causing temporary interferences only.

The present underground lines consist of the following:

1st. Three hundred and forty-two thousand three hundred and fifty-four (342,354) feet, or nearly sixty-five (65) miles of conductors radiating from the Central Telegraph Office in the Headquarters building, laid in an aggregate length of six thousand five hundred and seventy-nine (6,579) feet, or nearly one and a quarter (1 1/4) miles of conduits. Of this quantity of conductors two hundred and fifty thousand (250,000) feet was purchased by the Department, the remainder having been furnished by the contractors, without obligation on the part of the Department, as a reserve in case of accident, and for purchase under future requirements, a portion of which has already been found necessary, and its purchase is recommended.

2d. One hundred and thirty-nine thousand three hundred and fifty-four (139,354) feet, or nearly twenty-six and one-half (26 1/2) miles, of conductors radiating from the former Headquarters in Mercer street, were laid in 1885, and have since formed a part of the system. These conductors have not yet been purchased by the Department.

As in 1887, the labor expended during the past year in maintaining the system in an efficient condition has, because of the various interferences of the numerous electric light and other wires with the overhead circuits of the Department, been very great. Sixteen (16) street alarm-boxes, two (2) telephones, four (4) apparatus house instruments, and one (1) each relay and testing instrument were damaged by electric light current contacts.

Six (6) street alarm-box doors (all of the old locked pattern) were broken into by persons unable to open them to transmit alarms, and three (3) locked boxes were maliciously broken open.

The following is a summary of the work of construction, reconstruction and repairing of overhead lines accomplished during the year:

115 miles of new wire, nearly all of the covered kind.

97 miles of old wire was taken down, nearly all of which was condemned as unfit for further use.

147 poles were set.

211 poles were reset.

187 poles were taken down, of which 152 were condemned.

627 box poles and 45 combination lamp and box posts were painted.

10 combination lamp and box posts were put up, and

10 old boxes, with new keyless doors, were placed thereon.

4 locked boxes were added.

The overhead lines consist of 1,118 miles of wire and 6,640 poles.

The various kinds of alarm-boxes in use, with the number of each, are as follows:

Street alarm-boxes, with locked door.....	564
Street alarm-boxes, with keyless door, of which 42 are upon combination lamp and box posts.....	126
Alarm-boxes in city institutions, etc.....	26
Alarm-boxes in public schools.....	131

Total alarm-boxes in public service.....	847
Special alarm-boxes in places of amusement, etc.....	174
Duplicate alarm-boxes in places of amusement, etc.....	48
	222

Alarm-boxes of all kinds..... 1,069

Attention has been called to the necessity for a general overhauling and renewal of parts of the mechanism of the alarm-boxes and apparatus house electrical instruments, the greater part of which has been in continuous use for about twenty years, and has become considerably worn and otherwise deteriorated.

This old mechanism does not come up to the standard of the modern instruments, but for want of sufficient appropriation it has been impossible to do more than provide for absolutely necessary repairs. With these necessities provided for, and the advantages which may reasonably be expected to result from the underground service, the fire-alarm system of this city would be second to no other.

At present it may be safely said, as the facts heretofore stated show, that nowhere in this country, or so far as is known elsewhere, are the conditions so unfavorable to the proper maintenance of an electrical system composed mainly of overhead circuits, as in this city. Nor are such lawless practices and such defective and dangerous construction as various electrical companies in this city make use of, tolerated elsewhere.

Alarms and calls have been received and transmitted as follows:

First alarms from street boxes.....	1,822
Second alarms.....	121
Third alarms.....	55
Alarms from special building boxes.....	30
Alarms from Police Department.....	5
Alarms from combination circuits.....	1
Alarms, verbal.....	4
Alarms from Automatic Signal Company.....	53
Alarms from Thermostatic Signal Company.....	3
Alarms from American District Messenger Company.....	12
Special calls for companies.....	218
Special calls for police.....	2
Special calls for water tower.....	4
Special calls for increase of water pressure.....	108
Special calls, simultaneous.....	3
Special calls for Insurance Patrols.....	109
Special calls for ambulances.....	332
Special calls for Police boat.....	1
Special calls for Charities and Correction steamer.....	1
Notices of verbal alarms received by companies.....	1,118

Total alarms and calls..... 4,002

Number of Fire Alarm Keys in Use.

By the Uniformed Force.....	1,028
By others in the Department.....	11
By the Police Department.....	3,500
By the Fire Insurance Patrol.....	147
By the District Telegraph Companies.....	26
By householders.....	2,209
By citizens.....	3,082
By the Holmes Electric Protective Company.....	63
By the Public Schools.....	133

Total..... 10,289

SANITARY STATISTICS OF THE UNIFORMED FORCE.

Cases of Disability.

CAUSED BY—	NUMBER.	DAYS LOST.
Injuries.....	238	7,036
Disease.....	592	9,762
Total.....	830	16,798

Examination of candidates for appointment to the Uniformed Force—

Number found qualified.....	102
Number found disqualified.....	71
Total.....	173

Deaths in the Uniformed Force.

NAME.	GRADE.	COMPANY.	DATE OF APPOINTMENT.	DATE OF DEATH.	CAUSE.
Charles M. Moore.....	Fireman, 1st grade...	Engine 45....	Nov. 17, 1865	Jan. 12	Paralysis.
Thomas Walker.....	Engineer of Steamer...	" 55....	Dec. 1, 1877	" 14	Inflammation of bowels.
Joseph Weidman.....	Fireman, 1st grade...	" 3....	Oct. 1, 1868	Feb. 5	Consumption.
Robert Williams.....	Foreman.....	" 48....	Dec. 1, 1865	March 4	Gun-shot wound.
Thomas C. Lee.....	Fireman, 1st grade...	H. & L. 19....	Oct. 20, 1865	" 12	Apoplexy.
Michael J. Flynn.....	" 1st grade...	Engine 16....	Aug. 4, 1884	April 29	Consumption.
James Meehan.....	" 1st grade...	" 49....	Oct. 27, 1865	May 1	"
Joseph F. Manning.....	" 1st grade...	" 52....	Nov. 5, 1881	" 7	"
Michael J. Nolan.....	" 1st grade...	H. & L. 13....	July 21, 1871	" 23	Erysipelas.
James A. Dougan.....	" 1st grade...	Engine 1....	Oct. 15, 1873	Oct. 21	Pneumonia.

Deaths among those Retired from all Service.

NAME.	GRADE.	COMPANY.	DATE OF APPOINTMENT.	DATE OF RETIREMENT.	CAUSE.	DATE OF DEATH.	CAUSE.
Edward W. Wilhelm.....	{ Chief of Bat- talion..... }	.....	1866. July 27	1884. Aug. 12	Vertigo.....	June 22	Apoplexy.
William W. Rhodes.....	{ Chief of Bat- talion..... }	.....	1865. Sept. 6	1881. Nov. 1	Paralysis.....	Sept. 25	{ Nervous pros- tration.
John F. Beechinor.....	Fireman, 1st gr.	Engine 29....	1870. Dec. 1	1877. Nov. 1	Epilepsy.....	Oct. 10	.....
Albert Stilwell.....	{ Engineer of Steamer.. }	" 5....	1871. Dec. 22	1885. Sept. 3	Rheumatism	Nov. 1	Paralysis.
Patrick J. McEntee.....	Fireman, 1st gr.	H. & L. 1....	1873. Jan. 3	1884. Feb. 11	"	" 8	Pneumonia.
Joseph Saunders.....	" 1st gr.	Engine 4....	1873. July 15	1883. July 1	"	Dec. 6	Heart disease.

Death among those Relieved from Service at Fires.

NAME.	GRADE.	COMPANY.	DATE OF APPOINTMENT.	WHEN RELIEVED.	CAUSE.	DATE OF DEATH.	CAUSE.
William J. Kerneghan....	Engineer of Steamer	Engine 50....	1878. Jan. 9	1888. May 17	Phthisis..	July 31	Phthisis.

Relieved from Service at Fires During the Year.

NAME.	GRADE.	COMPANY.	DATE OF APPOINTMENT.	DATE WHEN RELIEVED.	CAUSE.
Oscar Pesoa.....	Assistant Foreman.....	Engine 4.....	Sept. 14, 1865	May 16	Rheumatism.
Edward Hogan.....	Fireman, 1st grade.....	" 39.....	Dec. 18, 1874	" 16	Paralysis.
Jacob Maug.....	" 1st grade.....	H. and L. 17....	Sept. 9, 1874	" 16	Stiff ankles.
William J. Kerneghan.....	Engineer of Steamer.....	Engine 50.....	Jan. 9, 1878	" 16	Consumption.
Charles Forbach.....	Fireman, 1st grade.....	" 53.....	Mar. 20, 1882	" 16	"
Peter Prunty.....	" 1st grade.....	" 47.....	Aug. 20, 1884	" 16	Stiff ankle.
Thomas Gooderson.....	Chief of Battalion.....	.....	Feb. 1, 1874	June 1	Weak lungs.
Joseph Brandon.....	Fireman, 1st grade.....	Engine 34.....	Dec. 1, 1871	" 13	Tumor of head.
John Dwyer.....	Foreman.....	" 19.....	Oct. 16, 1873	" 27	Rheumatism.
James Daly.....	Fireman, 1st grade.....	" 8.....	" 1, "	" 27	Stiff ankle.
John Hart.....	" 1st grade.....	" 38.....	Jan. 21, 1867	Aug. 9	Rheumatism.
Michael Neubauer.....	Assistant Foreman.....	" 35.....	Oct. 1, 1872	Oct. 10	"
Patrick Burns.....	Engineer of Steamer.....	" 47.....	" 15, 1874	" 10	Near-sighted.
William S. Hughes.....	Fireman, 1st grade.....	" 36.....	Jan. 15, 1873	" 10	Rheumatism.

Apparatus.

The following new apparatus was purchased during the year:

Two new steam fire-engines (see "Description of Steam Fire Engines" in a subsequent part of this report for particulars), two four-wheeled hose tenders, one Hayes' extension hook and ladder truck, one aerial turn-table hook and ladder truck, and one battalion wagon.

The following apparatus having been condemned as unfit for further use as a whole, but of which parts could be utilized in making repairs to other apparatus, were ordered to be broken up:

One second size Amoskeag steam fire-engine, registered No. 132, built in 1865.

One goose-neck hook and ladder truck, built before 1865.

One two-wheeled tender, old pattern, built about 1865.

Repair Shop Work.

The following extensive repairs were made:

Thirty-six to steam fire-engines, one to floating engine, twenty to hose tenders, five to hook and ladder trucks, one to water tower, and three to battalion wagons, two to light wagons, and three to shop wagons.

The following ordinary repairs were made:

One hundred and ninety-six to steam fire-engines, seven to floating engines, sixty-four to hose tenders, seventy-five to hook and ladder trucks, three to water-towers, one hundred and fifty-three to battalion wagons, sixty-one to light wagons, six to telegraph trucks, five to shop wagons, two to sleighs.

Two sets of sliding poles were put up in company quarters.

Two sets of single harness, two sets of double harness, two sets of wagon harness, and a large number of bridles and other parts of harness were made and furnished.

A large amount of miscellaneous repairs to apparatus, hose and harness and painting was also done.

The following articles were furnished to various companies, etc.:

Five jumping nets, six copper cellar pipes, seventeen 35-foot rope ladders, forty-nine 25-foot rope ladders, six sets of scaling ladders, thirty hose rollers, four sub-cellar pipes and nozzles, thirteen Prunty patent controlling nozzles, twenty hydrant connections, thirty-four thousand seven hundred and fifty feet of hose.

Inventory of Apparatus.

	IN SERVICE.	SPARE.	TOTAL.
Marine steam fire-engines (Engine Companies Nos. 43 and 51).....	2	..	2
{ First size.....	7	9	16
{ Second size.....	34	11	45
Steam fire-engines { Third size.....	4	4	8
{ Fourth size.....	15	..	15
{ Fifth size.....	2	..	2
Hose-tenders, four-wheeled.....	36	6	42
Hose-tenders, two wheeled.....	30	13	43
Water-towers.....	2	1	3
{ Roller-frame with extension ladder { 1st size.....	14	4	18
{ 2d size.....	6	1	7
{ Goose-neck without extension ladder.....	2	4	6
Hook and ladder trucks { Roller-frame, without ladders, first size.....	..	1	1
{ Turn-table, first size.....	4	..	4
{ Turn-table, second size.....	1	..	1
Chemical fire-engines.....	..	10	10
Fuel wagons.....	16	1	17
Wrecking truck.....	..	1	1
Chemical fire-extinguishers.....	139	..	139
Hand-engines.....	..	3	3
Hose carriages.....	..	1	1
Hose 'umpers.....	..	14	14
Supply wagon.....	1	..	1
Chief of Battalion wagons.....	12	5	17
Portable water tank.....	..	1	1

Inventory of Hose.

	SIZE.	NUMBER OF FEET.
Combination rubber hose.....	2 inch.	200
" ".....	2½ "	97,636
" " tapering from.....	3½ to 2½ "	963
" ".....	3¼ "	3,584
" ".....	3½ "	58
" ".....	4 "	62
" ".....	6 "	100
Cotton rubber lined hose.....	2½ "	97,901
" ".....	3¼ "	50
" ".....	3½ "	1,010
Cotton hose (not lined).....	2½ "	634
Linen hose.....	2½ "	10
Total.....		202,208

Classified Description of Steam Fire Engines.

Size.	STYLE OF—			SIZE IN INCHES OF—			Weight with Water.	When built or placed in service.	MANUFACTURER'S—		NEW BOILERS, PUMPS, ETC.		ENGINE COMPANY NOW USING.
	Frame.	Boiler.	Engine.	Steam Cylinder.	Stroke of Piston.	Pump.			Name.	Number.	When.	By Whom.	
1	Barrel tank.....	Tubular.....	Double.....	8	12	4 1/4	8,800	Sept., 1865	Amoskeag Manufacturing Co...	142	Sept., 1877	Rebuilt at Repair Shops	Spare.
1	"	Drop tube.....	"	8	12	4 1/4	8,800	Sept., 1865	"	143	Nov., 1883	New boiler, Clapp & Jones Manufacturing Co....	"
1	"	"	"	8	12	4 1/4	8,800	Sept., 1866	"	191	Apr., 1883	"	"
1	"	"	"	8	12	4 1/4	8,800	Sept., 1866	"	192	Nov., 1877	New pumps, Amoskeag Manufacturing Co.....	"
1	"	"	"	8	12	4 1/4	8,800	Sept., 1866	"	193	Mar., 1882	New tubes, Repair Shops.....	"
1	"	"	"	8	12	4 1/4	8,800	Oct., 1866	"	193	June, 1884	New boiler, Clapp & Jones Manufacturing Co....	"
1	"	Tubular.....	"	8	12	4 1/4	8,800	Nov., 1866	"	195	May, 1883	"	"
1	* Straight frame.....	Drop tube.....	"	8 1/2	8	4 3/4	9,600	Oct., 1872	"	284	Feb., 1880	Altered for horses, and new boiler, Clapp & Jones Manufacturing Co.....	"
1	* Crane neck.....	"	"	7 5/8	8	4 1/2	8,000	Sept., 1874	"	494	Feb., 1880	New tubes, Repair Shops.....	"
1	"	"	"	7 5/8	8	4 1/2	7,320	Mar., 1879	"	527	May, 1883	New boiler, Clapp & Jones Manufacturing Co....	"
1	"	Coil.....	"	7 1/4	8	4 1/2	7,575	Sept., 1880	Ahrens Manufacturing Co.....	252	Apr., 1884	Altered, for horses, Clapp & Jones Manuf'g Co....	"
1	"	Drop tube.....	"	8	7	4 7/8	7,450	Oct., 1880	Clapp & Jones Manufacturing Co....	351	Feb., 1881	New boiler, Clapp & Jones Manufacturing Co....	"
1	"	"	"	8	7	5	7,450	Oct., 1880	"	352	Nov., 1880	New coil in boiler, Ahrens Manufacturing Co....	No. 13.
1	"	"	"	8 1/2	7	5	7,890	June, 1882	"	380	Oct., 1880	New tubes in boiler, Clapp & Jones Manuf'g Co....	33.
1	"	"	"	8 1/2	7	5	8,110	July, 1882	"	381	Jan., 1883	New pump, Clapp & Jones Manufacturing Co....	7.
1	"	"	"	8 1/2	7	5	7,890	Aug., 1882	"	383	"	"	14.
1	"	"	"	8 1/2	7	5	7,890	Sept., 1882	"	385	"	"	1.
2	U tank.....	Tubular.....	Single.....	8	12	4 1/4	6,750	Dec., 1860	Amoskeag Manufacturing Co...	19	"	"	19.
2	"	"	"	8	12	4 3/4	6,750	Oct., 1865	"	147	"	"	55.
2	"	"	"	8	12	4 3/4	6,750	Nov., 1865	"	148	Sept., 1877	Rebuilt at Repair Shops	Ward's Island.
2	"	"	"	8	12	4 3/4	6,750	Dec., 1865	"	157	Nov., 1883	New boiler, Amoskeag Manufacturing Co.....	No. 26.
2	"	Nest tube.....	"	8	12	4 3/4	6,520	Dec., 1865	"	158	Apr., 1879	"	Spare.
2	"	Tubular.....	"	8	12	4 3/4	6,750	Jan., 1866	"	159	July, 1878	"	"
2	"	Nest tube.....	"	8	12	4 3/4	6,750	Jan., 1866	"	160	July, 1879	"	"
2	"	Drop tube.....	"	8	12	4 3/4	6,750	Feb., 1866	"	161	Oct., 1888	New boiler, La France Manufacturing Co.....	No. 36.
2	"	"	"	8	12	4 3/4	6,750	Feb., 1866	"	162	Nov., 1879	New boiler, Amoskeag Manufacturing Co.....	Spare.
2	"	"	"	8	12	4 3/4	6,750	Mar., 1866	"	163	Sept., 1879	New boiler, Manchester Locomotive Works....	No. 12.
2	"	Tubular.....	"	8	12	4 3/4	6,750	Apr., 1866	"	164	Nov., 1874	New boiler, Repair Shops.....	Spare.
2	"	Sectional coil tube....	"	8	12	4 3/4	6,750	Apr., 1866	"	165	May, 1884	New boiler, Clapp & Jones Manufacturing Co....	"
2	"	Tubular.....	"	8	12	4 3/4	6,750	Aug., 1866	"	166	July, 1875	New boiler, Repair Shops.....	"
2	Straight frame.....	Sectional coil tube....	Double.....	6 3/8	8	4 1/2	6,700	Mar., 1867	"	226	July, 1885	New boiler, Clapp & Jones Manufacturing Co....	"
2	"	Drop tube.....	"	6 3/8	8	4 1/2	6,700	Mar., 1867	"	227	Sept., 1881	New boiler, Clapp & Jones Manufacturing Co....	"
2	"	"	"	6 3/8	8	4 1/2	6,700	Mar., 1867	"	228	Apr., 1882	New boiler, Clapp & Jones Manufacturing Co....	"
2	"	"	"	6 3/8	8	4 1/2	6,700	Apr., 1867	"	229	July, 1880	New tubes in boiler, Repair Shops.....	"
2	"	"	"	6 3/8	8	4 1/2	6,700	May, 1867	"	230	Sept., 1881	New boiler, Clapp & Jones Manufacturing Co....	"
2	"	"	"	6 3/8	8	4 1/2	6,700	Aug., 1868	"	295	Aug., 1886	New pumps, "	"
2	"	Nest tube.....	"	6 3/8	8	4 1/2	6,700	Sept., 1868	"	296	Mar., 1881	"	"
2	"	Tubular.....	"	6 3/8	8	4 1/2	6,700	Sept., 1868	"	301	Aug., 1879	New boiler, Amoskeag Manufacturing Co.....	"
2	"	Nest tube.....	"	6 3/8	8	4 1/2	6,700	Nov., 1868	"	302	Mar., 1880	New boiler, La France Manufacturing Co.....	"
2	Crane neck.....	"	"	7 1/4	8	4 3/8	8,250	July, 1886	La France Manufacturing Co...	108	Nov., 1876	New boiler, Repair Shops.....	Spare.
2	"	Sectional coil tube....	"	7 1/2	7	4 3/8	7,240	May, 1887	Clapp & Jones Manufacturing Co....	491	Apr., 1879	New boiler, Amoskeag Manufacturing Co.....	No. 34.
2	"	Drop tube.....	"	6 3/8	8	4 3/8	6,800	Feb., 1871	Amoskeag Manufacturing Co....	359	Aug., 1888	New boiler, La France Manufacturing Co.....	"
2	"	"	"	6 3/8	8	4 3/8	6,800	Feb., 1871	"	360	May, 1883	New boiler, Clapp & Jones Manufacturing Co....	"
2	"	"	"	6 3/8	8	4 3/8	6,800	Mar., 1871	"	361	July 1884	"	"
2	"	"	"	6 3/8	8	4 3/8	6,800	Mar., 1871	"	362	"	"	"
2	"	"	"	6 3/8	8	4 3/8	7,385	Mar., 1871	"	363	Sept., 1883	"	"
2	"	Tubular.....	"	6 3/8	8	4 1/2	7,250	June, 1873	"	437	April, 1883	"	"
2	"	Drop tube.....	"	6 3/8	8	4 1/4	6,950	June, 1873	"	438	Aug., 1880	New pumps, new crown sheet, new tubes and sheet in furnace, Manchester Locomotive Works.....	8.
2	"	"	"	6 3/8	8	4 1/4	6,950	July, 1873	"	439	June, 1882	New boiler, Clapp & Jones Manufacturing Co....	54.
2	"	"	"	6 3/8	8	4 1/4	6,950	Sept., 1873	"	440	July, 1883	"	"
2	"	"	"	6 3/8	8	4 1/4	6,950	Sept., 1873	"	441	"	"	"
2	"	"	"	6 3/8	8	4 1/4	6,950	Sept., 1873	"	455	June, 1884	"	"
2	"	Tubular.....	"	6 3/4	8	4 1/4	6,800	Nov., 1868	Gould	7	Sept., 1880	New pump, Repair Shop	"
2	"	Coil.....	"	6 3/4	8	4 1/4	6,210	July, 1883	Ahrens Manufacturing Co.....	358	May, 1882	New boiler, Clapp & Jones Manufacturing Co....	16.
2	"	"	"	6 3/4	8	4 1/4	6,210	July, 1883	"	360	July, 1884	New boiler, Clapp & Jones Manufacturing Co....	"
2	"	Drop tube.....	"	7 1/2	7	4 3/8	6,550	July, 1883	Clapp & Jones Manufacturing Co....	413	Dec., 1880	New boiler, Repair Shops.....	Ward's Island.
2	"	"	"	7 1/2	7	4 3/8	6,485	Aug., 1883	"	415	Mar., 1888	New coil in boiler, Ahrens Manufacturing Co....	No. 13.
2	"	"	Rotary.....	9	"	"	6,400	July, 1884	Silsby Manufacturing Co.....	780	"	"	"
2	"	"	Double.....	7 1/2	7	4 5/8	6,885	July, 1885	Clapp & Jones Manufacturing Co....	463	"	"	"
2	"	Sectional coil tube....	"	7 1/2	7	4 7/8	6,740	Aug., 1886	"	473	"	"	"
2	"	Nest tube.....	"	7 3/4	8	4 1/2	8,230	Aug., 1888	La France Manufacturing Co...	146	"	"	"
2	"	"	"	7 3/4	8	4 1/2	8,675	Aug., 1888	"	147	"	"	"
3	Harp tank.....	Drop tube.....	Single.....	7 3/4	9 1/2	4 1/4	5,550	May, 1861	Amoskeag Manufacturing Co...	36	Oct., 1879	New boiler, Clapp & Jones Manufacturing Co....	Spare.
3	"	"	"	7 3/4	9	4 3/8	5,700	Dec., 1876	"	516	"	"	"
3	"	Tubular.....	"	7 3/4	9	4 3/8	5,700	Feb., 1877	"	517	April, 1884	"	"
3	"	Nest tube.....	"	7 3/4	9	4 3/8	5,700	Feb., 1877	"	519	"	"	No. 37.
3	"	"	"	7 3/4	9	4 3/8	5,700	Feb., 1877	"	520	July, 1888	New boiler, La France Manufacturing Co.....	38.
3	Straight frame.....	Coil.....	"	8	7	5	4,665	July, 1883	Ahrens Manufacturing Co.....	354	June, 1882	New tubes in boiler, Clapp & Jones Mfg. Co....	Spare.
3	"	"	"	8	7	5	4,665	July, 1883	"	356	"	"	No. 45.
3	Horizontal.....	Tubular.....	"	6	10	4 1/2	"	Aug., 1865	Clapp	"	"	"	42.
4	Crane neck.....	Drop tube.....	"	9 1/4	6	5 1/2	5,750	July, 1881	Clapp & Jones Manufacturing Co....	359	Jan., 1867	New boiler, Amoskeag Manufacturing Co.....	Randall's Island.
4	"	"	"	9 1/4	6	5 1/2	5,750	July, 1881	"	362	"	"	No. 10.
4	"	"	"	9 1/4	6	5 1/2	5,750	July, 1881	"	365	"	"	44.
4	"	"	"	9 1/4	6	5 1/2	5,300	Oct., 1881	"	368	"	"	53.
4	"	"	"	9 1/4	6	5 1/2	5,300	Oct., 1881	"	370	"	"	33.
4	"	"	"	9 1/4	6	5 1/2	5,300	Oct., 1881	"	370	"	"	40.

* Formerly self-propellers.

Size.	STYLE OF—			SIZE IN INCHES OF—			Weight with Water.	When built or placed in service.	MANUFACTURER'S—		NEW BOILERS, PUMPS, ETC.		ENGINE COMPANY NOW USING.
	Frame.	Boiler.	Engine.	Steam Cylinder.	Stroke of Piston.	Pump.			Name.	Number.	When.	By Whom.	
4	Crane neck.....	Drop tube.....	Single.....	9¼	6	5½	5,300	Nov., 1881	Clapp & Jones Manufacturing Co.	371	.....	.....	No. 49.
4	".....	".....	".....	9¼	6	5½	5,300	Dec., 1881	"	375	.....	.....	41.
4	".....	".....	".....	9¼	6	5½	5,950	April, 1884	"	430	.....	.....	18.
4	".....	".....	".....	9¼	6	5½	5,950	April, 1884	"	432	.....	.....	22.
4	".....	".....	".....	9¼	6	5½	5,950	May, 1884	"	433	.....	.....	47.
4	".....	".....	".....	9¼	6	5½	5,950	May, 1884	"	434	.....	.....	2.
4	".....	".....	".....	9¼	6	5½	5,950	May, 1884	"	436	.....	.....	26.
4	".....	".....	".....	9¼	6	5½	5,950	June, 1884	"	438	.....	.....	35.
4	Straight frame.....	".....	".....	9¼	6	5½	4,750	July, 1883	"	409	.....	.....	48.
4	".....	".....	".....	9¼	6	5½	4,745	Aug., 1883	"	417	.....	.....	46.
5	Crane neck.....	".....	".....	7½	6	4½	4,680	Nov., 1882	"	397	.....	.....	50.
5	".....	".....	".....	7½	6	4½	5,030	Nov., 1884	"	452	.....	.....	52.
1	Marine engine.....	Tubular.....	Double.....	11	12	5	.....	May, 1875	Amoskeag Manufacturing Co., pumps.....	513	May, 1882	New legs in boiler.....	43.
				11	12	5	.....			514	Dec., 1886	Repairs to boiler, hull, etc.	
1	".....	".....	".....	16	9	7½	.....	Apr., 1883	Clapp & Jones Manufacturing Co., pumps.....	405	June, 1886	Extensive repairs to boat, under contract.....	51.
				16	9	7½	.....			406		New legs in boilers, new fresh water tanks, and connections.....	

Description of Hook and Ladder Trucks.

Department Registered No.	Size.	Style.	MANUFACTURER.	LONGEST LADDER.	WHEN BUILT OR PLACED IN SERVICE.	COMPANY NOW USING.
6	1st	Roller frame.	Fire Dep't Repair Shops....	70 feet extension.	Dec., 1869	Hook and Ladder Co. 1.
10	1st	"	"	70	Nov., 1871	" 2.
30	1st	Turn table...	La France Mfg. Co.....	85	1886	" 3.
33	1st	"	Fire Extinguisher Mfg. Co....	92	Sept., 1888	" 4.
7	1st	Roller frame.	Fire Dep't Repair Shops....	65	Jan., 1869	" 5.
14	1st	"	"	65	1873	" 5.
24	1st	"	Fire Extinguisher Mfg. Co....	73	May, 1883	" 6.
11	1st	"	Fire Dep't Repair Shops....	70	" 1872	" 7.
28	1st	"	"	73	" 1884	" 8.
25	1st	"	Fire Extinguisher Mfg. Co....	70	June, 1883	" 9.
8	1st	"	Allerton Mfg. Co.....	70	1870	" 9.
18	1st	"	Fire Dep't Repair Shops....	73	1879	" 10.
19	1st	"	"	65	1881	" 11.
31	1st	Turn-table...	La France Mfg. Co.....	85	June, 1886	" 12.
17	1st	Roller frame.	Fire Dep't Repair Shops....	65	1878	" 13.
34	2d	Turn-table..	La France Mfg. Co.....	75	July, 1888	" 14.
26	1st	Roller frame.	Fire Extinguisher Mfg. Co....	73	" 1883	" 15.
32	1st	Turn-table..	La France Mfg. Co.....	85	" 1887	" 16.
16	2d	Roller frame.	Fire Dep't Repair Shops....	50	Sept., 1877	" 17.
12	1st	"	"	65	1872	" 18.
5	3d	Goose neck..	.....	20 feet.....	Before 1865	" 19.
27	2d	Roller frame.	Fire Extinguisher Mfg. Co....	50 feet extension.	1883	Engine Company 38.
20	2d	"	Fire Dep't Repair Shops....	50	1882	" 47.
21	2d	"	"	35 feet.	April, 1882	" 48.
4	3d	Goose neck..	.....	40 feet.....	Before 1865	" 49.
22	2d	Roller frame.	Fire Dep't Repair Shops....	50 feet extension.	Sept., 1882	" 50.
29	2d	"	Fire Extinguisher Mfg. Co....	50	June, 1885	" 52.
13	1st	"	Fire Dep't Repair Shops....	72	1872	Spare, 4th Battalion.
15	1st	"	"	72	1873	" 10th "
9	1st	"	Allerton Mfg. Co.....	70	1870	" 4th "
23	2d	"	Fire Extinguisher Mfg. Co....	50	1882	" H. & L., 13
3	3d	Goose neck..	.....	40 feet.....	Before 1865	" " 9
2	3d	"	.....	40	1865	" Ward's Island.
1	3d	"	.....	30	1865	" Randall's Island.
—	1st	Roller frame.	Babcock Mfg. Co.....	.....	1878	Unserviceable.
35	3d	Goose neck..	.....	40 feet.....	Before 1865	Spare.
36	1st	Roller frame.	.....	.....	.....	.....

HORSES.

December 31, 1887, number of horses on hand.....	337
Purchased since.....	46
Died.....	12
Sold.....	19
	31
December 31, 1888, number on hand.....	352
On Probation.	
December 31, 1887.....	13
Received.....	108
	121
Accepted.....	46
Rejected.....	64
	110
Remaining on probation December 31, 1888.....	11

DEPARTMENT BUILDINGS AND SITES.

New Buildings.

The new quarters for Engine Company No. 54, at No. 304 West Forty-seventh street, were finished and occupied by the company named.

A contract was also made for building new quarters for an engine company in West Eighty-third street, and for Hook and Ladder Company No. 14, at No. 120 East One Hundred and Twenty-fifth street. Both of these buildings were well advanced towards completion at the close of the year.

Alterations and Repairs to Buildings.

Extensive alterations and repairs were made to the following buildings: Engine Companies Nos. 24, 30 and 31, and at No. 155 Mercer street, and Hook and Ladder Company No. 20, and temporary quarters for Hook and Ladder Company No. 14. Ordinary repairs, involving various kinds of mechanical work, were also made to the buildings of the Department, aggregating sixty different jobs of work.

New Sites.

The purchase of the two lots, located respectively on the south side of Eighty-third street, about two hundred feet west of Ninth avenue, and on the south side of One Hundred and Thirtieth street, about sixty feet west of Tenth avenue (referred to in the report for 1887), which was then under consideration by the authorities, was completed early this year.

Buildings and Sites Occupied by or Under Control of the Department.

Headquarters—Office of Commissioners, Bureaus—Chief of Department, Inspector of Combustibles, Fire Marshal and Inspector of Buildings, and offices of Attorney, Fire Alarm Telegraph and Medical Officers, and School of Instruction, Nos. 157 and 159 East Sixty-seventh street, with drill yard in rear, extending to Sixty-eighth street.
 Repair Shops, Nos. 130 and 132 West Third street.
 Hospital Stables, Nos. 133 and 135 West Ninety-ninth street.
 Training Stables, No. 58 Lawrence street.
 Bell-tower and Lookout, Mount Morris Square.
 Bell-tower and Lookout, Fulton avenue, between One Hundred and Sixty-seventh and One Hundred and Sixty-eighth streets, rear of quarters of Engine Company No. 42.
 Lookout, southwest corner of Tenth street and Sixth avenue, Jefferson Market Court-house.
 Engine Company No. 1, No. 165 West Twenty-ninth street.
 " 2, No. 530 West Forty-third street. (Fuel Depot No. 5.)
 " 3, No. 417 West Seventeenth street.
 " 4, No. 39 Liberty street.
 " 5, No. 340 East Fourteenth street.
 " 6, No. 100 Cedar street.
 " 7, No. 22 Chambers street.†
 " 8, No. 165 East Fifty-first street.
 " 9, No. 55 East Broadway.
 " 10, No. 8 Stone street.
 " 11, No. 437 East Houston street.
 " 12, No. 261 William street.
 " 13, No. 99 Wooster street.
 " 14, No. 14 East Eighteenth street.
 " 15, No. 269 Henry street.
 " 16, No. 223 East Twenty-fifth street.
 " 17, No. 91 Ludlow street.
 " 18, No. 132 West Tenth street. (Fuel Depot No. 4.)
 " 19, No. 355 West Twenty-fifth street. (Fuel Depot No. 12.)
 " 20, No. 47 Marion street.
 " 21, No. 216 East Fortieth street.
 " 22, No. 159 East Eighty-fifth street. (Fuel Depot No. 14.)
 " 23, No. 235 West Fifty-eighth street.
 " 24, No. 78 Morton street. (Fuel Depot No. 9.)
 " 25, No. 342 Fifth street.
 " 26, No. 220 West Thirty-seventh street.
 " 27, No. 173 Franklin street.
 " 28, No. 604 East Eleventh street.
 " 29, No. 193 Fulton street.
 " 30, No. 253 Spring street.*
 " 31, No. 116 Leonard street.
 " 32, No. 108 John street.*
 " 33, No. 15 Great Jones street.
 " 34, No. 440 West Thirty-third street.
 " 35, No. 223 East One Hundred and Nineteenth street.
 " 36, No. 2333 Fourth avenue.
 " 37, No. 83 Lawrence street.
 " 38, Tenth avenue, between One Hundred and Fifty-fourth and One Hundred and Fifty-fifth streets.
 " 39, No. 157 East Sixty-seventh street.
 " 40, No. 153 West Sixty-eighth street.
 " 41, No. 501 North Third avenue.‡
 " 42, Fulton avenue, between One Hundred and Sixty-seventh and One Hundred and Sixty-eighth streets.
 " 43, (Floating engine), foot of Clinton street, East river.
 " 44, No. 221 East Seventy-fifth street.
 " 45, North side Tremont avenue, between Southern Boulevard and Vyse street.
 " 46, Morris street, between Madison and Washington avenues.*
 " 47, Tenth avenue, between Ninety-seventh and Ninety-eighth streets.
 " 48, Webster (formerly Thomas) avenue, near Kingsbridge road.
 " 49, Blackwell's Island.
 " 50, One Hundred and Sixty-sixth street, between Washington and Third avenues.
 " 51, (Floating engine), foot of West Thirteenth street.

Engine Company No. 52, Riverdale avenue, near junction of Westchester avenue.
" 53, No. 175 East One Hundred and Fourth street. (Fuel Depot No. 15.)
" 54, No. 304 West Forty-seventh street (temporary quarters, No. 219 West Forty-sixth street.)
" 55, No. 173 Elm street.
Hook and Ladder Company No. 1, No. 26 Chambers street. †
" 2, No. 126 East Fifth street. (Fuel Depot No. 13.)
" 3, No. 108 East Thirteenth street.
" 4, No. 788 Eighth avenue.
" 5, No. 96 Charles street.
" 6, No. 77 Canal street.
" 7, No. 217 East Twenty-eighth street.
" 8, No. 7 North Moore street.
" 9, No. 209 Elizabeth street.
" 10, No. 191 Fulton street.
" 11, No. 742 Fifth street.
" 12, No. 243 West Twentieth street.
" 13, No. 159 East Eighty-seventh street.
" 14, No. 120 East One Hundred and Twenty-fifth street.
" 15, Old Slip, between Water and Front streets.
" 16, No. 159 East Sixty-seventh street.
" 17, One Hundred and Forty-third street, near Third avenue. (Fuel Depot No. 16.)
" 18, No. 84 Attorney street.
" 19, Ogden avenue, between Birch and Union streets. *

Fuel Depot No. 1, No. 5 Duane street.
" 2, No. 160 East Thirty-third street. ||
" 3, No. 106 East Thirteenth street.
" 4 (see Engine Company No. 18).
" 5 (see Engine Company No. 2).
" 6, No. 180 Clinton street.
" 7, No. 28 Beaver street. †
" 8, No. 209 East One Hundred and Twenty-second street.
" 9 (see Engine Company No. 24).
" 10, No. 304 Washington street.
" 11, No. 199 Chrystie street.
" 12 (see Engine Company No. 19).
" 13 (see Hook and Ladder Company No. 2).
" 14 (see Engine Company No. 22).
" 15 (see Engine Company No. 53).
" 16 (see Hook and Ladder Company No. 17).
Store-house, No. 20 Eldridge street.
" No. 180 Clinton street. (Fuel Depot No. 6.)
" No. 199 Chrystie street, also occupied by second section of Hook and Ladder Company No. 9 and Fuel Depot No. 11.
" Division street, near Boston road.
" No. 432 West Thirty-sixth street.

The location marked thus (*) are leased by the department; all others are city property. The locations marked thus (†) are only in part occupied by the department. At the locations marked thus (||) lots in rear or adjacent are leased by the department.

RECEIPTS AND DISBURSEMENTS OF THE RELIEF FUND, 1871-1888.

Receipts.

FROM—	1871. 7 MONTHS	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	TOTALS.
Met. Fire Depart- ment Relief Fund.)	\$7,340 07																		\$7,340 07
Fines.....	646 51	\$621 64	\$843 31	\$734 79	\$972 51	\$567 15	\$489 46	\$568 98	\$568 03	\$1,068 89	\$868 80	\$1,304 55	\$1,966 33	\$1,703 23	\$2,005 84	\$1,765 84	\$2,249 50	\$1,765 80	20,785 16
Donations.....		100 00	1,060 00	374 00		100 00		100 00				100 00		100 00	258 00	580 00	2,115 00	551 00	5,438 00
Penalties.....		170 63	902 34	705 00	2,389 63	1,600 00	1,925 00	1,250 00	350 00	400 00	525 00	325 00	460 00	400 00	550 00	200 00	177 50	200 00	12,530 10
Oil licenses.....	26,230 00	27,523 50	30,399 50	31,827 50	29,454 50	27,285 00	30,103 00	29,750 00	30,300 00	29,760 00	31,180 00	31,270 00	32,720 00	35,270 00	36,550 00	37,100 00	39,500 00	39,510 00	575,738 00
Fireworks permits....	495 00	509 00	537 00	522 75	519 25	645 50	472 25	332 75	355 00	363 50	409 25	440 75	462 75	513 50	583 75	620 50	627 75	880 00	9,290 25
Interest.....	275 55	1,999 86	4,258 91	9,298 22	10,410 44	11,795 22	17,210 91	15,493 90	18,680 49	22,140 20	22,885 58	23,468 10	20,347 85	24,764 43	20,567 30	20,712 94	21,711 99	23,695 21	289,717 10
Foreign insurance tax.		9,942 30	12,072 04	16,136 25	15,281 24	12,878 98	12,112 11	16,630 02	17,582 80										112,635 73
Powder licenses.....		211 00	571 50	241 50	305 50	385 50	384 50	192 00	180 00	178 00	186 00	188 00	198 00	190 00	168 00	172 00	164 00	156 00	4,072 50
Special permits.....								258 00	274 00	328 00	370 00	366 00	722 00	872 00	806 00	956 00	1,068 00	1,208 00	7,228 00
Chimney fires.....		245 00	440 00	375 00	335 00	245 00	260 00	240 00	180 00	290 00	305 00	320 00	360 00	325 00	441 50	355 00	300 00	305 00	5,341 50
Fires in street permits.						50	41 75	85 00	64 00	56 50	65 00	63 00	59 00	60 50	69 50	68 00	65 50	43 50	741 75
Sales—Seized com- bustibles.....			24 25						6 30	10 00	63 25	35 37		6 75					145 92
Sales—Sample oils....				27 05				10 00		1 35	50 00								88 41
Excise licenses.....															18,397 00	62,406 50	94,684 00	78,094 00	253,581 50
Absences without leave															176 00	316 14	462 42	570 74	1,525 30
Special leaves.....															2,081 96	3,621 65	4,098 38	3,828 63	13,630 62
Sales—Condemned horses, etc.....															513 90	3,114 07	2,538 75	1,320 90	7,487 62
N. Y. State Dairy Commission.....															550 00			3,762 50	4,312 50
Totals.....	\$34,987 13	\$41,327 93	\$51,108 85	\$60,242 07	\$59,689 07	\$55,502 85	\$62,993 97	\$64,910 65	\$68,540 62	\$54,596 44	\$56,907 88	\$57,880 77	\$57,295 93	\$64,205 41	\$83,168 75	\$132,612 64	\$169,762 79	\$155,891 28	\$1,331,630 43

Disbursements.

FOR—	1871, 7 MONTHS	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	TOTALS.
Premium on city bonds																	\$2,700 00		\$2,700 00
Salaries.....	\$5,950 45	\$12,276 86																	18,227 31
Expense account.....	905 97	1,460 54	\$1,223 09	\$1,569 70	\$1,292 96	\$1,745 23	\$2,106 54	\$2,014 49	\$1,075 23	\$18 50	\$20 00	\$38 50	\$19 25	\$26 85			73 56		13,590 41
Pay of relieved men...								2,199 96	1,799 96	928 31	858 29	7,432 54	10,789 04	10,427 46	\$9,838 58	\$17,636 20	23,134 33	\$28,250 80	113,295 47
Pensions of retired men								6,068 40	8,073 24	12,906 19	21,211 78	23,190 08	24,018 17	44,274 59	55,550 15	56,958 68	55,755 19	52,264 38	360,274 39
Pensions of widows and orphans.....			1,819 50	2,625 00	2,736 68	3,344 53	4,220 09	5,900 71	6,329 94	13,339 63	15,388 16	17,551 27	20,359 40	23,133 65	25,116 27	28,707 58	30,251 94	34,424 11	235,178 46
Totals.....	\$6,856 42	\$13,737 40	\$3,042 59	\$4,194 70	\$4,029 64	\$5,089 76	\$6,326 63	\$16,083 56	\$17,278 37	\$27,192 63	\$37,478 23	\$48,222 32	\$55,195 86	\$77,862 55	\$90,505 00	\$103,302 45	\$111,925 02	\$114,939 29	\$743,262 43

Recapitulation.

Receipts, June 1, 1871, to December 31, 1888.....	\$1,331,630 43
Disbursements, June 1, 1871, to December 31, 1888.....	743,262 43
Balance on hand, December 31, 1888.....	\$588,367 60

Receipts and Disbursements of the New York Fire Department Life Insurance Fund—1871-1888.

Receipts.

1871.....	\$5,040 00
1872.....	7,773 00
1873.....	8,789 00
1874.....	6,395 00
1875.....	12,508 00
1876.....	11,074 00
1877.....	8,965 00
1878.....	9,241 00
1879.....	9,293 00
1880.....	9,640 00
1881.....	10,333 47
1882.....	10,917 34
1883.....	11,747 15
1884.....	12,845 59
1885.....	13,113 93
1886.....	17,686 53
1887.....	19,521 07
1888.....	19,764 79
Total receipts.....	\$204,647 87

Disbursements.

1871.....	\$5,000 00
1872.....	6,000 00
1873.....	9,000 00
1874.....	5,000 00
1875.....	14,000 00
1876.....	8,000 00
1877.....	8,000 00
1878.....	3,000 00
1879.....	9,000 00
1880.....	12,000 00
1881.....	10,000 00
1882.....	15,000 00
1883.....	9,000 00
1884.....	13,000 00
1885.....	19,000 00
1886.....	17,000 00
1887.....	20,000 00
1888.....	21,000 00
Total disbursements.....	\$203,000 00
Balance on hand December 31, 1888.....	\$1,647 87

NEW YORK FIRE DEPARTMENT LIFE INSURANCE FUND.

Dec. 31, 1887	Balance on hand.....		\$2,883 08
Dec. 31, 1888	Receipts:		
	For assessments.....	\$19,759 00	
	For interest on deposits.....	5 79	
			19,764 79
			\$22,647 87
Dec. 31, 1888	Disbursements:		
	To administratrix of James McManus, No. 1.....	\$1,000 00	
	" widow of John Timon.....	1,000 00	
	" administrator of John H. McKniff.....	1,000 00	
	" " Thomas A. Hopkins.....	1,000 00	
	" widow of Charles M. Moore.....	1,000 00	
	" " Thomas Walker.....	1,000 00	
	" " Joseph Wiedman.....	1,000 00	
	" administrator of John Brown.....	1,000 00	
	" widow of Robert Williams.....	1,000 00	
	" executrix of James Meehan.....	1,000 00	

Dec. 31, 1888

Disbursements:

To administratrix of Michael J. Flynn.....	\$1,000 00
" widow of Edward W. Wilhelm.....	1,000 00
" administrator of Joseph F. Manning.....	1,000 00
" executor of Thomas C. Lee.....	1,000 00
" widow of Michael J. Nolan.....	1,000 00
" administrator of W. W. Rhodes.....	1,000 00
" administratrix of William J. Kerneghan.....	1,000 00
" " John F. Beechinor.....	1,000 00
" widow of James A. Dougan.....	1,000 00
" " Albert Stilwell.....	1,000 00
" " Joseph Saunders.....	1,000 00
	\$21,000
balance.....	\$1,647 87

Very respectfully,

HENRY D. PURROY,
RICHARD CROKER,
FITZ-JOHN PORTER,
Commissioners.

CARL JUSSEN, Secretary.

HEALTH DEPARTMENT OF THE CITY OF NEW YORK,
SANITARY BUREAU, DIVISION OF VITAL STATISTICS,
No. 301 Mott Street.

REPORT FOR THE WEEK ENDING APRIL 13, 1889.

Col. EMMONS CLARK, Secretary Board of Health:

SIR—861 deaths were registered in this office during the week ending at noon of Saturday, April 13, 1889, representing an annual death-rate of 28.67 per 1,000 on an estimated population of 1,561,708.

Registered Mortality from the Principal Causes, with Ages of Decedents and Meteorology, for Week ending Saturday, April 13, 1889.

METEOROLOGY.		WEEK ENDING—								Annual Death-rate per 1,000 from each Cause for Week.	Total for Corresponding Week of Last Year.	Annual Death-rate per 1,000 from each Cause for Same Week.	Corrected Average * for Corresponding Week of Past Ten Years.	AGES.										SEX, NATIVITY AND RACE.				
		CAUSE OF DEATH.												Under 1 Month.	1 Month and under 1 Year.	1 and under 2.	2 and under 5.	Total under 5.	5 and under 15.	15 and under 25.	25 and under 45.	45 and under 65.	65 and over.	Males.	Females.	Natives.	Foreign-born.	Colored.
		Feb. 23	Mar. 2	Mar. 9	Mar. 16	Mar. 23	Mar. 30	April 6	April 13																			
Total, all causes.....		870	857	877	863	822	860	862	861	28.67	787	26.98	819.2	65	143	82	97	387	54	44	168	129	81	462	399	556	395	30
Cerebro-spinal Meningitis.....		3	3	3	3	3	4	7	2	.07	6	.21	6.6	..	..	1	..	1	1	..	..	..	..	1	1	2	..	..
Diphtheria.....		52	35	50	47	42	47	48	60	2.00	33	1.13	31.0	..	7	12	29	48	10	1	..	..	1	32	28	53	7	..
Enteric Fever.....		4	6	2	6	5	5	6	5	.17	4	.14	3.5	..	..	1	..	1	1	1	..	..	1	3	2	4	1	1
Erysipelas.....		2	4	4	4	4	3	5	5	.17	2	.07	5.8	..	..	..	..	1	1	..	1	1	2	3	2	2	3	..
Malarial Fevers.....		2	3	4	1	..	6	4	3	.10	7	.24	9.1	..	1	..	..	1	2	..	..	..	3	..	2	1	..	..
Measles.....		12	25	21	20	16	13	13	19	.63	5	.17	17.3	..	5	8	4	17	2	..	..	..	11	8	17	2	..	..
Scarlatina.....		58	50	54	46	59	57	71	54	1.30	32	1.10	29.0	..	2	13	27	42	9	2	1	..	25	29	49	5	1	..
Small-pox.....		..	..	..	..	..	..	..	..	..	4	.14	3.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Typhus Fever.....		..	..	..	..	..	..	..	..	..	..	..	2.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough.....		15	18	24	24	17	14	19	21	.70	4	.14	10.6	..	12	4	5	21	..	..	..	..	8	13	21	..	..	1
Yellow Fever.....		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera, Asiatic.....		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera Morbus.....		1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Diarrhoeal Diseases.....		15	15	15	12	16	10	8	13	.43	16	.55	14.1	1	8	..	9	..	..	..	2	2	8	5	3	4	..	..
Other Zymotic Diseases.....		8	7	6	7	7	5	2	1	.03	3	.10	..	..	1	..	..	1	..	..	..	..	1	..	1	..	..	..
Cancer.....		16	12	16	17	14	21	14	20	.67	24	.82	16.1	..	..	..	..	..	..	10	6	4	6	14	9	11	1	1
Rheumatism.....		7	4	11	5	7	6	5	4	.13	2	.07	4.3	..	..	..	..	..	..	2	2	..	1	3	1	3	..	..
Phthisis.....		115	106	110	105	92	129	169	109	3.63	129	4.42	130.6	..	1	..	3	4	2	20	58	21	65	44	36	73	5	1
Other Constitutional Diseases.....		23	23	32	20	29	17	23	26	.87	16	.55	..	..	4	1	7	12	1	3	5	..	13	13	17	9	1	..
Apoplexy.....		22	17	28	25	15	21	19	12	.40	24	.82	16.2	1	..	..	..	1	..	..	7	4	5	7	3	9	..	..
Convulsions.....		18	16	23	12	15	7	12	14	.47	18	.62	16.2	9	4	1	..	14	..	..	..	..	10	4	14	..	1	..
Meningitis and Encephalitis.....		19	17	18	24	18	25	21	15	.50	21	.72	22.6	1	3	4	2	10	3	..	1	..	1	6	9	11	4	..
Other Diseases of Nervous System.....		23	23	16	27	26	24	29	26	.87	29	1.00	..	4	3	2	1	10	..	5	6	5	17	9	15	11	..	..
Aneurism.....		1	3	1	2	2	..	2	1	.03	..	..	2.3	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..
Heart Diseases.....		43	48	39	37	38	57	41	39	1.30	25	.86	38.2	1	..	2	1	4	4	1	8	15	7	23	16	15	24	4
Other Diseases of Circulatory System.....		..	4	2	5	..	1	4	1	.03	3	.10	..	..	..	..	..	..	..	..	..	1	..	1	..	1	..	..
Bronchitis.....		59	61	45	64	52	55	37	41	1.37	32	1.10	42.2	2	20	6	..	28	3	1	..	7	22	19	31	10	2	..
Croup.....		20	18	16	15	13	17	15	15	.50	10	.34	19.8	..	2	4	7	13	2	..	..	..	..	12	3	15	..	..
Pneumonia.....		101	109	139	126	111	109	133	124	4.13	123	4.22	115.1	2	35	17	4	30	5	4	30	19	8	60	64	85	39	1
Other Diseases of Respiratory System.....		12	17	12	15	7	10	9	10	.33	15	.51	..	5	3	..	..	8	..	..	1	1	7	3	9	1	1	..
Gastritis, Gastro-Enteritis,†Enteritis† and Peritonitis		16	13	16	15	22	16	13	20	.67	16	.55	16.9	5	10	..	2	17	1	..	1	1	13	7	18	2	..	..
Cirrhosis of Liver and Hepatitis.....		8	10	7	8	5	5	4	8	.27	5	.17	7.9	..	..	1	..	..	3	3	1	1	4	4	2	6	..	..
Other Diseases of Digestive System.....		11	9	9	9	13	19	11	12	.40	18	.62	..	1	2	1	..	4	..	1	2	3	7	5	7	5	..	..
Bright's Disease and Nephritis.....		65	62	46	54	49	41	52	52	1.73	49	1.68	43.1	..	1	..	1	2	2	1	16	18	13	21	31	21	31	5
Premature and Preterm Births, Cyanosis and Atelectasis.....		16	29	21	22	21	24	32	23	.77	18	.62	24.8	19	4	..	..	23	..	..	..	..	13	10	23	..	..	..
Puerperal Diseases.....		14	11	15	12	13	13	11	8	.27	11	.38	12.5	..	..	..	..	..	3	5	..	..	..	8	3	5	..	..
Old Age.....		15	16	13	13	15	10	13	16	.53	13	.45	..	..	..	..	..	..	..	2	14	7	9	7	9	1	2	..
Alcoholism.....		1	3	6	3	4	6	2	4	.13	1	.03	4.1	..	..	..	..	..	..	4	..	..	4	..	3	1	..	..
Sunstroke.....		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Accident.....		26	10	9	10	9	18	19	24	.80	19	.65	..	1	2	1	1	5	4	1	7	5	2	18	6	12	12	1
Homicide.....		..	2	2	..	2	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Suicide.....		9	3	7	3	2	6	2	8	.27	7	.24	5.5	..	..	..	..	..	..	2	3	2	1	7	1	1	7	..
Under One Month.....		39	54	39	57	58	53	48	65	2.16	39	1.34	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
One Month and under One Year.....		149	126	148	129	137	145	118	143	4.76	115	3.94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total under Five Years.....		370	367	395	369	373	366	375	387	12.88	304	10.42	312.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sixty-five Years and over.....		85	90	91	83	81	62	86	81	2.70	90	3.09	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Natives.....		585	554	570	569	550	564	565	556	18.51	483	16.56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Foreign-born.....		285	303	307	294	272	296	297	305	10.16	304	10.42	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Colored.....		23	21	18	23	21	25	20	30	1.00	12	.41	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

* i. e., the average number increased to correspond with the increase of population.

† Deaths reported as due to diarrhoeal forms of these diseases are

Deaths from Zymotic and Certain Other Preventable Diseases, by Wards, for Week ending Saturday, April 13, 1889.*

* Deaths in institutions redistributed according to residence, where residence was known.

Places where Deaths Occurred during Week ending Saturday, April 13, 1889.

Particulars Regarding Births, Deaths, Marriages and Still-births for Week ending Saturday, April 13, 1889.

* 1 Sex not stated.

Statistics of American and Foreign Cities.

ROGER S. TRACY, M. D., Register.

DEPARTMENT OF PUBLIC WORKS.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE, NO. 31 CHAMBERS STREET,
NEW YORK, April 20, 1889.

In accordance with the provisions of section 51 of chapter 410 of the Laws of 1882, the Department of Public Works makes the following report of its transactions for the week ending April 13, 1889:

Public Moneys Received during the Week.

For Croton water rents.....	\$29,337 72
For penalties on water rents.....	298 50
For tapping Croton pipes.....	305 00
For sewer permits.....	572 00
For restoring and repaving—Special Fund.....	985 00
For redemption of obstructions seized.....	33 00
For vault permits.....	2,370 83
Total.....	\$33,902 05

Public Lamps.

6 new lamps lighted.
1 old lamp relighted.
6 lamps discontinued.
1 lamp-post removed.
3 lamp-posts reset.
13 lamp-posts straightened.
11 columns released.

Report of Photometrical Examinations of Illuminating Gas, for the week ending April 13, 1889, made at the Photometrical Rooms of the Department of Public Works.

DATE.	TIME.	Thermometer.	Barometer.	GAS COMPANY.	BURNER.	Pressure as Delivered to Burner.	Consumption of Gas, Rate per hour.	Consumption of Candle, Grs. per hour.	ILLUMINATING POWER.	
									Observed.	Corrected.
Apr. 8	6 P.M.	67.	30.06	{ Consolidated, } Branch 2..	Empire 5 ft.....	.61	5.00	120.0	20.68	20.68
" 9	6 P.M.	68.	29.84	"	"	.63	5.00	121.8	21.32	21.64
" 10	8 P.M.	69.	29.93	"	"	.61	5.00	118.8	22.04	21.82
" 11	2 P.M.	74.	29.96	"	"	.63	5.00	121.8	20.80	21.11
" 12	5 P.M.	76.	29.63	"	"	.62	5.00	120.0	21.36	21.36
" 13	1 P.M.	73.	29.75	"	"	.61	5.00	114.6	22.24	21.24
									Average.	21.37
Apr. 8	5:30 P.M.	67.	30.06	{ Consolidated, } Branch 1..	Bray's Slit Union, 7	.83	5.00	115.8	24.04	23.20
" 9	6:30 P.M.	68.	29.84	"	"	.85	5.00	120.0	24.08	24.08
" 10	7:30 P.M.	69.	29.93	"	"	.84	5.00	122.4	24.18	24.66
" 11	2:30 P.M.	74.	29.96	"	"	.85	5.00	121.2	23.70	23.94
" 12	4:30 P.M.	76.	29.63	"	"	.82	5.00	119.4	24.38	24.26
" 13	1:30 P.M.	73.	29.75	"	"	.84	5.00	121.8	23.36	23.71
									Average.	23.97
Apr. 8	8:30 P.M.	68.	30.04	{ Consolidated, } Branch 4..	Bray's Slit Union, 6	.69	5.00	120.0	23.14	23.14
" 9	9 P.M.	67.	29.88	"	"	.69	5.00	116.4	22.70	22.02
" 10	9:30 P.M.	68.	29.90	"	"	.68	5.00	120.0	23.48	23.48
" 11	10 A.M.	66.	30.10	"	"	.66	5.00	123.0	23.64	24.23
" 12	6 P.M.	72.	29.57	"	"	.66	5.00	120.0	24.50	24.90
" 13	6:30 P.M.	70.	29.89	"	"	.66	5.00	117.6	24.04	23.56
									Average.	23.55
Apr. 8	8 P.M.	68.	30.04	{ Consolidated, } Branch 6..	Bray's Slit Union, 6	.81	5.00	115.2	28.94	27.78
" 9	9:30 P.M.	67.	29.88	"	"	.81	5.00	118.2	27.88	27.46
" 10	10 P.M.	68.	29.90	"	"	.81	5.00	121.2	27.60	27.87
" 11	9:30 A.M.	66.	30.10	"	"	.81	5.00	120.0	28.10	28.10
" 12	6:30 P.M.	72.	29.57	"	"	.80	5.00	114.0	30.00	28.50
" 13	6 P.M.	70.	29.89	"	"	.79	5.00	121.2	27.48	27.75
									Average.	27.91
Apr. 8	5 P.M.	67.	30.06	{ Consolidated, } Branch 3..	Bray's Slit Union, 7	.94	5.00	118.2	28.04	27.62
" 9	7 P.M.	68.	29.84	"	"	.93	5.00	123.0	27.66	28.35
" 10	7 P.M.	69.	29.93	"	"	.92	5.00	117.6	28.32	27.75
" 11	3 P.M.	74.	29.96	"	"	.94	5.00	115.2	29.90	28.70
" 12	4 P.M.	76.	29.63	"	"	.92	5.00	120.0	28.14	28.14
" 13	2 P.M.	73.	29.75	"	"	.92	5.00	117.0	30.18	29.43
									Average.	28.33
Apr. 8	4 P.M.	67.	30.06	N. Y. Mutual...	Bray's Slit Union, 7	.68	5.00	121.2	30.84	31.15
" 9	7:30 P.M.	68.	29.84	"	"	.99	5.00	120.0	30.96	30.96
" 10	6:30 P.M.	69.	29.93	"	"	.98	5.00	121.8	31.36	31.83
" 11	3:30 P.M.	74.	29.96	"	"	.99	5.00	120.0	31.62	31.62
" 12	3 P.M.	76.	29.63	"	"	.98	5.00	120.6	30.48	30.63
" 13	3 P.M.	73.	29.75	"	"	.97	5.00	120.0	31.20	31.20
									Average.	31.23
Apr. 8	4:30 P.M.	67.	30.06	Equitable.....	Bray's Slit Union, 7	.98	5.00	120.0	31.40	31.40
" 9	8 P.M.	68.	29.84	"	"	.98	5.00	123.0	30.96	31.73
" 10	6 P.M.	69.	29.93	"	"	.98	5.00	120.0	32.38	32.38
" 11	4 P.M.	74.	29.96	"	"	.99	5.00	126.0	30.80	32.34
" 12	3:30 P.M.	76.	29.63	"	"	.97	5.00	118.2	31.64	31.17
" 13	2:30 P.M.	73.	29.75	"	"	.97	5.00	123.0	29.70	30.44
									Average.	31.57

E. G. LOVE, Ph. D., Gas Examiner.

Permits Issued.

74 permits to tap Croton pipes.
60 permits to open streets.
27 permits to make sewer connections.

37 permits to repair sewer connections.
169 permits to place building material on streets.
30 permits—special.
8 permits to construct street vaults.

Obstructions Removed.

58 obstructions removed from the various streets and avenues.

Pavement Repairs.

11,085 square yards of pavement repaired.

Repairing and Cleaning Sewers.

57 receiving-basins and culverts cleaned.
6,016 lineal feet of sewer cleaned.
45 lineal feet of sewer repaired.
75 lineal feet of new sewer built.
12 lineal feet of new culvert built.
6 lineal feet of spur-pipe laid.
16 lineal feet of new curb set.
125 square feet of rip-rap wall built.
1 new manhole built.
12 manhole heads reset.
2 new manhole heads and covers put on.
5 new manhole covers put on.
4 new basin heads and covers put on.
1 new basin cover put on.
1 basin repaired.
27 square yards of pavement relaid.
70 square feet of flagging relaid.
32 square feet of brickwork built.
41 cubic yards earth excavated and refilled.
166 cart-loads dirt removed.

Statement of Laboring Force Employed in the Department of Public Works during the week ending April 13, 1889.

NATURE OF WORK.	MECHANICS. LABORERS. TEAMS. CARTS			
Aqueduct—Repairs and Maintenance and Strengthening.....	34	148	6	9
Supplying Water to Shipping.....	6	"	"	"
Laying Croton Pipes.....	3	13	2	"
Repairing and Renewals of Pipes, Stop-cocks, etc., etc.....	62	127	"	16
Bronx River Works—Maintenance and Repairs.....	2	13	2	"
Repairing and Cleaning Sewers.....	6	49	"	21
Repairs and Renewals of Pavements.....	172	284	4	92
Boulevards, Roads and Avenues, Maintenance of.....	13	65	27	4
Roads, Streets and Avenues.....	2	22	5	2
Totals.....	300	721	46	144
Increase over previous week.....	33	72	5	22
Decrease from previous week.....	"	"	"	"

Contracts Entered into.

DATE.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.
1889.				
Mar. 29	Furnishing materials and performing the work of building a Keeper's house at Williamsbridge reservoir	Terence A. Smith, 162 East 36th street.	Jos. C. Biglin, 158 East 37th street.. Thomas Bartley, 546 Third avenue ..	\$8,749 00
Apr. 1	Furnishing materials and performing work in building two floating swimming baths, "A" and "B"...	Thos. J. Sheridan, 145 East 67th street.	Edward C. Sheehy, 8 West 125th street.. Michael L. Begley, 302 East 80th street.	23,800 00
" 3	Fencing vacant lots on south side of East Seventy-seventh street, between Madison and Park avenues	Bernard A. Roth, 402 East 122d street.	F. Thileman, Jr., 119 East 122d street.	37 00
" 4	Furnishing and delivering to the Department of Public Works about 1,500 cubic yards of Roa Hook gravel, suitable for road surfacing; also, about 3,400 cubic yards of Roa Hook gravel bank screenings	Louis D. Beck, Astor House.....	Ransom Parker, Jr., 224 West 11th street. Charles B. Peet, 15 East 19th street ..	8,616 00
" 5	Flagging sidewalks on west side Third avenue, from Eighty-seventh to Eighty-eighth street	George F. Masterson, 122d street and Madison avenue.....	F. Thilemann, Jr., 119 East 122d street.	417 26
" 5	Paving with trap-block pavement One Hundred and Ninth street, from First avenue to present bulkhead on the East or Harlem river	P. H. McCullagh, 240 East 32d street..	Michael Regan, 90 Barrow street Thomas Regan, 719 Lexington ave ..	3,487 41
" 8	Receiving-basin, northwest corner of One Hundred and Forty-third street and Eighth avenue.....	John Slattery, 868 Fourth avenue ..	Michael Sheridan, 213 West 60th street.	280 00
" 10	Loading and hauling away material from old reservoir, Central Park.	Terence A. Smith, 162 East 36th street.	Bernard Mahon, 2293 Seventh avenue. Walter J. Ford, 79 Sixth avenue.....	18,000 00
" 10	Flagging, etc., west side Second avenue, from One Hundred and Twenty-fifth to One Hundred and Twenty-eighth street, where not already done.....	S. D. Seaman, 319 East 123d street.	George N. Manchester, 417 East 116th street.	426 90
" 12	Flagging, etc., east side of Fifth avenue, from Fifty-sixth to Fifty-seventh street	D. W. Moran, 349 East 72d street..	P. McGinness, 1546 Park avenue.	697 68
" 12	Flagging, etc., east side of Madison avenue, from Eighty-eighth to Eighty-ninth street.....	D. W. Moran, 349 East 72d street..	P. McGinness, 1546 Park avenue.	333 99
" 12	Flagging, Seventy-seventh street, east side, from Park to Madison avenue.....	D. W. Moran, 349 East 72d street ..	P. McGinness, 1546 Park avenue.	263 58

Contracts Completed.

DATE.	NATURE OF WORK.	LOCATION OF WORK.	AMOUNT.
1889.			
Apr. 5	Sewer.....	In Eighty-ninth street, between Riverside and West End avenues	\$6,422 07
" 5	"	In Seventy-seventh street, between Riverside and West End avenues.....	5,432 07

Promotion.

William Dunbar, from Inspector of Masonry to Keeper, at \$1,200 per annum.

Requisitions on the Comptroller.

The total amount of requisitions drawn by the Department on the Comptroller during the week is \$24,498.50.

D. LOWBER SMITH, Commissioner of Public Works.

EXECUTIVE DEPARTMENT.

MAYOR'S OFFICE,
NEW YORK, February 1, 1889.

Pursuant to section 9 of chapter 339, Laws of 1883, I hereby designate the "Daily News" and the "New York Morning Journal," two of the daily papers printed in the City of New York, in which notice of each sale of unredeemed pawns or pledges by public auction in said city, by pawnbrokers, shall be published for at least six days previous thereto, until otherwise ordered.

HUGH J. GRANT, Mayor.

OFFICIAL DIRECTORY.

STATEMENT OF THE HOURS DURING which all the Public Offices in the City are open for business, and at which each Court regularly opens and adjourns, as well as of the places where such offices are kept and such Courts are held; together with the heads of Departments and Courts:

EXECUTIVE DEPARTMENT

Mayor's Office.

No. 6 City Hall, 10 A. M. to 4 P. M.; Saturdays, 10 A. M. to 12 M.
HUGH J. GRANT, Mayor. THOMAS C. T. CRAIN, Secretary and Chief Clerk.

Mayor's Marshal's Office.

No. 1 City Hall, 9 A. M. to 4 P. M.
DANIEL ENGELHARD, First Marshal.
FRANK FOX, Second Marshal.

COMMISSIONERS OF ACCOUNTS.

Rooms 114 and 115, Stewart Building, 9 A. M. to 4 P. M.
MAURICE F. HOLAHAN, EDWARD P. BARKER.

AQUEDUCT COMMISSIONERS.

Room 209, Stewart Building, 5th floor, 9 A. M. to 5 P. M.
JAMES C. DUANE, President; JOHN C. SHEEHAN, Secretary; A. FTELEV, Chief Engineer; J. C. LULLEV, Auditor.

BOARD OF ARMORY COMMISSIONERS.

THE MAYOR, Chairman; PRESIDENT OF DEPARTMENT OF TAXES AND ASSESSMENTS, Secretary.
Address M. COLEMAN, Staats Zeitung Building, Tryon Row. Office hours, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.

COMMON COUNCIL.

Office of Clerk of Common Council.

No. 8 City Hall, 9 A. M. to 4 P. M.
JOHN H. V. ARNOLD, President Board of Aldermen.
FRANCIS J. TWOMEY, Clerk Common Council.

City Library.

No. 12 City Hall, 10 A. M. to 4 P. M.
WILLIAM H. RURODE, City Librarian.

DEPARTMENT OF PUBLIC WORKS.

Commissioner's Office.

No. 31 Chambers street, 9 A. M. to 4 P. M.
D. LOWRIE SMITH, Commissioner; ———, Deputy Commissioner.

Bureau of Chief Engineer.

No. 31 Chambers street, 9 A. M. to 4 P. M.
GEORGE W. BIRDSALL, Chief Engineer.

Bureau of Water Register.

No. 31 Chambers street, 9 A. M. to 4 P. M.
JOHN H. CHAMBERS, Register.

Bureau of Street Improvements.

No. 31 Chambers street, 9 A. M. to 4 P. M.
WM. M. DEAN, Superintendent.

Engineer-in-Charge of Sewers.

No. 31 Chambers street, 9 A. M. to 4 P. M.
HORACE LOOMIS, Engineer-in-Charge.

Bureau of Repairs and Supplies.

No. 31 Chambers street, 9 A. M. to 4 P. M.
WILLIAM G. BERGEN, Superintendent.

Bureau of Water Purveyor.

No. 31 Chambers street, 9 A. M. to 4 P. M.
ALSTON G. CULVER, Water Purveyor.

Bureau of Lamps and Gas.

No. 31 Chambers street, 9 A. M. to 4 P. M.
STEPHEN MCCORMICK, Superintendent.

Bureau of Streets.

No. 31 Chambers street, 9 A. M. to 4 P. M.
GEO. E. BARCOCK, Superintendent.

Bureau of Incumbances.

No. 31 Chambers street, 9 A. M. to 4 P. M.
JOHN RICHARDSON, Superintendent.

Keeper of Buildings in City Hall Park.

MARTIN J. KEESSE, City Hall.

FINANCE DEPARTMENT.

Comptroller's Office.

No. 15 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
THEODORE W. MYERS, Comptroller; RICHARD A. STORRS, Deputy Comptroller.

Auditing Bureau.

Nos. 19, 21, 23 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
WILLIAM J. LYON, First Auditor.
DAVID E. AUSTEN, Second Auditor.

Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents.

Nos. 31, 33, 35, 37, 39 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
ARTEMAS S. CADY, Collector of Assessments and Clerk of Arrears.
No money received after 2 P. M.

Bureau for the Collection of City Revenue and of Markets.

Nos. 1 and 3 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
JAMES DALY, Collector of the City Revenue and Superintendent of Markets.
GRAHAM MCADAM, Chief Clerk.
No money received after 2 P. M.

Bureau for the Collection of Taxes.

No. 57 Chambers street and No. 35 Reade street, Stewart Building, 9 A. M. to 4 P. M.
GEORGE W. MCLEAN, Receiver of Taxes; ALFRED VREDENBURGH, Deputy Receiver of Taxes.
No money received after 2 P. M.

Bureau of the City Chamberlain.

Nos. 25, 27 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
RICHARD CROKER, City Chamberlain.

Office of the City Paymaster.

No. 33 Reade street, Stewart Building, 9 A. M. to 4 P. M.
JOHN H. TIMMERMAN, City Paymaster.

LAW DEPARTMENT.

Office of the Counsel to the Corporation.

Staats Zeitung Building, third floor, 9 A. M. to 5 P. M.
Saturdays, 9 A. M. to 4 P. M.
HENRY K. BREKMAN, Counsel to the Corporation.
ANDREW T. CAMPBELL, Chief Clerk.

Office of the Public Administrator.

No. 49 Beekman street, 9 A. M. to 4 P. M.
RICHARD J. MORRISON, Public Administrator.
Office of the Corporation Attorney.

No. 49 Beekman street, 9 A. M. to 4 P. M.
WILLIAM A. BOYD, Corporation Attorney.

POLICE DEPARTMENT.

Central Office.

No. 300 Mulberry street, 9 A. M. to 4 P. M.
STEPHEN B. FRENCH, President; WILLIAM H. KIPP, Chief Clerk; JOHN J. O'BRIEN, Chief Bureau of Elections.

DEPARTMENT OF CHARITIES AND CORRECTION.

Central Office.

No. 66 Third avenue, corner Eleventh street, 9 A. M. to 4 P. M.
THOMAS S. BRENNAN, President; GEORGE F. BRITTON, Secretary.

Purchasing Agent, FREDERICK A. CUSHMAN. Office hours, 9 A. M. to 4 P. M. Saturdays, 12 M.
Contracts, Proposals and Estimates for Work and Materials for Building, Repairs and Supplies, Bills and Accounts, 9 A. M. to 4 P. M. Saturdays, 12 M. CHARLES BENN, General Bookkeeper.

Out-Door Poor Department. Office hours, 8.30 A. M. to 4.30 P. M. WILLIAM BLAKE, Superintendent. Entrance on Eleventh street.

FIRE DEPARTMENT.

Office hours for all, except where otherwise noted from 9 A. M. to 4 P. M. Saturdays, 12 M.

Headquarters.

Nos. 157 and 159 East Sixty-seventh street.
HENRY D. PURROY, President; CARL JUSSEN, Secretary.

Bureau of Chief of Department.

CHARLES O. SHAY, Chief of Department.

Bureau of Inspector of Combustibles.

PETER SEERY, Inspector of Combustibles.

Bureau of Fire Marshal.

JAMES MITCHELL, Fire Marshal.

Bureau of Inspection of Buildings.

THOMAS J. BRADY, Superintendent of Buildings.

Attorney to Department.

WM. L. FINDLEY.

Fire Alarm Telegraph.

J. ELLIOT SMITH, Superintendent.

Central Office open at all hours.

Repair Shops.

Nos. 128 and 130 West Third street.

JOHN CASTLES, Foreman-in-Charge, 8 A. M. to 5 P. M.

Hospital Stables.

Ninety-ninth street, between Ninth and Tenth avenues.
JOSEPH SHEA, Foreman-in-Charge.

Open at all hours.

HEALTH DEPARTMENT.

No. 301 Mott street, 9 A. M. to 4 P. M.
JAMES C. BAYLES, President; EMMONS CLARK, Secretary.

DEPARTMENT OF PUBLIC PARKS.

Emigrant Industrial Savings Bank Building, Nos. 49 and 51 Chambers street, 9 A. M. to 4 P. M. Saturdays, 12 M.
J. HAMPDEN ROBB, President; CHARLES DE F. PURNS, Secretary.

Office of Topographical Engineer.

Arsenal, Sixty-fourth street and Fifth avenue, 9 A. M. to 5 P. M.

Office of Superintendent of 23d and 24th Wards.

One Hundred and Forty-sixth street and Third avenue, 9 A. M. to 5 P. M.

DEPARTMENT OF DOCKS.

Battery, Pier A, North river.

EDWIN A. POST, President; G. KEMBLE, Secretary.
Office hours, from 9 A. M. to 4 P. M.

DEPARTMENT OF TAXES AND ASSESSMENTS.

Staats Zeitung Building, Tryon Row, 9 A. M. to 4 P. M. Saturdays, 12 M.

MICHAEL COLEMAN, President; FLOYD T. SMITH, Secretary.

Office Bureau Collection of Arrears of Personal Taxes
No. 53 Chambers street, Room 41, 9 A. M. to 4 P. M.
CHARLES S. BEARDSLEY, Attorney; SAMUEL BARRY, Clerk.

DEPARTMENT OF STREET CLEANING.

49 and 51 Chambers street. Office hours, 9 A. M. to 4 P. M.
JAMES S. COLEMAN, Commissioner; ALBERT H. ROGERS, Deputy Commissioner; R. W. HORNER, Chief Clerk.

CIVIL SERVICE SUPERVISORY AND EXAMINING BOARDS.

Cooper Union, 9 A. M. to 4 P. M.

JAMES THOMSON, Chairman of the Supervisory Board; GUNTHER K. ACKERMAN, Secretary and Executive Officer.

BOARD OF ESTIMATE AND APPORTIONMENT

Office of Clerk, Staats Zeitung Building, Room 5.
The MAYOR, Chairman; CHARLES V. ADEE, Clerk.

BOARD OF ASSESSORS.

Office, 27 Chambers street, 9 A. M. to 4 P. M.
EDWARD GILON, Chairman; WM. H. JASPER, Secretary

BOARD OF EXCISE.

No. 54 Bond street, 9 A. M. to 4 P. M.
CHARLES H. WOODMAN, President; GEORGE H. GALE, Secretary and Chief Clerk.

SHERIFF'S OFFICE.

Nos. 3 and 4 New County Court-house, 9 A. M. to 4 P. M.
JAMES A. FLACK, Sheriff; THOMAS F. GILROY, Under Sheriff; BERNARD F. MARTIN, Order Arrest Clerk.

REGISTER'S OFFICE.

East side City Hall Park, 9 A. M. to 4 P. M.

JAMES J. SLEVIN, Register; JAMES J. MARTIN, Deputy Register.

COMMISSIONER OF JURORS.

Room 127, Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.

CHARLES REILLY, Commissioner; JAMES E. CONNER, Deputy Commissioner.

COUNTY CLERK'S OFFICE.

Nos. 7 and 8 New County Court-house, 9 A. M. to 4 P. M.

EDWARD F. REILLY, County Clerk; P. J. SCULLY, Deputy County Clerk.

DISTRICT ATTORNEY'S OFFICE.

Second floor, Brown-stone Building, City Hall Park, 9 A. M. to 4 P. M.

JOHN R. FELLOWS, District Attorney; JAMES McCABE, Chief Clerk.

THE CITY RECORD OFFICE,

And Bureau of Printing, Stationery, and Blank Books.

No. 2 City Hall, 9 A. M. to 5 P. M., except Saturdays, on which days 9 A. M. to 12 M.
WILLIAM G. McLAUGHLIN, Supervisor; R. P. H. ABELL, Bookkeeper.

CORONERS' OFFICE.

Nos. 13 and 15 Chatham street, 8 A. M. to 5 P. M. Sundays and holidays, 8 A. M. to 12.30 P. M.

MICHAEL J. B. MESSEMER, FERDINAND LEVY, DANIEL HANLY, LOUIS W. SCHULTZ, Coroners; EDWARD F. REYNOLDS, Clerk of the Board of Coroners.

SUPREME COURT

Second floor, New County Court-house, opens at 10.30 A. M.

CHARLES H. VAN BRUNT, Presiding Justice; EDWARD F. REILLY, Clerk; P. J. SCULLY, Deputy County Clerk. General Term, Room No. 9, WILLIAM LAMB, Jr., Clerk.

Special Term, Part I., Room No. 10, HUGH DONNELLY, Clerk.

Special Term, Part II., Room No. 13, WILLIAM J. HILL, Clerk.

Chambers, Room No. 11, WALTER BRADY, Clerk.

Circuit, Part I., Room No. 12, ———, Clerk.

Circuit, Part II., Room No. 14, JOHN B. MCGOLDRICK, Clerk.

Circuit, Part III., Room No. 13, GEORGE F. LYON, Clerk.

Circuit, Part IV., Room No. 15, J. LEWIS LYON, Clerk.

Judges' Private Chambers, Rooms Nos. 19 and 20, SAMUEL GOLDBERG, Librarian.

SUPERIOR COURT.

Third floor, New County Court-house, 11 A. M.

General Term, Room No. 35.

Special Term, Room No. 33.

Chambers, Room No. 33, 10 A. M.

Part I., Room No. 34.

Part II., Room No. 35.

Judges' Private Chambers, Room No. 30.

Naturalization Bureau, Room No. 32.

Clerk's Office, Room No. 31, 9 A. M. to 4 P. M.

JOHN SEDGWICK, Chief Judge; THOMAS BOESE, Chief Clerk.

PUBLIC POUND.

NEW YORK, April 25, 1889.

AUCTION SALE OF ONE BAY HORSE, sixteen hands high, one large hind leg, on Saturday, April 27, 1889.

By order of

SAMUEL BRAWLEY,

Pound Master.

NEW YORK, April 23, 1889.

AUCTION SALE OF A NANNY GOAT, PUBLIC Pound, corner One Hundred and Seventy-seventh street and McComb's Dam road, on Friday, at 12 o'clock noon.

Also 2 Yearling Calves.

By order of

SAMUEL BRAWLEY,

Pound Master.

BOARD OF STREET OPENING AND IMPROVEMENT.

NOTICE IS HEREBY GIVEN THAT THERE will be a meeting of the Board of Street Opening and Improvement of the City of New York held in the Mayor's Office, on Friday, April 26, 1889, at 2 o'clock P. M., at which meeting it is proposed to consider the extension of Bethune street, unfinished business, and such other matters as may be brought before the Board.

Dated April 22, 1889.

WM. V. I. MERCER,

Secretary.

POLICE DEPARTMENT.

POLICE DEPARTMENT OF THE CITY OF NEW YORK,
No. 300 MULBERRY STREET,
NEW YORK, April 12, 1889.

PUBLIC NOTICE IS HEREBY GIVEN THAT a Horse, the property of this Department, will be sold at public auction, on Friday, April 26, 1889, at 10 o'clock A. M., by Van Dusen & Kearney, Auctioneers, at their stables, No. 130 East Thirtieth street.

By order of the Board.

WM. H. KIPP,

Chief Clerk.

POLICE DEPARTMENT—CITY OF NEW YORK,
OFFICE OF THE PROPERTY CLERK (Room No. 9),
No. 300 MULBERRY STREET,
NEW YORK, 1889.

OWNERS WANTED BY THE PROPERTY Clerk of the Police Department of the City of New York, No. 300 Mulberry street, Room No. 9, for the following property, now in his custody, without claimants: Boats, rope, iron, lead, male and female clothing, boots, shoes, wine, blankets, diamonds, canned goods, liquors, etc., also small amount money taken from prisoners and found by patrolmen of this Department.

By order of the Board.

JOHN F. HARRIOT,

Property Clerk.

FINANCE DEPARTMENT.

PLANS FOR A BUILDING FOR CRIMINAL COURTS AND OTHER PURPOSES IN THE CITY OF NEW YORK.

NOTICE TO ARCHITECTS.

IN ACCORDANCE WITH THE PROVISIONS of chapter 371 of the Laws of 1887, entitled "An act to provide for the erection of a building for criminal courts and other purposes in the City of New York," the Commissioners of the Sinking Fund will receive plans, specifications and estimates of cost until the 20th day of June, 1889, for the building provided for in the said act, to be erected on the block bounded by Centre and Elm and White and Franklin streets.

The plans, estimates and specifications to be submitted are described in a paper entitled "Instructions to Architects," which can be obtained on application at the Comptroller's office. These "instructions" will also contain a diagram of the plot on which the building is to be erected, showing location, dimensions, etc.

The architect whose plan, estimate and specification shall be approved and accepted by the Commissioners will be appointed Architect for the construction of the building and be paid for his services in superintending the work the fees prescribed by the "American Institute of Architects," provided his standing is such as to guarantee a faithful discharge of his duties.

Each set of plans, estimates and specifications submitted shall be marked with such assumed designation as the architect may select, provided there shall be filed with the Mayor a sealed envelope giving the real name of the competitor, which will not be opened until the selection shall have been made.

THEO. W. MYERS, Comptroller,
WALTON STORM, Chairman Finance Committee,
Board of Aldermen,

NEW YORK, April 22, 1889.

PROPOSALS FOR \$1,500,000 CONSOLIDATED STOCK OF THE CITY OF NEW YORK.

SECURED BY THE SINKING FUND, PAYABLE IN FORTY YEARS—REDEEMABLE IN TWENTY YEARS.

EXEMPT FROM TAXATION.

INTEREST TWO AND ONE-HALF PER CENT. PER ANNUM.

SEALED PROPOSALS WILL BE RECEIVED at the office of the Comptroller of the City of New York, until Tuesday, the 7th day of May, 1889, at 2 o'clock P. M., when they will be publicly opened by him in the presence of the Commissioners of the Sinking Fund, or such of them as shall attend, for One Million Five Hundred Thousand Dollars.

REGISTERED CONSOLIDATED STOCK OF THE CITY OF NEW YORK.

Authorized by sections 132 and 134 of the New York City Consolidation Act of 1882, and issued under a resolution of the Board of Estimate and Apportionment adopted March 29, 1889, in pursuance of chapter 79, Laws of 1889, for the payment of the damages awarded by the Commissioners of Estimate, and the expenses, disbursements and charges in the proceedings for laying out public places and parks and parkways in the Twenty-third and Twenty-fourth Wards of the City of New York, and in the adjacent district in Westchester County, and the taking of the lands for the same, under the provisions of chapter 522, Laws of 1884.

This stock will be payable November 1, 1929, and redeemable at the pleasure of the Commissioners of the Sinking Fund on and after November 1, 1909, and bear interest at the rate of two and one-half per cent. per annum, payable semi-annually on the first day of May and November in each year. It will be a charge upon and will be redeemed and paid from the Sinking Fund for the Redemption of the City Debt, and pursuant to section 137 of said Consolidation Act and an ordinance of the Common Council of the City of New York, passed October 2, 1889, and a concurrent resolution adopted by the Commissioners of the Sinking Fund, March 30, 1889, said stock will be

EXEMPT FROM CITY AND COUNTY TAXATION

CORPORATION SALE OF REAL ESTATE.

TWELFTH WARD.

PUBLIC NOTICE IS HEREBY GIVEN THAT the Commissioners of the Sinking Fund of the City of New York, by virtue of the powers vested in them by law, will offer for sale at public auction, on Tuesday, the 7th day of May, 1889, at noon, at the Real Estate Exchange and Auction Room (Limited), Nos. 59 to 65 Liberty street, certain unimproved lots of land belonging to the Corporation of the City of New York, in the Twelfth Ward of said city, on the line of the Old Croton Water Aqueduct, to wit:

Two lots, south side Ninety-ninth street, Block No. 1025, Ward Nos. 37, 38, each 25 feet front and 100 feet 11 inches deep.

Two lots, south side One Hundred and First street, Block No. 1027, Ward Nos. 37, 38, each 25 feet front and 100 feet 11 inches deep.

Two lots, north side One Hundred and First street, Block No. 1028, Ward Nos. 27, 28, each 25 feet front and 100 feet 11 inches deep.

Two lots, south side One Hundred and Second street, Block No. 1028, Ward Nos. 37, 38, each 25 feet front and 100 feet 11 inches deep.

Two lots, north side One Hundred and Second street, Block No. 1029, Ward Nos. 27, 28, each 25 feet front and 100 feet 11 inches deep.

TERMS AND CONDITIONS OF SALE.

The highest bidders will be required to pay ten (10) per cent. of the purchase money and the auctioneer's fee on each lot immediately after the sale; thirty (30) per cent. upon the delivery of the deeds, within thirty days from the date of sale; and the balance, sixty (60) per cent. of the purchase money, or any portion thereof, may remain, at the option of the purchaser, on bond and mortgage, for five years, with interest at the rate of six per centum per annum, payable semi-annually, the mortgages to contain the customary thirty days' interest and ninety days' tax clauses.

The bond and mortgage may be paid off at any time within the term thereof on giving thirty days' notice to the Comptroller, or it may be paid by installments of not less than five hundred dollars, on any day when the interest is due, or on thirty days' notice. The bonds and mortgages will be prepared by the Counsel to the Corporation, and the sum of twelve dollars and fifty cents will be charged for drawing, acknowledging and recording each separate mortgage. If more than one lot of land is included in any mortgage, the whole mortgage must be paid off before any release can be given by the Corporation, as a release of any part of the premises included in a mortgage to the Corporation is forbidden by law.

The Comptroller may, at his option, resell any lot which may be struck off to the highest bidder who may fail to comply with the terms of sale, and the party who may fail to comply therewith will be held liable for any deficiency that may result from any such resale.

The right to reject any bid is reserved.

Lithographic Maps of said real estate may be had at the Comptroller's Office, Stewart Building, No. 280 Broadway, after April 4, 1889.

By order of the Commissioners of the Sinking Fund under a resolution adopted at a meeting of the Board held March 12, 1889.

THEO. W. MYERS,
Comptroller.

CITY OF NEW YORK, FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE, March 26, 1889.

REAL ESTATE RECORDS.

THE ATTENTION OF LAWYERS, REAL Estate Owners, Monetary Institutions engaged in making loans upon real estate, and all who are interested in providing themselves with facilities for reducing the cost of examinations and searches, is invited to these Official Indices of Records, containing all recorded transfers of real estate in the City of New York from 1653 to 1887, prepared under the direction of the Commissioners of Records.

Grants, grantees, suits in equity, insolvents' and Sheriff's sales in 61 volumes, full bound, price \$100 00

The same in 25 volumes, half bound, 50 00

Complete sets, folded, ready for binding, 15 00

Records of Judgments, 25 volumes, bound, 10 00

Orders should be addressed to "Mr. Stephen Angell, Room 23, Stewart Building."

THEODORE W. MYERS,
Comptroller.

AQUEDUCT COMMISSION.

AQUEDUCT COMMISSIONERS' OFFICE,
ROOM 209, STEWART BUILDING, No. 280 BROADWAY,
NEW YORK, April 22, 1889.

NOTICE OF SALE AT PUBLIC AUCTION.

ON MONDAY, APRIL 29, 1889, AT TWO o'clock, P. M., the Aqueduct Commissioners will sell at public auction to the highest bidder, at the office of Division Engineer, George B. Burbank, at Brewster's, New York, the property hereinafter described.

The bidder or bidders to whom said property shall be sold will be required to pay ten per cent. of the amount bid at the time of said sale, and the balance is to be paid within 48 hours thereafter; and the parties to whom any of said property shall be sold will be required to remove the same from the premises within 15 days thereafter, otherwise the Aqueduct Commissioners reserve the right to remove or destroy the same.

The property to be sold is described and located on the Aqueduct Commissioners' map of lands for Double Reservoir I, on the East Branch of the Croton river, in the Town of South East, Putnam County, New York, as follows:

A small house on south end of Parcel No. 4, near Parcel No. 5; one dwelling-house, one tenement-house, one barn, one old building, an old tannery, an old cider-mill, located on Parcel No. 6; one dwelling-house, one barn, one saw and grist mill, on Parcel No. 8; one old dwelling-house on Parcel No. 9; and an old shed on Parcel No. 11.

By order of the Aqueduct Commissioners.

JAMES C. DUANE,
President.
JOHN C. SHEEHAN,
Secretary.

AQUEDUCT COMMISSIONERS' OFFICE,
ROOM 209, STEWART BUILDING, No. 280 BROADWAY,
NEW YORK, April 19, 1889.

TO CONTRACTORS.

BIDS OR PROPOSALS FOR FURNISHING sixteen 3 by 6 foot Sluice Gates, with the necessary lifting machinery, required at the New Croton Gate-house, on Section 1 of the New Aqueduct, as called for in the approved forms of contract and specifications on file in the office of the Aqueduct Commissioners, will be received at this office until 3 o'clock P. M. on WEDNESDAY, MAY 8, 1889, at which place and hour they will be publicly opened by the Aqueduct Commissioners, and the award for doing said work will be made by said Commissioners as soon thereafter as possible.

Blank forms of said contract and specifications therefore, and bids or proposals and proper envelopes for their inclosure, and all other information, can be obtained at the above office of the Aqueduct Commissioners on application to the Secretary.

By order of the Aqueduct Commissioners.
JAMES C. DUANE,
President.
JOHN C. SHEEHAN,
Secretary.

CORPORATION NOTICE.

PUBLIC NOTICE IS HEREBY GIVEN TO THE owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors for examination by all persons interested, viz.:

List 2815, No. 1. Sewer in Avenue St. Nicholas, between One Hundred and Twenty-sixth street and a point 469 feet north of One Hundred and Thirtieth street, with connection to existing sewer in One Hundred and Twenty-sixth street.

List 2853, No. 2. Sewers in Avenue St. Nicholas and Edgecombe road, between One Hundred and Thirtieth and One Hundred and Thirty-sixth streets.

List 2871, No. 3. Paving Manhattan avenue, from One Hundred and Sixteenth street to St. Nicholas avenue, with granite blocks.

List 2908, No. 4. Sewer in Madison avenue, between Ninety-fourth and One Hundred and Third streets, and in One Hundredth street, between Fifth and Madison avenues.

List 2919, No. 5. Paving One Hundred and Forty-eighth street, from Willis to St. Ann's avenue, with granite blocks.

List 2946, No. 6. Regulating, grading, curbing and flagging One Hundred and Eighth street, from Ninth avenue to the Boulevard.

List 2947, No. 7. Flagging both sides of Ninety-eighth street, from the Boulevard to West End avenue.

List 2949, No. 8. Flagging and reflagging both sides of Ninety-first street, from Eighth to Ninth avenue.

List 2950, No. 9. Curbing and reflagging, flagging and reflagging, south side of One Hundred and Thirty-third street, from Lenox to Seventh avenue.

List 2956, No. 10. Paving Ninety-third street, from Fourth to Fifth avenue, with granite blocks.

List 2964, No. 11. Regulating, grading, curbing and flagging Eighty-ninth street, from Tenth avenue to the Boulevard.

List 2965, No. 12. Regulating, grading, curbing and flagging One Hundred and Forty-ninth street, from Eighth avenue to the first new avenue west.

List 2966, No. 13. Regulating, grading, curbing and flagging One Hundred and Thirtieth street, from Eighth to St. Nicholas avenue.

List 2969, No. 14. Sewer in South street, between Roosevelt street and Peck Slip, and connections with existing sewers in Peck Slip and Dover street.

List 2976, No. 15. Sewer in Madison avenue, between One Hundred and Thirtieth and One Hundred and Thirty-sixth streets.

List 2977, No. 16. Sewer in West street, between Murray and Jay streets, connecting with sewer constructed by Department of Docks through Pier 21, with alterations and improvements to existing sewers in Murray, Warren, Chambers, Duane and Jay streets.

List 2988, No. 17. Paving Eighty-third street, from First avenue to Avenue A, with granite blocks.

List 2991, No. 18. Laying crosswalk across One Hundred and Twenty-third street, at the easterly side of Seventh avenue.

List 2994, No. 19. Curbing and flagging both sides of One Hundred and Eighteenth street, from Seventh to Eighth avenue.

List 2996, No. 20. Curbing and reflagging, flagging and reflagging, both sides of One Hundred and Fifteenth street, from Second to Third avenue.

List 2997, No. 21. Curbing and reflagging, flagging and reflagging, south side of One Hundred and Twenty-fifth street, from Second to Third avenue.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. East side of Avenue St. Nicholas, extending half way to Eighth avenue, from One Hundred and Twenty-sixth street to a point distant about 469 feet north of One Hundred and Thirtieth street; west side of Avenue St. Nicholas, from One Hundred and Twenty-eighth street to a point distant about 325 feet north of One Hundred and Thirtieth street; both sides of Academy place; and One Hundred and Twenty-eighth street, from Avenue St. Nicholas to One Hundred and Thirtieth street; and north side of One Hundred and Thirtieth street, opposite Academy place, on lots known as Block 942, Ward Nos. 3 to 8 inclusive.

No. 2. East side of Avenue St. Nicholas, from One Hundred and Thirtieth to One Hundred and Thirty-fifth street; and east side of Edgecombe road, from One Hundred and Thirtieth to One Hundred and Thirty-sixth street.

No. 3. Both sides of Manhattan avenue, from One Hundred and Sixteenth street to St. Nicholas avenue, and to the extent of half the block at the intersecting streets and avenues.

No. 4. Both sides of Madison avenue, from Ninety-fourth to One Hundred and Third street; both sides of Ninety-fifth street, from Park to Madison avenue; both sides of Ninety-sixth and Ninety-seventh streets, from Park to Madison avenue, and both sides of Ninety-seventh, Ninety-eighth, Ninety-ninth, One Hundredth, One Hundred and First and One Hundred and Second streets, from Madison to Fifth avenue.

No. 5. Both sides of One Hundred and Forty-eighth street, from Willis to St. Ann's avenue, and to the extent of half the block at the intersecting avenues.

No. 6. Both sides of One Hundred and Eighth street, from Ninth avenue to the Boulevard, and to the extent of half the block at the intersecting avenues.

No. 7. Both sides of Ninety-eighth street, from the Boulevard to West End avenue.

No. 8. Both sides of Ninety-first street, from Eighth to Ninth avenue.

No. 9. South side of One Hundred and Thirty-third street, from Lenox to Seventh avenue.

No. 10. Both sides of Ninety-third street, from Fourth to Fifth avenue, and to the extent of half the block at the intersecting avenues.

No. 11. Both sides of Eighty-ninth street, from Tenth avenue to the Boulevard, and to the extent of half the block at the intersecting avenues.

No. 12. Both sides of One Hundred and Forty-ninth street, from Eighth avenue to the first new avenue west, and to the extent of half the block at the intersecting avenues.

No. 13. Both sides of One Hundred and Thirtieth street, from Eighth avenue to Avenue St. Nicholas, and to the extent of half the block at the intersecting avenues.

No. 14. Commencing at the northwest corner of Roosevelt and South streets; thence westerly and including the north side of South street to Dover street; thence along and including both sides of Dover street to Pearl street; thence northerly along Pearl street to Duane street; thence westerly along Duane street to Park Row; thence along Park Row and including a part of City Hall Park to Nassau street; thence southerly along Beekman street to William street; thence along William street to Fulton street; thence along Fulton street to Gold street; thence in a diagonal direction to Cliff and Beekman streets; thence along Fulton street to South street; thence along South street to Roosevelt street, the place of beginning.

No. 15. Both sides of Madison avenue, from One Hundred and Thirtieth to One Hundred and Thirty-sixth street, and extending easterly and westerly from Madison avenue on said streets 100 feet.

No. 16. Beginning at the intersection of Murray and West streets; thence along and including both sides of Murray street to Broadway; thence along Broadway, and including a part of City Hall Park, to Worth street; thence along Worth street to Hudson street; thence along Hudson street to Franklin street; thence diagonally to the intersection of Jay and West streets; thence along West street to the place of beginning.

No. 17. Both sides of Eighty-third street, from First avenue to Avenue A, and to the extent of half the block at the intersecting avenues.

No. 18. To the extent of half the block from the easterly intersection of Seventh avenue and One Hundred and Twenty-third street.

No. 19. Both sides of One Hundred and Eighteenth street, from Seventh to Eighth avenue.

No. 20. Both sides of One Hundred and Fifteenth street, from Second to Third avenue.

No. 21. South side of One Hundred and Twenty-fifth street, from Second to Third avenue.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 27 Chambers street, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 27th day of May, 1889.

EDWARD GILON, Chairman,
PATRICK M. HAVERTY,
CHARLES E. WENDT,
EDWARD CAHILL,
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,
No. 27 CHAMBERS STREET,
NEW YORK, April 25, 1889.

PUBLIC NOTICE IS HEREBY GIVEN TO THE owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 2926, No. 1. Sewer in Hamilton place, between One Hundred and Forty-first and One Hundred and Forty-second streets, connecting with present sewer in One Hundred and Forty-second street.

List 2952, No. 2. Sewer in Hamilton place, between One Hundred and Fortieth and One Hundred and Forty-first streets.

List 2972, No. 3. Extension of sewer in One Hundred and Forty-first street, between Boulevard and Tenth avenue, and in Tenth avenue, west side, between One Hundred and Fortieth and One Hundred and Forty-first streets.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of Hamilton place, from One Hundred and Forty-first to One Hundred and Forty-second street.

No. 2. Both sides of Hamilton place, from One Hundred and Fortieth to One Hundred and Forty-first street.

No. 3. Both sides of Hamilton place, from One Hundred and Fortieth to One Hundred and Forty-first street; both sides of One Hundred and Forty-first street, commencing at a point about 100 feet west of Hamilton place and extending to Tenth avenue, and west side of Tenth avenue, from One Hundred and Fortieth to One Hundred and Forty-first street.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 27 Chambers street, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 21st day of May, 1889.

EDWARD GILON, Chairman,
PATRICK M. HAVERTY,
CHAS. E. WENDT,
EDWARD CAHILL,
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,
No. 27 CHAMBERS STREET,
NEW YORK, April 20, 1889.

PUBLIC NOTICE IS HEREBY GIVEN TO THE owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 2543, No. 1. Regulating, grading, curbing and flagging One Hundred and Forty-ninth street, from North Third to Morris avenue.

List 2971, No. 2. Extension of sewer in Fifty-second street, between Third and Lexington avenues, from end of present sewer.

List 2993, No. 3. Laying crosswalks across Audubon avenue, on the north and south sides of One Hundred and Eighty-fifth street.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of One Hundred and Forty-ninth street, from North Third to Morris avenue, and to the extent of half the block at the intersecting avenues.

No. 2. Both sides of Fifty-second street, extending easterly from Lexington avenue about 125 feet.

No. 3. Both sides of One Hundred and Eighty-fifth street, extending half way from Audubon avenue to Tenth avenue, and half way to Eleventh avenue.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 27 Chambers street, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation on the 18th day of May, 1889.

EDWARD GILON, Chairman,
PATRICK M. HAVERTY,
CHAS. E. WENDT,
EDWARD CAHILL,
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,
No. 27 CHAMBERS STREET,
NEW YORK, April 17, 1889.

PUBLIC NOTICE IS HEREBY GIVEN TO THE owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 2640, No. 1. Paving with trap-block One Hundred and Thirty-fifth street, from Seventh to Eighth avenue.

List 2923, No. 2. Sewer in Avenue B, between Second and Third streets.

List 2929, No. 3. Sewer in Lexington avenue, between One Hundred and Sixteenth and One Hundred and Seventeenth streets.

List 2948, No. 4. Flagging north side of Sixty-fifth street, between Eighth and Ninth avenues.

List 2962, No. 5. Fencing vacant lots on the block bounded by One Hundred and Tenth and One Hundred and Twelfth streets, Eighth and Manhattan avenues.

List 2963, No. 6. Fencing vacant lots on the west side of Eighth avenue, between One Hundred and Forty-eighth and One Hundred and Fifty-second streets.

List 2975, No. 7. Alteration and improvement to sewers at Forty-third street and Eleventh avenue.

List 2987, No. 8. Paving Seventy-sixth street, from Avenue A to Avenue B, with trap-blocks.

List 2989, No. 9. Paving One Hundred and Forty-first street, from Seventh to St. Nicholas avenue, with granite-blocks.

List 2992, No. 10. Laying crosswalk across Seventh avenue, at the northerly side of One Hundred and Thirty-fifth street.

List 2995, No. 11. Flagging and reflagging, curbing and reflagging south side of One Hundred and Sixteenth street, between Second and Third avenues.

List 2998, No. 12. Flagging and reflagging sidewalk at northeast corner of Seventh avenue and One Hundred and Twenty-first street.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of One Hundred and Thirty-fifth street, from Seventh to Eighth avenue, and to the extent of half the block at the intersecting avenues.

No. 2. Both sides of Avenue B, from Second to Third street.

No. 3. Both sides of Lexington avenue, from One Hundred and Sixteenth to One Hundred and Seventeenth street.

No. 4. North side of Sixty-fifth street, from Eighth to Ninth avenue.

No. 5. Block bounded by One Hundred and Tenth and One Hundred and Eleventh streets, Eighth and Manhattan avenues, and the southeast corner of Manhattan avenue and southwest corner of Eighth avenue and One Hundred and Eleventh street.

No. 6. West side of Eighth avenue, from One Hundred and Forty-eighth to One Hundred and Fiftieth street.

No. 7. Both sides of Forty-third street, from Tenth to Eleventh avenue, and both sides of Eleventh avenue, from Forty-second to Forty-fourth street.

No. 8. Both sides of Seventy-sixth street, from Avenue A to Avenue B, and to the extent of half the block at the intersecting avenues.

No. 9. Both sides of One Hundred and Forty-first street, from Seventh to St. Nicholas avenue, and to the extent of half the block at the intersecting avenues.

No. 10. To the extent of one-half the block from the northerly side of Seventh avenue and One Hundred and Thirty-fifth street.

No. 11. South side of One Hundred and Sixteenth street, from Second to Third avenue.

No. 12. Northeast corner of Seventh avenue and One Hundred and Twenty-first street.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 27 Chambers street, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 17th day of May, 1889.

EDWARD GILON, Chairman,
PATRICK M. HAVERTY,
CHAS. E. WENDT,
EDWARD CAHILL,
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,
No. 27 CHAMBERS STREET,
NEW YORK, April 16, 1889.

DEPARTMENT OF DOCKS.

DEPARTMENT OF DOCKS,
PIER "A," NORTH RIVER.

TO CONTRACTORS.

(No. 303.)

PROPOSALS FOR ESTIMATES FOR REPAIRING THE CRIB-BULKHEAD AT THE EAST SEVENTEENTH STREET YARD OF THE DEPARTMENT OF DOCKS, ON THE EAST RIVER.

ESTIMATES FOR REPAIRING THE CRIB- bulkhead along the easterly side of, and along the northerly side of the East Seventeenth Street Yard, East river, will be received by the Board of Commissioners at the head of the Department of Docks, at the office of said Department, on Pier "A," foot of Battery place, North river, in the City of New York, until 12 o'clock M. of

FRIDAY, MAY 10, 1889,

at which time and place the estimates will be publicly opened by the head of said Department. The award of the contract, if awarded, will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall furnish the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which it relates.

The bidder to whom the award is made shall give security for the faithful performance of the contract in the manner prescribed and required by ordinance, in the sum of Two Thousand Four Hundred Dollars.

The Engineer's estimate of the nature, quantities and extent of the work is as follows:

CLASS I.—REPAIRS TO CRIB-BULKHEAD.

1. New Cribwork complete, including all timbers and iron-work, Backing-logs, Earth and Stone-filling, Box-drains, Mooring-posts, Fenders and Chocks, etc., measured from the top of the old facing timbers, where there is to be no flooring, and from the top of the flooring to the under side of the backing-log, and from front of facing timber to rear of longitudinal ties, about 33,083 cubic feet.

2. Yellow Pine Timber, 12" x 12"..... 8,388
" 10" x 10"..... 5,747

Total..... 14,135

NOTE.—The above quantity of timber is inclusive of extra lengths required for scarfs, laps, etc., but is exclusive of waste.

3. White Pine, Norway Pine, Yellow Pine, Cypress or Spruce Piles..... 144
(It is expected that these piles will have to be from about 35 feet to about 40 feet long.)

4. Bed Logs, about..... 1,001 linear feet.
5. Floor Logs, about..... 4,338 "

6. Excavation of Old Crib

complain of the above statement of quantities, nor assert that there was any misunderstanding in regard to the nature or amount of the work to be done.

(2) Bidders will be required to complete the entire work to the satisfaction of the Department of Docks, and in substantial accordance with the specifications of the contract and the plans therein referred to. No extra compensation, beyond the amount payable for each class of the work before mentioned, which shall be actually performed, at the prices therefor, to be specified by the lowest bidder, shall be due or payable for the entire work.

The work to be done under this contract is to be commenced within five days after the date of the contract, and all the work contracted for is to be fully completed on or before the third day of September, 1889, and the damages to be paid by the Contractor for each day that the contract may be unfulfilled after the time fixed for the fulfillment thereof has expired, are, by a clause in the contract, determined, fixed and liquidated at Fifty Dollars per day.

All the old material taken from the structure to be removed under the contract will be relinquished to the Contractor, and bidders must estimate the value of such material when considering the price for which they will do the work under the contract.

Bidders will state in their estimates a price for the whole of the work to be done in each class, in conformity with the approved form of agreement and the specifications therein set forth, by which price the bids will be tested. These prices are to cover all expenses of every kind involved in or incidental to the fulfillment of the contract, including any claim that may arise through delay, from any cause, in the performing of the work thereunder. The award of the contract, if awarded, will be made to the bidder who is the lowest for doing the whole work comprised in both classes, and whose estimate is regular in all respects.

Bidders will distinctly write out, both in words and in figures, the amount of their estimates for doing each class of the work.

The person or persons to whom the contract may be awarded will be required to attend at this office with the sureties offered by him or them, and execute the contract within five days from the date of the service of a notice to that effect; and in case of failure or neglect so to do, he or they will be considered as having abandoned it, and as in default of the Corporation, and the contract will be readvertised and relet, and so on until it is accepted and executed.

Bidders are required to state in their estimates their names and places of residence; the names of all persons interested with them therein; and if no other person be so interested, the estimate shall distinctly state the fact; also, that the estimate is made without any connection with any other person making an estimate for the same work, and that it is in all respects fair, and without collusion or fraud; and also, that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof, or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof; which estimate must be verified by the oath, in writing, of the party making the estimate, that the several matters stated therein are in all respects true. *Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.*

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, on its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which said person or persons would be entitled on its completion, and that which said Corporation may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount, in each case, to be calculated upon the estimated amount of the work to be done in each class, by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety and otherwise; and that he has offered himself as surety in good faith, and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered will be subject to approval by the Comptroller of the City of New York after the award is made and prior to the signing of the contract.

No estimate will be received or considered unless accompanied by either 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, to the amount of five per centum of the amount of security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Bidders are informed that no deviation from the specifications will be allowed, unless under the written instructions of the Engineer-in-Chief.

No estimate will be accepted from or contract awarded to, any person who is in arrears to the Corporation, upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The right to decline all the estimates is reserved, if deemed for the interest of the Corporation of the City of New York.

Bidders are requested, in making their bids or estimates to use the blank prepared for that purpose by the Department, a copy of which, together with the form of the agreement, including specifications, and showing the manner of payment for the work, can be obtained upon application therefor at the office of the Department.

EDWIN A. POST,
JAMES MATTHEWS,
CHARLES A. SILLIMAN,
Commissioners of the Department of Docks.
Dated New York, April 26, 1889.

DEPARTMENT OF DOCKS,
PIER "A," NORTH RIVER.)

TO CONTRACTORS.

(No. 302.)

PROPOSALS FOR ESTIMATES FOR FURNISHING SAWED SPRUCE TIMBER.

ESTIMATES FOR FURNISHING SAWED Spruce Timber will be received by the Board of Commissioners at the head of the Department of Docks, at the office of said Department, on Pier "A," foot of Battery park, North river, in the City of New York, until 12 o'clock M. of

FRIDAY, MAY 10, 1889,

at which time and place the estimates will be publicly opened by the head of said Department. The award of the contract, if awarded, will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall furnish the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which it relates.

The bidder to whom the award is made shall give security for the faithful performance of the contract, in the manner prescribed and required by ordinance, in the sum of One Thousand Two Hundred Dollars.

The Engineer's estimate of the quantities is as follows:

	Feet B. M.
Spruce Timber 12" x 12", 334 pieces, 20 feet 6 inches long.....	82,164
Spruce Timber 12" x 12", 125 pieces, 24 feet long " 8" x 8", 334 " 29 ".....	36,000
Spruce Timber 4" x 12", about 2,000 linear feet in 15, 18, 2 and 24 feet lengths, about.....	51,659
Spruce Timber 4" x 12", about 835 linear feet in 12 feet lengths and upwards, about.....	8,000
Spruce Timber 4" x 12", about 12,000 linear feet in 15, 18, 21 and 24 feet lengths, about.....	3,340
Spruce Timber 4" x 10", about 1,900 linear feet in 12 feet lengths and upwards, about.....	40,000
Total Spruce Timber, about.....	6,333
	227,496

N. B.—Bidders are required to submit their estimates upon the following express conditions, which shall apply to and become a part of every estimate received:

(1.) Bidders must satisfy themselves, by personal examination of the locations of the proposed deliveries of the material, and by such other means as they may prefer, as to the accuracy of the foregoing Engineer's estimate, and shall not, at any time after the submission of an estimate, dispute or complain of the above statement of quantities, nor assert that there was any misunderstanding in regard to the nature or amount of the work to be done.

(2.) Bidders will be required to complete the entire work to the satisfaction of the Department of Docks, and in substantial accordance with the specifications of the contract, and the plans therein referred to. No extra compensation, beyond the amount payable for the work before mentioned, which shall be actually performed, at the price therefor to be specified by the lowest bidder, shall be due or payable for the entire work.

At least 50,000 feet, board measure, of the timber is to be delivered within sixty days, and days excepted, from the date of the contract, and at the time to be delivered under this contract is to be delivered on or before the 31 day of September, 1889, and the damages to be paid by the contractor for each day that the contract may be unfulfilled after the time fixed for the fulfillment thereof has expired, are, by a clause in the contract determined, fixed, and liquidated at Fifty Dollars per day.

Bidders will state in their estimates a price per thousand feet board measure, for the spruce timber to be delivered in conformity with the approved form of agreement and the specifications therein set forth, by which price the bids will be tested. This price is to cover all expenses of every kind involved in or incidental to the fulfillment of the contract, including any claim that may arise through delay, from any cause, in the receiving of the material by the Department of Docks.

Bidders will distinctly write out, both in words and in figures, the amount of their estimates for furnishing this material.

The person or persons to whom the contract may be awarded will be required to attend at this office with the sureties offered by him or them, and execute the contract within five days from the date of the service of a notice to that effect; and in case of failure or neglect so to do, he or they will be considered as having abandoned it, and as in default of the Corporation; and the contract will be readvertised and relet, and so on until it is accepted and executed.

Bidders are required to state in their estimates their names and places of residence; the names of all persons interested with them therein; and if no other person be so interested, the estimate shall distinctly state the fact; also, that the estimate is made without any connection with any other person making an estimate for the same work, and that it is in all respects fair, and without collusion or fraud; and also, that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof, or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof; which estimate must be verified by the oath, in writing, of the party making the estimate, that the several matters stated therein are in all respects true. *Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.*

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, upon its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which said person or persons would be entitled upon its completion, and that which said Corporation may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount, in each case, to be calculated upon the estimated amount of the material to be delivered, by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety and otherwise; and that he has offered himself as surety in good faith, and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered will be subject to approval by the Comptroller of the City of New York after the award is made and prior to the signing of the contract.

No estimate will be received or considered unless accompanied by either 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, to the amount of five per centum of the amount of security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Bidders are informed that no deviation from the specifications will be allowed, unless under the written instructions of the Engineer-in-Chief.

No estimate will be accepted from or contract awarded to, any person who is in arrears to the Corporation, upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The right to decline all the estimates is reserved, if deemed for the interest of the Corporation of the City of New York.

Bidders are requested, in making their bids or estimates, to use the blank prepared for that purpose by the Department, a copy of which, together with the form of the agreement, including specifications, and showing the manner of payment for the work, can be obtained upon application therefor at the office of the Department.

EDWIN A. POST,
JAMES MATTHEWS,
CHARLES A. SILLIMAN,
Commissioners of the Department of Docks.
Dated New York, April 26, 1889.

DEPARTMENT OF PUBLIC PARKS.

CITY OF NEW YORK, DEPARTMENT OF PUBLIC PARKS,
Nos. 49 AND 51 CHAMBERS STREET,
April 23, 1889.

NOTICE IS HEREBY GIVEN THAT THE Commissioners of the Department of Public Parks, in the City of New York, will, on the 8th day of May, 1889, at 2 o'clock P. M., at their office in the Emigrant Savings Bank Building, Nos. 49 and 51 Chambers street, in said city, hear and consider all statements, objections and evidence that may then and there be offered in reference to changing, fixing and establishing the grades of the avenues, streets and roads in that part of the Twenty-third and Twenty-fourth Wards lying between the Spuyten Duyvil and Port Morris Railroad, Jerome and Boscobel avenues, Elliott street, Sheridan avenue, East One Hundred and Sixty-fifth street, Mott avenue, Juliet street and Walton avenue; also of River avenue, from Spuyten Duyvil and Port Morris Railroad to East One Hundred and Forty-fourth street.

The general character and extent of the contemplated change consist in changing, fixing and establishing the grades of the avenues, streets and roads in the said part of the Twenty-third and Twenty-fourth Wards, in pursuance of the provisions of chapter 721 of the Laws of 1887.

A map showing the proposed change is on exhibition in said office.

J. HAMPDEN ROBB,
M. C. D. BORDEN,
WALDO HUTCHINS,
STEVENSON TOWLE,
Commissioners of Public Parks.

DEPARTMENT OF PUBLIC PARKS,
Nos. 49 AND 51 CHAMBERS STREET,
NEW YORK, April 23, 1889.

NOTICE IS HEREBY GIVEN THAT THE Commissioners of the Department of Public Parks, in the City of New York, will, at their office, Nos. 49 and 51 Chambers street, in the Emigrants' Savings Bank Building, in said city, on Wednesday, May 8, 1889, at 2 o'clock P. M., hear and consider all statements, objections and evidence that may then and there be offered in reference to changing, fixing and establishing the grades of the avenues, streets and roads in that portion of the "Boscobel District," Twenty-fourth Ward, lying between Aqueduct, Tremont and Jerome avenues and Featherbed lane.

The general character and extent of the contemplated change consist in changing, fixing and establishing the grades of the avenues, streets and roads in the said part of the "Boscobel District," in pursuance of the provisions of chapter 721 of the Laws of 1887.

A map showing the proposed change is on exhibition in said office.

J. HAMPDEN ROBB,
M. C. D. BORDEN,
WALDO HUTCHINS,
STEVENSON TOWLE,
Commissioners of Public Parks.

DEPARTMENT OF PUBLIC PARKS,
Nos. 49 AND 51 CHAMBERS STREET,
NEW YORK, April 23, 1889.

NOTICE IS HEREBY GIVEN THAT THE Commissioners of the Department of Public Parks, in the City of New York, will, on the 8th day of May, 1889, at 2 o'clock P. M., at their office, in the Emigrants' Savings Bank Building, Nos. 49 and 51 Chambers street, in said city, hear and consider all statements, objections and evidence that may then and there be offered in reference to a proposed change in the classification of

1st. Undercliff avenue, from Washington Bridge north to Sedgwick avenue, in the Twenty-fourth Ward, from second to first class.

2d. Tiffany street, from Intervale avenue to Lane avenue, in the Twenty-third Ward, from third to first class, in pursuance of the provisions of chapter 721 of the Laws of 1887.

The contemplated change consists in changing the class of said streets as above indicated.

A map showing the proposed change is on exhibition in said office.

J. HAMPDEN ROBB,
M. C. D. BORDEN,
WALDO HUTCHINS,
STEVENSON TOWLE,
Commissioners of Public Parks.

DEPARTMENT OF PUBLIC PARKS,
Nos. 49 AND 51 CHAMBERS STREET,
NEW YORK, April 23, 1889.

NOTICE.

PARTIES INTERESTED IN THE MATTER OF the grades of the following-named streets in the Twenty-fourth Ward are requested to call at the office of the Department of Public Parks, within ten days from date, and examine maps showing such grades as proposed to be established, and make known their views in relation thereto.

Tiffany street, from Lane to Wetmore avenue.
Barretto street, from Lane to Wetmore avenue.
Hunt's Point road, from Lane avenue to Lafayette road.

Spofford street, from Tiffany street to Hunt's Point road.

Lafayette road, from Tiffany street to Hunt's Point road.

Lane avenue, from Tiffany street, to Hunt's Point road.

Wetmore avenue, from Tiffany street, to Barretto street, in the Twenty-third Ward.

By order of the Department of Public Parks.

CHARLES D. F. BURNS,
Secretary.

DEPARTMENT OF PUBLIC PARKS,
Nos. 49 AND 51 CHAMBERS STREET,
NEW YORK, April 15, 1889.

TO CONTRACTORS.

SEALED BIDS OR ESTIMATES FOR THE following-mentioned work, with the title of the work and the name of the bidder indorsed thereon, will be received by the Department of Public Parks, at its offices, Nos. 49 and 51 Chambers street, until 2 o'clock P. M. on Friday, April 26, 1889:

MAKING, FURNISHING AND DELIVERING ONE THOUSAND SETTEES FOR THE PARKS.

Bidders will be required to complete the entire work to the satisfaction of the Department of Public Parks, and in substantial accordance with the specifications for the work and the plans therein referred to. No extra compensation beyond the amount payable for the work before mentioned, which shall be actually performed at the prices therefor, to be specified by the lowest bidder, shall be due or payable for the entire work.

The person making any bid or estimate must furnish the same, inclosed in a sealed envelope, to the head of said Department, at his office, on or before the day and hour above mentioned.

The envelope must be indorsed with the name or names of the person presenting the same, the date of its

presentation, and a statement of the work to which it relates.

The estimates received will be publicly opened by the head of the said Department at the place and hour last above mentioned and read.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud; and that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount, in each case, to be calculated upon the estimated amount of work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; and that he has offered himself as surety in good faith, and with the intention to execute the bond required by section 27 of chapter 8 of the Revised Ordinances of the City of New York, if the contract shall be awarded to the person or persons for whom he consents to become surety. The adequacy and sufficiency of the security offered to be approved by the Comptroller of the City of New York.

No bid or estimate will be received or considered unless accompanied by either a certified check upon one of the National or State banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimates, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

N. B.—The prices must be written in the estimate and also stated in figures. Permission will not be given for the withdrawal of any bid or estimate. No bid will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The amount in which security will be required for the performance of the contract is four thousand dollars.

The Department of Public Parks reserves the right to reject any or all the bids received in response to this advertisement if it should deem it for the interest of the City so to do, and to readvertise until satisfactory bids or proposals shall be received. But the contract when awarded will be awarded to the lowest bidder.

Blank forms for proposals and forms of the contract which the successful bidder will be required to execute, can be had at the office of the Secretary, and the plans can be seen and information relative to them can be had, at the office of the Department, Nos. 49 and 51 Chambers street.

J. HAMPDEN ROBB,
M. C. D. BORDEN,
WALDO HUTCHINS,
STEVENSON TOWLE,
Commissioners of Public Parks.

DEPARTMENT OF PUBLIC PARKS,
Nos. 49 AND 51 CHAMBERS STREET,
NEW YORK, April 12, 1889.

TO CONTRACTORS.

SEALED BIDS OR ESTIMATES FOR EACH OF the following-mentioned work, with the title of the work and the name of the bidder indorsed thereon, also the number of the work as in the advertisement, will be received by the Department of Public Parks, at its offices, Nos. 49 and 51 Chambers street, until 2 o'clock P. M. on Friday, April 26, 1889:

No. 1. For excavating and removing all earth and rock; for furnishing the materials and building a Main Drain, with the Subsidiary drainage connected therewith; furnishing the materials and completely executing all the mason work and plastering of every kind, all iron and other metal work of every kind, all carpenter and joiner work, painting and glazing of every kind, all plumbing work, all steam-heating work, all roofing, slating and skylight work, all floor and other tiling work, and all other work of every description required to fully complete the North Pavilions and Court; together with all alteration, renewal, refitting and repair in the Roof and other portions of the Old Building, and all alteration, repair, refitting, equipping and furnishing for the Art Schools and other purposes of the Basement of said building of the METROPOLITAN MUSEUM OF ART, in the Central Park.

No. 2. For furnishing all the labor and materials and erecting and delivering wholly complete the entire installation of an Incandescent Electric Light Plant required for the Metropolitan Museum of Art in the Central Park.

Special notice is given that the works must be bid for separately, that is, more than one work must not be included in the same estimate or envelope.

NUMBER 1, ABOVE MENTIONED.

Bidders will be required to state in their proposals ONE PRICE OR SUM for which they will execute the ENTIRE WORK, including the furnishing of all materials, labor and transportation; all implements, tools, apparatus and appliances of every description necessary to complete, in every particular, the whole of the work as set forth in the plans, details, and in the schedule, specification, and form of agreement.

The time allowed to complete the whole work will be TWO HUNDRED AND TWENTY days, and the damages to be paid by the Contractor for each day that the contract, or any part thereof, may be unfulfilled after the time fixed for the completion thereof has expired, are, by a clause in the contract, fixed and liquidated at TWENTY dollars per day.

NUMBER 2, ABOVE MENTIONED.

Bidders will be required to state in their proposals ONE PRICE OR SUM for which they will execute the ENTIRE WORK, including the furnishing of all materials, labor and transportation, all implements, tools, apparatus and appliances of every description

should the person or persons to whom the contract
be awarded neglect or refuse to accept the contract
within five days after written notice that the same has

been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet, as provided by law.

The quality of the articles, supplies, goods, wares, and merchandise must conform in every respect to the samples of the same on exhibition at the office of the said Department. Bidders are cautioned to examine the specifications for particulars of the articles, etc., required before making their estimates.

Bidders will state the price for each article, by which the bids will be tested.

Bidders will write out the amount of their estimate in addition to inserting the same in figures.

Payment will be made by a requisition on the Comptroller, in accordance with the terms of the contract, or from time to time, as the Commissioners may determine.

The form of the contract, including specifications, showing the manner of payment, will be furnished at the office of the Department, and bidders are cautioned to examine each and all of its provisions carefully, as the Board of Public Charities and Correction will insist upon its absolute enforcement in every particular.

Dated NEW YORK, April 22, 1889.

THOMAS S. BRENNAN, President,
HENRY H. PORTER, Commissioner,
CHARLES E. SIMMONS, M. D., Commissioner,
Public Charities and Correction.

TO CONTRACTORS.

PROPOSALS FOR PLUMBING AT CENTRAL ISLIP, L. I.

SEALED BIDS OR ESTIMATES FOR THE aforesaid work and materials, in accordance with the specifications and plans, will be received at the office of the Department of Public Charities and Correction, No. 66 Third Avenue, in the City of New York, until 9.30 o'clock A. M. of Friday, May 3, 1889. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Plumbing at Central Islip, L. I., and with his or their name or names, and the date of presentation, to the head of said Department, at the said office, on or before the day and hour above named, at which time and place the bids or estimates received will be publicly opened by the President of said Department and read.

THE BOARD OF PUBLIC CHARITIES AND CORRECTION reserves the right to reject all bids or estimates if deemed to be for the public interest, as provided in SECTION 64, CHAPTER 410, LAWS OF 1882.

No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, each in the penal amount of **SIX THOUSAND (\$6,000) DOLLARS**.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; 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 Common Council, Head of a Department, Chief of a Bureau, Deputy thereof, or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the VERIFICATION be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion, and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; and that he has offered himself as surety in good faith and with the intention to execute the bond required by section 12 of chapter 7 of the Revised Ordinances of the City of New York, 1880, if the contract shall be awarded to the person or persons for whom he consents to become surety. The adequacy and sufficiency of this security shall, in addition to the justification and acknowledgment, be approved by the Comptroller of the City of New York.

No bid or estimate will be received or considered unless accompanied by either 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, to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be included in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept, but do not execute the contract and provide such proper security as has been heretofore stated to be requisite, he or they shall be considered as having abandoned it, and as in default to the Corporation; and the contract will be readvertised and relet as provided by law.

Bidders will write out the amount of their estimate in addition to inserting the same in figures.

Payment will be made by a requisition on the Comptroller, in accordance with the terms of the contract, or from time to time, as the Commissioners may determine.

The form of the contract, including specifications, showing the manner of payment, will be furnished at the office of the Department; and bidders are cautioned

to examine each and all of its provisions carefully, as the Board of Public Charities and Correction will insist upon its absolute enforcement in every particular.

Dated NEW YORK, April 19, 1889.

THOMAS S. BRENNAN, President,
HENRY H. PORTER, Commissioner,
CHARLES E. SIMMONS, M. D., Commissioner,
Public Charities and Correction.

TO CONTRACTORS.

PROPOSALS FOR MATERIALS AND WORK REQUIRED FOR PUTTING IN HOT AIR FURNACES, FLUES AND OTHER WORK AT BUILDING FOR ACCOMMODATION OF ATTENDANTS AT LUNATIC ASYLUM, BLACKWELL'S ISLAND, N. Y.

SEALED BIDS OR ESTIMATES FOR THE aforesaid work and materials, in accordance with the specifications and plans, will be received at the office of the Department of Public Charities and Correction, No. 66 Third Avenue, in the City of New York, until 9.30 o'clock A. M. of Friday, May 3, 1889. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Hot Air Furnaces, etc., for Attendants' Building, Lunatic Asylum," and with his or their name or names, and the date of presentation, to the head of said Department, at the said office, on or before the day and hour above named, at which time and place the bids or estimates received will be publicly opened by the President of said Department and read.

THE BOARD OF PUBLIC CHARITIES AND CORRECTION reserves the right to reject all bids or estimates if deemed to be for the public interest, as provided in SECTION 64, CHAPTER 410, LAWS OF 1882. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, each in the penal amount of **ONE THOUSAND (\$1,000) DOLLARS**.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; 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 Common Council, Head of a Department, Chief of a Bureau, Deputy thereof, or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the VERIFICATION be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion, and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities, as bail, surety, or otherwise; and that he has offered himself as surety in good faith and with the intention to execute the bond required by section 12 of chapter 7 of the Revised Ordinances of the City of New York, 1880, if the contract shall be awarded to the person or persons for whom he consents to become surety. The adequacy and sufficiency of this security shall, in addition to the justification and acknowledgment, be approved by the Comptroller of the City of New York.

No bid or estimate will be received or considered unless accompanied by either a certified check upon one of the National or State banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five per centum of the amount of security required for the faithful performance of the contract. Such check or money must not be included in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept, but do not execute the contract and provide such proper security as has been heretofore stated to be requisite, he or they shall be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

Bidders will write out the amount of their estimate in addition to inserting the same in figures.

Payment will be made by a requisition on the Comptroller, in accordance with the terms of the contract, or from time to time as the Commissioners may determine.

The form of the contract, including specifications, showing the manner of payment, will be furnished at the office of the Department, and bidders are cautioned to examine each and all of its provisions carefully, as the Board of Public Charities and Correction will insist upon its absolute enforcement in every particular.

Dated NEW YORK, April 19, 1889.

THOMAS S. BRENNAN, President,
HENRY H. PORTER, Commissioner,
CHARLES E. SIMMONS, M. D., Commissioner,
Public Charities and Correction.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,
No. 66 THIRD AVENUE,
NEW YORK, April 24, 1889.

IN ACCORDANCE WITH AN ORDINANCE of the Common Council, "In relation to the burial of strangers or unknown persons who may die in any of the public institutions of the City of New York," the Commissioners of Public Charities and Correction report as follows:

At Morgue, Bellevue Hospital, from No. 197 Worth street—Unknown man, aged about 40 years; 5 feet 7½

inches high; dark hair, moustache and beard. Had on blue coat, dark vest, gray pants, gray striped shirt, black felt hat.

Unknown man, from Pier "A," North river; 5 feet 8 inches high. Body about six months in water. Had on black coat and vest, gray striped pants, gray woolen shirt, white cotton jumper.

At Homoeopathic Hospital, Ward's Island—Dennis Carroll, Jr., aged 24 years; 5 feet 10 inches high; black hair and eyes. Had on when admitted black coat and vest, brown striped pants, laced shoes, black felt hat.

Ellen Mooney, aged 23 years; 5 feet 5 inches high; blue eyes, brown hair. Had on when admitted blue merino skirt and waist, black worsted sacque, buttoned gaiters, brown felt hat.

At Randall's Island Hospital—August Fredericks, aged 43 years; 5 feet 8 inches high; blue eyes, brown hair.

Nothing known of their friends or relatives.

By order,

G. F. BRITTON,
Secretary.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,
No. 66 THIRD AVENUE,
NEW YORK, April 17, 1889.

IN ACCORDANCE WITH AN ORDINANCE of the Common Council, "In relation to the burial of strangers or unknown persons who may die in any of the public institutions of the City of New York," the Commissioners of Public Charities and Correction report as follows:

At Homoeopathic Hospital, Ward's Island—John B. Smith, aged 58 years; 5 feet 6 inches high; blue eyes, gray hair. Had on when admitted black coat, black and white check vest, gray jean pants, brogan shoes, black derby hat.

At New York City Asylum for the Insane, Ward's Island—Charles Vurch, aged 50 years; gray eyes, black hair.

At Randall's Island Hospital—William Lambert, aged 19 years; 5 feet 4 inches high; blue eyes, auburn hair.

Nothing known of their friends or relatives.

By order,

G. F. BRITTON,
Secretary.

BOARD OF EDUCATION.

SEALED PROPOSALS WILL BE RECEIVED by the Board of School Trustees for the Fifth Ward, at the Hall of the Board of Education, No. 146 Grand street, until Tuesday, May 7, and until 10 o'clock on said day, for Repairs at Grammar School No. 44, Sanitary Work at Primary School No. 11, and New Furniture for Grammar School No. 44.

Plans and specifications may be seen, and blank proposals obtained, at the office of the Superintendent of School Buildings, No. 146 Grand street, third floor.

The Trustees reserve the right to reject any or all of the proposals submitted.

The party submitting a proposal, and the parties proposing to become sureties, must each write his name and place of residence on said proposal.

Two responsible and approved sureties, residents of this city, are required in all cases.

No proposal will be considered from persons whose character and antecedent dealings with the Board of Education render their responsibility doubtful.

WM. H. NAETHING,
JOHN C. HUSER,
HENRY C. WEST,
SAMUEL W. WILEY,
HENRY W. CORDIS,
School Trustees, Fifth Ward.

Dated NEW YORK, April 24, 1889.

SEALED PROPOSALS WILL BE RECEIVED at the Hall of the Board of Education, No. 146 Grand street, by the School Trustees of the Eleventh Ward, until 9.30 o'clock A. M., on Thursday, May 2, 1889, for New Desks and Seats required for Grammar School Building No. 88.

Plans and specifications may be seen, and blank proposals obtained, at the office of the Superintendent of School Buildings, No. 146 Grand street, third floor.

The Trustees reserve the right to reject any or all of the proposals submitted.

The party submitting a proposal, and the parties proposing to become sureties, must each write his name and place of residence on said proposal.

Two responsible and approved sureties, residents of this city, are required in all cases.

No proposal will be considered from persons whose character and antecedent dealings with the Board of Education render their responsibility doubtful.

WM. A. GRAHAM,
M. L. PHILLIPS,
LOUIS S. GOEBLE,
PATRICK J. MCCUE,
GEORGE MUNDORFF,
Board of School Trustees, Eleventh Ward.

Dated NEW YORK, April 19, 1889.

SEALED PROPOSALS WILL BE RECEIVED at the Hall of the Board of Education, No. 146 Grand street, by the School Trustees of the Fourteenth Ward, until 10 o'clock A. M., on Thursday, May 2, 1889, for New Furniture required for Grammar School Buildings Nos. 21 and 30.

Plans and specifications may be seen, and blank proposals obtained, at the office of the Superintendent of School Buildings, No. 146 Grand street, third floor.

The Trustees reserve the right to reject any or all of the proposals submitted.

The party submitting a proposal, and the parties proposing to become sureties, must each write his name and place of residence on said proposal.

Two responsible and approved sureties, residents of this city, are required in all cases.

No proposal will be considered from persons whose character and antecedent dealings with the Board of Education render their responsibility doubtful.

JOHN A. O'BRIEN, Chairman,
FRANKLIN SMITH, M. D., Secretary,
Board of School Trustees, Fourteenth Ward.

Dated NEW YORK, April 17, 1889.

COMMENCING MONDAY, JANUARY 14, 1889, a course of free lectures on the Natural Sciences and kindred subjects, for the benefit of workmen and working women, will be delivered in the following schools:

Grammar School No. 27, Nos. 208 and 210 East Forty-second street.

Grammar School No. 42, No. 30 Allen street.

Grammar School No. 51, No. 523 West Forty-fourth street.

Grammar School No. 67, Nos. 223 to 229 West Forty-first street.

Grammar School No. 82, corner of Seventieth street and First Avenue.

Grammar School No. 83, No. 216 East One Hundred and Tenth street.

The lectures will begin at eight o'clock P. M., and will be given every Monday and Thursday evening during the months of January, February, March and April, 1889.

DE WITT J. SELIGMAN,
Chairman,
GRACE H. DODGE,
MILES M. O'BRIEN,
W. J. WELCH,
R. GUGGENHEIMER,
Committee on Evening Schools.

ARTHUR McMULLIN,
Clerk.

SUPREME COURT.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to that part of EAST ONE HUNDRED AND FORTY-SECOND STREET (although not yet named by proper authority) extending from Rider Avenue to St. Ann's Avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

NOTICE IS HEREBY GIVEN THAT THE BILL of the costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at the Chambers thereof, in the County Court-house at the City Hall, in the City of New York, on the ninth day of May, 1889, at 10½ o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Department of Public Works, there to remain for and during the space of ten days.

Dated NEW YORK, April 25, 1889.

JAMES J. TRAYNOR,
PETER MCGINNESS,
MAX MOSES,
Commissioners.

CARROLL BERRY, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to certain lands required for a public park or parks, square or squares, place or places, known as the High Bridge Park, in the Twelfth Ward of the City of New York.

PURSUANT TO THE STATUTES IN SUCH cases, made and provided, the Mayor, Aldermen and Commonality of the City of New York hereby give notice that the Counsel to the Corporation will make application to a Special Term of the Supreme Court of the State of New York, to be held at the Chambers of said Court, in the County Court-house in the City of New York, on the 23d day of May, 1889, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of a Commissioner of Estimate and Assessment in the above-entitled proceeding, in the place and stead of Grover Cleveland, who declines to serve.

Dated NEW YORK, April 23, 1889.

HENRY R. BEEKMAN,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Education by the Counsel to the Corporation of the City of New York, relative to acquiring title by the Mayor, Aldermen and Commonality of the City of New York, to certain lands on the northerly side of Forty-first street, between Seventh and Eighth Avenues, in the Twenty-second Ward of said city, duly selected and approved by said Board as a site for school purposes, under and in pursuance of the provisions of chapter 191 of the Laws of 1888.

WE, THE UNDERSIGNED, COMMISSIONERS of Estimate in the above-entitled matter, appointed pursuant to the provisions of chapter 191 of the Laws of 1888, hereby give notice to the owner or owners, lessee or lessees, parties and persons, respectively entitled to or interested in the lands, tenements, hereditaments and premises, title to which is sought to be acquired in this proceeding, and to all others whom it may concern, to wit:

First—That we have completed our estimate of the loss and damage to the respective owners, lessees, parties and persons interested in the lands or premises affected by this proceeding, or having any interest therein, and have filed a true report or transcript of such estimate in the office of the Board of Education for the inspection of whomsoever it may concern.

Second—That all parties or persons whose rights may be affected by the said estimate and who may object to the same or any part thereof, may, within thirty days after the first publication of this notice, file their objections to such estimate in writing with us at our office, Room No. 17, on the second floor of No. 45 William street, in the said city, as provided by section four of chapter 191 of the Laws of 1888, and that we, the said Commissioners, will hear parties so objecting at our said office on the fourth day of June, 1889, at 2 o'clock P. M., and upon such subsequent days as may be found necessary.

Third—That our report herein will be presented to the Supreme Court of the State of New York at a special term thereof, to be held at Chambers in the County Court-house in the City of New York, on the 7th day of June, 1889, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated NEW YORK, April 23, 1889.

NICHOLAS R. O'CONNOR,
LORENZ ZELLER,
EDWARD MCCUE,
Commissioners.

LAMONT McLOUGHLIN, Clerk.

In the matter of the application of the Board of Education by the Counsel to the Corporation of the City of New York, relative to acquiring title by the Mayor, Aldermen and Commonality of the City of New York, to certain lands on the northerly side of Seventy-fifth street, near Third Avenue, in the Nineteenth Ward of said city, duly selected and approved by said Board as a site for school purposes, under and in pursuance of the provisions of chapter 191 of the Laws of 1888.

WE, THE UNDERSIGNED, COMMISSIONERS of Estimate in the above-entitled matter, appointed pursuant to the provisions of chapter 191 of the Laws of 1888, hereby give notice to the owner or owners, lessee or lessees, parties and persons, respectively entitled to or interested in the lands, tenements, hereditaments and premises, title to which is sought to be acquired in this proceeding, and to all others whom it may concern, to wit:

First—That we have completed our estimate of the loss and damage to the respective owners, lessees, parties and persons interested in the lands or premises affected by this proceeding, or having any interest therein, and have filed a true report or transcript of such estimate in the office of the Board of Education for the inspection of whomsoever it may concern.

Second—That all parties or persons whose rights may be affected by the said estimate and who may object to the same or any part thereof, may, within thirty days after the first publication of this notice, file their objections to such estimate in writing with us at our office, Room No. 17, on the second floor of No. 45 William street, in the said city, as provided by section four of chapter 191 of the Laws of 1888, and that we, the said Commissioners, will hear parties so objecting at our said office on the third day of June, 1889, at 2 o'clock P. M., and upon such subsequent days as may be found necessary.

Third—That our report herein will be presented to the Supreme Court of the State of New York at a special term thereof, to be held at Chambers in the County Court-house in the City of New York, on the 7th day of June, 1889, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated NEW YORK, April 22, 1889.

CHARLES W. DAYTON,
LUKE F. COZANS,
JAMES T. SPARKMAN,
Commissioners.

LAMONT McLOUGHLIN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired to that part of EAST ONE HUNDRED AND SEVENTEENTH STREET (although not yet named by proper authority), extending from Vanderbilt (formerly Railroad) avenue to Webster avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

NOTICE IS HEREBY GIVEN THAT THE bill of the costs, charges and expenses incurred by reason of the proceedings in the above entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at the Chambers thereof, in the County Court-house, at the City Hall, in the City of New York, on the 29th day of April, 1889, at 10½ o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Department of Public Works, there to remain for and during the space of ten days.

Dated New York, April 16, 1889.
JOHN B. SHEA,
EMANUEL B. HART,
JOSEPH E. NEWBURGER,
Commissioners.

CARROLL BERRY, Clerk.

In the matter of the application of the Armory Board by the Counsel to the Corporation of the City of New York, relative to acquiring title by the Mayor, Aldermen and Commonality of the City of New York, to certain lands on Fourth avenue, Thirty-third and Thirty-fourth streets, in the Twenty-first Ward of said City, duly selected by said Board and approved by the Commissioners of the Sinking Fund, as a site for armory purposes, under and in pursuance of the provisions of chapter 330 of the Laws of 1887.

PURSUANT TO THE PROVISIONS OF CHAPTER 330 OF THE LAWS OF 1887, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on the 16th day of May, 1889, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title by the Mayor, Aldermen and Commonality of the City of New York to certain lands and premises, with the buildings thereon and the appurtenances thereto belonging, on Fourth avenue, Thirty-third and Thirty-fourth streets, in the Twenty-first Ward of said City, in fee, the same to be appropriated, converted and used to and for the purposes specified in said chapter 330 of the Laws of 1887, said property having been duly selected by the Armory Board, and approved by the Commissioners of the Sinking Fund, as a site for armory purposes, under and in pursuance of the provisions of said chapter 330 of the Laws of 1887, being the following described lots, pieces or parcels of land, viz.:

Beginning at a point on the southerly line of Thirty-fourth street, distant 188½ feet westerly from the westerly line of Lexington avenue; thence southerly and parallel with said avenue 197½ feet to the northerly line of Thirty-third street; thence westerly along the northerly line of Thirty-third street, distance 236½ feet to the easterly line of Fourth avenue; thence northerly along said easterly line of Fourth avenue, distance 197½ feet to the southerly line of Thirty-fourth street; thence easterly along said southerly line of Thirty-fourth street 236½ feet to the point or place of beginning, containing 46,745½ square feet.

Dated New York, April 18, 1889.
HENRY R. BEEKMAN,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to that part of EAST ONE HUNDRED AND FIFTY-FIRST STREET (although not yet named by proper authority), extending from Railroad avenue east to Third avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to the owner or owners, occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First.—That we have completed our estimate and assessment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 200 Broadway, fifth floor, in the said city, on or before the 29th day of May, 1889, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said 29th day of May, 1889, and for that purpose will be in attendance at our said office on each said ten days, at three o'clock a.m.

Second.—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the 29th day of May, 1889.

Third.—That the limits embraced by the assessment aforesaid are as follows, to wit: All those lots, pieces or parcels of land, situate, lying and being in the City of New York, which taken together are bounded and described as follows, viz.: Northerly by the centre line of the blocks between East One Hundred and Fifty-first street and East One Hundred and Fifty-second street; easterly by the westerly side of Third avenue; southerly by the centre line of blocks between East One Hundred and Fifty-first street and East One Hundred and Fifty-second street, and westerly by the easterly side of Railroad avenue, East, excepting from said area all the streets, avenues and roads, or portions thereof, heretofore legally opened, and all the unimproved land included within the lines of streets, avenues, roads, public squares and places shown and laid out upon any map or maps filed by the Commissioners of the Department of Public Parks pursuant to the provisions of chapter 604 of the Laws of 1874, and the laws amendatory thereof, or of chapter 410 of the Laws of 1882, as such area is shown upon our benefit map deposited as aforesaid.

Fourth.—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, at the City Hall, in the City of New York, on the 14th day of June, 1889, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, April 13, 1889.
EDWARD L. PARRIS,
THOMAS DUNLAP,
HIRAM D. INGERSOLL,
Commissioners.

CARROLL BERRY, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to the opening of ONE HUNDRED AND SIXTEENTH STREET, from the Boulevard to Riverside avenue, in the Twelfth Ward of the City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof in the County Court-house, in the City of New York, on Thursday, the 16th day of May, 1889, at the opening of the Court on that day, or as soon thereafter as Counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as One Hundred and Sixteenth street, from the Boulevard to Riverside avenue, in the Twelfth Ward of the City of New York, being the following described lots, pieces or parcels of land, viz.:

Beginning at a point in the westerly line of the Boulevard, distant 201 feet 10 inches northerly from the northerly line of One Hundred and Fifteenth street; thence westerly and parallel with said street 488 feet 4½ inches to the easterly line of Riverside avenue; thence northerly along said line, and in a curved line, radius 600 feet, distance 100 feet 5½ inches; thence easterly 480 feet to the westerly line of the Boulevard; thence southerly along said line 100 feet to the point or place of beginning.

Said One Hundred and Sixteenth street to be 100 feet wide between the lines of the Boulevard and Riverside avenue.

Dated New York, April 8, 1889.
HENRY R. BEEKMAN,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Commissioners of the Department of Public Parks for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title wherever the same has not been heretofore acquired to that part of ONE HUNDRED AND FORTY-SEVENTH STREET (although not yet named by proper authority), extending from Willis avenue to Brook avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by said Department.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to the owner or owners, occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First.—That we have completed our estimate and assessment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 200 Broadway, fifth floor, in the said city, on or before the 29th day of May, 1889, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said 29th day of May, 1889, and for that purpose will be in attendance at our said office on each said ten days at 4 o'clock p.m.

Second.—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates and other documents, which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the 29th day of May, 1889.

Third.—That the limits embraced by the assessment aforesaid are as follows, to wit: All those lots, pieces or parcels of land, situate, lying and being in the City of New York, which taken together are bounded and described as follows, viz.: Northerly by the centre line of the blocks between East One Hundred and Forty-seventh street and East One Hundred and Forty-eighth street; easterly by the westerly side of Brook avenue; southerly by the centre line of the block between East One Hundred and Forty-sixth street and East One Hundred and Forty-seventh street; and westerly by the easterly side of Willis avenue; excepting from said area all the streets, avenues and roads, or portions thereof, heretofore legally opened, and all the unimproved land included within the lines of streets, avenues, roads, public squares and places shown and laid out upon any map or maps filed by the Commissioners of the Department of Public Parks, pursuant to the provisions of chapter 604 of the Laws of 1874, and the laws amendatory thereof, or of chapter 410 of the Laws of 1882, as such area is shown upon our benefit map deposited as aforesaid.

Fourth.—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, at the City Hall, in the City of New York, on the 14th day of June, 1889, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, April 12, 1889.
J. DANA JONES,
WILLIAM H. BARKER,
JOHN WHALEN,
Commissioners.

CARROLL BERRY, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to EAST ONE HUNDRED AND THIRTY-SIXTH STREET (although not yet named by proper authority), extending from Rider avenue to Locust avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof in the County Court-house, in the City of New York, on Thursday, the 16th day of May, 1889, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as East One Hundred and Thirty-sixth street, extending from Rider avenue to Locust avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks, being the following described lots, pieces or parcels of land, viz.:

Beginning at a point in the eastern line of Rider avenue, distant 576.71 feet south of the intersection of the southern line of East One Hundred and Thirty-eighth street with the eastern line of Rider avenue.
1st. Thence southerly, along the eastern line of Rider avenue, for 50 feet.
2d. Thence southeasterly, deflecting 90° to the left, for 249.50 feet, to the western line of Third avenue.
3d. Thence northeasterly, along the western line of Third avenue, for 50.02 feet.
4th. Thence northwesterly, for 249.87 feet, to the point of beginning.

Beginning at a point in the western line of Brook avenue, distant 460.0 feet south of the intersection of the southern line of East One Hundred and Thirty-eighth street with the western line of Brook avenue.

1st. Thence southerly along the western line of Brook avenue for 50 feet.
2d. Thence westerly, deflecting 90° to the right, for 2,682.51 feet to the eastern line of Third avenue.
3d. Thence northeasterly along the eastern line of Third avenue for 62.08 feet.
4th. Thence easterly for 2,663.52 feet to the point of beginning.

PARCEL C.

Beginning at a point in the eastern line of Brook avenue, distant 460 feet south of the intersection of the southern line of East One Hundred and Thirty-eighth street with the eastern line of Brook avenue.

1st. Thence southerly along the eastern line of Brook avenue for 50 feet.
2d. Thence easterly, deflecting 90° to the left, for 487.94 feet to the western line of St. Ann's avenue.
3d. Thence northerly along the western line of St. Ann's avenue for 60.02 feet.
4th. Thence westerly for 486.29 feet to the point of beginning.

PARCEL D.

Beginning at a point in the western line of Southern Boulevard, distant 531.39 feet south of the intersection of the southern line of East One Hundred and Thirty-eighth street with the western line of Southern Boulevard.

1st. Thence southwesterly along the western line of Southern Boulevard for 60.31 feet.
2d. Thence westerly, deflecting 59° 57' 30" to the right, for 1,162.69 feet, to the eastern line of St. Ann's avenue.
3d. Thence northerly along the eastern line of St. Ann's avenue for 60.02 feet.
4th. Thence easterly for 1,198.90 feet to the point of beginning.

PARCEL E.

Beginning at a point in the eastern line of Southern Boulevard, distant 531.39 feet south of the intersection of the southern line of East One Hundred and Thirty-eighth street with the eastern line of Southern Boulevard.

1st. Thence southwesterly along the eastern line of Southern Boulevard for 60.31 feet.
2d. Thence easterly, deflecting 120° 02' 30" to the left, for 1,037.24 feet.
3d. Thence easterly, deflecting 8° 22' 53" to the right, for 819.57 feet.
4th. Thence northerly, deflecting 90° to the left, for 60 feet.
5th. Thence westerly, deflecting 90° to the left, for 823.06 feet.
6th. Thence westerly for 1,006.94 feet to the point of beginning.

Dated New York, March 29, 1889.
HENRY R. BEEKMAN,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Education by the Counsel to the Corporation of the City of New York, relative to acquiring title by the Mayor, Aldermen and Commonality of the City of New York, to certain lands on the southerly side of Thirty-eighth street, near Second avenue, in the Twenty-first Ward of said City, duly selected and approved by said Board as a site for school purposes, under and in pursuance of the provisions of chapter 191 of the Laws of 1888.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate in the above-entitled matter, appointed pursuant to the provisions of chapter 191 of the Laws of 1888, hereby give notice to the owner or owners, lessee or lessees, parties and persons, respectively entitled to or interested in the lands, tenements, hereditaments and premises, title to which is sought to be acquired in this proceeding, and to all others whom it may concern, to wit:

First.—That we have completed our estimate of the loss and damage to the respective owners, lessees, parties and persons interested in the lands or premises affected by this proceeding, or having any interest therein, and have filed a true report or transcript of such estimate in the office of the Board of Education for the inspection of whomsoever it may concern.

Second.—That all parties or persons whose rights may be affected by the said estimate and who may object to the same or any part thereof, may within thirty days after the first publication of this notice file their objections to such estimate in writing with us at our office, Room No. 17, on the second floor of No. 45 William street, in the said city, as provided by section four of chapter 191 of the Laws of 1888, and that we, the said Commissioners, will hear parties so objecting at our said office on the twenty-second day of May, 1889, at 2 o'clock p.m., and upon such subsequent days as may be found necessary.

Third.—That our report herein will be presented to the Supreme Court of the State of New York at a special term thereof, to be held at Chambers in the County Court-house in the City of New York, on the 24th day of May, 1889, at the opening of the Court on that day; and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, April 10, 1889.
PETER B. OLNEY,
JAMES M. VARNUM,
MATTHEW CHALMERS,
Commissioners.

LAMONT McLOUGHLIN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to EAST ONE HUNDRED AND FORTY-FIRST STREET (although not yet named by proper authority), extending from Rider avenue to Locust avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof in the County Court-house, in the City of New York, on Thursday, the 16th day of May, 1889, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as East One Hundred and Forty-first street, extending from Rider avenue to Locust avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks, being the following described lots, pieces or parcels of land, viz.:

Beginning at a point in the eastern line of Rider avenue, distant 473.73 feet southerly from the intersection of the south line of East One Hundred and Forty-fourth street and the eastern line of Rider avenue.
1st. Thence southerly, along the eastern line of Rider avenue, for 56.58 feet.
2d. Thence southeasterly, deflecting 62° 05' 10" to the left, for 265.49 feet, to the western line of the portion of Morris avenue that is 80 feet wide.
3d. Thence northerly, along the western line of Morris avenue, for 56.222 feet.
4th. Thence westerly, 266.27 feet to the point of beginning.

PARCEL B.

Beginning at a point in the western line of Third avenue, distant 725.22 feet northerly from the intersection of the eastern line of Morris avenue with the western line of Third avenue.

1st. Thence northeasterly, along the western line of Third avenue, for 50 feet.
2d. Thence northwesterly, deflecting 90° to the left, for 409.17 feet, to the eastern line of Morris avenue.
3d. Thence southerly, along the eastern line of Morris avenue, for 56.222 feet.
4th. Thence southeasterly, for 383.46 feet, to the point of beginning.

PARCEL C.

Beginning at a point in the western line of Brook avenue, distant 723.24 feet northerly from the intersection of the northern line of East One Hundred and Thirty-eighth street and the western line of Brook avenue.

1st. Thence northerly, along the western line of Brook avenue, for 60.27 feet.
2d. Thence westerly, deflecting 84° 34' 30" to the left, for 2,001.75 feet, to the eastern line of Third avenue.
3d. Thence southwesterly, along the eastern line of Third avenue, for 67.21 feet.
4th. Thence easterly, for 2,037.72 feet, to the point of beginning.

PARCEL D.

Beginning at a point in the easterly line of Brook avenue, distant 723.24 feet northerly from the intersection of the northern line of East One Hundred and Thirty-eighth street with the eastern line of Brook avenue.

1st. Thence northerly, along the eastern line of Brook avenue, for 60.27 feet.
2d. Thence easterly, deflecting 95° 25' 30" to the right, for 510.57 feet, to the western line of St. Ann's avenue.
3d. Thence southerly, along the western line of St. Ann's avenue, for 60.13 feet.
4th. Thence westerly, for 509.16 feet, to the point of beginning.

PARCEL E.

Beginning at a point in the eastern line of St. Ann's avenue, distant 710.78 feet northerly from the intersection of the northern line of East One Hundred and Thirty-eighth street with the eastern line of St. Ann's avenue.

1st. Thence northerly, along the eastern line of St. Ann's avenue, for 80.20 feet.
2d. Thence easterly, deflecting 94° 02' 29" to the right, for 1,082.3 feet.
3d. Thence easterly, deflecting 1° 48' 26" to the right, for 60.75 feet.
4th. Thence easterly, deflecting 9° 01' 44" to the left, for 953.81 feet, to the western line of the Southern Boulevard.
5th. Thence southwesterly, along the western line of the Southern Boulevard, for 100.50 feet.
6th. Thence westerly, deflecting 52° 45' 06" to the right, for 902.98 feet.
7th. Thence westerly, deflecting 8° 25' 58" to the right, for 60.66 feet.
8th. Thence westerly, for 1,086.79 feet, to the point of beginning.

PARCEL F.

Beginning at a point in the eastern line of the Southern Boulevard, distant 710.78 feet northerly from the intersection of the northern line of East One Hundred and Thirty-eighth street with the eastern line of Southern Boulevard.

1st. Thence northeasterly, along the eastern line of the Southern Boulevard, for 234.27 feet.
2d. Thence easterly, deflecting 68° 20' 23" to the right, for 1,217.08 feet.
3d. Thence southerly, deflecting 90° to the right, for 60 feet.
4th. Thence westerly, deflecting 90° to the right, for 1,071.20 feet.
5th. Thence westerly, curving to the left, on the arc of a circle, tangent to the preceding course, whose radius is 250 feet, for 298.19 feet to the point of beginning.

Dated New York, April 5, 1889.
HENRY R. BEEKMAN,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to SPUYTEN DUYVIL ROAD (although not yet named by proper authority), extending from the Spuyten Duyvil Parkway to Johnson avenue, as a second-class street or road, and from Johnson avenue to Riverdale avenue as a first-class street or road; and to WHITING STREET (although not yet named by proper authority), extending from the Spuyten Duyvil Parkway to Johnson avenue, as a first-class street or road; and to KAPPOCK STREET (although not yet named by proper authority), extending from the Spuyten Duyvil Parkway to Johnson avenue as a second-class street or road, in the Twenty-fourth Ward of the City of New York.

PURSUANT TO THE PROVISIONS OF CHAPTER 721 OF THE LAWS OF 1887, and all other statutes in such cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof in the County Court-house, in the City of New York, on Thursday, the 9th day of May, 1889, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of the following streets or avenues in the Twenty-fourth Ward of the City of New York, viz.:

1. SPUYTEN DUYVIL ROAD, from the Spuyten Duyvil Parkway to Johnson avenue, as a second-class street or road, and from Johnson avenue to Riverdale avenue, as a first-class street or road, being the following described lots, pieces or parcels of land, viz.:

PARCEL A.

Beginning at a point in the southerly line of the Spuyten Duyvil Parkway, distant 3,020.59 feet westerly from the northerly prolongation of the easterly line of Tenth avenue, measured at right angles with the same from a point 18,091.86 feet northerly of the intersection of the easterly line of Tenth avenue with the southerly line of One Hundred and Fifty-fifth street.

1st. Thence northerly along the Spuyten Duyvil Parkway for 50 feet.
2d. Thence southeasterly, curving to the right on the arc of a circle and continuing along the Spuyten Duyvil Parkway for 235.76 feet.
3d. Thence southerly, on a line tangent to the preceding course, for 611.69 feet.
4th. Thence southerly, deflecting 23° 47' 56" to the right, for 298.28 feet.
5th. Thence southeasterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 81.88 feet, for 88.06 feet.
6th. Thence southeasterly, on a line tangent to the preceding course, for 138.54 feet.
7th. Thence easterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 79.93 feet, for 90.26 feet.
8th. Thence northeasterly, on a line tangent to the preceding course, for 169.79 feet.
9th. Thence northeasterly, deflecting 17° 20' to the left, for 373.40 feet.
10th. Thence northeasterly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 670 feet, for 339.90 feet, to a point of reverse curve.
11th. Thence northeasterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 335 feet, for 124.25 feet.
12th. Thence northeasterly, on a line tangent to the preceding course, for 119.93 feet.
13th. Thence northeasterly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 880 feet, for 167.16 feet.

14th. Thence northeasterly, on a line tangent to the preceding course, for 266.27 feet.
 15th. Thence northeasterly, deflecting $8^{\circ} 59' 54''$ to the left, for 151.98 feet.
 16th. Thence southeasterly, deflecting $86^{\circ} 09' 25''$ to the right, for 38.56 feet.
 17th. Thence northeasterly, deflecting 90° to the left, for 397.65 feet.
 18th. Thence southwesterly, deflecting $174^{\circ} 30' 13''$ to the right, for 593 feet.
 19th. Thence southwesterly, deflecting $100^{\circ} 32' 13''$ to the right, for 62.60 feet.
 20th. Thence southwesterly, deflecting $82^{\circ} 11' 57''$ to the left, for 241.27 feet.
 21st. Thence southwesterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 830 feet, for 157.66 feet.
 22d. Thence southwesterly, on a line tangent to the preceding course, for 119.92 feet.
 23d. Thence southwesterly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 385 feet, for 142.79 feet, to a point of reverse curve.
 24th. Thence southwesterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 620 feet, for 314.53 feet.
 25th. Thence southwesterly, on a line tangent to the preceding course, for 381.02 feet.
 26th. Thence southwesterly, deflecting $17^{\circ} 20'$ to the right, for 208.99 feet.
 27th. Thence westerly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 115 feet, for 129.86 feet.
 28th. Thence northwesterly, on a line tangent to the preceding course, for 105 feet.
 29th. Thence northwesterly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 170 feet, for 182.82 feet.
 30th. Thence northwesterly, on a line tangent to the preceding course, for 287.74 feet.
 31st. Thence northerly, deflecting $23^{\circ} 47' 56''$ to the left, for 601.15 feet.
 32d. Thence northwesterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 170 feet, for 182.17 feet, to the point of beginning.

PARCEL B.

Beginning at a point distant 826.78 feet from the northerly prolongation of the easterly line of Tenth avenue, measured at right angles with the same from a point 19,973.13 feet northerly of the intersection of the easterly line of Tenth avenue with the southerly line of One Hundred and Fifty-fifth street.
 1st. Thence southwesterly, curving to the left on the arc of a circle, whose centre lies 176.24 feet westerly of the northerly prolongation of the easterly line of Tenth avenue, measured at right angles with the same from a point 19,461.29 feet northerly of the intersection of the easterly line of Tenth avenue with the southerly line of One Hundred and Fifty-fifth street, and whose radius is 843.57 feet, for 347.62 feet.
 2d. Thence southwesterly, on a line tangent to the preceding course, for 303.68 feet.
 3d. Thence northwesterly, deflecting 90° to the right, for 50 feet.
 4th. Thence northeasterly, deflecting 90° to the right, for 303.68 feet.
 5th. Thence northeasterly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 693.57 feet, for 174.48 feet.
 6th. Thence northeasterly, on a line tangent to the preceding course, for 167.28 feet.
 7th. Thence southeasterly, deflecting $78^{\circ} 30'$ to the right, for 71.18 feet, to the point of beginning.

2. WHITING STREET, from the Spuyten Duyvil Parkway to Johnson avenue, as a first-class street or road, being the following described lots, pieces or parcels of land, viz.:

Beginning at a point in the easterly line of the Spuyten Duyvil Parkway, distant 2,338.91 feet westerly from the northerly prolongation of the easterly line of Tenth avenue, measured at right angles with the same from a point 20,994.56 feet northerly of the intersection of the easterly line of Tenth avenue with the southerly line of One Hundred and Fifty-fifth street.
 1st. Thence northerly, along the easterly line of Spuyten Duyvil Parkway, for 60 feet.
 2d. Thence easterly, curving to the left on the arc of a circle, whose centre lies on the northerly prolongation of the preceding course, and whose radius is 565 feet, for 358.75 feet, to a point of reverse curve.
 3d. Thence easterly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 387 feet, for 102.78 feet, to a point of compound curve.

4th. Thence easterly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 493 feet, for 127.34 feet, to a point of reverse curve.
 5th. Thence northeasterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 125 feet, for 224.49 feet, to a point of reverse curve.

6th. Thence southerly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 1,190 feet, for 216.95 feet.
 7th. Thence southerly, on a line tangent to the preceding course, for 42.58 feet.
 8th. Thence northwesterly, deflecting $124^{\circ} 29' 29''$ to the right, for 123.29 feet.

9th. Thence westerly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 438 feet, for 205.34 feet, to a point of compound curve.
 10th. Thence westerly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 327 feet, for 86.84 feet, to a point of reverse curve.

11th. Thence westerly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 625 feet, for 326.85 feet, to the point of beginning.

3. KAPOCK STREET, from the Spuyten Duyvil Parkway to Johnson avenue, as a second-class street or road, being the following described lots, pieces or parcels of land, viz.:

Beginning at a point in the easterly line of the Spuyten Duyvil Parkway distant 2,670.58 feet westerly from the northerly prolongation of the easterly line of Tenth avenue, measured at right angles with the same from a point 13,917.22 feet northerly of the intersection of the easterly line of Tenth avenue with the southerly line of One Hundred and Fifty-fifth street.

1st. Thence northeasterly along the easterly line of the Spuyten Duyvil Parkway for 140.95 feet.
 2d. Thence southerly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 32 feet, for 43.73 feet, to a point of compound curve.

3d. Thence southeasterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 380 feet, for 105.63 feet, to a point of compound curve.

4th. Thence southeasterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 140 feet, for 19.52 feet.

5th. Thence southeasterly, curving to the right on the arc of a circle, whose centre lies 2,552.53 feet westerly of the northerly prolongation of the easterly line of Tenth avenue, measured at right angles with the same from a point 18,374.92 feet northerly of the intersection of the easterly line of Tenth avenue with the southerly line of One Hundred and Fifty-fifth street, and whose radius is 635 feet, for 328.73 feet, to a point of compound curve.

6th. Thence southerly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 420 feet, for 190.59 feet.

7th. Thence southerly, on a line deflecting $72^{\circ} 15' 42''$ to the left from a radial line passing through the southern extremity of the preceding course, for 130.34 feet.

8th. Thence southwesterly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 485 feet, for 232.42 feet, to a point of reverse curve.

9th. Thence southwesterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 820 feet, for 367.81 feet, to a point of compound curve.

10. Thence southeasterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 18 feet, for 45.93 feet.

11th. Thence southwesterly, on a line tangent to the preceding course, for 120.92 feet.
 12th. Thence southwesterly, deflecting $21^{\circ} 24'$ to the left, for 173.85 feet.

13th. Thence northeasterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 715.23 feet, for 211.69 feet to a point of reverse curve.

14th. Thence northeasterly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 880 feet, for 464.66 feet, to a point of reverse curve.

15th. Thence northeasterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 425 feet, for 215.57 feet, to a point of compound curve.

16th. Thence northerly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 340 feet, for 250.02 feet, to a point of compound curve.

17th. Thence northwesterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 555 feet, for 457.17 feet, to the point of beginning.

Dated, New York, April 3, 1889.

HENRY R. BEEKMAN,

Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to EAST ONE HUNDRED AND THIRTY-FOURTH STREET (although not yet named by proper authority), extending from a point 275 feet west of Third avenue to Brook avenue, and from Southern Boulevard to Long Island Sound, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof in the County Court-house, in the City of New York, on Monday, the 29th day of April, 1889, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as East One Hundred and Thirty-fourth street, extending from a point 275 feet west of Third avenue to Brook avenue, and from Southern Boulevard to Long Island Sound, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks, being the following described lots, pieces or parcels of land, viz.:

PARCEL A.

Beginning at a point in the western line of Third avenue, distant 1,082.24 feet south of the intersection of the southern line of East One Hundred and Thirty-eighth street and the western line of Third avenue.

1st. Thence southwesterly along the western line of Third avenue for 50 feet.

2d. Thence northwesterly, deflecting 90° to the right, for 275 feet.

3d. Thence northeasterly, deflecting 90° to the right, for 50 feet.

4th. Thence southeasterly for 275 feet to the point of beginning.

PARCEL B.

Beginning at a point in the western line of Brook avenue, distant 200 feet north of the intersection of the north line of Southern Boulevard with the western line of Brook avenue.

1st. Thence northerly along the western line of Brook avenue for 59.45 feet.

2d. Thence westerly, deflecting 90° to the left, for 2,812.31 feet, to the eastern line of Third avenue.

3d. Thence southwesterly along the eastern line of Third avenue for 63.53 feet.

4th. Thence easterly for 2,829.71 feet to the point of beginning.

PARCEL C.

Beginning at a point in the southern line of the Southern Boulevard, distant 873.61 feet east of the intersection of the eastern line of St. Ann's avenue with the southern line of Southern Boulevard.

1st. Thence easterly along the southern line of Southern Boulevard on a curve whose radius is 1,482.90 feet for 285.12 feet.

2d. Thence southerly, on a line which deflects $46^{\circ} 44' 07''$ to the right from the prolongation of the radius of the preceding curve through its eastern extremity, for 107.62 feet.

3d. Thence easterly, deflecting 90° to the left, for 1,178.71 feet.

4th. Thence easterly, deflecting $8^{\circ} 22' 53''$ to the right, for 1,367.63 feet.

5th. Thence southerly, deflecting $89^{\circ} 31' 35''$ to the right, for 80 feet.

6th. Thence westerly, deflecting $90^{\circ} 28' 25''$ to the right, for 1,362.43 feet.

7th. Thence westerly for 1,386.96 feet to the point of beginning.

Dated New York, March 30, 1889.

HENRY R. BEEKMAN,

Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to JOHNSON AVENUE (although not yet named by proper authority), extending from the Spuyten Duyvil Parkway (near Spuyten Duyvil Station) to the Spuyten Duyvil Parkway (near former Van Cortlandt avenue), in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof in the County Court-house, in the City of New York, on Monday, the 29th day of April, 1889, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as Johnson avenue, extending from the Spuyten Duyvil Parkway (near Spuyten Duyvil Station) to the Spuyten Duyvil Parkway (near former Van Cortlandt avenue), in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks, being the following described lots, pieces or parcels of land, viz.:

Beginning at a point in the southerly line of the Spuyten Duyvil Parkway, distant 2,759.06 feet westerly from the northerly prolongation of the easterly line of Tenth avenue, measured at right angles with the same from a point 18,152 feet northerly of the intersection of the easterly line of Tenth avenue with the southerly line of One Hundred and Fifty-fifth street.

1st. Thence northeasterly along the southerly line of the Spuyten Duyvil Parkway for 70.06 feet.

2d. Thence southeasterly, deflecting $84^{\circ} 32' 48''$ to the right, for 450.19 feet.

3d. Thence southeasterly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 400 feet, for 244.81 feet, to a point of reverse curve.

4th. Thence easterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 65 feet, for 181.55 feet.

5th. Thence northeasterly, on a line tangent to the preceding course, for 173.85 feet.

6th. Thence northeasterly, deflecting $21^{\circ} 24'$ to the right, for 387.92 feet.

7th. Thence easterly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 460 feet, for 329.44 feet, to a point of reverse curve.

8th. Thence easterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 785 feet, for 598.04 feet.

9th. Thence northeasterly, on a line tangent to the preceding course, for 321.48 feet.

10th. Thence northerly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 170 feet, for 131.56 feet, to a point of reverse curve.

11th. Thence northerly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 470 feet, for 208.13 feet.

12th. Thence northeasterly, on a line tangent to the preceding course, for 352.60 feet.

13th. Thence northeasterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 984 feet, for 229.85 feet, to a point of reverse curve.

14th. Thence northeasterly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 345 feet, for 120.83 feet, to a point of reverse curve.

15th. Thence northerly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 490 feet, for 290.01 feet, to a point of reverse curve.

16th. Thence northerly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 790 feet, for 194.05 feet, to a point of reverse curve.

17th. Thence northerly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 745 feet, for 344.79 feet.

18th. Thence northerly, on a line tangent to the preceding course for 309.97 feet.

19th. Thence northerly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 1,190 feet, for 522 feet.

20th. Thence northerly, on a line tangent to the preceding course, for 869.93 feet, to the Spuyten Duyvil Parkway.

21st. Thence easterly, deflecting 90° to the right, and along the Spuyten Duyvil Parkway, for 80 feet.

22d. Thence southerly, deflecting 90° to the right, for 869.93 feet.

23d. Thence southerly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 1,110 feet, for 486.91 feet.

24th. Thence southerly, on a line tangent to the preceding course, for 309.97 feet.

25th. Thence southerly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 825 feet, for 381.81 feet, to a point of reverse curve.

26th. Thence southerly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 620 feet, for 171.87 feet, to a point of reverse curve.

27th. Thence southerly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 570 feet, for 338.41 feet, to a point of reverse curve.

28th. Thence southwesterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 265 feet, for 92.81 feet, to a point of reverse curve.

29th. Thence southwesterly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 1,064 feet, for 248.53 feet.

30th. Thence southwesterly, on a line tangent to the preceding course, for 167.73 feet.

31st. Thence southeasterly, deflecting $92^{\circ} 21' 57''$ to the left, for 155.18 feet.

32d. Thence southwesterly, deflecting $114^{\circ} 39' 57''$ to the right, for 54.16 feet.

33d. Thence southwesterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 892.57 feet, for 174.48 feet.

34th. Thence southwesterly, on a line tangent to the preceding course, for 303.68 feet.

35th. Thence southeasterly, deflecting 90° to the left, for 50 feet.

36th. Thence southwesterly, deflecting 30° to the right, for 95.98 feet.

37th. Thence southwesterly, deflecting $5^{\circ} 29' 47''$ to the right, for 397.65 feet.

38th. Thence northwesterly, deflecting 90° to the right, for 38.56 feet.

39th. Thence southwesterly, deflecting $86^{\circ} 09' 25''$ to the left, for 151.98 feet.

40th. Thence southwesterly, deflecting $8^{\circ} 59' 54''$ to the right, for 129.61 feet.

41st. Thence westerly, curving to the right on the arc of a circle whose centre lies 2,025.14 feet westerly of the northerly prolongation of the easterly line of Tenth avenue, measured at right angles with the same from a point 19,214.49 feet northerly of the intersection of the easterly line of Tenth avenue with the southerly line of One Hundred and Fifty-fifth street, and whose radius is 845 feet, for 359.07 feet, to a point of reverse curve.

42d. Thence westerly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 400 feet, for 286.47 feet.

43d. Thence southwesterly, on a line tangent to the preceding course, for 267 feet.

44th. Thence southwesterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 725 feet, for 270.79 feet, to a point of reverse curve.

45th. Thence westerly, curving to the right on the arc of a circle, tangent to the preceding course, whose radius is 115 feet, for 321.21 feet, to a point of reverse curve.

46th. Thence northwesterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 350 feet, for 214.21 feet.

47th. Thence northwesterly, on a line tangent to the preceding course, for 384.46 feet.

48th. Thence northwesterly, curving to the left on the arc of a circle, tangent to the preceding course, whose radius is 150 feet, for 77.83 feet, to the point of beginning.

Dated New York, March 30, 1889.

HENRY R. BEEKMAN,

Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to that part of EAST ONE HUNDRED AND THIRTY-NINTH STREET (although not yet named by proper authority), extending from Rider avenue to St. Ann's avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

WE, THE UNDERSIGNED, COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to the owner or owners, occupant or occupants, of all houses and lots

and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 200 Broadway (fifth floor), in the said city, on or before the 15th day of May, 1889, and that we, the said Commissioners, will hear parties so objecting within the ten week days next after the said 15th day of May, 1889, and for that purpose will be in attendance at our said office on each of said ten days at 4 o'clock, P. M.

Second—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the 15th day of May, 1889.

Third—That the limits embraced by the assessment aforesaid are as follows, to wit: All those lots, pieces or parcels of land, situate, lying and being in the City of New York which, taken together, are bounded and described as follows, viz.: Northerly by the centre lines of the blocks between the northerly side of East One Hundred and Thirty-ninth street and the southerly side of East One Hundred and Fortieth street, between Brook and Morris avenues, and the centre lines of the blocks between the northerly side of East One Hundred and Thirty-ninth street and the southerly side of East One Hundred and Forty-first street, between Brook and St. Ann's avenue; easterly by the westerly side of St. Ann's avenue; southerly by the centre line of the blocks between the southerly side of East One Hundred and Thirty-ninth street and the northerly side of East One Hundred and Forty-first street, between Brook and St. Ann's avenue; westerly by the easterly side of Rider avenue; excepting from said area all the streets, avenues and roads, or portions thereof, heretofore legally opened, and all the unimproved land included within the lines of streets, avenues, roads, public squares and places shown and laid out upon any map or maps filed by the Commissioners of the Department of Public Parks, pursuant to the provisions of chapter 604 of the Laws of 1874, and the laws amendatory thereof, or of chapter 470 of the Laws of 1882, as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, at the City Hall, in the City of New York, on the thirty-first day of May, 1889, at the opening of the court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, April 1, 1889.

JOSEPH E. NEWBURGER,
MICHAEL J. KELLY,
MORRIS HERRMANN,
Commissioners.

Third—That our report herein will be presented to the Supreme Court of the State of New York at a special term thereof, to be held at Chambers in the County Court-house in the City of New York, on the 13th day of May, 1889, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, March 28, 1889.

MITCHEL LEVY,
HENRY A. GUMBLETON,
EDWARD T. WOOD,
Commissioners.

LAMONT McLOUGHLIN,
Clerk.

In the matter of the application of the Board of Education by the Counsel to the Corporation of the City of New York, relative to acquiring title by the Mayor, Aldermen and Commonalty of the City of New York, to certain lands at the southeast corner of Hester and Chrystie streets, in the Tenth Ward of said city, duly selected and approved by said Board as a site for school purposes, under and in pursuance of the provisions of chapter 191 of the Laws of 1888.

WE, THE UNDERSIGNED, COMMISSIONERS of Estimate in the above-entitled matter, appointed pursuant to the provisions of chapter 191 of the Laws of 1888, hereby give notice to the owner or owners, lessee or lessees, parties and persons, respectively entitled to or interested in the lands, tenements, hereditaments and premises, title to which is sought to be acquired in this proceeding, and to all others whom it may concern, to wit:

First—That we have completed our estimate of the loss and damage to the respective owners, lessees, parties and persons interested in the lands or premises affected by this proceeding, or having any interest therein, and have filed a true report or transcript of such estimate in the office of the Board of Education for the inspection of whomsoever it may concern.

Second—That all parties or persons whose rights may be affected by the said estimate and who may object to the same or any part thereof, may within thirty days after the first publication of this notice file their objections to such estimate in writing with us at our office, Room No. 17, on the second floor of No. 45 William street, in the said city, as provided by section four of chapter 191 of the Laws of 1888, and that we, the said Commissioners, will hear parties so objecting at our said office on the first day of May, 1889, at 11 o'clock A. M., and upon such subsequent days as may be found necessary.

Third—That our report herein will be presented to the Supreme Court of the State of New York at a special term thereof, to be held at Chambers in the County Court-house in the City of New York, on the eighth day of May, 1889, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, March 25, 1889.

JOHN O'BRYNE,
LUCAS L. VAN ALLEN,
WILLIAM Q. TITUS,
Commissioners.

LAMONT McLOUGHLIN,
Clerk.

JURORS.

NOTICE

IN RELATION TO JURORS FOR STATE COURTS.

OFFICE OF THE COMMISSIONER OF JURORS,
ROOM 127, STEWART BUILDING,
CHAMBERS STREET AND BROADWAY,
NEW YORK, June 1, 1888.

APPLICATIONS FOR EXEMPTIONS WILL BE heard here, from 9 to 4 daily, from all persons hitherto liable or recently serving, who have become exempt, and all needed information will be given.

Those who have not answered as to their liability, or proved permanent exemption, will receive a "jury enrollment notice," requiring them to appear before me this year. Whether liable or not, such notices must be answered (in person, if possible, and at this office only, under severe penalties. If exempt, the party must bring proof of exemption; if liable, he must also answer in person, giving full and correct name, residence, etc., etc. No attention paid to letters.

Persons "enrolled" as liable must serve when called or pay their fines. No mere excuse will be allowed or interference permitted. The fines, if unpaid, will be entered as judgments upon the property of the delinquents.

All good citizens will aid the course of justice, and secure reliable and respectable juries, and equalize their duty by serving promptly when summoned, allowing their clerks or subordinates to serve, reporting to me any attempt at bribery or evasion, and suggesting names for enrollment. Persons between sixty and seventy years of age, summer absentees, persons temporarily ill, and United States jurors are not exempt.

Every man must attend to his own notice. It is a misdemeanor to give any jury paper to another to answer. It is also punishable by fine or imprisonment to give or receive any present or bribe, directly or indirectly, in relation to a jury service, or to withhold any paper or make any false statement, and every case will be fully prosecuted.

CHARLES REILLY,
Commissioner of Jurors.

DEPARTMENT OF TAXES AND ASSESSMENTS.

DEPARTMENT OF TAXES AND ASSESSMENTS,
STAATS ZEITUNG BUILDING,
NEW YORK, January 14, 1889.

IN COMPLIANCE WITH SECTION 817 OF THE City Consolidation Act of 1882, it is hereby advertised that the books of "The Annual Record of the Assessed Valuations of Real and Personal Estate" of the City and County of New York, for the year 1889, are and will remain open for examination and correction until the thirtieth day of April, 1889.

All persons believing themselves aggrieved must make application to the Commissioners of Taxes and Assessments, at this office, during the period said books are open, in order to obtain the relief provided by law.

Applications for correction of assessed valuations on personal estate must be made by the person assessed, to the said Commissioners, between the hours of 10 A. M. and 2 P. M., except on Saturdays, when between 10 A. M. and 12 M., at this office, during the same period.

MICHAEL COLEMAN,
THOMAS L. FEITNER,
EDWARD L. PARRIS,
Commissioners of Taxes and Assessments.

DEPARTMENT OF STREET CLEANING.

NOTICE.

PERSONS HAVING BULKHEADS TO FILL, IN the vicinity of New York Bay, can procure material for that purpose—sashes, street sweepings, etc., such as is collected by the Department of Street Cleaning—free of charge, by applying to the Commissioner of Street Cleaning, at No. 51 Chambers street.

J. S. COLEMAN,
Commissioner of Street Cleaning.

HEALTH DEPARTMENT.

HEALTH DEPARTMENT OF THE CITY OF NEW YORK,
No. 301 MOTT STREET,
NEW YORK, August 2, 1888.

AT A MEETING OF THE BOARD OF HEALTH of the Health Department of the City of New York, held at its office, No. 301 Mott street, August 2, 1888, the following resolution was adopted:

Resolved, That under the power conferred by law upon the Health Department, the following additional section to the Sanitary Code for the security of life and health, be and the same is hereby adopted and declared to form a portion of the Sanitary Code:

Section 219. In every public hospital and dispensary in the City of New York there shall be provided and maintained a suitable room or rooms and place for the temporary isolation of persons infected with contagious disease, who shall immediately be separated from the other persons and other patients at such dispensary or hospital. It shall be the duty of the physician or physicians, of the officers, managers and of every one in charge of a hospital or dispensary, and of every one who has any duty or office in respect to patients in the course of treatment, or persons who apply for treatment or care at a dispensary or hospital, to see that a report is immediately made to the Health Department of the City of New York of every person infected with a contagious disease who comes to their knowledge, and that such person or persons so infected are properly isolated and kept separate from other persons and other patients.

[L. S.] JAMES C. BAYLES,
President.

EMMONS CLARK,
Secretary.

HEALTH DEPARTMENT, No. 301 MOTT STREET,
NEW YORK, January 31, 1888.

AT A MEETING OF THE BOARD OF HEALTH of the Health Department of the City of New York, held at its office, No. 301 Mott street, January 27, 1888, the following resolution was adopted:

Resolved, That section 18 of the Sanitary Code be and is hereby amended so as to read as follows:

SEC. 18. That no owner or lessee of any building, or any part thereof, shall lease or let, or hire out the same or any portion thereof, to be occupied by any person, or allow the same to be occupied, as a place in which, or for any one, to dwell or lodge, except when said building or such parts thereof are sufficiently lighted, ventilated, provided and accommodated, and are in all respects in that condition of cleanliness and wholesomeness, for which this Code or any law of this State provides, or in which they or either of them require any such premises to be kept. Nor shall any such person rent, let, hire out, or allow, having power to prevent the same to be used as or for a place of sleeping or residence, any portion or apartment of any building, which apartment or portion has not at least one foot of its height and space above the level of every part of the sidewalk and curbstone of any adjacent street, nor of which the floor is damp by reason of water from the ground, or which is impregnated or penetrated by any offensive gas, smell, or exhalation prejudicial to health. But this section shall not prevent the leasing, renting, or occupancy of cellars or rooms less elevated than aforesaid and as a part of any building rented or let, when they are not let or intended to be occupied or used by any person as a sleeping apartment, or as a principal or sole dwelling apartment.

[L. S.] JAMES C. BAYLES,
President.

EMMONS CLARK,
Secretary.

DEPARTMENT OF PUBLIC WORKS.

REGULATIONS ESTABLISHING A SCALE OF WATER RENTS AND RULES GOVERNING THE USE OF WATER, FOR THE CITY OF NEW YORK, BY ORDER OF JOHN NEWTON, COMMISSIONER OF PUBLIC WORKS.

UNDER CHAPTER 410, LAWS 1882, SECTIONS 350, 351, 352 and 353, and as amended by chapter 559, Laws 1887, as follows:

"The commissioner of public works shall, from time to time, establish scales of rents for the supplying of water, which rents shall be collected in the manner now provided by law, and which shall be apportioned to different classes of buildings in said city in reference to their dimensions, values, exposure to fires, ordinary uses for dwellings, stores, shops, private stables and other common purposes, number of families or occupants, or consumption of water, as near as may be practicable, and modify, alter, amend and increase such scale from time to time, and extend it to other descriptions of buildings and establishments. All extra charges for water shall be deemed to be included in the regular rents, and shall become a charge and lien upon the buildings upon which they are respectively imposed, and if not paid, shall be returned as arrears to the clerk of arrears. Such regular rents, including the extra charges above mentioned, shall be collected from the owners or occupants of all such buildings respectively, which shall be situated upon lots adjoining any street or avenue in said city in which the distributing water-pipes are or may be laid, and from which they can be supplied with water. Said rents, including the extra charges aforesaid, shall become a charge and lien upon such houses and lots, respectively, as herein provided, but no charge whatever shall be made against any building in which a water-meter may have been, or shall be placed as provided in this act. In all such cases the charge for water shall be determined only by the quantity of water actually used as shown by said meters. * * * * *

The said commissioner of public works is hereby authorized to prescribe a penalty not exceeding the sum of five dollars for each offense, for permitting water to be wasted, and for any violation of such reasonable rules as he may, from time to time, prescribe for the prevention of the waste of water; such fines shall be added to the regular water rents."

The regular annual rents to be collected by the Department of Public Works shall be as follows, to wit:

Croton Water Rates for Buildings from 16 to 50 feet, all others not specified subject to Special Rates

FRONT WIDTH.	1 Story.	2 Stories.	3 Stories.	4 Stories.	5 Stories.
16 feet and under.	\$4.00	\$5.00	\$6.00	\$7.00	\$8.00
16 to 18 feet.	5.00	6.00	7.00	8.00	9.00
18 to 20 feet.	6.00	7.00	8.00	9.00	10.00
20 to 22½ feet.	7.00	8.00	9.00	10.00	11.00
22½ to 25 feet.	8.00	9.00	10.00	11.00	12.00
25 to 30 feet.	10.00	11.00	12.00	13.00	14.00
30 to 37½ feet.	12.00	13.00	14.00	15.00	16.00
37½ to 50 feet.	14.00	15.00	16.00	17.00	18.00

The rent of all tenements which shall exceed in width fifty feet shall be the subject of special contract with the Commissioner of Public Works.

The apportionment of the regular rents upon dwelling-houses are on the basis that but one family is to occupy the same, and for each additional family, one dollar per year shall be charged.

Meters will be placed on all houses where waste of water is found, and they will be charged at rates fixed by the Department for all the water passing through them.

The extra and miscellaneous rates shall be as follows, to wit:

BAKERIES.—For the average daily use of flour, for each barrel, three dollars per annum.

BARBER SHOPS shall be charged from five to twenty dollars per annum each in the discretion of the Commissioner of Public Works; an additional charge of five dollars per annum shall be made for each bathtub therein.

BATHING TUBS in private houses, beyond one, shall be charged at three dollars per annum each, and five dollars per annum each in public houses, boarding-houses, and bathing establishments. Combination stationary wash-tubs, having a movable division in the centre and capable of use for bathing, shall be charged the same as bathing tubs.

BUILDING PURPOSES.—For each one thousand bricks laid, or for stone-work to be measured as brick—ten cents per thousand. For plastering, forty cents per hundred yards.

COWS.—For each and every cow, one dollar per annum.

DINING SALOONS shall be charged an annual rate of from five to twenty dollars, in the discretion of the Commissioner of Public Works.

FISH STANDS (retail) shall be charged five dollars per annum each.

For all stables not metered, the rates shall be as follows:

HORSES, PRIVATE.—For two horses there shall be charged six dollars per annum; and for each additional horse, two dollars.

HORSES, LIVERY.—For each horse up to and not exceeding thirty in number, one dollar and fifty cents each per annum; and for each additional horse, one dollar.

HORSES, OMNIBUS AND CART.—For each horse, one dollar per annum.

HORSE TROUGHS.—For each trough, and for each half barrel or tub on sidewalk or street, twenty dollars per annum; each trough is to be fitted with a proper ball-cock to prevent waste.

HOTELS AND BOARDING HOUSES shall, in addition to the regular rate for private families, be charged for each lodging room, at the discretion of the Commissioner of Public Works.

LAUNDRIES shall be charged from eight to twenty dollars per annum, in the discretion of the Commissioner of Public Works.

LIQUOR AND LAGER BEER SALOONS shall be charged an annual rate of ten dollars each. An additional charge of five dollars per annum shall be made for each tap or wash-box.

PHOTOGRAPH GALLERIES shall be charged an annual rate of from five to twenty dollars, in the discretion of the Commissioner of Public Works.

PRINTING OFFICES, when not metered, shall be charged at such rates as may be determined by the Commissioner of Public Works.

SODA, MINERAL WATER AND ROOT BEER FOUNTAINS shall be charged five dollars per annum each.

STEAM ENGINES, where not metered, shall be charged by the horse-power, as follows: For each horse-power up to and not exceeding ten, the sum of ten dollars per annum; for each exceeding ten, and not over fifteen, the sum of seven dollars and fifty cents each; and for each horse-power over fifteen, the sum of five dollars.

WATER-CLOSETS AND URINALS.—To each building on a lot one water-closet having sewer connection is allowed without charge; each additional water-closet or urinal will be charged as hereinafter stated. All closets connected in any manner with sewer shall be charged two dollars for each seat per annum, whether in a building or on any other portion of the premises.

Urinals shall be charged two dollars per annum each.

WATER-CLOSET RATES.—For hoppers of any form, when water is supplied direct from the Croton supply, through any form of the so-called single or double valves, hopper-cocks, stop-cocks, self-closing cocks, or any valve or cock of any description attached to the closet, each, per year, twenty dollars.

For any pan closet, or any of the forms of valve, plunger, or other water-closet not before mentioned, supplied with water as above described, per year, ten dollars.

For any form of hopper or water-closet, supplied from the ordinary style of cistern filled with ball-cock, and overflow pipe that communicates with the pipe to the water-closet, so that overflow will run into the hopper or water-closet, when ball-cock is defective, or from which an unlimited amount of water can be drawn by holding up the handle, per year, each, five dollars.

For any form of hopper or water-closet, supplied from any of the forms of waste-preventing cisterns, that are approved by the Engineer of the Croton Aqueduct, which are so constructed that not more than three gallons of water can be drawn at each lift of the handle, or depression of the seat, if such cisterns are provided with an overflow pipe, such overflow pipe must not connect with the water-closet, but be carried like a safe-waste, as provided by the Board of Health regulations, per year, two dollars.

Cistern answering this description can be seen at this Department.

METERS.

Under the provisions of section 352, Consolidated Act 1882, water-meters, of approved pattern, shall be hereafter placed on the pipes supplying all stores, workshops, hotels, manufactories, public edifices, at wharves, ferry-houses, stables, and in all places where water is furnished for business consumption, except private dwellings.

It is provided by section 352, Laws of 1882, that "all expenses of meters, their connections and setting, water rates, and other lawful charges for the supply of Croton water, shall be a lien upon the premises where such water is supplied, as now provided by law." * * *

All manufacturing and other business requiring a large supply of water will be fitted with a meter.

Water measured by meter, ten cents per one hundred cubic feet.

Rate Without Meters.

PER DAY, GALLONS.	PER 100 GALLONS, RATE.	PER ANNUM, AMOUNT.
25	05	\$3 75
30	05	7 50
40	05	9 00
50	05	10 50
60	05	12 00
70	05	13 50
80	05	15 00
90	05	16 50
100	05	18 00
120	05	21 00
150	05	26 25
200	05	36 00
250	04½	33 75
300	04	30 00
350	03½	26 25
400	03½	22 50
500	03½	18 75
600	03½	15 00
700	03½	11 25
800	03½	7 50
900	03½	4 00
1,000	03½	105 00
1,500	03	135 00
2,000	02½	150 00
2,500	02½	180 00
3,000	02½	225 00
4,000	02½	280 00
4,500	02½	303 75
5,000	02½	333 50
6,000	02	360 00
7,000	02	420 00
8,000	02	480 00
9,000	02	540 00
10,000	02	600 00

The rate charged for steam-vessels taking water daily or belonging to daily lines is one-half cent per ton (Custom House measurement) for each time they take water.

Steamers taking water other than daily, one cent per ton (Custom House measurement).

Water supplied to sailing vessels and put on board, twenty-five cents per hundred gallons.

All matters not hereinbefore embraced are reserved for special contract by and with the Commissioner of Public Works.

HYDRANTS, HOSE, TROUGHS, FOUNTAINS, ETC., ETC.

No owner or tenant will be allowed to supply water to another person or persons.

All persons taking water from the City must keep their own service-pipes, street tap, and all fixtures connected therewith, in good repair, protected from frost, at their own risk and expense, and shall prevent all waste of water.

The use of hose to wash coaches, omnibuses, wagons, railway cars or other vehicles or horses, cannot be permitted.

No horse-troughs or horse-watering fixtures will be permitted in the street or on the sidewalk, except upon a license or permit taken out for that purpose. All licenses or permits must be annually renewed on the first of May. Such fixtures must be kept in good order and the water not allowed to drip or waste by overrunning the sidewalk or street, or to become dangerous in winter by freezing in and about such troughs or fixtures.

No hydrant will be permitted on the sidewalk or in the front area, and any hydrant standing in a yard or alley, attached to any dwelling or building, must not be left running when not in actual use, and if the drip or waste from such hydrant freezes and becomes dangerous in winter, the supply will be shut off in addition to the penalty of five dollars imposed.

Taps at wash-basins, water-closets, baths and urinals must not be left running, under the penalty of five dollars for each offense, which will be strictly enforced.

Fountains or jets in hotels, porter-houses, eating-saloons, confectioneries or other buildings are strictly prohibited.

The use of hose for washing sidewalks, stoops, areas, house-fronts, yards, court-yards, gardens, and about stables, is prohibited. Where premises are provided with wells, special permits will be issued for the use of hose, in order that the police or inspectors of this department may understand that the permission is not for the use of Croton water.

Opening fire-hydrants to fill hand sprinklers or other vessels will not be allowed.

The penalty for a violation of any of the preceding rules and regulations will be five dollars for each offense, and if not paid when imposed, will become a lien on the premises in like manner as all other charges for unpaid water rates.

By order,

JOHN NEWTON,
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
No. 31 CHAMBERS STREET,
NEW YORK, June 21, 1887.

PUBLIC NOTICE AS TO WATER RATES.

PUBLIC NOTICE IS HEREBY GIVEN THAT

in compliance with the provisions of chapter 559, Laws of 1887, amending sections 350 and 351 of the New York City Consolidation Act of 1882, passed June 9, 1887, the following changes are made in charging and collecting water rents:

1st. All extra charges for water incurred from and after June 9, 1887, shall be treated, collected and returned in arrears in the same manner as regular rents have heretofore been treated.

2d. In every building where a water meter or meters are now, or shall hereafter be in use, the charge for water by meter measurement shall be the only charge against such building, or such part thereof as is supplied through meter.

3d. The returns of arrears of water rents, including the year 1887, shall be made as heretofore on the confirmation of the tax levy by the Board of Aldermen, and shall include all charges and penalties of every nature.

4th. A penalty of five dollars (\$5) is hereby established, and will be imposed in each and every case where the rules and regulations of the Department prohibiting the use of water through hose, or in any other wasteful manner, are violated, and such penalties will be entered on the books of the Bureau against the respective buildings or property, and, if not collected, be returned in arrears in like manner as other charges for water.

5th. Charges for so-called extra water rents of every nature, imposed or incurred prior to June 9, 1887, will be canceled or record on the books of the Department.

D. LOWBER SMITH,
Deputy and Acting Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
No. 31 CHAMBERS STREET,
NEW YORK, November 10, 1886.

NOTICE TO CROTON WATER CONSUMERS.

NUMEROUS APPLICATIONS HAVE BEEN

made to this Department by citizens claiming reductions or rebates on bills for water supplied through meters, on the alleged ground of leakage caused by defective plumbing and worn-out service pipes, or by willful waste of water by tenants allowing the faucets to be turned on in full force in water-closets, sinks, etc., without the knowledge or consent of the owners of the premises.

The main object of the use of water-meters is to enable this Department to detect and check the useless and unwarrantable waste of an element so valuable and essential to the health and comfort of all the citizens, and this object can only be accomplished by enforcing payment for the water wasted.

Under the law all charges for water supplied through meters are a lien against the respective premises, and the law therefore holds the owner of the premises responsible for the amount of water used or wasted.

Notice is therefore given to all householders that in all further applications for reduction of water rents, no allowance will be made on account of waste of water occurring through leaks, from defective service pipes or plumbing, or wasteful use of water by tenants or occupants of buildings, though such leakage or waste may have occurred without the knowledge or consent of the owners of the buildings.

House-owners are further notified that whenever their premises become vacant, and are likely to remain vacant, they must notify this Department in writing, and that unless this requirement is complied with no deductions in extra water rents will be allowed for any portion of one year.

JOHN NEWTON,
Commissioner of Public Works.

GRANTS OF LANDS UNDER WATER.

THE OWNERS OF LANDS IN THE CITY OF

New York, which were formerly under water, and which were granted by the City of New York, are notified that nearly all of the grants of such lands contain covenants, on the part of the grantees, and their successors and assigns, to maintain and keep in repair the adjacent streets. The condition of many of these streets is such as to make it necessary that they should be repaired and repaved, and that the obligation resting upon the present owners of adjacent lots to do this work should now be enforced. Many of such owners have requested that such covenants be commuted, and wholly released, upon the payment by them of a certain sum per lot.

The matter will shortly be presented to the Commissioners of the Sinking Fund for their consideration, and the adjustment of the basis of commutation, and application for releases should therefore be made at once.

They may be sent to the undersigned.