











ANNUAL REPORT

OF THE

PUBLIC WORKS DEPARTMENT

OF THE

CITY OF BOSTON

FOR THE YEAR ENDING DECEMBER 31, 1964.



Hon. John F. Collins, Mayor

James W. Haley, Commissioner of Public Works

Frederick L. Garvin, Engineering Division Engineer

Charles Martell, Highway Division Engineer

John F. Flaherty, Sanitary Division Engineer

Edward G. A. Powers, Sewer Division Engineer

Edward Pinkul, Water Division Engineer



PUBLIC WORKS DEPARTMENT

1964 ANNUAL REPORT

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FOR THE YEAR ENDING DECEMBER 31, 1964

Boston, January 2, 1965

Hon. John F. Collins,

Mayor of Boston.

DEAR MR. MAYOR:

In compliance with the provisions of Section 25 of Chapter 3 of the Revised Ordinances of 1961, I respectfully submit herewith the annual report of the Public Works Department and the Public Improvement Commission for the year ending December 31, 1964.

No function of municipal endeavor is so manifest to the tax payer and the visitor as Public Works. It involves the construction, maintenance and operation of an elaborate system of highways, sewerage, water distribution, and sanitation including the collection and disposal of solid wastes, and street cleaning. The expenditures to carry on this work amounted to \$27,917,-263.00 in 1964.

ORGANIZATION

In 1960 a major reorganization of the department was undertaken involving the ratings and duties of over one half of all department personnel. These changes are now substantially completed allowing an overall reduction in personnel of over 20 percent. Much has

been accomplished; much remains to be done. Future progress will depend primarily on the city's ability to establish and carry out a higher calibre personnel management program particularly in recruitment training and supervision of employees. For years prior to 1960 the department has drifted along according to methods and practices laid down in the 19th century. The policy of the department is to set up a straight line, centralized, staff organization; a complete job classification with clearly designed duties for each position; on the job training for promotions; and school training of personnel including that on a college level.

PERSONNEL

As of December 31, 1964 there were 1,364 permanent employees in the department. This compares with 1,625 employees on December 31, 1960 and 2,441 employees on December 31, 1950. The problem of obtaining replacement employees, particularly in the engineering field, is acute and presents a serious problem. With the competition from industry, and the wage differential in State and City salaries we are unable to employ qualified engineers and engineering aides.

CENTRAL OFFICE

The Central Office is composed of three sections: an Administrative Branch in the charge of an Administrative Assistant, a Maintenance Branch in the charge of the Director of Transportation, and a Permit Branch in the charge of a Supervisor of Permits.

The Administrative Branch is the centralized unit for processing purchase supply requisitions, service orders, payrolls, personnel requisitions, for employment transfers, promotions, and terminations. Records and files are maintained and services to the Public Improvement

Commission are supplied as required.

The Maintenance Branch provides for the custody, care and repair of departmental automotive equipment; supervision and maintenance of all department automotive equipment; the supervision and maintenance of departmental property; the operation of shops; and the

operation of a two-way radio station on a 24-hour basis. There were 484 automotive units in the Public Works Department, plus 23 trailers, transports, sewer rodders, etc. Approximately 10,000 repair jobs were performed. An inventory value at approximately \$50,000 is maintained. A closed circuit teletype system and base radio is maintained with ten stations, which link the various district yards and vehicles. New equipment in the amount of \$233,196.99 was acquired through budget appropriations; plus \$98,546.68 from snow appropriations; and \$7,750.00 from Civil Defense Loans for 10 two-way radios.

THE PERMIT BRANCH

The Permit Branch is the centralized unit for issuing departmental permits and receiving receipts for departmental fees and services. Cash receipts for permits for signs, street openings, licenses, sewer inspection fees, dump tickets, contract books, engineering inspection fees, and miscellaneous amounted to \$345,155.33. Committed accounts for rentals, hydrant use, towing, engineering reproductions and damage to property amounted to \$25,786.87. Deposit accounts for water deposits and street opening accounts amounted to \$597,047.33 with a grand total of \$967,987.53.

Receipts showed an overall increase of over 40 percent. Fewer licenses were issued in 1964 but due to an increase in fees there was an increased revenue. The Permit Branch is setting up a system of issuing projection per-

mits via the Data Processing unit.

Engineering Division

This Division is composed of four sections as follows: Administration; Planning and Programming; Survey; and Design. Surveys, plans and specifications for public works were advertised involving street reconstruction in 164 streets and a length of 24.5 miles at an estimated cost of \$2,730,000; street reconstruction under Chapter 90 of the General Laws involving 7 streets and a length of 3.2 miles at an estimated cost of \$508,000; street construction under Chapter 393 of the Acts of 1906 involving 19 streets and a length of 1,7 miles at an estimated

cost of \$400,000; street construction in redevelopment areas involving 10 streets and a length of 0.7 miles at an estimated cost of \$244,000; sewerage works involving 10 contracts estimated to cost \$854,000; water works involving 5 contracts estimated to cost \$231,000; sewerage and water works in non-redevelopment areas involving 7 contracts estimated to cost \$516,300; sewerage and water works in redevelopment areas involving 2 contracts estimated at a cost of \$187,500; and miscellaneous contracts, 5 in number, estimated to cost \$508,000, for a grand total of \$5,670,800.

Administration

The Administration Section performs the duties of carrying out the functions of the division. These duties consist of the usual office procedures; preparing contract stencils, processing municipal lien certificates, processing and indexing plans, mimeographing work and preparing betterment assessment information.

Planning and Programming Section: The Planning and Programming Section prepared the highway, water and sewer programs for the Public Works Department. This section, with the support of the other sections of the Engineering Division, performed services as directed by the Public Improvement Commission. During the first six months of 1964, the Section Chief assisted the Division Engineer who served as the Public Improvement Commission Engineer. In this capacity he furnished professional advice relative to interpretation of plans, land taking, specific repairs, widenings and other improvements ordered by the Commission.

In connection with the various programs, this section maintained liaison with the Mass. Dept. of Public Works, City of Boston Traffic and Parking Dept., Fire Dept., Police Dept., Sewer, Water and Highway

Divisions and all public utility companies.

Upon receipt of plans of the Boston Extension of the Mass. Turnpike, this section reviewed and/or coordinated the plans with other city departments and divisions and, where applicable, with the Boston Redevelopment Authority. Close liaison with the con-

sultants (Howard, Needles, Tammen and Bergendorf) for the Mass. Turnpike Authority was maintained throughout the year. The Planning and Programming Section assisted the Division Engineer in making recommendations concerning approval of the plans to the Commissioner of Public Works.

The Planning and Programming Section served as a coordinator between the City of Boston Public Works Department and the Boston Redevelopment Authority and its consultants on matters of mutual interest concerning the various redevelopment projects in the "New Boston".

Public Utility Companies plans for proposed construction in city streets were reviewed by this section and appropriate recommendations relative to approval were made to the Division Engineer.

Survey Section: This section made 47 surveys and plans for the laying out of 4.4 miles of public highways; 177 surveys and 216 plans for reconstruction of 41.0 miles of highways; four major surveys for reconstruction of an additional 1.2 miles of highways; 6 surveys and plans for discontinuance of 0.25 miles of highways; 40 surveys and plans for the taking of 3.78 miles of sewerage easements and betterment plans; 4 profiles for highway construction; 9 surveys and plans for minimum specification pavements, involving 0.97 miles; 6 surveys and plans for specific repairs and widenings (Chapter 90) involving 2.9 miles; marking line and grades; 11 surveys and plans for specific repairs; and surveys for engineering reports. In addition a topographic survey was made for the Library Department and one for the School Committee. Two surveys and plans were also made for school purposes.

Design Section: The Design Section, under the supervision of an Associate Engineer performed the following work:

Prepared all plans, estimates, specifications and contract forms relating to the design and construction of highway, bridge, sewer and water facilities, in accordance with departmental programs.

Prepared designs, plans and specifications required in connection with proposed structures and appurtenances to be constructed by the operating divisions of the department.

Designed grades, in connection with the construction

and reconstructions of highways and sewers.

Checked all plot plans submitted to the Building Department, prior to the issuance of building permits, to determine if the same are approvable with regards to grades and availability of sewer and water facilities.

Checked proposed construction over existing sewers, to determine if same is structurally sound and ap-

provable.

Made tracings of all survey plans, plots, street layout plans, easement plans, assessment plans, etc., prepared by the Survey Section.

Prepared and traced various maps, plans, charts, etc., required for general purposes in the operation of the

department.

Made estimates and preliminary plans for the Public Improvement Commission, relating to proposed sewer, water and street betterments.

Checked plans and specifications of, and consulted with, various engineering firms regarding sewer, water and highway construction for the Government Center, Prudential Center, and the Washington Park Project.

The major accomplishments of the Design Section in 1964 consisted of completing the necessary designs, estimates, construction plans and specifications for 46 public works contracts which were advertised in 1964, involving street construction and reconstruction and sewer and water works installations.

Work related to the foregoing included:

Completion of 192 construction plans for highway projects. Design of 70 sewer grades.

Layout and tracing for 60 water works installations.

Other work included:

Review of approximately 775 plot plans for the Building Department.

30 street grades designed.

27 tracings of street layout plans.

122 tracings of specific repairs, widenings and relocations.

20 tracings of sewer easement and assessment plans.

15 tracings of miscellaneous sidewalk and street assessment plans, discontinuances, and land plans.

41 approval plans reviewed and checked.
45 streets designed for catch basin locations.

Preparation of miscellaneous charts, maps and plans for other divisions and departments.

34 estimate reports furnished in connection with proposed

sewerage works.

20 estimate reports furnished in connection with proposed street developments.

34 sewerage works reports of proposed construction sent to

M.D.C.

Investigation of 8 major drainage areas:

Washington Park Redevelopment
Spring Street Brook
Strong's Pond Area
Maywoods Brook
Burton Street Area
Dorchester Brook
South Bay
Myopia Brook

Reviewed plans and layouts of sewerage and water works for 6 B.R.A. redevelopment areas.

Reviewed plans and layouts for various sections of the Mass.

Turnpike.

Reproduction and Photographic Unit: This unit supplied blueprints, ozalid prints, autopositives and photographs for the department and other departments. 26,780 photostats; 483 blueprints; 47,085 ozalids and 197 autopositives were made. 4,201 photo negatives were made; 368 4" x 5" prints and 4,095 8" x 10" prints were produced.

HIGHWAY DIVISION

The functions of this Division are performed by four sections: Administration, Construction, Maintenance

and Street Lighting.

The Administrative Section performed the routine clerical duties of the Division, including preparation and processing of correspondence, initiating supply and service requisitions and the preparation of contract payments.

The Construction Section supervised the construction and reconstruction of 149 streets at a contract price of \$2,431,595.15. In addition the construction or reconstruction of 54 streets, to be completed in 1965, was contracted for, at contract price of \$991,486.65. Chapter 90 projects involving 7 streets were completed at a contract price of \$479,998.75.

The Maintenance Section made repairs and flushed and cleaned 750 miles of streets, cleaned 3,645 catch basins; maintained and operated 7 drawbridges and 50 fixed bridges.

The Street Lighting Section supervised the installation of 927–3,500 lumen lamps; 255–7,000 lumen lamps; 98–11,000 lumen lamps and 102–20,000 lumen lamps. During the year there were approximately 240 gas lamps in the city and 12 were installed. Maintenance was provided for 97 police spotlights.

SNOW REMOVAL

Snow removal for the year 1964 accounted for an expenditure of \$1,030,791, which created a deficit of \$260,189.

A storm on January 13–14 deposited 9.2 inches of snow and one on January 28, deposited 4.5 inches. On February 16 a storm deposited 7.4 inches, followed by another storm on the 19th which added an additional 9.1 inches. The storm of the 16th was accompanied by sleet which further complicated the task of keeping the highways open and safe; and for periods traffic was snarled. March was the second least snowy month in nine years, but a sleet storm developed on March 10, which continued steadily for eleven hours and caused an accumulation of 2 inches. Maintaining traffic under these conditions was an expensive challenge.

In December a major ice storm developed on the 3rd and continued until the 6th. Streets and sidewalks were persistently very slippery. During the year department personnel spread 19,000 tons of salt and 3,500 tons of sand to keep the highways safe. A policy change will be noted, in that as far as possible, unmixed salt was used, during the year. Results were satisfactory.

A marked improvement in the parking situation was noted, due to the splendid cooperation of the Police Department and the Traffic and Parking Department. All night parking, however, will continue to be a major problem in snowplowing and removal operation. Since the majority of residences were constructed before the use of motor vehicles became widespread, it is only through the cooperation of the motor vehicle owner that

highways in Boston can be kept open to public travel during the winter season. Resort to towing will have to be maintained, but will be held to a minimum.

WATER SHORTAGE

An acute drought developed during the year. In March a deficiency of precipitation amounted to 0.74 inches, followed by 0.08 inches in April; 2.81 inches in May; 1.57 inches in June; 1.88 inches in August; 0.81 inches in September; 0.32 inches in October; and 1.75 inches in November for a departure from normal in these eight months of 9.96 inches. The other four months showed a surplus above normal of 3.53 inches for a net loss of 6.43 below normal. Total precipitation amounted to 36.41 inches.

The effect of this shortage was felt by the Metropolitan District Water Division in that the Quabbin Reservoir, on December 31, 1954 contained 299 billion gallons of water, which is 80 percent of the normal seventeen year average of 412 billion gallons. The thirty member cities used 85.886 billion gallons of water for the year ending June 30, 1964, and the non-member municipalities used an estimated 8.146 billion gallons for a total drain of 94.032 billion gallons. The supply of water is adequate for the district, but if the present trend of drought continues to the middle of May 1965, emergency measures may be required to augment inadequate supplies of non-members and wholesale use of water may be restricted.

The picture in the water distribution system is not as bright. During the summer months complaints were received of low water pressures in sections of West Roxbury and Hyde Park. Although May was the 5th driest in 146 years, July rainfall was about average, and the August precipitation was off by 50 percent, it should be remembered that we had the coldest August in 61 years which reduced water use. If the summer of 1965 is dry and hot, reductions in water pressures may be expected, and restrictions in water use may be required in Boston. It is intended to inaugurate an engineering study, and take remedial action by cleaning several large feeder mains and relining the same with cement linings.

SANITARY DIVISION

The Sanitary Division is charged with the responsibility of the collection and disposal of the solid wastes of the city. The work is carried out through the medium of three sections—Administrative, Collection and Disposal.

Administrative Section

Program 1 — Administration

The activities of the Administrative Section comprised supervising the various functions and operations of the division, the preparing of all contracts, the processing of payments, the processing of reports, correspondence, violation notices and complaints (complaints were written, telephoned, and in person) and compilation of inspectors' reports and daily reports on the Collection and Disposal Section's performances, investigating and processing applications for permits for the transportation of refuse, the preparation of the budget, acted as liaison with Administrative Services Department and with Northeastern University on In-Service Training Programs for departmental personnel, and the supervision of the Snow Emergency Center.

Collection Section

Program 2 — Refuse Collection Contracts

New refuse collection contracts were awarded to eight contractors in eleven districts effective April 1, 1964, as a result of competitive bidding. The yearly contract price for these contracts is \$2,403,841.80, an increase of \$258,433.00 or 12 percent over the 1961 bid prices for the contracts which expired on March 31, 1964. While efforts were made to keep the cost of this service to a minimum by reducing the number of collection districts from 13 to 11 by consolidating the Boston Downtown and Boston Uptown into one Boston Proper District and reducing the work week in that district from six to five days per week, and by combining the Roxbury and Parker Hill Fens Districts into one Roxbury District, a 12 percent increase in cost resulted from wage increases to the contractors personnel of 26 cents per hour going

from \$2.60 per hour in 1961 to \$2.86 per hour in 1964 or an increase of 10 percent, and including in the contracts for the first time the requirement that the contractors in the incinerator districts haul separately collected bulk refuse to the Gardner Street dump. A total of 236,341 tons of refuse was collected and disposed of during the year.

Program 3 — Alley Cleaning

An alley cleaning program was carried out in the South End and Lower Roxbury districts by providing daily cleaning of the alley heads and weekly cleaning of approximately six miles of alleys within this area. In December, we commenced using packer type trucks in this operation. Approximately 5,200 tons of refuse were removed during the year through this operation which has proven satisfactory as evidenced by the absence of complaints from this district.

Program 4 — Litter Baskets

The number of litter baskets on location was increased during the year from 685 to 936. Ninety-seven of the sidewalk type baskets are used in the Downtown District, and 839 pole type baskets are installed throughout the city in locations where there are accumulations of pedestrian litter. The number of sidewalk baskets were reduced from 301 to 97 and replaced with the smaller pole mounted baskets because of the tendency in some locations to use the sidewalk baskets for depositing household and commercial refuse. These baskets are emptied by the refuse collection contractors on Mondays except in the Boston Proper District when they are emptied on the regularly scheduled collection days, and are also emptied twice a week by three departmental night shift crews using packer type trucks; these activities provide approximately 155,000 servicings during the year. Six aluminum pole baskets with a locked bottom drop have been fabricated and installed in School Street and Beacon Street for a trial run early in 1965. It is planned to increase the number of litter baskets on location in 1965.

Program 5 - Market Cleaning

Under this program, the division provides two packer type trucks on Fridays and Saturdays servicing push cart peddlers and storekeepers in the Market area in the vicinity of Blackstone Street, removing approximately 2,060 tons of refuse during the year and depositing it at the South Bay Incinerator.

Program 6 — Abandoned Vehicles

The removal and disposal of abandoned vehicles from the streets and vacant lots throughout the city, taken over from the Police Department in June of 1963, was continued throughout the year. Two thousand eight hundred thirty-four vehicles were removed and disposed of, most of this work being done under a contract with the J & L Iron Company. The price for doing this work was reduced from \$8.00 to \$6.00 per car by providing the contractor with an operations area to the rear of the Public Works Garage on Albany Street. This contract work was supplemented by departmental labor force and equipment during the spring clean up season because of the exceptionally large number of abandoned vehicles occurring at that time.

Program 7 — Enforcement and Education

The squad of uniformed Sanitation Inspectors (formed in 1963) served 5,676 violation notices to property owners or householders observed violating sanitation laws, particularly in the manner of placing out refuse for collection. In only 31 cases was it necessary to request the Police to bring flagrant violators into court. This activity has resulted in the householders providing hundreds of new barrels in the areas in which this activity has been concentrated and reduced appreciably the amount of littering in the streets.

To supplement the work of the uniformed inspectors, and to obtain the cooperation of the residents, we conducted two anti-litter campaigns. An advertising agency was engaged to provide assistance and advice in public relations and to prepare the art work and assist in obtaining the cooperation of the various communi-

cations media. Two campaigns were conducted, one in the spring with the slogan, "Keep the New Boston Bright and Shiny" and the other in the fall with the slogan, "Help Keep Boston Clean." During these campaigns, signs were posted on the sides of all Public Works automotive equipment and decals placed on all the litter baskets. Car cards and posters were placed on MBTA equipment and subway stations, courtesy cards were placed in store windows, and posters were also placed on billboards. Some publicity was obtained from the newspapers; a radio jingle was used by radio stations in the Metropolitan Boston area; and four films were printed and used by the three local television stations during station breaks. In addition, signs warning of a \$50 fine for littering were printed and erected by the Traffic Commission in locations where there are large amounts of illegal littering. Advertising space and air time, estimated to have a value of \$128,000 per month, was contributed to the city, without charge, and the total cost of this campaign was \$9,345.

DISPOSAL SECTION

Program 8 — South Bay Incinerator

The South Bay Incinerator received and disposed of a total of 149,794 tons of refuse during the year from a population of approximately 464,000 people, or 66 percent of the population of the city, at a cost of \$803,361 which represents a unit price of \$5.36 per ton of refuse burnt. This operating cost was \$180,000 more than in 1963 because of increased labor costs due to the necessity of reverting to a 20 shift week caused by shutting down furnaces in order to rebuild the bridge walls and the grates on the furnaces, and the necessity for hauling the residue to Gardner Street dump when nearby disposal areas were no longer available. As this plant gets older, the maintenance cost, particularly on refractories, will accelerate.

Maintenance work performed unter the contract for repairs or alterations beyond the scope of the plant maintenance force included replacing the structural steel supporting the bridge walls and the furnace grates, the steel work being redesigned to prevent future bridge wall deflections and collapse; realignment of the crane rails; replacement of all the hydraulic pumps; repairs to steam and water lines; mechanical repairs on the cranes; repairs to the heating system; installation of an electric hot water heater; reconditioning the traps, piping and expansion joints on the steam line to the hospital; repairs to ruptures on the exterior shell of the Ric-Wil steam main; and repiping the boiler feed water supply to provide emergency feed from either end of the building in case of water service failure at one end.

The regular maintenance force of the plant, in addition to routine maintenance, replaced 15 dumping grate operating hydraulic cylinders, which relocation of the cylinders, outside the furnaces was done to prevent the burning out of the packing and the loss of considerable amounts of hydraulic oil; performed minor refractory patching and repairs; worked rebuilding the grates by removing them from the furnace, taking out the worn parts and replacing with new parts, while the maintenance contractor was doing the structural steel work; rebuilt two of the crane buckets; and relocated one of the charging gate hydraulic cylinder operating mechanisms, which has proved successful in eliminating the loss of excessive amounts of hydraulic oil, and this alteration will be made on the remaining charging gates next year. Considerable assistance was rendered by the Water Division machine shop in machining parts for repairs or replacements in the plant equipment.

The work performed under a contract for providing refractory repairs included the rebuilding of five bridge walls, replacing a large section of the roof of the number 5 furnace and making numerous other repairs to refractories. Recent failures indicate the need for renewing the suspended arches in all six furnaces.

A 40' x 30' metal storage building was constructed in the space between the stacks in the rear of the plant and a storeroom with racks was completed so that parts and other supplies can be properly stored.

A considerable number of burnouts of crane motors was experienced and investigation indicates that failure resulted from malfunctioning of the collector shoes which are being redesigned to eliminate this problem.

No steam was transmitted to the hospital because all the steam that could be generated burning rubbish was required to operate the turbine driven induced draft fans which must be used when the fly ash collectors are in operation. To eliminate this demand would require motorization of 18 pieces of steam driven equipment at a cost of \$100,000. At a meeting with hospital authorities concerning this problem, it was decided, instead of a study by a consulting engineer, to make another effort on our own to determine the ability of the incinerator to meet an appreciable part of the hospital steam demand, and the resulting savings in the cost of fuel oil at the hospital in order to arrive at a decision as to the advisability of motorizing the incinerator steam driven equipment or to abandon any future attempts to transmit steam to the hospital. Due to the amount of work required to rehabilitate the steam main, full scale transmission of steam did not commence until near the end of the year and will be continued into 1965 in order to accumulate the required data.

A heating and ventilating engineer was engaged to prepare plans and specifications for alterations to and additions to the ventilating system at the incinerator in order to eliminate or substantially reduce smoke and dust which have caused poor working conditions and a health hazard to personnel in parts of the plant. Preliminary plans were submitted and approved in November, and the final plans and specifications will be ready in January, 1965.

In July, the available dumping area for incinerator residue in a part of the Reserve Channel was exhausted and a contract was entered into for the transportation of residue from the plant yard to the Gardner Street dump, to be used as a part of the dump cover. Approximately 22,000 tons of residue was hauled during the last 5 months of the year at a cost of \$0.97 per ton.

Program 9 — Gardner Street Dump

The Gardner Street dump was operated as in former years as an open fill with earth or incinerator residue cover for the disposal of 338,824 cubic yards or 69,847 tons of rubbish from Area 2. Cover material at this site, above the ground water table, has been exhausted and consequently we had to purchase 22,300 cubic

yards of cover material which was used up at the end of July. Starting in August, and for the balance of the year, incinerator residue, hauled under contract, was used for cover material at this site.

In January, we were requested by the State Department of Public Health to prepare plans to operate the Gardner Street disposal site as a Sanitary Land Fill, and subsequently we engaged the services of Camp, Dresser & McKee to prepare a Manual of Operation for the Gardner Street Sanitary Land Fill. This manual was approved by the State Department of Public Health and it is planned to commence operating a Sanitary Land Fill as soon as the necessary equipment and funds for cover material are available. This will increase the operating costs at this site by approximately \$100,000 annually. The cost of operation for 1964 was \$81.873, and the income from dumping fees at this site was \$9,580 from licensed private collectors and \$17,029 was deducted from the payments to city contractors for the disposal of commercial refuse collected in Area 2, but outside of their contract districts, for a total income for the year of \$26,609. A municipal incinerator should be constructed at this site as soon as possible in order to conserve the remaining dumping area for the disposal of incinerator residue and material not suitable for incineration. Unless the Commonwealth provides disposal sites for the aforementioned materials, the disposal of residue and non-burnables will soon become acute and very costly to the city.

Program 10 - Saugus Dump Rental

The disposal of refuse from the East Boston district was continued during the year at the privately owned Saugus dump. The last renewal contract with the M. DeMatteo Construction Company, at a cost of \$2,000 per month expired on March 31, 1964, and a new contract was entered into with the same company at a price of \$2,500 per month with renewal options for a second and a third year with increasing monthly prices. This is the only site readily available for the disposal of East Boston rubbish, and due to the actions of the State Department of Natural Resources in restricting an area of marsh for the disposal of refuse at this site,

and the desire of the State Department of Public Health that the operation be conducted as a Sanitary Land Fill, will accelerate the cost of disposal at this site considerably over the next few years. Approximately 65,500 cubic yards or 13,100 tons were disposed of during the year at a cost of \$30,375.

Program 11 — Garbage Disposal

The garbage transfer stations at Victory Road, Dorchester, and Gardner Street, West Roxbury, were continued in operation throughout the year for disposal of garbage collected in several of the city districts. The city exercised its option and renewed contracts commencing April 1, 1964, with Kristoff Brothers for removing 10,800 cubic yards, or 3,600 tons of garbage delivered to the Victory Road transfer station, and with Kennedy Brothers for removing 15,618 cubic yards, or 5,206 tons of garbage delivered to the Gardner Street transfer station. There was no change in the weekly contract prices and the annual cost for each contract amounted to \$13,100. Due to the statute requiring cooking of garbage before feeding to hogs, and the steadily declining number of piggeries in the State, the problem of garbage disposal becomes more acute each year and another method of disposal will have to be found in the very near future. However, for the present this is the least costly arrangement that can be made for garbage disposal.

Personnel In-service Training Program

The Administrative Section of the Sanitary Division acted as liaison between the department and Northeastern University in the preparation of contracts for providing In-Service Training for departmental personnel and in making arrangements for establishing the courses and selecting personnel to attend the same, and also acted as liaison between the department and the Administrative Services Department Training Coordinator in the arrangement of courses and the selection of personnel in programs set up by that office.

During 1964, the department contracted with Northeastern University to make a "Survey of the Educational

and Training Need of Technicians, Supervisors and Managerial Employees of the Department", conducted in three phases; (1) an examination and evaluation of the structures and functioning of the entire department; (2) a study and evaluation of the need for a continuing program of on-the-job and/or off-the-job education and training, and (3) submission of recommendations concerning suggested changes in the department structure and an outline of the scope, content, plan of operation and cost of conducting a program of education and training. A complete report was submitted including job descriptions, duties and requirements, for all key supervisory personnel of the department.

Pursuant to the above study, arrangements were made for courses to be conducted by Northeastern University on the "Fundamentals of Public Works Construction", and on "Management of Automotive Equipment Maintenance", both to be started early in 1965.

In cooperation with the Training Coordinator, Administrative Services Department, 15 engineering employees from various divisions of the department were enrolled in a five-year course leading to a Degree of Associate in Civil Engineering at Lowell Technological Institute, and several clerical employees attended stenographic and typing courses conducted at South Boston High School.

Snow Removal

The Snow Emergency Center continued in its fourth year of operation at the Civil Defense office located in the Fire Headquarters building during the snow season under the direction of Division Engineer and Deputy Commissioner, John F. Flaherty, as chairman. This unit is supervised by the Administrative Section of the Sanitary Division. The coordinating table of the center has representatives of several departments, as well as the utility companies. This center processed hundreds of calls from the general public to the agency or department involved during the storms which occurred in 1964. The center, in addition to the department representa-

tives, also has a unique communications system consisting of short-wave radios to Public Works, Traffic and Fire Headquarters, and a direct "hot line" to the Public Works Department Snow Headquarters, Mayor's Office, MBTA and each Police station, and a teletypewriter to each Public Works district yard and snow headquarters. The center is called into operation at the onset of any snowfall with a skeleton force. As the storm forecast predicts heavier snowfall, additional personnel and table representatives are activated to operate the center in assisting the general public. Emergency Center handles all press, radio and television releases during all snowstorms, keeping the public informed on all storm activities. The center was activated during the Bellflower Street fire and is organized to function as a communications center during any type of natural disaster.

SEWER DIVISION

The Sewer Division is responsible for the construction replacement, maintenance and repair of the city's sanitary sewers, surface drains, catch basins and various appurtenances, and the operation and maintenance of pumping stations and a disposal plant.

The division is organized in three sections—Adminis-

trative, Construction and Maintenance.

The Administrative Section is responsible for preparing budgetary requests; maintenance of time records; preparing, purchasing, and service orders and receiving notices; handling correspondence, processing estimates on contract work; keeping records; and adjusting sewer use accounts.

The Construction Section is responsible for the engineering and inspection of the sewerage works program, from field layout through to final inspection and acceptance. During the year expenditures from the sewer loan amounted to \$1,050,568, and \$423,464, unliquidated encumbrances.

In connection with the building of the War Memorial Auditorium it was necessary to relocate the West Side intercepting sewer, which flows southerly, and a large main sewer which was laid in the same trench

with the intercepting sewer and above the interceptor. Hydraulic characteristics were such that the main sewer had to flow northerly at this locus. Flows in both sewers had to be maintained during construction, creating quite an engineering problem. A contract to do this work was approved in May and work was completed in January, 1965, without curtailing service.

The Maintenance Section is responsible for the operation of the sewerage and surface drainage system comprising 1,347.16 miles of common sewers and surface drains, and 30.93 miles of intercepting sewers; pumping stations at the Calf Pasture, Union Park Street, Symphony Station, Summer Street and Sullivan Square; and a disposal plant at Moon Island. The total pumpage at the Calf Pasture station amounted to 42,765 million gallons for the year or an annual daily average of 117.16 million gallons, at a cost of \$6.47 per million gallons. The sewer maintenance expenditures for 1964 amounted to \$795,889.

Sewage from Boston Proper, South Boston, parts of Roxbury, Dorchester, and West Roxbury outlets through the Calf Pasture—Moon Island Disposal Plant. Sewage from East Boston and Charlestown flows into the metropolitan system for discharge at Deer Island, and sewage from Brighton, Hyde Park, and parts of Roxbury, Dorchester, and West Roxbury flows into the metropolitan system and is discharged at Nut Island. A small portion of Dorchester and Milton in the metropolitan sewage area, lying at an elevation too low to drain into the metropolitan high level sewer, is discharged into the Boston main drainage system, for which disposal in 1960 the Metropolitan District Commission paid the city \$32,601.45.

WATER DIVISION

The Water Division has the care, control and maintenance of the distributing mains supplying the potable water to the city. The source of supply is the Metropolitan District Commission, which agency supplies the city at the city line. Although the law requires that the pressure be sufficient to distribute by gravity, there were

approximately 100 residences in Hyde Park, that required the use of a small city pump, during peak loads in the summer season. This situation will be eliminated in 1965, by a connection to the extra high service. The Water Division also supplies water to the two high pressure pumping stations operated by the Fire Department, for protection of the central business section of the city.

The Water Division is composed of four sections—Administration, Construction, Maintenance and Revenue

The Administrative Section handled, prepared and processed correspondence; initiated requisitions and supply orders; prepared contract payments and maintained records.

The Construction Section supervised the relaying of 1.33 miles of mains from 4 inches to 16 inches in diameter; the extension of 3.99 miles of new mains; and 43 hydrants.

The Maintenance Section is responsible for the operation and maintenance of the water distributing system comprising 1,040.79 miles ranging in size from 2 inches to 48 inches in diameter; 18.64 miles of high pressure fire service pipes and including gates, valves, hydrants, and other appurtenances.

This section provided for the repair of main pipes, service pipes, hydrants and gates; and furnished emergency service on a 24-hour basis, seven days a week. The city labor was augmented by contract personnel in excavating and backfilling trenches.

The section operates a maintenance shop, including machine, plumbing and meter units.

The Revenue Section performs all the work involved in operating a utility business with 97,000 customers. The work involved includes the processing of old and new accounts; reading of meters; computing bills; adjusting errors in billing; and processing abatements. As the sewer use charge is based on the water supplied the user, this section processes sewer use abatements based on adjusted water use. Technical sewer abatements are made by the Sewer Division.

The contract with the Pitometer Associates to survey the water waste in area No. 2 is 49 percent completed. This survey has disclosed leakage totalling 1,428,000 gallons per day since its inception. The Metropolitan water assessment in 1964, based on water use of 44,298,697 gallons in 1963, amounted to \$5,315-843.64 and water revenue amounted to \$10,386,105. A surplus of \$579,241 resulted from water operations.

FISCAL

Total expenditures in 1964 for Public Works amounted to \$27,917,263, of which \$5,315,843 represents water assessments and \$1,589,574 represents sewer assessments paid to the Metropolitan District Commission. The water assessment was \$182,876 higher than 1963; and the sewer assessment \$162,640 more than 1963.

The general policy of prudence in the expenditures of taxpayers' money was continued during the year, resulting in an unencumbered balance of \$4,471,330.

Appended hereto is the report submitted by the Public Improvement Commission and statistical data relative to the activities of the various divisions.

Respectfully submitted,

James W. Haley, Commissioner of Public Works.

ANNUAL REPORT

OF THE

PUBLIC IMPROVEMENT COMMISSION

FOR THE YEAR ENDING DECEMBER 31, 1964

January 4, 1965.

Hon. John F. Collins, Mayor of Boston

Through the Commissioner of Public Works

DEAR MR. MAYOR:

In accordance with the provisions of Section 24, Chapter 3, of the Revised City Ordinances of 1947, the following report of the Public Improvement Commission for the year ending December 31, 1964, is respectfully submitted.

STREET PROGRAM

During the period covered by this report, three hundred one (301) highway improvements were ordered by the Public Improvement Commission, including the laying out of thirty-two (32) new highways, the construction of fifty-eight (58) new sidewalks, the widening and relocation of one hundred nine (109) public ways, the making of specific repairs in eighty-four (84) existing streets, the discontinuance of sixteen (16) streets, and the relocation and revision of grade of two (2) streets.

LAYOUTS WITH CONSTRUCTION

The following streets were ordered laid out and constructed as public ways during the year 1964:

Boxford terrace, West Roxbury, from Park street approximately 200 feet southwesterly. Length, 200 feet. Estimated cost, \$8,557. Estimated benefit, \$4,277.70.

Camelot court, Brighton (formerly Colon street), from Gordon street to Warren street. Length, 710 feet.

Charlame place, Roxbury, from Ottawa street approximately

160 feet southerly. Length, 160 feet.

Charlame street, Roxbury, (formerly Ottawa street), from Laurel street approximately 590 feet easterly and approximately 220 feet northerly of Catawba street. Length, 810 feet.

David road, West Roxbury, from Moss Hill road approximately 520 feet southwesterly. Length, 520 feet. Estimated cost, \$16,182. Estimated benefit, \$8,091.

Earnshaw street, West Roxbury, from Miami avenue approxi-

mately 186 feet southeasterly. Length, 186 feet.

Elm Lawn, Dorchester, from Centre street approximately 250 feet northerly. Length, 250 feet.

Gerrish street, Brighton, from Brooks street approximately 520 feet northwesterly. Length, 520 feet. Estimated cost. \$19,900. Estimated benefit, \$9,949.98.

Gerrish street, Brighton, from a point approximately 520 feet northwest of Brooks street, and approximately 300 feet northwesterly. Length, 300 feet. Estimated cost, \$12,381. Estimated benefit, \$6,190.51.

Glencliff road, West Roxbury, from a point approximately 580 feet southeasterly of Poplar street to Dale street. Length,

755 feet. Estimated cost, \$20,990. Estimated benefit, \$10,495. Holly road, West Roxbury, from Jewett street approximately 330 feet southeasterly. Length, 330 feet. Estimated cost, \$15,150. Estimated benefit, \$7,575.

Humboldt court, Roxbury, from Humboldt avenue approximately 215 feet easterly and northerly. Length, 215 feet.

Laurel street, Roxbury, from a point approximately 375 feet south of Dale street to Humboldt avenue. Length, 480 feet.

Manion road, Hyde Park, from Westminster street to Safford street. Length, 475 feet. Estimated cost, \$20,000. Estimated benefit, \$9,999.97.

Manley street, Dorchester, from Victory road to Newkirk street. Length, 290 feet. Estimated cost, \$9,343. Estimated benefit, \$4,671.50.

Mt. Washington avenue, Boston Proper, from Granite street

to A street. Length, 330 feet.

McDonald avenue, Brighton, from Everett street to Speed-Length, 470 feet. Estimated cost, \$20,000. way avenue. Estimated benefit, \$10,000.

Newkirk street, Dorchester, from Neponset avenue to approximately 75 feet east of Manley street. Length, 275 feet. Estimated cost, \$7,859. Estimated benefit, \$3,550.37.

Norris road, Hyde Park, from Metropolitan avenue approximately 376 feet westerly. Length, 376 feet. Estimated cost, \$18,434. Estimated benefit, \$7,911.

North Charlame court, Roxbury, from Ottawa street ap-

proximately 120 feet northerly. Length, 120 feet.

North Charlame terrace, Roxbury, from Ottawa street ap-

proximately 120 feet northerly. Length, 120 feet.

Providence street, Hyde Park, from Washington street to Metropolitan avenue. Length, 2,481 feet. Estimated cost, \$54,314. Estimated benefit, \$27,160.47.

Rockwood terrace, West Roxbury, from Rockwood street approximately 480 feet easterly and southerly. Length, 480 feet. Estimated cost, \$20,000. Estimated benefit, \$9,999. Searle road, West Roxbury, from Maplewood street approxi-

Searle road, West Roxbury, from Maplewood street approximately 180 feet northeasterly. Length, 180 feet. Estimated cost, \$7,765. Estimated benefit, \$3,882.50.

South Charlame court, Roxbury, from Ottawa street ap-

proximately 165 feet southerly. Length, 165 feet.

South Charlame terrace, Roxbury, from Ottawa street ap-

proximately 172 feet southerly. Length, 172 feet.

Trilling Way, South Boston, from Northern avenue approximately 300 feet southwesterly. Length, 300 feet. Estimated cost, \$19,200. Estimated benefit, \$9,520.

Violet street, Dorchester, from Delhi street to Crossman street. Length, 300 feet. Estimated cost, \$35,147. Esti-

mated benefit, \$17,573.50.

William Cardinal O'Connell Way, Boston Proper, from

Staniford street approximately 330 feet westerly.

Willow avenue, Hyde Park, from Providence street to Hyde Park avenue. Length 350 feet.

LAYOUTS WITHOUT CONSTRUCTION

Carlson road, Hyde Park, from the Boston-Milton line approximately 70 feet southwesterly. Length, 70 feet.

Granite street, South Boston (formerly Richards street), from Granite street to A street. Length, 260 feet.

WIDENINGS AND RELOCATIONS

Adams street, Dorchester, at the northeasterly corner of Fellsway street.

Alabama street, Dorchester, at the northwesterly and south-

westerly corners of Currier street.

Alban street, Dorchester, at the southwesterly corner of Welles avenue; and the northeasterly and northwesterly corners of Ashmont street.

Ashland street, Dorchester, at the northwesterly corner of Ashland street; and the southwesterly, northeasterly and southeasterly corner of Elm street.

Aspinwall road, Dorchester, at the northwesterly, northeasterly and southeasterly corner of Whitfield street; and the southeasterly corner of Hopestill street.

Beach street, Dorchester, 100 feet north of Park street; and

270 feet north of Park street.

Beaver street, Hyde Park, at the northeasterly and southeasterly corners of Reservation road; and the southeasterly and southwesterly corners of Cleveland street.

Bernard street, Dorchester, at the northeasterly and south-

easterly corners of Tonset street.

Bigelow street, Brighton, at the northeasterly corner of Faneuil street; and the northeasterly corner of Perthshire road.

Birch street, West Roxbury, at the northeasterly and northwesterly corners of Penfield street; and the northeasterly, northwesterly, southeasterly and southwesterly corners of Albano street.

Blanche street, Dorchester, at the northwesterly and northeasterly corners of Victory road; and the southwesterly and

southeasterly corners of Green Hill street.

Bower street, Roxbury, from Warren street to Humboldt

avenue.

Bowman street, Dorchester, at the southeasterly corner of Blackwell street; and the northeasterly corner of Chickatawbut street.

Boylston street, Boston Proper, from Dalton street approximately 420 feet easterly.

Brentwood street, Brighton, at the southeasterly and south-westerly corners of Athol street.

Browning avenue, Dorchester, at the southerly corner of Bernard street.

Carol avenue, Brighton, at the northwesterly corner of Allston street.

Carroll street, West Roxbury, at the northerly and westerly corners of Vermont street; northerly, westerly, easterly and southerly corners of Keith street; northerly, westerly and easterly corners of Lasell street; and the easterly and southerly corners of Glenham street.

Caspian Way, Dorchester, at the southeasterly corner of Savin Hill avenue.

Castlegate road, Dorchester, at the northeasterly corner of Normandy street.

Chesterfield street, Hyde Park, at the southeasterly and southwesterly corners of Readville street.

Child street, Hyde Park, at the northeasterly corner of Reservation road; and the southwesterly and southeasterly corners of Cleveland street.

Condor street, East Boston, at the westerly corner of Glendon street; and the easterly corner of East Eagle street, southerly side.

Corona street, Dorchester, at the northeasterly corner of Bowdoin street.

Cowing street, West Roxbury, at the northwesterly corner of Alleyne street.

Cowing street, West Roxbury, at the northerly and westerly corners of Washington street; and the easterly and southerly corners of Partridge street.

D street, South Boston, at the northeasterly corner of West Seventh street; southwesterly corner of Gold street; and the

northwesterly corner of Athens street.

Dahlgren street, Dorchester, at the northeasterly and north-

westerly corners of Corona street.

Dana avenue, Hyde Park, at the northeasterly, northwesterly, southwesterly and southeasterly corners of Loring street; and the northeasterly and northwesterly corners of Washington street.

Dartmouth street, Boston Proper, from St. James avenue to Boylston street.

Ditson street, Dorchester, at the southeasterly and south-

westerly corners of Charles street.

Dorchester avenue, Dorchester, at the southwesterly corner of Mayfield street.

East street, Dorchester, at the northeasterly corner of Winter street.

East Cottage street, Dorchester, at the southerly corner of Dawes street.

Elbert street, Roxbury, from Humboldt avenue to Hazelwood street.

Ellet street, Dorchester, at the northeasterly and southeasterly corners of Adams street; and the southwesterly corner of Dorchester avenue.

Ellington street, Dorchester, at the southeasterly corner of Erie street.

Everdean street, Dorchester, at the southeasterly corner of Ashland street; northerly and southerly corners of Blanche street; northeasterly and southeasterly corners of Green Hill street; and the northeasterly corner of Victory road.

Everett street, Dorchester, at the westerly corner of Elm street.

Forsyth street, Roxbury, at the northeasterly corner of Huntington avenue.

Garnet road, West Roxbury, at the easterly and southerly corners of Farmington road; and the westerly corner of Weld street.

Glenham street, West Roxbury, at the northerly, southerly and easterly corners of Atlantis street; and the easterly, southerly and southeasterly corners of Perham street.

Gordon street, Brighton, at the northwesterly and southwesterly corners of Ridgemont street.

Granite avenue, Dorchester, at the northwesterly and southwesterly corners of Beaufield street; and the northeasterly and northwesterly corners of Milton street.

Greycliff road, Brighton, 600 feet northeasterly of Commonwealth avenue; and the northwesterly and southwesterly corners of Foster street.

Hallowell street, Dorchester, at the northwesterly and

southwesterly corners of Newcastle street.

Hancock street, Dorchester, at the southwesterly and southeasterly corners of High street.

Harwich street, Boston Proper, from Yarmouth street to

Truro street.

Haydn street, West Roxbury, at the northerly corner of Washington street; and the easterly corner of Nikisch avenue. Hayes road, West Roxbury, at the easterly and southerly corners of Birch street; northerly and easterly corners of Filomena road; and the northwesterly and southwesterly

corners of Washington street.

Hazelwood street, Roxbury, from Townsend street to Munroe street.

Hazelwood street, Roxbury, at the northeasterly corner of Townsend street; and the southeasterly corner of Munroe

street.

Hobson street, Brighton, at the northeasterly corner of Faneuil street; northeasterly and southeasterly corners of Bothwell road; northeasterly and southeasterly corners of Newcastle road; northeasterly and southeasterly corners of Donnybrook road; and the southeasterly and southwesterly corners of Hobart street.

Humboldt avenue, Roxbury, from Walnut avenue to Town-

send street.

Intervale street, Roxbury, at the southwesterly and northeasterly corners of Normandy street; northeasterly and northeasterly corners of Fernboro street; northwesterly and northeasterly corners of Intervale terrace; easterly corner of Coleus park; and the northwesterly and northeasterly corners of Magnolia street.

Iola street, Dorchester, at the southeasterly corner of Talbot avenue.

King street, Dorchester, at the northeasterly corner of Adams street; southeasterly corner of Daly street; and the northeasterly and northwesterly corners of Elmdale street.

Lawrence avenue, Dorchester, at the southeasterly corner of Normandy street; southwesterly and southeasterly corners of Fernboro street; southwesterly corner of Coleus park; and the southwesterly corner of Magnolia street.

Leniston road, West Roxbury, at the southwesterly corner of Walworth street.

Lorraine street, West Roxbury, at the northeasterly and northwesterly corners of Colberg avenue.

Malta street, Hyde Park, at the southwesterly corner of River street.

Marden avenue, Dorchester, at the northwesterly corner of Willowwood street.

Melbourne street, Dorchester, at the northeasterly and northwesterly corners of Welles avenue; northwesterly and southwesterly corners of Brent street; and the southwesterly corner of Centre street.

Monson street, Dorchester, at the northeasterly and southeasterly corners of Sturbridge street; and the northwesterly corner of Caddy road.

Montvale street, West Roxbury, at the southwesterly corner

of Colberg avenue.

Mt. Bowdoin terrace, Dorchester, at the southeasterly and southwesterly corners of Eldon street; and the northeasterly and northwesterly corners of Mallon road.

Mt. Everett street, Dorchester, at Hamilton street.

Munroe street, Roxbury, over a portion of Hazelwood street from a point approximately 35 feet east of Hazelwood street, approximately 215 feet, westerly.

Nahant avenue, Dorchester, at the southeasterly corner of

Adams street.

Narragansett street, Dorchester, at the northwesterly corner of Minot street; and the southwesterly corner of Chickatawbut street.

Nikisch avenue, West Roxbury, at the southerly corner of Mendelssohn street; and the westerly and southerly corners

of Beech street.

Normandy street, Dorchester, at the northwesterly corner

of Seaver street.

Norway park, Hyde Park, at the northwesterly and northeasterly corners of Summit street; and the southeasterly corner of Warren avenue.

Norwell street, Dorchester, at the northwesterly, southeasterly and southwesterly corners of Wheatland avenue;

and the northwesterly corner of Talbot avenue.

Ocean street, Dorchester, at the northeasterly corner of Ashmont street; southwesterly and southeasterly corners of Welles avenue; and the northerly and southerly corners of Mellen street.

Opera place, Roxbury, at the northeasterly corner of St.

Stephen street.

Opera place, Roxbury, from Huntington avenue to St. Stephen street.

Parish street, Dorchester, from Winter street to dead end. Park street, Dorchester, at the northeasterly and south-easterly corners of Norwell street; northeasterly and south-easterly corners of Millet street; northwesterly and south-westerly corners of Spencer street; northeasterly corner of Thane street; southeasterly corner of Wbitfield street; north-westerly and northeasterly corners of Merlin street; and the northwesterly corner of Elwyn road.

Pasadena road, Dorchester, at the southeasterly corner of Blue Hill avenue; southwesterly corner of Normandy street;

and the southwesterly corner of Columbia road.

Pleasant street, Dorchester, at the southwesterly corner of Sawyer avenue; southerly corner of Thornley street; and the southerly corner of Whitby terrace.

Poplar street, West Roxbury, at the northwesterly corner of

Washington street.

Radcliffe street, Dorchester, at the southeasterly corner of Vassar street.

Robeson street, West Roxbury, at the northerly and southerly corners of Forest Hills street; and the northerly corner of

Sigourney street.

Rogers Park avenue, Brighton, at the southeasterly corner of Lake street; southwesterly and southeasterly corners of Willoughby street; and the southeasterly corner of Foster street.

Ronan street, Dorchester, at the northeasterly and south-

easterly corners of Bellevue street.

Roslin street, Dorchester, at the northerly and southerly corners of Ocean street; northeasterly and northwesterly corners of Harley street; southeasterly and southwesterly corners of Montague street; northeasterly and northwesterly corners of Grace street; and the northerly side at a bend of 90 feet east of Grace street.

Roxana street, Hyde Park, at the southwesterly corner of

Charles street.

St. Alphonsus street, Roxbury, from Tremont street approximately 150 feet southwesterly.

St. James avenue, Boston Proper, from a point approximately 40 feet east of Trinity place to Dartmouth street.

Shafter street, Dorchester, at the southwesterly corner of Vassar street.

South street, West Roxbury, at the southwesterly corner of

Washington street.

Southwick street, Dorchester, at the northeasterly and southeasterly corners of Neponset avenue; northwesterly and northeasterly corners of Salina road; and the northwesterly and southwesterly corners of Freeport street.

Spencer street, Brighton, at the northeasterly and south-

easterly corners of Athelwold street.

Standard street, Dorchester, at the northeasterly and northwesterly corners of River street; and the northeasterly and southeasterly corners of Menton street.

Staniford street, Boston Proper, from Cambridge street to

Merrimac street.

Stanley street, Dorchester, at the northeasterly and north-westerly corners of Bellevue street.

Supple road, Dorchester, at the northeasterly and north-westerly corners of Normandy street.

Symmes street, West Roxbury, at the westerly corner of Fairview street.

Tarleton road, West Roxbury, at the northerly corner of Chesbrough road; southerly corner of Temple street; and the northerly and westerly corners of Sanborn avenue.

Tiverton road, Dorchester, at the southeasterly corner of Lorna road; southwesterly and southeasterly corners of Stow

road; and the southwesterly corner of Glenhill road.

Tolman street, Dorchester, at the southeasterly corner of Neponset avenue; and the northeasterly corner of Bloomington street.

Train street, Dorchester, at the northeasterly and southeasterly corners of Thelma road; northeasterly and southeasterly corners of Agawam street; northeasterly, northwesterly and southwesterly corners of King street; northwesterly and southwesterly corners of Rosemont street; northeasterly and southeasterly corners of North Munroe terrace; northeasterly and southeasterly corners of Boutwell street; southwesterly corner of Westglow street; and the northwesterly corner of Rosselerin road.

Trinity place, Boston Proper, from Boylston street to St.

James avenue.

West street, Hyde Park, at the northwesterly, northeasterly, southeasterly and southwesterly corners of Davison street; northwesterly and southwesterly corners of Pierce street; and 110 feet northwesterly at the corner of Davison street.

West Milton street, Hyde Park, at the northwesterly and northeasterly corners of Ernest street; northwesterly and northeasterly corners of Vallaro road; and the southwesterly and southeasterly corners of Roberts place.

Wheatland street, Dorchester, at the southeasterly corner of Whitfield street; southwesterly corner of Spencer street; and

the southeasterly corner of Millet street.

Wilkinson park, Dorchester, at the northeasterly corner of

East street.

Winslow street, Hyde Park, at the southeasterly and southwesterly corners of Child street; and the northwesterly and southwesterly corners of River street.

Specific Repairs

Adams Street, Dorchester, at Milton street, Gallivan Boulevard and Cedar Grove Cemetery.

Albion street, Hyde Park, at northwest and southwest Beacon street (Incr. curb radii).

Albion street, Hyde Park, from Highland street to Beacon street (Sw increase).

Arlington street, Hyde Park, at Metropolitan avenue.

Ashland street, Dorchester, northeasterly Park street.

Aspinwall road, Dorchester, at southwest Hopestill street.

Beach street, Dorchester, westerly side at bend approx. 300 feet northeast Park street.

Belgrade avenue, West Roxbury, at Centre street. Belgrade avenue, West Roxbury, at Birch street.

Bigelow street, Brighton, at various locations from Faneuil street, to Brooks street.

Bigelow street, Brighton, at Perthshire road, Hardwick

street, and Brooks street.

Boylston street, Boston, on the southerly side from Massachusetts avenue to Dartmouth street.

Carol avenue, Brighton, at Commonwealth avenue. Castlegate road, Dorchester, at Blue Hill avenue.

Chelsea street and Chestnut street, Charlestown, elimination of traffic divisional island at their intersection.

Child street, Hyde Park, at Reservation road.

Colbert street, West Roxbury, at southerly corner of Rhoda street.

Columbia road, Dorchester, at northeast and northwest Seaver street.

Cclumbine street, Dorchester, at southeast Blue Hill avenue.

Condor street, East Boston, from Brooks street.

Condor street, East Boston, at Meridian street, Brooks street, Putnam street, East Eagle street, Glendon street.

Corey street, West Roxbury, installation of traffic island at

Weld street.

Corey street, West Roxbury, increasing curb radii at both corners of Henshaw terrace and bend at southerly side opposite Ruskin street.

Corona street, Dorchester, at Bowdoin street and Geneva avenue.

D street, South Boston, increasing the curb radii.

Dartmouth street, Boston, installation of traffic island, from St. James avenue to Boylston street.

East Cottage street, Dorchester, southerly Sumner street,

westerly Chase street.

East Cottage street, Dorchester, at Pleasant street, installation of traffic divisional islands.

Ellet street, Dorchester, at Dorchester avenue.

Ellington street, Dorchester, northerly, southerly, and westerly Erie street.

Everett street, Dorchester, southwesterly Mill street, southerly Elm street.

Garden street, Brighton, at Cambridge and North Beacon streets.

Gerald road, Brighton, at Commonwealth avenue.

Glenham street, West Roxbury, increasing curb radii at bend on southerly side approx. 100 feet southwest of Perham street and at westerly corner of Atlantic street.

Granite street, South Boston, various locations between Baldwin street and Mt. Washington avenue.

Greycliff road, Brighton, at Commonwealth avenue and Gerald road.

Hancock street, Dorchester, at Francis G. Kane square.

Hancock street, Dorchester, easterly High street, approximately 50 feet to Dorchester avenue.

Hobson street, Brighton, at Faneuil street.

Huntington avenue, Roxbury, at Longwood avenue (wid. MBTA reservation).

Hyde Park avenue, Hyde Park, at Parkson street and Mill-

stone road.

Intervale street, Dorchester, easterly and southerly Blue Hill avenue, northwesterly Coleus Park, northerly and westerly Columbia road.

Iola street, Dorchester, at northeast and northwest Tonset

street and southwest Talbot avenue.

King street, Dorchester, at southeast Adams street and southwest Daly street.

Lawrence avenue, Dorchester, southerly Blue Hill avenue,

westerly Normandy street, easterly Mascoma street.

Lawrence avenue, Dorchester, Blue Hill avenue to Magnolia street.

March avenue, West Roxbury, from Bellevue street to Park treet.

Marden avenue, Dorchester, southerly Willowwood street.

Marden avenue, Dorchester, southerly at bends approximately 75 feet and 100 feet west Willowwood street.

Malta street, Hyde Park, at River street and Edgewater

Drive.

Melbourne street, Dorchester, at southeast Centre street.

Midvale road, West Roxbury, increasing curb radii at both corners of Maple street.

Mill street, Dorchester, westerly Victory road, northwesterly and southwesterly Ashland street, southwesterly Everett street.

Monson street, Dorchester, at northwest and southwest

Temple street.

Montvale street, West Roxbury, increasing curb radii at northerly corner of Colberg avenue and northerly, easterly and westerly corners of Iona street.

Nahant avenue, Dorchester, at southwest Newhall street.

Normandy street, Dorchester, at Columbia road and Seaver street.

Norwell street, Dorchester, at southwest Park street.

Parish street, Dorchester, reduction in sidewalk on northerly side from Winter street to dead end.

Park street, Dorchester, southwesterly Millet and Whitfield street.

Pleasant street, Dorchester, 2 corners Roach street, southerly Thornby street, 2 corners Hesston terrace southerly Pearl street, 2 corners Victoria street, Mayfield street, Trescott,

Willis, Taft, Howe streets, southerly Morrill, Hinckley, East Cottage streets, 2 corners Downer avenue, northerly Mayfield

street.

Pleasant street, Dorchester, sidewalk included between Greenmount street and Roach street from southerly Savin Hill avenue to approximately 50 feet northerly, Hesston terrace to

Whitby terrace.

Pleasant street, Dorchester, approximately 50 feet south Sawyer avenue approximately 50 feet north Sawyer avenue, approximately 100 feet North Victoria to Victoria street, Victoria street to Mayfield street, Mayfield street to Taft street, Hinckley street to Willis street, Willis street to East Cottage street, Taft street to Howes street, Howes street to East Cottage street.

Raymond street, Brighton, at Everett street.

Remington street, Dorchester, at both corners of Nixon street.

Reservation road, Hyde Park, at Hyde Park avenue.

Reservation road, Hyde Park, at Business street.

Roslin street, Dorchester, on southerly side at bend approximately 35 feet easterly of Montague street.

St. Alphonsus street, Roxbury, at Milton street, Gallivan

Boulevard and Cedar Grove Cemetery.

Sanderson place, Brighton, at southeast and southwest corners of Faneuil street.

Seaver street, Dorchester, at Normandy street. Supple road, Dorchester, Blue Hill avenue. Supple road, Dorchester, at Normandy street.

Symmes street, West Roxbury, increasing curb radii at northerly corner of Fairview street and easterly corner of Walter street.

Tarleton road, West Roxbury, increasing curb radii at westerly corner of Temple street.

Tiverton road, Dorchester, easterly Owen street.

Train street, Dorchester, northeast and northwest Westglow street, southeast South Munroe terrace and southeast King street.

Washington street, West Roxbury, at South street, installation of traffic island.

Welland road, West Roxbury, increasing curb radii at both corners of Sanborn avenue and Temple street.

West street, Hyde Park, 110 feet northwest of Davison street.

Westcott street, Dorchester, at Talbot avenue.

West Milton street and Milton street, Hyde Park, installation of traffic divisional islands.

West Milton street, Hyde Park, increasing the curb radii.

Wheatland avenue, Dorchester, at northeast Millet street.

SIDEWALKS

In connection with the recently enacted Chapter 245 of the Acts of 1958, the Public Improvement Commission ordered the installation of artificial stone sidewalks on the following streets:

Alabama street, Dorchester, from Currier street to Monterey avenue.

Albion street, Hyde Park, from Highland street to Beacon treet.

Arlington street, Hyde Park, from River street to Pierce street.

Ashland street, Dorchester, from Park street to Everdean street

street.

Aspinwall road, Dorchester, from Washington street to

Talbot avenue.

Bayswater street, East Boston, from Annavoy street to

Bayswater street, East Boston, from Annavoy street to Nancia street.

Beach street, Dorchester, from Park street to Freeport street.

Bernard street, Dorchester, from Talbot avenue to a point approximately 110 feet north of Tonset street.

Blanche street, Dorchester, from Victory road to Green Hill street.

Bonad road, West Roxbury, from Highland street to Beacon street.

Carroll street, West Roxbury, from Vermont street to Glenham street.

Charlesview street, Brighton, at various locations from Bigelow street to Brooks street.

Chesterfield street, Hyde Park, from Neponset Valley Parkway to Readville street.

Child street, Hyde Park, from Reservation road to Cleveland street.

Clare avenue, West Roxbury, from American Legion Highway (Meacham street) approximately 190 feet northerly.

Columbia road, South Boston, northerly between Covington street and G street.

Columbia road, South Boston, adjacent to No. 1360.

Corey street, West Roxbury, from Centre street to the Newton Boundary Line.

Cowing street, West Roxbury, from Washington street to Partridge street.

Dana avenue, Hyde Park, from Truman Highway to Washington street.

Ellet street, Dorchester, at various locations from Adams street to Dorchester avenue.

Everdean street, Dorchester, from Ashland street to Victory road.

Everett street, Dorchester, from Park street to Mill street.

Fern street, Brighton, from Franklin street to Holton street. Glenham street, West Roxbury, from Veterans of Foreign Wars Parkway to La Grange street.

Gordon street, Brighton, at various locations from North

Beacon street to Colon street.

Hallowell street, Dorchester, from Cummins Highway to beyond Newcastle street.

Hyde Park avenue, Hyde Park, from Wolcott square south-

erly to Millstone street.

Iola street, Dorchester, from Talbot avenue to Tonset street. King street, Dorchester, from Dorchester avenue to Train street.

Lincoln street, Dorchester, on the southerly side at Dor-

chester avenue.

Lorraine street, West Roxbury, from Colberg avenue to Iona street.

Malta street, Hyde Park, from River street to Edgewater

Drive.

Marden avenue, Dorchester, from Willowwood street approximately 275 feet westerly to dead end.

Mill street, Dorchester, from Victory road to Freeport street.

Monson street, Dorchester, from Temple street to Sturbridge

Mt. Hood road, Brighton, at various locations from Commonwealth avenue to Carey road.

Nahant avenue, Dorchester, from Adams street to Newhall

street.

Narragansett street, Dorchester, from Minot street to Chickatawbut street.

Norway Park, Hyde Park, from Warren avenue to Summit street.

Ocean street, Dorchester, from Ashmont street to Welles

avenue.

Parish street, Dorchester, southerly Winter street to dead

Park street, Dorchester, from Norwell street to Washington street.

Poplar street, West Roxbury, from Beech street approximately 800 feet southwesterly.

Radcliffe street, Dorchester, from Harvard street to Vassar street.

Remington street, Dorchester, from Centre street to Nixon street.

Robeson street, West Roxbury, from Forest Hills street to Sigourney street.

Roslin street, Dorchester, from Washington street to Ocean street.

Roxana street, Hyde Park, from River street to Sunnyside street.

Seaver street, Dorchester, northeasterly side from Normandy street to Columbia road.

Southwick street, Dorchester, from Freeport street to Neponset avenue.

Tarleton road, West Roxbury, from Temple street to Chesbrough road.

Temple street, Dorchester, from River street to Manchester

Tiverton road, Dorchester, from Lorna road to Glenhill road. Train street, Dorchester, from Ashmont street to Victory

Walbridge street, Brighton, from Commonwealth avenue to

the Brookline Town Line.

West street, Hyde Park, from River street to Pierce street. Winslow street, Hyde Park, from River street to Child street.

DISCONTINUANCES

Allen street, Boston Proper, portion of Allen street, southerly side approximately 341 feet east of Charles street, approximately 355 feet easterly.

Baldwin street, South Boston, from Granite street to A street. Centre street, West Roxbury, on the easterly side from

Northdale road approximately 120 feet southerly.

Centre street, West Roxbury, on the easterly side from a point approximately 400 feet north of Stimson street to approximately 400 feet northerly.

Comins terrace, Roxbury, from Bower street approximately

160 feet southerly.

Gerald street, Roxbury, from George street to Howard street. Granite street, South Boston, between Richards street and Baldwin street.

Hanover street, Boston Proper, on the easterly side between

Harris and Clark streets.

Huntington avenue, Boston Proper, from Boylston street to Dartmouth street.

Jay street, South Boston, from East Fourth street approxi-

mately 165 feet southerly.

Laurel street, Roxbury, approximately 375 feet south of Dale street, to Humboldt avenue.

Munroe street, Roxbury, from Humboldt avenue approxi-

mately 245 feet easterly.

Ottawa street, Roxbury, approximately 590 feet east of Laurel street.

School street, Boston Proper, from a point approximately 12 feet southwesterly on Washington street, approximately 7 feet southwesterly, and from a point approximately 21 feet southwesterly of Washington street, approximately 7 feet southwesterly.

Staniford street, Boston Proper, easterly side at various locations between Cambridge street and Merrimac street.

Washington street, Boston Proper, from a point approximately 4 feet northeasterly of School street, approximately 7 feet northeasterly and from a point approximately 18 feet northeasterly of School street, approximately 7 feet northeasterly.

RELOCATION AND REVISION OF GRADE

Cambria street, Boston Proper, Dalton street, approximately 200 feet westerly.

Scotia street, Boston Proper, Dalton street, approximately

200 feet westerly.

STREET NAME CHANGE

Ashley street, East Boston (formerly Fr. Toma street), Breed street to Boardman street.

SLOPE EASEMENT

Dalton street, Boston Proper, between Cambria street and Belvidere street.

DISCONTINUANCE OF SLOPE EASEMENTS

Dalton street, Boston Proper, between Cambria street and Belvidere street.

Poplar street, West Roxbury, on the easterly side from Maynard street approximately 335 feet northerly.

ABANDONMENT OF ORDER

Supple road, Dorchester, widening and construction at the northeasterly and northwesterly corners of Normandy street.

Trilling Way, South Boston, laying out and construction from Northern avenue approximately 300 feet southwesterly.

LAND DAMAGES

On new street construction 88 claims were filed for damage to property resulting from land takings or changes in grades. On these claims, this Commission awarded damages in the amount of \$29,677.20.

SEWER PROGRAM

During the year 1964 the construction of 3.32 miles of sanitary sewer, 3.81 miles of storm sewer, 89 catch basins, and 1 drop inlet were ordered at a total estimated cost of \$548,811.60.

The following sewer easement was ordered discontinued:

PRIVATE LAND, West Roxbury, from Gardner Street to the former line of Morrison Street.

Sewerage works were ordered as follows:

SEWERAGE WORKS ORDERED

Street	Sanitary Sewer (Linear Feet)	Surface Drain (Linear Feet)	Catch Basins	Drop Inlets	Cost	Estimated Benefit
Boston Proper Oliver street				1	\$400 00	
Brighton Chestnut Hill avenue Hardwick terrace Western avenue	515 115 490	502 110			18,800 00 3,600 00 18,250 00	\$8,000 00 None 13,687 52
Dorchester Ashland street Evandale terrace. Itasca street Paula road Tennis road.		81 295 1,200 135 171	2 6		2,200 00 7,770 00 15,000 00 4,020 00 7,600 00	925 00 None None 2,865 00 None
Hyde Park Beechmont street. Collins street. Dedham street *Edson terrace *Prospect circle. *Ralston road *Sierra road *Vallaro road *Yulletide road and Hebron street.	180 307 973	215 170 97 180 307 980 127 222	2 3 6		8,570 00 4,100 00 13,000 00 3,180 00 4,400 00 7,900 00 29,200 00 4,590 00 6,065 00	None 1,700 00 None 1,492 52 2,325 00 3,750 00 None None
Roxbury Crestwood park. Humboldt avenue. St. Alphoneus street. Townsend street. Tremont street.	522 290	541 310 558 188	4 7 2		10,250 00 12,720 00 14,400 00 1,920 00 1,600 00	None None None None None
West Roxbury *Blueview Circle. *Busiew Food. Boylston street. *Catamete street. *Catamete street. *Catamete street. *Cedarcrest road. *Eldon street. Fernwood road. *Furbush road. George Wright Golf. Course.	1,539 190	345 644 1,221 207 550 395 73 120 245	2 4 2 3 2		8,820 00 17,196 00 48,625 00 4,700 00 17,320 00 8,600 00 2,600 00 4,000 00 6,615 00	5,220 05 9,579 92 None 2,287 50 8,512 64 4,803 75 1,462 50 None 3,468 78
La Grange street Maple street *New Haven street *Schubert street.	35	7,647 29 1,875 220 179	6		880 60 46,800 00 7,640 00 4,000 00	128,610 00 660 45 None 2,310 00 3,225 00

^{*}Easements Taken

ASSESSMENTS

During the year 1964, the Highway Division of the Public Works Department sent notice of completion of nine (9) streets at a total cost of \$254,358.91. On this work the Public Improvement Commission levied assessments in the amount of \$85.914.44.

During the same period the Sewer Division of the Public Works Department reported the completion of construction of sanitary sewerage in eight (8) streets at a cost of \$39,311.86, on which the Public Improvement Commission levied assessments in the amount of \$18.815.65.

With the abolishment of sewer entrance fees by the Supreme Court in 1951, the Public Improvement Commission was empowered to assess parcels of land within a seasonable time after connections were made to sewer from estates that had never paid an assessment for the original improvement. The following is a list of streets in which connections were made:

111 11111111111111111111111111111111111		
Street	DISTRICT	Assessment
Baker street	West Roxbury	\$60 00
Belle avenue	West Roxbury	840 00
Buckingham street	Hyde Park	660 00
Burroughs street	West Roxbury	62 45
Cambridge street	Brighton	194 27
Cambridge street	Brighton	169 30
Columbia road	South Boston	93 00
Concord street	Charlestown	50 00
Dana avenue	Hyde Park	150 00
Dorchester street	South Boston	100 00
Fresno street	West Roxbury	90 00
Gardner street	West Roxbury	184 00
Garfield avenue	West Roxbury	82 00
Glenellen road	West Roxbury	180 00
Hackensack terrace	West Roxbury	1,290 00
Lasell street	West Roxbury	53 75
Manning street	West Roxbury	52 50
Maple street	West Roxbury	194 40
Miami avenue	West Roxbury	45 86
Myer street	West Roxbury	75 00
Orlando street	Dorchester	160 00
Pelton street	West Roxbury	128 00
Ralston road	Hyde Park	192 00
Regina road, Alpha road	Dorchester	293 85
South street	West Roxbury	260 00

Street	DISTRICT	Assessment
Sparrow street	West Roxbury	\$67 23
Stimson street	West Roxbury	172 00
V.F.W. Parkway	West Roxbury	308 50
Vallaro road	West Roxbury	210 65
Warren avenue	Hyde Park	53 76
Washington street	Dorchester	84 86
Willow court	Dorchester	975 00
		\$9,080 11

During the year 1964, the Highway Division of the Public Works Department sent notice of completion of sidewalks in thirty-six (36) streets at a total cost of \$461,038.09. On this the Public Improvement Commission levied assessments of \$113,595.17.

STREET ASSESSMENTS

Street	District	Cost	Assessment
Bradlee street	Hyde Park	\$62,504 46	\$19,297 00
Buckingham street	Hyde Park	12,708 90	5,109 00
Coffey street	Dorchester	17,417 00	4,259 28
Itasca street	Dorchester	44,668 26	12,454 20
Kiernan road	West Roxbury	19,108 55	5,887 48
Messinger street	Dorchester	20,604 46	6,941 51
Northdale road	West Roxbury	43,015 91	17,735 98
Soldiers Field place	Brighton	30,948 32	13,056 99
Webb park	South Boston	3,383 05	1,173 00
Totals		\$254,358 91	\$85,914 44

SEWER ASSESSMENTS

Street	District	Cost	Assessment
Beaver street	Hyde Park	\$10,438 30	\$2,500 00
Beechmont street	Hyde Park	4,291 10	2,142 00
Glenmore street	Dorchester	2,962 40	2,400 00
Itasca street	Dorchester	7,365 00	5,021 60
Parker street	Hyde Park	2,092 79	1,693 79
Red Pine street	Hyde Park	6,854 71	2,919 15
Stoughton Street place	Dorchester	3,639 38	1,400 00
Westminster street	Hyde Park	1.568 18	739 11
Totals		\$39,211 86	\$18,815 65

SIDEWALK ASSESSMENTS

Street	District	Cost	Assessments
Albion street	Hyde Park	\$10,618 93	\$2,301 00
Arlington street	Brighton	1,504 26	1,269 20
Arthur street	Brighton	1,702 04	955 50
Ashland street	Dorchester	8,500 20	2,775 00
Bagnal street	Brighton	4,418 41	832 53
Beach street	Dorchester	11,878 40	4,543 00
Blanche street	Dorchester	2,486 20	1,206 00
Bonad road	West Roxbury	8,328 51	1,085 00
Call street	West Roxbury	2,583 28	1,260 48
Clifford street	Hyde Park	9,319 03	2,304 80
Clive street	West Roxbury	236 60	264 50
Colbert street	West Roxbury	6,896 12	2,095 75
East Seventh street	South Boston	746 10	250 00
Eliot street	West Roxbury	4,659 54	1,769 90
Fern street	Brighton	1,124 58	457 00
Franklin street	Brighton	17,255 81	7,732 80
Herrick street	Brighton	3,735 74	1,692 49
Hillock street	West Roxbury	7,164 45	3,341 96
Homer street	East Boston	8,045 85	2,640 19
Homewood road	West Roxbury	4,557 30	1,535 99
Huntington avenue	Hyde Park	36,642 54	16,099 00
Lamson street	East Boston	1,391 40	541 99
Lexington avenue	Hyde Park	18,574 50	9,265 35
Lincoln street	Dorchester	685 86	400 00
Mill street	Dorchester	16,489 85	5,210 00
Monastery road	Brighton	893 20	438 00
Murdock street	Brighton	16,719 77	10,278 33
Pond Circle	West Roxbury	10,380 13	5,171 37
Ravenna road	West Roxbury	9,975 44	3,229 00
Robeson street	West Roxbury	15,769 68	5,835 00
Rockmere street	Dorchester	4,267 71	1,365 00
Sagamore street	Dorchester	3,181 42	922 50
Strathmore road	Brighton	6,903 58	2,943 00
Union street	Brighton	5,006 73	2,794 34
Winslow street	Hyde Park	6,481 23	2,261 00
Wordsworth street	East Boston	1,919 95	6,528 20
Totals		\$461,038 09	\$113,595 17

Nature of Petition

LAND DAMAGES

During the period of this report 177 petitions for public utilities were approved for the placing and maintaining of poles for the support of wires.

Also, 86 petitions were approved for miscellaneous installations or uses of the public highways of the City of Boston, as follows:

Petitioner

STREET	Petitioner	Nature of Petition
Albion street, Hyde Park	Worcester Gas Light Company	Underground gas main
Am. Legion H'way, West Roxbury	Boston Gas Company	Underground gas main
Badger road, Hyde Park	Worcester Gas Light Company	Underground gas main
Bennington street, East Boston	Boston Gas Company	Underground gas main
Bennington street, East Boston	Boston Gas Company	Underground gas main
Bennington street, East Boston	Noddle Isle Liquors	Illuminated sign
Bennington street, East Boston	Ben Havre Liquors	Illuminated sign
Berkeley street, Boston Proper	First Church of Boston	Steps, etc.
Berkeley street, Boston Proper	Boston Edison Company	Conduit
Binney street, Roxbury	N. E. Deaconess Hospital	Tunnel
Blossom street, Boston Proper	Boston Edison Company	Conduit
Blossom street, Boston Proper	Boston Edison Company	Conduit
Blossom street, Boston Proper	Boston Gas Company	Underground gas main
Blue Hill avenue, Dorchester	Dorchester Savings Bank	Illuminated signs
Blue Hill avenue, etc., Dorchester	Boston Gas Company	Underground gas main
Boylston street, Boston Proper	Boston Edison Company	Conduit
Boylston street, West Roxbury	Boston Gas Company	Underground gas main
Boylston street, Boston Proper	Hotel Touraine	Illuminated sign
Bowdoin street, Dorchester	Boston Gas Company	Underground gas main
Bradlee street, Hyde Park	Worcester Gas Light Company	Underground gas main
Bray ton road, Brighton	Boston Gas Company	Underground gas main
Brighton avenue, Brighton	Northeast Realty Corporation	Marquee
Broadway, Boston Proper	Nile Restaurant	Illuminated sign
Cambria street, etc., Boston Proper	Cambria Scotia Company	Foundation piles
Cambria street, Boston Proper	Cambria Scotia Company	Gas separator manhole
Cambridge street, Boston Proper	Boston Edison Company	Conduit
Cambridge street, Boston Proper	Boston Edison Company	Conduit
Carver street, Boston Proper	Reid Hotel	Awning
Cataumet street, West Roxbury	Boston Gas Company	Underground gas main
Coleman street, Dorchester	Boston Gas Company	Underground gas main
Columbus avenue, Roxbury	Boston Gas Company	Underground gas main
Columbus avenue, Boston Proper	Galvin's Luncheon	Awning

STREET	Petitioner	Nature of Petition
Columbus avenue, Roxbury	Boston Gas Company	Underground gas main
Commonwealth avenue, Boston Proper	Boston University	Underground steam main
Commonwealth avenue, Brighton	Boston Gas Company	Underground gas main
Crestwood park, Roxbury	Boston Gas Company	Underground gas main
Dalton street, Boston Proper	Boston Gas Company	Underground gas main
Devonshire street, Boston Proper	Boston Edison Company	Conduit
Devonshire street, etc., Boston Proper	Boston Edison Company	Fuel oil lines
Dorchester street, South Boston	J & J Liquor Company	Illuminated sign
East First street, etc., Boston Proper	Boston Edison Company	Fuel oil lines
Fawndale road, West Roxbury	Boston Gas Company	Underground gas main
Freeman avenue, etc., West Roxbury	Boston Gas Company	Underground gas main
Gordon avenue, Hyde Park	Worcester Gas Light Company	Underground gas main
High street, Boston Proper	Boston Edison Company	Conduit
High street, Boston Proper	Boston Edison Company	Conduit
Humboldt avenue, Roxbury	Boston Gas Company	Underground gas main
Huntington avenue, Boston Proper	Boston Edison Company	Conduit
Hyde Park avenue, Hyde Park	Worcester Gas Light Company	Underground gas main
Iola street, Dorchester	Boston Gas Company	Underground gas main
Jacob street, Dorchester	Boston Gas Company	Underground gas main
Jeffries street, etc., East Boston	Boston Gas Company	Underground gas main
Kingsland road, West Roxbury	Boston Gas Company	Underground gas main
La Grange street, Boston Proper	Edward's Restaurant	Illuminated arrow
Lehigh street, Boston Proper	Boston Gas Company	Wooden standard pole
Lourdes avenue, West Roxbury	Boston Gas Company	Underground gas main
Lucerne street, Dorchester	Boston Gas Company	Underground gas main
Manning street, West Roxbury	Boston Gas Company	Underground gas main
Maple Terrace Ext., West Roxbury	Alex. Hamilton Homes	Open for public travel
Milk street, Boston Proper	Boston Edison Company	Conduit
Newbury street, Boston Proper	Boston Edison Company	Conduit
Newbury street, Boston Proper	Boston Edison Company	Conduit
Newbury street, Boston Proper	Boston Edison Company	Conduit
Newmarket square, Roxbury	Boston Gas Company	Underground gas main
Nikisch avenue, etc., West Roxbury	Boston Gas Company	Underground gas main
Parkman street, Boston Proper	Mass. Gen. Hospital	Underground steam main
Pilgrim road, Roxbury	N. E. Deconess Hospital	Tunnel
Prospect street, Hyde Park	Worcester Gas Light Company	Underground gas main
Public Alley, Boston Proper	Boston Edison Company	Conduit
Reservation road, Hyde Park	Worcester Gas Light Company	Underground gas main
Ritchie street, Roxbury	Boston Gas Company	Underground gas main
Robken road West Roxbury	Boston Gas Company	Underground gas main

Petitioner Nature of Petition Street C & O Insurance Company Illuminated sign Roxbury street, Roxbury Underground gas main Russett road, West Roxbury Boston Gas Company Safford street, Hyde Park Worcester Gas Light Company Underground gas main Boston Gas Company Underground gas main Seymour street, West Roxbury Shawmut avenue, Boston Proper S. E. Glass Company Plain sign Conduit Somerset street, Boston Proper Boston Edison Company Stuart street, Boston Proper Four Corners Lounge, Inc. Canopy Illuminated sign Summer street, Boston Proper Berenson Liquor Mart Townsend street, Roxbury Boston Gas Company Underground gas main 3 illuminated signs Tremont street, Boston Proper Waldorf Lunch Waldorf Lunch Plain sign Tremont street, Boston Proper Al's Factory Outlet Awning Warren street, Roxbury Woodland road, West Roxbury Boston Gas Company Underground gas main

PRIVATE WAYS

During the year 1964, permission was given to prepare for public travel the following private ways:

Blueview Circle, West Roxbury, from Blueview road ap-

proximately 330 feet southerly.

Blueview road, West Roxbury, from Woodley avenue to Boundary road.

Brandywyne Drive, East Boston, from Saratoga street to

Saratoga street.

Brandywyne terrace, East Boston, from Brandywyne

Drive approximately 290 feet westerly.

Cataumet street, West Roxbury, from a point approximately 270 feet northeast of Pond street approximately 200 feet northeasterly.

Coleman street, Hyde Park, from a point approximately 341 feet northeast of Cleveland street approximately 140 feet

northeasterly.

Cedarcrest Circle, West Roxbury, from Cedarcrest road

approximately 540 feet easterly.

Cedarcrest road, West Roxbury, from Woodley avenue approximately 340 feet southeasterly.

Crest street, West Roxbury, from a point approximately 340 feet southwest of Houston street approximately 140 feet southwesterly.

Delore Circle, West Roxbury, from Seymour street approximately 150 feet northeasterly.

Edson terrace, Hyde Park, from Edson street approximately 90 feet northwesterly.

Genevieve Way, Dorchester, from Adams street approximately 485 feet northerly and easterly.

Hardwick terrace, Brighton, from Hardwick street approximately 109 feet northeasterly.

Hutchinson street, Dorchester, from Brookvale street approximately 139 feet southeasterly.

Kovey road, Hyde Park, from Raldne road approximately

1,087 feet northeasterly and southeasterly,

Manning street, West Roxbury, from a point approximately 186 feet northeast of Gilman street approximately 229 feet northeasterly and easterly.

Mansen road, Hyde Park, from Kovev road approximately

796 feet northerly, westerly and northwesterly.

New Haven street, West Roxbury, from a point approximately 166 feet northeast of Stimson street approximately 110 feet northeasterly.

Palermo street, East Boston, from Leverett avenue to Pa-

lermo avenue and from Lawn avenue to Swan avenue.

Pleasant Valley Circle, West Roxbury, from West Roxbury Parkway approximately 450 feet easterly.

Prospect Circle, Hyde Park, from Prospect street approxi-

mately 190 feet southeasterly.

Ralston road, Hyde Park, from Greenfield road to Ra-

leigh road.

Schubert street, West Roxbury, from Washington street

approximately 200 feet northwesterly.

Sierra road, Hyde Park, from a point approximately 200 feet north of Neponset Valley Parkway approximately 918 feet northerly and northwesterly to Wolcott street.

Starbird avenue, West Roxbury, from Byrd avenue approxi-

mately 300 feet northeasterly.

Summit Circle, Hyde Park, from Summit street approxi-

mately 190 feet southeasterly.

Thompson street, Hyde Park, from a point approximately 913 feet southwest of Franklin street approximately 62 feet southwesterly.

Thorn street, Hyde Park, from River street approximately

260 feet northeasterly.

During the same period, permission was given to open for public travel the following private ways:

Bradlee court, Hyde Park, from Bradlee street approximately

235 feet easterly.

Bradlee Lane, Hyde Park, from Bradlee street approximately 235 feet easterly.

Bradlee park, Hyde Park, from Bradlee street approximately

235 feet easterly.

Crosstown avenue, West Roxbury, from Vogel street approximately 240 feet easterly.

Cypress terrace, West Roxbury, from Cypress street approximately 290 feet southerly.

Leverett avenue, East Boston, from Bennington street to

approximately 280 feet southeasterly.

Maple terrace extension, West Roxbury, from a point approximately 215 feet northeast of Maple terrace approximately 95 feet northeasterly.

Milton terrace, Hyde Park, from Milton avenue approximately 345 feet northeasterly.

Orlando street, Dorchester, from Monterey avenue approxi-

mately 370 feet southwesterly.

Partridge street, West Roxbury, from Maplewood street to Sparrow street.

Raldne road, Hyde Park, from Stonehill road to Turtle Pond

Parkway.

Rockwood terrace, West Roxbury, from Rockwood street

approximately 480 feet easterly and southerly.

Running Brook road, West Roxbury, from Westmoor road approximately 1,270 feet northerly and southeasterly to Woodley avenue.

Silvia court, Hyde Park, from Raldne road approximately

300 feet westerly.

Westmoor road, West Roxbury, from Running Brook road approximately 340 feet southeasterly.

SUMMARY

In addition to the normal volume of Boston street and sewer improvements, this Commission worked closely with the agencies concerned with the New Boston such as Boston Redevelopment Authority, Massachusetts Turnpike Authority, Massachusetts Department of Public Works, other City departments, Prudential Center, and other private developments.

For example, the first phase of the WASHINGTON PARK DEVELOPMENT resulted in the discontinuance of certain streets in that area, the layout of new public streets, and the widening of existing public streets, such as Humboldt Avenue, Charlame Street,

Bower Street, etc.

The new design for COPLEY SQUARE required this Commission's action for the discontinuance of that portion of Huntington Avenue and the widening and specific repairs in adjacent streets.

Although only minor changes were made in the GOVERNMENT CENTER AREA, much preliminary planning for the new street pattern in this area was

under discussion during the year.

At the PRUDENTIAL CENTER, minor improvements were made this year in the surrounding area to improve the traffic pattern in anticipation of the new Turnpike and in an attempt to coordinate with the proposed Christian Science Church new complex which, as yet, has not been made public.

Other private developments required this Commission's attention and action during the year, most important of which were for the proposed addition to the Gillette Company in South Boston and high-rise

apartment houses in downtown Boston.

Interestingly enough, in the midst of Boston's renaissance, there were two major restoration projects aimed at retaining Boston's old charm and flavor; namely, the "Old Corner Book Store" at Washington and School Streets, and the original Bulfinch-designed St. Stephen's Church on Hanover Street. Both projects required the discontinuance of portions of the public highway.

The new ZONING CODE which went into effect on December 30, 1964, resulted in a "rush" of sewer and water petitions from developers who were anxious to obtain approval before the deadline date. This, of course, increased the clerical and engineering workload.

Another major change in the law—amendments to Chapter 79 of the General Laws—became effective on November 1, 1964. These amendments resulted in several changes in our procedure on Eminent Domain, most important of which is the necessity of determining amount of damages prior to the recording of a taking in the Suffolk Registry of Deeds.

The year 1964 brought about many public improvements in the City of Boston including those projects already under way, those started during the year, or contemplated for the coming year. This Commission is already geared to meet future improvements contemplated for next year in the Government Center street complex, Christian Science new complex, completion of the Turnpike ramps, Washington Park and West End Developments, Copley Square redesign, and the Waterfront project.

JAMES W. HALEY, Chairman, THOMAS F. CARTY, JAMES J. SULLIVAN, JR.

Michael J. Corrao, Executive Secretary

APPENDIX A

GENERAL ORDERS

APPENDIX B

CENTRAL OFFICE

DEPARTMENTAL PERSONNEL

- Table 1 Grade and Number of Employees
- Table 2 Number Actually Employed
- Table 3 Appointments, Transfers, Deaths, etc.

LOAN ORDERS - OUTSTANDING DEBT

- Table 1 Public Ways
- Table 2 Sewerage Works
- Table 3 Bridges

AUTOMOTIVE EQUIPMENT

- Table 1 List as of December 31, 1964
- Table 2 Added or Ordered in 1964

PERMITS

Table 1 — Permits Issued and Cash Receipts

The records of the department show that there are now 1,450 positions in the several divisions, and of that number 1,364 permanent employees were on the January 2, 1965, payrolls.

APPENDIX B

TABLE I
GRADE AND NUMBER OF EMPLOYEES

Title	Central Office	Maintenance Branch, Central Office	Highway	Sanitary	Sewer	Engineering	Water	Total
Administrative assistant	2	_	_	_	_		_	2
Assistant civil engineer		_	10	-	5	14	1	30
Assistant drawtender		_	35	_	_	_	_	35
Assistant sewer pumping station operator	_	_	_	-	4	_	_	4
Assistant superintendent	_		1	_	_	_	1	2
Assistant supervisor	_	_	1	_	_		_	1
Associate civil engineer	_	_	2	_	2	2	1	7
Cashier and weigh clerk	_	_	_	1	_	_	_	1
Chief communication equipment operator	_	1	_			_	_	1
Chief electrician	_	_	1	_	_	_	_	1
Chief inspector	_	_	1		_	_	_	1
Chief sewer pumping station operator	_	_	-	_	1	_	_	1
Chief water meter reader	-	_	_	_		_	1	1
Clerk	_	_	_	_	-	_	2	2
Clerk and stenographer	_	_	_	1	_	_	_	1
Clerk and typist	-		_	1	_	1	3	5
Commissioner of Public Works	1	_	_	_	_	_		1
Communication equipment operator	_	3	_	-	_		_	3
Constable	1	-	_		_	_	_	1
Crane operator	_	-	_	11	_	_	-	11
Director of Transportation	_	1	_	_	_	_	_	1
District foreman	_	_	_	-	-	_	1	1
Division engineer	_	-	1	1	1	1	1	5
Drawtender	_	-	4	_	-	_	_	4
Electrician	_	_	1	1	_ '	-	_	2
Electrician-operator	-	_	_	_	2	_	_	2
Exec. secretary (PIC)	1	_	_	_	_	_	_	1
First assistant drawtender		_	17	_	_	_	_	17

TABLE 1
GRADE AND NUMBER OF EMPLOYEES — Continued

TITLE	Central Office	Maintenance Branch, Central Office	Highway	Sanitary	Sewer	Engineering	Water	Total
Garage attendant	_	4	_		_	_		4
Garage foreman	_	3	_	_	_	_	1	4
General foreman	_	2	_	_	_	_	_	2
Head account clerk	_	_	_	_		_	1	1
Head administrative clerk	1	1	1	1	_	1	_	5
Head clerk	2	_	1	_	1	_	3	7
Head clerk and secretary	1	_	_		_	_	_	1
Head permit investigator	1		_	_	_	_		1
Head photostat operator	_	_	_	_	_	1	_	1
Heavy motor equipment operator		2	64	12	1		16	95
Heavy motor equipment repairman	_	8	_	_	_	_	_	8
Inspector	_	_	70	34	11		17	132
Investigator	4	_	_	_	_		_	4
Junior civil engineer	_	_	3	_	_	6	1	10
Junior engineering aid	_	_	6	_	_	1	1	8
Laborer	_	_	300	26	15	_	32	373
Laborer (incinerator)	_	-	_	22	_	_	_	22
Maintenance mechanic (blacksmith)	_	4	_	_	_	_	_	4
Maintenance mechanic (bricklayer)	_	_	_	_	_		1	1
Maintenance mechanic (carpenter)	_	4	6	_	_	_		10
Maintenance mechanic (machinist)	_	_	3	_	_	_	11	14
Maintenance mechanic (mason)	_	_	_	_	1	_	_	1
Maintenance mechanic (millwright)	_	_	_	2	2	_	_	4
Maintenance mechanic (painter)	_	2	1	_	_	_	_	3
Maintenance mechanic (plumber)	_	_	_	_	_	_ 1	15	15
Maintenance mechanic (sheet metal worker)	-	1	_	_	_		_	1
Maintenance mechanic (welder)	_	4	_	_	_	_		4
Maintenance mechanic foreman (carpenter)		1	_	-	_	_	_	1
Maintenance mechanic foreman (machinist)	_	_	-	_	_	- 1	1	1
Maintenance mechanic foreman (millwright).	_		_	1	_	_	_	1
Maintenance mechanic foreman (welder)	_	1	_		-	_		1
Maintenance mechanic helper	_	7	_		_	_	8	15
Maintenance foreman	_	_	5	_	4	_	_	9
Maintenance man	_	13	_	2	-	_	_	15

TABLE 1
GRADE AND NUMBER OF EMPLOYEES — Continued

		I -			i	1		
Title	Central Office	Maintenance Branch, Central Office	Highway	Sanitary	Sewer	Engineering	Water	Total
Motor equipment operator	_	1	61	8	10	_	5	85
Motor equipment repair foreman	_	4	-	_	-	_	-	4
Motor equipment repairman	_	13	_	_	_	_	_	13
Pavers		-	14	_	_	_	-	14
Personnel assistant	1	_	_	_	-	_	-	1
Photographer	_	_	_	_	_	1	-	1
Principal account clerk	5	1	1	1	_	_	4	12
Principal civil engineer	_		_	2	1	3	_	6
Principal clerk	_	_	-	1	1	_	6	8
Principal clerk and stenographer	_	_	1	_	_	_	-	1
Principal clerk and typist	4	1	1	_	_	1	3	10
Principal electrical engineer	_	_	1	_	_	_	_	1
Principal photostat operator	_	_	_	_	_	1	-	1
Principal storekeeper	_	1	_	_		_	1	2
Sanitation foreman		_	_	1	_		_	1
Senior account clerk	1	_	_	_	_	_	2	3
Senior accounting machine operator	_	_	_	_	_	_	1	1
Senior administrative assistant	1	_	_	_	_	_	_	1
Senior cashier	1	_	_	_	_	_	_	1
Senior civil engineer	_	_	2	_	2	1	_	5
Senior clerk	_	_	_	-	-	_	5	5
Senior clerk and stenographer	1	-	2	1	_	_	2	6
Senior clerk and typist	4	1	2	_	1	_	2	10
Senior engineering aid	_	_	5	_	2	4	_	11
Senior personnel officer	1	-	_	_	_	_	-	1
Senior storekeeper	_	1		_	_	_	_	1
Sewer cleaner	_	_	_	_	6	_	_	6
Sewer gateman	_	_	_	_	8	_	_	8
Sewer pumping station operator	_	_	-	_	4	_	_	4
Sewer service repairman	_		-	-	3	_	_	3
Sign painter and letterer	_	1	_	_		_		1
Special heavy motor equipment operator	_	1	5	4	3	_	2	15
Special water meter reader	_	_	-	-	-	_	4	4
Steam fireman	-	_	_	1	5	_	-	6

TABLE I
GRADE AND NUMBER OF EMPLOYEES — Concluded

Title	Central Office	Maintenance Branch, Central Office	Highway	Sanitary	Sewer	Engineering	Water	Total
Steam fireman (incinerator)	_	_	_	5	_	_	_	5
Stoker	_	_	_	22	_	_	-	22
Storekeeper	_	-	1		_	-	1	2
Superintendent	- 1	1	2	2	1	_	1	7
Supervisor	1	2	13	6	1	_	6	29
Water meter reader	_	_		-	_	_	20	20
Water meter repsirman	_	_	_		_	-	11	11
Water service maintenance man	_	-	-	-	-	_	21	21
Water service repairman	_	-	_		_	_	25	25
Working foreman	_	1	2	10	7	_	18	38
Yard clerk	-	_	_	3	1	_	5	9
Yardmaster	_	_	_ :	-	_	_	1	1
Total	34	91	647	183	106	38	265	1,364

TABLE 2 NUMBER OF EMPLOYEES ACTUALLY EMPLOYED JANUARY 1, 1964 AND JANUARY 1, 1965

	Central Office	Highway	Sanitary	Sewer	Engineering	Water	Total
January 1, 1964	134	646	184	107	36	273	1,380
January 1, 1965	125	647	183	106	38	265	1,364

Total Eligible Force

January 1, 1964	125	685	200	122	60	288	1,480
January 1, 1965	120	680	190	120	60	280	1,450

CITY DOCUMENT No. 18

OUTSTANDING BONDED DEBT TABLE I PUBLIC WAYS—CONSTRUCTION OF

Outside Debt Limit	Issued	Series Due	Amount		
1½S	1954	10/1/64	\$200,000		
2½S	1955	4/1/65	400,000		
3S	1956	11/1/62-66	300,000		
3S	1957	5/1/67	400,000		
5S	1957	5/1/67	200,000		
5S	1958	10/1/68	500,000		
4S	1959	11/1/69	900,000		
3½S	1960	11/1/70	1,400,000		
3S	1961	11/1/71	1,250,000		
23S	1962	4/1/72	1,530,000		
3½S	1963	4/1/73	800,000		
3½S	1963	4/1/73	1,700,000		
Total			\$9,580,000		

TABLE 2 SEWERAGE WORKS

Inside Debt Limit	Issued	Series Due	Amount	
3½S	1934	11/1/64	\$25,000	
3S	1937	9/1/67	15,000	
2 ³ / ₄ S	1937	12/1/67	20,000	
2 ³ / ₄ S	1938	6/1/68	80,000	
13S	1939	8/1/69	24,000	
13S	1940	7/15/70	16,000	
2S	1941	12/15/71	48,000	
2S	1942	12/1/72	90,000	
1½S	1943	12/1/73	100,000	
1½S	1944	8/1/74	68,000	
1½S	1945	12/1/75	156,000	
1½S	1946	7/1/76	260,000	
13S	1947	5/1/77	440,000	
2S	1948	12/1/78	75,000	
2½S	1949	12/1/79	430,000	
1½S	1949	11/1/79	240,000	
13S	1950	6/1/80	290,000	
13S	1951	10/1/71	200,000	
Total			\$2,577,000	

TABLE 2
SEWERAGE WORKS, CONTINUED

Outside Debt Limit	Issued	Series Due	Amount	
$2\frac{1}{2}$ S	1952	10/1/72	\$225,000	
2½S	1953	10/1/73	500,000	
2S	1955	3/1/75	300,000	
$2\frac{1}{2}S\dots$	1955	10/1/75	300,000	
3½S	1957	5/1/77	350,000	
3½S	1957	10/1/77	350,000	
33S	1960	11/1/79	400,000	
3½S	1960	11/1/80	425,000	
3S	1961	11/1/81	350,000	
3S	1962	11/1/82	485,000	
3½S	1963	11/1/83	500,000	
Total			\$4,285,000	

APPOINTMENTS, TRANSFERS, RESIGNATIONS, RETIREMENTS, DEATHS, ETC., OF EMPLOYEES

Appointed	Reinstated	Transferred from Other Departments	Transferred from Other Services	January 1, 1965	Services 1964-1965	January 1, 1964	Resigned	Discharged	Transferred to Other Services	Transferred to Other Departments	Retired	Died
3	_	1	3	125	Central Office	134	_	4	3	1	8	_
64	-	2	1	647	Highway	646	8	7	2	7	31	11
15	2	_	2	183	Sanitary	184	3	4	1	1	8	3
10	1	_	1	106	Sewer	107	-	1	2	1	5	4
3	1		1	38	Engineering	36	1	-	1	-	-	1
12	2	4	1	265	Water	273	4	3	1	1	12	6
107	6	7	9	1,364	Totals	1,380	16	19	10	11	64	25

OUTSTANDING DEBT

The bonded debt for public ways construction amounted to \$9,580,000 and for sewerage works inside the debt limit \$2,577,000 and outside the debt limit \$4,285,000 for a total of \$6,862,000. Bridge debt, reconstruction and repair \$140,000; construction inside debt limit \$180,000 and outside debt limit \$3,720,000 for a total of \$4,040,000.

TABLE 3
BRIDGES—RECONSTRUCTION AND REPAIR

Inside Debt Limit	Issued	Series Due	Amount			
		6/1/70	\$140,000			
Bridge	s, Consti	ruction of				
Inside Debt Limit Issued Series Due Am						
1½S		12/1/65	\$18,000			
Outside Debt Limit	Issued	Series Due	Amount			
2S	1952	4/1/72	\$225,000			
2½S	1952	10/1/72	135,000			
2¾S	1953	4/1/73	305,000			
2½S	1954	4/1/74	760,000			
2S	1955	4/1/75	300,000			
2½S	1955	10/1/75	300,000			
3S	1956	11/1/76	520,000			
3½S	1957	5/1/77	140,000			
3½S	1957	10/1/77	350,000			
3 ³ / ₄ S	1959	11/1/79	400,000			
3S	1962	11/1/82	285,000			
Total			\$3,720,000			

TABLE 1

AUTOMOTIVE EQUIPMENT

The Maintenance Branch is concerned with the repairs and maintenance of the automotive equipment of the Public Works Department, which consisted of the following on December 31, 1964:

1 assenger Car	0	•	•	•	•	•	•	•	•	•	04
Snow-Fighting	Tr	ucks	3								
Walter Snov	v Fi	ghte	ers								10
F.W.D.Truc	ks							Ċ			3
Oshkosh											3
Trucks — For	d M	lode	1								
E-160 .											6
F-250 and 3	350										26
F-500 .											7
											17
F-750 .											28
F-800 .											1
F-850 .											65
C-850 .											4
C-950 .											ę
F-000 . F-750 . F-800 . F-850 . C-850 . C-950 . C-1100											18
Miscellaneous											
											12
Chevrolet Internations Dodge Willy's Diamond T Ford Pick-u	a1	•	•	•	•	•	•	•	•	•	4
Dodge	NI.	•	•	•	•	•	•	•	•	•	4
Willy's	•	•	•	•	•	•	•	•	•	•	j
Diamond T	•	•	•	•	•	•	•	•	•	•	j
Ford Pick-11	ne	•	•	•	•	•	•	•	•	•	10
TOTAL TREE-u	.ps	•	•	•	•	•	•	•	•	•	10
Truckster											
Cushman											1
Cucana	•	•	•	•	•	·	•	•	·	·	
Bulldozer											
Caterpillar											3
Tractor-For	d C	-110	00								1
Mechanical St											
Wayne Elgin .											20
Elgin .											10
Tennont											9

	Publ	LIC V	Vorks	E)EPA	RTM	ENT			63
Compressors Worthington Truck Mou								·		14 3
Front End Lo										
Trojan										11
										15
Michigan			•	•	•	•	٠	٠	٠	4
Roller Galion										2
Mobile Cranes	3									1
Unit Crane Internations F-850 .	1 (5 4		•		•	•	•	•	•	1
F-850 .	31 (O (.011)	•		•	•		•	•	4
r-000 .		•	•	•	•	•	•	•	•	1
Flusher Tanks	3									
Robinson										10
Entyre										3
v										
Sand Spreader										
Jet .										10
Baughman										6
Fox .				٠		٠		•		32
Wrecker										
Ford C-110	ın									1
Ford F-600	with.	derric	ıl-		•			•	٠	1
Ford-850 w				•			•	•	•	1
Ford Aerial									Ċ	1
Ford One-T										1
Internation										10
Internation										1
Chevrolet 1	1/2-Ton	C.B.	C.							1
Thermal Sn	ow M	elter								1
										484
Plus twenty etc.	v-thre	e (23)	Traile	ers,	Tran	spoi	rts, S	ewer	Roc	lders,

TABLE 2

New Equipment Purchased from 1964 Appropriations

10 International Dump Tru	ıcks			\$49,500	00
10 Dump Bodies				11,830	36
1 F-350				5,682	
14 Falcon Station Wagons				24,682	
1 C-1100 Dump Truck				7,601	
4 Dual Control Sweepers				50,691	48

2 Trojan Front End Loaders .				\$25,138	96
4 2,000 gal. Flusher Tanks				17,197	04
1 D-7 Tractor				35,280	00
6 Chrysler Industrial Motors	for	Wayı	ne		
Sweepers				1,800	90
1 Roto Power Set (10 ton)				171	00
1 6–12 Volt Battery Charger .				129	50
17 Fire Extinguishers				861	32
1 Wisconsin Motor				428	35
6 Heavy Duty Slow Marquette C	Charge	ers		446	88
3 Push Frame Assemblies				705	60
2 Frink Plow Models 430				1,050	60
				\$233,196	99
NEW EQUIPMENT FROM S	Snow	Appro	PRIA	TIONS	
10-Two-way Plows				\$11,103	40

10-Two-way Plows		\$11,103 40
10 Hopper Type Sand Spreaders		26,597 60
1 Snow Melter		38,078 44
4 Auger Type Sand Spreaders		13,267 24
10-One Way Plows		9,500 00

\$98,546 68

CIVIL DEFENSE LOANS

The Central Office—Maintenance Branch, after a thorough investigation and inspection of various sites in New England during snow conditions, recommended the purchase of the Thermal Model 75 Mobile Snow Melter, rated seventy-five (75) tons per hour melting capacity.

This machine has performed very satisfactorily, and has been a decided improvement in the snow removal field.

PERMIT BRANCH—1964

PERMITS AND LICENSES ISSUED

Signs						6,975
Permits-Openings an	nd O	ccupa	ation			9,925
Licenses						225
Sewer Inspection Fees	3.					556
Dump Tickets .						9,580
Total						27,261

PERMITS TABLE 1

CASH RECEIPTS

Permits — Signs Permits — Openi Licenses — Stora Sewer Inspection Dump Tickets Contract Books Engineering and Miscellaneous	ings a ge an Fees	d Sa	ecur le of	Mei Mei	n char	ndise	enir		ccou	i.	\$80,748 73,807 26,574 13,900 9,580 1,548 115,991 23,005	99 00 00 00 00 17
Total .											\$345,155	33
COMMITTED ACCOUNTS												
Rental — City I partment . Water Used Thro Towing — Storag Branch . Engineering Rep Damage to Prop	ough ge —	City Dam tions	Hydage — I	rant to Engin	Properi	Wate perty ng D	r Di —M	visio aint	on	ce	\$15,941 2,795 911 174 5,755 209	60 74 00 02
Damage to Prop	erty -	- 111	gnwa	ıy D	14191	ОЦ	•	•	•	٠		
Total .	٠	•	•	٠	•	•	•	•	•	•	\$25,786	87
		D.	EPO	SIT	AC	COU	NTS	3				
Water Deposits Street Opening A Street Opening A	ccour	nt (I nt Sp	rain	, Wa	ter,	etc.) Servi	ice C	orps)	:	\$127,841 114,844 354,361	10
Total . Grand Total											\$597,047 \$967,989	



APPENDIX C

ENGINEERING DIVISION

Table 1 — Reproductions

Table 2 — Survey and Plans

Table 3 — Contracts Advertised

TABLE 1

The Engineering Records Section is responsible for the operation of the Reproduction and Photographic Unit. This Unit furnished blue prints, ozalid prints, autopositives and photographs required by the Public Works Department and all other City Departments.

Reproduction Unit Statistics

Department	Photostats	Blueprints	Ozalids	Auto Positives	Card Stock
Administrative Services	866		957		
Assessing	1,048		2,641	24	
Auditing	84				
Building	1,538		2,273		
City Clerk	492		364		
City Council	1,374		724		
Civil Defense	188				
Collecting	166		184	36	
Election	392				
Finance Commission	28				
Fire	426		193		
Law	548		87		
Mayor's Office	1,672		1,245		
Park	166		347		
Penal	234		848		
Planning Board	1,194		462		
Public Buildings	86		174		
Public Works:					
Engineering Division	5,492	483	17,851	137	46
Central Office	1,682		6,178		
Highway Division	238		981		
Permit Section	322		385		
Sanitary Division	148		266		
Sewer Division	1,442		1,744		
Street Lighting	128		494		
Water Division	864		2,447		
Real Property	1,568		2,684		
Registry	2,436				
School Buildings	132		469		
School Committee	34				
Traffic and Parking	976		2,791		
Treasury	128				
Veterans' Services	196				
White Fund	492		296		
Totals	26,780	483	47,085	197	46

Photographic Unit Statistics

Unit	Negatives	4 x 5 Prints	8 x 10 Prints
Public Works:			
Central Office	390		390
Engineering Division	468		468
Highway Division	1,400		1,580
Sanitary Division	740	102	740
Sewer Division	603		603
Water Division	138	80	138
Miscellaneous	462	286	176
Total	4,201	368	4,095

TABLE 2

SURVEY SECTION WORK

Following is a report of the major works accomplished by the Survey Section.

Forty-seven (47) surveys and plans were made for laying-out of 4.4 miles of public highways as follows:

District								Length in Feet
Boston Proper								
Wesley place								100
Brighton								
Colon street								681
Everett street								150
Gerrish street								440
McDonald avenue .								350
Rushmore street .							•	375
Dorchester								
Delhi street								1,100
Desmond street				:		:	•	250
35 1					•		Ĭ.	270
Nowkirk street			:					260
Prairie street					•	•		750
Stone terrace					•		i	220
Violet street					•			927
*** 1.1		:						100
washington street .		•	•	•	•	•	•	100
Hyde Park								
Carlson Circle								372
Chesterfield street .								800
Cromwell street .								300
Edgewater Drive .								500
Fleet street								240
Lawton terrace								220
Norris road								500
Pleasant street								250
Providence street .								175
Willow avenue								376
Roxbury								
Copenger street .								200
South Boston								
Richards street								240
Trilling Way		•	•	•	•	:	•	375
Mt. Washington aver	1116	•	•	•		•		330
with washington aver	luc							000

1	UBLIC	W 01	CAR	DE	PAR.	IME	A.T.		11
District									Length
District									in Feet
WEST ROXBURY									010 1 000
Atherton str	oot								500
Belle avenue		•	•	•	•	•	•	•	3,444
Brown terra		•	•	•	•	•	•	•	350
David road		•	•	•	•	•	•	•	445
Earnshaw st	reet	•	•	•	•	•	•	•	186
Ellswood str		:	•						726
Ethel street		•	•	•	•		•	•	500
Fawndale ro		Ċ							1,300
Fessenden st			i			Ċ			200
Glencliff roa		Ċ	Ĭ.			· ·	Ċ		600
Lillie Way		Ċ	Ċ						350
Lillie Way Macullar ros Manning str	ad .	i			Ĭ.				400
Manning str	eet .	Ċ					· ·	Ĭ.	210
Manning str Maplewood	street	· ·		Ċ				·	1,231
Maria Lane		Ċ		Ť					400
Partridge st		•	•	· ·			•	•	610
Salman stre								•	521
St. Theresa									1,000
Searle road	L, CALGO								350
	·	•			•				300
hundred and sixt were made as fol	llows: (4	41.0	mile	s)	econ	struc	61011	01 11	
hundred and sixt were made as fol District	llows: (4	41.0 i	mile	s)	econ	struc	01011	01 11	Length
District		41.0 i	mile	s)	econ	struc	01011	01 11	
District Boston Proper				s)	econ	suuc	61011	01 11	Length in Feet
District Boston Proper				s)	econ	suruc			Length in Feet 480
District Boston Proper									Length in Feet 480 259
District Boston Proper					econ	suruc			Length in Feet 480 259 3,200
District Boston Proper									Length in Feet 480 259
District Boston Proper									Length in Feet 480 259 3,200
District Boston Proper Branch stree Wesley Plac West Cedar West Newto									Length in Feet 480 259 3,200
District Boston Proper Branch stree Wesley Plac West Cedar West Newto	et . e . street on street								Length in Feet 480 259 3,200 3,240
District Boston Proper Branch stree Wesley Plac West Cedar West Newto Brighton Arlington st	et . e . street on street								Length in Feet 480 259 3,200 3,240
District Boston Proper Branch stre Wesley Plac West Cedar West Newto Brighton Arlington st Englewood a	et . street on street reet								Length in Feet 480 259 3,200 3,240 2,246 1,630
District Boston Proper Branch stree Wesley Plac West Cedar West Newto Brighton Arlington st Englewood a Eulita terrae	et . e . street on street reet avenue								Length in Feet 480 259 3,200 3,240 2,246 1,630 276
District Boston Proper Branch stree Wesley Plac West Cedar West Newto Brighton Arlington st Englewood a Eulita terrac Everett stree	et . street on street avenue ce . et .								Length in Feet 480 259 3,200 3,240 2,246 1,630 276 4,604
District Boston Proper Branch stree Wesley Plac West Cedar West Newto Brighton Arlington st Englewood a Eulita terrae Everett stre Franklin str	et . street on street avenue ce . eet .								Length in Feet 480 259 3,200 3,240 2,246 1,630 276 4,604 2,296
District Boston Proper Branch strey Wesley Place West Cedar West Newto Brighton Arlington st Englewood a Eulita terra Everett strey Franklin str Hobson stre	et . street on street reet uvenue ce . eet . eet .								Length in Feet 480 259 3,200 3,240 2,246 1,630 276 4,604 2,296 1,034
District Boston Proper Branch stree Wesley Plac West Cedar West Newto Brighton Arlington st Englewood a Eulita terrae Everett stree Franklin str Hobson stree Kinross aver	et ee street wreet venue ee eet eet enue								Length in Feet 480 259 3,200 3,240 2,246 1,630 276 4,604 2,296 1,034 613
District Boston Proper Branch stree Wesley Plac West Cedar West Newto Brighton Arlington st Englewood a Eulita terrac Everett stree Franklin str Hobson stree Kinross avet Mapleton st	et street on street avenue ce . eet . eet . nue . reet								Length in Feet 480 259 3,200 3,240 2,246 1,630 276 4,604 2,296 1,034 613 1,149
District Boston Proper Branch stree Wesley Plac West Cedar West Newto Brighton Arlington st Englewood a Eulita terra Everett stree Franklin str Hobson stree Kinross aver Mapleton st Murdock str	et street reet avenue ce . eet . eet . nue . reet reet .								Length in Feet 480 259 3,200 3,240 2,246 1,630 276 4,604 2,296 1,034 613 1,149 2,041
District Boston Proper Branch strey Wesley Place West Cedar West Newto Brighton Arlington st Englewood a Eulita terra Everett strey Franklin str Hobson strey Kinross avei Mapleton st Murdock str Nonantum s	reet avenue ce . eet . eet . eue . nue . rreet . street . street .								Length in Feet 480 259 3,200 3,240 2,246 1,630 276 4,604 2,296 1,034 613 1,149 2,041 2,500
District Boston Proper Branch strey Wesley Place West Cedar West Newto Brighton Arlington st Englewood a Eulita terrace Everett stree Franklin str Hobson stree Kinross aver Mapleton st Murdock sta Nonantum s Priscilla roac	reet venue ce . eet . eet . eet . eet . eet . eet . reet . reet . street								Length in Feet 480 259 3,200 3,240 2,246 1,630 276 4,604 2,296 1,034 613 1,149 2,041 2,500 492
District Boston Proper Branch stree Wesley Plac West Cedar West Newto Brighton Arlington st Englewood a Eulita terrae Everett stree Franklin str Hobson stree Kinross avee Mapleton st Murdock str Nonantum s Priscilla roae Raymond st	reet venue ce . eet . eet . eet . eut . reet nue . reet reet . reet . reet . reet .								Length in Feet 480 259 3,200 3,240 2,246 1,630 276 4,604 2,296 1,034 613 1,149 2,041 2,500 492 1,200
District Boston Proper Branch stree Wesley Plac West Cedar West Newto Brighton Arlington st Englewood a Eulita terrac Everett stree Franklin str Hobson stree Kinross avei Mapleton st Murdock str Nonantum s Priscilla roac Raymond st Riverview re	et street on street avenue ce eet nue reet reet street d rreet oad								Length in Feet 480 259 3,200 3,240 2,246 1,630 276 4,604 2,296 1,034 613 1,149 2,041 2,500 492 1,200 1,170
District Boston Proper Branch stree Wesley Plac West Cedar West Newto Brighton Arlington st Englewood a Eulita terrae Everett stree Franklin str Hobson stree Kinross avee Mapleton st Murdock str Nonantum s Priscilla roae Raymond st	et street on street avenue ce eet nue reet reet street d rreet oad								Length in Feet 480 259 3,200 3,240 2,246 1,630 276 4,604 2,296 1,034 613 1,149 2,041 2,500 492 1,200

District					Length
					in Feet
Charlestown					
Allston street					648
Beachman street					645
Cedar street					416
Green street					1,247
Hancock street					217
Lawnwood place					233
Ludlow place					229
School street .					1,053
					962
Trenton street					430
DORCHESTER					
Alabama street					1,866
Ashland street					1,005
Aspinwall road					1,830
Beach street					1,600
Bernard street					8,245
Bellevue street					1,500
Blanche street					740
Bowman street					550
Castlegate road					460
Charles street					530
Chelmsford stree	t .				850
Clayton street					1,550
Columbine street					242
Corona street					1,000
DeWolfe street					380
Ellet street					420
Ellington street					1,330
Everdean street					1,380
Everett street					640
Evergreen street					847
Flint street					450
Florida street					1,265
Glenway street					1,161
Granite avenue					1,700
Green Hill street					435
Hallowell street					980
Holiday street					600
King street					2,850
Lawrence avenue					1,270
Lucerne street					795
Marden avenue					278
Melbourne street	t .				867
Mill street .					1,680
Monson street					520
Montague street					621
Mount Bowdoin					900

District								Length in Feet
Nahant street .								1,037
Narragansett street								253
Normandy street								1,790
Norwell street .								953
Oakley street .								830
Ocean street .								1,315
Parkman street .								1,200
Pasadena road .								800
Remington street								197
Roslin road .								987
Seaver street .								1,230
Southwick street								340
Spencer street .								2,200
Standard street .								1,200
Stanwood street								1,800
Supple road .	Ĭ.	·						1,000
Tiverton street .		Ċ						520
Tolman street .					·			880
Tuttle street .	i.	Ĭ.	•	· ·	Ċ	Ĭ.	· ·	1,163
Verdun street .	•	•		•			Ċ	500
Westcott street .	•	•		•		· ·		750
Westview street	•	•	•	•	•	•	·	500
Wheatland avenue				•	•	•	•	1,536
East Boston Breed street								1,184
Brooks street .	Ċ							2,765
Cottage street .			·					271
Curtis street .	Ċ	Ċ		Ċ				404
Everett street .	Ĭ.	·		·			Ĭ.	2,529
Ford street .		· .		•	•	· ·	· ·	332
Frankfort street	Ċ							
							· ·	
Horace street	Ċ	•		•	•			300
Horace street .		•	•	•			•	300 600
Jeffries street .	•	•		•	•	•		$ \begin{array}{r} 300 \\ 600 \\ 450 \end{array} $
Jeffries street . Lillian street .		•	•	•	•	•		300 600 450 232
Jeffries street . Lillian street . Marginal street .		•						300 600 450 232 2,797
Jeffries street . Lillian street . Marginal street . Marion street .				•				300 600 450 232 2,797 2,485
Jeffries street . Lillian street . Marginal street . Marion street . Maverick street								300 600 450 232 2,797 2,485 4,595
Jeffries street Lillian street Marginal street Marion street Maverick street New street								300 600 450 232 2,797 2,485 4,595 471
Jeffries street Lillian street Marginal street Marion street Maverick street New street Paris street		•						300 600 450 232 2,797 2,485 4,595 471 3,576
Jeffries street Lillian street Marginal street Marion street Maverick street New street Paris street Porter street								300 600 450 232 2,797 2,485 4,595 471 3,576 500
Jeffries street Lillian street Marginal street Marion street Maverick street New street Paris street Porter street Putnam street								300 600 450 232 2,797 2,485 4,595 471 3,576 500 2,195
Jeffries street Lillian street Marginal street Marion street Maverick street New street Paris street Porter street Putnam street Saratoga street								300 600 450 232 2,797 2,485 4,595 471 3,576 500 2,195 2,803
Jeffries street Lillian street Marginal street Marion street Maverick street New street Paris street Porter street Putnam street Saratoga street Shawsheen street								300 600 450 232 2,797 2,485 4,595 471 3,576 500 2,195 2,803 535
Jeffries street Lillian street Marginal street Marion street Maverick street New street Paris street Porter street Putnam street Saratoga street Shawsheen street Teragram street								300 600 450 232 2,797 2,485 4,595 471 3,576 500 2,195 2,803 535 468
Jeffries street Lillian street Marginal street Marion street Maverick street New street Paris street Porter street Putnam street Saratoga street Shawsheen street Teragram street Trident street								300 600 450 232 2,797 2,485 4,595 471 3,576 500 2,195 2,803 535 468 228
Jeffries street Lillian street Marginal street Marion street Maverick street New street Paris street Porter street Putnam street Saratoga street Shawsheen street Teragram street Trident street West Eagle street								300 600 450 232 2,797 2,485 4,595 471 3,576 500 2,195 2,803 535 468 228 1,062
Jeffries street Lillian street Marginal street Marion street Maverick street New street Paris street Porter street Putnam street Saratoga street Shawsheen street Teragram street Trident street								300 600 450 232 2,797 2,485 4,595 471 3,576 500 2,195 2,803 535 468 228

District								Length in Feet
Hyde Park								
Arlington street								2,592
Beaver street .								1,950
Chesterfield street								480
Child street .								1,990
Collins street .								736
Damon street .								551
Gordon avenue.								1,884
Malta street .								480
Neponset avenue	i	· ·	i.	·	· ·	Ţ.		2,151
Norway park .		·		•	•			730
Pine street	•	•	•	•	•	•	•	550
Pleasantview street	•	•	•	•	•	•	•	1,970
Radcliffe road .	•	•	•	•	•	•	•	1,281
Reservation road	•	•	•	•	•	•	•	2,500
T)	•	•	•	•	•	•	•	379
Wood ofwood	•	•	•	•	•	•	•	5,953
West street . Winslow street .	•	•	•	•	•	•	•	
winslow street .	•	•	•	•	•	•	•	450
Roxbury								
Bragdon street .								510
Clearway street	•	•	•	•	·	•	•	751
Edgewood street	٠	•	•	•	•	•	•	1,077
Ernst street .	•	•	•	•	•	•	•	326
0 1 1	•	•	•	•	•	•	•	314
TT:11.1.1	•	•	•	•	•	•	•	3,067
Irwin street .	•	•	•	•	•	•	•	314
	•	•	٠	•	•	•	•	2,100
Magazine street Miles street	•	•	•	•	•	•	•	2,100
	٠	•	٠	•	•	•	•	
Shattuck street	٠	•	•	•	•	•	•	1,450
South Boston								
C street								2,701
East Third street	•	•	•	•	•	•	•	4,434
	٠	•	٠	•	•	•	•	
Sleeper street .	•		•	•	•	•	•	1,050
West Roxbury								
Angell street .								900
D' 1		•	•	•	•	•	•	1,950
D 1	٠	•	•	•	•	•	•	689
Bonair road . Bowditch road .	•	•	•	•	•	•	•	772
Brook Farm road	•	•	•	٠	•	•	•	1,160
Carroll street .	•	•	•	•	•	•	•	
01.11 () 1	•	•	•	•	•	•	•	1,196
Chilcott place .	٠	•	•	•	•			478
Corey street .	٠	•	•	•	•	•		7,281
Cowing street .		•		٠		•	•	566
Dresden street .		•					•	389
Edgemere road .							•	1,776
Garnet street .								1,950

District								Length
HI D								in Feet
West Roxbury								
Hager street .								240
Halifax street .								971
Hayes street .								546
Holbrook street				•			٠	897
Haydn street .								615
Leniston street .		•	•	•		•	٠	575
Lorraine street .		•	•	•	٠	•	٠	846
Louder's Lane .	٠	•	•	٠	•	•	•	1,672
Macullar road . Midvale street .	•	•	•	•	•	•	•	431 620
Midvale street . Montvale street	•		٠	•	•	•		
Myrtle street .	•	•	•	•	•			1,059
Neponset avenue		•	•	•	•	•	•	1,060 1,018
Nikisch avenue.	٠	•		٠	٠	•	•	800
Paine street .	٠	•	٠	٠	٠	•	•	1,351
Pond View avenue		•		٠		•	•	693
Rockview street		•	:		٠	٠		1,621
Willowdean avenue		•			•	•	٠	600
Willow down a vende	•	•	•	•	•	•	•	000
Four (4) major sur program (1.2) miles.	veys	s wer	e ma	ide f	or th	e re	cons	truction
Hyde Park								
								2,500
Reservation road Pleasantview stree	ŧ.	•	•					1,970
1 leasant view butee	0 .	•	•		•	•		1,010
West Roxbury								
Brook Farm road	٠							1,160
70								
Brighton								
Kinross road .								613
Six (6) surveys and of 0.25 miles of Public I						disc	eont	inuances
BOSTON PROPER								
								100
Hanover street . Huntington avenue	٠	•		•		•	٠	380
Huntington avenue Washington and Sc	hoo	letro	ote.	٠				150
washington and Sc	1100.	sure	els		•	•	٠	100
South Boston								
Baldwin street								940
Granite street .	٠				•			240 170
Iorr atreat	٠	٠	٠	٠		•		$\frac{170}{250}$
Jay street								200

District								ength r Feet
Brighton								
Lake Shore road (see Undine road (sewer)	ewer)							760 140
West Roxbury								
Morrison street (sev	ver)							475
Forty (40) surveys at (3.78 miles) of easements as follows:	nd pl s for	lans sewe	were rage	mad and	de fo asse	or the ssmer	taki nt pu	ing of rposes
Boston Proper								
Compton street (uti	ility)							400
Brighton								
Chestnut Hill avenu	1e (as	ssessi	nent	.)				520
Fuston road (assess	ment			'.			•	530
Hardwick terrace Lake Shore road		,				:		120
Lake Shore road								1,780
Lake Shore terrace								240
Lake Shore terrace Undine road (privat	e lan	id)						81
Western avenue (ass	sessm	ient)						820
Hyde Park								
Collins street .								250
Draper street .	•	•	•		•	•	•	170
Edgemere road .	•	:	•	•		•	•	200
Edson terrace .	•	•	•	٠	•	•	•	100
Prospect Circle .	•	•	•	•	•	•	•	200
Ralston road .	:		:	٠	•	•	•	350
Sierra road				•	•	•	•	1,200
Sierra road Summit Circle .	•	•	•	•	•	•	•	190
Thorn street .	:	•	•			•	•	360
Vallaro road .	:		•		:	•	•	110
Yuletide road .	•	•	•	•	•	•	•	250
Hyde Park (R.R. la	nd) (wate	r ea	seme	nt)	•	•	4,880
West Boundary roa	d (w	ater e	Paser	nent)	•	•	200
West Boundary Toa	a (111 a	acci (,	•	•	200
West Roxbury								
Belle avenue .								700
Cataumet street	•	•		i.		į		200
Carol Circle								450
Cedarcrest Lane Cedarcrest road	:							250
Cedarcrest road								1,260
Cedarcrest terrace								240
Clarendon park .								450

District								Length
								in Feet
Cowing street .								440
Crest street .		٠						570
Crosstown avenue								300
Delore Circle .							٠	160
Eldon street .					•			100
Franclaire street					•	٠	٠	510
Mann street .					•	٠	•	120
Manning street .				•	٠	•		220
Metropolitan Circle				٠	٠			170
New Haven street	•		•		•	•	•	275
Ridgecrest Drive				•	•	٠		$\frac{600}{250}$
Schubert street .	٠	•	٠	٠	•	•	•	250
T (1) (1) (1)								,
Four (4) profiles for	high	nway	con	struc	etion	wer	e m	ade as
follows: (1.2 miles)								
Hyde Park								
Reservation road								2,500
Pleasantview street								1,970
								,
West Roxbury								
Brook Farm road								1,160
Drook Farm road	•	•	•	•	•	•	•	1,100
D								
Brighton								010
Kinross road .					٠			613
Nine (9) surveys and	nlar	20 1110	no m	obo	for r	nini	num	20170-
ments (0.97 miles) as fol	lowa	is we	re n	iaue	101 1	1111111	1111111	pave-
ments (0.97 miles) as for	iows	•						
Dorchester								
Orlando street .								300
Change street .	•	•	•	•	•	•	•	000
Hyde Park								
Edson street .								400
Garrity terrace.								300
Milton terrace .								400
West Roxbury								
								200
Partridge street					•			300
Running Brook road					•	٠	٠	1,600
Westmoor Circle	٠				•			100
Westmoor road	٠		•	٠	٠			1,420
Westmoor terrace	٠			•	•			330

Six (6) surveys and plans were made for specific repairs and widenings (Chapter 90) as follows: (2.9 miles)

District									Length in Feet
BRIGHTON									010 1 000
Lake street								٠	4,700
Dorchester									
Adams street									1,350
Hyde Park									
West Milton str	eet								2,800
South Boston									
East Broadway									900
L street .			٠	٠					800
West Roxbury									
Corey street									4,500
Request for marki	ng l	line :	and	grade	for	the i	ollov	ving	streets:
Boston Proper									
Aberdeen street									150
Berkeley street									75
Boylston street									1,600
Dalton street			•		•		•	•	600
Franklin street Newbury street		٠	•	•	•	•			100
Opera place									വവ
				•	•	٠	٠		200
Somerget street		•			•				300
Somerset street Staniford street		•	•	•	•				300 150
Somerset street Staniford street		•							300
				•		•			300 150
Staniford street					•	•			300 150
Staniford street Brighton					•				300 150 200
Staniford street Brighton Mapleton street									300 150 200
Staniford street Brighton Mapleton street Dorchester									300 150 200 1,149
Staniford street Brighton Mapleton street Dorchester Bernard street Hyde Park									300 150 200 1,149 300
Staniford street Brighton Mapleton street Dorchester Bernard street									300 150 200 1,149
Staniford street Brighton Mapleton street Dorchester Bernard street Hyde Park Albano street									300 150 200 1,149 300

District					Length in Feet
Roxbury					
Crestwood park					600
Longwood avenue					200
Massachusetts avenu	ıe				200
St. Alphonsus street					250
Warren street .					5,257
Washington street					443
South Boston Columbia road .			٠		100
West Roxbury					000
Charme avenue.					600
Clarendon park .					300
David road .					100
Mossbank footway					270
Tafthill terrace.					100
Tarleton street .					250
West Boundary road	l				600

Approximately eleven (11) takings and twenty-six (26) specific repairs were made in connection with Chapter 90 surveys and reconstruction surveys.

Personnel of the survey section were assigned to snow removal operation including supervision, inspection and auditing of hired equipment accounts.

Surveys for engineering reports one hundred and fifty (150) approximately 30 miles.

Points for construction requested (1.1 mile)

Dorchester Norfolk street					3,800
Roxbury Crestwood park					600
West Roxbury March avenue Robeson street				:	488 1,000

Office representatives summoned by the Law Department to appear at Suffolk, Middlesex and Plymouth County Court House Hearings.

Ten (10) plans were made for Law Department action cases in various parts of the city.

TOPOGRAPHIC SURVEYS

Length District in Feet

BOSTON PROPER

Blagden Street (Public Library)

DORCHESTER

Cushing School

EMINENT DOMAIN TAKINGS (Survey & Plans)

DORCHESTER

Bradshaw Street (school) Charles Street (school)

Northdale Road (Private Land)

CROSS SECTIONS for Sewerage Purposes

020000 1020020						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Hyde Park Dedham Street (pri	vate	e land	d)					620
Dedham Street (pri Thompson Street			,					1,500
Thompson Street	•	•	•	•	•	•	•	1,000
Charlestown								
Mt. Vernon Street Walker Street .								150
Walker Street								175
Warker Street .	•	•	•	•	•	•	•	110
Roxbury								
Amory Street .	•	•	٠	•	•		٠	326
West Roxbury								
Cedarcrest Road &	Cir	cle						800
Hawthorne Road								523
maw morne moad					•			020

2,300

DESIGN SECTION TABLE 3

					120	3	IN LEG	SIL	1904 CONTRACTS ADVERTISED			
CONTRACT									District	Length	*Estimated Cost	Date of Bid Opening
Construction of and Water Works in:	ter	Work	a in:							(Feet)	**Bid Price	0
Beech street			•						00	498	\$40.854.00	9 /13 /64
Deechmont street			•						∞	1,254	53,142 00	2/13/04
and Construction of:												X0 /01 /3
Goff street									9	604	894 000 00	10/ 01/ 0
Leseur road	٠				٠				00	180	8 254 00	2/13/64
Maida terrace									∞	224	11.585 00	9/13/64
Dolumed Tool									9	397		9/13/64
Replay nood									00	326		2/13/64
realized load			•						00	376		2/13/64

t		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 1,001 18,081 00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 500 9,156 00	3 1,011 16,325 00 3 882 10,222 00	3 754 11,497 00	3 1,271 14,312 00		3 1.034 12.819 00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\ldots \ldots \ldots 3$ 751 $12,503$ 00	3 809 13,037 00	16,385 00		reet	*\$260,817 00 **233,874 80	mont Footway 8 260 87,556 00 5/26/64 8 1,170 32,991 00 5/26/64 5/26/64	Highway \$40,547 00
Contract Reconstruction of:	Bellevue street . Browning avenue	Castlegate road .	Corona street	East street Ellet street	Everett avenue.	Holiday street Mt. Bowdoin terrace	Mt. Everett street	Normandy street	Oakley street	Radeliffe street	Seaver street	Shafter street .	Spencer street .	Sudan street	Supple road .	Westcott street .	Construction of and W	Beechmont Footway Edgeway terrace	

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Construction of: Crestwood Park	Reconstruction of:	Bigelow street .	Brentwood street	Carol avenue .	Charlesview street	Claymoss road .	Eulita terrace .	Euston road .	Gerald road .	Gordon street .	Greycliff road .	Hobson street .	Mapleton street.	Mt. Hood road .	Priscilla road .	Raymond street	Rogers Park avenue	Sanderson place .	Wade street .	Walbridge street	Wallingford road	

Date of	Bid Opening		7/16/64	7/16/64	7/16/64	7/16/64	7/16/64	7/16/64	7/16/64	7/16/64	7/16/64	7/16/64	7/16/64	7/16/64	7/16/64	7/16/64	7/16/64	7/16/64			7/23/64	7/23/64	7/23/64	7/23/64	7/23/64	1/23/64	1/23/04
Cost	**Bid Price		\$36,763 00	3,916 00	6,883 00	14,329 00	6,761 00	12,721 00	34,589 00	16,597 00	23,742 00	7,190 00	25,140 00	4,522 00	23,481 00	15,874 00	68,362 00	10,336 00	*\$311,206 00 **\$272.763 00		\$13,271 00	23,713 00	6,309 00	6,086 00	12,135 00	18,094 00	9,920 00
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Lucerne street . Monson street . Norwell street . Standard street . Tiverton road . Wheatland avenue	Reconstruction of:	Arlington street	Beaver street	Chesterfield street	Child street	Hyde Fark avenue	Maita street	Norway Fark	Fine street .	Koxana street	West street.	Winslow street	Reconstruction of:	Forsyth street Opera place	

Date of Bid Opening	9/3/64 9/3/64			9/17/64	9/17/64	9/17/64	9/17/64	9/17/64	9/11/64	9/11/64	9/17/64	9/11/64	9/11/64	9/11/64	8/17/64	9/17/64	9/11/64	9/11/64	9/11/64	9/11/64	
*Estimated Cost **Bid Price	\$30,343 00 19,025 00	*\$49,368 00 **\$57,867 50		\$22,429 00	7,883 00	28,331 00	21,135 00	13,916 00	30,593 00	16,139 00	14,356 00	16,625 00	19,598 00	15,561 00	20,829 00	18,405 00	19,143 00	15,872 00	6,349 00	11,255 00	***************************************
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Construction of and street lighting in:	Longwood avenue St. Alphonsus street		Construction of:	David road .	Evandale terrace	Holly road	Manchester street	Manion road .	Manley street .	Newkirk street .	Trilling way .	Construction of	Ring road and	Sidewalks adjacent	to Auditorium,

*\$390,613 00 **\$381,403 00

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*Estimated Cost **Bid Price		\$11,529 00	9,596 00	53,984 00	5,661 00	39,820 00	7,815 00	8,470 00	11,934 00					4,037 00					12,480 00	28,610 00	11,624 00	16,968 00	2.884 00	13,100 00	Highway \$350,613 00
Length	(000 =)	648	645	1,526	501	2,701	416	751	620	517	1,547	855	217	233	229	1,482	731	754	1,093	965	430	1,163	147	268	
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Contract	Reconstruction of and Street Lighting in:	Allston street .	Beacham street .	Belvidere street .	Branch street .	C street	Cedar street .	Clearway street.	Dorrance street .	East Third street	East Third street	Green street .	Hancock street .	Lawnwood place	Ludlow street .	Myrtle street .	Pembroke street	School street .	Sleeper street .	Sullivan street .	Trenton street .	Tuttle street .	Wesley place .	West Cedar street	

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# CITY DOCUMENT No. 18

Date of Rid Onening		1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	1/27/65	
Cost **Rid Price		\$13,940 00	9,245 00	26,230 00	7,116 00	047	057	23,030 00	6,495 00	7,959 00	2,466 00	18,225 00	8,674 00	58,616 00	3,630 00	5,090 00	20,020 00	28,205 00	30,098 00	10.930 00	35,482 00	
Length (Feet)	(ann -)	873	772	1,138	478	1,171	386	1,104	326	314	198	971	475	3,067	314	277	626	1,083	1,018	693	1,621	
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Contract	Reconstruction of:	Binney street	Bowditch road .	Bragdon street .	Chilcott place .	Clifford street	Dresden street .	Edgewood street	Ernst street	Gardner street .	Goldsmith street	Halifax street .	Halleck street .	Hillside street .	Irwin avenue .	Miles street .	Mt. Hope street	Myrtle street .	Neponset avenue	Pond View avenue	Rockview street	
	District Length Cost (Feet) **Bid Price	District Length Cost (Feet) **Bid Price B	District Length	District Length	District Length	District Length	District Length	Cost   Check   Cost   Cost	Cost   Check   Cost   Check   Check	Cost   Cost	Cost   Cost	Hength Well Frice Length Well Frice (Feet) May Price (Fee	Cost   Cost	Cost   Cost	Check   Chec	Cost	Check	Cost	Check   Chec	Hength He	Hength Well Feet Cost.    10	Hength He

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Date of t Description **Bid Price Bid Opening	545-foot sewer, 562-foot surf. drain, 5 sewer MH's and 3 S.D. MH's $2/13/64$	670-foot sewer, 5 sewer MH's and 150-foot water pipe \$373,300 00 2/13/64	900-foot sewer, 2620-foot surf. drain, 5 sewer MH's and 13 S.D. MH's \$80,920 00 2/21/64	1000-foot sewer, 500-foot surf. drain, 6 sewer MH's 3 S.D. MH's and 2 CB's \$38,795 00 4/16/64	3200-foot surf. drain, 12 S.D. MH's, 10 CB's and 2 DI's \$88,645 00 7/08/64	1500-foot sewer, 1510-foot surf. drain, 13 sewer MH's, 6 S.D. MH's and 13 CB's			\$52,580 00 7/16/64	1540-foot sewer, 1220-foot surf. drain, 8 sewer MH's, 6 S.D. MH's and 1 CB \$77,059 00 7/30/64	275-foot sewer, 250-foot surf. drain, 1 sewer MH and 3 S D MH's \$19.294 00	875-foot sewer, 1070-foot surf. drain, 1 sewer MH and 7 S.D MH's	140-foot sewer \$37,823 00 12/17/64
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Contract	Sewerage Works in: St. Alphonsus street Tremont street	Dalton street .	Hancock street . Pleasant street .	Chestnut Hill avenue Western avenue Wiltshire road	Readville street . Knight street .	Ashland street .	Dednam street . Delore Circle .	Evandale terrace Fernwood road	Hillis road . New Haven street Yuletide road .	Boylston street .	First Village Outlet in G. Wright Golf Course and Private Land	Hawthorne street Maple street	Dalton street

Date of Bid Opening	surf. drain, 27 B's. drant pipe, 25	3/19/64 surf. drain, 12 B's. rt pipe, 8 gates	surf. drain, 7  8/13/64	surf. drain, 9 s. f. pipe, 12 gates	surf. drain, 1 it pipe, 3 gates	drain, 1 sewer 10/15/64
**Bid Price	Sewerage—5,400-foot sewer, 5,760-foot surf. drain, 27 sewer MH's, 20 S.D. MH's and 34 CB's. Water—5,400-foot main, 200-foot hydrant pipe, 25 gates and 13 hedrants.	Sewerage—1,900-foot sewer, 1,940-foot surf. drain, 12 sewer MH's, 10 S.D. MH's and 11 CB's.  Water—1390-foot main, 40-foot hydrant pipe, 8 gates and 4 hydrants.  \$89,830 00	Sewerage—970-foot sewer, 1,150-foot surf. drain, sewer MH's, 6 S.D. MH's and 4 CB's. Water—1,650-foot main and 7 gates. \$47,415 70 8/13/	Sewerage—1490-foot sewer, 1500-foot surf. drain, 9 sewer MH's, 8 S.D. MH's and 10 CB's.  Water—1,490-foot main, 70-foot hydrant pipe, 12 gates and 5 hydrants.  \$85,486 50	Sewerage—175-foot sewer, 1,140-foot surf. drain, 1 sewer MH, 5 S.D. MH's and 8 CB's. Water—1,030-foot main, 10-foot hydrant pipe, 3 gates and 1 hydrant.  \$32.734 00 9/24/64	2 e
Description	Sewerage—5,400-foot sesewer MH's, 20 S.D. I Water—5,400-foot mair	Sewerage—1,900-f sewer MH's, 10 Water—1390-foot and 4 hydrants.	Sewerage—970-foc sewer MH's, 6 S Water—1,650-food	Sewerage—1490-f sewer MH's, 8 S Water—1,490-foot and 5 hydrants.	Sewerage—175-foc sewer MH, 5 S. Water—1,030-foot and 1 hydrant.	Sewerage—240-foot sewer, 245-f MH, 1 S.D. MH and 2 CB's. Water—475-foot main. \$11,53
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Contract rerage & Water Works in:	Blue Ledge Drive Blue Ledge terrace Highcrest road Highcrest terrace	June street Blueview Circle Blueview road Cedarcrest Circle Cedarcrest road	Manning street Pleasant Valley Circle Lawn avenue Palermo street	Charlame street Relocated Laurel street Humboldt avenue Sherman street	Itasca street Schubert street . Eldon street . Hutchinson street Soldiers Field road	Furbush road . Thorn street .

Sewerage—1,200-foot sewer, 1,250-foot surf. drain, 10 sewer MIFs, 6 S.D. MIFs and 6 CBs.  Water—1,090-foot main, 20-foot hydrant pipe, 5 gates and 2 hydrants.  \$40,806 00 11/19/64	Sewerage—980-foot sewer, 1,350-foot surf. drain, 7 sewer MH's, 9 S.D. MH's and 19 CB's.  Water—3,150-foot main, 190-foot hydrant pipe, 21 gates and 11 hydrants.  \$103,015 00 11/27/64	Sewerage—910-foot sewer, 900-foot surf. drain, 6 MH's, 4 S.D. MH's and 4 CB's. Water—650-foot main, 25-foot hydrant pipe, 4 gates and 2 hydrants. \$45,897 50 12/29/64	6,150-foot main, 25 gates and 14 hydrants.	\$97,975 00 4/16/64	2,390-foot main, 8 gates and 4 hydrants. 6/4/64	1,350-foot main, 2 gates and 1 hydrant.
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# CITY DOCUMENT No. 18

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**Bid Price	\$14,822 00	and 2 h	hydran \$78,51	\$345,97	\$4,805 90	\$12,521 50	\$15,360 00	\$15,10
Description		1,335-foot main, 3 gates and 2 hydrants. \$17,445 00	4,550-foot main, 60-foot hydrant pipe, 16 gates and 6 hydrants.	Bridge and Approaches. \$345,975 00	Street Lighting System.	Loam and Sodding.	Street Lighting System.	Street Lighting System. \$15,100 00
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Contract	Waver Works in: Hillis road Imbaro road New Haven street	Vine street La Grange street Byron road Private land	Alwin street Dedham Parkway Stony Brook Reservation Private Land	Miscellaneous Contracts: Dalton Street Bridge	Crestwood park .	George Wright Golf Course	Burbank street . Edgerly road . Hemenway street Norway street . Stoneholm street . Whipple street .	Boston Common

#### APPENDIX D

#### HIGHWAY DIVISION

Table 1 — Work Done by Contract

Table 2 — Street Construction Work

Table 3 — Highway Maintenance Work

Table 4 — Street Lighting

Table 5 — Expenditures for Tidewater Bridges

Table 6 — Waterborne Traffic Through Drawbridge

Table 7 — Expenditures on Inland Bridges

Table 8 — Bridge Maintenance Work

# TABLE I WORK DONE BY CONTRACT IN 1964

Ітем	QUANTITY
Excavation (earth and service) .	. 58,029 cubic yards
Excavation (rock)	. 719 cubic yards
Bank gravel	. 71,244 tons
Crushed stone for edgestone	. 3,522 tons
Base removed (existing)	. 9,371 square yards
Pavement removed (existing) .	. 55,009 square yards
New straight edgestone	. 41,527 lineal feet
New circular edgestone	. 17,409 lineal feet
New edgestone corners 2-foot radius	. '736 each
Edgestone reset and relocated .	. 89,732 lineal feet
Edgestone hauled	. 7,346 lineal feet
Macadam base	. 12,816 tons
OA asphalt	. 124,369 gallons
Concrete base class "B" for roadway	. 3,335 cubic yards
Concrete base (backing up sidewalk)	. 168 cubic yards
Bituminous concrete base (roadway)	. 31,924 tons
Bituminous concrete base (patching)	. 108,952 square feet
Bituminous concrete top (roadway)	. 25,832 tons
Bituminous concrete top (patching)	. 108,952 square feet
Bituminous concrete base (sidewalk)	91 tons
Bituminous concrete top (sidewalk)	. 503 tons
Artificial stone sidewalks	.1,270,265 square feet
Artificial stone sidewalks (patching)	. 246,551 square feet
Artificial stone driveways	. 176,893 square feet
Loam (square yards)	. 1,318 square yards
Loam (cubic yards)	. 1,075 cubic yards
Covers	. 3,022 each
Catch basins or manholes rebuilt	. 193 each
Catch basins or drop inlets built .	. 158 each
Sign posts (street)	. 639 each
Parking meters reset	. 9 each
Stone bounds	. 47 each
Minor drain	. 1,556 lineal feet
Bituminous concrete (roadway) area	. 340,820 square yards
(	.,

\$479,998 75

#### TABLE 2

# STREET CONSTRUCTION WORK

The following is a summarized record of the highway improvement work one by the Department in 1964:

umber of stree 1906, as most						nst.							Acts		1	.49
				ST	REET	Co	NSTR	UCTI	ON	Wor	K					
Vashington Par	k I	Rede	velop	ment											\$160,235	
ridge Loan															246,820	
idewalk Loan															96,250	
hapter 782															637,119	
hapter 822				•							•				788,264	
ublic Ways Lo	an			•		٠				•		•	٠	•	1,762,434	00
Total .															\$3,691,122	00
							Bri	DGE								
ridge Loan	٠	٠	٠	٠		٠	٠	٠	•	•	٠	٠	٠	٠	\$240,820	00
			Сна	PTER	90 I	Proj	ECTS	Co	MPLI	ETED	IN	1964				
STREET							L	IMITS	3				(	CONT	TRACT AMOU	NT
ongress street		F	ort F	oint	Chai	nnel	to b	evon	d St	illing	s sti	eet			\$37,251	00
) street			Orch												96,743	
uincy street			olum												53,446	
avin Hill avenu	ıe		Hill	cour	t to	Old	Colo	ny te	errac	e.			d Sa		53,292	50
Broadway and Arlington stre	o+	٧			stre								treet	w	40,714	75
Vorfolk street	σı	E	Babso	n str	eet to	Ta	lbot	aven	ue	:		:	:	:	198,551	

# TABLE 3

## HIGHWAY MAINTENANCE WORK

Bituminous roadway repairs	3,903	square yards
Bituminous sidewalk repairs		square yards
Bituminous driveway repairs		square yards
Granite block roadway repairs		square yards
Macadam roadway repairs		square yards
Stone wall repairs		cubic feet
Brick sidewalk repairs		square feet
Artificial stone sidewalk relaid		square feet
Straight granite edgestone reset		lineal feet
Circular granite edgestone reset		lineal feet
Corners (2-foot) granite edgestone reset		units
Corners (2-foot) granite edgestone set .	6	units
Pre-cast concrete curbing reset	140	lineal feet
Chain-link fence repairs		lineal feet
Loam spaces replaced		square yards
Water boxes reset		units
Catch basin remodeled		unit
Guttermouths reset		units
Police signal box relocated		unit
Erected iron posts for barricade		units
Excavated for and set gas lamps (North	ŭ	CARACTO .
square)	5	units
Bituminous roadway and sidewalk re-	J	G222 010
pairs (temporary)	130.127	square yards
Concrete curbing repaired	1,060	
Brick sidewalk repaired		square yards
Debris removed from streets		cubic yards
Salt and sand spread	36,277	
Snow removal		cubic yards
Calcium chloride used	201,200	
Catala Landon alamad	3,645	00110

# TABLE 4 STREET LIGHTING

#### MERCURY VAPOR LIGHTING PROJECTS - 1964

In 1964 orders were issued for the installation of 3,500 lumen lamps and the replacement of old lighting units on the following streets:

Acacia road, West Roxbury .					2
Alberta street, West Roxbury .					4
Alvarado avenue, Hyde Park .					3
Alward road, West Roxbury .					4
1 177 ( D 1					3 2 7 7
1 1 1 1 77 1 70 1					2
Annafran street, Hyde Park and We	st Ro	xbu	ïV		7
Ansonia road, West Roxbury .					7
Arbroth street, Dorchester					3
Arlington street, Hyde Park .					2 5 3
Atkins street, Brighton					5
Baker place, West Roxbury .					3
Baxter street, South Boston .					8
Belfort street, Dorchester					8 5 2 6
Belmore terrace, West Roxbury					2
Bellaire road, West Roxbury .					6
Bertson avenue, West Roxbury .					5
Bird street, Dorchester					10
Birch street, West Roxbury .					16
Blackwell street, Dorchester .					4
Blake street, Hyde Park					19
Bonair street, West Roxbury .					6
Bowditch road, West Roxbury .					6
Bowman street, Dorchester .					4
Brahms street, West Roxbury .					5
Bragdon street, Roxbury					7
Brook Farm road, West Roxbury					26
Brownson terrace, West Roxbury					4
Burard street, West Roxbury .					3
Burnham place, South Boston .					1
Carroll street, West Roxbury .					8
Castleton street, West Roxbury					6
Caton street, Hyde Park					5
Cerdan avenue, West Roxbury .					13
Cerina road, West Roxbury .					2 7
Chapin avenue, West Roxbury .					
Chestnut square, West Roxbury					3
Chilcott place, West Roxbury .					5
Clare avenue, Hyde Park and West	Roxb	ury			23
Claymont terrace, Dorchester .					4
Colby road, West Roxbury .					3

Collins street, Hyde Park .							4
Columbine street, Dorchester							2
Coniston road, West Roxbury							6
Conrad street, Dorchester .							1
Corey terrace, West Roxbury							2
Corey terrace, West Roxbury Cowing street, West Roxbury							12
Cromwell road, Hyde Park							2
Crown street, Hyde Park							2
Cypress street, West Roxbury							4
Damon street, Hyde Park .							4
Decatur street, East Boston Delford street, West Roxbury							2
Delford street, West Roxbury							2
De Soto road, West Roxbury							11
Dixfield street, South Boston							2
Dresden street, West Roxbury Dwinell street, West Roxbury							3
Dwinell street, West Roxbury							9
Elgin street, West Roxbury							5
Elgin street, West Roxbury Ellet street, Dorchester							3
Elwell road, West Roxbury							2
Eulita terrace, Brighton .							2
Evandale terrace, Dorchester							2
Fairlane road, West Roxbury							1
Fairview avenue, Hyde Park							8
Fort Avenue terrace, Roxbury							2
Frankfort street, East Boston							12
Garnet road, West Roxbury							11
Glenley terrace, Brighton .							4
Gerald road, Brighton							4
Glenham street, West Roxbury							10
Goff street, Hyde Park .							5
Goldsmith street, West Roxbury	v						4
Gove street, East Boston .							12
Gould street, West Roxbury							10
Greycliff road, Brighton .							
Griggs street, Brighton .							2
Hackensack court, West Roxbu	rv	Ĭ					2
Hallet-Davis street, Dorchester	- 5		Ċ				5 2 2 3 7
Hallowell street, Dorchester					Ċ		7
Haydn street, West Roxbury	i	Ċ	· ·	Ċ	Ĭ.	·	
Hayes road, West Roxbury	•			· ·			5 5
Hemman street, West Roxbury	•				· ·	Ċ	6
Highland Park avenue, Roxbury		i	:	·			4
Highland Park street, Roxbury		•	•	·		Ċ	$ar{2}$
Hobson street, Brighton .	•	•	•	•	•		7
Horace street, East Boston	•	•	•	•	•	•	10
Hunnewell avenue, Brighton							
Jacqueline road, West Roxbury							2
Jeffries street, East Boston.							8 2 5 2
Kevin road, Dorchester .	•	•		•			2
Laban Pratt road, Dorchester	•	•	•		•	•	3
Laban i ratt road, Dorchester							0

Public Works I	DEPA:	RTM	ENT			101
Langley road, Brighton						7
Lantern Lane, West Roxbury .	•	·	·	Ċ	·	2
Ledgedale road, West Roxbury .					•	$\frac{1}{2}$
Leniston street, West Roxbury .	•	٠		٠	•	5
Lennoco road, West Roxbury .					•	2
Lillian street, East Boston	•	•		•	•	$\frac{1}{2}$
Linwood street, Roxbury	•	٠		•	•	6
Liszt street, West Roxbury	•	•	•	•	•	5
Logan street Roybury	•	•	٠	•	•	3
Logan street, Roxbury Louder's Lane, West Roxbury .	•	•		•	•	14
TI ( TI ( D )					•	5
Lyall street West Royburg			٠		•	10
Malcolm road, West Roxbury .	•	•			•	12
					•	4
	•	٠	•	•	•	7
Massasoit street, Hyde Park	•	•		•	•	5
Mattakeeset street, Hyde Park					•	3
Metropolitan avenue, Hyde Park	•		•		•	
Midvale road, West Roxbury .	•	٠		٠		5
Milton terrace, Hyde Park					•	2
Moraine street, West Roxbury .	•		•		•	12
Monponset street, Hyde Park .			:			5
Morley street, Roxbury		٠				2
Mossdale road, West Roxbury .						10
Mt. Hood road, Brighton						4
Mt. Pleasant street, Hyde Park						3
Myrtle street, West Roxbury .						9
Nahant street, Dorchester						8
Narragansett street, Dorchester						2
New Haven street, West Roxbury						2
New Haven street, West Roxbury Nikisch avenue, West Roxbury . Norfolk street, Roxbury						6
Norfolk street, Roxbury						5
Normandy street, Dorchester .						9
Norway park, Hyde Park						5
Ocean street, Dorchester						13
Oldfields road, West Roxbury .						5
Paine street, West Roxbury .						12
Parkson street, Hyde Park						4
Pasadena road, Dorchester						6
Paulman Circle, West Roxbury .			•			$\tilde{2}$
Peverell street, Dorchester						$\frac{7}{4}$
Pinewood street, Hyde Park .	:					$\overline{4}$
Pleasant View street. Hyde Park						10

 $\begin{array}{c} 6 \\ 5 \\ 3 \\ 2 \\ 1 \\ 7 \\ 3 \end{array}$ 

Pond Circle, West Roxbury

Pond View avenue, West Roxbury President road, West Roxbury . Queen street, Dorchester . Remington street, Dorchester . Ridge street, West Roxbury . River Street terrace, Hyde Park Roanoke road, Hyde Park .

Rockledge street, Roxbury .							3
Rockview street, West Roxbury							16
Roseglen road, Hyde Park .							2
Rosecliff street, West Roxbury					· · ·		5
Rosemont street, Dorchester							6
Roxana street, Hyde Park							3
Safford street, Brighton .							3
Safford street, Brighton Salcombe street, Dorchester							6
Salina road, Dorchester Sherrin street, Hyde Park Soldiers Field place, Brighton							4
Sherrin street, Hyde Park .							10
Soldiers Field place, Brighton							3
South Munroe terrace, Dorchest	er						6
Couthwish stude Danshaston							2
Spring Garden street, Dorchester	r						7
Sudan street, Dorchester .							8
Suncrest road, Hyde Park .							3
Supple road, Dorchester .							8
Sumner street, Dorchester . Swallow street, South Boston							12
Swallow street, South Boston							4
Tarleton road, West Roxbury Teragram street, East Boston							4
Teragram street, East Boston			:				4
							21
Tiverton road Dorchester			:				3
Tolman street, Dorchester .							4
Tolman street, Dorchester . Verdun street, Dorchester . Violet street, Dorchester . Wade street, Brighton . Walnut street, Hyde Park . Wedgewood road, West Roxbur West Sixth street, South Bostor Whitcomb avenue, West Roxbury Welland road .							4
Violet street, Dorchester .							5
Wade street, Brighton							5
Walnut street, Hyde Park .							9
Wedgewood road, West Roxbur	У						2
West Sixth street, South Boston	ì						12
Whitcomb avenue, West Roxbu	ry						19
Whitford street, West Roxbury							17
Welland road, West Roxbury Winslow street, Hyde Park							2
Winslow street, Hyde Park							4
Wilder street, Dorchester .							4
,							
In 1964 orders were issued	for	the	inst	allat	ion	of 7.	000
lumen lamps and the replace							
on the following streets:	CIIIC	,110	)1 01	.u 118	511011	15 U	1100
on the following streets:							
Allston street, Brighton .							2
Alreh Wittnedge nouls Darbum		· ·	i				1
Arlington street. Hyde Park		Ĭ.					16
Arlington street, Hyde Park Cedar street, Roxbury							23
Clifford street, Roxbury							9
Edgerly road, Roxbury							6
Harvard avenue, Hyde Park							13
Highland street, Hyde Park							27
Neponset avenue. West Roxbur	v						20
Cedar street, Roxbury Clifford street, Roxbury Edgerly road, Roxbury Harvard avenue, Hyde Park Highland street, Hyde Park Neponset avenue, West Roxbur Norway street, Boston							6

Public Wo	ORKS	D:	EPA	RTM	1ENT	?		103
Pope's Hill street, Dorchest	er							4
Reservation road, Hyde Pa								22
Standard street, Dorchester								9
Stoneholm street, Roxbury								3
Train street, Dorchester								20
Vermont street, West Roxb								31
Wallingford road, Brighton								15
Woodrow avenue, Dorchest								28
In 1964 orders were iss	her	for	the	ins	talla	tion	of 1	1.000
lumen lamps and the re								
		eme	6111	01	ora	ngn.	mg	umus
on the following streets:								
East Cottage street, Dorch	ester							6
Foster street, Brighton								18
Waldemar avenue, East Bo	ston							21
West Milton street, Hyde I	Park							21
Wood avenue, Hyde Park								32
In 1964 orders were iss	sued	for	the	ins	talla	tion	of 2	0.000
lumen lamps and the re								
		CIII	CILU	OI	ora	115110	1116	ann
on the following streets:								
Arlington street, Boston								12
Bennington street, East Bo	ston							40
Berkeley street, Boston								3
Broadway, Boston								15
Clarendon street, Boston								2
Congress street, Boston								8
Hemenway street, Boston								22

## Gas Lamp Program — 1964

During the year 1964 there were approximately 240 gas lamps maintained by the City of Boston. There were 12 gas lamps installed for the year 1964.

## MAINTENANCE OF POLICE SPOTLIGHTS

The maintenance of 97 police spotlights continued for the year 1964. There were no new installations for the year 1964.

TABLE 5
DETAILS OF EXPENDITURES OF TIDEWATER BRIDGES FOR THE YEAR 1964

Bridge	Draw- tenders' Salaries	Mechanics' Wages	Material	Repair Bills	Supplies, Utilities, Etc.	Total
Chelsea Street	\$60,724 22	\$1,246 90	\$24 33	_	\$713 32	\$62,708 77
Congress Street	20,237 06	602 20	9 70	- 1	878 42	21,727 38
Malden Bridge	66,389 53	4,940 40	110 51	_	1,026 45	72,466 89
Andrew P. McArdle	70,107 87	966 90	428 13	_	1,679 59	73,182 49
Northern Avenue	81,842 18	13,285 40	2,378 73	\$931 93	2,814 26	101,252 50
Summer Street (Fort Point Channel)	23,198 71	3,373 60	168 89	977 78	_	27,718 98
Summer Street (L St.) (Reserved Channel).	42,854 20	8,100 70	430 46	_	842 63	52,227 99
Totals	\$365,353 77	\$32,516 10	\$3,550 75	\$1,909 71	\$7,954 67	\$411,295 00

TABLE 6
WATERBORNE TRAFFIC THROUGH DRAWBRIDGES: 1964

	MATERIORINE TRAITIC THROUGH DRAWBRIDGES, 1904	ALL IVAL	INCOMI	DRAWDE	indes, 1	904		
Вяграв	Steamers	Tugs	Barges	Pleasure Craft	All	Total Vessels	Total Cargoes	Total Openings
Chelsea Street	485	4,611	1,362	1	78	6,536	939	3,058
Congress Street	1	1	1	1	1	1	1	1
Andrew P. McArdle	989	6,040	1,401	23	386	8,515	901	3,606
Malden	42	2,243	1,218	2,007	386	5,896	742	3,795
Northern Avenue	1	439	73	4	381	268	148	533
Summer Street (Fort Point Channel)	1	1	1	1	1	1	I	I
Summer Street (Reserved Channel) (L Street)	1	23	63	164	1	169	1	152
Totals	1,213	13,335	4,056	2,177	1,232	22,013	2,730	11,144

#### TABLE 7

# EXPENDITURES ON INLAND BRIDGES IN 1964

Labor Materials Total \$43,978 80 \$4,815 81 \$48,749 61

The above figures represent total cost of maintenance repairs on inland bridges, namely footbridges over railroads, etc., using our department yard employees, materials and supplies.

### TABLE 8

# WORK DONE BY BRIDGE SECTION CITY FORCES BRIDGE MAINTENANCE WORK IN 1964

Central Avenue — The stringers and decking of ½ the roadway were renewed.

Fairmount Avenue — Made major repairs to the sidewalk and roadway wearing surfaces.

L Street — Over Reserved Channel (Summer Street):

replaced broken shive wheel and supporting timbers.

Malden — Did considerable welding of roadway grill work.

Northern Avenue — Replaced large area of worn asphalt planking with 2 x 8 hard pine planking.

Summer Street — Over Fort Point Channel: replaced worn decking and sheathing on  $\frac{1}{2}$  downstream and  $\frac{1}{2}$  upstream draw leafs.

Replaced worn roadway and sidewalk planking on the various bridges throughout the city.

## APPENDIX E SANITARY DIVISION

Table 1—Payments to Refuse Collection Contractors

Table 2—Payments for Rental of Dumps

Table 3—Removal of Garbage

Table 4—Payments for Removal of Incinerator Residue

Table 5—Payments for Removal of Rejected Material

Table 6—Payments for Removal of Derelict Automobiles

Table 7—Expenditures

Table 8—Operating Costs

Table 9—Unit Costs

TABLE 1

# PAYMENTS TO REFUSE COLLECTION CONTRACTORS, FIRST THREE MONTHS — JANUARY, FEBRUARY, MARCH

	District	Contractor	Total 3 Months, Payments*
1A	Charlestown	Jeffries Disposal Corporation	\$12,842 80
1B	Downtown	James A. Freaney, Inc	42,311 64
1C	Uptown	United Contracting Company, Inc., of Boston	34,883 57
2	Jamaica Plain	Ryan, Coady Company	40,168 74
3	Dorchester (N)	Dooley Bros., Inc	71,209 35
4	Brighton	J. F. Ryan, Inc.	59,822 60
5	South Boston	Joseph Amara & Sons, Inc	21,297 12
6	West Roxbury	F. J. Cavaliere & Co	51,748 56
7	Dorchester (S)	Coleman Bros., Corporation	73,562 83
8	Hyde Park	Howard Disposal Corporation	24,863 35
9	East Boston	Jeffries Disposal Corporation	25,179 80
10A	Parker Hill-Fens	Dooley Bros., Inc	29,847 75
10B	Roxbury	United Contracting Company, Inc., of Boston	46,603 90
,	Total 3 months		\$534,342 01

^{*} Including extra labor costs.

## PAYMENTS TO REFUSE COLLECTION CONTRACTORS, LAST NINE MONTHS—APRIL 1 TO DECEMBER 31, INCLUSIVE

_			
	District	Contractor	Total 9 Months, Payments
1.4	. Charlestown	Banco Corporation	\$49,983 00
1 B	Boston Proper	James A. Freaney, Inc	240,615 40
	Jamaica Plain	Joseph Amara & Sons, Inc	144,960 40
3	Dorchester (North)	Jeffries Disposal Corporation	241,473 80
4	Brighton	J. F. Ryan, Inc.	199,522 20
5	South Boston	United Contracting Company, Inc., of Boston	90,607 20
6	West Roxbury	M. & C. Corporation	191,160 00
7	Dorchester (South)	United Contracting Company, Inc., of Boston	252,338 20
8	Hyde Park	Jeffries Disposal Corporation	116,979 00
9	East Boston	Banco Corporation	95,535 20
10	Roxbury	Dooley Bros., Inc.	180,677 60
	First 3 months total		\$1,803,852 00 \$534,342 01 \$2,338,194 01

# TABLE 2 -- PAYMENTS FOR RENTAL OF DUMPS

3 Момпия 9 Момпия	
	\$28,500
Total.	\$30,375
TABLE 3-REMOVAL OF GARBAGE	
Transfer Station         3 Montries         9 Montries           Victory Road         83,250         89,550           Gardner Street         83,250         89,550           Total         7 Total         83,250         89,550	\$13,100 \$13,100 \$26,200
TABLE 4—PATMENTS FOR REMOVAL OF INCINERATOR RESIDUE	
Manning Motor Trans., Inc.	\$22,790
TABLE 5 PATMENTS FOR REMOVAL OF REJECTED MATERIAL	
Jamee A. Freaney, Inc.	\$4,980
TABLE 6-REMOYAL OF DERELICT AUTOMOBILES	
J & L Iron Company.	\$11,854
Grand total.	\$2,434,393

# TABLE 7 SUMMARY OF PAYMENT

Payments to refuse col Payments for rental o Payments for removal Payments for disposal Payments for removal mobiles Payments for remo residue Payments	f Sat of g of real of	ugus garba eject f de	age ted n relic	np nater t aut	ial		00 00 00	
Payroll totals were as fo	llow	s:	٠	٠	ct			\$2,434,393 00
Administrative and ge Collection section Disposal section .	enera	l sei	rvice	8.	:	\$65,059 397,767 558,490	00	
Total payrolls .  Overtime payrolls .  Total Sanitary Division	· pay	rolls				\$1,021,316 140,856	00	1,162,172 00
Incinerator operation an	nd m	aint	tenar	ice co	sts	(other th	an	
labor)	racts	3.	•	;	:			142,500 00 21,659 00 33,442 00 12,229 00
Grand total exper	ndit	ıres						\$3,806,395 00
1964 OPERAT	ING			LE 8		ITARY I	DIV	ISION
A								#3# 03C 00
Administrative Section	N							\$35,936 00
COLLECTION SECTION:						· · · 32,338,194	. 00	\$35,936 00
COLLECTION SECTION:					. 8	149,788	00	\$35,936 00
COLLECTION SECTION:			•			149,788 137	00	\$35,936 00
COLLECTION SECTION:		ls pape	ers			149,788 137 3,200	00 00 00	\$35,936 00
COLLECTION SECTION:		ls pape	ers			149,788 137	00 00 00 00	\$35,936 00
COLLECTION SECTION:		ls pape	ers		:	149,788 137 3,200 3,180	00 00 00 00 00	\$35,936 00
Collection Section: Collection contracts Supervision Inspectors telephon Advertisements in n Supplies and materi Rejected refuse  Alley cleaning		ls pape	ers		:	149,788 137 3,200 3,180 4,980 32,499,479 116,180	00 00 00 00 00 00	\$35,936 00
Collection Section: Collection contracts Supervision Inspectors telephone Advertisements in n Supplies and materi Rejected refuse  Alley cleaning Litter baskets		ls pape	ers	:	:	149,788 137 3,200 3,180 4,980 32,499,479 116,180 60,426	00 00 00 00 00 00	\$35,936 00
Collection Section: Collection contracts Supervision Inspectors telephon Advertisements in n Supplies and materi Rejected refuse  Alley cleaning Litter baskets Market cleaning		ls pape	ers		:	149,788 137 3,200 3,180 4,980 32,499,479 116,180 60,426 21,735	00 00 00 00 00 00 00 00	\$35,936 00
Collection Section: Collection contracts Supervision Inspectors telephone Advertisements in n Supplies and materi Rejected refuse  Alley cleaning Litter baskets	e cal lewsj als		ers			149,788 137 3,200 3,180 4,980 32,499,479 116,180 60,426	00 00 00 00 00 00 00 00 00	\$35,936 00
Collection Section: Collection contracts Supervision Inspectors telephone Advertisements in n Supplies and materi Rejected refuse  Alley cleaning Litter baskets Market cleaning Abandoned cars	e cal lews ials		·			149,788 137 3,200 3,180 4,980 52,499,479 116,180 60,426 21,735 19,450	00 00 00 00 00 00 00 00 00	\$35,936 00 2,828,650 00
Collection Section: Collection contracts Supervision Inspectors telephon Advertisements in n Supplies and materi Rejected refuse  Alley cleaning Litter baskets Market cleaning Abandoned cars Education and enforce	e cal lews ials		·			149,788 137 3,200 3,180 4,980 52,499,479 116,180 60,426 21,735 19,450 111,380	00 00 00 00 00 00 00 00 00 00 00 00 00	
Collection Section: Collection contracts Supervision Inspectors telephone Advertisements in n Supplies and materi Rejected refuse  Alley cleaning Litter baskets Market cleaning Abandoned cars Education and enforce Collection Section total DISPOSAL SECTION Incinerator	e cal newsjals		·			149,788 137 3,200 3,180 4,980 52,499,479 116,180 60,426 21,735 19,450 111,380 	00 00 00 00 00 00 00 00 00 00 00 00 00	
Collection Section: Collection contracts Supervision Inspectors telephone Advertisements in n Supplies and materi Rejected refuse  Alley cleaning Litter baskets Market cleaning Abandoned cars Education and enforce Collection Section total  DISPOSAL SECTION Incinerator Gardner street dump	e cal newsjals		·			149,788 137 3,200 3,180 4,980 22,499,479 116,180 60,426 21,735 19,450 111,380 	00 00 00 00 00 00 00 00 00 00 00 00 00	
Collection Section: Collection contracts Supervision Inspectors telephone Advertisements in n Supplies and materi Rejected refuse  Alley cleaning Litter baskets Market cleaning Abandoned cars Education and enforce Collection Section total DISPOSAL SECTION Incinerator	e cal newsjals					149,788 137 3,200 3,180 4,980 52,499,479 116,180 60,426 21,735 19,450 111,380 	00 00 00 00 00 00 00 00 00 00 00 00 00	
Collection Section: Collection contracts Supervision Inspectors telephone Advertisements in n Supplies and materi Rejected refuse  Alley cleaning Litter baskets Market cleaning Abandoned cars Education and enforce Collection Section total  DISPOSAL SECTION Incinerator Gardner street dump Garbage disposal	e cal aews als					149,788 3,200 3,180 4,980 52,499,479 116,180 60,426 21,735 111,380 	00 00 00 00 00 00 00 00 00 00 00 00 00	

## TABLE 9 1964 UNIT COSTS

(1)	Administrative	
	\$35,936	Less than 1 percent of total cost
(2)	Collection Contracts	
	\$2,499,479	
	236,341 tons a year	\$10 58 ton
(3)	Alley Cleaning	
	\$116,180	
	5,200 tons a year	\$22 33 ton
(4)	Litter Baskets	
	\$60,426	
	936 baskets	\$64 55 basket
	155,000 servicings	\$0 39 service
(5)	Market Cleaning	
	\$21,735	
	2,060 tons a year	\$10 55 ton
(6)	Abandoned Vehicles	
	\$19,450	
	2,834 cars	\$6 86 car
(7)	Education and Enforcement	
	\$111,380	Less than 3 percent of total cost
(8)	Incinerator	
	\$803,361	
	149,794 tons a year	\$5 36 ton
(9)	Gardner Street Dump	
	\$81,873	a
	69,847 tons a year	\$1 17 ton
4	338,824 cubic yards a year	\$0 24 cubic yard
(10)		
	\$30,375	40.00.1
	13,100 tons a year	\$2 32 ton
	65,493 cubic yards a year	\$0 46 cubic yard
(11)		
	\$26,200	20.00.1
	8,806 tons a year	\$2 98 ton
	26,418 cubic yards a year	\$0 99 cubic yard



## APPENDIX F

## SEWER DIVISION

Table 1—Expenditures Non-Revenue Sewerage Works

Table 2—Summary of Sewer Construction

Table 3—Five-Year Summary

Table 4—Length of Sewers

Table 5—Catch-Basin Statistics

Table 6—Maintenance Statistics

Table 7—Calf Pasture Pumping Station Statistics

# TABLE I SEWER DIVISION, P.W.D.

## SEWERAGE WORKS NON-REVENUE—EXPENDITURES FOR 1964

Office and engineers	sala	ries							\$167,360 81
Land damages									450 00
Miscellaneous bills	•	•						•	17,991 84
Service orders	•			•					10,585 90 852,628 67
Contracts	•	•	•	•	•	•	•	•	002,020 01
Total expenditu	ires								\$1 049 017 22

TABLE 2
SUMMARY OF SEWER CONSTRUCTION

District	Built by City Either by Contract or Day Labor	Built by Private Parties	Shared by City and Government	Total Lengt	ha Built
	Linear Feet	Linear Fest	Linear Feet	Linear Feet	Miles
City Proper	622.00	456.00		1,118.00	0.215
Roxbury	3,798.40			3,798.40	0.720
South Boston					
East Boston	12.00			12.00	0.002
Charlestown					
Brighton	1,489.40	466.40		1,955.80	0.372
West Roxbury	23,740.00	624.40		24,364.40	4.622
Dorchester	5,948.60	846.40		6,795.00	1.287
Hyde Park	4,163.10	356.00		4,519.10	0.857
Totals	39,813.50	2,749.20		42,562.70	8.075

TABLE 3
Summary of Sewer Construction for Five Years Previous to January 1, 1965

	1960	1961	1962	1963	1964
	Linear Feet				
Built by city—by contract or day labor	6,408	13,694.37	26,557.27	14,206.85	39,813.50
Built by private parties	735	2,876.85	3,937.56	2,428.97	2,749.20
Shared by city and government		7,904.30		2,430.00	
Totals	7,143	24,475.52	30,494.83	19,056.82	42,562 70

# TABLE 4 TOTAL LENGTH OF SEWERS

	Miles
Common sewers and surface drains built previous to January 1, 1964	1,347.160
January 1 and December 31, 1964	8.075
	1,355.235 0.630
	1,354.605
City of Boston intercepting sewers connecting with Metropolitan sewers to December 31, 1964 City of Boston main drainage intercepting sewers	0.0
to December 1, 1964	0.0
Grand total	1,354.605

TABLE 5
CATCH BASINS IN CHARGE OF SEWER DIVISION

		s for Twelve Mo December 31, 196		Total for W Charge of Se	hole City in wer Division
Districts	Number Built or Rebuilt	Number Abandoned or Removed	Net Increase	Previous Report thru December 31, 1963	Grand Total to December 31, 1964
City Proper	5	0	5	3,798	3,803
Roxbury	19	0	19	3,592	3,611
South Boston	0	0	0	1,522	1,522
East Boston	0	0	0	1,237	1,237
Charlestown	0	0	0	871	871
Brighton	0 0 0 871 2 0 2 2,156	2,158			
West Roxbury	66	0	66	4,790	4,856
Oorchester	4	0	4	5,804	5,808
Hyde Park	15	0	15	1,581	1,596
Totals	111	0	111	25,351	25,462

# TABLE 6 MAINTENANCE STATISTICS

	1964	1963	1962
Complaints received and investigated	6,480	3,235	2,891
Catch basins and manholes freed and/or repaired	308	1,042	2,403
Sewers repaired	29	34	36
Sewers cleaned (miles)	1.9	2.13	13.4
House drains constructed/repaired	700	499	445
Municipal liens reported to Collector	5,461	5,202	4,903

# TABLE 7 CALF PASTURE STATISTICS

	1964	1963	1962
Sewage pumped	42,765 MG	43,529 MG	63,276 MG
Sewage pumped average flow	117.16 MG	119.26 MG	173 MG
Pumping cost per MG	\$6.47	\$5.28	\$2.93

SEWERAGE WORKS CONTRACTS, 1964

	Amount Expended in 1964	\$7,424 09	10,390 20	269 88	38,890 53	14,873 99		78,854 40
	Character	12" ріре веwег	10" pipe sewer	10" minor drain	10" pipe sewer. 10" pipe surface drain. 12" pipe surface drain. 13 manholes 6 eacth Basins. 10" minor drains.	10" pipe sewer	12" pipe surface drain 15" sufface drain 24" pipe surface drain 6 manholes 2 catch basins 10" minor drain	12" pipe sever 12" pipe sever 12" pipe sever 12" pipe sever 13" and 12" pipe surface drain. 14" and 12" pipe surface drain. 16" minor drain 16" minor drain 18 manholes
3, 1904	Length in Feet	69.00	330.50 504.20 98.50	106.00	1,029.61 513.53 496.34.	474.90	74.30 77.80 482.90	627.80 67.40 687.70 1,599.70 543.00 372.00 126.00
SEWEKAUE WOKAS CONTRACTS, 1904	Contractor	E. Carriere	A. Musto	R. A. Buccella & Sons	Mystic Construction Company Inc.	R. A. Buccella & Sons		R. A. Buccella & Sons
SEWEKA	Finished	4-3-1964	5-05-1964	1-23-1964	5-19-1964	4-24-1964		5-22-1964
	Started	9-23-1963	11-04-1963	11-26-1963	3-16-1964	4-02-1964		4-14-1964
	Location	Broadway, Boston	Beaver street, Ilyde Park. Stoughton street, Dorchester	Beechmont street, Hyde Park	Crestwood park, Roxbury. Humboldt svenne, Roxbury. Townsend street, Roxbury	St. Alphonsus street, Roxbury	Tremont street, Roxbury	Hanook street, Dorchester. Pleisant street, Dorchester. Savin Hill avenue, Dorchester.

SEWERAGE WORKS CONTRACTS, 1964—Continued

Amount Expended in 1964	\$359,673 00	29,154 45	169,939 91	60,947 30	76,946 85
Character	12" pipe sewer. 15" pipe sewer 54" pipe sewer 60" pipe sewer 8 manholes 5 eskth basins	10" pipe sewer. 12" pipe surface drain 10" minor drain 9 manholes 2 catch basins	10" pipe sewe. 12" and 10" pipe sewer 12" and 10" pipe sewer 14" and 10" pipe surface drain 15" and 11" pipe surface drain 10" pipe surface drain 15" minor drain 15" manholes 15" manholes 15" ananholes	10" pipe sewer. 18" pipe serface drain 10" pipe surface drain 11" pipe surface drain 12" pipe surface drain 12" minor drain 12 cannot drain 11 catch basins	15" and 12" pipe sewer 24" pipe surface drain 10" minor drain 10 matholes 1 catch basin
Length in Feet	30.00 10.00 285.00 280.00	1,019.40 470.00 27.00	4,823.25 463.85 2,886.69 433.75 1,156.89 674.70 414.00	1,874.18 64.45 1,309.28 551.40 147.00	1,539.80 1,225.00 535.00
Contractor	Northgate Construction Company	6-22-1964   Charles & Louis	Z & S Construction Company	Charles & Louis	R. A. Buccella & Sons
Finished	1-08-1965	6-22-1964	8-28-1964	11-14-1964	10-14-1964
Started	5-12-1964	5-22-1964	6-04-1964	6-30-1964	8-18-1964
Location	Dalton street, Boston	Chestaut Hill avenue, Brighton Western avenue, Brighton Wiltshire road, Brighton	Blue Ledge Drive, West Roxbury. Blue Ledge tersae, West Roxbury. Higherest road, West Roxbury. Higherest ferrace, West Roxbury. June street, West Roxbury.	Woodley avenue, West Roxbury. Blueview Crief, West Roxbury. Blueview road, West Roxbury. Cederrest Circle, West Roxbury. Cederrest road, West Roxbury.	Boylston street, West Roxbury

76,481 25	45,730 60	24,387 31	\$22,447 70	18,232 74	21,951.50	4,918.15
48" and 12" pipe surface drain. 10" and 6" minor drain 11 manholes 11 catch basins 2 drop inlets	10" pipe sewer. 10" pipe surface drain 19 mahholes 13 cavch basins	10" pipe sewer 10" pipe surface drain 10" minor drain 13 manholes 4 catch basins	10° pipe sewer. 10° pipe surface drain 12° pipe surface drain 10° minor drain 6 manholes 8 each basins	12" pipe sewer. 36" pipe surface drain 3 manholes	12" pipe sewer. 24" pipe surface drain 10" minor drain 8 manholes 11 catch basins	10" pipe sewer. 10" pipe surface drain 2 manholes 2 catch basins
3,169.20	1,530.80	964.30 1,150.70 75.00	174.40 179.00 966.70 180.50	278.00	313.00 336.00 220.00	238.50 243.50 24.00
8-26-1964   11-19-1964   Susi & DeSantis	Charles & Louis	9-15-1964 11-07-1964 Roslindale Construction	R. A. Buccella & Sons	R. A. Buccella & Sons	Z. & S. Construction Company	Charles & Lewis
11-19-1964	10-23-1964	11-07-1964	12-07-1964	11-16-1964	Unfinished	11-27-1964
	9-02-1964	9-15-1964	10-19-1964	10-20-1964	10-20-1964	11–16–1964
Readville street, Hyde Park. Knight street, Hyde Park. Private land, Hyde Park.	Aghland street, Dorchester. Datamuse street, West Roxbury. Delhan, street, Hyde Fard. Delhan, street, Hyde Fard. Delhan, street, Roxbury. Ferrando read, West Roxbury. Hillis road, Hyde Fard. New Hars a street, West Roxbury. Unicids street, Dorchester.	Manning street West Roxbury Pleasant Valley Circle, West Roxbury	Itaaca street, Dorchester	First Village Outlet, West Roxbury 10-20-1964 George Wright Golf Course and Private land	Charlame street, Roxbury. Laurel street, Roxbury. Humboldt avenue, Roxbury. Sherman street, Roxbury. Bower street, Roxbury.	Furbush road, West Roxbury 11-16-1964 11-27-1964

	Amount Expended in 1964	\$37,940 00											
cluded	Character	18" and 10" pipe surface drain 10" minor drain 7 manholes 7 monholes	1 manh. 10/ pipe sewer. 10/ pipe sewer. 10/ pipe surface drain 2 manholes 2 catch basins	10" pipe sewer 1 manhole	10" pipe sewer 10" pipe surface drain 2 manholes 9 cerch beging	10" minor drain	10" pipe sewer 10" pipe surface drain	1 manhole	10" pipe sewer 10" pipe surface drain 3 manholes	15" pipe sewer (rebuilt) 2 manholes	10" pipe sewer 10" pipe surface drain 2 manholes	60" concrete pipe intercepter 432" x 68" eliptical conc. pipe	10" pipe sewer drain 10" pipe surface drain 10" mnor drain 1 manhole 2 catch basins
964—Con	Length in Feet	1,880.70	136.40 101.50 30.00	125.00	178.00 178.00	26.00	72.70		233.20	117.00	239.10 244.40	169.00 170.00	240.00 240.00 24.00
SEWERAGE WORKS CONTRACTS, 1964—Concluded	Contractor	R. A. Buccella & Sons	G. M. Real Estate Company	McCarthy	DeSantos & Pulgini, Inc.		Alexander Homes		Bradley Real Estate Company	Beacon Construction Company	E. Carriere	Perini Corporation	Finn McCarthy
AGE WO	Finished	Unfinished	7-15-1964	9-30-1964	12-03-1964		10-31-1964		10-23-1964	10-07-1964	10-27-1964	1-29-1964	4-28-1964
SEWER/	Started	11-24-1964	6-15-1964	9-28-1964	11-23-1964		10-26-1964		10-13-1964	9-24-1964	10-13-1964	11-28-1963	1-20-1964
	LOCATION	Maple street, West Roxbury	Tennis road, Dorchester	Hutchinson street, Dorchester	Prospect Circle, Hyde Park		Eldon street, West Roxbury		Soldiers Field road, Brighton	Cambridge street, Boston	Thorne street, Dorchester	Dalton street, Boston	Stearns road, West Roxbury

## APPENDIX G

## WATER DIVISION

Table 1—Receipts and Expenditures

Table 2—Meters and Connection Pieces

Table 3—Meters Junked

Table 4—Meters Repaired in Shop

Table 5—Meters Repaired in Service

Table 6—Length of Waterpipes

Table 7—Number of Hydrants

Table 8—Cost of Replacement of Mains

Table 9—Cost of Extensions

## TABLE 1

# 1964 WATER DIVISION RECEIPTS AND EXPENDITURES

Appropriation carried forwa	rd fr	om 1	963					\$184,934	<b>2</b> 8
Receipts: Water Rates and Service				\$10,					
Tax Titles, Water .	٠	•	•		118,	656	29	10,201,170	69
								\$10,386,104	97
Less 1963 Deficit								352,337	82
								\$10,033,767	15
1964 Expenditures:				00	000	1 7 4	70		
Water Division	•	•	•		208,				
Department Equipment	•		•		173,				
Pensions and Annuities	•	•	•	•	294,				
Pensions, State-Boston	•		•			636			
Collection Division .	•	•	•		196,				
Data Processing		•	•			499			
Public Works — Mainten	ance		a		214,	023	UU		
Public Works — Admini		tion	and		0.0	100	00		
Engineering	•		•			466			
Public Works — Highway		٠.			560,				
Metropolitan District Ass	essm	ient	•		315,	843		9,208,688	55
	,					0.44		\$825,078	60
Water Division carry fory	vard	to 1	165	\$	151,				
Equipment carry forward	to 1	965			94,	496	81	0.45 0.95	0.4
							_	245,837	84
Surplus								\$579,240	76

# TABLE 2 METERS AND CONNECTION PIECES

Number of meters in use December 31, 1964 on old services in use before January 1, 1908 Number of meters in use December 31, 1964 on new services	: :	50,899 33,746
Total meters (old and new services) in use December 31, 1964	: :	84,645 5,851
Total meters and connection pieces in service December 31, 1964		90,476
Meters on old services December 31, 1964	55,579 —1,171	
Meters applied on old services during 1964	54,408 +20	
Total meters on old services December 31, 1964		54,428
Number of meters in use December 31, 1964 on services installed since 1907 Balance of meters removed due to vacancy since $1964$	33,029 40	
Balance of meters replaced with connection pieces during 1964	32,989 3,097	
Meters applied on services (new) in 1964  Total meters on new services December 31, 1964	37,086	37,086
Number of connection pieces in use December 31, 1963 Balance of meters replaced with connection pieces during 1964	1,015 2,064	
Total connection pieces in service December 31, 1964	3,079	$\frac{3,079}{90,476}$

### TABLE 3 METERS JUNKED IN 1964

			Dia	METER I	n Inche	as		
Make	5 6	2 4	1	11/2	2	3	4	Total
Hersey	2,500							
Watch Dog	228	26	10					264
Total	2,728	26	10					2,764

## TABLE 4 METERS REPAIRED IN SHOP, 1964

			Dı	METER	IN INC	CHES			
Make	5/6	34	1	11/2	2	3	4	6	Total
Hersey	1,560	140	75	44	52	7	5	2	1,885

TABLE 5
METERS REPAIRED IN SERVICE

					_		_	
	Defaced Broken Clocks	Spindle Leaks	Coupling	New Trains	Broken Gears	Exami- nation	Repair	Total
January		6	2					11
February	H	14	2	67	:			24
March	61	14	61	23	:			20
April	es	15	က			:		21
May	ŭ	18	6	eo		:		35
June	4	20	4	9				34
July	П	16	63	12		:		31
August	:	13	61	7			:	17
September	7	23	9		:	:	1	32
October	က	40	ಣ	:	-	:		47
November	:	27		:	:		:	27
	7		-		4		4	22
Totals.	28	209	47	27	10		r3	321

Showing Length of Water Pipes and Connections Owned and Operated by Public Works Department, Water Division, Water Services, and Number of Valves in Same. December 31, 1964 TABLE 6

As a decrea and operated and op		ater	Servic	es, a	nv Di	liliber	010	alves	III Sall	water services, and jumper of valves in same, december 31, 1904	CHIDE	01, 170					
48   42   40   36   30   24   20   16   16   17   1434 534   896 611   63,156   11,345   6311   5496,								Ā	AMETER	OF PIPE IN	INCHES						
Sep.285   16,191   8,809   30,238   75,205   8,9475   108,193   311,010   1,872,924   445,617   1,434,834   896,611   63,156   1,345   6,311   5,496, 1   1,434,834   896,611   63,156   1,1345   6,311   5,496, 1   1,434,834   1,445,834   1,445,834   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,445,434   1,444,434   1,444,434   1,444,434   1,444,434   1,444,434   1,444,4		84	42	40	36	30	24	20	91	12	10	80	9	4	8	2	Total
11   12   12   13   13   13   13   13	Cength owned and operated December 31, 1963	56,285	16,191	8,809	30,238	75,205	39,675	108,193	381,010	1,872,924	445,617	1,434,834	896,611	63,156	11,345		5,496,404
11   15   16   11   13   113   12   12   12   16   17   16   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   18   14   14	Gate valves in same	26	4	řQ.	31	20	78	72	790	5,290	1,565	5,159			16	18	16,728
11   15   16   11   13   13   14   14   14   15   11   16   14   16   14   18   11   16   14   18   11   18   18   18   18   18	Air valves in same	09	-	10	35	113	00	533	105	65	1	20	:	:	=	:	538
dring comp.         26.286         31,756         324         18,218         603         12         27,7           18.504         18,218         603         12         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2         27,2	Blowoffs in same	11	10	9	11	33	37	52	22	166	40	203		:	6	:	791
Charles   Char	High pressure fire service	:	:	:	-	:	:	20,140	46,433	31,756	:		:	:	÷	:	98,329
1	Length laid and relaid during 1964	:		:		-	-			8,594	:	18,218			:	:	27,487
1   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   1   2   2	Gate valves in same	:	:	:	-	-	-	:	:	22	:	36		1	<u> </u>	:	65
10   10   10   10   10   10   10   10	Air valves in same	:		:	:	-	-	:	-		:		:		:	-	:
56.285         16.191         8,809         30.238         75.205         89.675         10.10         1,881,518         445,617         1,452,728         890,101         63,168         1,381,618         445,617         1,452,728         890,101         63,168         1,381,618         1,585         5,196         6,311         6,311         6,311         8,516         9,317         6,218         6,311         6,311         1,618         1,618         445,617         1,452,728         890,101         63,168         1,345         6,311         6,516         6,516         9,010         63,168         1,345         6,311         6,516         9,136         1,452         1,452,728         890,101         63,168         1,345         6,311         6,516         1,616         1,452,728         890,101         6,311         6,516         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616         1,616	Blowoffs in same	:		:	:	-	-		:					:	İ		
56.286         16.191         8,809         30.238         75,205         89.675         108.193         381,010         1,881,518         445,617         1,452,728         890,101         63.168         11,345         6,311         5,516           60         5         10         35         113         85         53         105         65         1         6         1         10         1,565         5,196         3,057         66.311         5,516         16         18         16         18         16         16         18         16         16         18         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16 <td< td=""><td>Length abandoned in 1964</td><td>:</td><td>:</td><td>:</td><td></td><td>-</td><td>-</td><td>-</td><td>:</td><td></td><td>:</td><td>324</td><td></td><td>:</td><td>-</td><td>:</td><td>7,497</td></td<>	Length abandoned in 1964	:	:	:		-	-	-	:		:	324		:	-	:	7,497
56.286         16.191         8,809         30.238         75,205         89.675         108.193         381,010         1,881,518         445,617         1,452,728         890,101         63.168         11,345         6,311         5,516           26         4         5         31         50         78         72         790         5,310         1,565         5,196         3,057         562         16         18         16           60         5         10         35         113         85         53         105         65         1         6         1         6         1         1         6         1         6         1         6         1         6         1         6         1         6         1         6         1         6         1         6         1         6         1         9         98	Gates abandoned in 1964	:	:	:	:	:		:	:	2				:	:	:	14
56.286         16.191         8,809         30.238         75,205         89.675         108.193         381,010         1,881,518         445,617         1,452,728         890,101         63.168         11,345         6,311         5,516           26         4         5         31         50         78         72         790         5,310         1,565         5,106         3,657         662         16         18         16           60         5         10         35         113         85         53         105         65         1         6         1         6         1         6         1         6         1         6         1         6         1         6         1         6         1         6         1         9         98	Air valves abandoned in 1964	:	:	:	:	:	-	-	-		:		:	<u>:</u>	-		
56.286         16.191         8,809         30.238         75,205         89.675         108.193         381,010         1,881,518         445,617         1,452,728         890,101         63,168         11,345         6,311         5,516           26         4         5         31         50         78         72         790         5,310         1,565         5,106         3,657         662         16         18         16           60         5         10         35         113         85         53         105         65         1         6          1          141         9          9          9          9           9          9           9          9           9          9	Blowoffs abandoned in 1964	:	:			-	-	:	:		:			<u>:</u>	:	-	
26 4 5 31 50 78 77 790 5,310 1,565 5,195 3,037 562 16 18 16 18 10 6 6 11 33 37 72 790 6,430 1,565 5,195 3,037 562 16 18 16 18 16 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Length owned and operated, including high pressure fire service, Decem- ber 31, 1964	56,285	16,191		30,238	75,205	89,675	108,193	381,010	1,881,518	445,617	1,452,728	890,101	63,168	11,345	6,311	5,516,394
60   5   10   35   113   85   53   105   65   1   6   11   6   11   83   87   77   166   40   203   141   9   98   98	Gate valves in same	26		10	31	20	78	72	790	5,310						18	16,779
11 5 6 11 33 37 75 166 40 203 141 9 9 98 8 8 98 8 98 8 98 8 98 8 98 98 98	Air valves in same	09				113	85	53	105	65	-		:	:	1	-	538
20,140 46,433 31,756	Blowoffs in same	11			11	33	37	52	77	166				:	6	-	791
	High pressure fire service			:	:	:	-	20,140	46,433	31,756	:	:		:	:	:	98,329
The same and the s			7 7 7	TO THE PARTY OF	THE PERSON NAMED IN		ON OFFICE ASSESSMENT	The Case of	to de parties	Dragoniro	TO DOLL						

1,044.71 miles in distribution system, including high pressure fire service. 18.62 miles in high pressure fire service.

TABLE 7
TOTAL NUMBER OF HYDRANTS IN SYSTEM, DECEMBER 31, 1964

Hydrants	Lowry	Boston Lowry	Boston Post	Ordinary Post	Batchelder and Finneran	Ludlow Post	Chapman Post	Boston Hydrant	Mueller Post	A. P. Smith	Darling Post	Matthews Post	Total
Public, December 31, 1963	407	240	1,925	1,835	6,750	2	_	67	175	227	33	_	11,661
Private, December 31, 1963	33	5	29	126	17	13	56	111	-	-		4	394
Added 1964	_	_	_	_	10	_	_	_	98	29	2		139
Abandoned 1964	1	_	2	65	28	_	_	_	_	2			98
Total public, December 31, 1964	406	240	1,923	1,770	6,732	2		67	273	254	35	_	11,702
Total private, December 31, 1964	33	5	29	126	17	13	56	111		_	-	4	394

Total hydrants in service, December 31, 1963 .								12,089
Total hydrants added during 1964		•	•					139
Total hydrants abandoned during 1964 Total hydrants in service, December 31, 1964.	•	•	•	•	•	•	•	98 12 130
High pressure fire hydrants in service, 1964	:	:			:	:	:	435
Total hydrants (all kinds) in service, December 3	1, 1	964						12,565

TABLE 8
COST OF REPLACEMENT OF MAIN PIPE. 1964

	Contractor		Z & S Construction Co., Inc.	A. Singarella & Sons, Inc.	City Forces	R. A. Buccella & Sons, Inc.									
1904	Total Cost		\$7,951 46	2,007 20	130 00	18,615 74	11,002 26		19,742 58	9,745 73	13,605 02		19,799 56	14,205 75	\$116,805 30
COSI OF REPLACEMENT OF MAIN PIPE, 1904	ENOINEERINO AND INSPECTION COSTS		\$722 86	463 20	30 00	1,692 34	1,000 21		1,794 78	882 98	1,236 82		1,799 96	1,291 43	\$73,917 58
MENI OF	CONTRACT		\$7,228 60	1,544 00	100 00	16,923 40	10,002 05		17,947 80	8,859 75	12,368 20		17,999 60	12,914 32	\$105,887 72
. KEPLACE	Lenoth (Feet)	787	20	193	ğ	1,169	664	1,142	B	627	836	1,134	10	650	7,252
cost of	S17E (INCHES)	6 W 8	8 W 8	6 W 8	10 W 10	6 W 8	8 M 9	6 W 8	6 W 12	6 W 8	8 M 9	6 W 8	6 W 12	6 W 12	
	Street	Charlame street	Charlame street	Gardner street	K street	Tuttle street	Harley street	East Third street	East Third street	Woodward street	Middle street	East Second street	East Second street	East Sixth street	Total
	Drsr- riet	10	10	1	2	eo	က	2	10	rO.	10	9	10	2	
	Авеа	1	1	87	co	co	es	es	es	က	60	es	က	3	

TABLE 9
COST OF EXTENSION OF MAIN PIPE, 1964

	Contractor	City Forces	Mystic Contracting Co., Inc.	Roslindale Contracting Co.	Z & S Construction Co., Inc.	Z & S Construction Co., Inc.	C. Jiustino Co. X & S Construction Co., Inc.		C. Jiustino Co.	Z & S Construction Co., Inc. C. Jiustino Co. Z & S Construction Co., Inc.	C. Jinstino Co. (Z & S Construction Co., Inc.	C. Jinstino Co. Z & S Construction Co., Inc.	Charles & Louis Construction Co., Inc.	Charles & Louis Construction Co., Inc.	Charles & Louis Construction Co., Inc.	E. Susi & Williams Corp.	R. A. Buccella & Sons, Inc.	R. A. Buccella & Sons, Inc.	
964	Total Cost		\$7,288 27	9,232 55	4,940 23	3,338 56	3,446 20	I	41,833 94	5,853 33	4,102 67	14,816 03	6,975 57	7,872 17	11,329 71	18,233 04	1,302 00	2,384 03	
OF EXTENSION OF MAIN PIPE, 1964	Engineering and Inspection Costs	1	\$347 09	439 65	425 73	158 98	164 10	1	1,992 09	278 73	195 37	705 53	332 17	374 87	539 51	868 24	62 00	113 53	
ON OF MA	Contract	I	\$6,941 18	8,792 90	4,514 50	3.179 58	3,282 10	1	39,841 85	5,574 60	3,907 30	14,110 50	6,643 40	7.497 30	10,790 20	17,364 80	1,240 00	2,270 50	
F EXTENS	Length (Feet)	20	510	764	340	219	351	842	2,408	423	436	1,183	546	404	551	1,384	155	226	
COST 0	Size (Inches)	00	00	00	00	90	00	12	00	12	00	00	00	12	12	12	9	00	
	Street	Boylston street	Crestwood park	Lawn and Palermo avenues	Charlame street	Stearns road	Blue Ledge terrace	Blue Ledge Drive	Blue Ledge Drive	June street	Highcrest terrace	Higherest road.	Cedarcrest Circle	Cedarcrest road	Blueview road	Vine street, etc	Imbaro road	Cataumet street	
	Area District	-	10	6	10	9	9	9	9	9	9	9	9	9	9	9	00	63	
	Area	-	1	1	1	63	73	73	63	7	23	61	87	7	23	63	63	cs .	

R. A. Buccella & Sons, Inc.	R. A. Buccella & Sons, Inc.	R. A. Buccella & Sons, Inc.		A, Singarella & Sons, Inc.	Roslindale Contracting Co.	James Paul Construction Co. (Pav- ing Contract).	R. A. Buccella & Sons, Inc.	Charles & Louis Construction Co., Inc.	Roslindale Contracting Co.	R. A. Buccella & Sons, Inc.	R. A. Buccella & Sons, Inc.	Charles & Louis Construction Co., Inc.	Charles & Louis Construction Co., Inc.	C, Jiustino Co.	C. Jiustino Co.	C. Jiustino Co.	C. Jiustino Co.	C. Jiustino Co.	R. A. Buccella & Sons, Inc.	R. A. Buccella & Sons, Inc.	J. Botti Co. (Agreement)	Z & S Construction Co., Inc.	
2,543 21	1,512 42	2,919 53	1	20,234 34	4,946 93	368 00	1,090 16	2,647 05	6,945 75	69 066'9	2,040 52	3,497 60	8,119 02	2,518 22	23,033 33	55,624 80	5,689 74	6,859 12	3,751 33	1,334 66	840 00	1,384 42	\$307,839 14
121 111	72 02	139 03	1	963 54	235 57	368 00	51 91	126 05	330 75	332 89	97 17	166 55	386 62	119 92	1,096 83	2,648 80	270 94	326 62	178 63	63 56	40 00	65 92	\$15,200 02
2,422 10	1,440 40	2,780 50	1	19,270 80	4,711 36	1	1,038 25	2,521 00	6,615 00	6,657 80	1,943 35	3,331 05	7,732 40	2,398 30	21,936 50	52,976 00	5,418 80	6,532 50	3,572 70	1,271 10	800 00	1,318 50	\$292,639 12
240	160	277	2,151	11	391	457	101	250	547	869	183	257	339	161	973	2,684	334	381	297	108	130	141	22,033
9	9	00	00	4	00	12	00	00	00	00	00	00	00	12	12	12	12	12	œ	9	œ	00	
Hillis road.	Delore Circle	New Haven street	Gardner Street Dump	Gardner Street Dump	Manning street	Beechmont Footway	Eldon street	Thorn street	Pleasant Valley Circle	Soldiers Field road	Schubert street	Furbush road	Blueview Circle	Alwin street	Dedham Parkway	Stony Brook Reservation	Cedarcrest Lane	Cedarcrest road	Delhi street	Hutchinson street	Tennis road	New Laurel street	Totals
00	9	9	1	1	67	9	9	00	9	41	9	9	9	00	00	00	9	9	7	ಣ	7	10	
73	2	2	2	2	2	63	23	63	2	2	23	2	73	63	23	2	2	2	ಣ	ಜ	33		

CITY OF BOSTON
PRINTING SECTION











